

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
 Data File : VN086829.D
 Acq On : 30 May 2025 12:49
 Operator : JC\MD
 Sample : VN0530WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0530WBL01

Quant Time: May 31 03:46:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

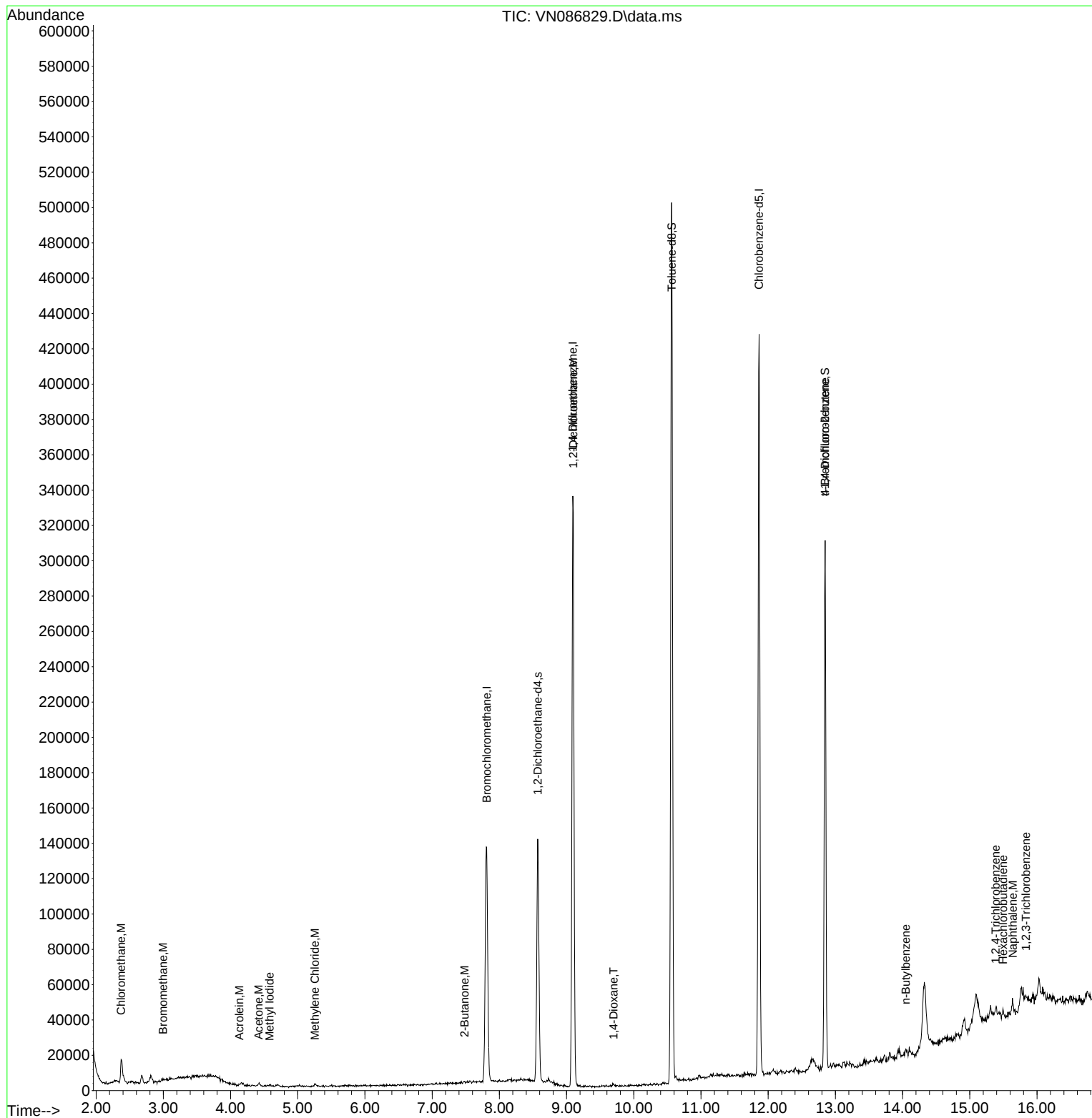
Internal Standards						
1) Bromochloromethane	7.812	128	53111	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	315124	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	262457	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	112146	30.732	ug/l	0.00
Spiked Amount	30.000	Range 91 - 110	Recovery	= 102.433%		
60) 4-Bromofluorobenzene	12.847	95	116776	28.339	ug/l	0.00
Spiked Amount	30.000	Range 63 - 112	Recovery	= 94.467%		
63) Toluene-d8	10.565	98	366536	30.427	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112	Recovery	= 101.433%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	22490	4.836	ug/l	95
5) Bromomethane	2.995	94	563	0.248	ug/l	92
11) Methyl Iodide	4.583	142	1587	0.430	ug/l #	86
13) Acrolein	4.130	56	186	0.518	ug/l	94
15) Acetone	4.418	58	548	1.337	ug/l #	32
18) Methylene Chloride	5.253	84	756	0.208	ug/l #	57
30) 2-Butanone	7.482	43	967	0.476	ug/l #	52
36) 1,2-Dichloroethane	9.100	62	9439	2.137	ug/l #	72
45) 1,4-Dioxane	9.700	88	954	15.063	ug/l	95
77) t-1,4-Dichloro-2-butene	12.847	75	54675	33.154	ug/l #	14
85) n-Butylbenzene	14.047	91	2712	0.272	ug/l	93
89) 1,2,4-Trichlorobenzene	15.388	180	1426	0.536	ug/l	85
90) Hexachlorobutadiene	15.494	225	711	0.623	ug/l	82
91) Naphthalene	15.641	128	7207	0.776	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.835	180	1403	0.527	ug/l	93

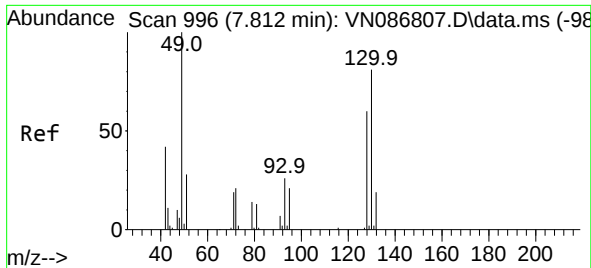
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
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VN0530WBL01

Quant Time: May 31 03:46:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 30 02:22:52 2025
Response via : Initial Calibration

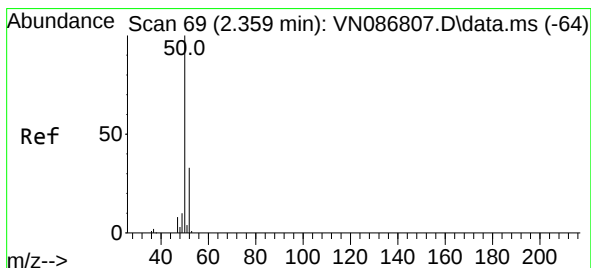
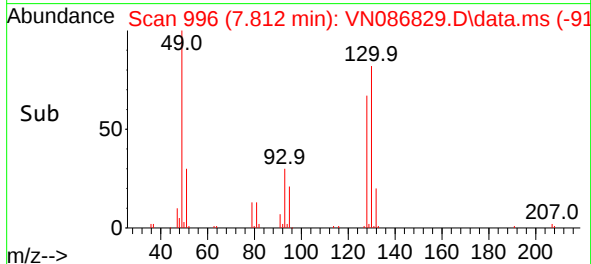
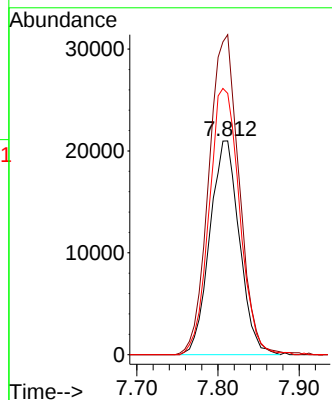
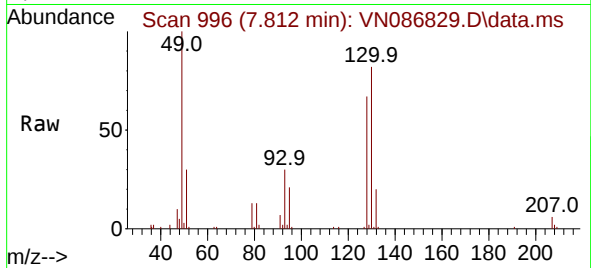




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

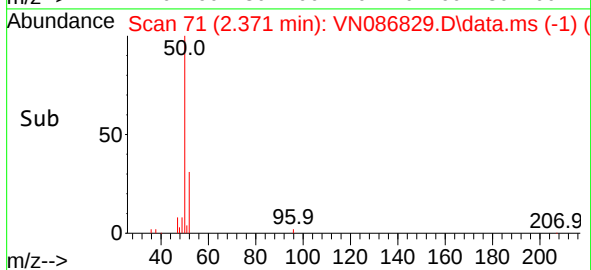
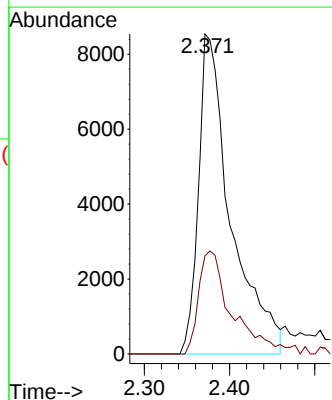
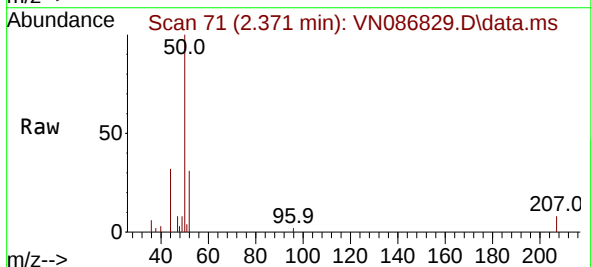
Instrument :
MSVOA_N
ClientSampleId :
VN0530WBL01

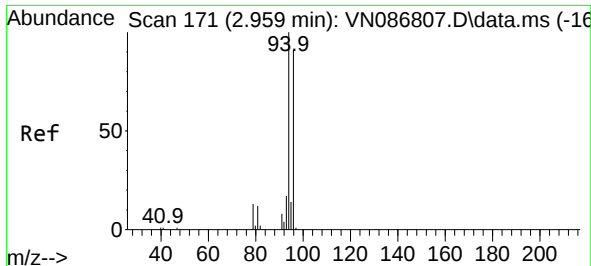
Tgt Ion:128 Resp: 53111
Ion Ratio Lower Upper
128 100
49 153.5 0.0 404.5
130 128.2 0.0 322.2



#3
Chloromethane
Concen: 4.836 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.012 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

Tgt Ion: 50 Resp: 22490
Ion Ratio Lower Upper
50 100
52 30.7 26.6 40.0

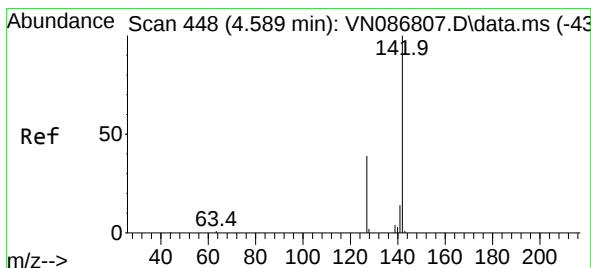
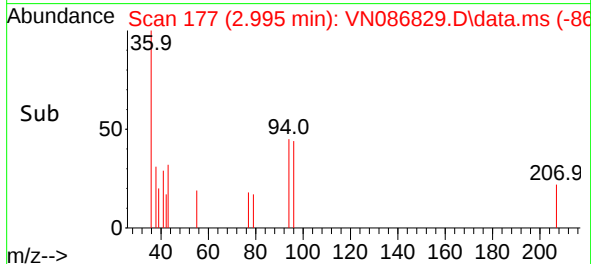
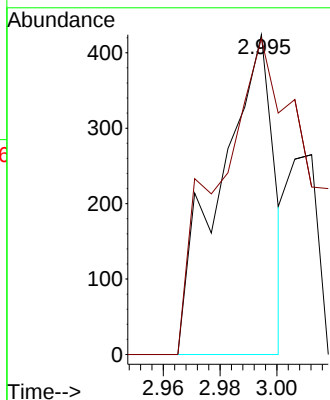
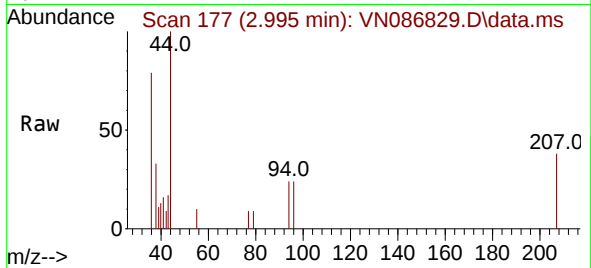




#5
Bromomethane
Concen: 0.248 ug/l
RT: 2.995 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

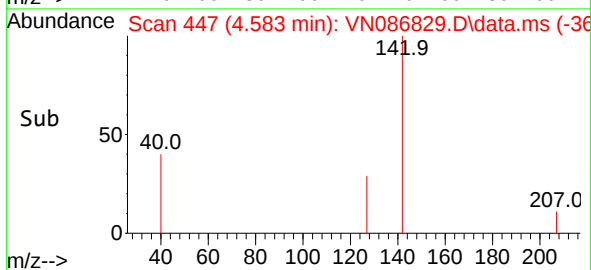
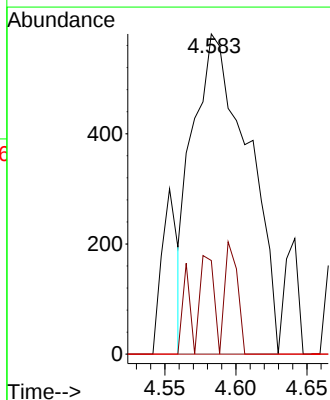
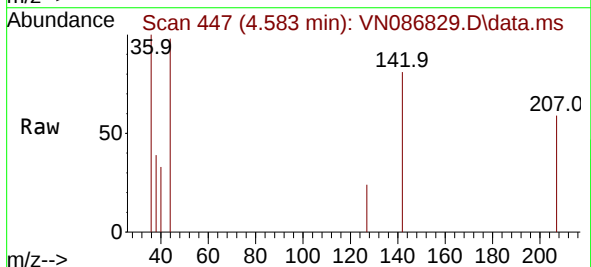
Instrument :
MSVOA_N
ClientSampleId :
VN0530WBL01

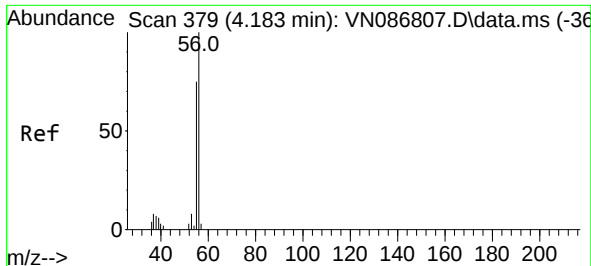
Tgt Ion: 94 Resp: 563
Ion Ratio Lower Upper
94 100
96 98.8 72.7 109.1



#11
Methyl Iodide
Concen: 0.430 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

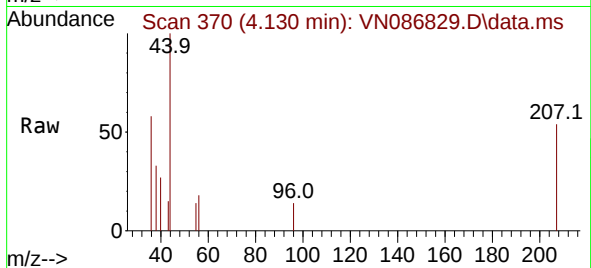
Tgt Ion: 142 Resp: 1587
Ion Ratio Lower Upper
142 100
127 35.1 19.5 58.5
141 0.0 7.1 21.4#



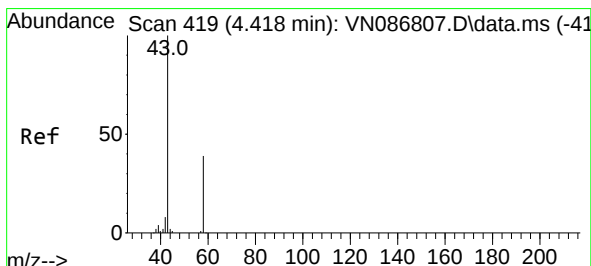
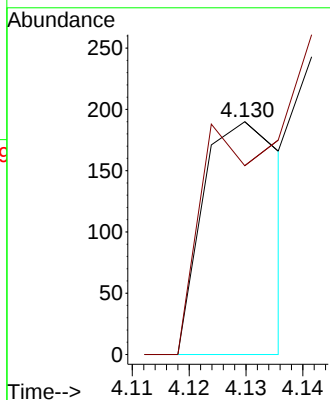
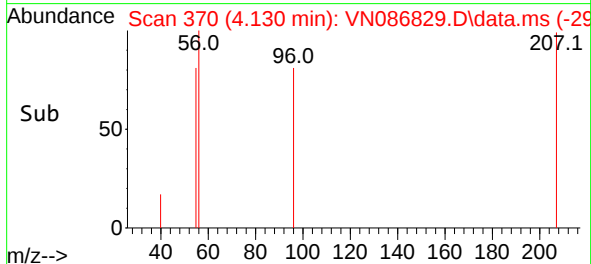


#13
Acrolein
Concen: 0.518 ug/l
RT: 4.130 min Scan# 31
Delta R.T. -0.053 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

Instrument :
MSVOA_N
ClientSampleId :
VN0530WBL01

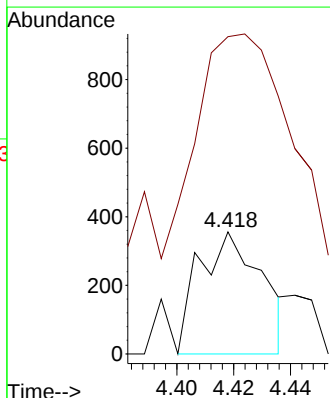
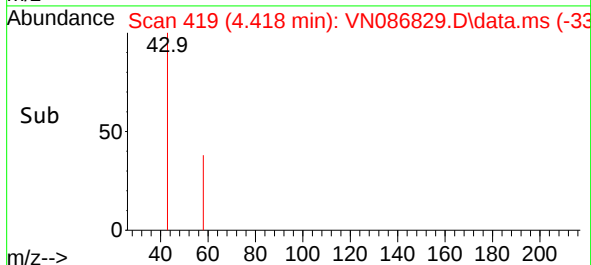
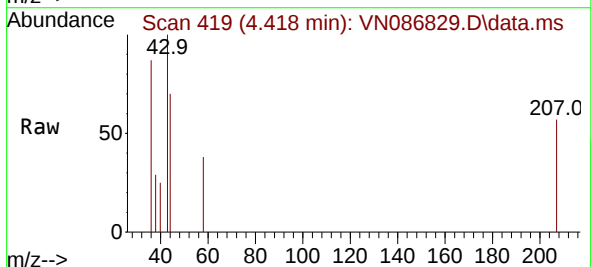


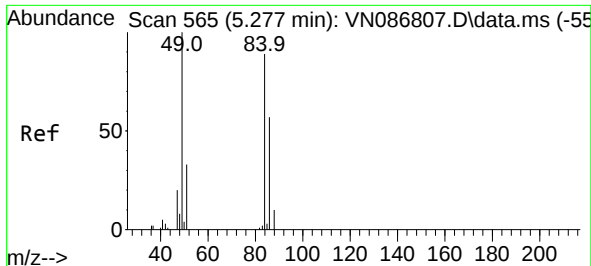
Tgt Ion: 56 Resp: 186
Ion Ratio Lower Upper
56 100
55 65.1 55.9 83.9



#15
Acetone
Concen: 1.337 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

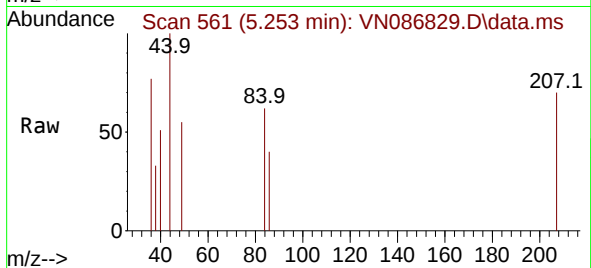
Tgt Ion: 58 Resp: 548
Ion Ratio Lower Upper
58 100
43 137.4 207.7 311.5#



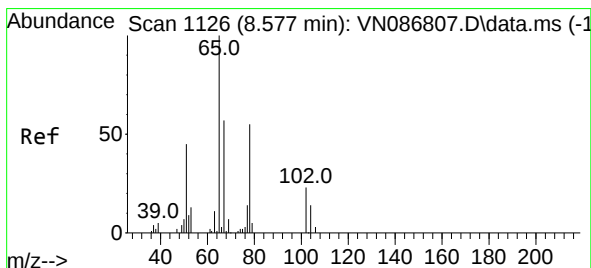
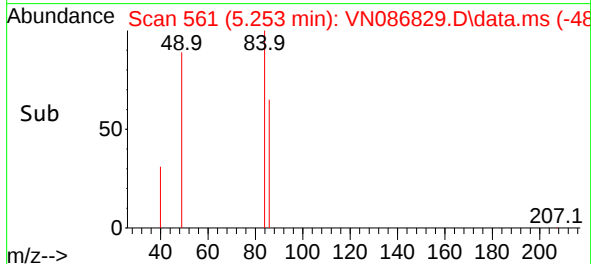
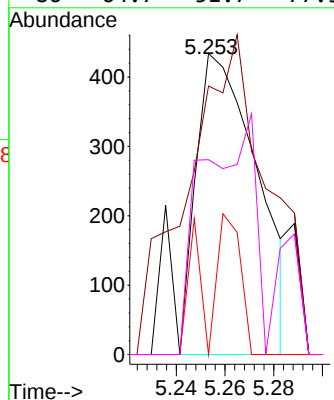


#18
Methylene Chloride
Concen: 0.208 ug/l
RT: 5.253 min Scan# 51
Delta R.T. -0.024 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

Instrument :
MSVOA_N
ClientSampleId :
VN0530WBL01

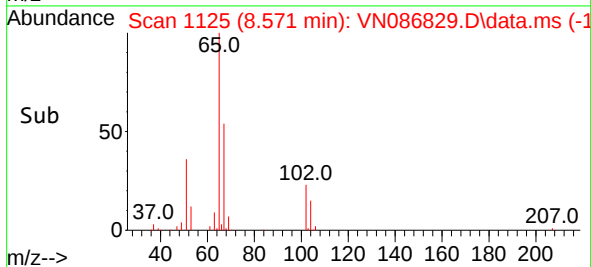
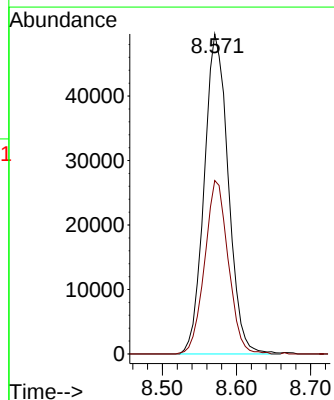
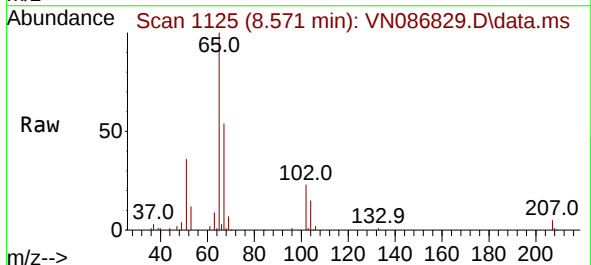


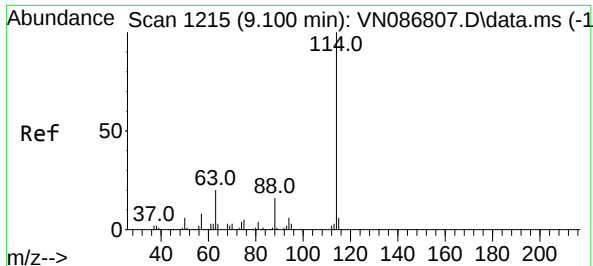
Tgt Ion	84	Resp:	756
Ion	Ratio	Lower	Upper
84	100		
49	46.5	89.9	134.9#
51	0.0	29.6	44.4#
86	64.7	51.7	77.5



#27
1,2-Dichloroethane-d4
Concen: 30.732 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

Tgt Ion	65	Resp:	112146
Ion	Ratio	Lower	Upper
65	100		
67	53.1	44.6	67.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

Instrument :

MSVOA_N

ClientSampleId :

VN0530WBL01

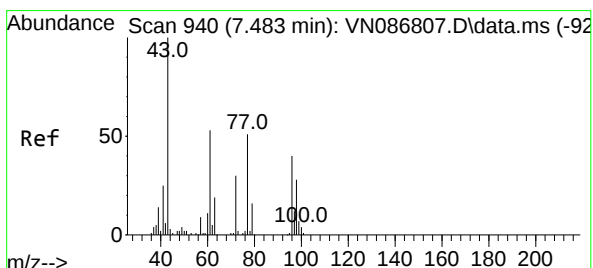
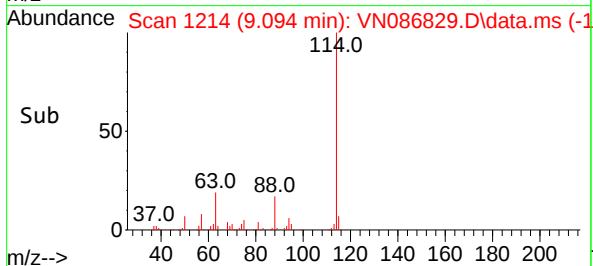
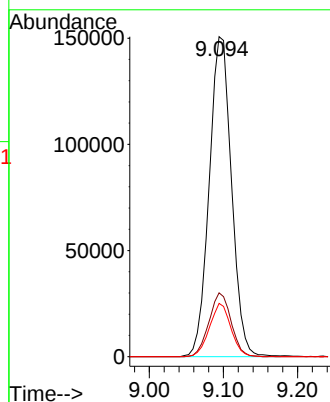
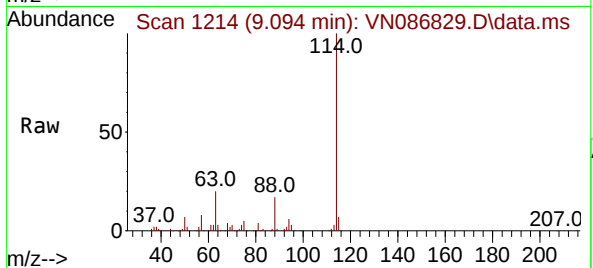
Tgt Ion:114 Resp: 315124

Ion Ratio Lower Upper

114 100

63 19.7 15.8 23.8

88 16.0 12.9 19.3



#30

2-Butanone

Concen: 0.476 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

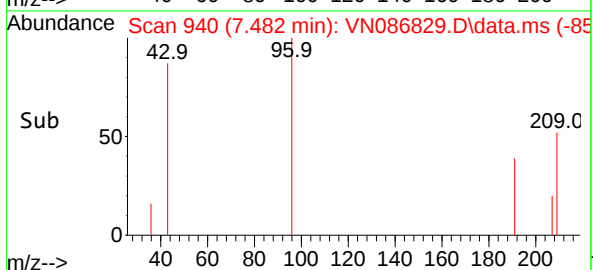
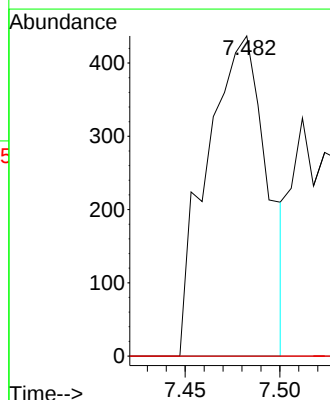
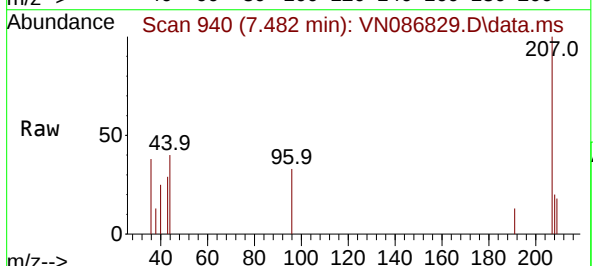
Tgt Ion: 43 Resp: 967

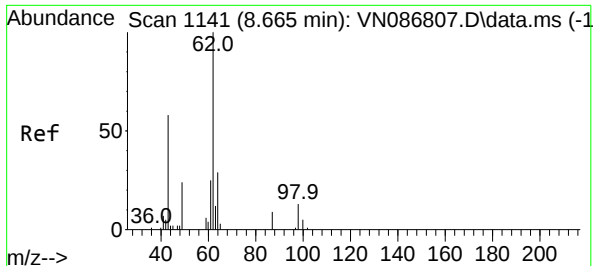
Ion Ratio Lower Upper

43 100

57 0.0 6.8 10.2#

72 0.0 23.4 35.0#





#36

1,2-Dichloroethane

Concen: 2.137 ug/l

RT: 9.100 min Scan# 1141

Delta R.T. 0.435 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

Instrument :

MSVOA_N

ClientSampleId :

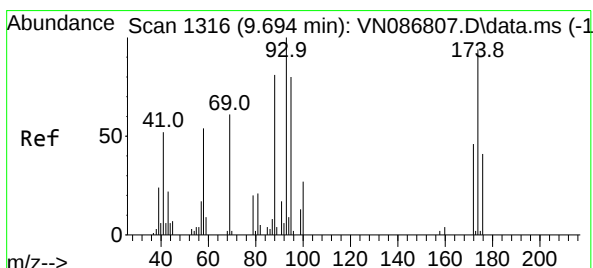
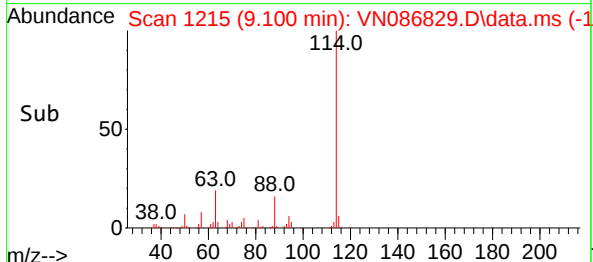
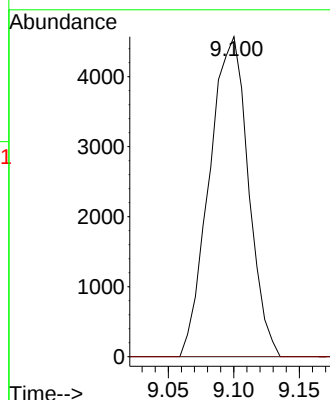
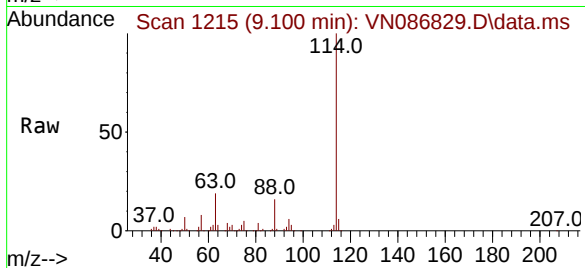
VN0530WBL01

Tgt Ion: 62 Resp: 9439

Ion Ratio Lower Upper

62 100

98 0.0 8.5 12.7#



#45

1,4-Dioxane

Concen: 15.063 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

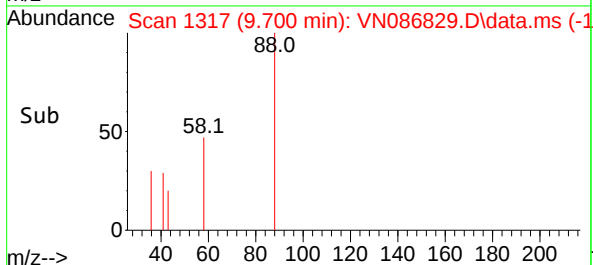
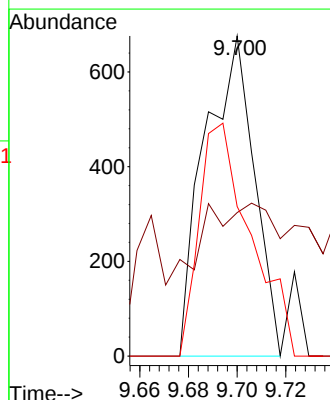
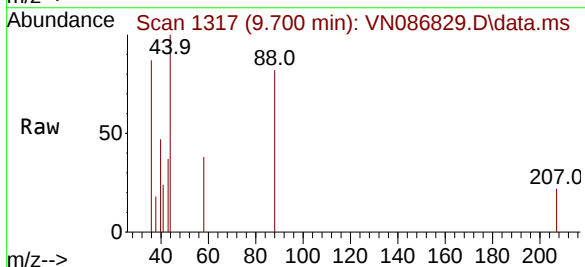
Tgt Ion: 88 Resp: 954

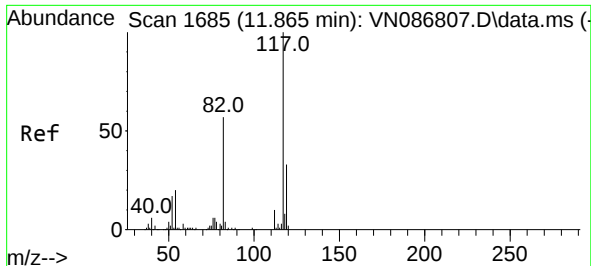
Ion Ratio Lower Upper

88 100

43 31.6 23.0 34.6

58 75.7 57.6 86.4





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

Instrument :

MSVOA_N

ClientSampleId :

VN0530WBL01

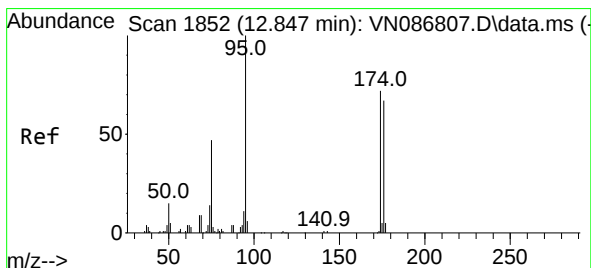
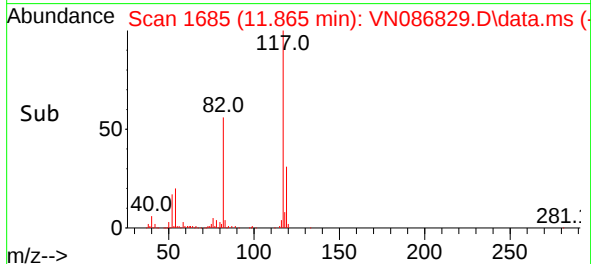
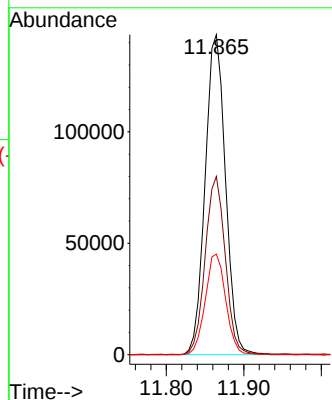
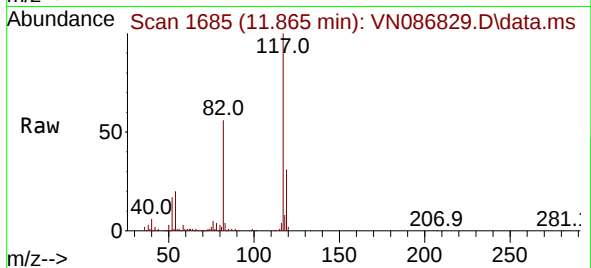
Tgt Ion:117 Resp: 262457

Ion Ratio Lower Upper

117 100

82 54.7 44.7 67.1

119 31.6 25.6 38.4



#60

4-Bromofluorobenzene

Concen: 28.339 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

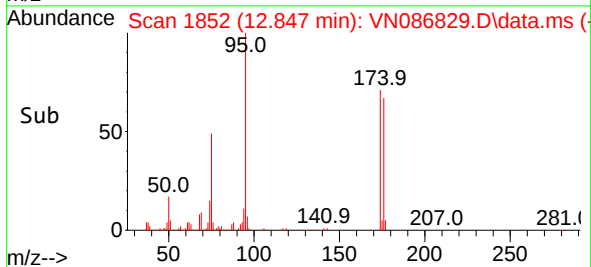
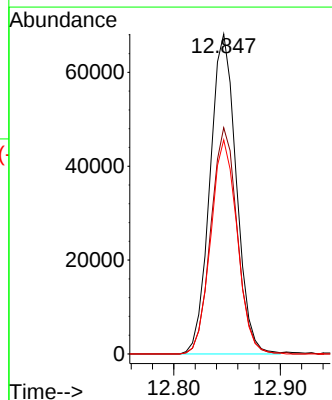
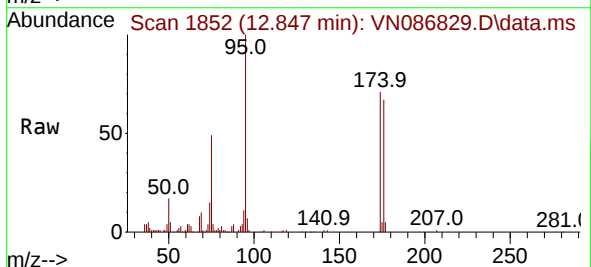
Tgt Ion: 95 Resp: 116776

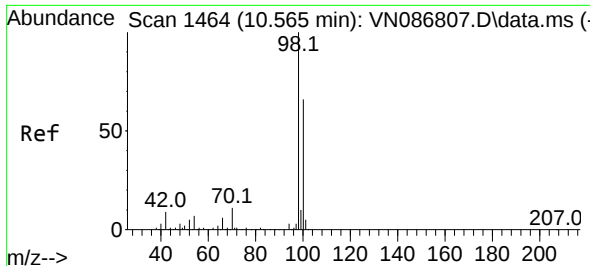
Ion Ratio Lower Upper

95 100

174 70.7 56.2 84.4

176 67.3 53.4 80.0

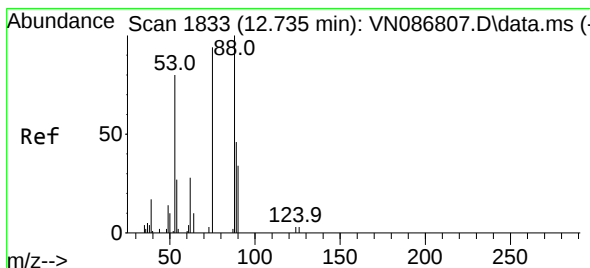
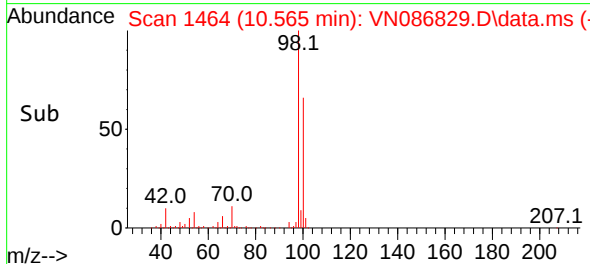
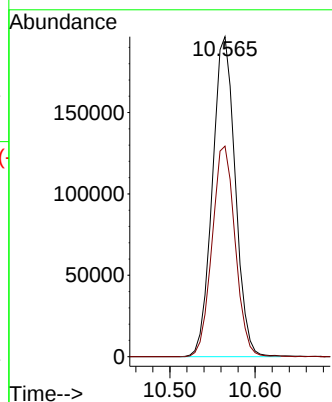
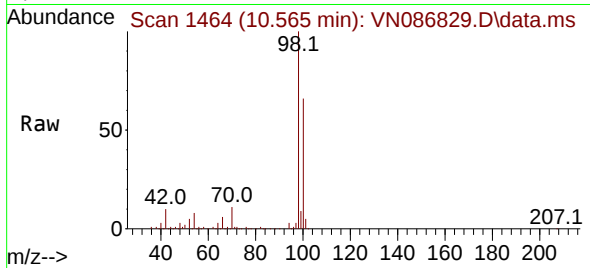




#63
Toluene-d8
Concen: 30.427 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

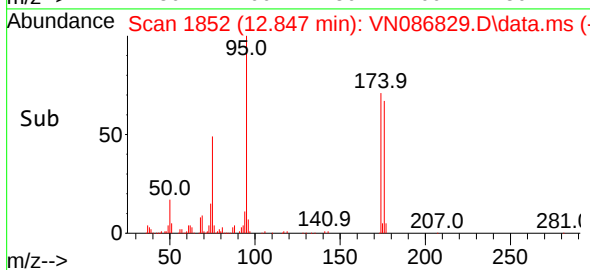
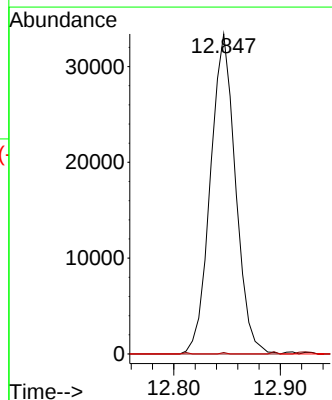
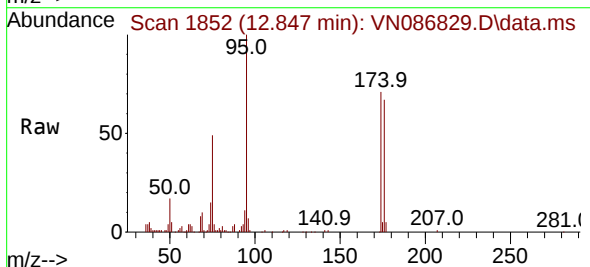
Instrument :
MSVOA_N
ClientSampleId :
VN0530WBL01

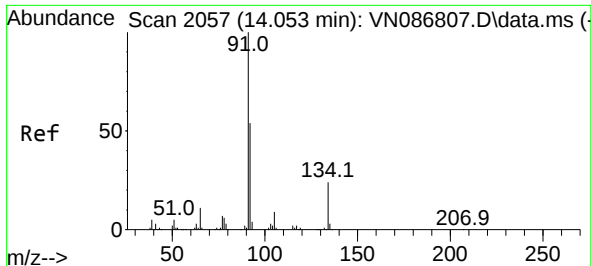
Tgt Ion: 98 Resp: 366536
Ion Ratio Lower Upper
98 100
100 66.2 52.7 79.1



#77
t-1,4-Dichloro-2-butene
Concen: 33.154 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

Tgt Ion: 75 Resp: 54675
Ion Ratio Lower Upper
75 100
53 0.4 43.0 128.8#
89 0.0 25.4 76.2#

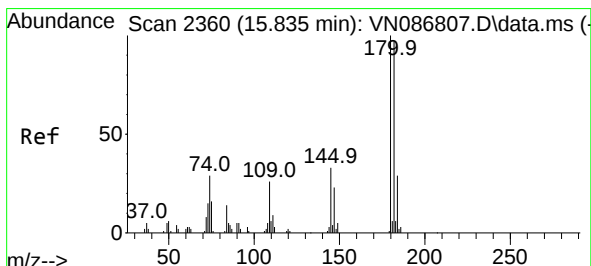
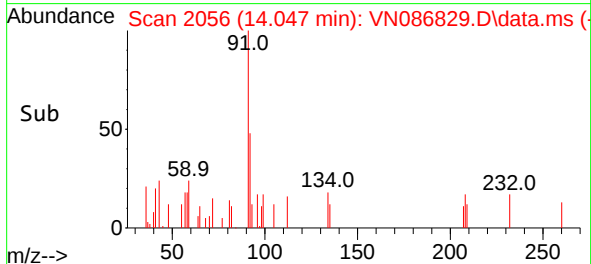
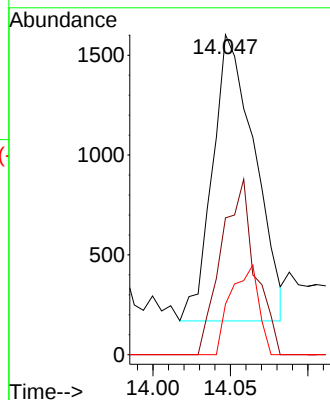
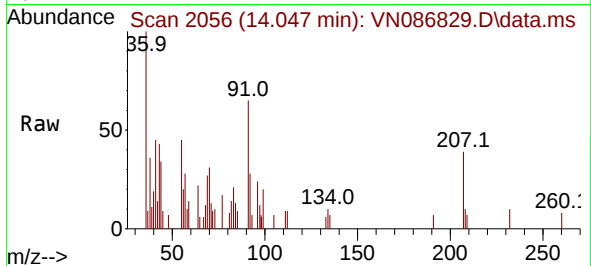




#85
n-Butylbenzene
Concen: 0.272 ug/l
RT: 14.047 min Scan# 2056
Delta R.T. -0.006 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

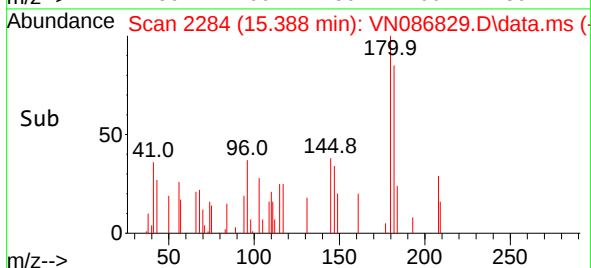
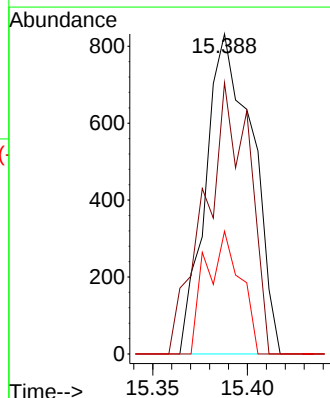
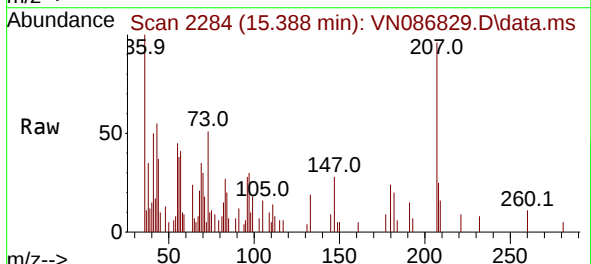
Instrument :
MSVOA_N
ClientSampleId :
VN0530WBL01

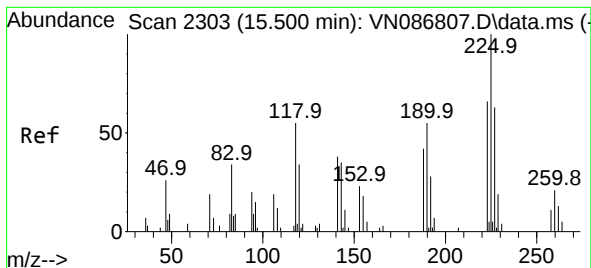
Tgt Ion: 91	Resp: 2712
Ion Ratio	Lower Upper
91	100
92	49.3 0.0 107.6
134	20.8 0.0 50.0



#89
1,2,4-Trichlorobenzene
Concen: 0.536 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.447 min
Lab File: VN086829.D
Acq: 30 May 2025 12:49

Tgt Ion: 180	Resp: 1426
Ion Ratio	Lower Upper
180	100
182	81.3 78.2 117.2
145	28.5 28.0 42.0





#90

Hexachlorobutadiene

Concen: 0.623 ug/l

RT: 15.494 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

Instrument :

MSVOA_N

ClientSampleId :

VN0530WBL01

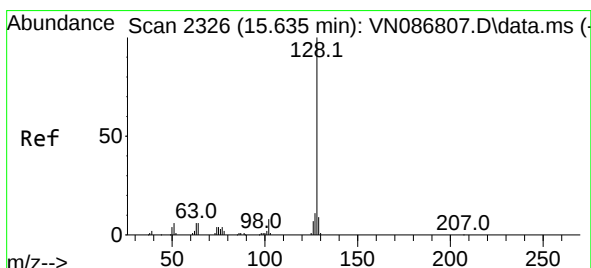
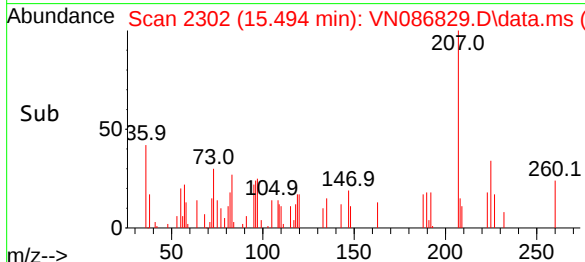
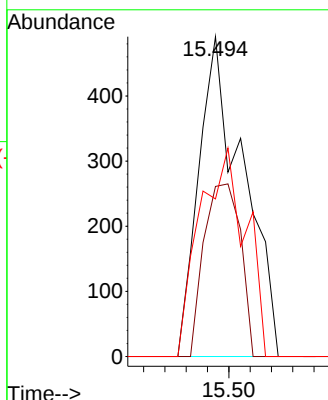
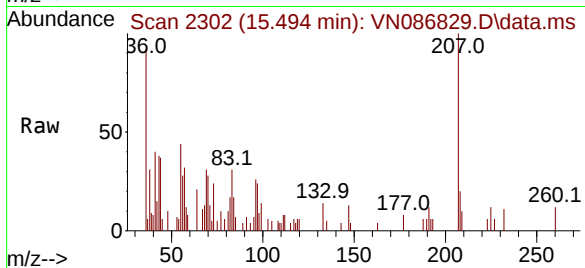
Tgt Ion:225 Resp: 711

Ion Ratio Lower Upper

225 100

223 44.4 0.0 135.8

227 67.5 0.0 125.0



#91

Naphthalene

Concen: 0.776 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN086829.D

Acq: 30 May 2025 12:49

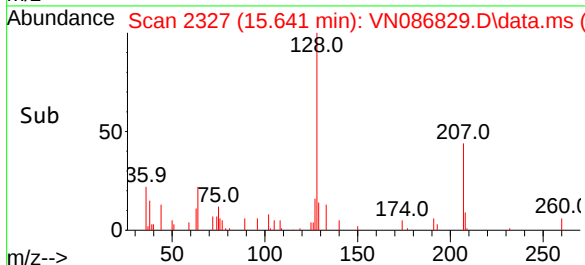
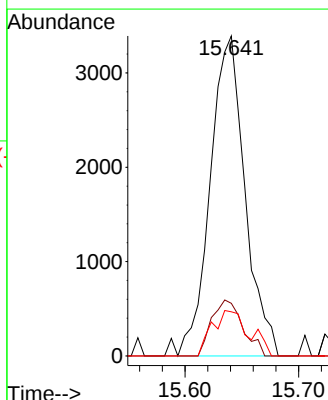
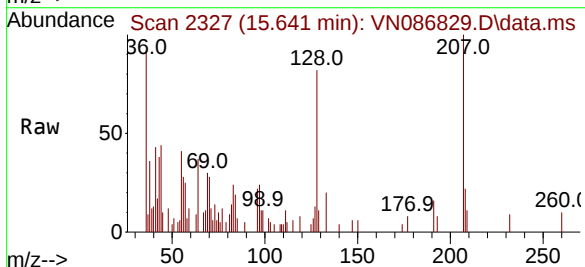
Tgt Ion:128 Resp: 7207

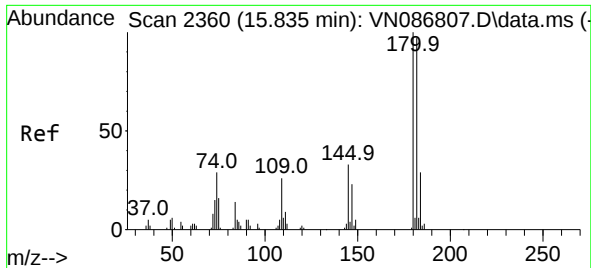
Ion Ratio Lower Upper

128 100

127 15.7 9.8 14.6#

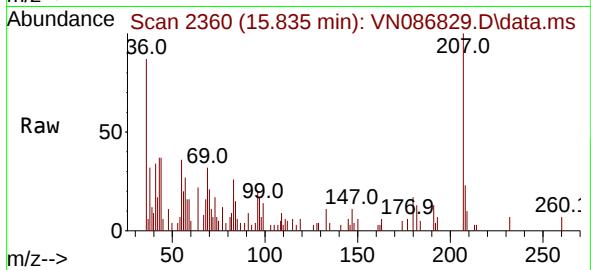
129 12.9 8.6 13.0





#92
 1,2,3-Trichlorobenzene
 Concen: 0.527 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086829.D
 Acq: 30 May 2025 12:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0530WBL01



Tgt Ion:	180	Resp:	1403
Ion	Ratio	Lower	Upper
180	100		
182	100.9	0.0	195.4
145	25.1	0.0	70.0

