

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110725\
 Data File : VN088223.D
 Acq On : 07 Nov 2025 10:39
 Operator : JC\MD
 Sample : VN1107MBL01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107MBL01

Quant Time: Nov 08 01:53:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

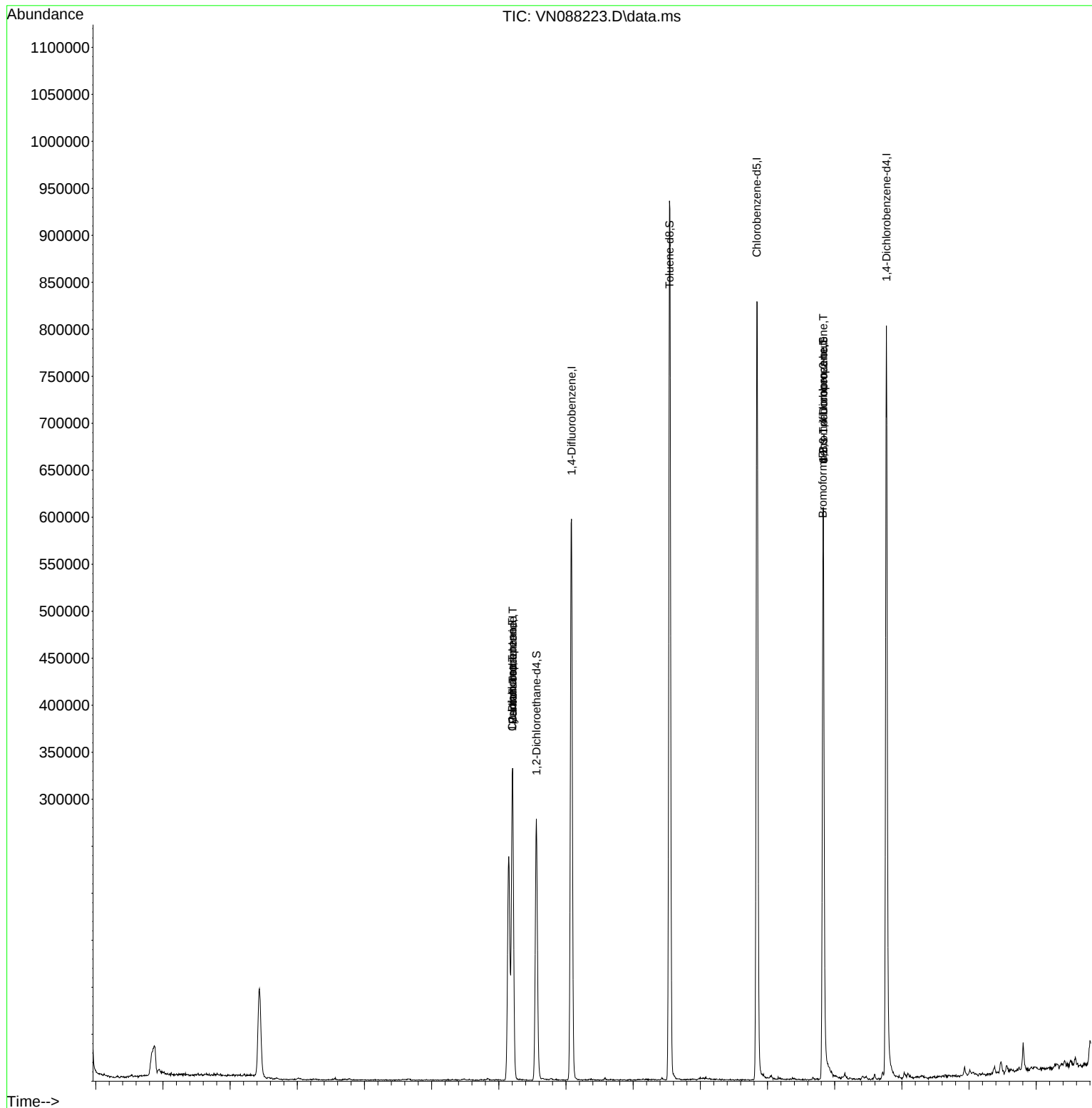
Internal Standards						
1) Pentafluorobenzene	8.206	168	226952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	504591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	469491	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	213204	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	227748	58.033	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.060%			
35) Dibromofluoromethane	8.147	113	173465	51.172	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.340%			
50) Toluene-d8	10.541	98	645304	49.404	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.800%			
62) 4-Bromofluorobenzene	12.829	95	238473	51.697	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.400%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	1357	0.451	ug/l #	80
5) Bromomethane	2.953	94	3489	1.778	ug/l #	70
10) Methyl Iodide	4.577	142	971	0.393	ug/l #	86
11) Tert butyl alcohol	5.530	59	352	0.521	ug/l #	71
15) Acrylonitrile	5.712	53	1003	0.545	ug/l #	46
16) Acetone	4.436	43	2108	1.069	ug/l #	79
18) Methyl Acetate	5.018	43	3179	0.788	ug/l #	65
20) Methylene Chloride	5.271	84	961	0.290	ug/l #	49
25) 2-Butanone	7.494	43	2042	0.786	ug/l #	50
29) Tetrahydrofuran	7.829	42	915	0.540	ug/l #	55
31) Cyclohexane	8.200	56	7231	1.316	ug/l #	43
36) 1,1-Dichloropropene	8.200	75	22543	4.555	ug/l #	52
37) Ethyl Acetate	7.494	43	2042	0.320	ug/l #	72
38) Carbon Tetrachloride	8.206	117	25976	5.081	ug/l #	14
51) 4-Methyl-2-Pentanone	10.423	43	1852	0.319	ug/l #	79
58) 2-Chloroethyl Vinyl ether	10.159	63	724	0.249	ug/l #	49
71) Bromoform	12.823	173	1889	0.725	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	134230	27.537	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	134230	76.816	ug/l #	1
83) tert-Butylbenzene	13.423	119	2620	0.215	ug/l #	82
85) sec-Butylbenzene	13.588	105	3634	0.203	ug/l	98
86) p-Isopropyltoluene	13.711	119	2891	0.201	ug/l	91
89) n-Butylbenzene	14.035	91	4301	0.302	ug/l	88
90) Hexachloroethane	14.311	117	692	0.249	ug/l #	22
93) 1,2,4-Trichlorobenzene	15.382	180	2209	0.535	ug/l	85
94) Hexachlorobutadiene	15.482	225	1491	0.969	ug/l	84
96) 1,2,3-Trichlorobenzene	15.823	180	1856	0.468	ug/l #	21

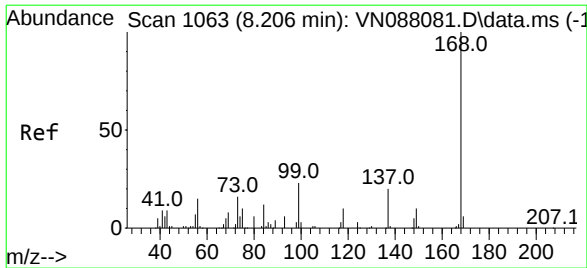
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

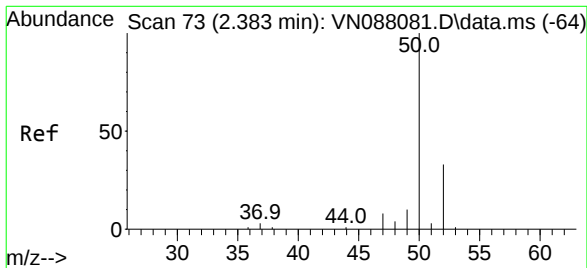
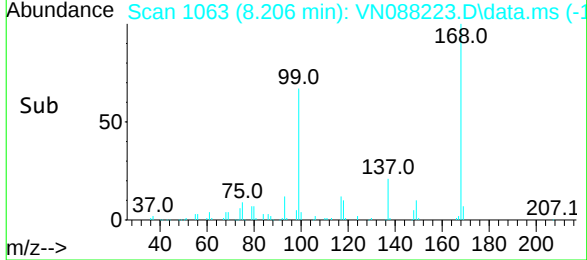
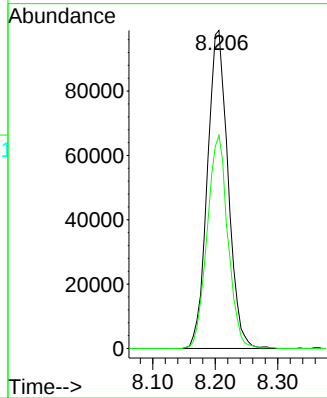
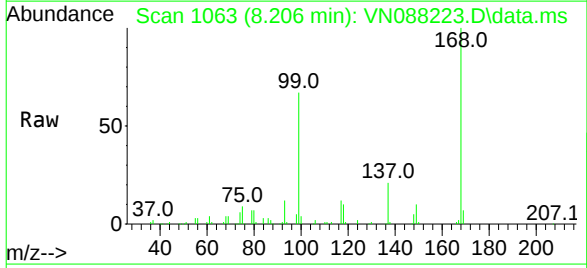




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

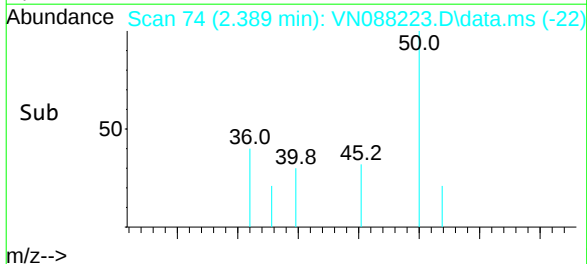
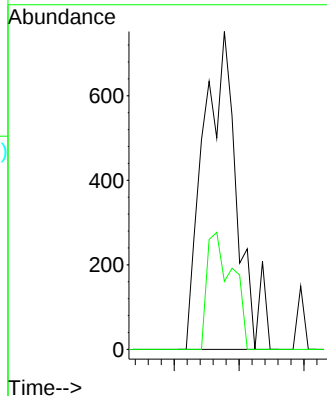
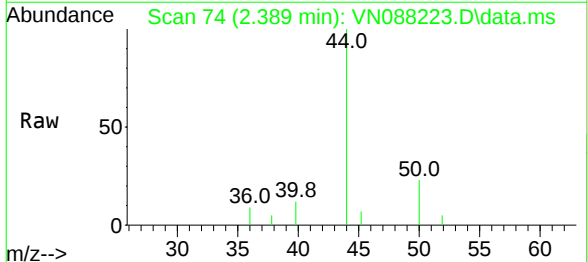
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01

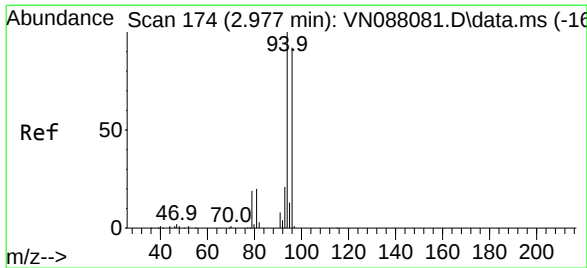
Tgt Ion:168 Resp: 226952
Ion Ratio Lower Upper
168 100
99 67.0 57.2 85.8



#3
Chloromethane
Concen: 0.451 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

Tgt Ion: 50 Resp: 1357
Ion Ratio Lower Upper
50 100
52 21.4 26.2 39.4#

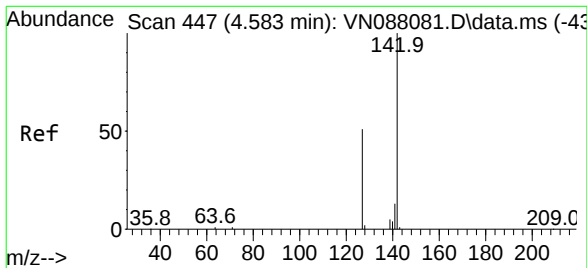
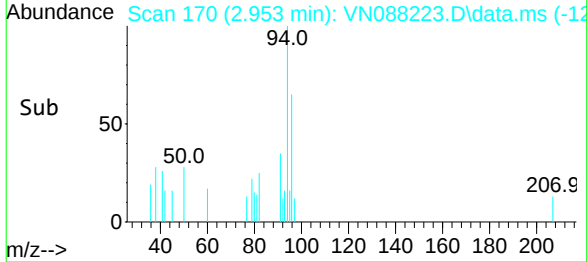
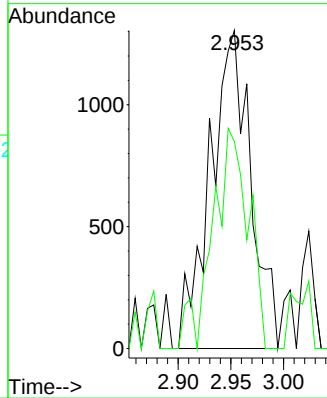
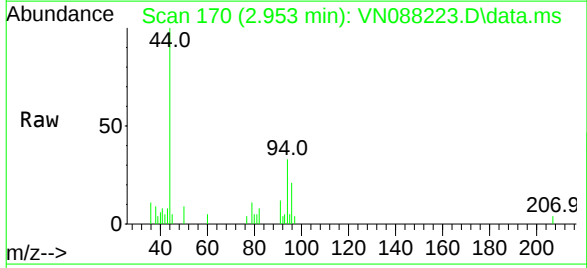




#5
Bromomethane
Concen: 1.778 ug/l
RT: 2.953 min Scan# 174
Delta R.T. -0.018 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

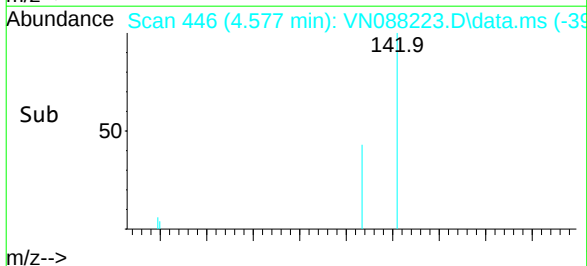
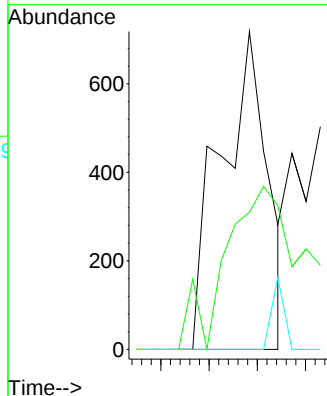
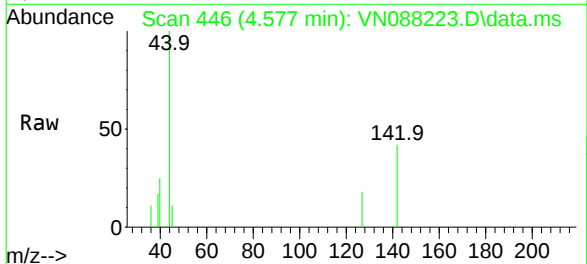
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01

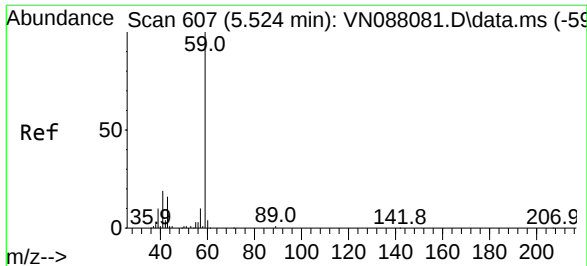
Tgt Ion: 94 Resp: 3489
Ion Ratio Lower Upper
94 100
96 65.1 75.4 113.2#



#10
Methyl Iodide
Concen: 0.393 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

Tgt Ion:142 Resp: 971
Ion Ratio Lower Upper
142 100
127 43.2 38.0 57.0
141 0.0 12.0 18.0#

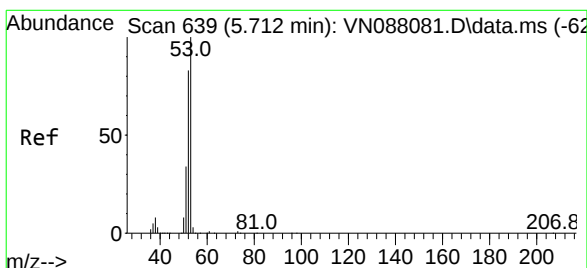
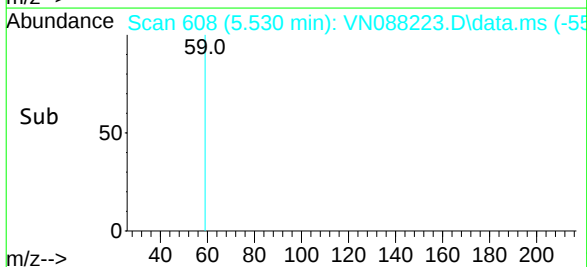
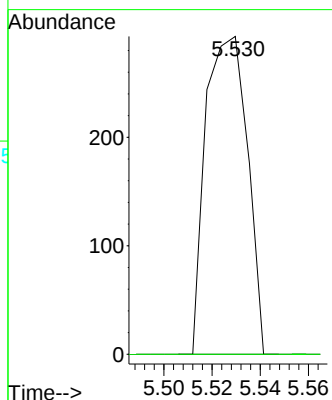
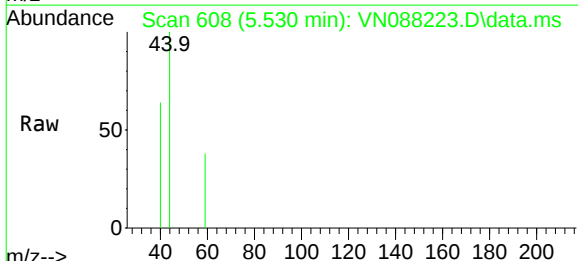




#11
Tert butyl alcohol
Concen: 0.521 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

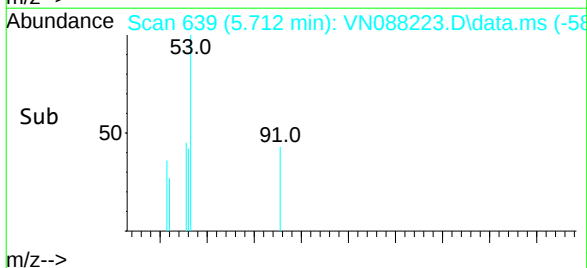
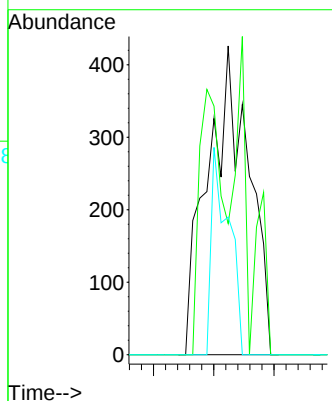
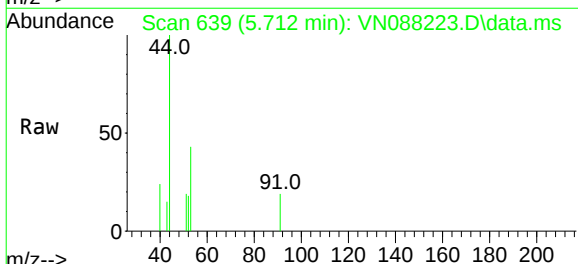
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01

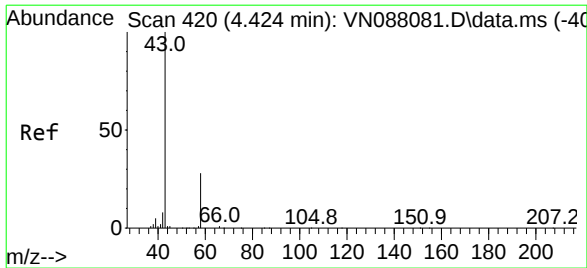
Tgt Ion: 59 Resp: 352
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#15
Acrylonitrile
Concen: 0.545 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

Tgt Ion: 53 Resp: 1003
Ion Ratio Lower Upper
53 100
52 38.3 67.6 101.4#
51 0.0 30.1 45.1#





#16

Acetone

Concen: 1.069 ug/l

RT: 4.436 min Scan# 420

Delta R.T. 0.012 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

Instrument :

MSVOA_N

ClientSampleId :

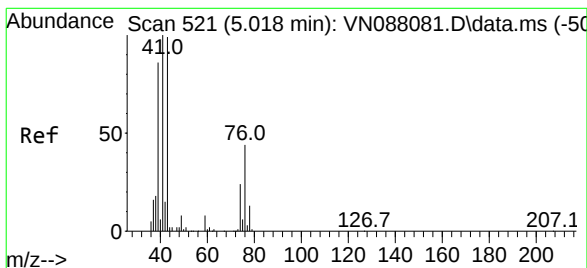
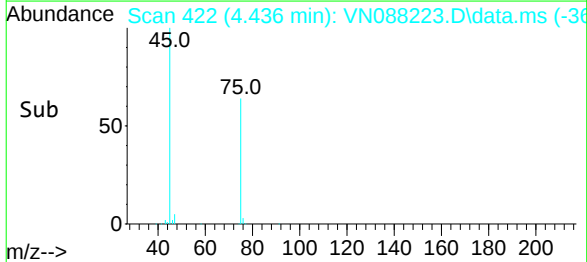
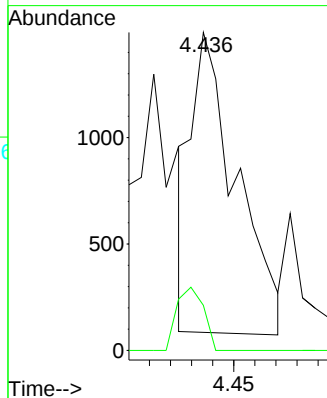
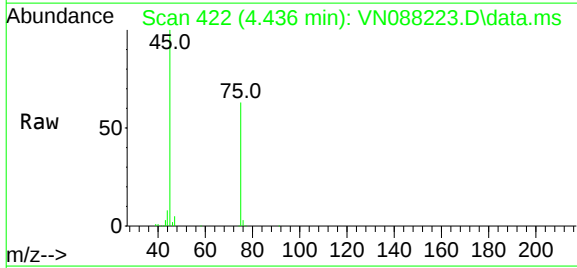
VN1107MBL01

Tgt Ion: 43 Resp: 2108

Ion Ratio Lower Upper

43 100

58 17.3 22.6 33.8#



#18

Methyl Acetate

Concen: 0.788 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.006 min

Lab File: VN088223.D

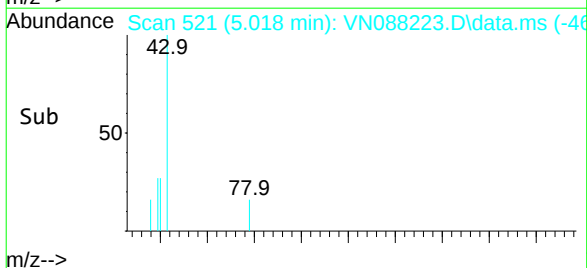
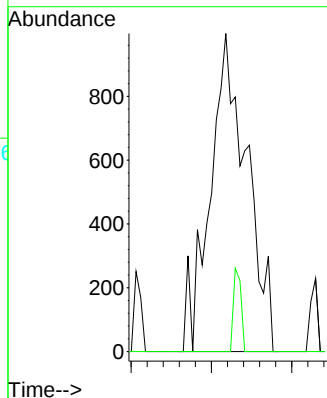
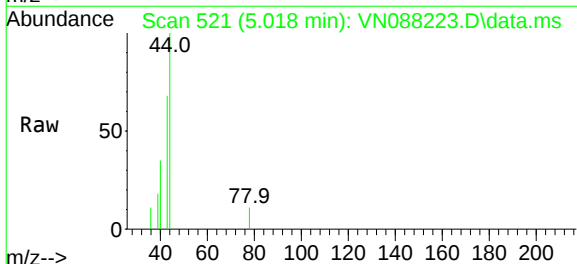
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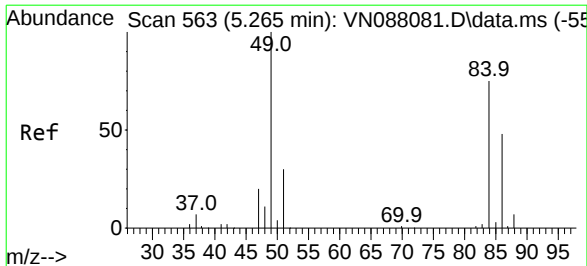
Tgt Ion: 43 Resp: 3179

Ion Ratio Lower Upper

43 100

74 5.3 17.6 26.4#





#20

Methylene Chloride

Concen: 0.290 ug/l

RT: 5.271 min Scan# 56

Delta R.T. 0.006 min

Lab File: VN088223.D

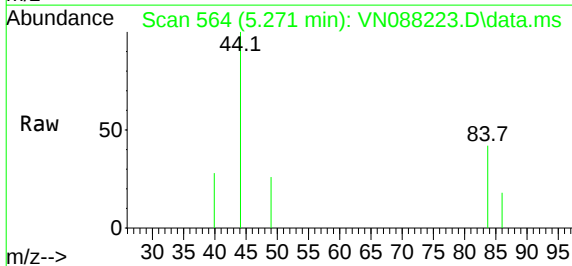
Acq: 07 Nov 2025 10:39

Instrument :

MSVOA_N

ClientSampleId :

VN1107MBL01



Tgt Ion: 84 Resp: 961

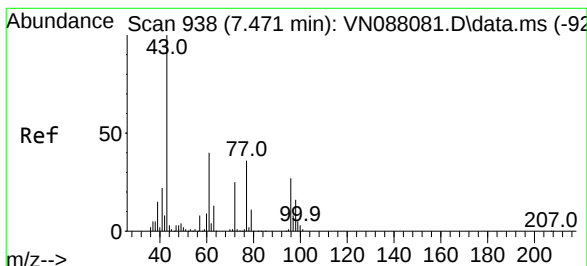
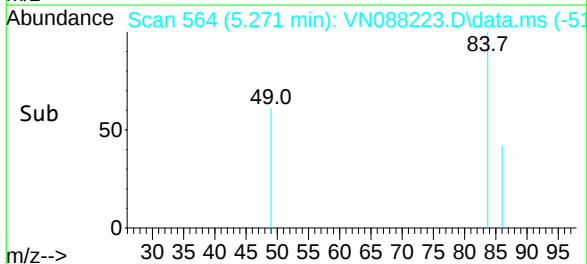
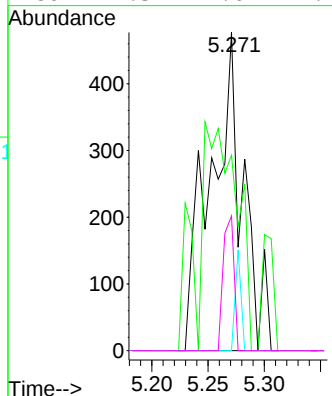
Ion Ratio Lower Upper

84 100

49 61.4 103.4 155.2#

51 0.0 33.8 50.8#

86 42.3 49.6 74.4#



#25

2-Butanone

Concen: 0.786 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.029 min

Lab File: VN088223.D

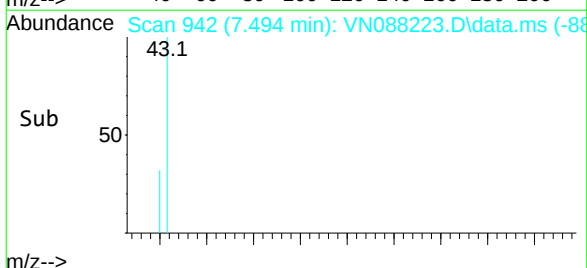
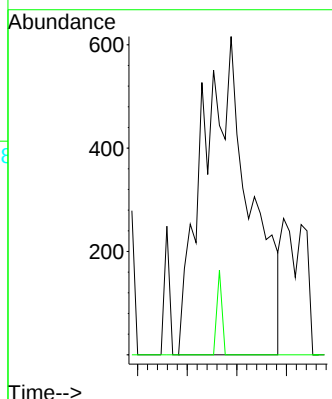
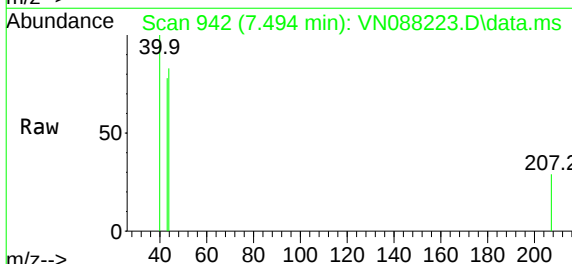
Acq: 07 Nov 2025 10:39

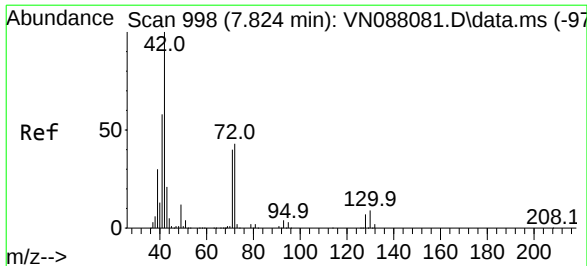
Tgt Ion: 43 Resp: 2042

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#

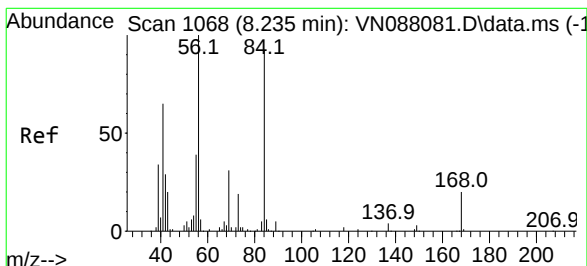
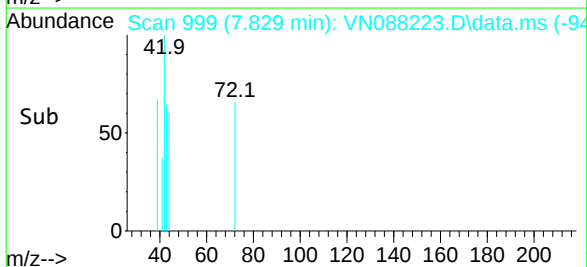
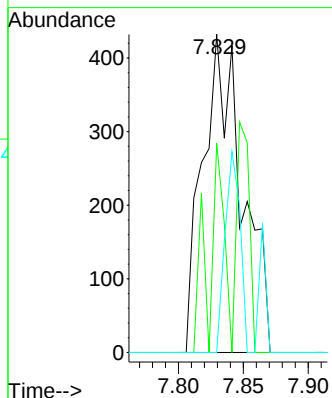
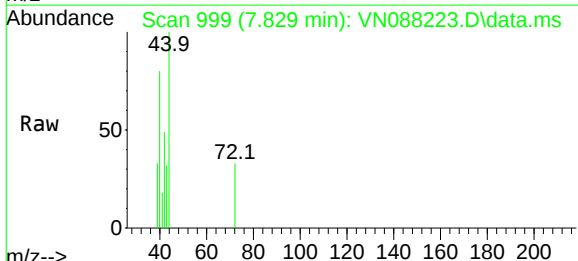




#29
Tetrahydrofuran
Concen: 0.540 ug/l
RT: 7.829 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

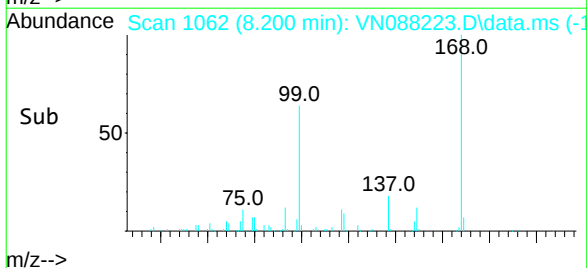
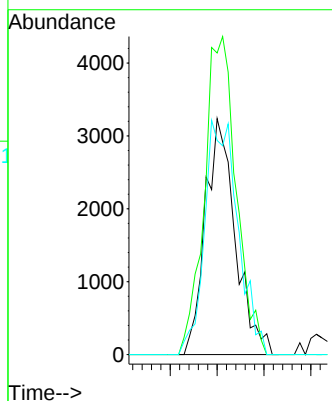
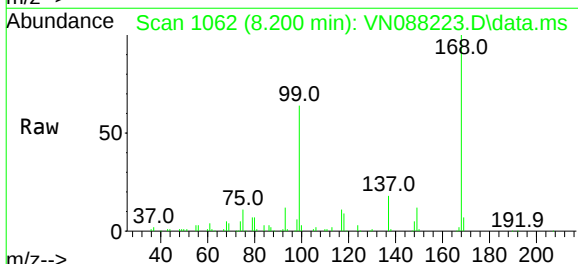
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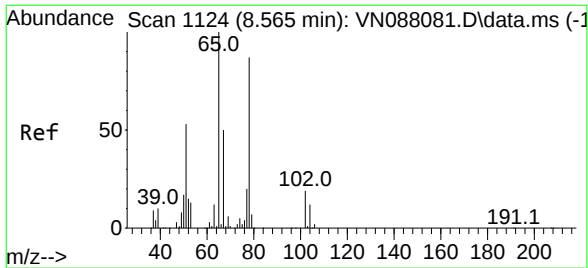
Tgt Ion: 42	Resp: 915
Ion Ratio	Lower Upper
42 100	
72 26.0	33.7 50.5#
71 0.0	31.9 47.9#



#31
Cyclohexane
Concen: 1.316 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.036 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

Tgt Ion: 56	Resp: 7231
Ion Ratio	Lower Upper
56 100	
69 127.8	23.7 35.5#
84 90.7	64.7 97.1

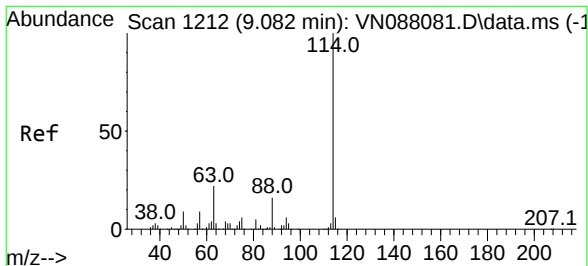
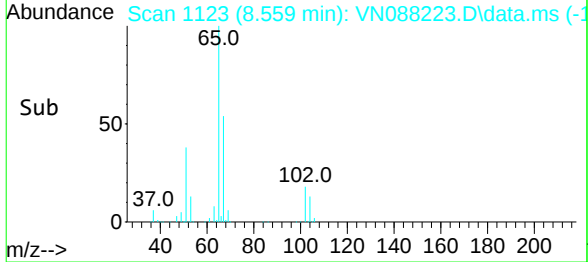
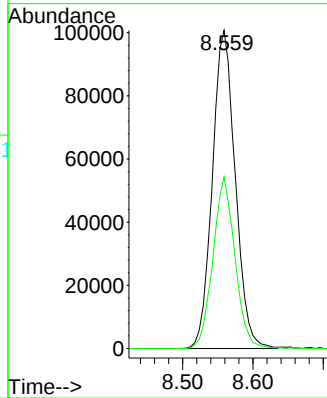
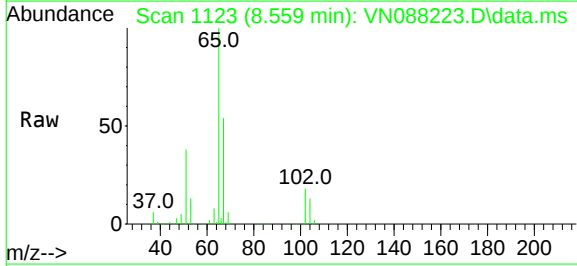




#33
1,2-Dichloroethane-d4
Concen: 58.033 ug/l
RT: 8.559 min Scan# 1112
Delta R.T. -0.000 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

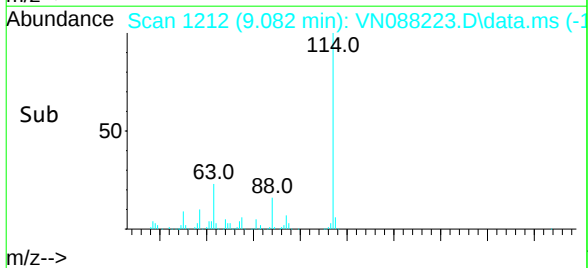
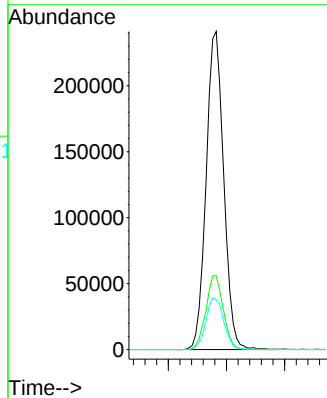
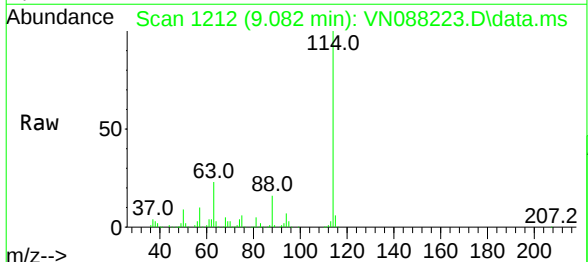
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01

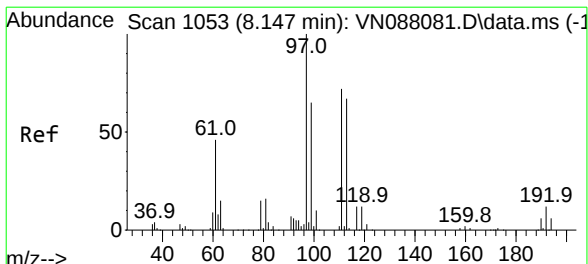
Tgt Ion: 65 Resp: 227748
Ion Ratio Lower Upper
65 100
67 51.7 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

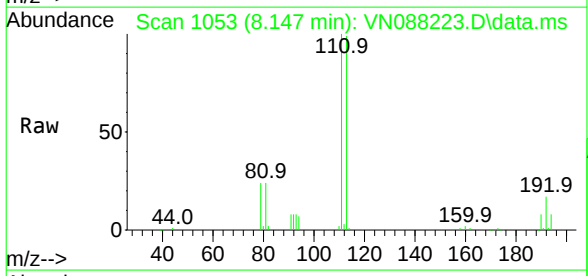
Tgt Ion: 114 Resp: 504591
Ion Ratio Lower Upper
114 100
63 23.2 0.0 45.2
88 15.7 0.0 33.4



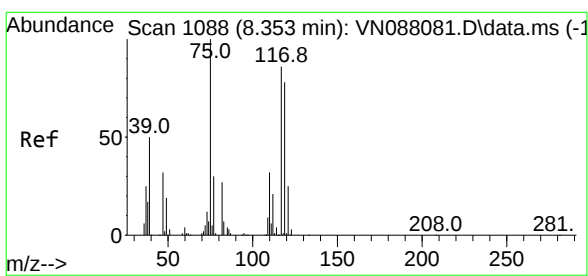
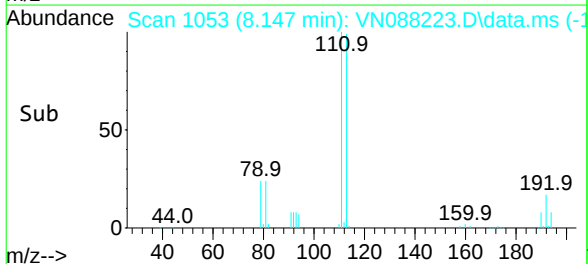
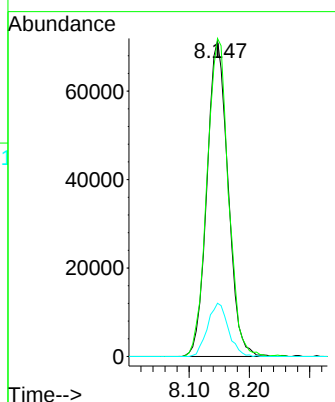


#35
 Dibromofluoromethane
 Concen: 51.172 ug/l
 RT: 8.147 min Scan# 1053
 Delta R.T. -0.006 min
 Lab File: VN088223.D
 Acq: 07 Nov 2025 10:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107MBL01

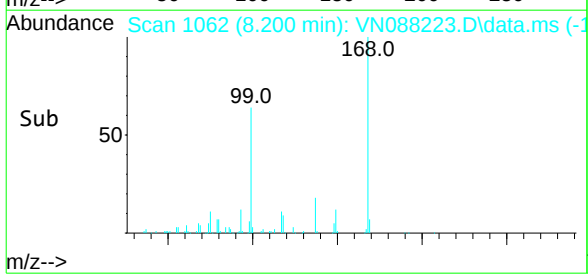
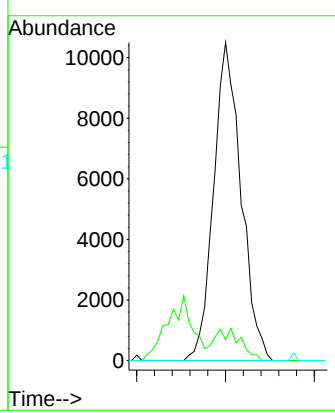
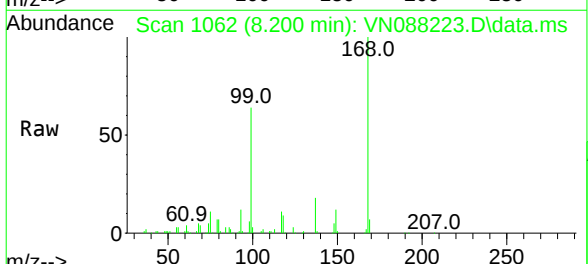


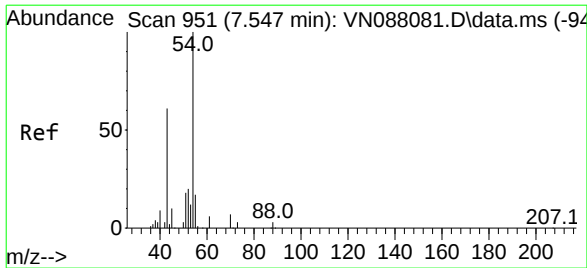
Tgt Ion:	113	Resp:	173465
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.8	124.2
192	16.7	12.8	19.2



#36
 1,1-Dichloropropene
 Concen: 4.555 ug/l
 RT: 8.200 min Scan# 1062
 Delta R.T. -0.153 min
 Lab File: VN088223.D
 Acq: 07 Nov 2025 10:39

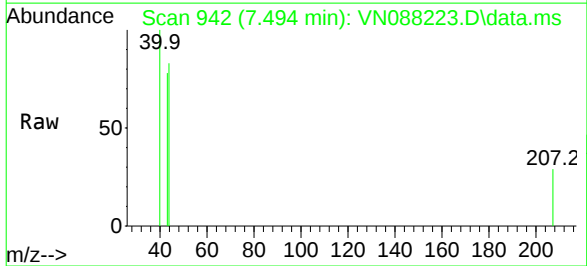
Tgt Ion:	75	Resp:	22543
Ion	Ratio	Lower	Upper
75	100		
110	9.6	15.9	47.6#
77	0.0	24.4	36.6#



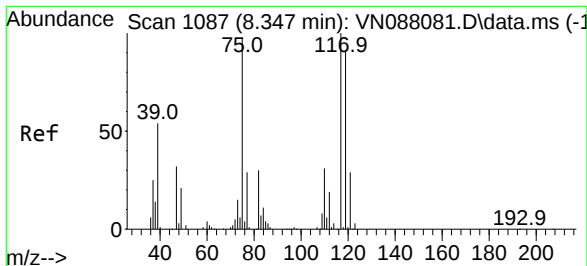
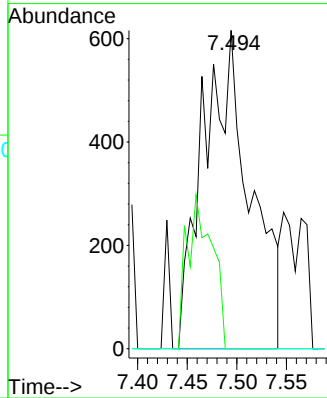
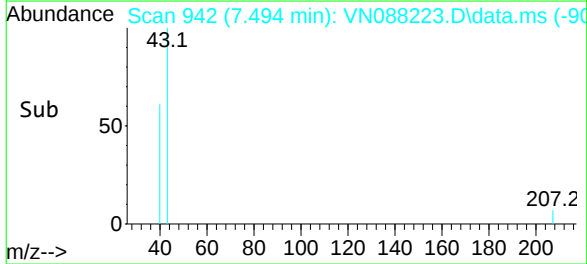


#37
Ethyl Acetate
Concen: 0.320 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.053 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

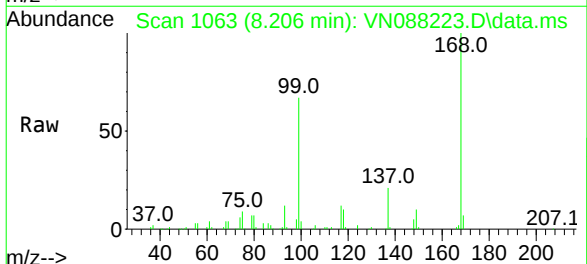
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01



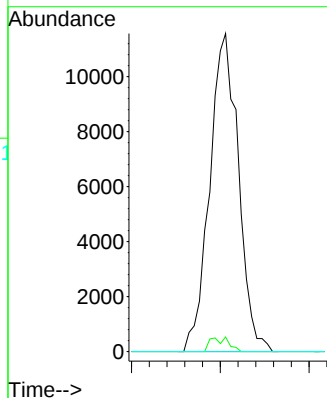
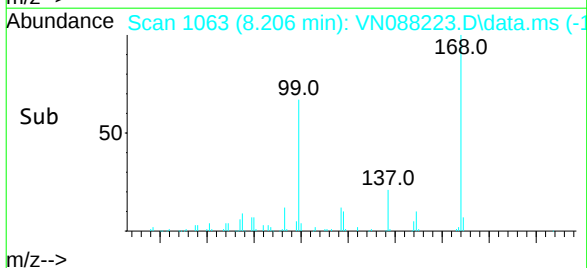
Tgt Ion: 43 Resp: 2042
Ion Ratio Lower Upper
43 100
61 0.0 9.3 13.9#
70 0.0 7.0 10.6#

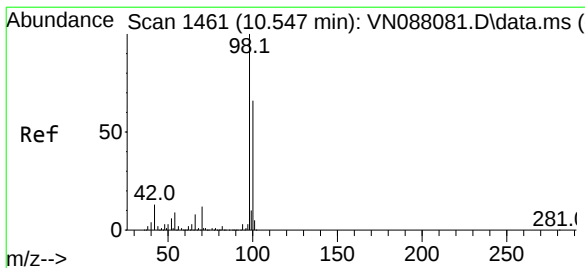


#38
Carbon Tetrachloride
Concen: 5.081 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.136 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39



Tgt Ion: 117 Resp: 25976
Ion Ratio Lower Upper
117 100
119 4.6 79.0 118.6#
121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: 49.404 ug/l

RT: 10.541 min Scan# 1461

Delta R.T. -0.006 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

Instrument :

MSVOA_N

ClientSampleId :

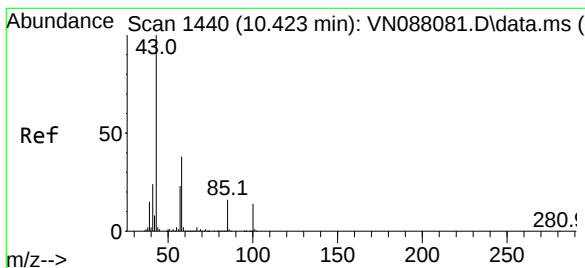
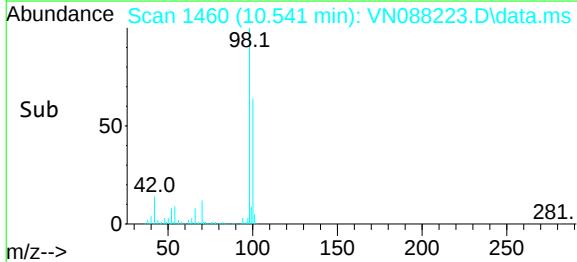
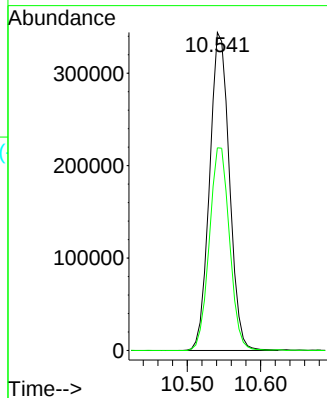
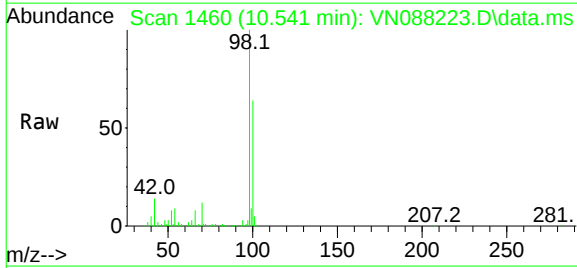
VN1107MBL01

Tgt Ion: 98 Resp: 645304

Ion Ratio Lower Upper

98 100

100 65.0 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 0.319 ug/l

RT: 10.423 min Scan# 1440

Delta R.T. -0.000 min

Lab File: VN088223.D

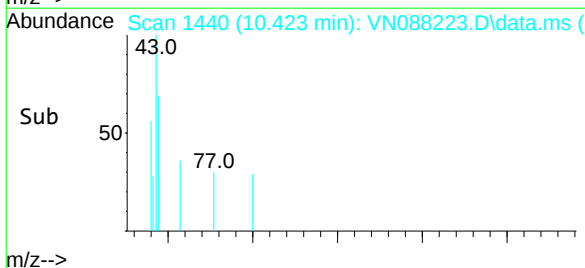
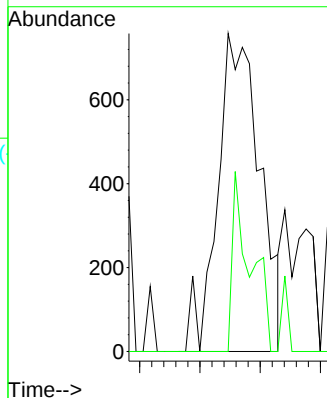
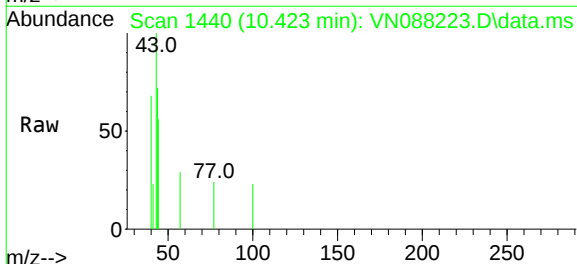
Acq: 07 Nov 2025 10:39

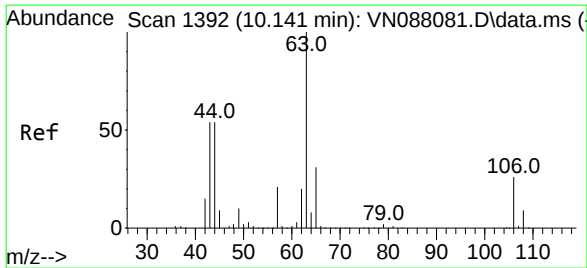
Tgt Ion: 43 Resp: 1852

Ion Ratio Lower Upper

43 100

58 24.3 29.6 44.4#





#58

2-Chloroethyl Vinyl ether

Concen: 0.249 ug/l

RT: 10.159 min Scan# 1392

Delta R.T. 0.017 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

Instrument :

MSVOA_N

ClientSampleId :

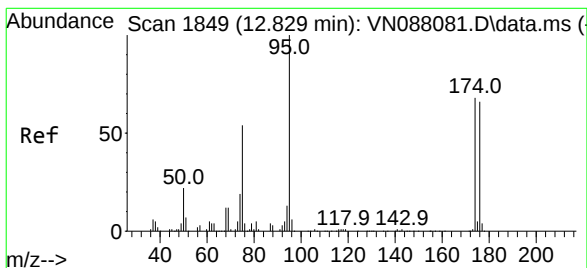
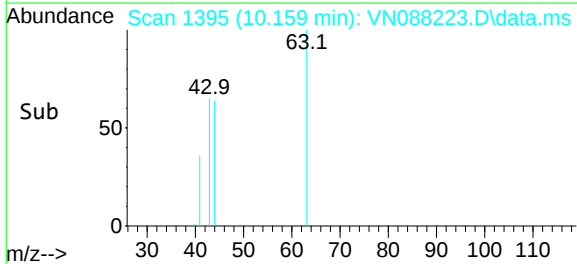
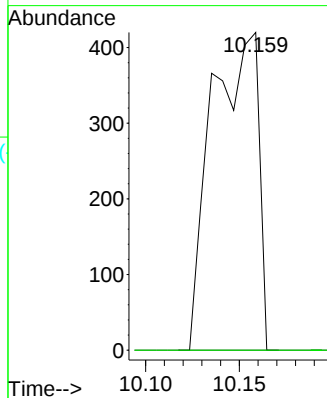
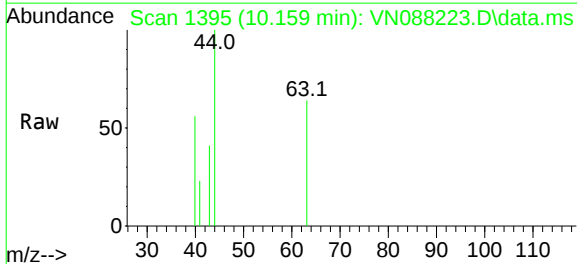
VN1107MBL01

Tgt Ion: 63 Resp: 724

Ion Ratio Lower Upper

63 100

106 0.0 21.1 31.7#



#62

4-Bromofluorobenzene

Concen: 51.697 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

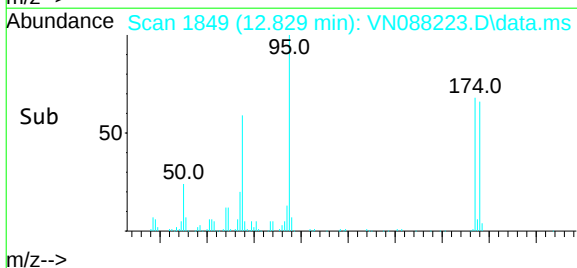
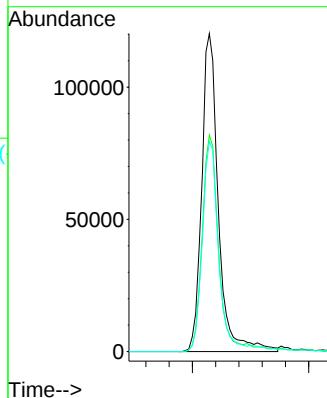
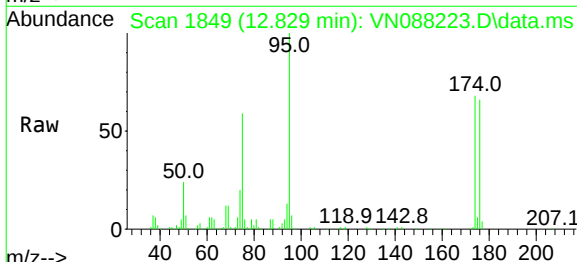
Tgt Ion: 95 Resp: 238473

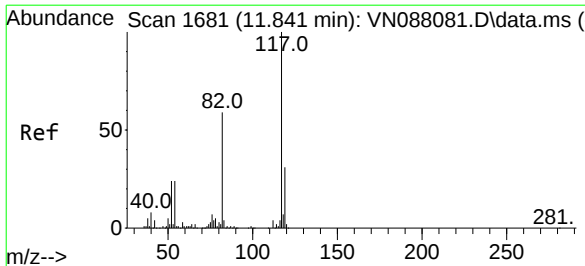
Ion Ratio Lower Upper

95 100

174 67.7 0.0 138.4

176 63.7 0.0 132.6

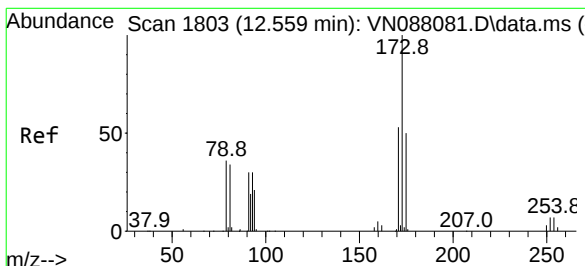
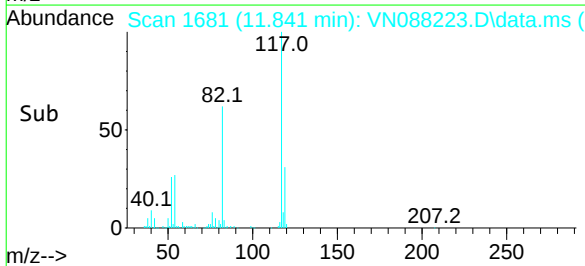
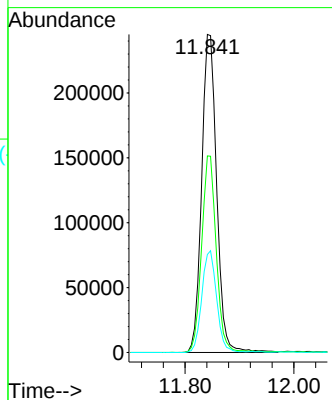
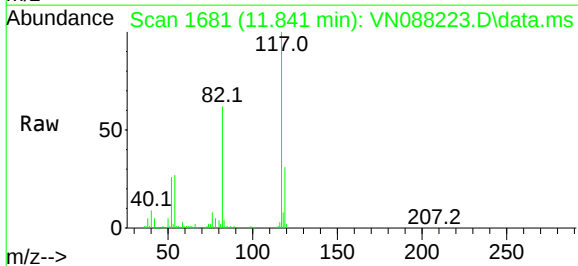




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

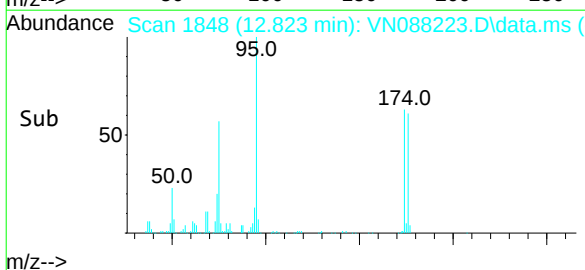
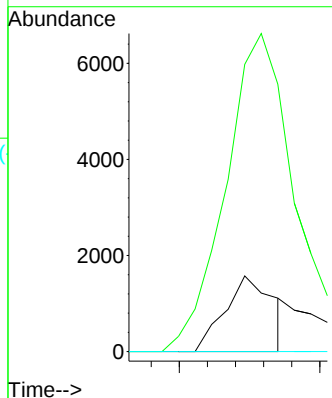
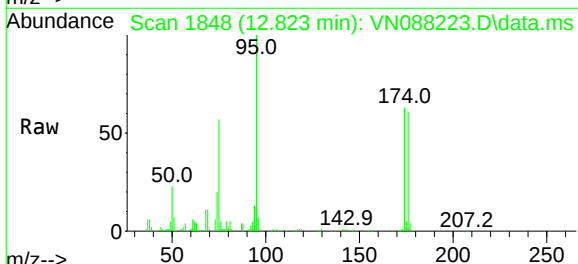
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01

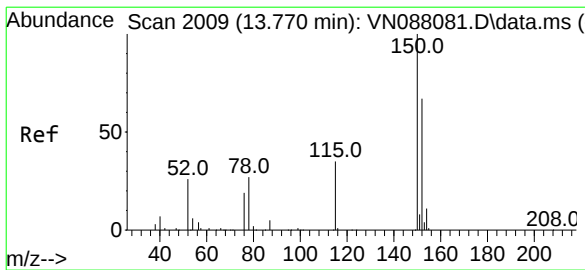
Tgt Ion:117 Resp: 469491
Ion Ratio Lower Upper
117 100
82 61.8 47.4 71.2
119 30.8 24.3 36.5



#71
Bromoform
Concen: 0.725 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.264 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

Tgt Ion:173 Resp: 1889
Ion Ratio Lower Upper
173 100
175 468.3 24.9 74.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

Instrument :

MSVOA_N

ClientSampleId :

VN1107MBL01

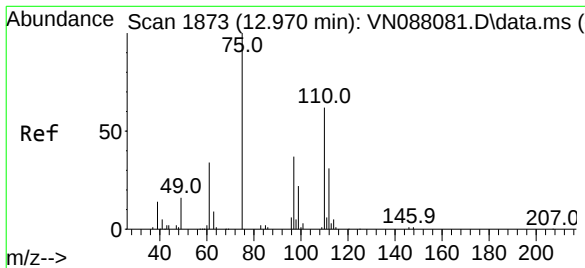
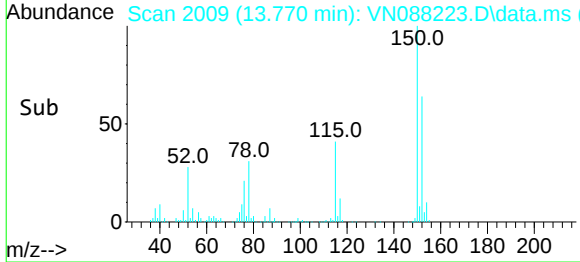
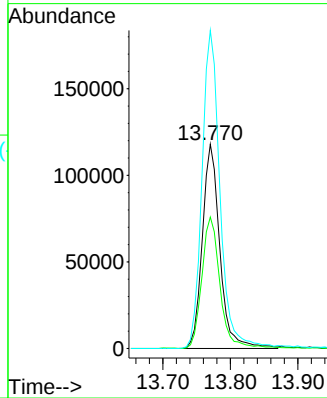
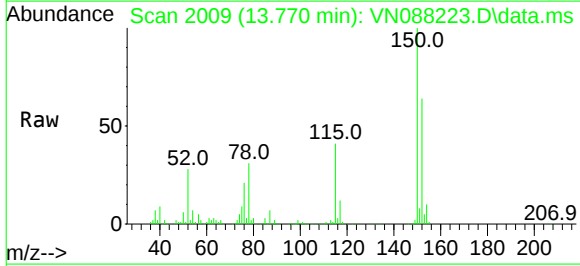
Tgt Ion:152 Resp: 213204

Ion Ratio Lower Upper

152 100

115 66.9 32.3 96.8

150 161.2 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 27.537 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088223.D

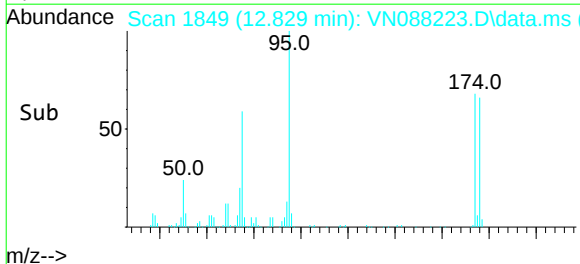
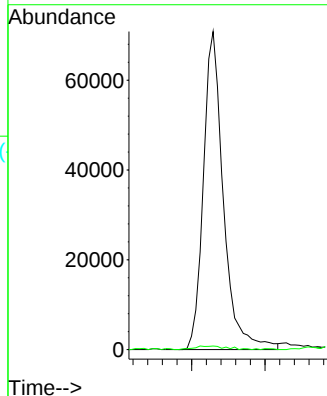
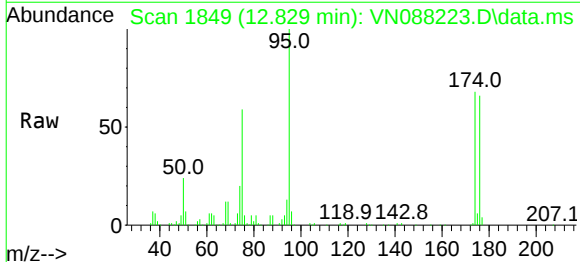
Acq: 07 Nov 2025 10:39

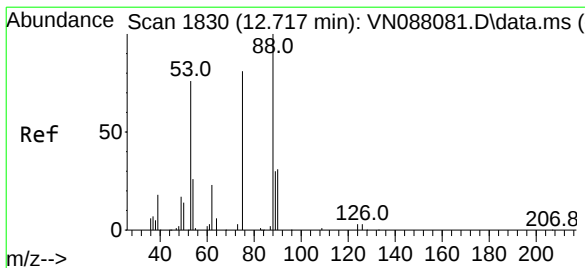
Tgt Ion: 75 Resp: 134230

Ion Ratio Lower Upper

75 100

77 1.8 89.1 267.4#

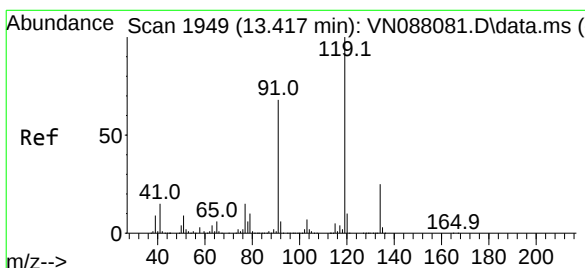
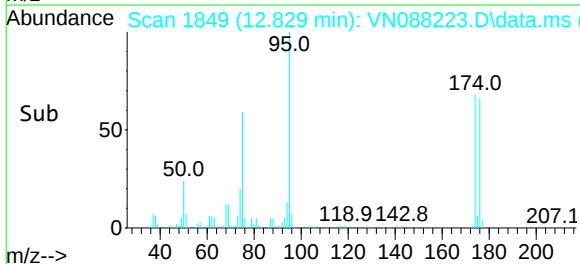
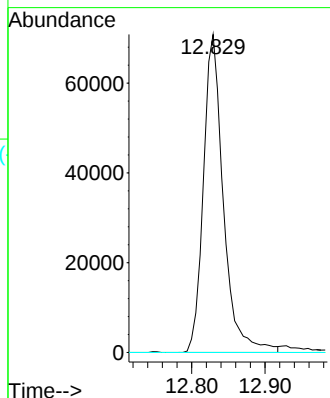
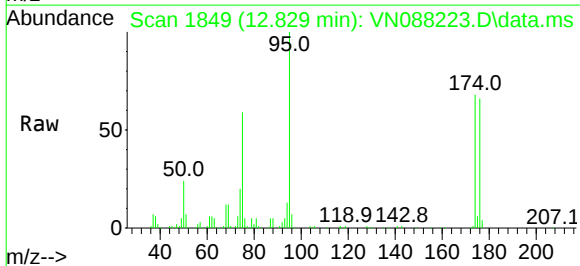




#81
trans-1,4-Dichloro-2-butene
Concen: 76.816 ug/l
RT: 12.829 min Scan# 1830
Delta R.T. 0.112 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

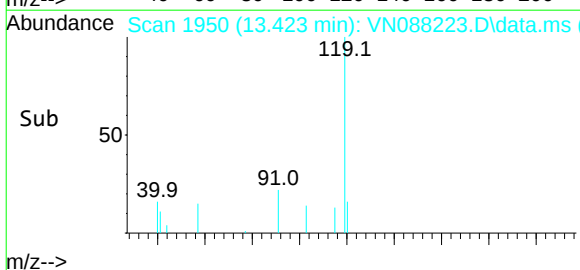
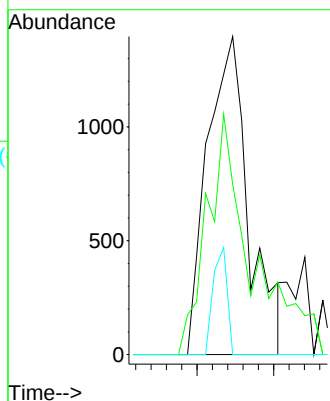
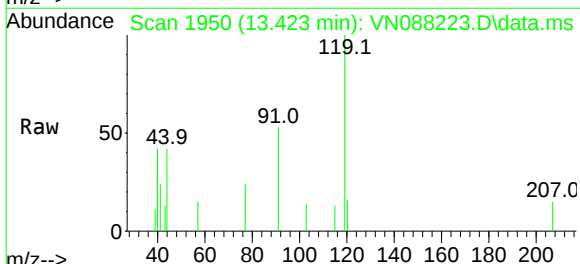
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01

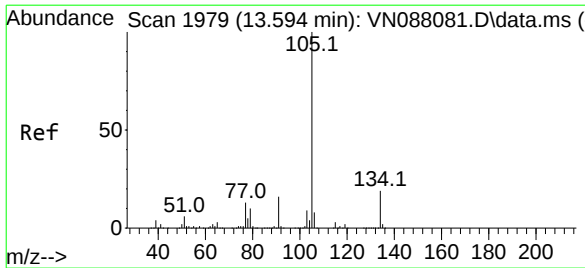
Tgt Ion: 75 Resp: 134230
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#83
tert-Butylbenzene
Concen: 0.215 ug/l
RT: 13.423 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

Tgt Ion: 119 Resp: 2620
Ion Ratio Lower Upper
119 100
91 81.8 35.0 105.0
134 11.3 12.6 37.8#





#85

sec-Butylbenzene

Concen: 0.203 ug/l

RT: 13.588 min Scan# 1979

Delta R.T. -0.006 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

Instrument :

MSVOA_N

ClientSampleId :

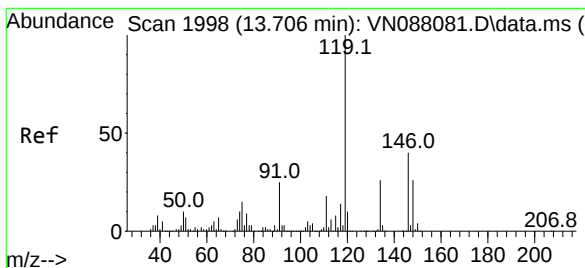
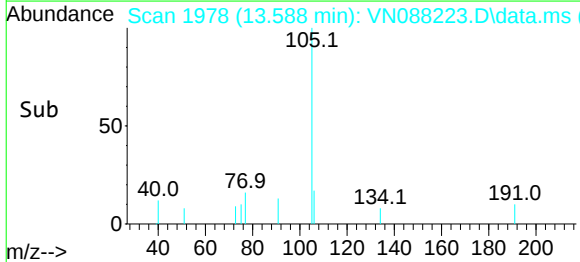
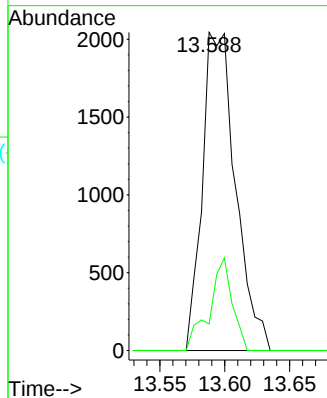
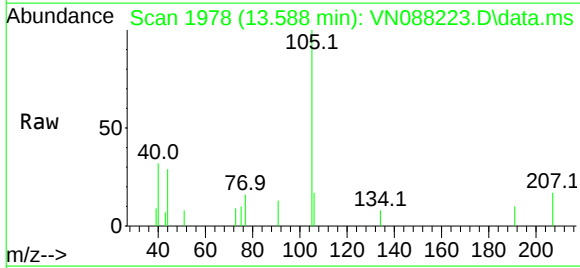
VN1107MBL01

Tgt Ion:105 Resp: 3634

Ion Ratio Lower Upper

105 100

134 20.1 9.6 28.6



#86

p-Isopropyltoluene

Concen: 0.201 ug/l

RT: 13.711 min Scan# 1999

Delta R.T. 0.006 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

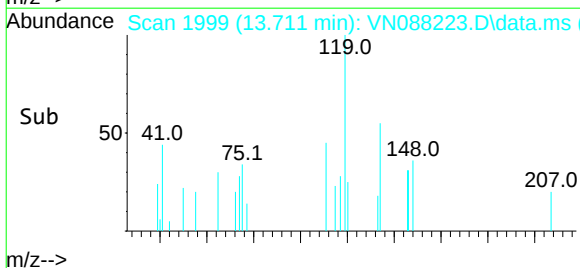
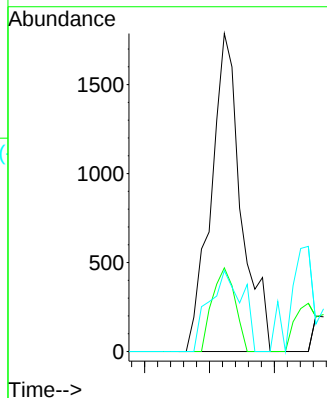
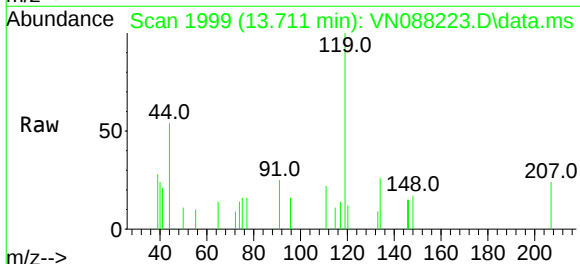
Tgt Ion:119 Resp: 2891

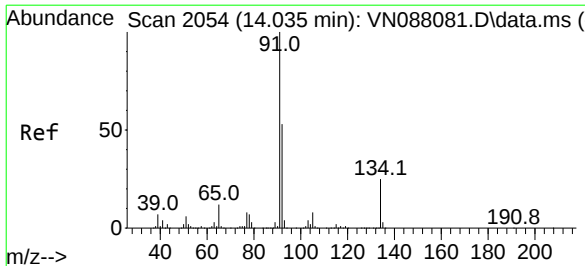
Ion Ratio Lower Upper

119 100

134 19.9 12.7 38.0

91 28.2 12.5 37.5





#89

n-Butylbenzene

Concen: 0.302 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.006 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

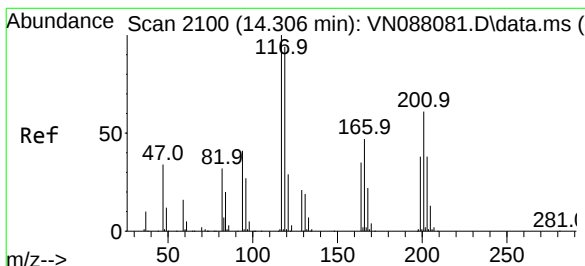
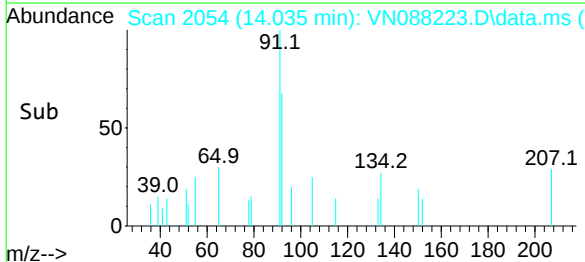
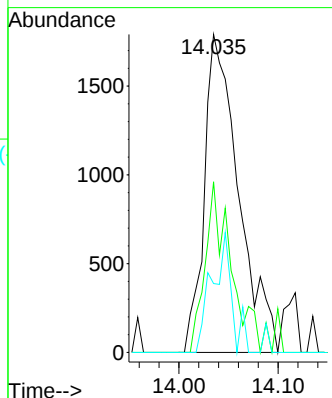
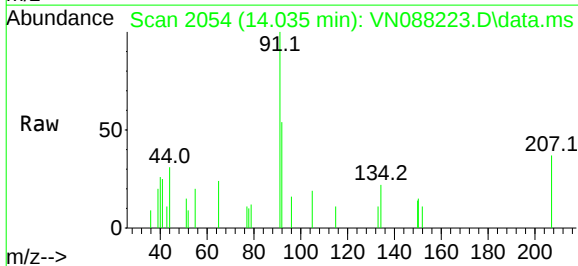
Instrument :

MSVOA_N

ClientSampleId :

VN1107MBL01

Tgt Ion:	91	Resp:	4301
Ion	Ratio	Lower	Upper
91	100		
92	40.5	25.9	77.8
134	21.8	11.7	35.0



#90

Hexachloroethane

Concen: 0.249 ug/l

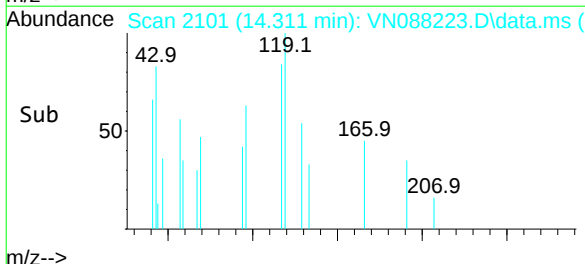
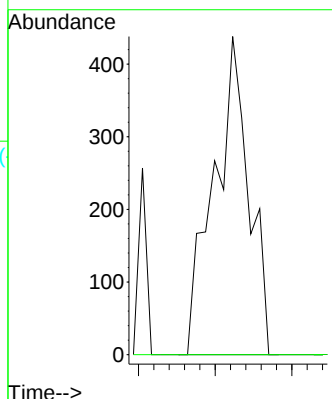
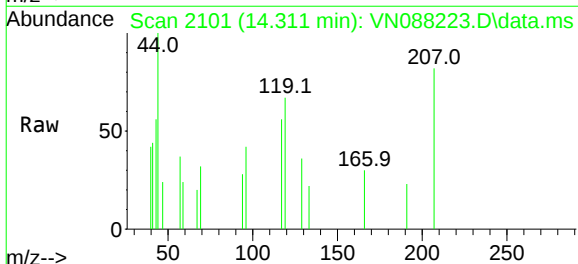
RT: 14.311 min Scan# 2101

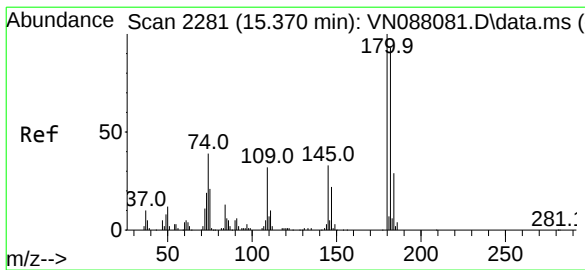
Delta R.T. -0.000 min

Lab File: VN088223.D

Acq: 07 Nov 2025 10:39

Tgt Ion:	117	Resp:	692
Ion	Ratio	Lower	Upper
117	100		
201	0.0	29.1	87.4

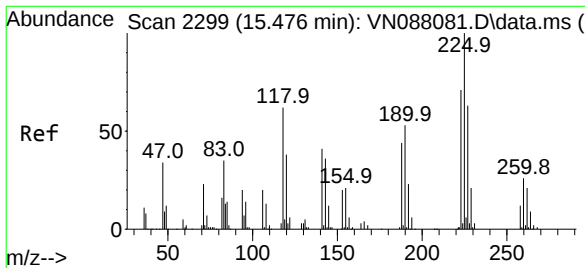
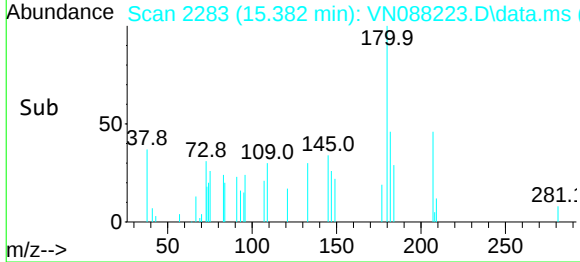
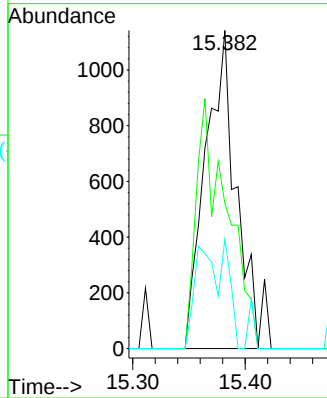
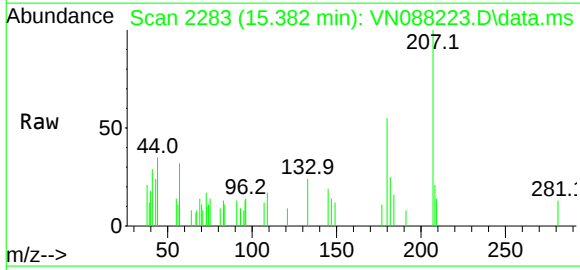




#93
1,2,4-Trichlorobenzene
Concen: 0.535 ug/l
RT: 15.382 min Scan# 2281
Delta R.T. 0.017 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

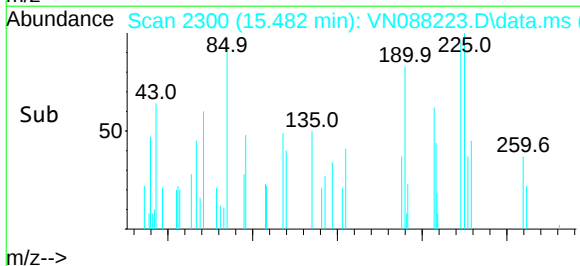
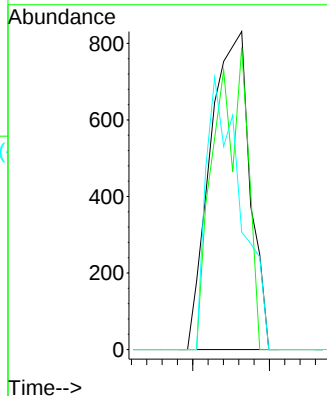
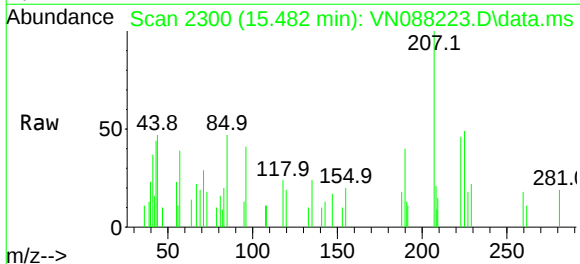
Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01

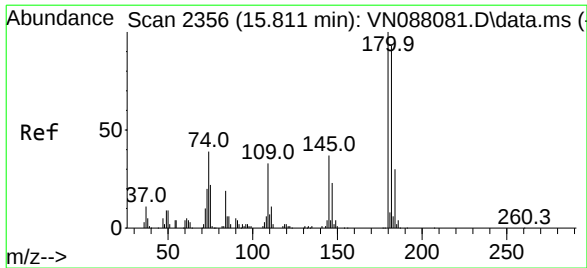
Tgt Ion:	180	Resp:	2209
Ion Ratio	Lower	Upper	
180	100		
182	76.6	47.6	142.9
145	31.6	16.5	49.5



#94
Hexachlorobutadiene
Concen: 0.969 ug/l
RT: 15.482 min Scan# 2300
Delta R.T. 0.006 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

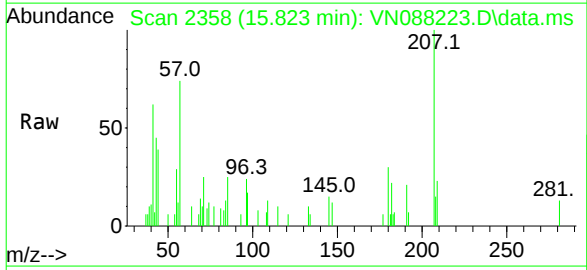
Tgt Ion:	225	Resp:	1491
Ion Ratio	Lower	Upper	
225	100		
223	78.7	32.0	96.2
227	74.6	32.1	96.5





#96
1,2,3-Trichlorobenzene
Concen: 0.468 ug/l
RT: 15.823 min Scan# 23
Delta R.T. 0.012 min
Lab File: VN088223.D
Acq: 07 Nov 2025 10:39

Instrument :
MSVOA_N
ClientSampleId :
VN1107MBL01



Tgt Ion:	180	Resp:	1856
Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.8	140.3#
145	18.0	17.3	52.0

