

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041825\
 Data File : VN086346.D
 Acq On : 18 Apr 2025 16:07
 Operator : JC\MD
 Sample : PB167623ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#11

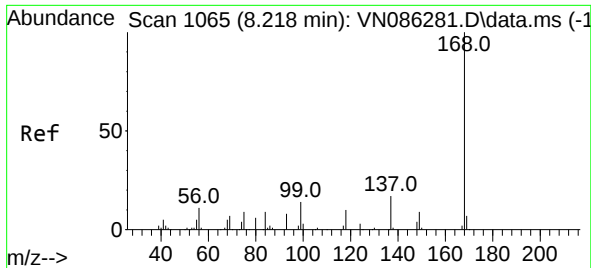
Quant Time: Apr 19 02:27:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	190477	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	365011	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	344723	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	137077	49.628	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.260%
35) Dibromofluoromethane	8.165	113	89817	53.019	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.040%
50) Toluene-d8	10.565	98	464729	51.329	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.660%
62) 4-Bromofluorobenzene	12.847	95	169237	51.248	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.500%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	766	0.233	ug/l	98
11) Tert butyl alcohol	5.530	59	585	1.161	ug/l #	72
13) Acrolein	4.194	56	56	Below Cal	#	13
16) Acetone	4.424	43	35238	31.921	ug/l	99
18) Methyl Acetate	5.035	43	4056	1.223	ug/l #	73
20) Methylene Chloride	5.271	84	4374	1.713	ug/l	97
25) 2-Butanone	7.482	43	6497	3.779	ug/l #	88
29) Tetrahydrofuran	7.841	42	548	0.477	ug/l #	41
31) Cyclohexane	8.224	56	4632	1.035	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16199	4.787	ug/l #	50
37) Ethyl Acetate	7.559	43	776	0.218	ug/l #	68
38) Carbon Tetrachloride	8.224	117	19275	5.982	ug/l #	15
43) Isopropyl Acetate	8.688	43	44790	5.235	ug/l #	76
45) 1,2-Dichloropropane	9.729	63	989	0.373	ug/l #	43
48) Methyl methacrylate	9.741	41	71616	22.893	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4423	1.213	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	38316	8.558	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3563	0.825	ug/l #	43
59) 2-Hexanone	11.200	43	69473	25.677	ug/l #	41
71) Bromoform	12.847	173	786	0.411	ug/l #	1
74) N-amyl acetate	12.459	43	3806	0.617	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	85625	23.956	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85625	57.534	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.694	75	413	0.575	ug/l #	5

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
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Response via : Initial Calibration

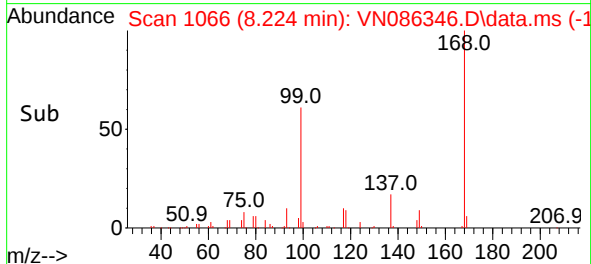
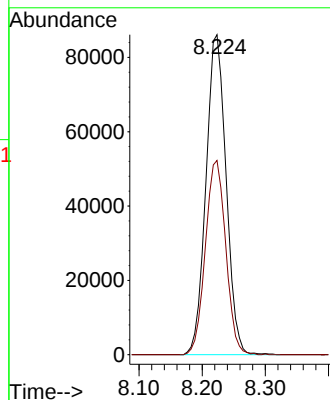
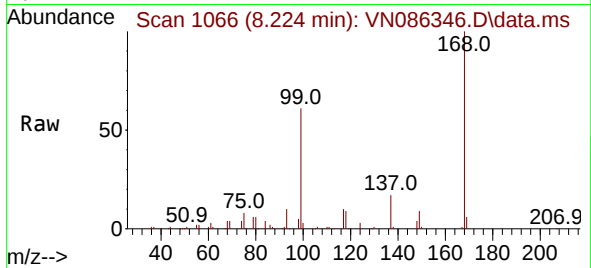




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

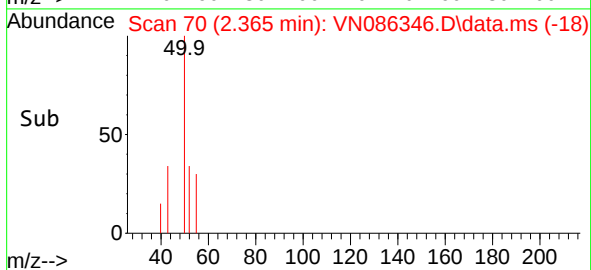
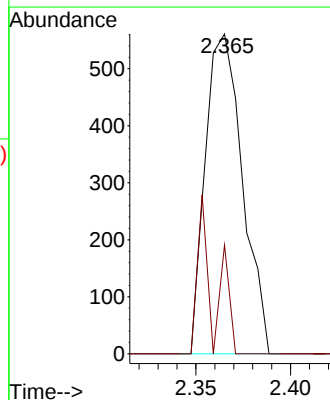
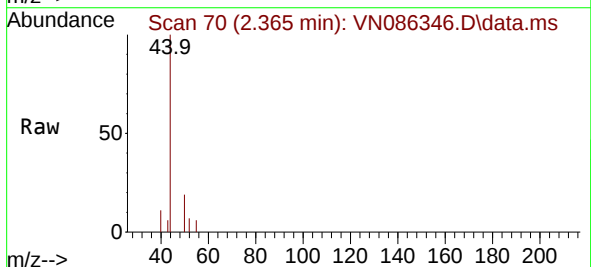
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

Tgt Ion:168 Resp: 190477
Ion Ratio Lower Upper
168 100
99 60.7 52.5 78.7



#3
Chloromethane
Concen: 0.233 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 50 Resp: 766
Ion Ratio Lower Upper
50 100
52 34.0 26.5 39.7

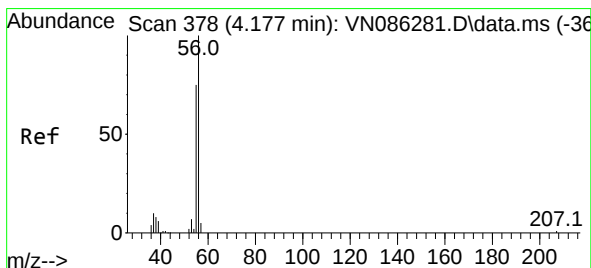
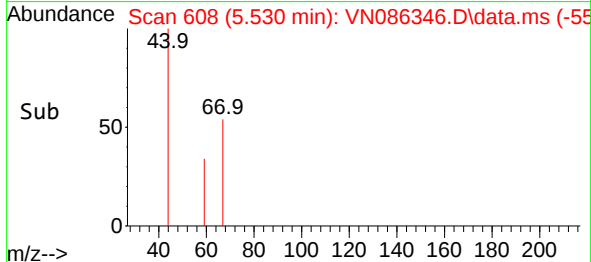
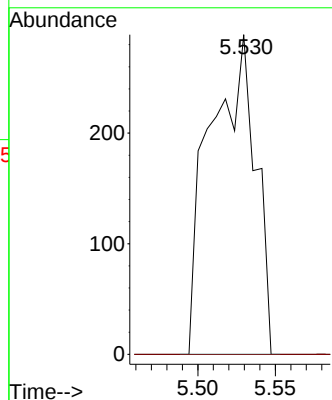
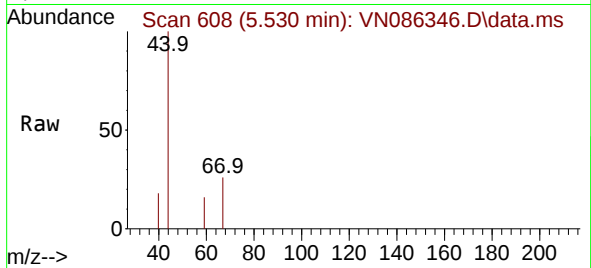




#11
Tert butyl alcohol
Concen: 1.161 ug/l
RT: 5.530 min Scan# 605
Delta R.T. 0.017 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

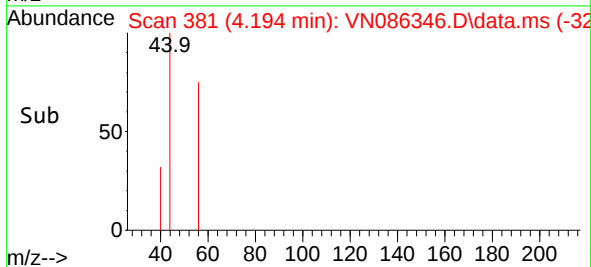
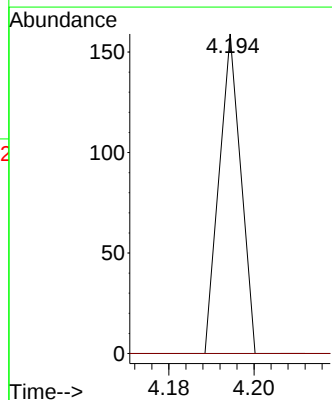
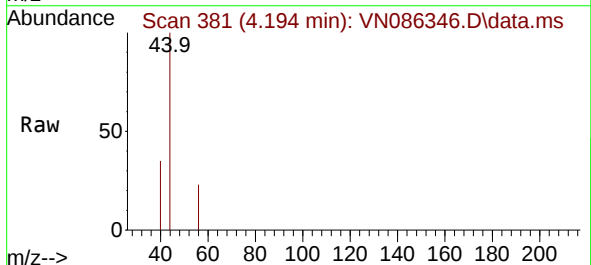
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

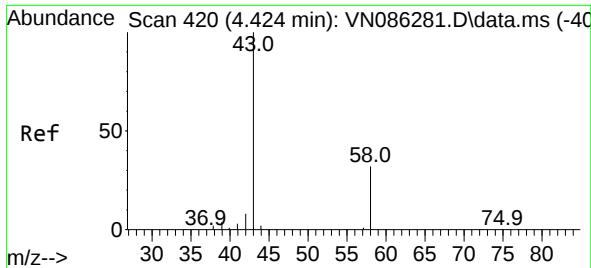
Tgt Ion: 59 Resp: 585
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 4.194 min Scan# 381
Delta R.T. 0.017 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

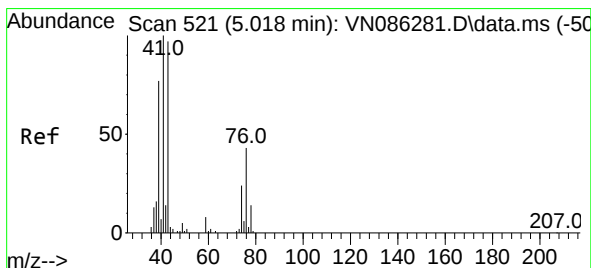
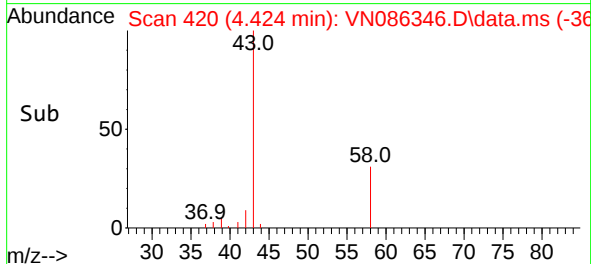
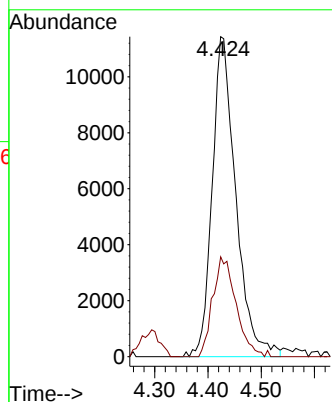
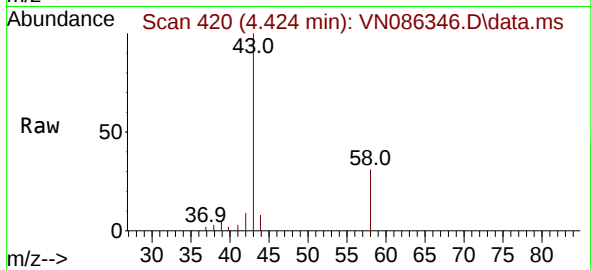




#16
Acetone
Concen: 31.921 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

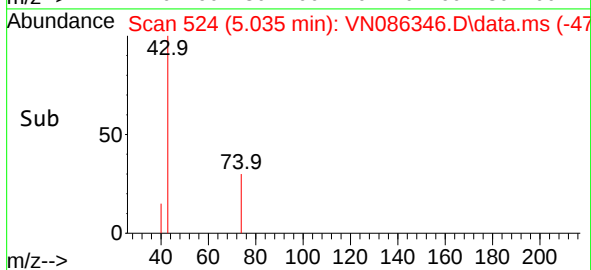
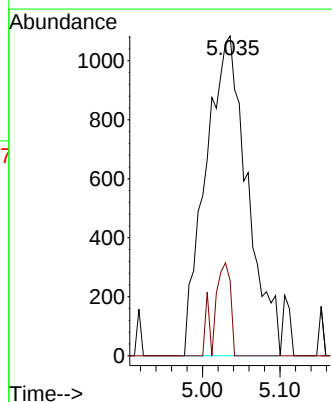
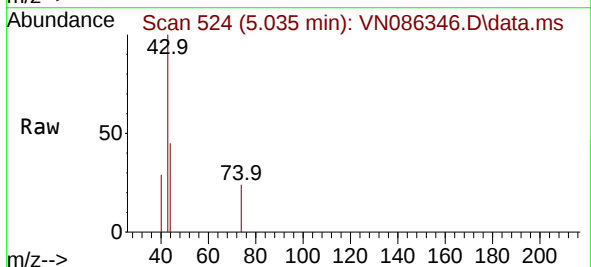
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

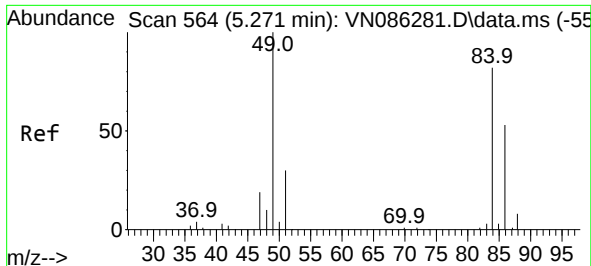
Tgt Ion: 43 Resp: 35238
Ion Ratio Lower Upper
43 100
58 31.2 25.3 37.9



#18
Methyl Acetate
Concen: 1.223 ug/l
RT: 5.035 min Scan# 524
Delta R.T. 0.017 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

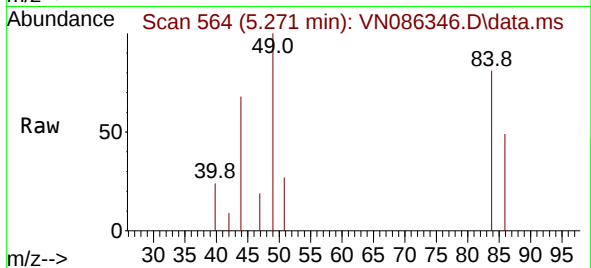
Tgt Ion: 43 Resp: 4056
Ion Ratio Lower Upper
43 100
74 11.2 19.8 29.6#



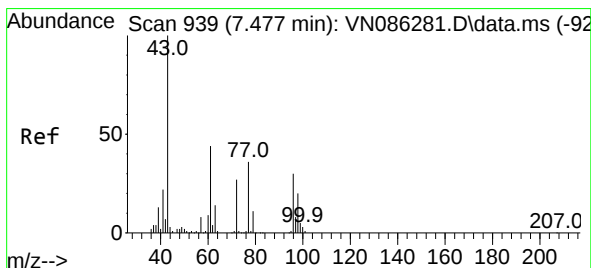
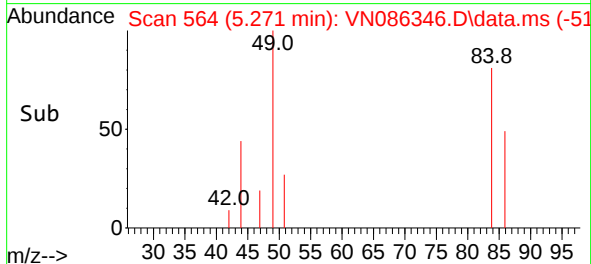
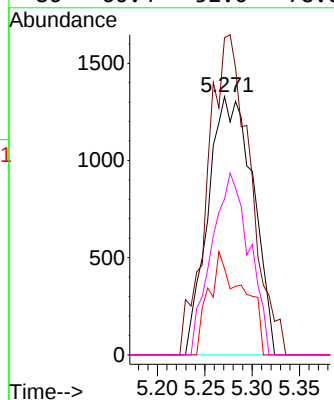


#20
Methylene Chloride
Concen: 1.713 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

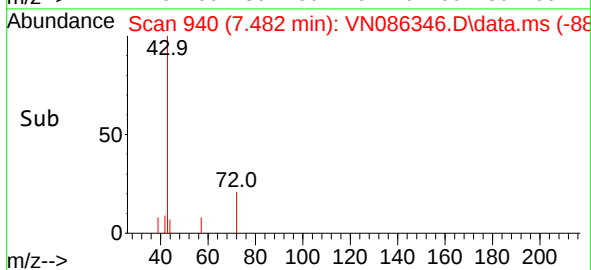
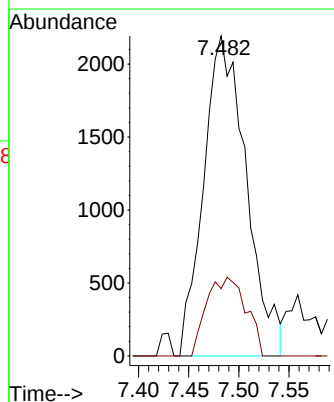
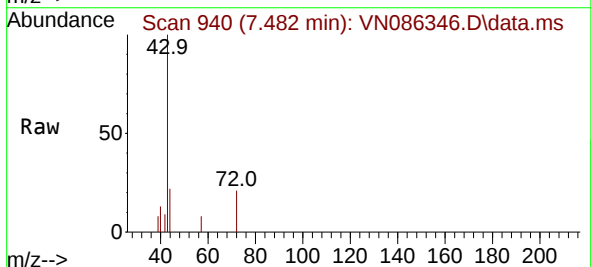


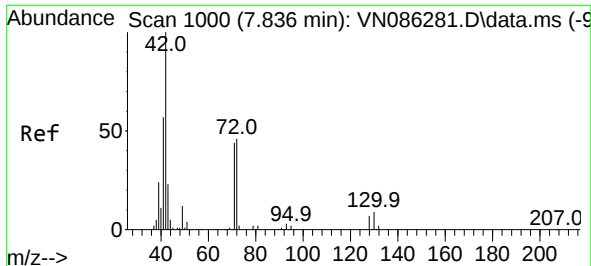
Tgt Ion: 84	Resp: 4374
Ion Ratio	Lower Upper
84 100	
49 122.8	98.2 147.2
51 33.4	29.8 44.6
86 60.4	52.0 78.0



#25
2-Butanone
Concen: 3.779 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 43	Resp: 6497		
Ion Ratio	Lower	Upper	
43 100			
72 21.0	21.7	32.5#	





#29

Tetrahydrofuran

Concen: 0.477 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086346.D

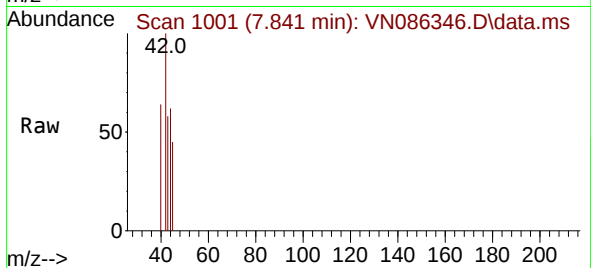
Acq: 18 Apr 2025 16:07

Instrument :

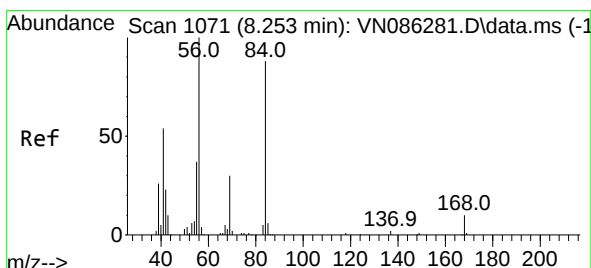
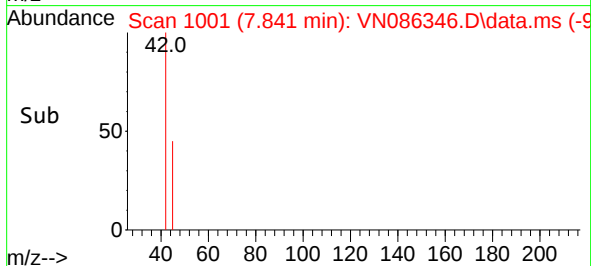
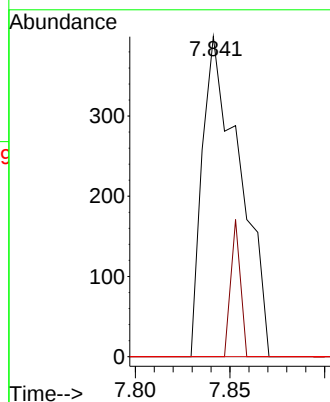
MSVOA_N

ClientSampleId :

PB167623ZHE#11



Tgt Ion:	42	Resp:	548
Ion Ratio	Lower	Upper	
42	100		
72	10.9	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 1.035 ug/l

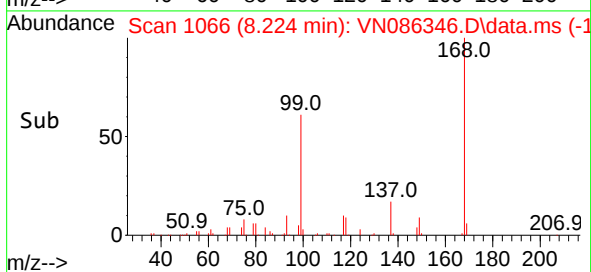
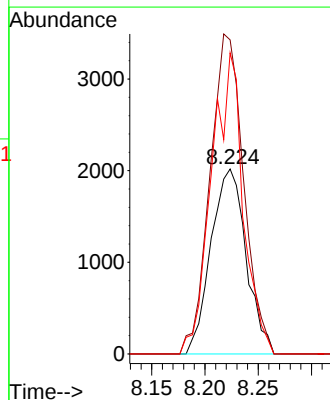
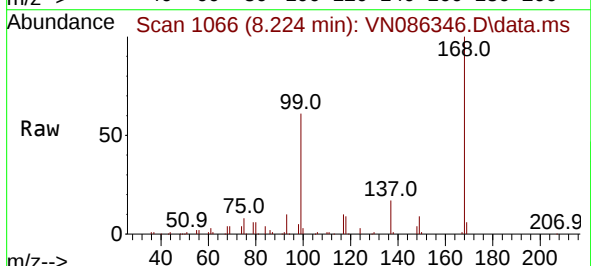
RT: 8.224 min Scan# 1066

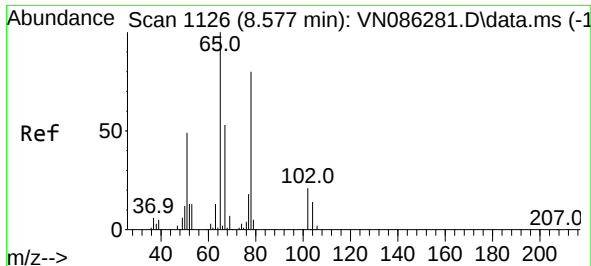
Delta R.T. -0.030 min

Lab File: VN086346.D

Acq: 18 Apr 2025 16:07

Tgt Ion:	56	Resp:	4632
Ion Ratio	Lower	Upper	
56	100		
69	169.8	24.2	36.2#
84	162.8	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.628 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086346.D

Acq: 18 Apr 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

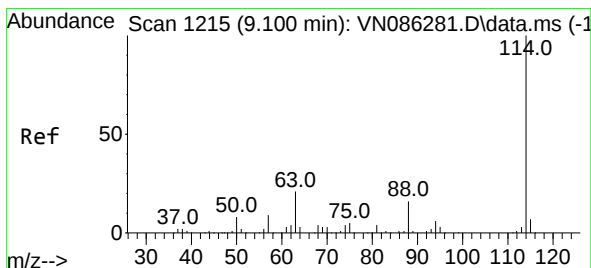
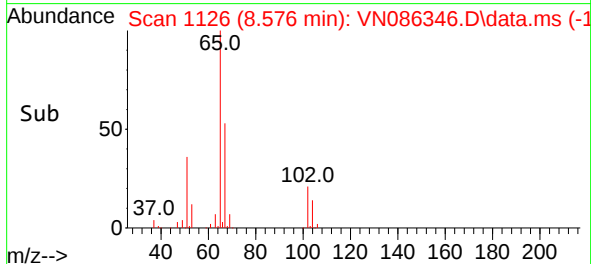
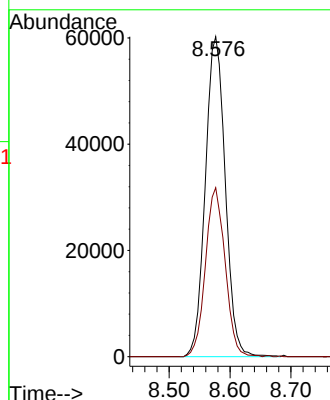
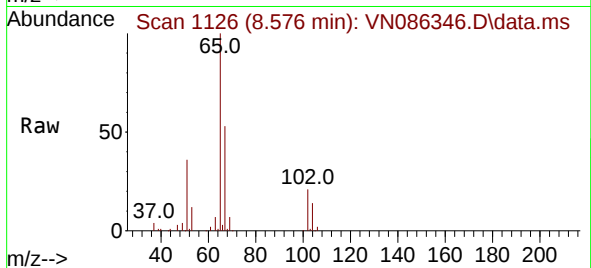
PB167623ZHE#11

Tgt Ion: 65 Resp: 137077

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086346.D

Acq: 18 Apr 2025 16:07

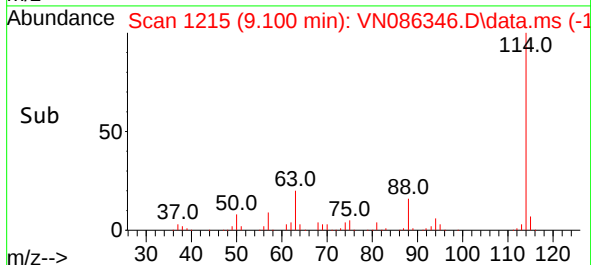
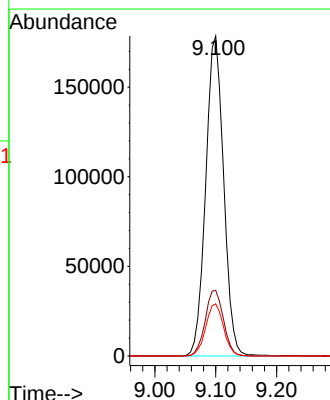
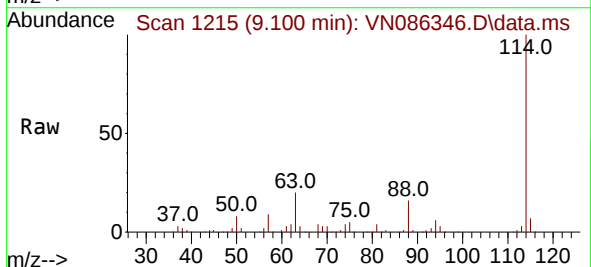
Tgt Ion: 114 Resp: 365011

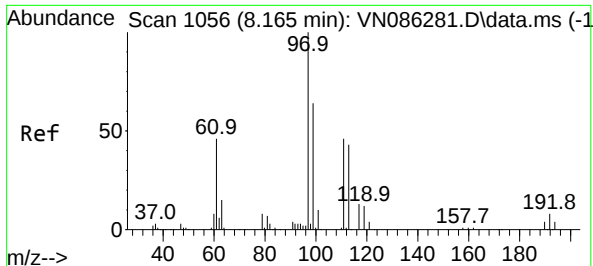
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

88 16.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.019 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

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PB167623ZHE#11

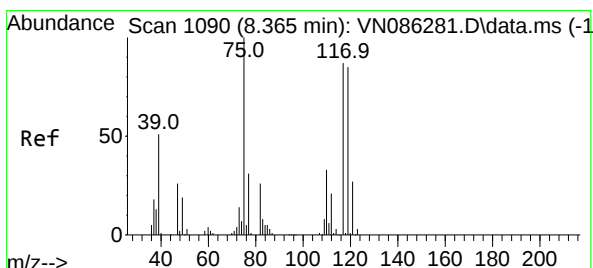
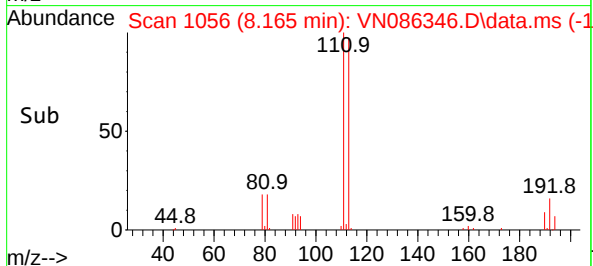
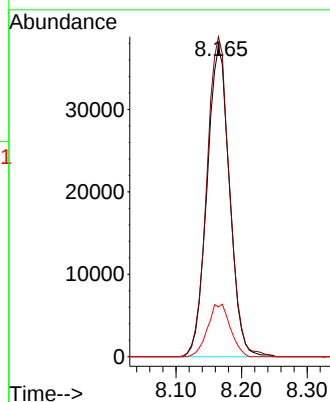
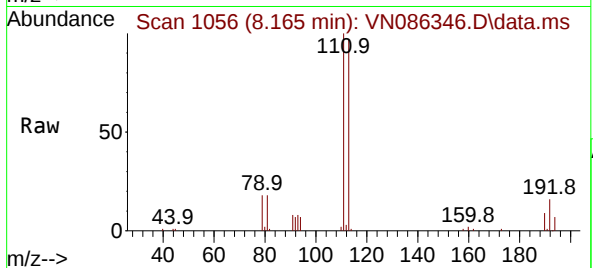
Tgt Ion:113 Resp: 89817

Ion Ratio Lower Upper

113 100

111 103.8 83.4 125.0

192 17.1 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.787 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086346.D

Acq: 18 Apr 2025 16:07

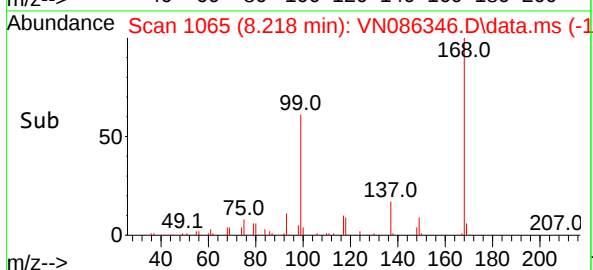
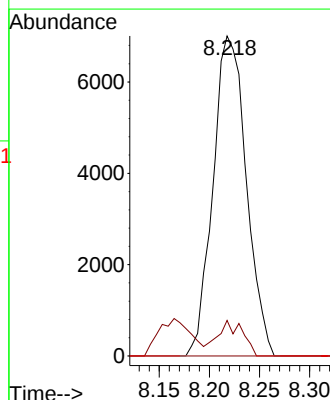
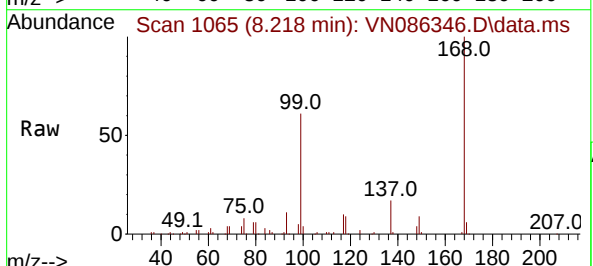
Tgt Ion: 75 Resp: 16199

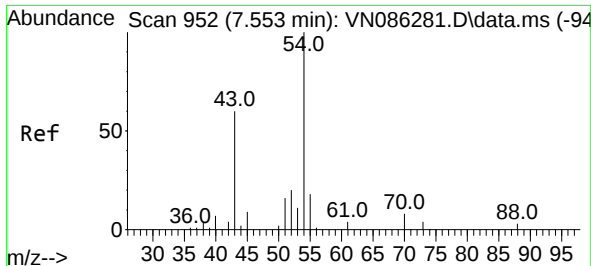
Ion Ratio Lower Upper

75 100

110 8.4 16.8 50.4#

77 0.0 24.9 37.3#

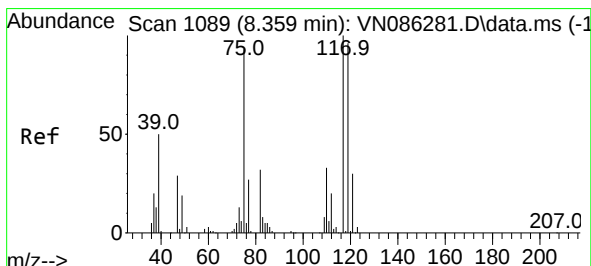
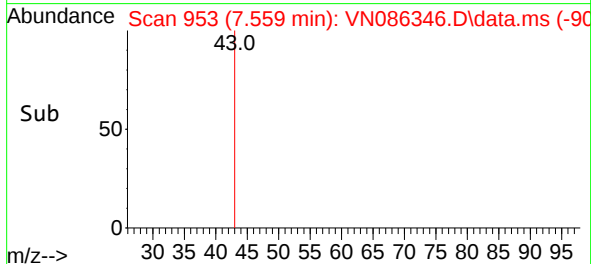
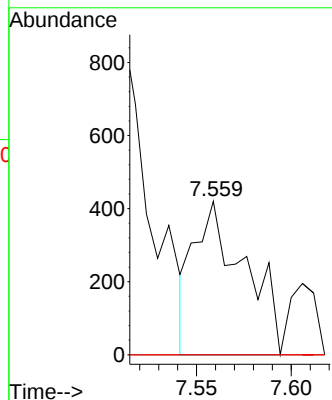
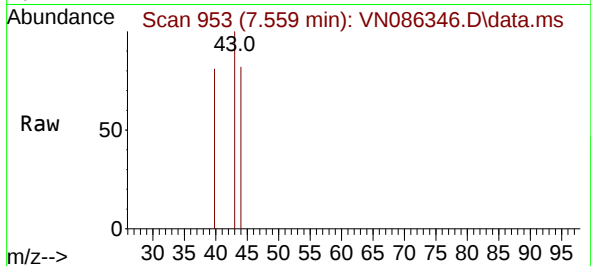




#37
Ethyl Acetate
Concen: 0.218 ug/l
RT: 7.559 min Scan# 911
Delta R.T. 0.006 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

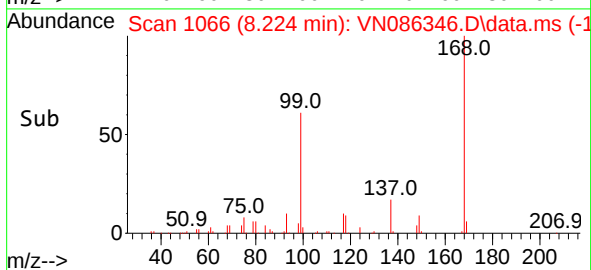
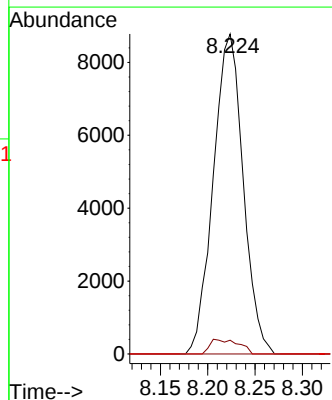
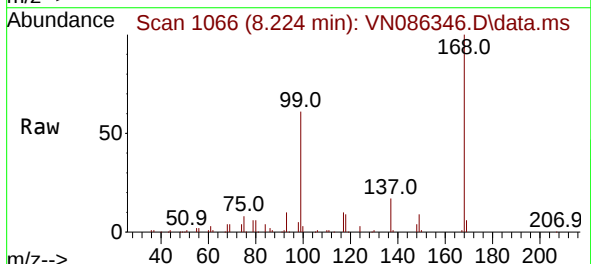
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

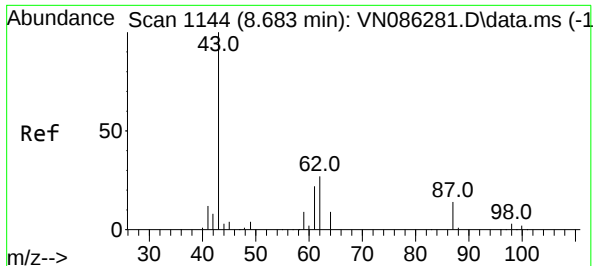
Tgt Ion: 43 Resp: 776
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 9.2 13.8#



#38
Carbon Tetrachloride
Concen: 5.982 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.136 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 117 Resp: 19275
Ion Ratio Lower Upper
117 100
119 4.3 76.8 115.2#
121 0.0 23.8 35.8#

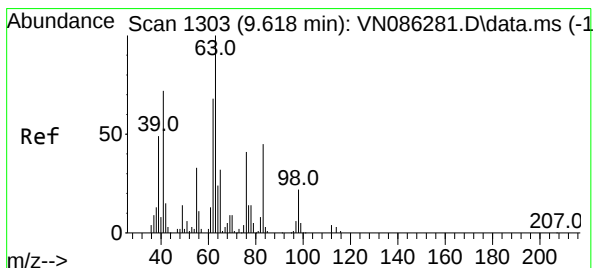
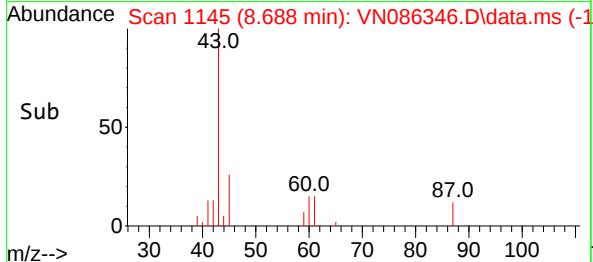
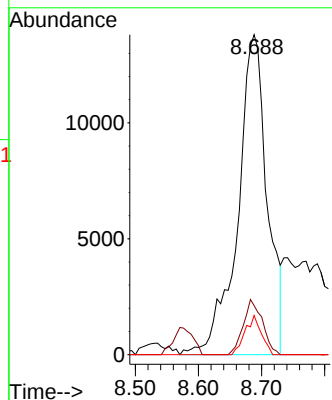
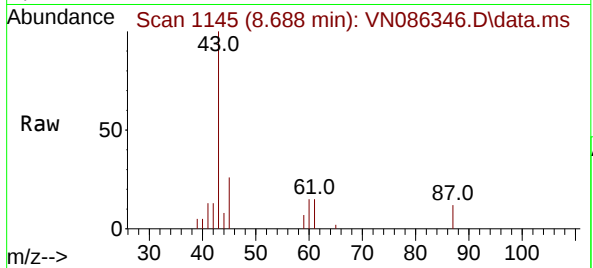




#43
Isopropyl Acetate
Concen: 5.235 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

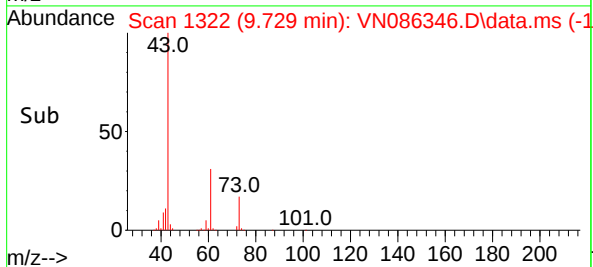
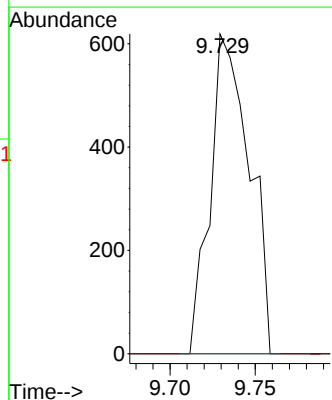
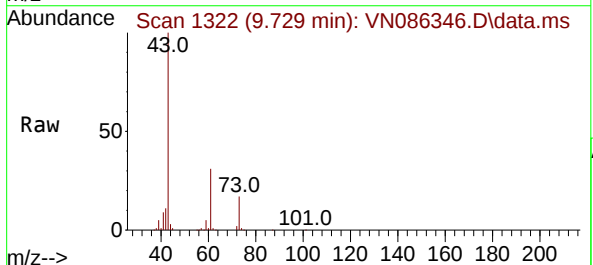
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

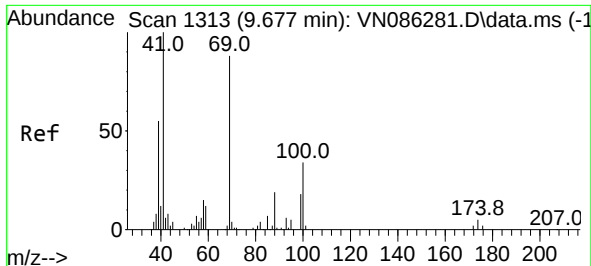
Tgt Ion: 43 Resp: 44790
Ion Ratio Lower Upper
43 100
61 11.2 20.5 30.7#
87 6.8 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.373 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 63 Resp: 989
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

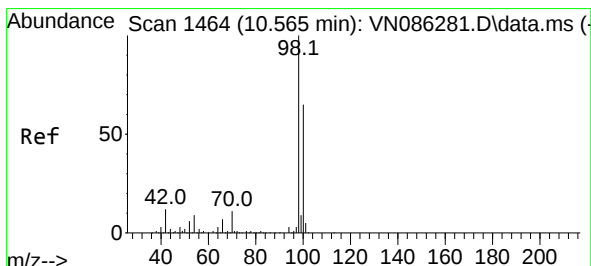
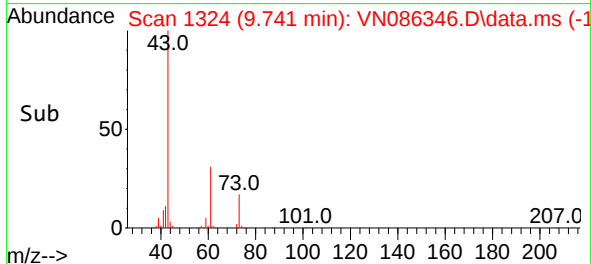
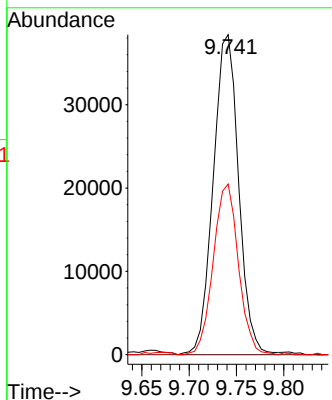
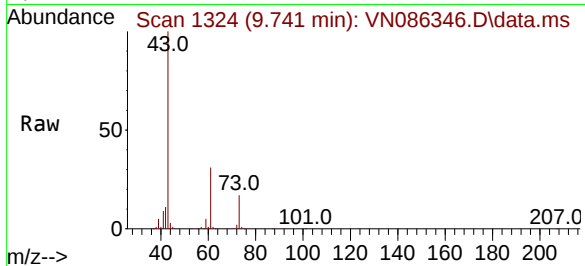




#48
Methyl methacrylate
Concen: 22.893 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.064 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

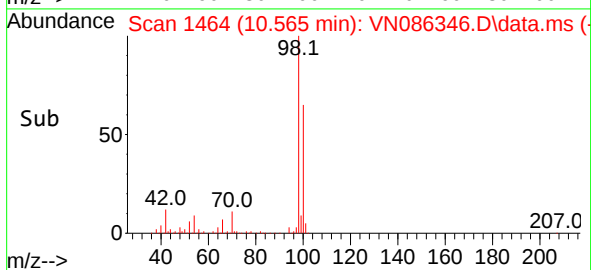
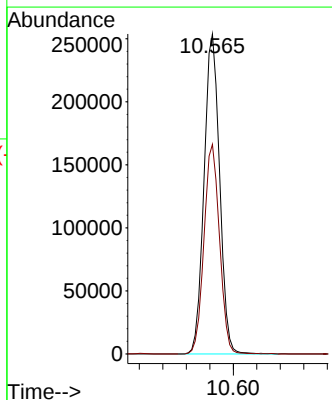
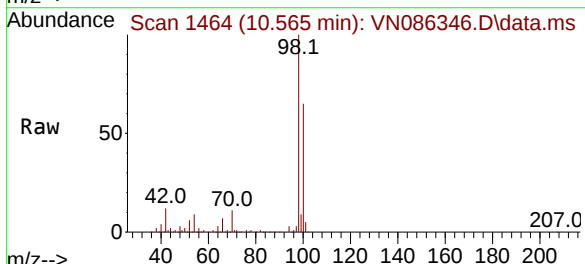
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

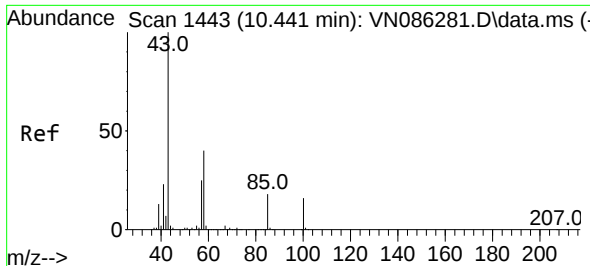
Tgt Ion: 41 Resp: 71616
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 52.9 45.2 67.8



#50
Toluene-d8
Concen: 51.329 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 98 Resp: 464729
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7

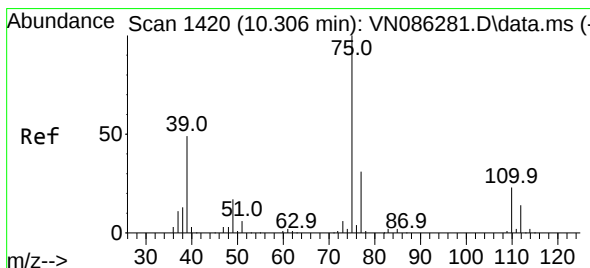
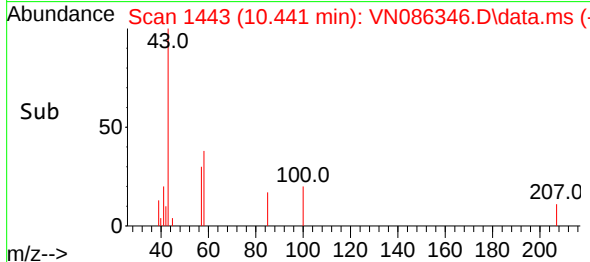
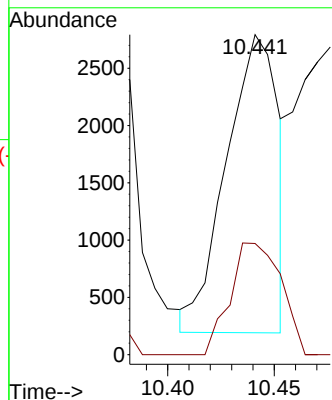
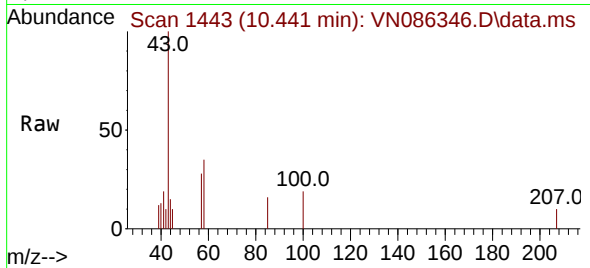




#51
4-Methyl-2-Pentanone
Concen: 1.213 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

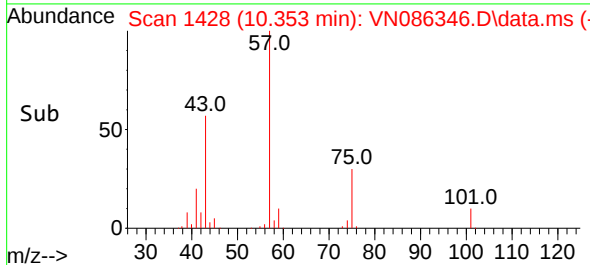
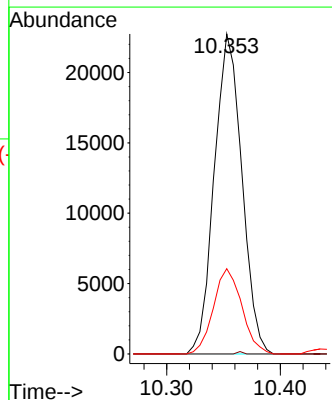
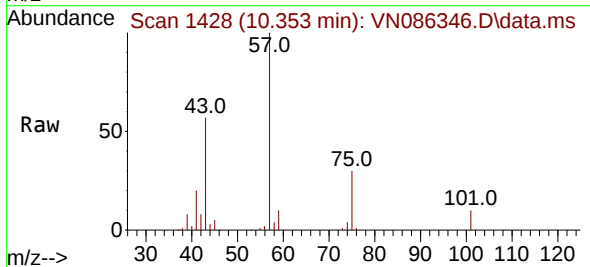
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

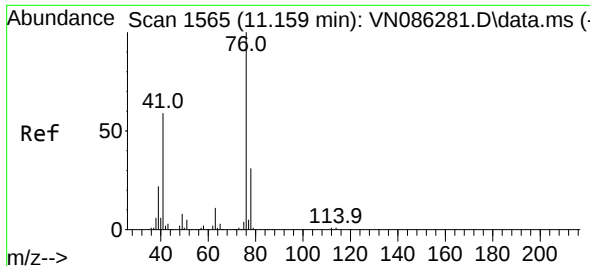
Tgt Ion: 43 Resp: 4423
Ion Ratio Lower Upper
43 100
58 36.7 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.558 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 75 Resp: 38316
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 26.6 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.825 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086346.D

Acq: 18 Apr 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

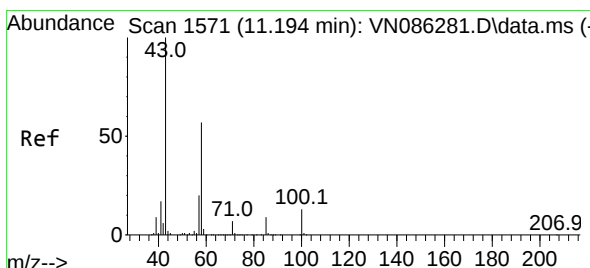
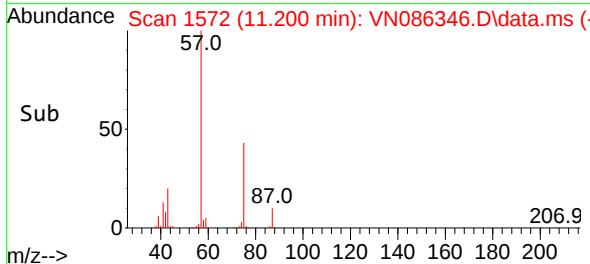
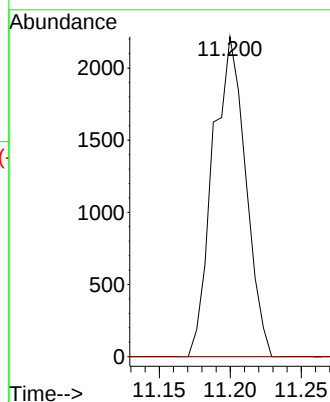
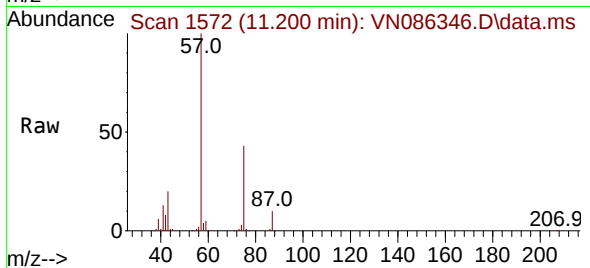
PB167623ZHE#11

Tgt Ion: 76 Resp: 3563

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 25.677 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086346.D

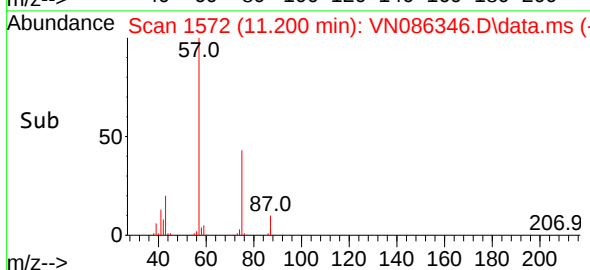
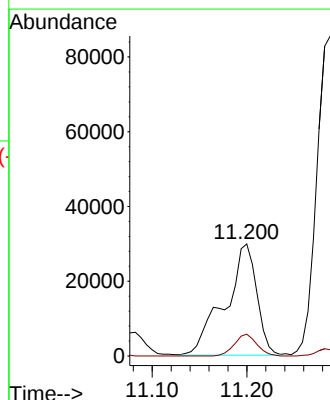
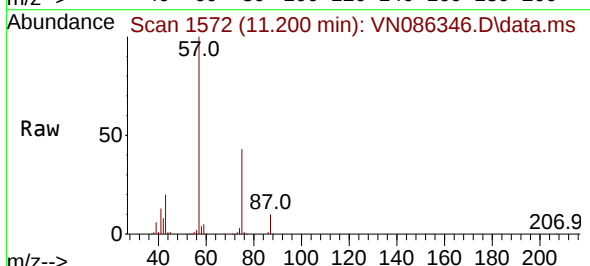
Acq: 18 Apr 2025 16:07

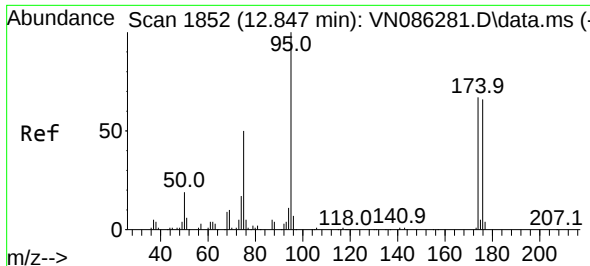
Tgt Ion: 43 Resp: 69473

Ion Ratio Lower Upper

43 100

58 13.7 28.3 85.0#

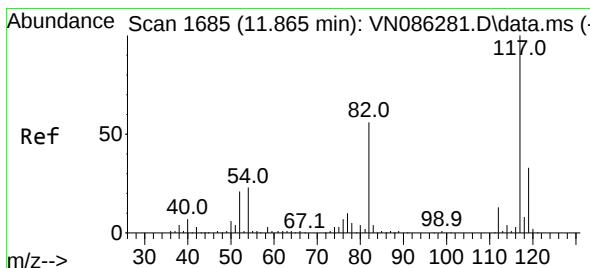
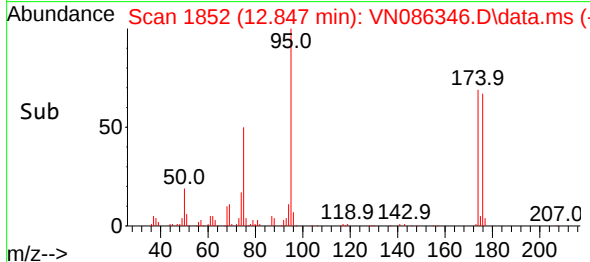
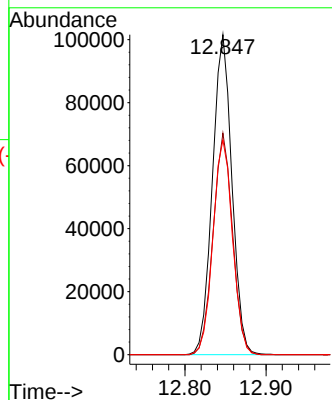
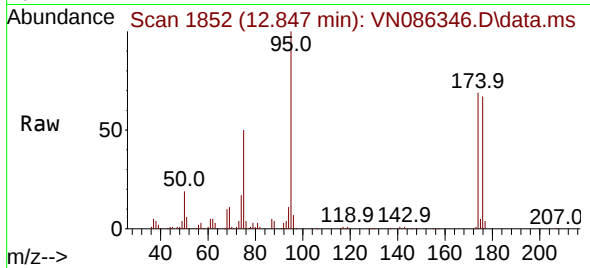




#62
4-Bromofluorobenzene
Concen: 51.248 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

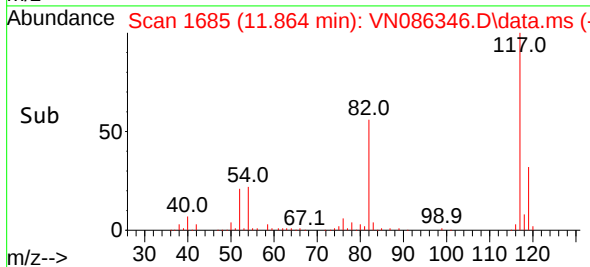
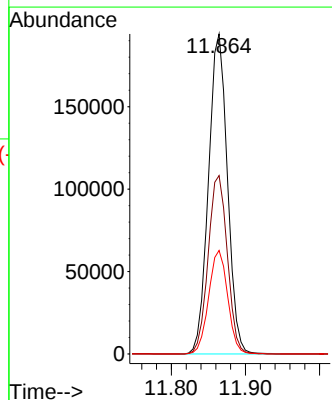
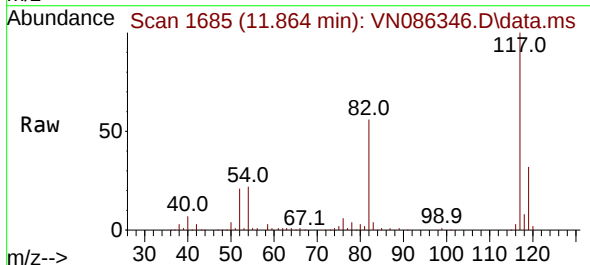
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

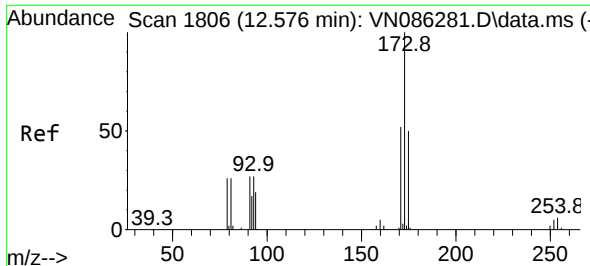
Tgt Ion: 95 Resp: 169237
Ion Ratio Lower Upper
95 100
174 68.9 0.0 133.4
176 67.7 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 117 Resp: 344723
Ion Ratio Lower Upper
117 100
82 55.8 44.7 67.1
119 32.3 26.4 39.6

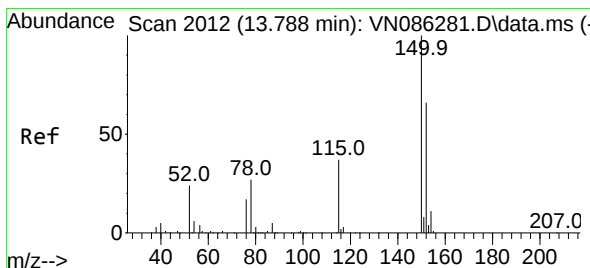
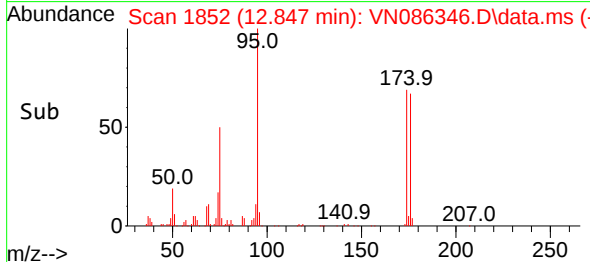
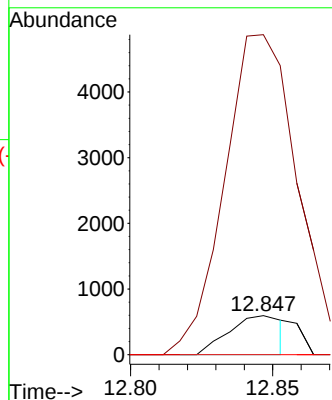
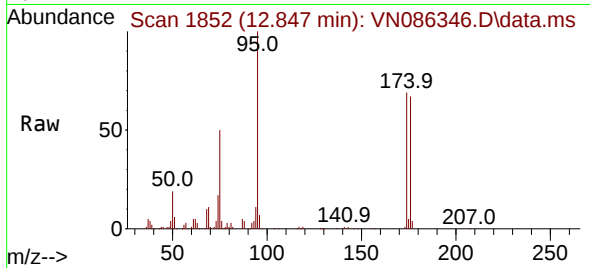




#71
Bromoform
Concen: 0.411 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

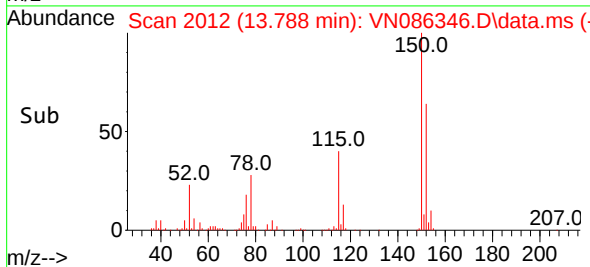
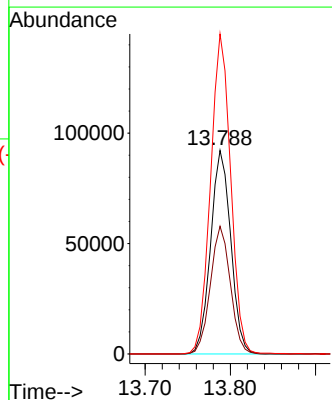
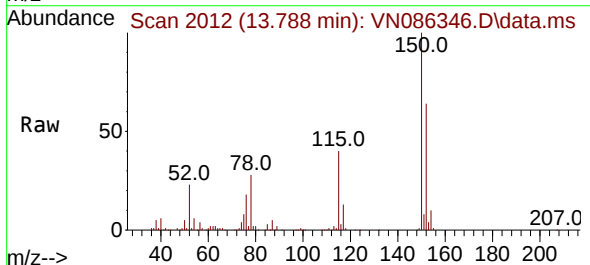
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

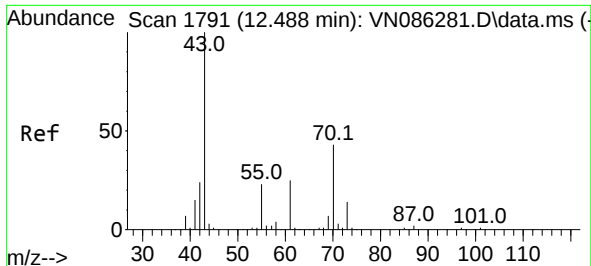
Tgt Ion:173 Resp: 786
Ion Ratio Lower Upper
173 100
175 885.4 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion:152 Resp: 151460
Ion Ratio Lower Upper
152 100
115 62.1 31.9 95.9
150 157.0 0.0 352.0

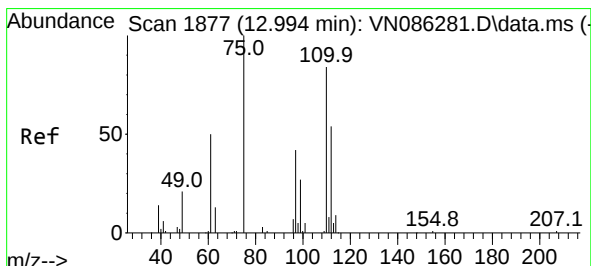
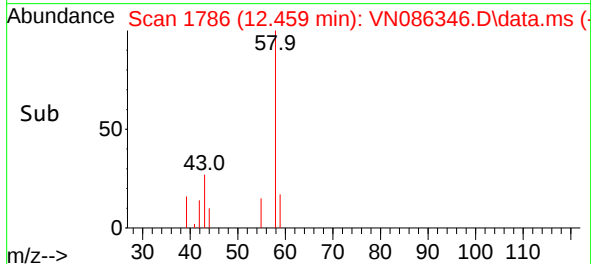
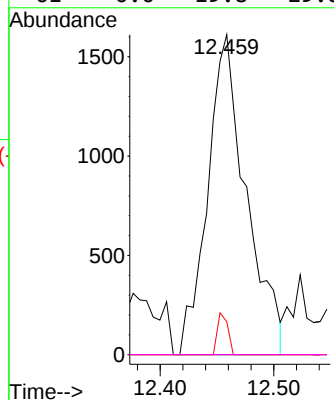
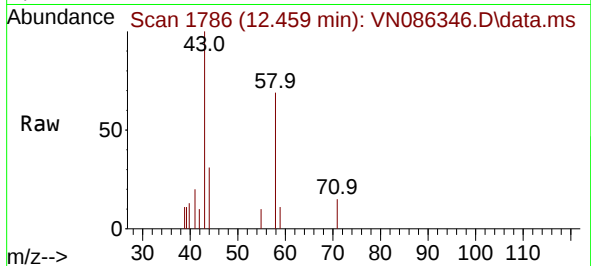




#74
N-amy1 acetate
Concen: 0.617 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

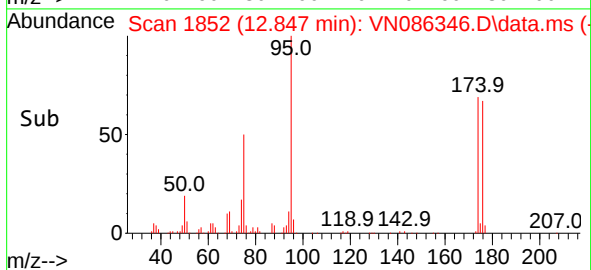
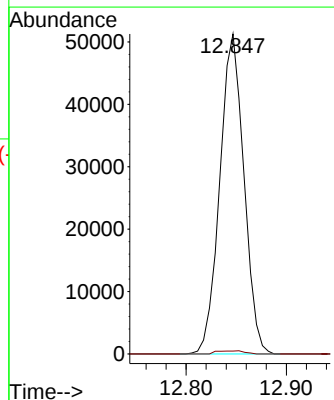
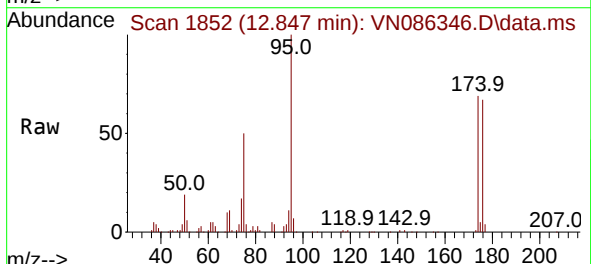
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

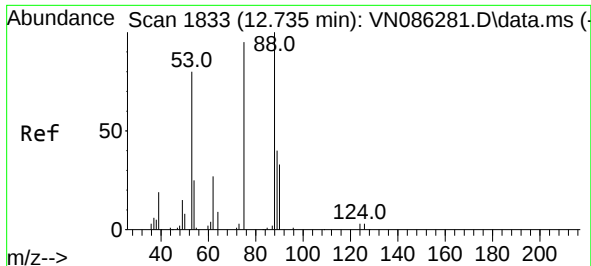
Tgt Ion: 43	Resp:	3806	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	3.5	19.0	28.4#
61	0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 23.956 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 75	Resp:	85625	
Ion Ratio	Lower	Upper	
75 100			
77 1.1	98.8	296.4#	

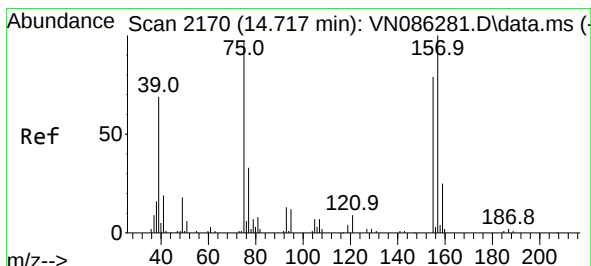
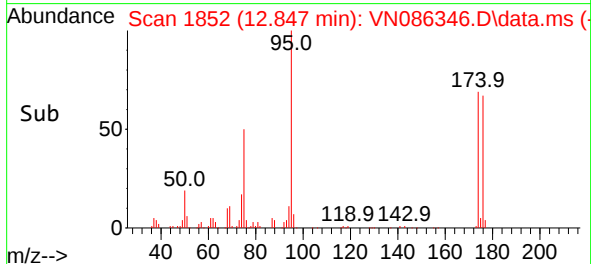
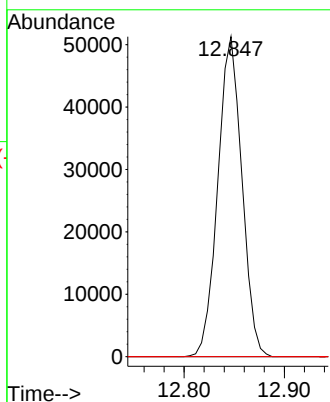
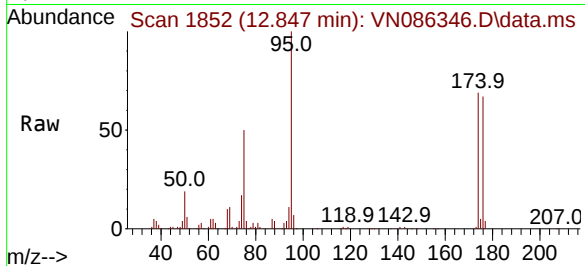




#81
trans-1,4-Dichloro-2-butene
Concen: 57.534 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#11

Tgt Ion: 75 Resp: 85625
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.575 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.024 min
Lab File: VN086346.D
Acq: 18 Apr 2025 16:07

Tgt Ion: 75 Resp: 413
Ion Ratio Lower Upper
75 100
155 0.0 40.3 120.9#
157 0.0 49.0 147.2#

