

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086651.D
 Acq On : 15 May 2025 17:36
 Operator : JC\MD
 Sample : PB167995ZHE#13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

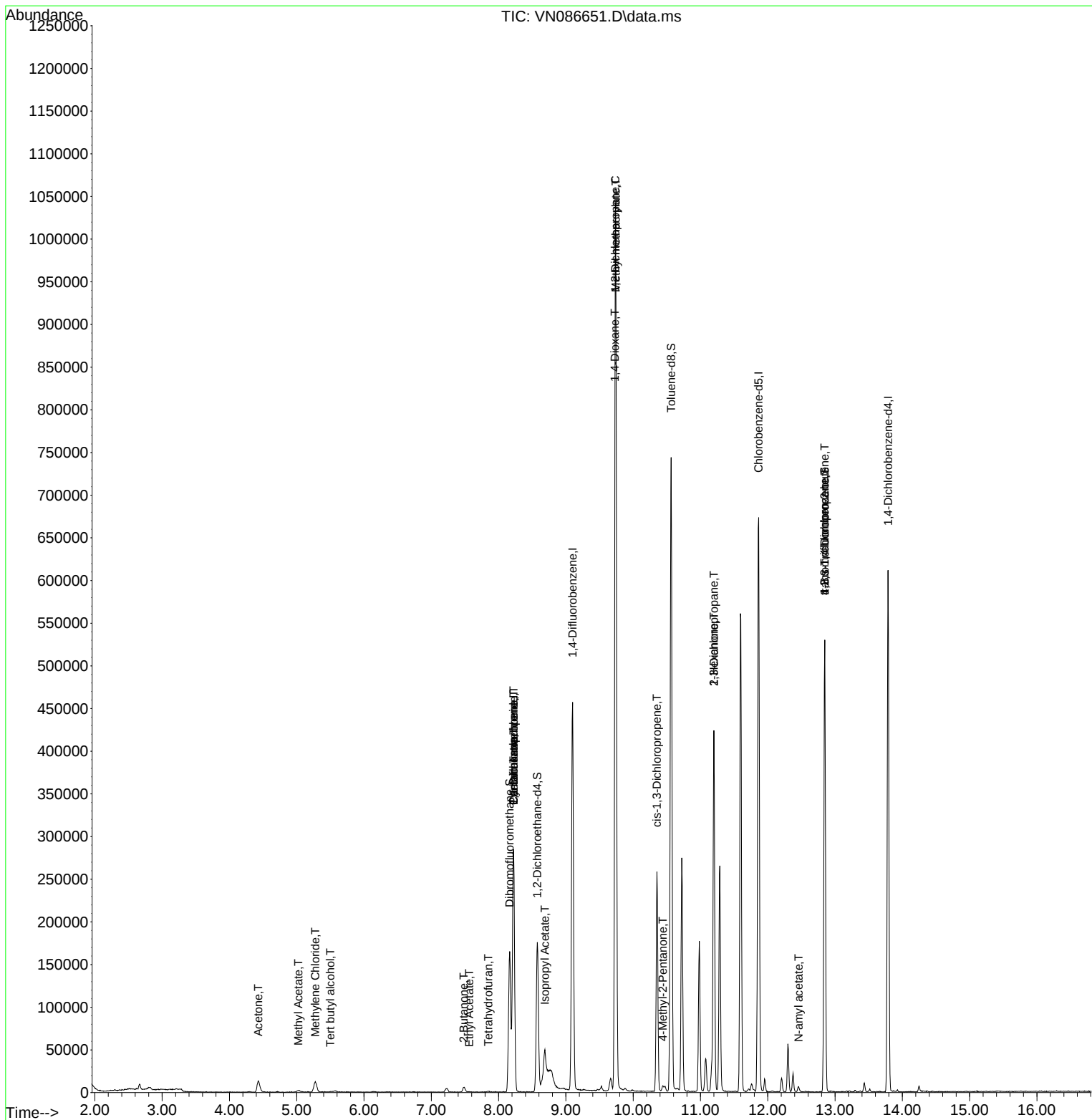
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#13

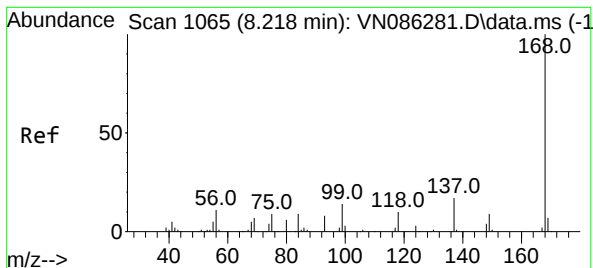
Quant Time: May 16 05:31:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	218644	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	412155	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	405482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	169648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	149064	47.015	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.040%
35) Dibromofluoromethane	8.165	113	121254	63.389	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	126.780%#
50) Toluene-d8	10.565	98	524595	51.314	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.620%
62) 4-Bromofluorobenzene	12.847	95	194555	52.175	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.360%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.500	59	391	0.676	ug/l #	72
16) Acetone	4.430	43	25606	18.065	ug/l	99
18) Methyl Acetate	5.024	43	4711	1.238	ug/l	93
20) Methylene Chloride	5.277	84	10496	3.581	ug/l	90
25) 2-Butanone	7.482	43	10636	5.389	ug/l	99
29) Tetrahydrofuran	7.847	42	844	0.640	ug/l #	46
31) Cyclohexane	8.224	56	4413	0.859	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17443	4.565	ug/l #	49
37) Ethyl Acetate	7.565	43	1007	0.250	ug/l #	68
38) Carbon Tetrachloride	8.224	117	21842	6.003	ug/l #	16
43) Isopropyl Acetate	8.688	43	78204	9.140	ug/l #	72
45) 1,2-Dichloropropane	9.735	63	1393	0.465	ug/l #	43
48) Methyl methacrylate	9.741	41	93353	26.428	ug/l #	41
49) 1,4-Dioxane	9.729	88	64	1.065	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	4407	1.070	ug/l	95
54) cis-1,3-Dichloropropene	10.353	75	49305	9.753	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	4440	0.911	ug/l #	43
59) 2-Hexanone	11.200	43	83390	27.295	ug/l #	46
74) N-amyl acetate	12.459	43	4467	0.647	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	96258	24.044	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	96258	57.744	ug/l #	10

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

Quant Time: May 16 05:31:18 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

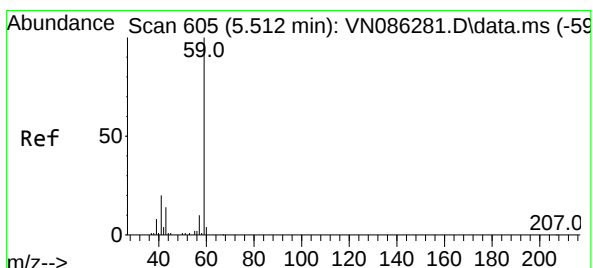
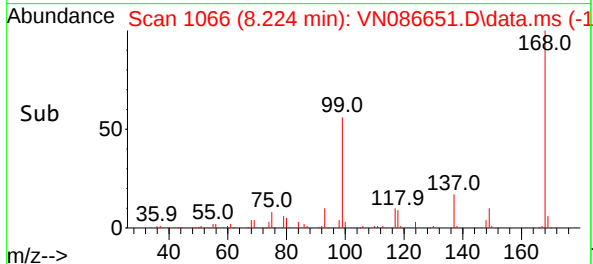
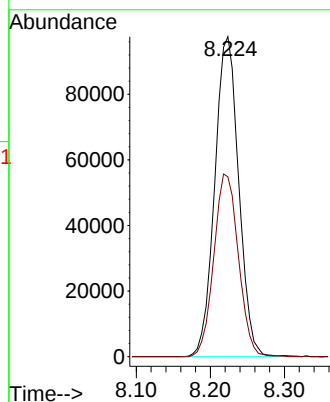
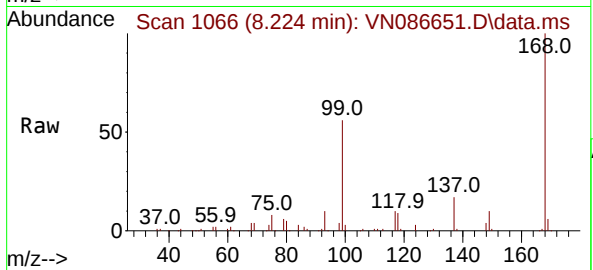




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

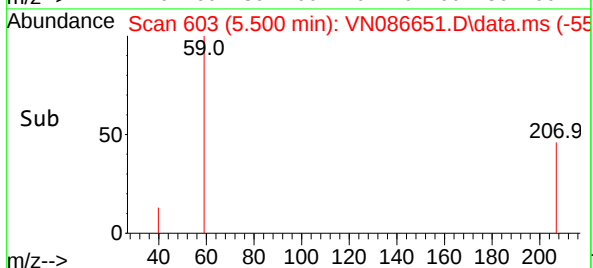
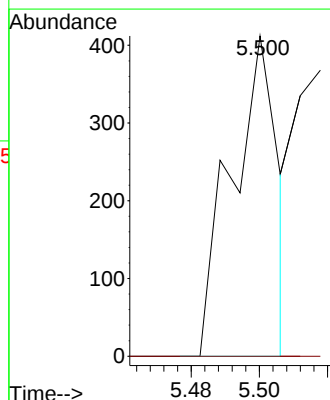
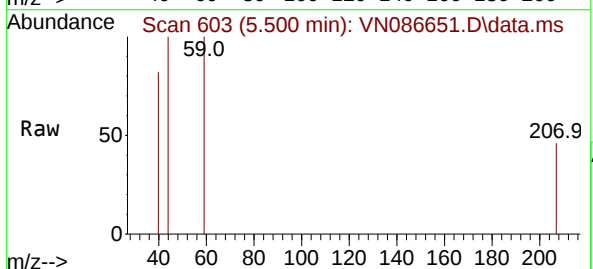
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

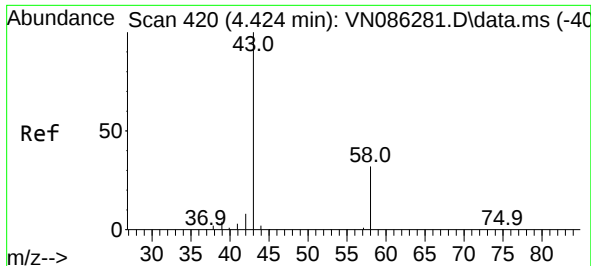
Tgt Ion:168 Resp: 218644
Ion Ratio Lower Upper
168 100
99 56.2 52.5 78.7



#11
Tert butyl alcohol
Concen: 0.676 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Tgt Ion: 59 Resp: 391
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

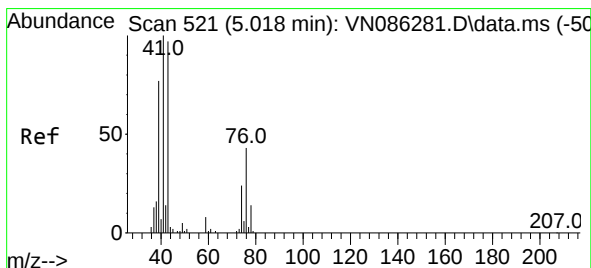
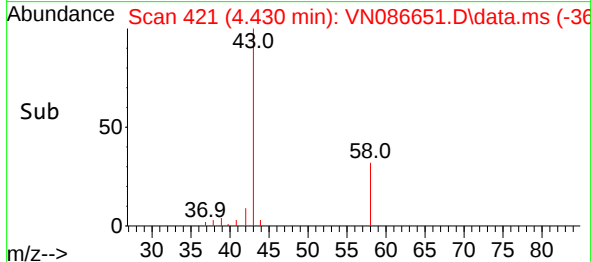
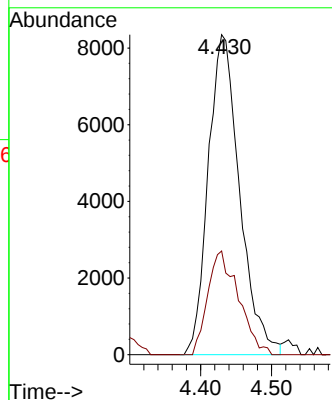
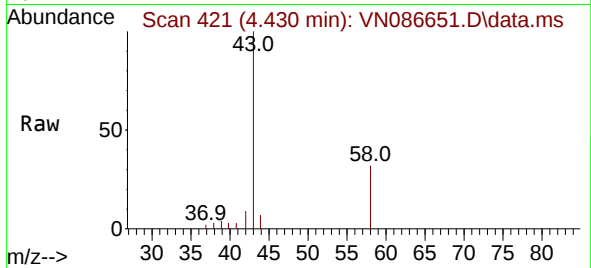




#16
Acetone
Concen: 18.065 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

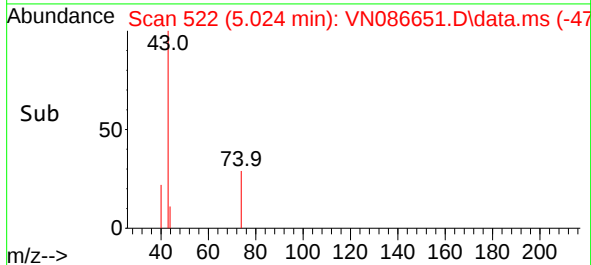
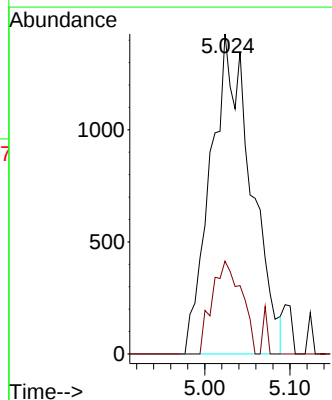
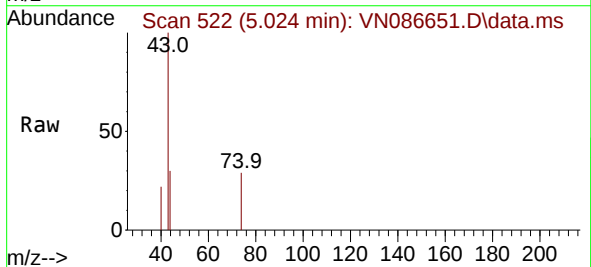
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

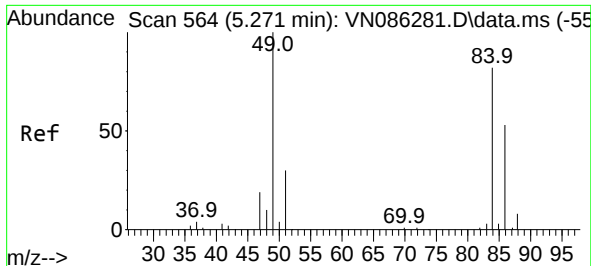
Tgt Ion: 43 Resp: 25606
Ion Ratio Lower Upper
43 100
58 32.4 25.3 37.9



#18
Methyl Acetate
Concen: 1.238 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

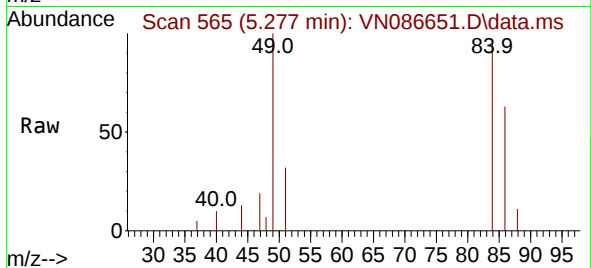
Tgt Ion: 43 Resp: 4711
Ion Ratio Lower Upper
43 100
74 21.2 19.8 29.6



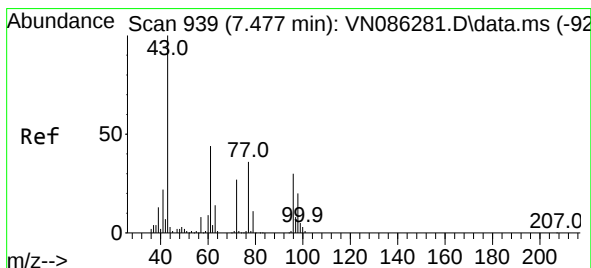
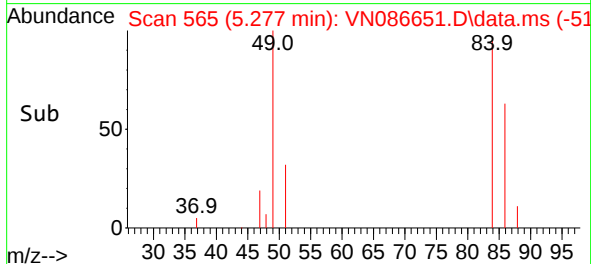
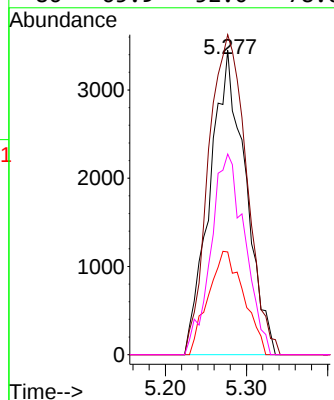


#20
Methylene Chloride
Concen: 3.581 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

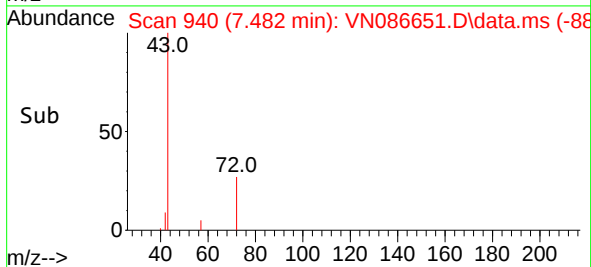
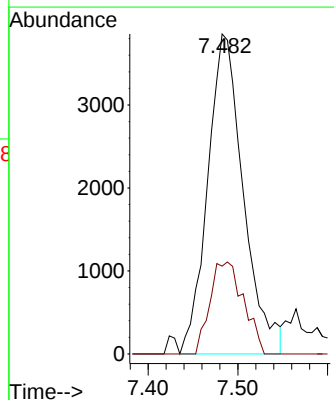
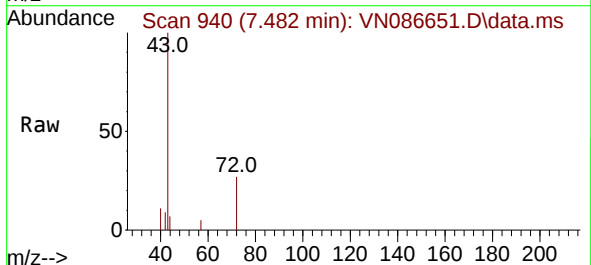


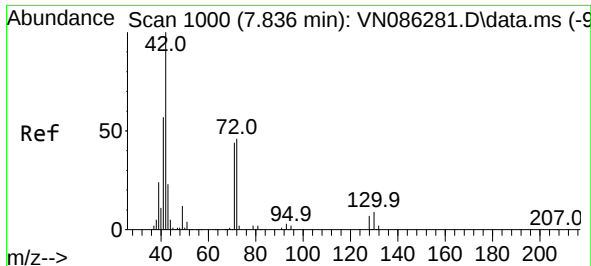
Tgt Ion:	84	Resp:	10496
Ion	Ratio	Lower	Upper
84	100		
49	105.1	98.2	147.2
51	33.7	29.8	44.6
86	65.9	52.0	78.0



#25
2-Butanone
Concen: 5.389 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Tgt Ion:	43	Resp:	10636
Ion	Ratio	Lower	Upper
43	100		
72	27.4	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.640 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

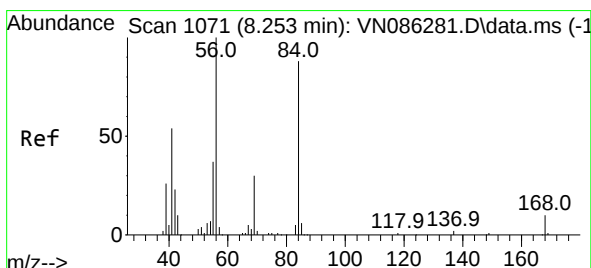
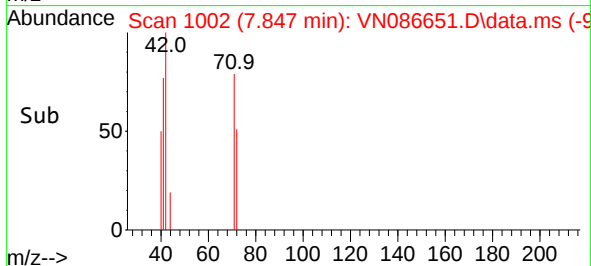
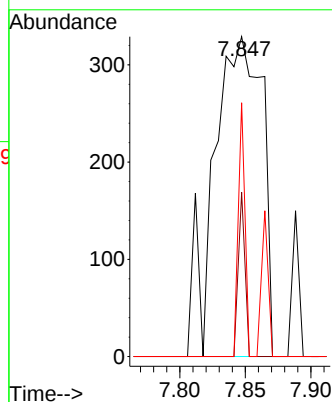
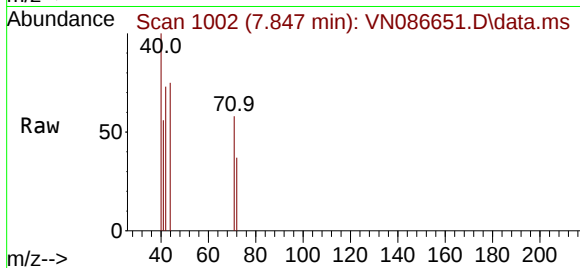
Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#13

Tgt Ion:	42	Resp:	844
Ion	Ratio	Lower	Upper
42	100		
72	7.1	36.2	54.4#
71	10.9	34.0	51.0#



#31

Cyclohexane

Concen: 0.859 ug/l

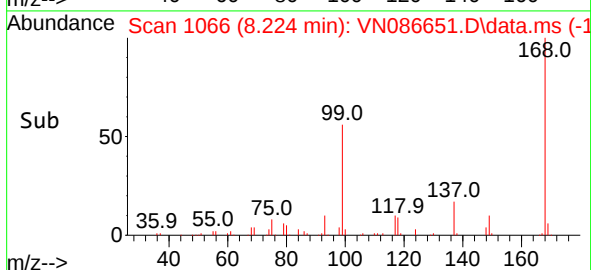
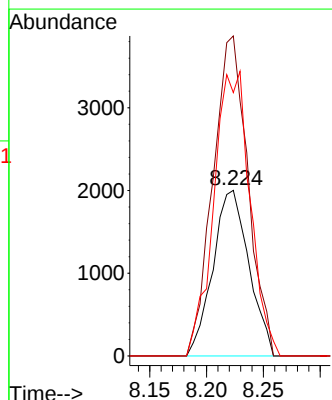
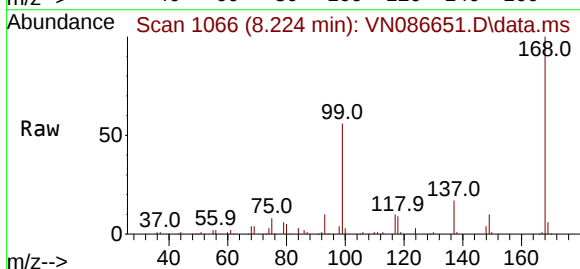
RT: 8.224 min Scan# 1066

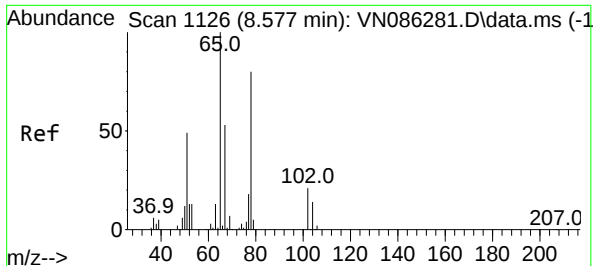
Delta R.T. -0.030 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

Tgt Ion:	56	Resp:	4413
Ion	Ratio	Lower	Upper
56	100		
69	193.2	24.2	36.2#
84	159.0	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 47.015 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

Instrument :

MSVOA_N

ClientSampleId :

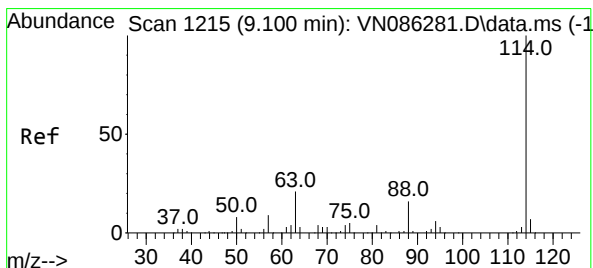
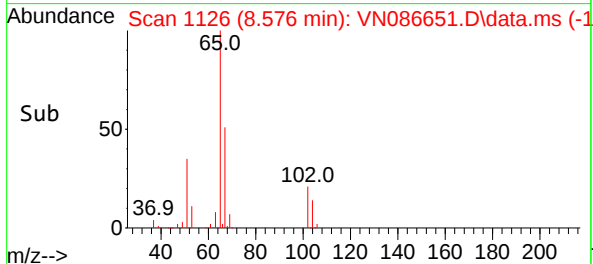
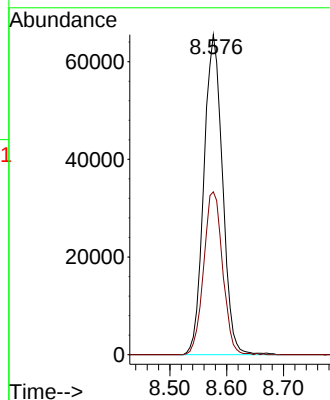
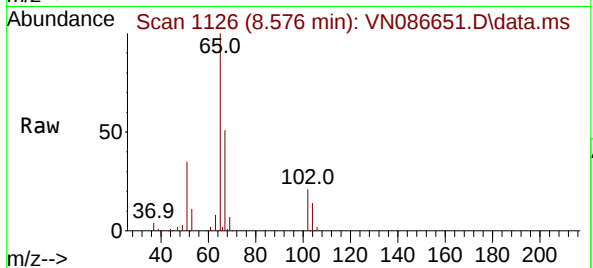
PB167995ZHE#13

Tgt Ion: 65 Resp: 149064

Ion Ratio Lower Upper

65 100

67 51.6 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: VN086651.D

Acq: 15 May 2025 17:36

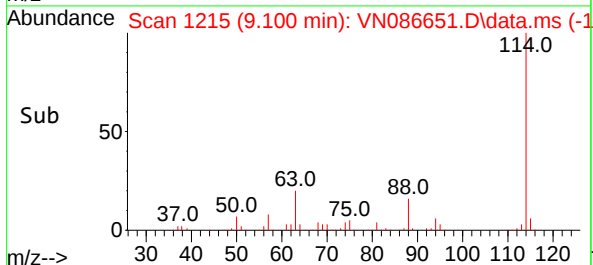
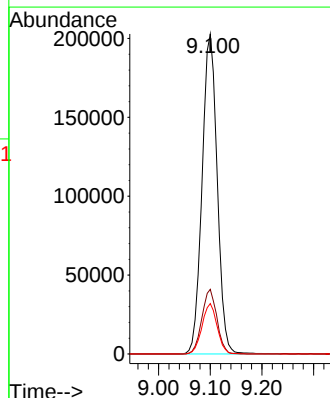
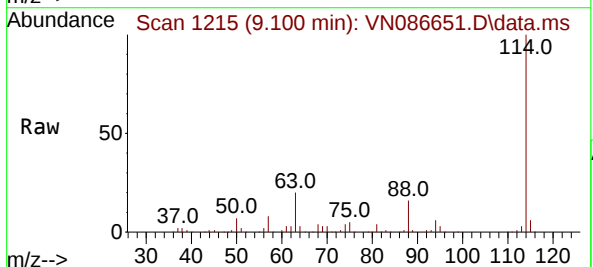
Tgt Ion: 114 Resp: 412155

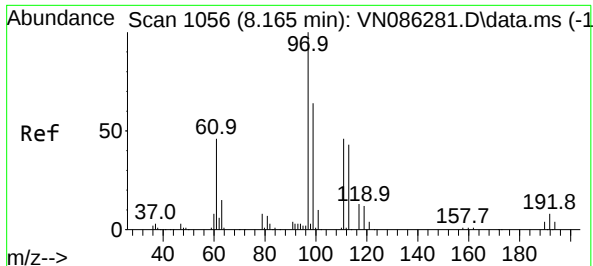
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.389 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#13

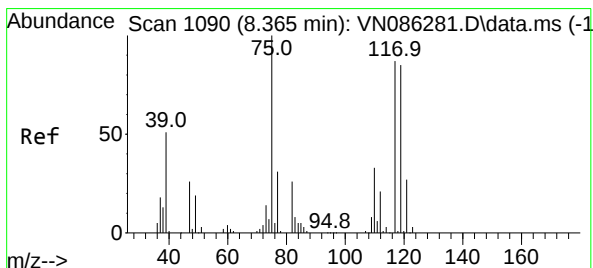
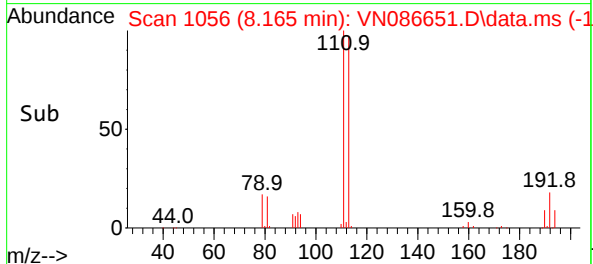
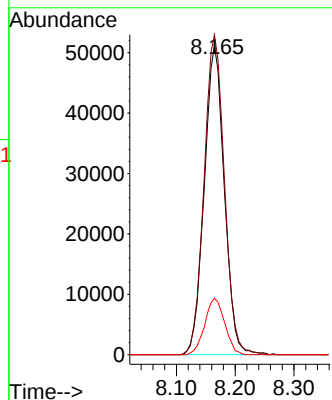
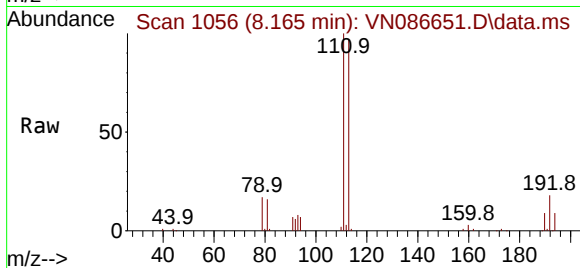
Tgt Ion:113 Resp: 121254

Ion Ratio Lower Upper

113 100

111 105.1 83.4 125.0

192 18.1 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.565 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

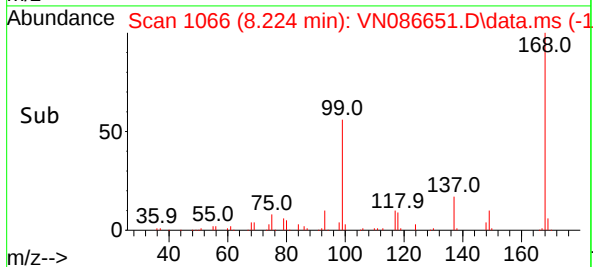
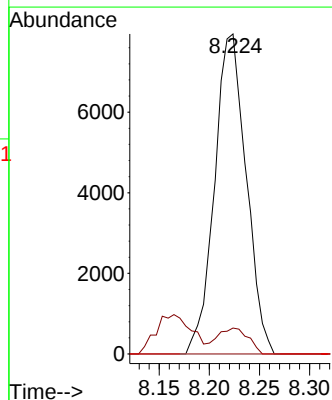
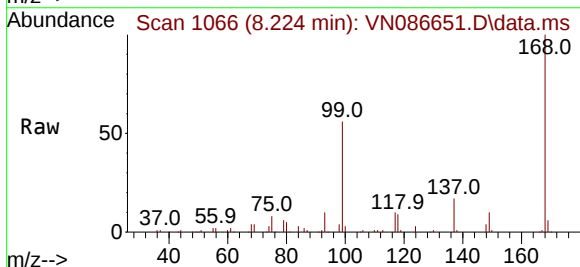
Tgt Ion: 75 Resp: 17443

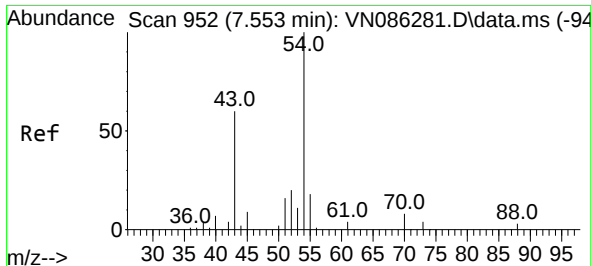
Ion Ratio Lower Upper

75 100

110 7.6 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.250 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

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PB167995ZHE#13

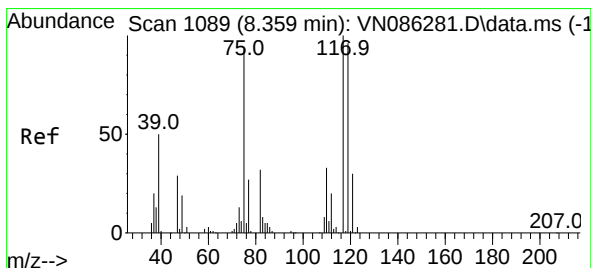
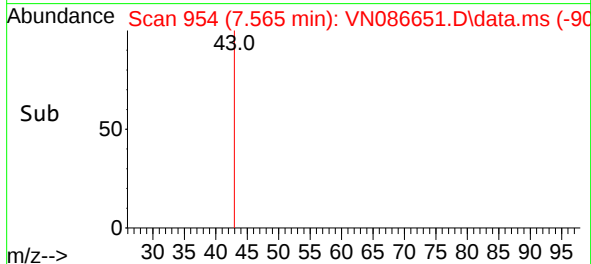
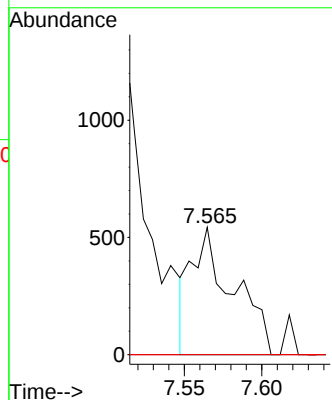
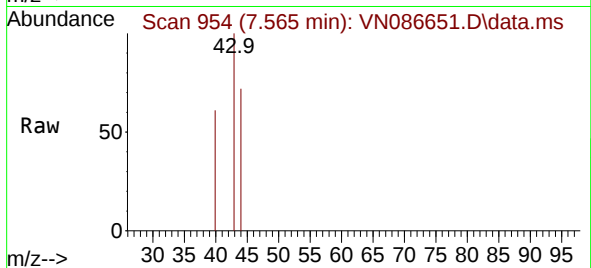
Tgt Ion: 43 Resp: 1007

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.003 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

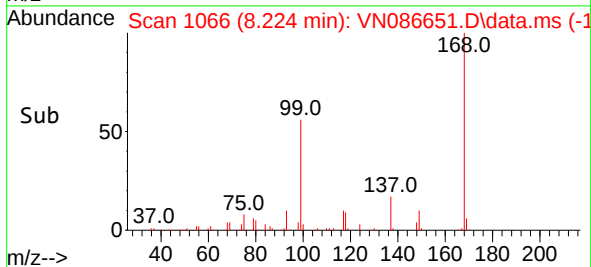
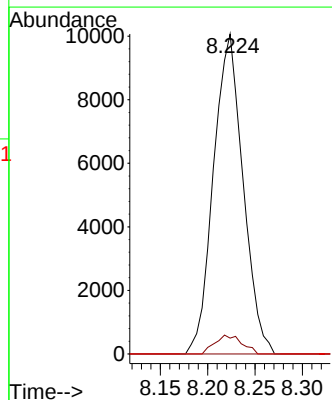
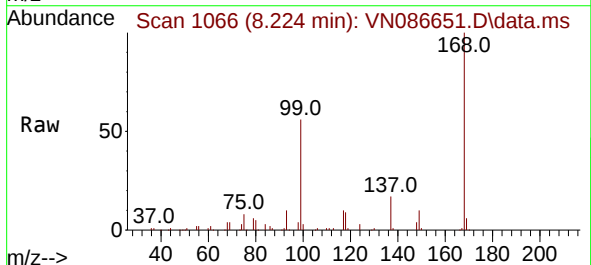
Tgt Ion: 117 Resp: 21842

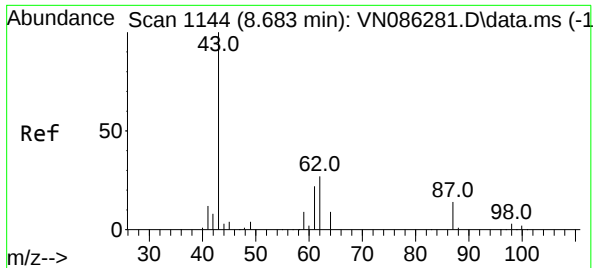
Ion Ratio Lower Upper

117 100

119 5.0 76.8 115.2#

121 0.0 23.8 35.8#

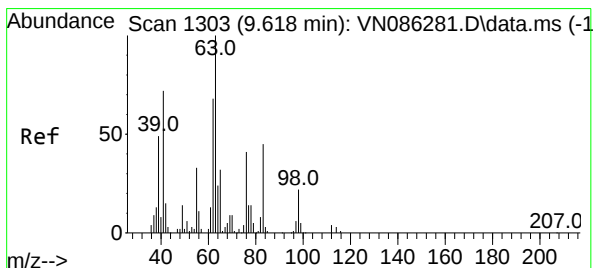
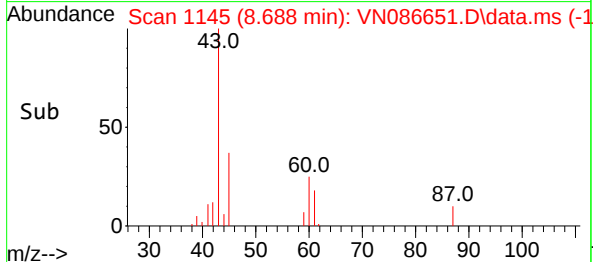
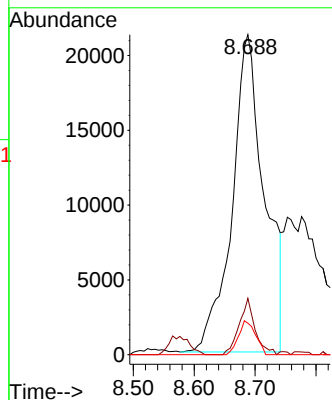
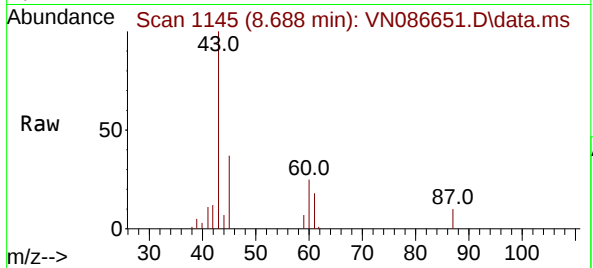




#43
Isopropyl Acetate
Concen: 9.140 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

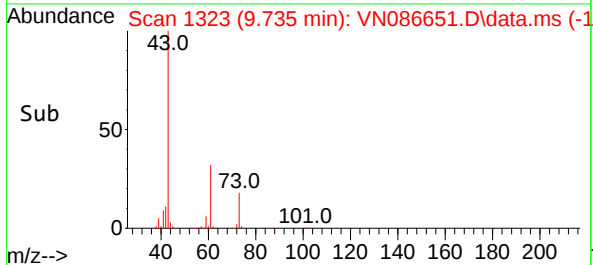
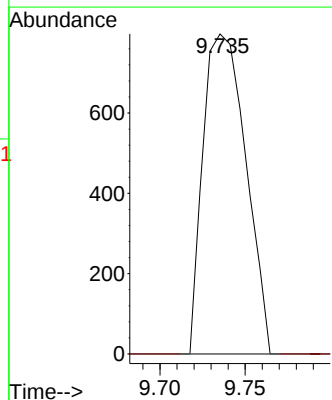
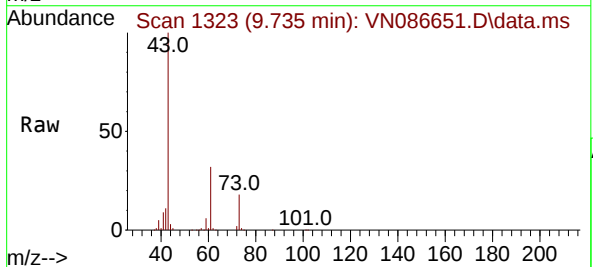
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

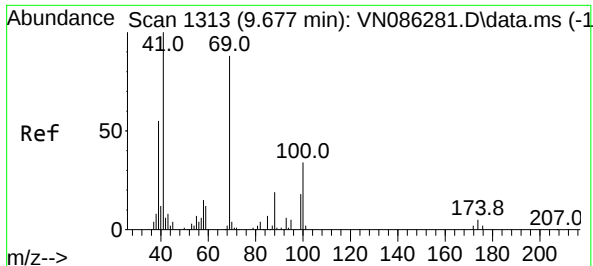
Tgt Ion: 43 Resp: 78204
Ion Ratio Lower Upper
43 100
61 8.7 20.5 30.7#
87 5.6 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.465 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Tgt Ion: 63 Resp: 1393
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#





#48

Methyl methacrylate

Concen: 26.428 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#13

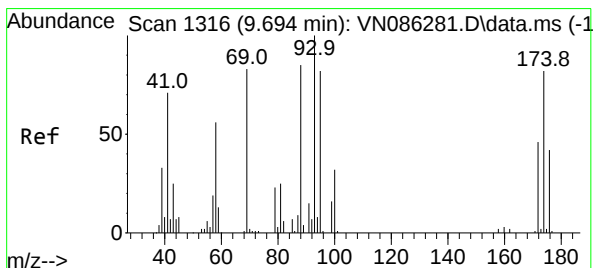
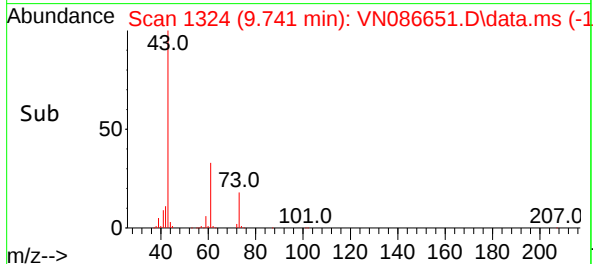
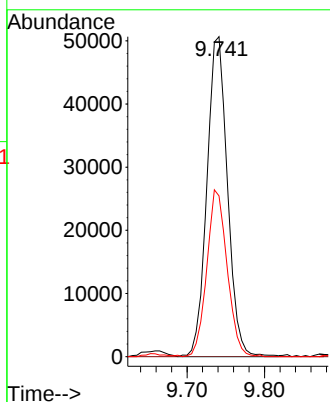
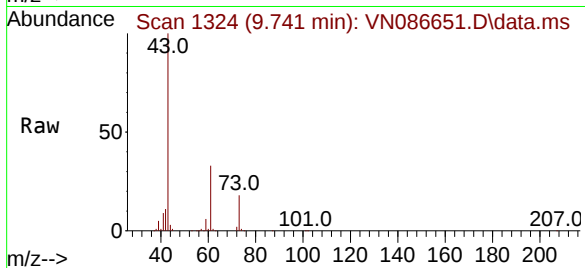
Tgt Ion: 41 Resp: 93353

Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 51.6 45.2 67.8



#49

1,4-Dioxane

Concen: 1.065 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.035 min

Lab File: VN086651.D

Acq: 15 May 2025 17:36

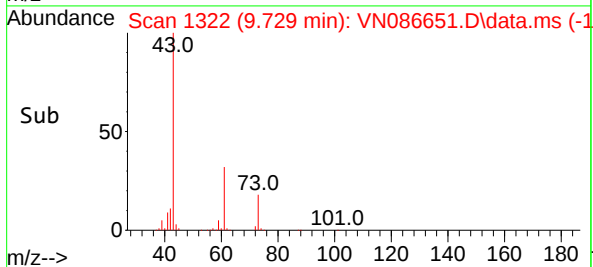
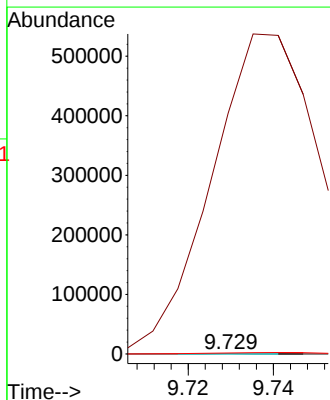
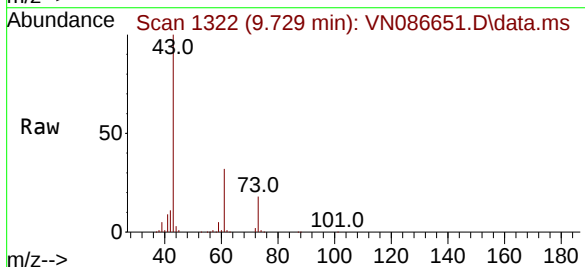
Tgt Ion: 88 Resp: 64

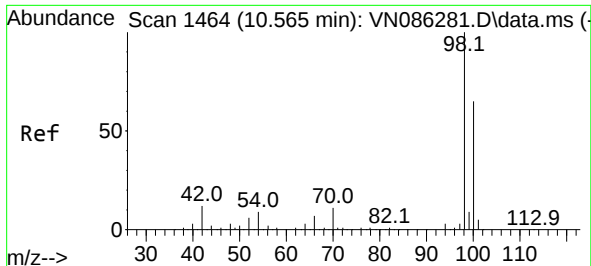
Ion Ratio Lower Upper

88 100

43 1563915.6 23.8 35.8#

58 6776.6 57.4 86.2#

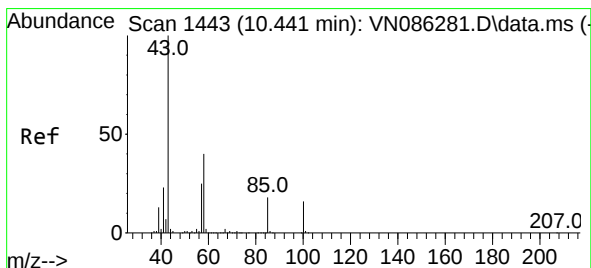
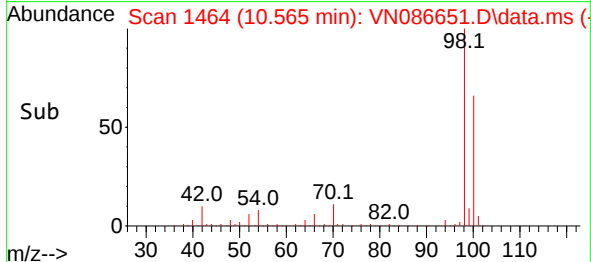
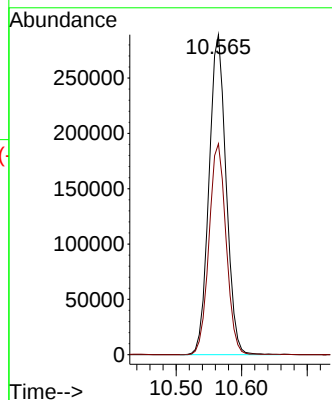
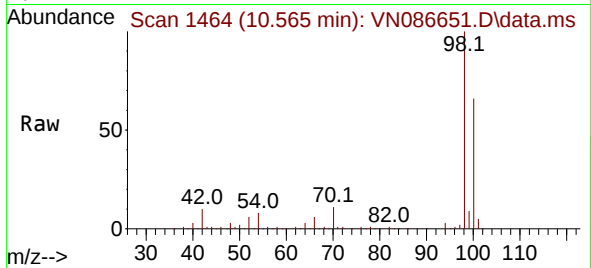




#50
Toluene-d8
Concen: 51.314 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

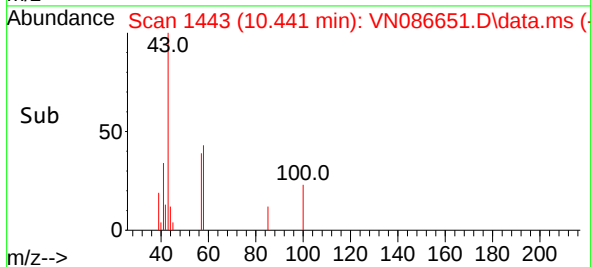
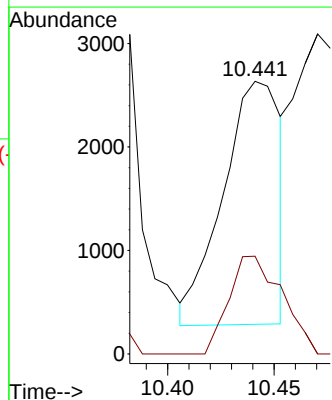
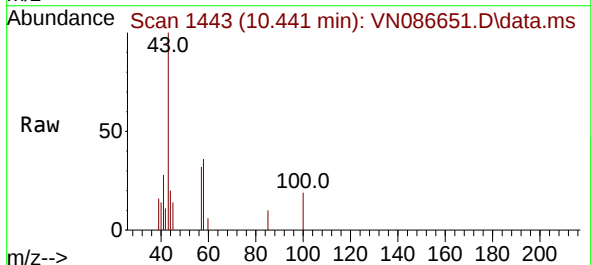
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

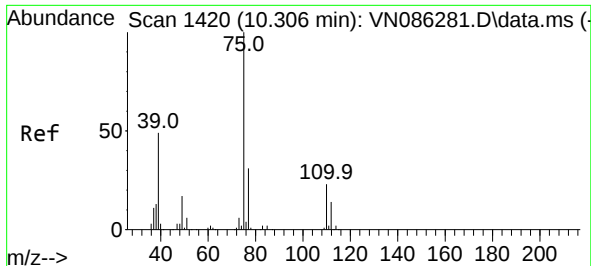
Tgt Ion: 98 Resp: 524595
Ion Ratio Lower Upper
98 100
100 66.0 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.070 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Tgt Ion: 43 Resp: 4407
Ion Ratio Lower Upper
43 100
58 37.3 32.2 48.4

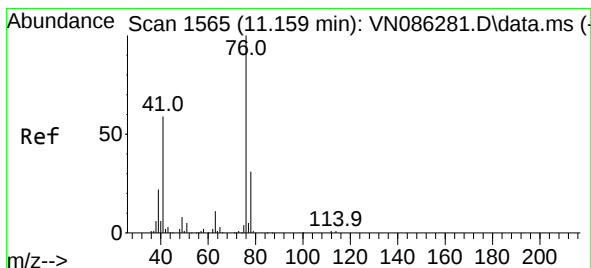
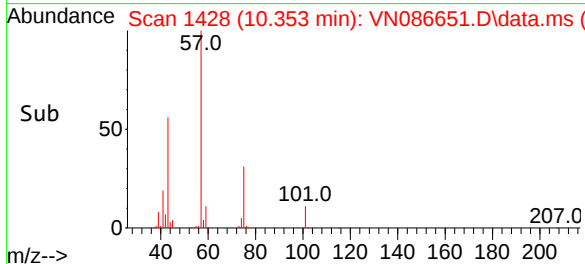
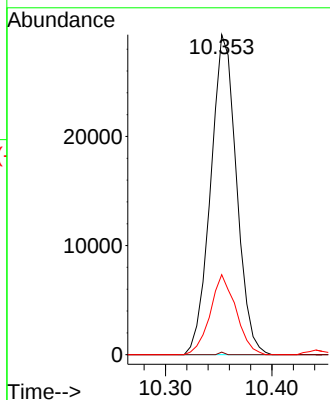
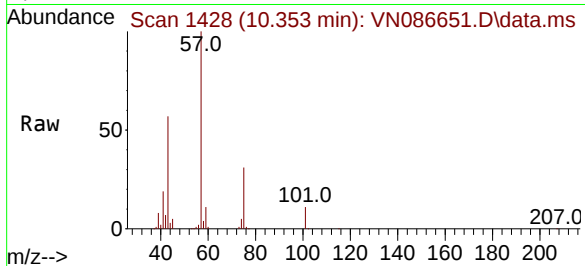




#54
 cis-1,3-Dichloropropene
 Concen: 9.753 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086651.D
 Acq: 15 May 2025 17:36

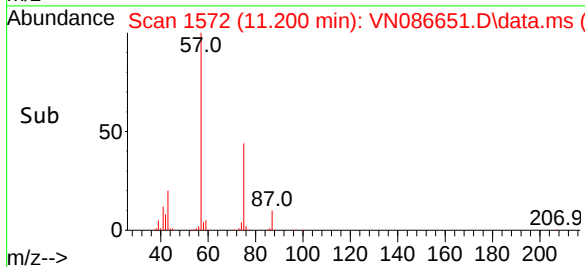
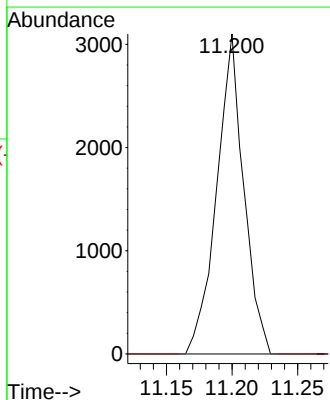
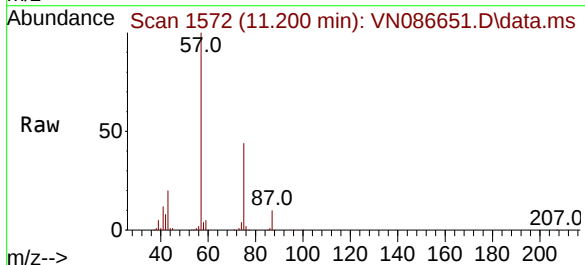
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#13

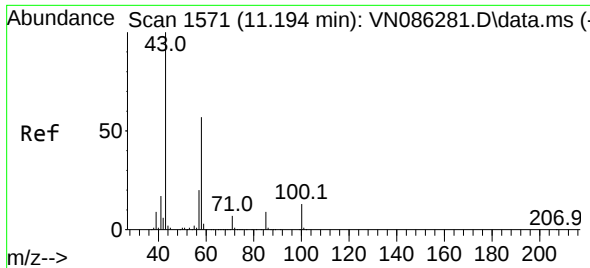
Tgt Ion: 75 Resp: 49305
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 25.0 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.911 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086651.D
 Acq: 15 May 2025 17:36

Tgt Ion: 76 Resp: 4440
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

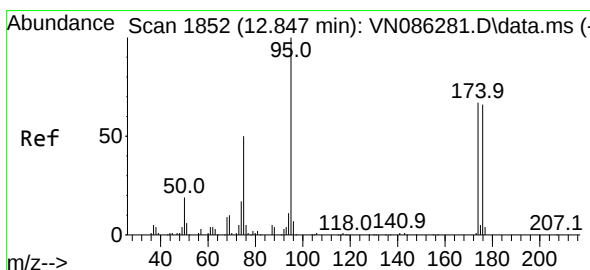
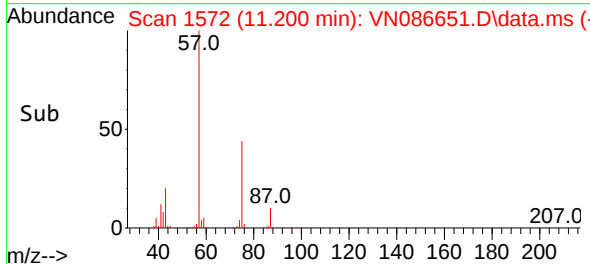
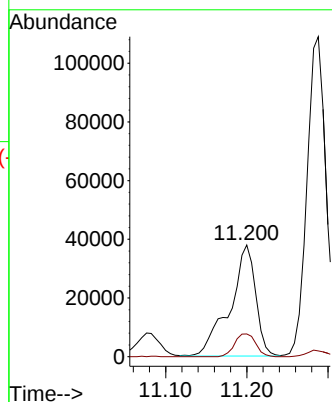
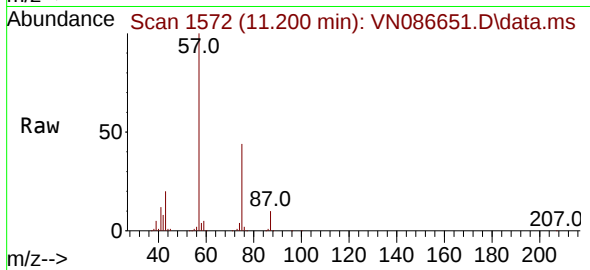




#59
2-Hexanone
Concen: 27.295 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

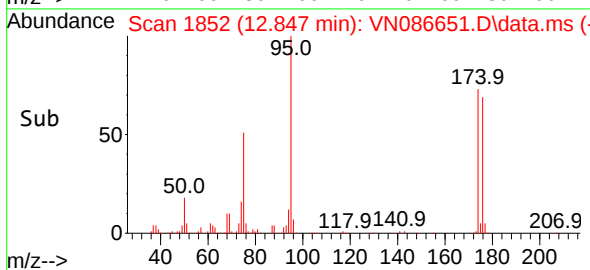
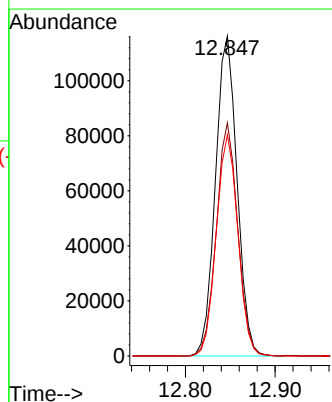
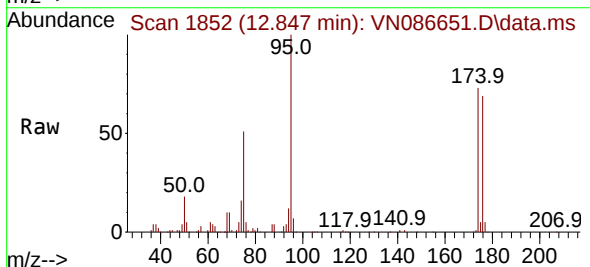
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

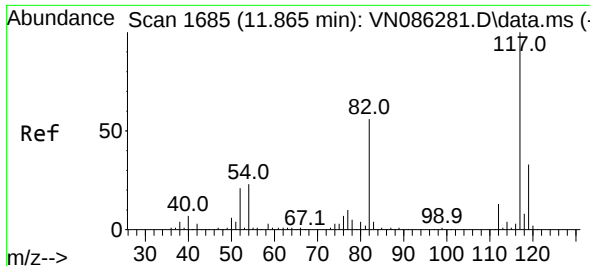
Tgt Ion: 43 Resp: 83390
Ion Ratio Lower Upper
43 100
58 16.8 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 52.175 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Tgt Ion: 95 Resp: 194555
Ion Ratio Lower Upper
95 100
174 72.3 0.0 133.4
176 69.0 0.0 129.2

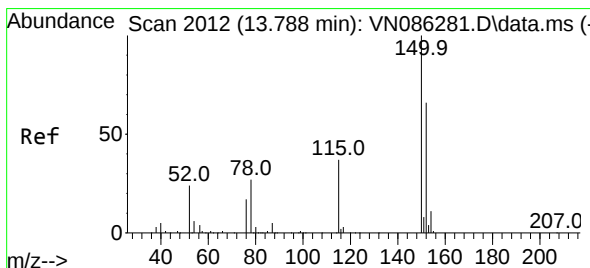
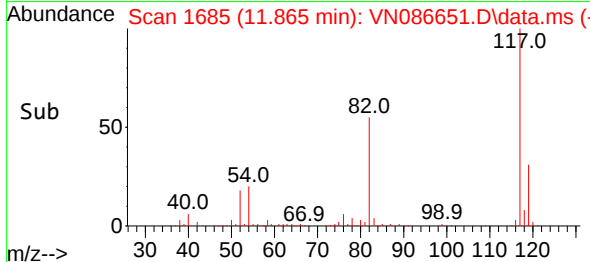
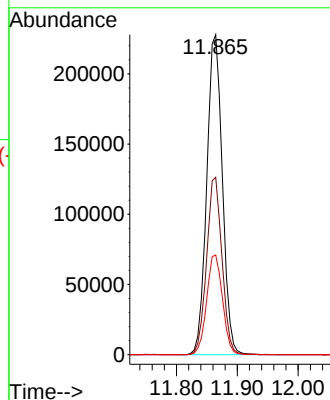
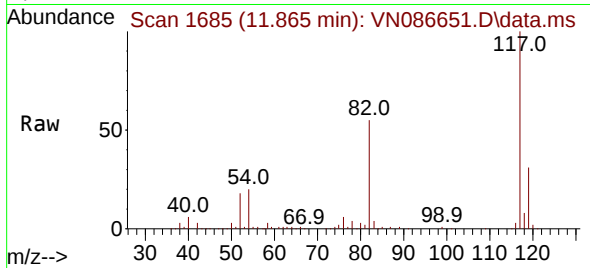




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

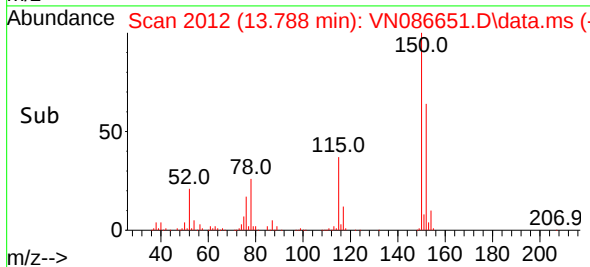
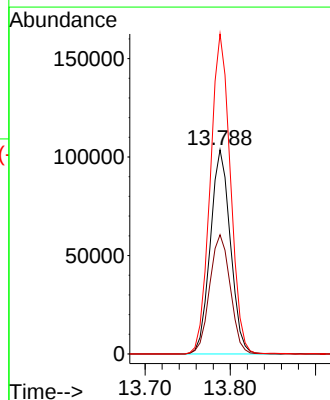
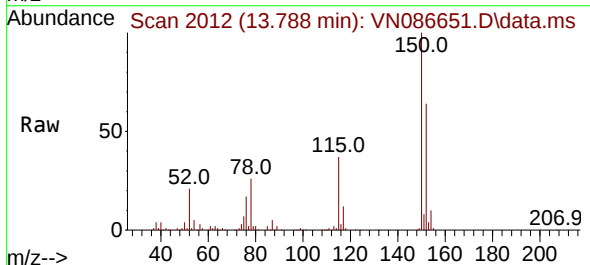
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

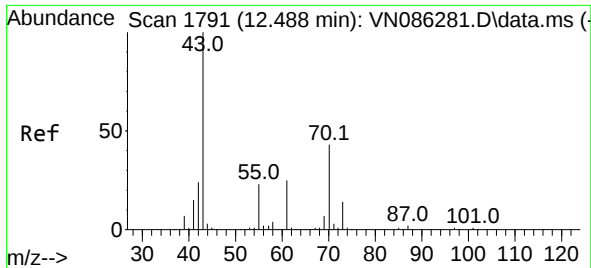
Tgt Ion:117 Resp: 405482
Ion Ratio Lower Upper
117 100
82 55.4 44.7 67.1
119 31.1 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Tgt Ion:152 Resp: 169648
Ion Ratio Lower Upper
152 100
115 59.9 31.9 95.9
150 157.4 0.0 352.0

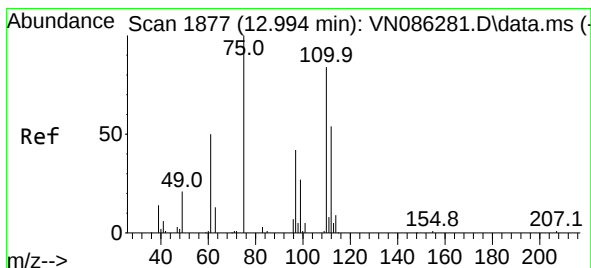
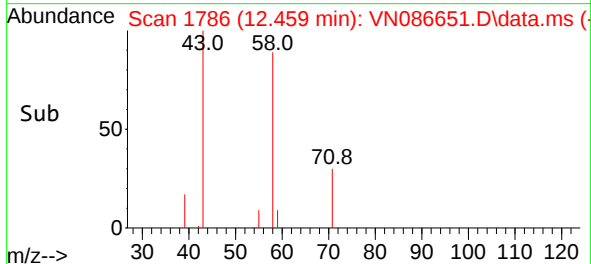
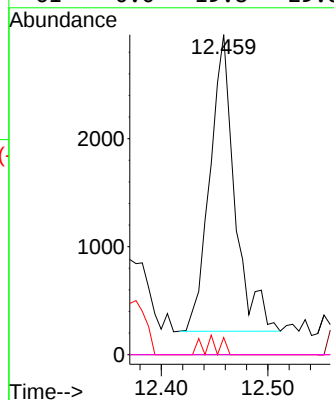
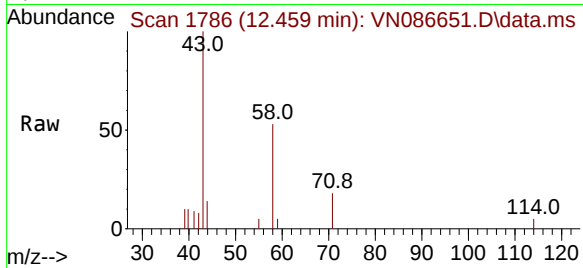




#74
N-amy1 acetate
Concen: 0.647 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

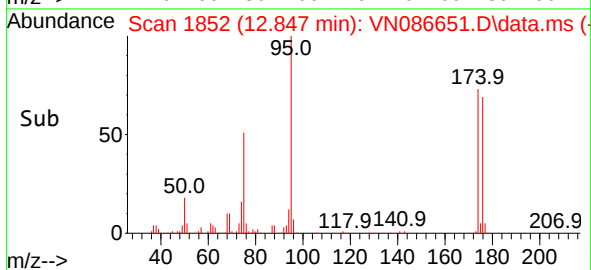
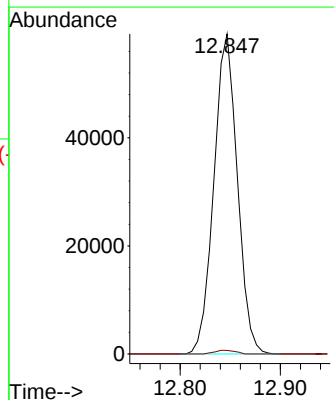
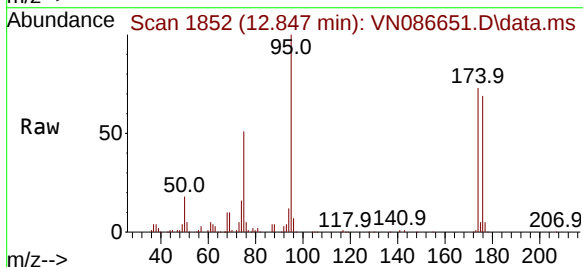
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13

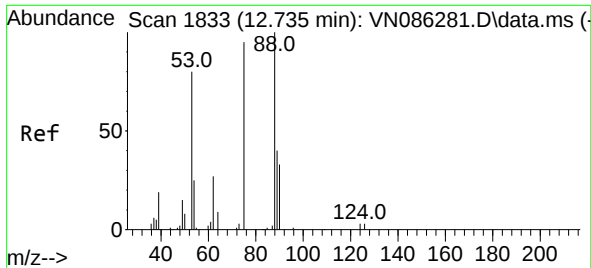
Tgt Ion: 43	Resp: 4467
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 2.7	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.044 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

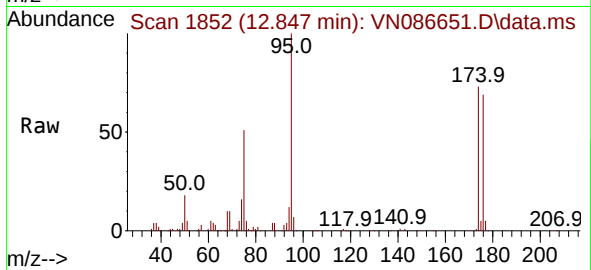
Tgt Ion: 75	Resp:	96258	
Ion Ratio	Lower	Upper	
75 100			
77 1.0	98.8	296.4#	





#81
trans-1,4-Dichloro-2-butene
Concen: 57.744 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086651.D
Acq: 15 May 2025 17:36

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#13



Tgt Ion: 75 Resp: 96258
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

