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 Data File : VN087563.D
 Acq On : 14 Aug 2025 14:14
 Operator : JC\MD
 Sample : Q2838-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

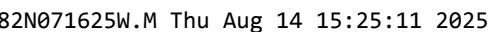
Instrument :
 MSVOA_N
 ClientSampleId :

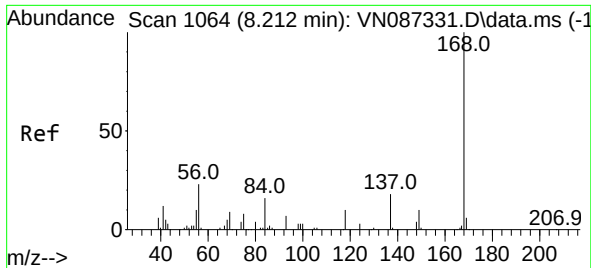
Quant Time: Aug 14 15:25:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.212	168	224842	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	507918	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	489215	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	221171	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	218641	57.310	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.620%
35) Dibromofluoromethane	8.153	113	160097	45.695	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.380%
50) Toluene-d8	10.547	98	587894	47.040	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.080%
62) 4-Bromofluorobenzene	12.829	95	209709	45.418	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	90.840%
Target Compounds						Qvalue
5) Bromomethane	2.989	94	475	0.307	ug/l	# 78
11) Tert butyl alcohol	5.530	59	298	0.411	ug/l	# 72
13) Acrolein	4.177	56	561	0.965	ug/l	# 77
16) Acetone	4.424	43	65693	36.725	ug/l	95
18) Methyl Acetate	5.018	43	46294	10.301	ug/l	98
20) Methylene Chloride	5.271	84	23296	7.155	ug/l	# 94
25) 2-Butanone	7.483	43	12566	4.547	ug/l	99
29) Tetrahydrofuran	7.835	42	2395	1.334	ug/l	# 58
31) Cyclohexane	8.200	56	8026	1.711	ug/l	# 56
36) 1,1-Dichloropropene	8.212	75	22805	4.927	ug/l	# 50
37) Ethyl Acetate	7.553	43	33005	4.937	ug/l	98
38) Carbon Tetrachloride	8.206	117	26998	5.295	ug/l	# 14
43) Isopropyl Acetate	8.677	43	20405	1.966	ug/l	# 93
45) 1,2-Dichloropropane	9.724	63	2295	0.604	ug/l	# 41
48) Methyl methacrylate	9.729	41	182347	39.030	ug/l	# 46
49) 1,4-Dioxane	9.729	88	276	3.857	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.441	43	9601	1.463	ug/l	95
54) cis-1,3-Dichloropropene	10.341	75	83046	13.857	ug/l	# 74
56) Ethyl methacrylate	10.753	69	108	0.653	ug/l	# 24
57) 1,3-Dichloropropane	11.188	76	6159	0.968	ug/l	# 42
59) 2-Hexanone	11.188	43	105244	24.168	ug/l	# 46
76) 1,2,3-Trichloropropane	12.829	75	126549	25.516	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.829	75	126549	69.816	ug/l	# 8
85) sec-Butylbenzene	13.594	105	4225	0.283	ug/l	86
90) Hexachloroethane	14.317	117	2023	0.799	ug/l	# 17

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

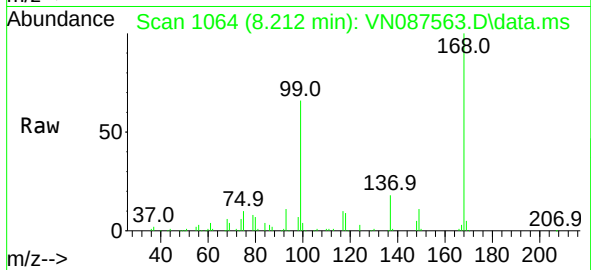
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



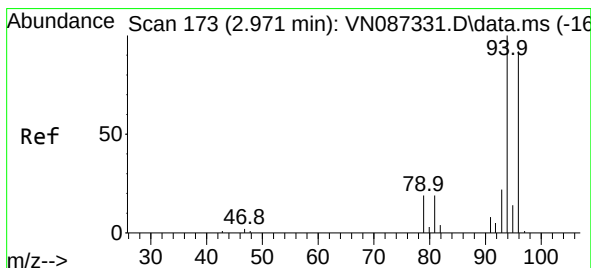
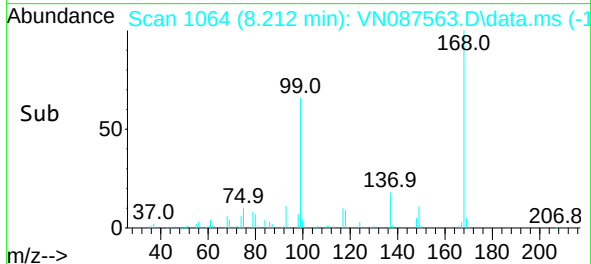
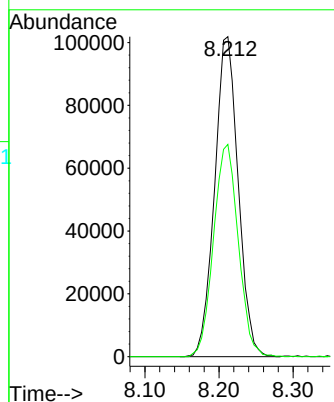


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

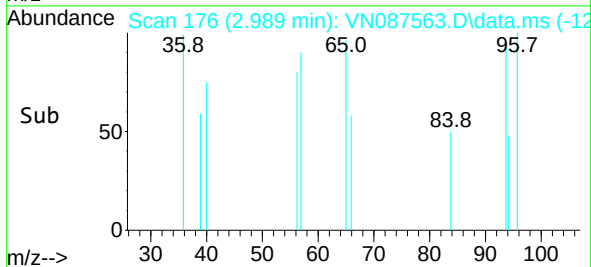
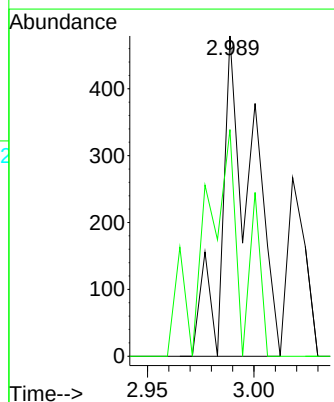
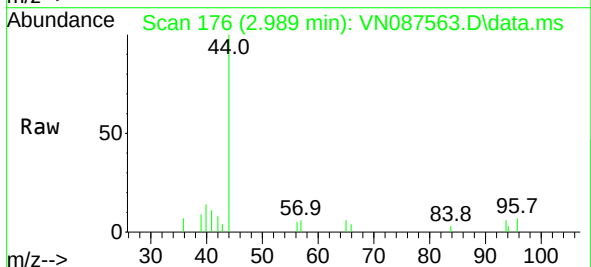


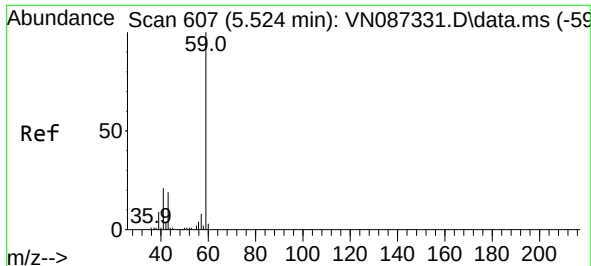
Tgt Ion:168 Resp: 224842
Ion Ratio Lower Upper
168 100
99 66.4 47.9 71.9



#5
Bromomethane
Concen: 0.307 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

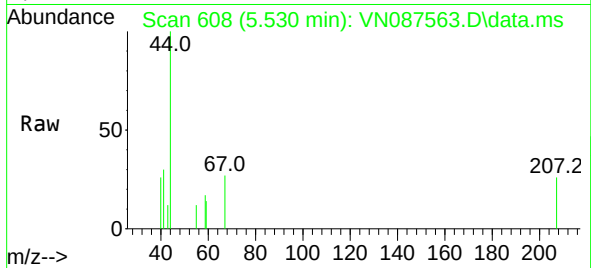
Tgt Ion: 94 Resp: 475
Ion Ratio Lower Upper
94 100
96 70.8 73.4 110.2#



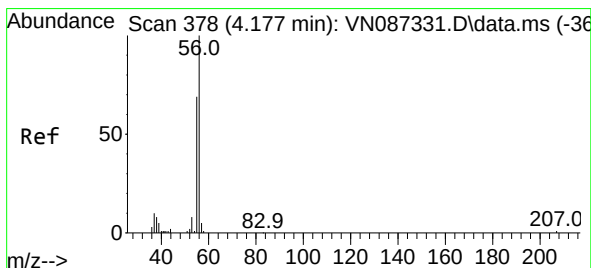
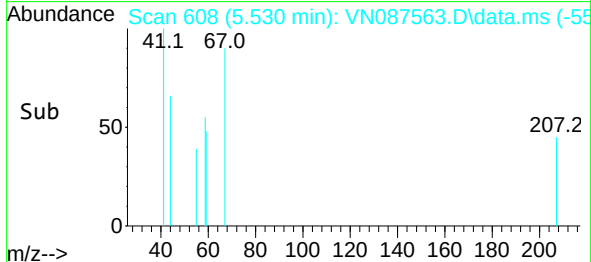
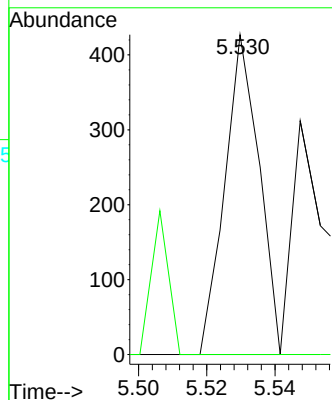


#11
Tert butyl alcohol
Concen: 0.411 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

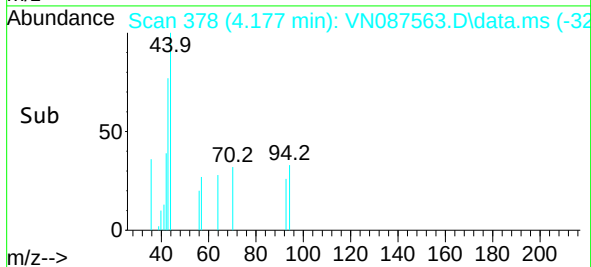
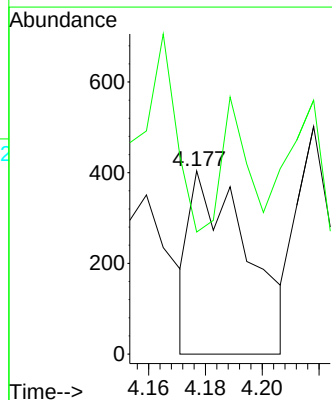
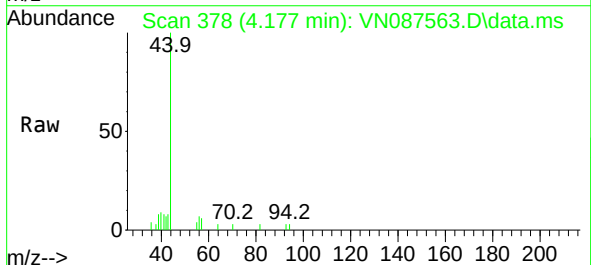


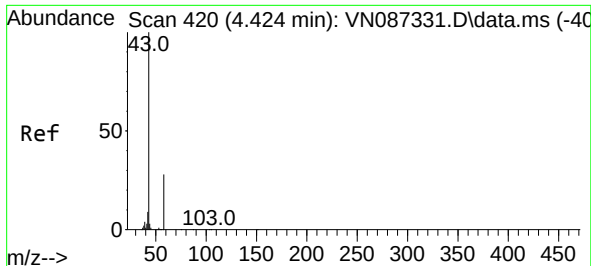
Tgt Ion: 59 Resp: 298
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.965 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Tgt Ion: 56 Resp: 561
Ion Ratio Lower Upper
56 100
55 51.7 56.2 84.4#

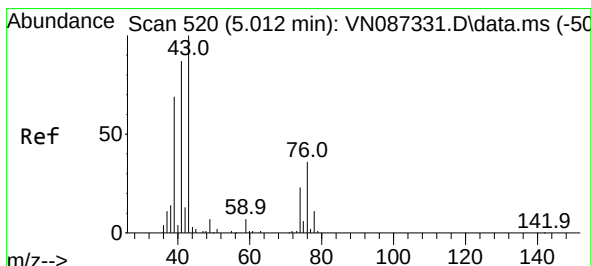
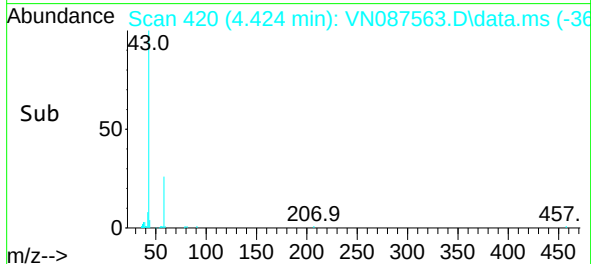
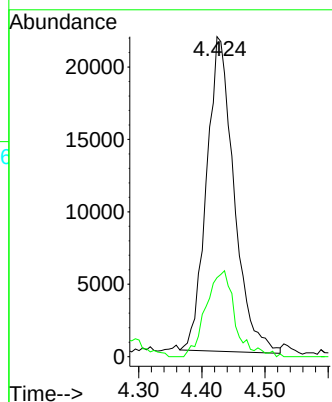
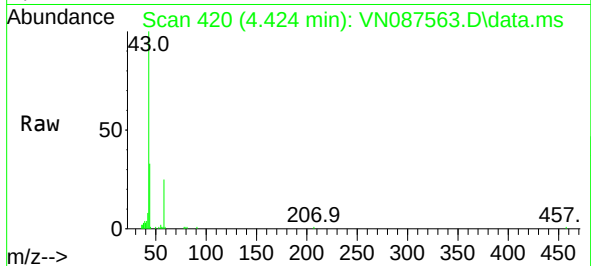




#16
Acetone
Concen: 36.725 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

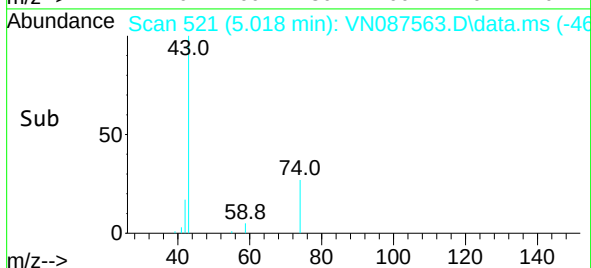
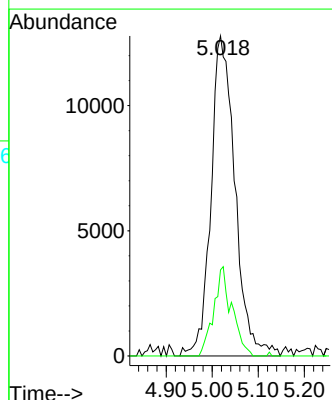
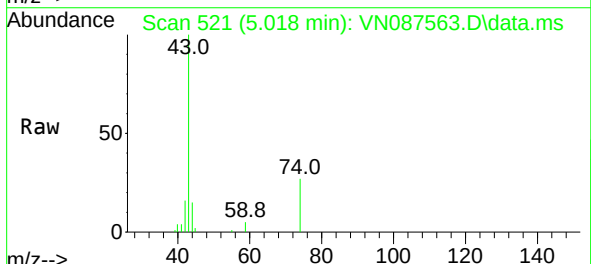
Instrument :
MSVOA_N
ClientSampleId :

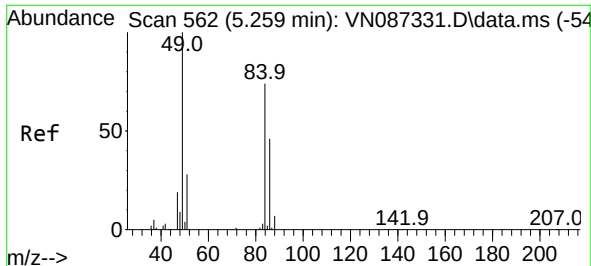
Tgt Ion: 43 Resp: 65693
Ion Ratio Lower Upper
43 100
58 25.2 22.3 33.5



#18
Methyl Acetate
Concen: 10.301 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

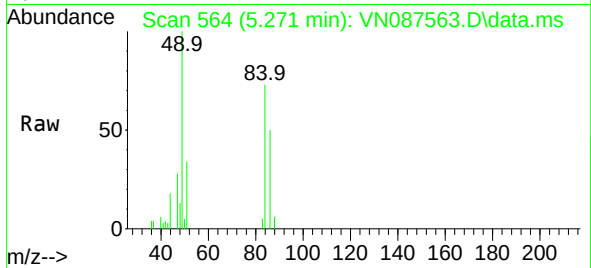
Tgt Ion: 43 Resp: 46294
Ion Ratio Lower Upper
43 100
74 21.1 17.8 26.6



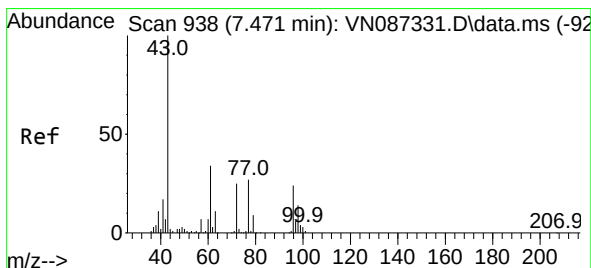
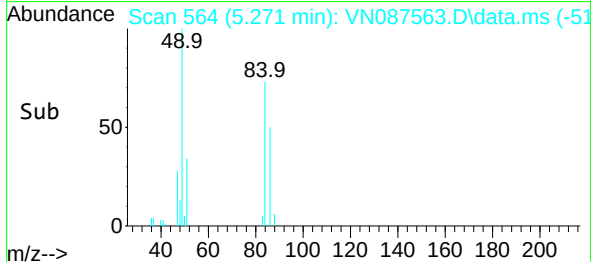
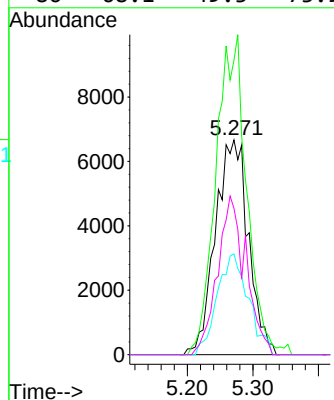


#20
Methylene Chloride
Concen: 7.155 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

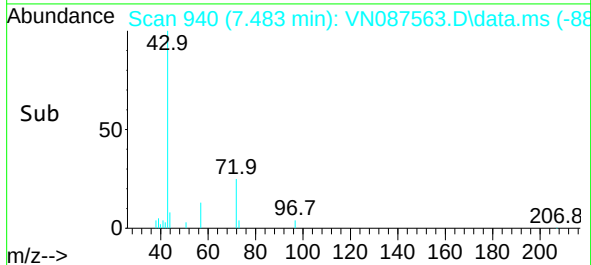
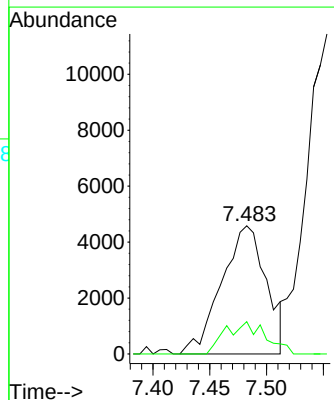
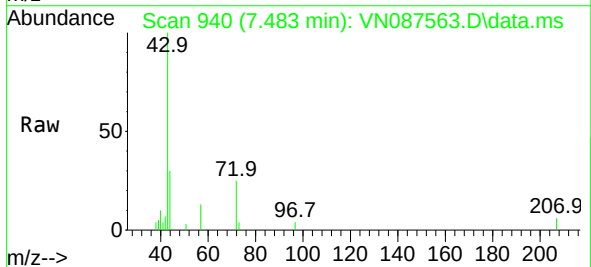


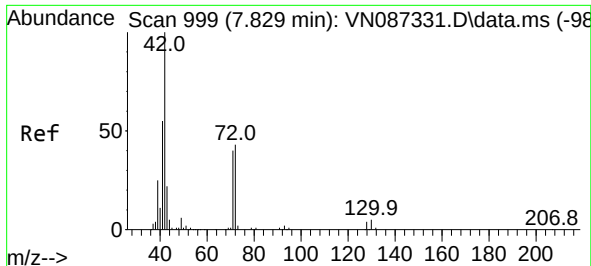
Tgt Ion:	84	Resp:	23296
Ion	Ratio	Lower	Upper
84	100		
49	137.1	107.5	161.3
51	47.0	30.2	45.2#
86	68.1	49.3	73.9



#25
2-Butanone
Concen: 4.547 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

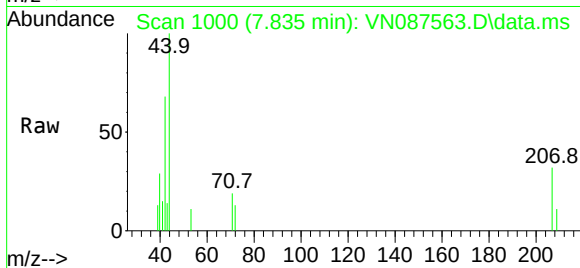
Tgt Ion:	43	Resp:	12566
Ion	Ratio	Lower	Upper
43	100		
72	25.2	19.6	29.4



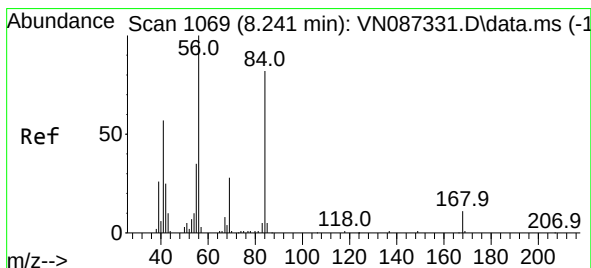
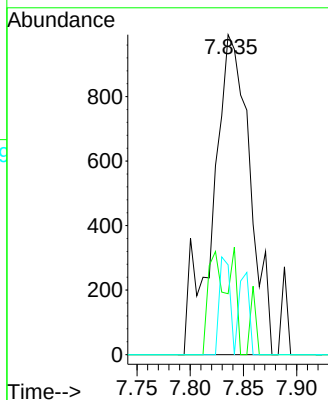
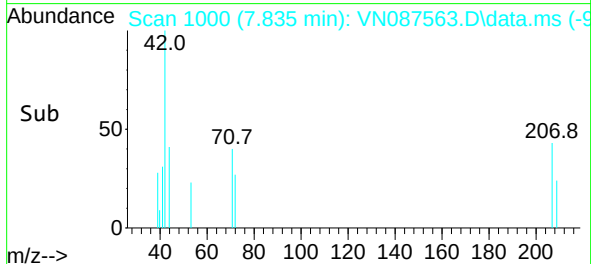


#29
Tetrahydrofuran
Concen: 1.334 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

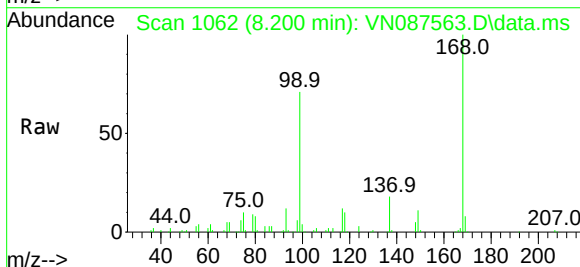
Instrument :
MSVOA_N
ClientSampleId :



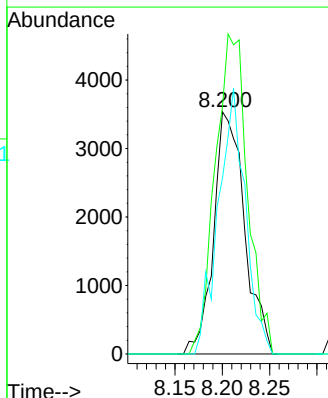
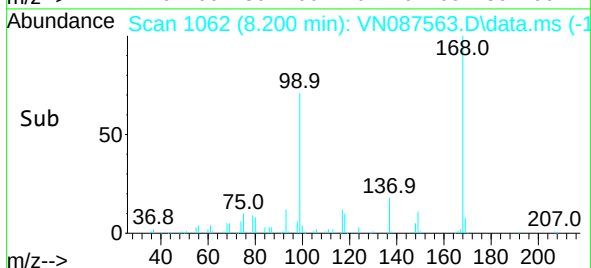
Tgt Ion: 42 Resp: 2395
Ion Ratio Lower Upper
42 100
72 19.3 33.4 50.0#
71 8.6 31.2 46.8#

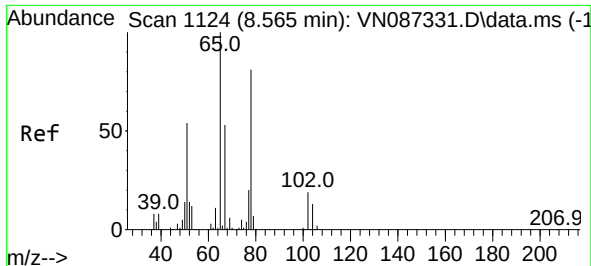


#31
Cyclohexane
Concen: 1.711 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.041 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14



Tgt Ion: 56 Resp: 8026
Ion Ratio Lower Upper
56 100
69 102.1 22.7 34.1#
84 72.7 65.8 98.6





#33

1,2-Dichloroethane-d4

Concen: 57.310 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087563.D

Acq: 14 Aug 2025 14:14

Instrument :

MSVOA_N

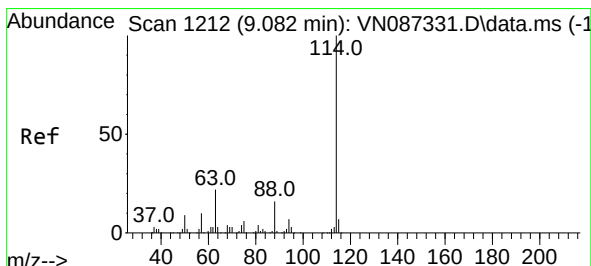
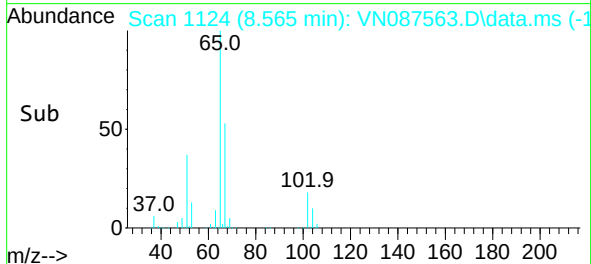
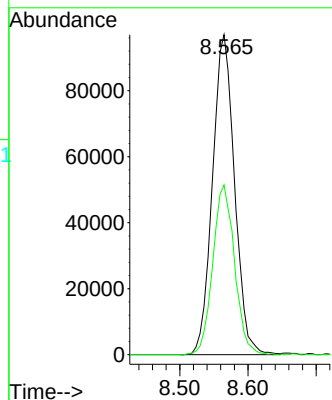
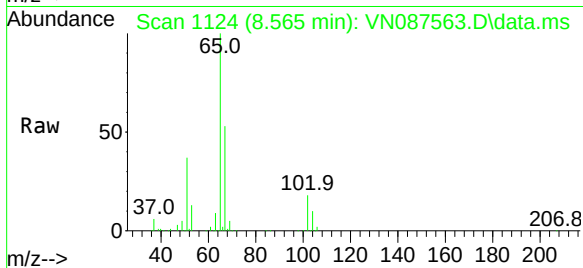
ClientSampleId :

Tgt Ion: 65 Resp: 218641

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087563.D

Acq: 14 Aug 2025 14:14

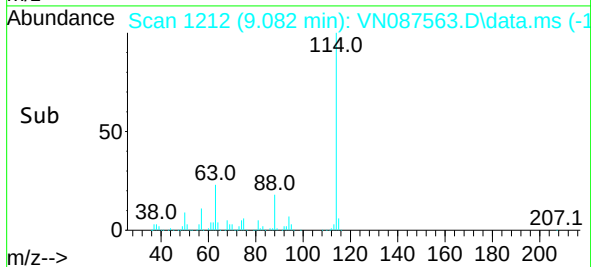
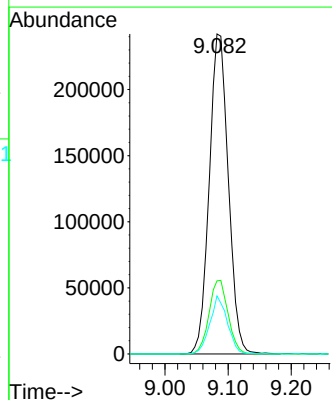
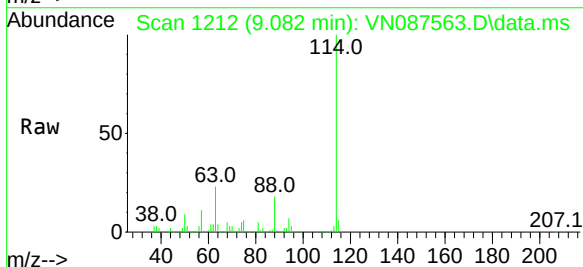
Tgt Ion: 114 Resp: 507918

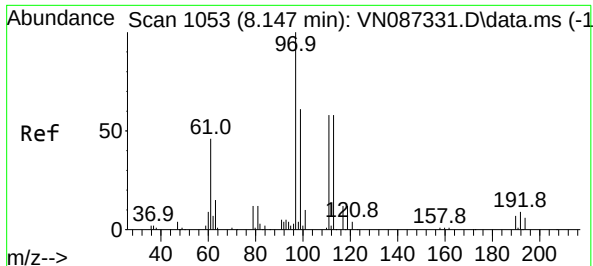
Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 18.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 45.695 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

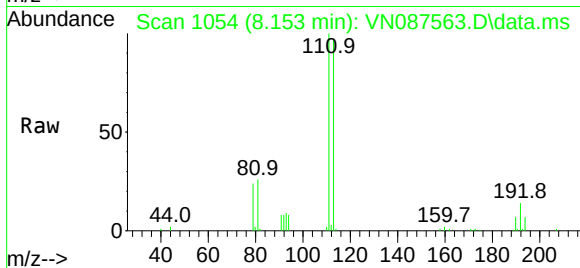
Lab File: VN087563.D

Acq: 14 Aug 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :



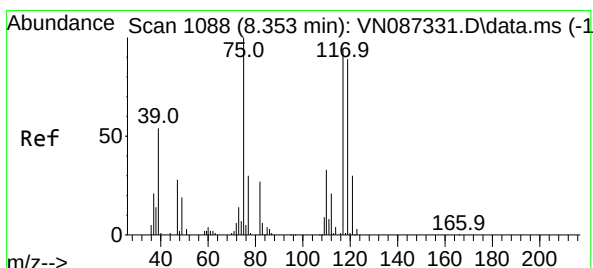
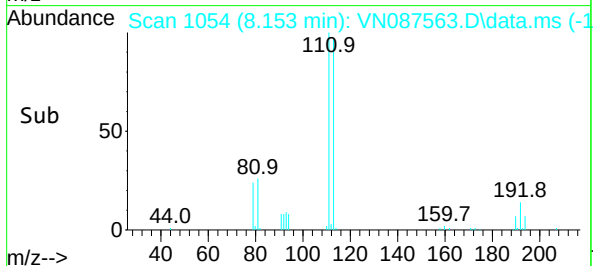
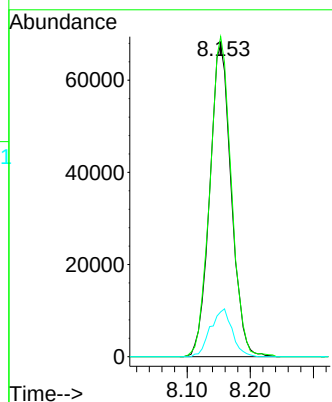
Tgt Ion:113 Resp: 160097

Ion Ratio Lower Upper

113 100

111 102.4 82.5 123.7

192 15.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.927 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087563.D

Acq: 14 Aug 2025 14:14

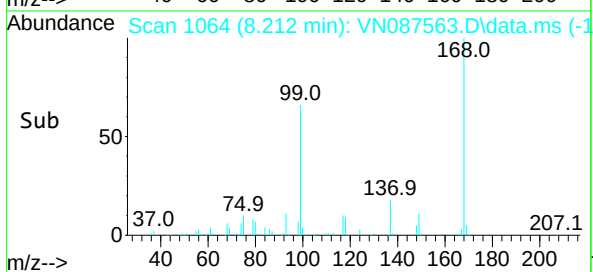
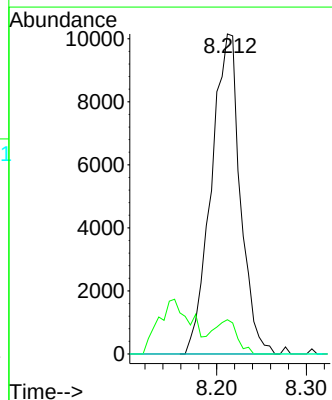
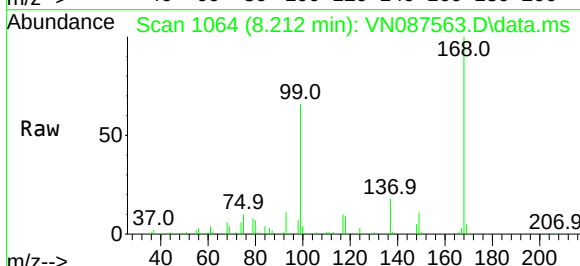
Tgt Ion: 75 Resp: 22805

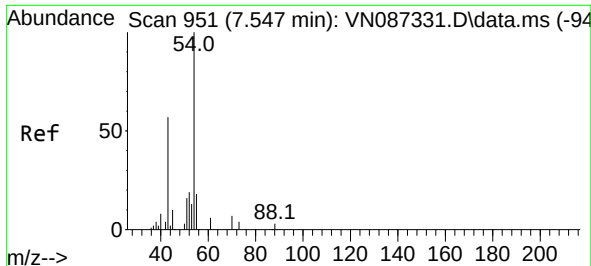
Ion Ratio Lower Upper

75 100

110 8.5 16.7 50.1#

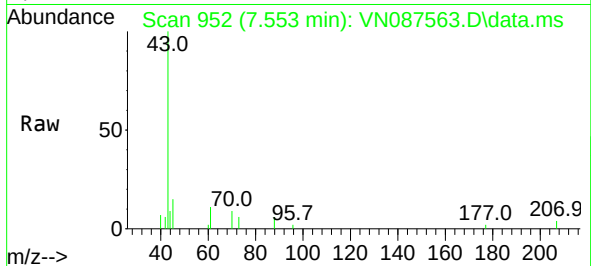
77 0.0 25.2 37.8#



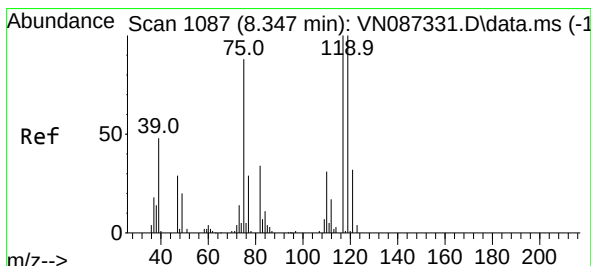
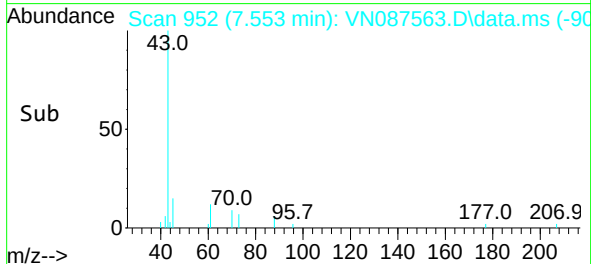
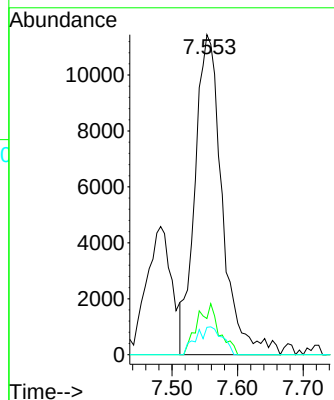


#37
Ethyl Acetate
Concen: 4.937 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

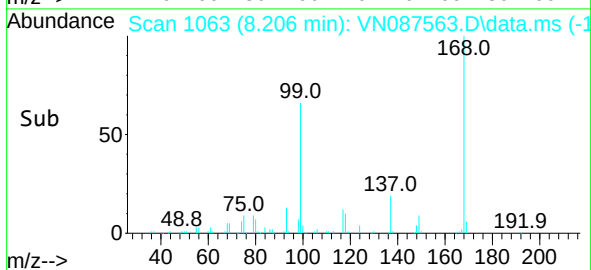
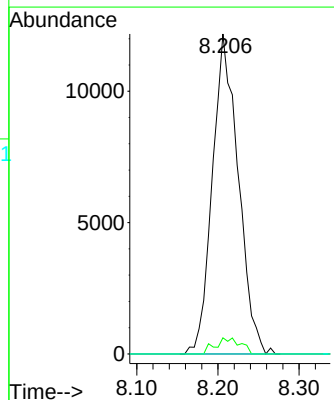
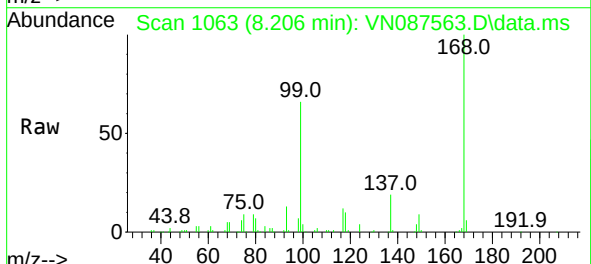


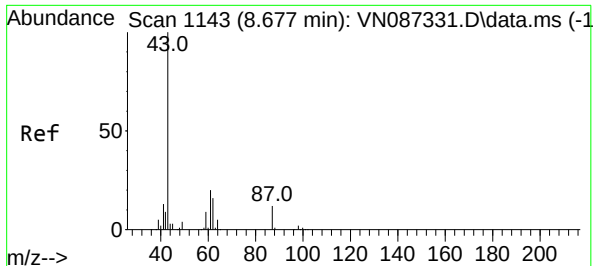
Tgt Ion: 43 Resp: 33005
Ion Ratio Lower Upper
43 100
61 12.8 10.9 16.3
70 8.4 7.4 11.0



#38
Carbon Tetrachloride
Concen: 5.295 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

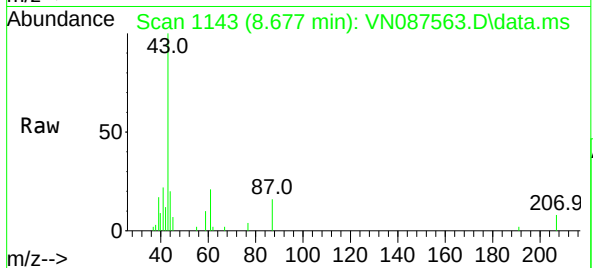
Tgt Ion: 117 Resp: 26998
Ion Ratio Lower Upper
117 100
119 5.0 80.2 120.2#
121 0.0 25.4 38.2#



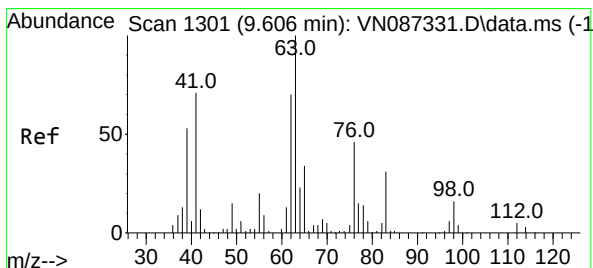
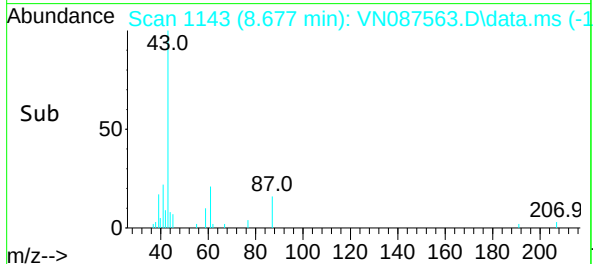
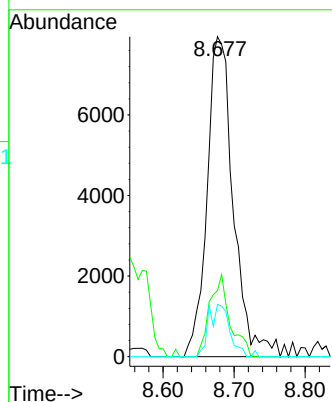


#43
Isopropyl Acetate
Concen: 1.966 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

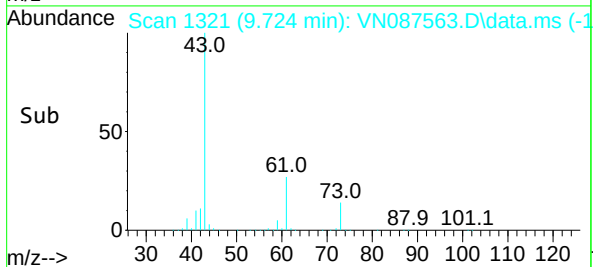
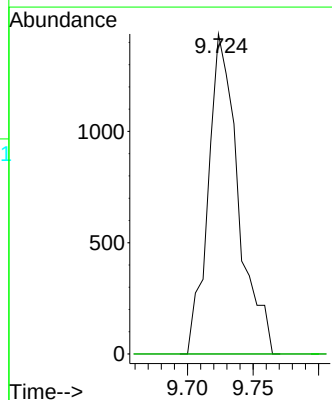
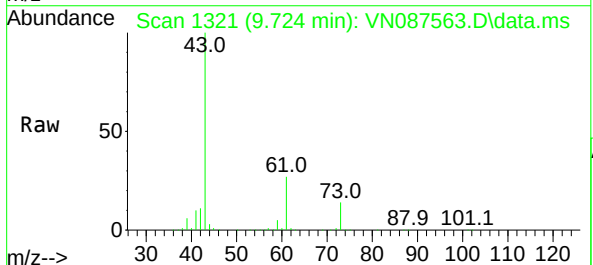


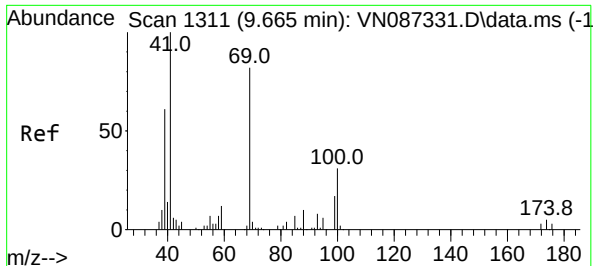
Tgt Ion: 43 Resp: 20405
Ion Ratio Lower Upper
43 100
61 19.8 19.8 29.8#
87 12.9 9.8 14.6



#45
1,2-Dichloropropane
Concen: 0.604 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.118 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Tgt Ion: 63 Resp: 2295
Ion Ratio Lower Upper
63 100
65 0.0 27.0 40.4#





#48

Methyl methacrylate

Concen: 39.030 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.065 min

Lab File: VN087563.D

Acq: 14 Aug 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

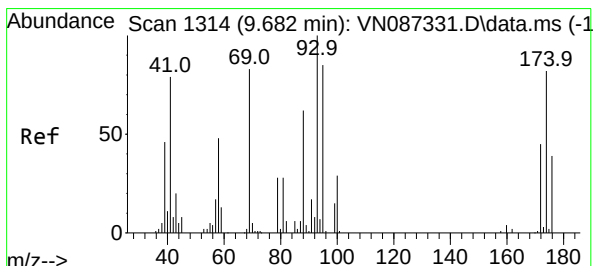
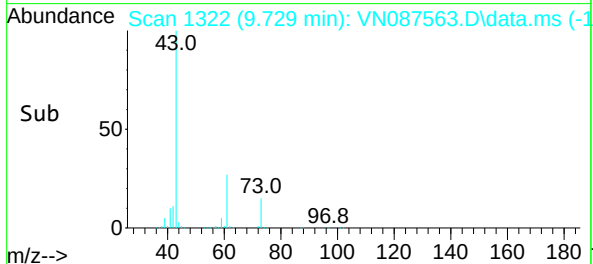
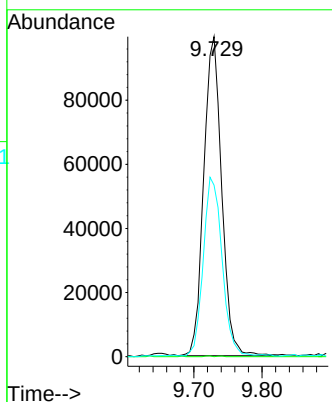
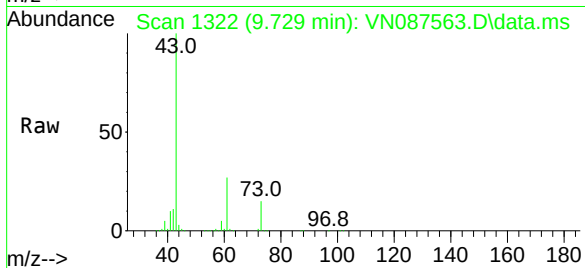
Tgt Ion: 41 Resp: 182347

Ion Ratio Lower Upper

41 100

69 0.1 64.1 96.1#

39 58.3 45.5 68.3



#49

1,4-Dioxane

Concen: 3.857 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.047 min

Lab File: VN087563.D

Acq: 14 Aug 2025 14:14

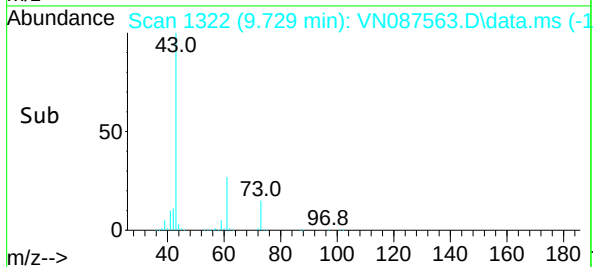
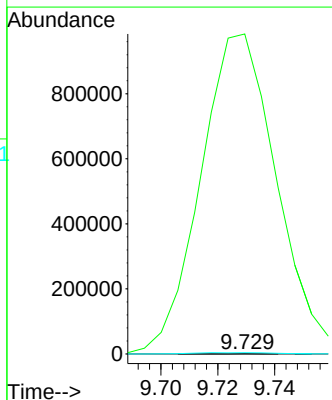
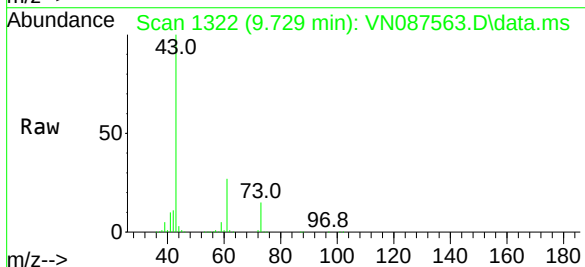
Tgt Ion: 88 Resp: 276

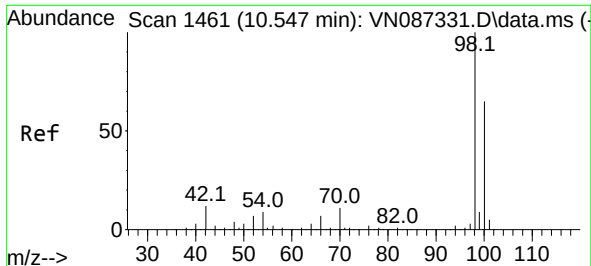
Ion Ratio Lower Upper

88 100

43 673892.0 0.0 0.0#

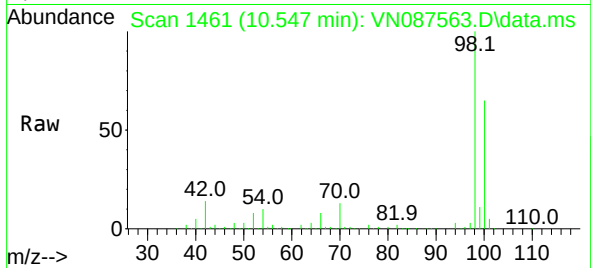
58 2973.6 61.1 91.7#



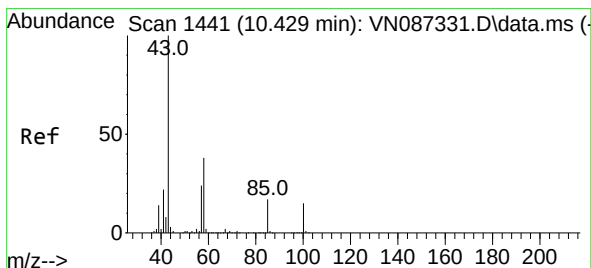
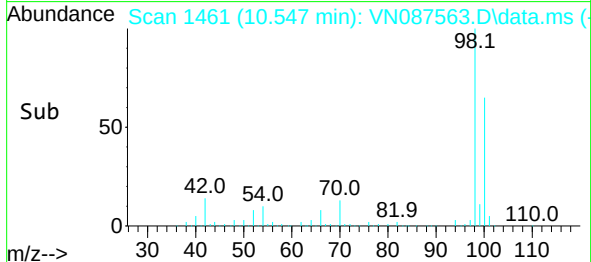
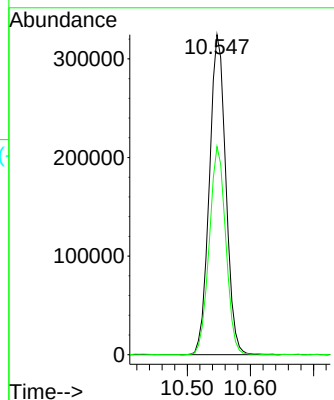


#50
Toluene-d8
Concen: 47.040 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

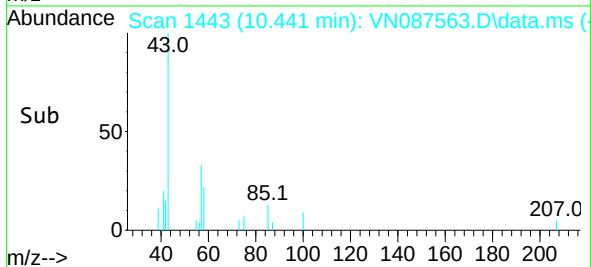
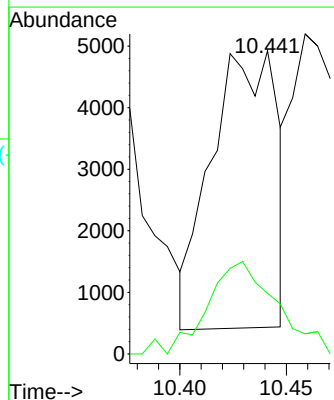
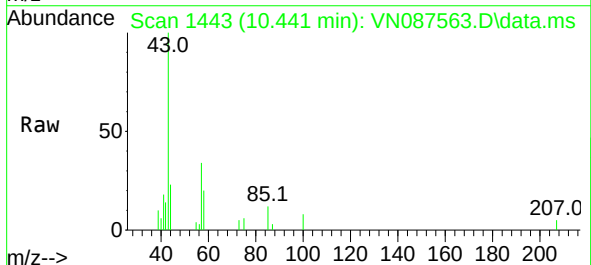


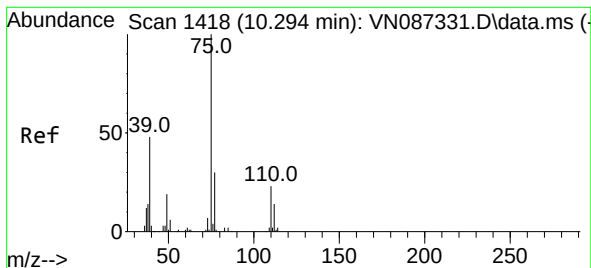
Tgt Ion: 98 Resp: 587894
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.463 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.012 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Tgt Ion: 43 Resp: 9601
Ion Ratio Lower Upper
43 100
58 35.6 30.8 46.2

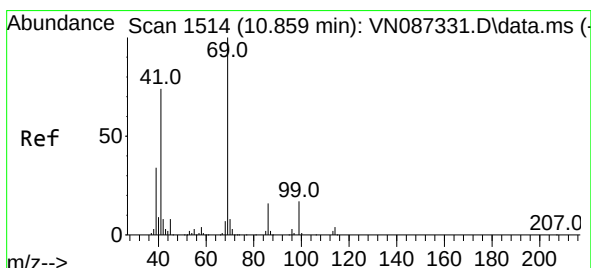
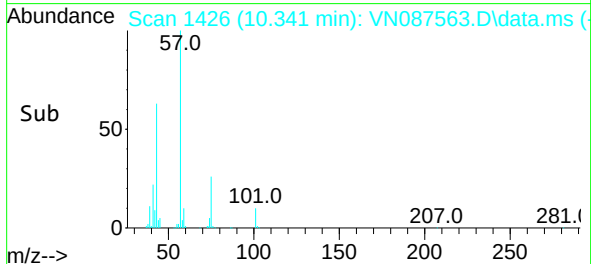
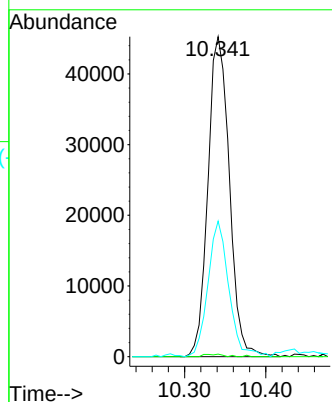
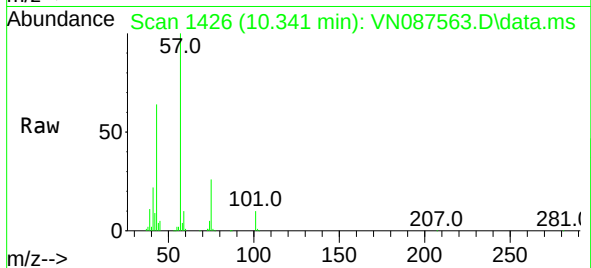




#54
cis-1,3-Dichloropropene
Concen: 13.857 ug/l
RT: 10.341 min Scan# 1418
Delta R.T. 0.047 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

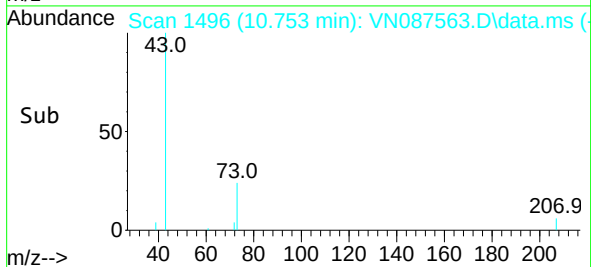
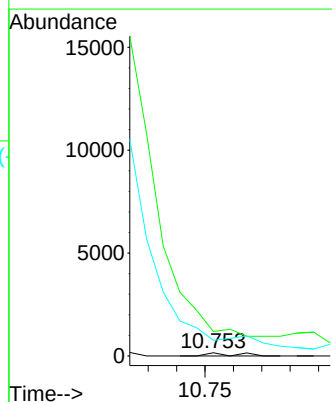
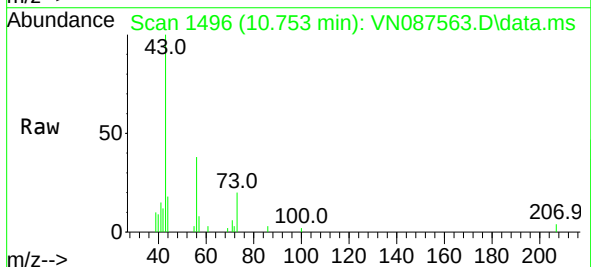
Instrument :
MSVOA_N
ClientSampleId :

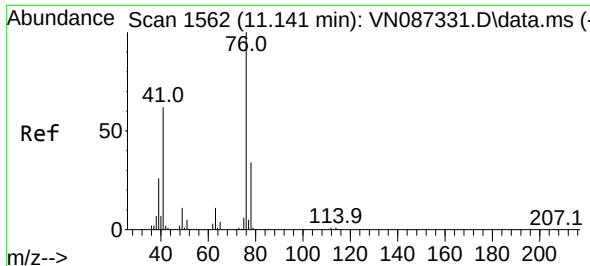
Tgt Ion:	75	Resp:	83046
Ion	Ratio	Lower	Upper
75	100		
77	0.8	24.2	36.2#
39	42.0	38.4	57.6



#56
Ethyl methacrylate
Concen: 0.653 ug/l
RT: 10.753 min Scan# 1496
Delta R.T. -0.106 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

Tgt Ion:	69	Resp:	108
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: 0.968 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087563.D

Acq: 14 Aug 2025 14:14

Instrument :

MSVOA_N

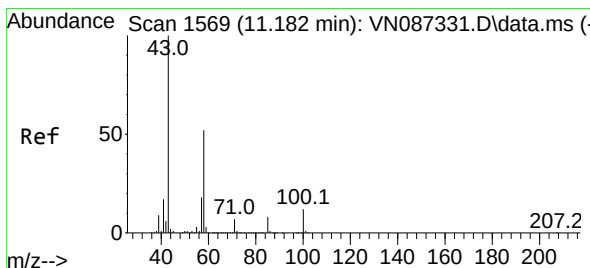
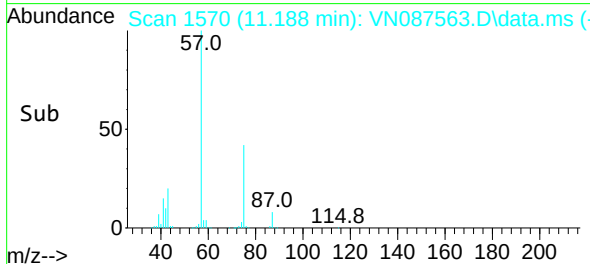
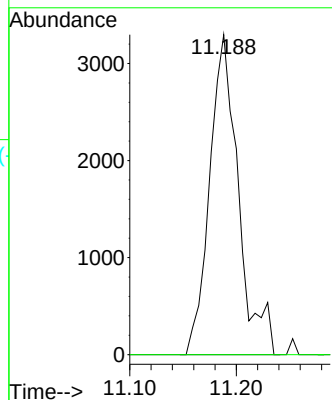
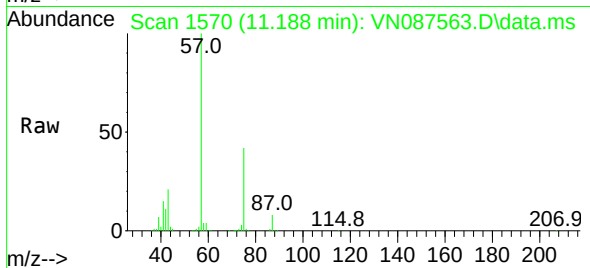
ClientSampleId :

Tgt Ion: 76 Resp: 6159

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 24.168 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN087563.D

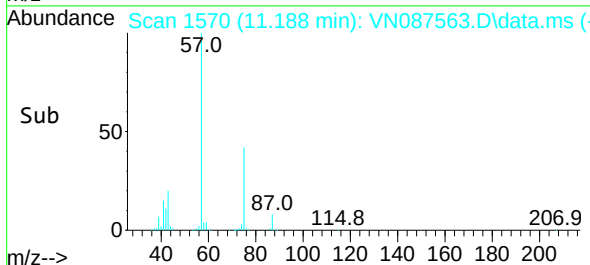
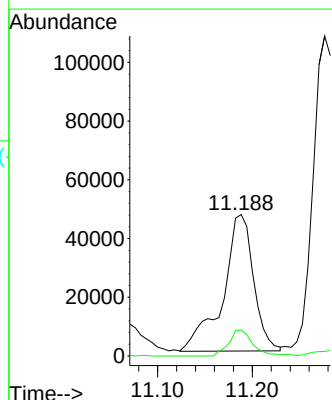
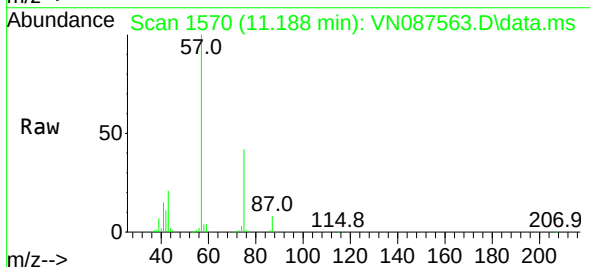
Acq: 14 Aug 2025 14:14

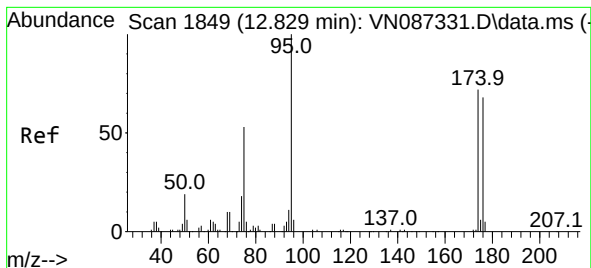
Tgt Ion: 43 Resp: 105244

Ion Ratio Lower Upper

43 100

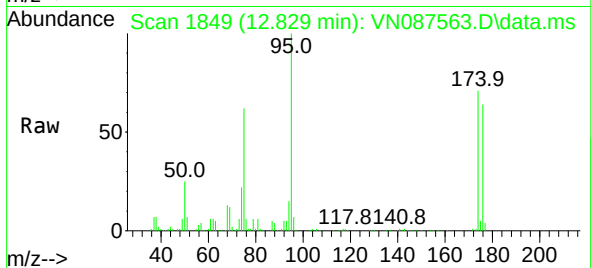
58 15.0 26.7 80.0#



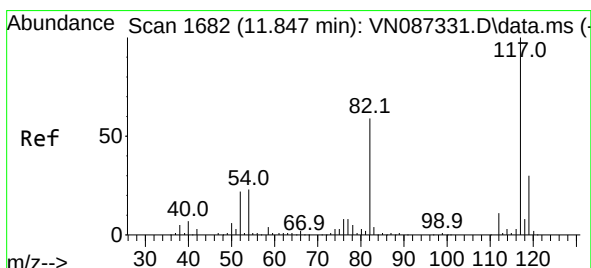
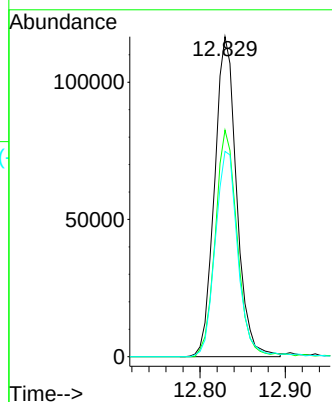
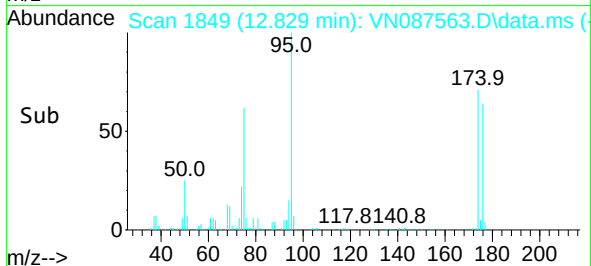


#62
4-Bromofluorobenzene
Concen: 45.418 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14

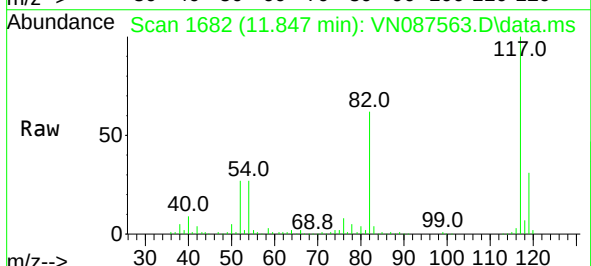
Instrument :
MSVOA_N
ClientSampleId :



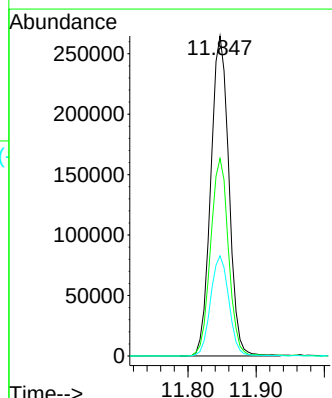
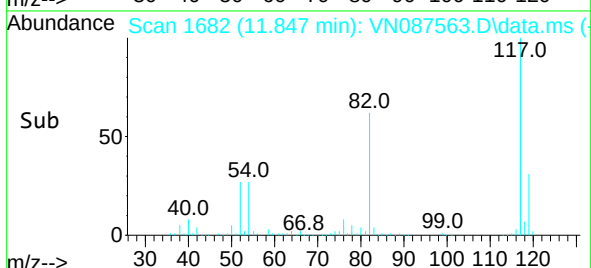
Tgt Ion: 95 Resp: 209709
Ion Ratio Lower Upper
95 100
174 70.4 0.0 149.4
176 66.8 0.0 141.2

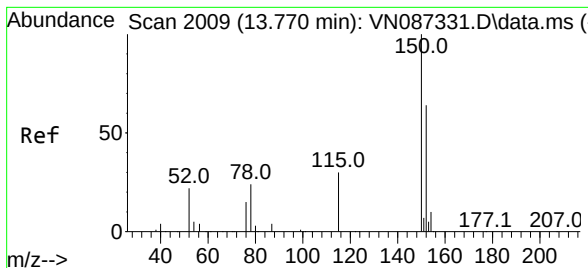


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087563.D
Acq: 14 Aug 2025 14:14



Tgt Ion: 117 Resp: 489215
Ion Ratio Lower Upper
117 100
82 61.7 47.4 71.2
119 31.3 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: VN087563.D

Acq: 14 Aug 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

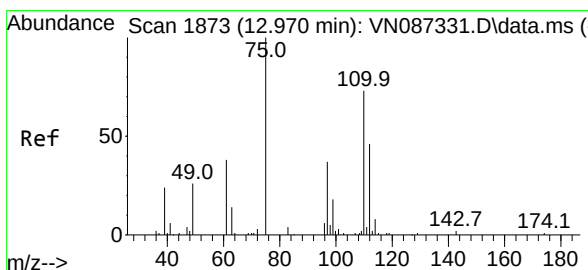
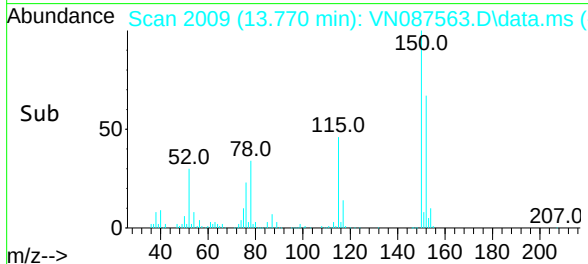
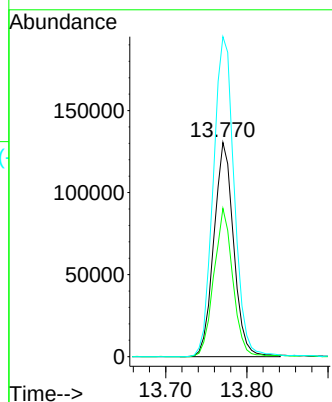
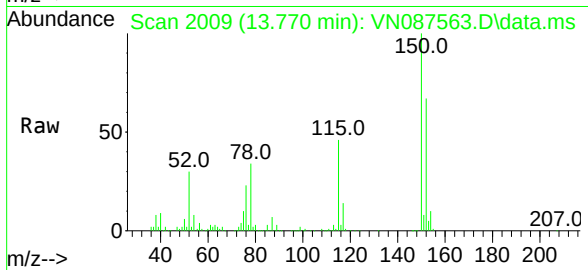
Tgt Ion:152 Resp: 221171

Ion Ratio Lower Upper

152 100

115 66.1 31.1 93.5

150 158.2 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 25.516 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087563.D

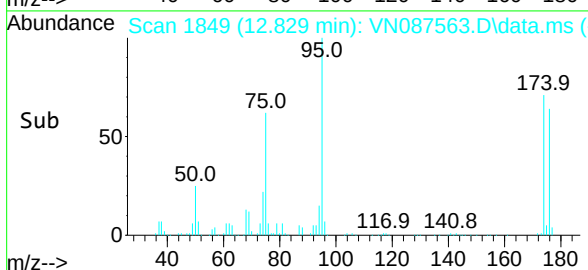
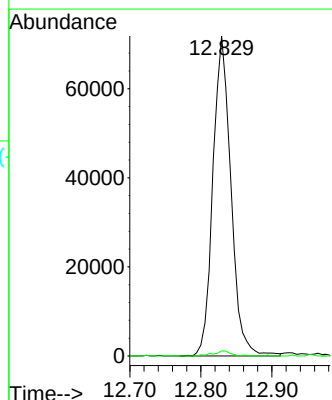
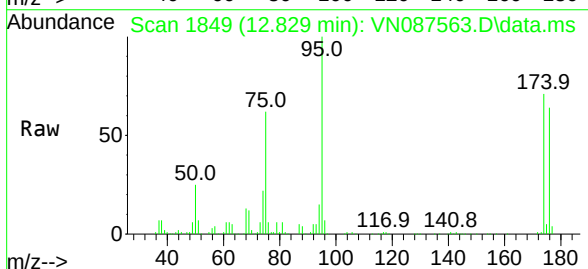
Acq: 14 Aug 2025 14:14

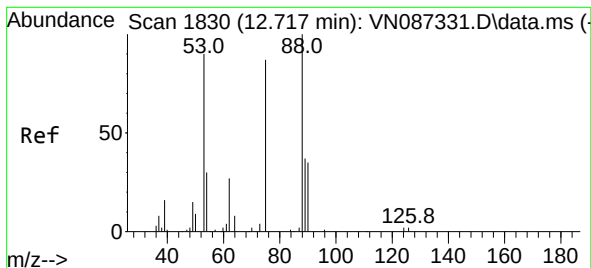
Tgt Ion: 75 Resp: 126549

Ion Ratio Lower Upper

75 100

77 1.5 94.5 283.6#

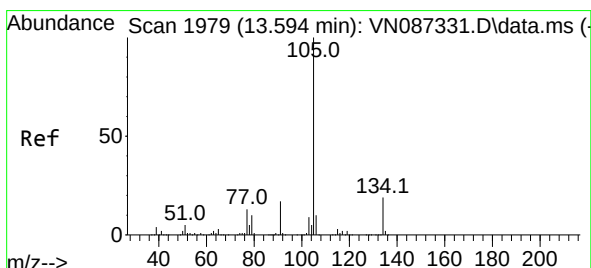
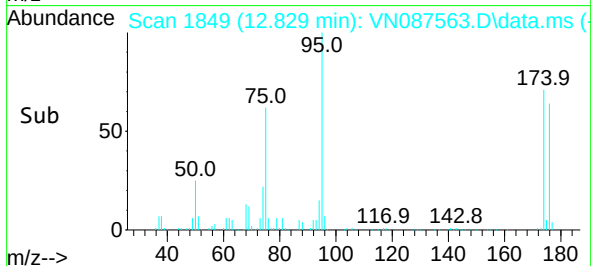
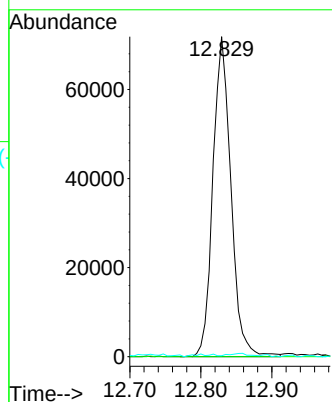
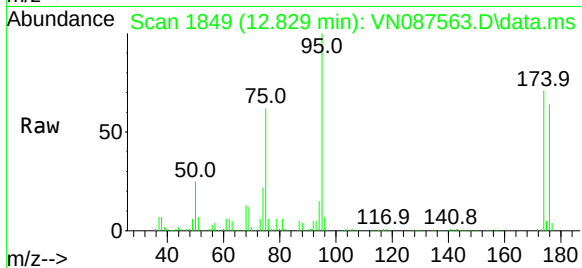




#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.816 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087563.D
 Acq: 14 Aug 2025 14:14

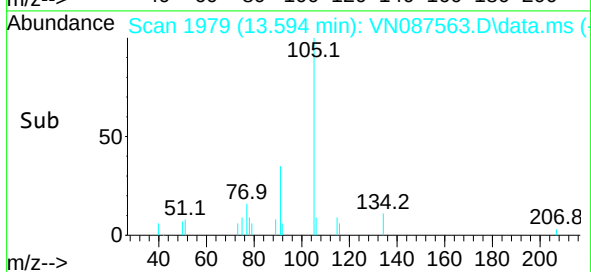
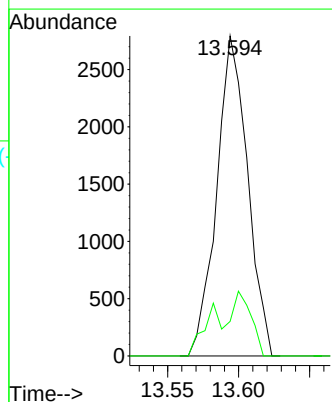
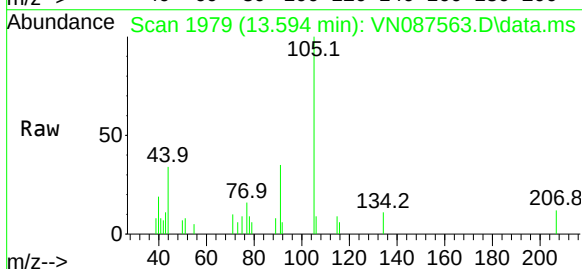
Instrument :
 MSVOA_N
 ClientSampleId :

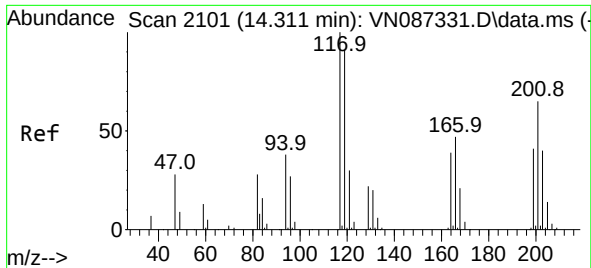
Tgt Ion: 75 Resp: 126549
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.5 125.3#
 89 0.0 38.4 57.6#



#85
 sec-Butylbenzene
 Concen: 0.283 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087563.D
 Acq: 14 Aug 2025 14:14

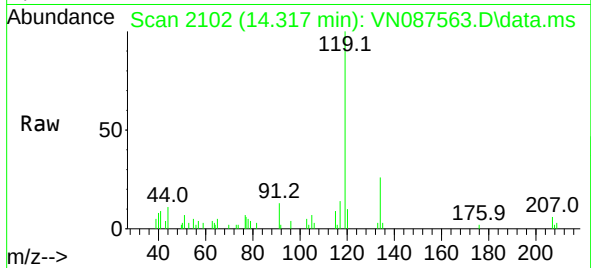
Tgt Ion: 105 Resp: 4225
 Ion Ratio Lower Upper
 105 100
 134 13.2 9.8 29.4





#90
 Hexachloroethane
 Concen: 0.799 ug/l
 RT: 14.317 min Scan# 2101
 Delta R.T. 0.006 min
 Lab File: VN087563.D
 Acq: 14 Aug 2025 14:14

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:117 Resp: 2023
 Ion Ratio Lower Upper
 117 100
 201 0.0 32.8 98.4#

