

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086581.D
 Acq On : 12 May 2025 15:16
 Operator : JC\MD
 Sample : PB167932ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#06

Quant Time: May 13 01:53:24 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)

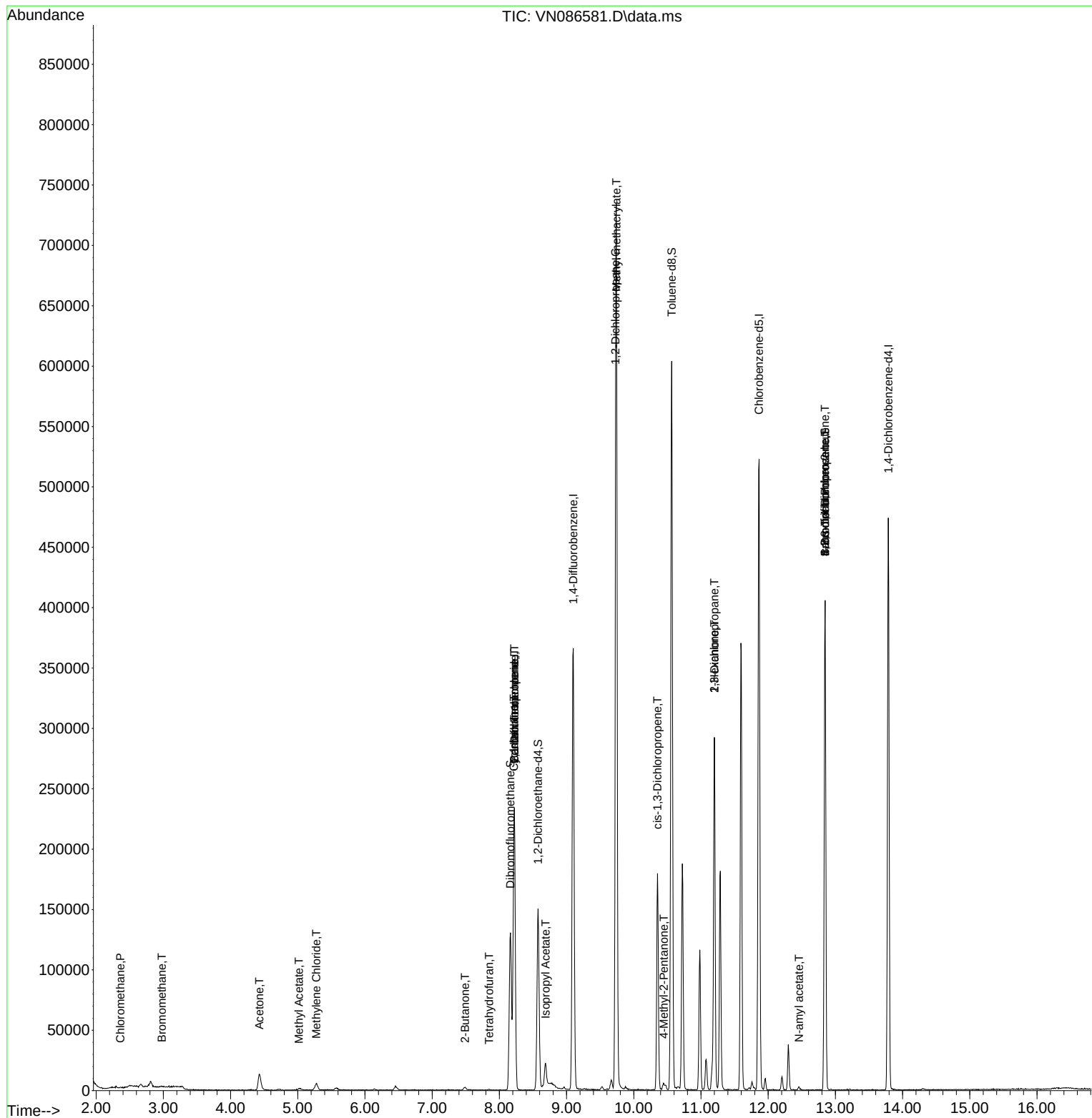
Internal Standards						
1) Pentafluorobenzene	8.224	168	176501	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	331826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311736	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131533	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	124109	48.491	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.980%		
35) Dibromofluoromethane	8.165	113	97601	63.375	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	126.760%#		
50) Toluene-d8	10.565	98	422874	51.377	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.760%		
62) 4-Bromofluorobenzene	12.847	95	146192	48.697	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.400%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	769	0.253	ug/l	98
5) Bromomethane	2.977	94	479	0.367	ug/l #	64
16) Acetone	4.430	43	27082	25.479	ug/l	99
18) Methyl Acetate	5.018	43	3099	1.009	ug/l #	64
20) Methylene Chloride	5.277	84	4296	1.816	ug/l	92
25) 2-Butanone	7.488	43	4244	2.664	ug/l	100
29) Tetrahydrofuran	7.847	42	519	0.487	ug/l #	32
31) Cyclohexane	8.218	56	3842	0.926	ug/l #	12
36) 1,1-Dichloropropene	8.224	75	14044	4.566	ug/l #	48
38) Carbon Tetrachloride	8.224	117	17868	6.100	ug/l #	14
43) Isopropyl Acetate	8.688	43	30592	3.463	ug/l #	83
45) 1,2-Dichloropropane	9.729	63	915	0.379	ug/l #	43
48) Methyl methacrylate	9.741	41	68548	24.104	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	4107	1.238	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	33279	8.176	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	2994	0.763	ug/l #	43
59) 2-Hexanone	11.200	43	55655	22.627	ug/l #	43
71) Bromoform	12.847	173	718	0.416	ug/l #	1
74) N-amyl acetate	12.459	43	2503	0.467	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	74201	23.905	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74201	57.411	ug/l #	10

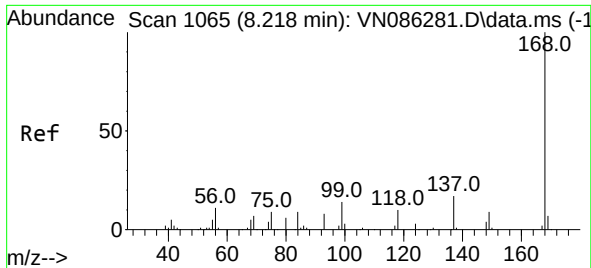
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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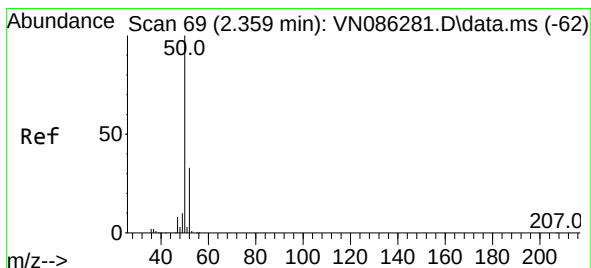
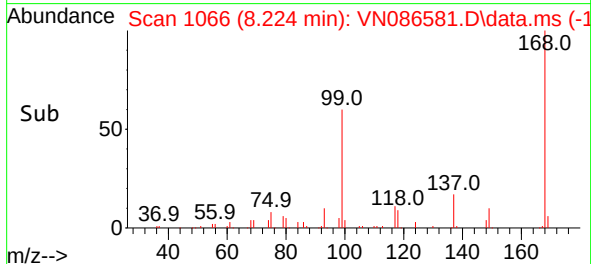
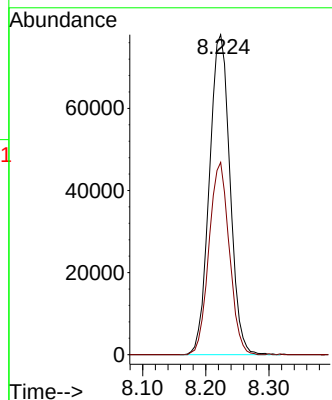
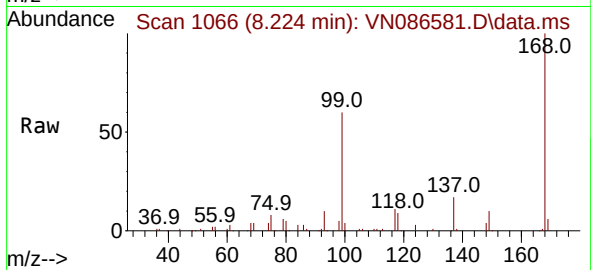




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

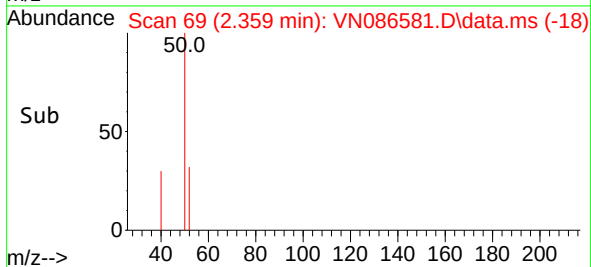
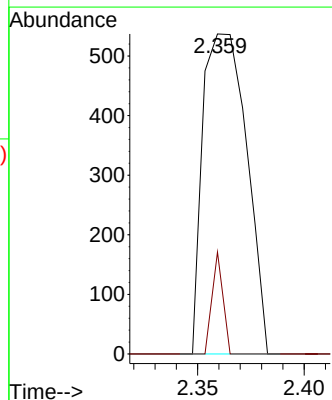
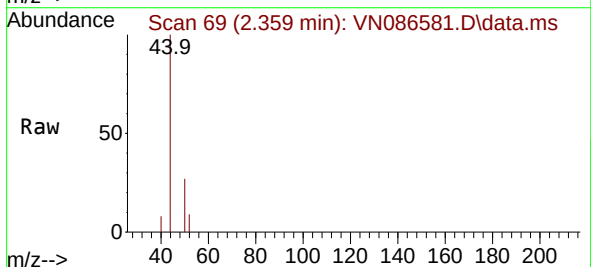
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

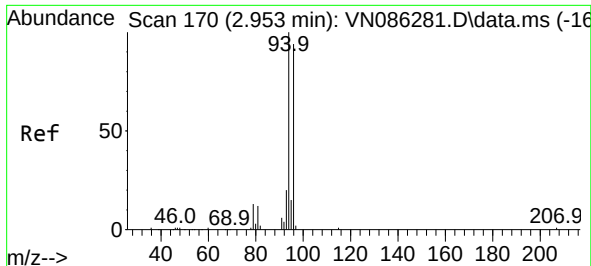
Tgt Ion:168 Resp: 176501
Ion Ratio Lower Upper
168 100
99 60.1 52.5 78.7



#3
Chloromethane
Concen: 0.253 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion: 50 Resp: 769
Ion Ratio Lower Upper
50 100
52 31.8 26.5 39.7

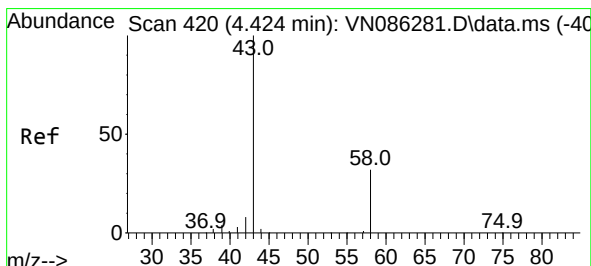
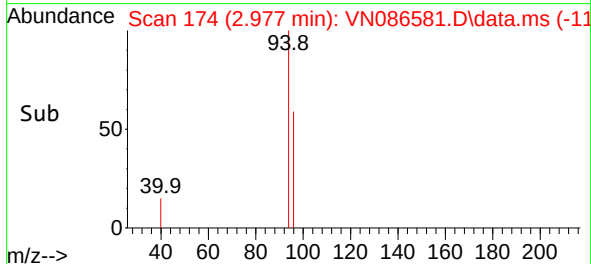
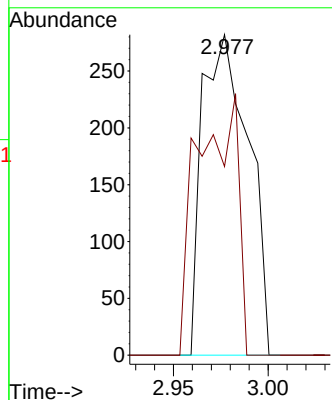
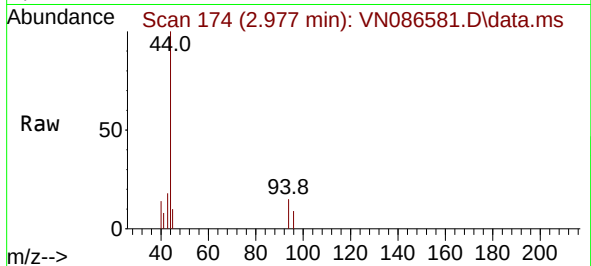




#5
Bromomethane
Concen: 0.367 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

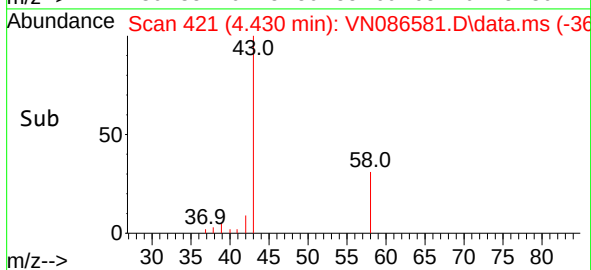
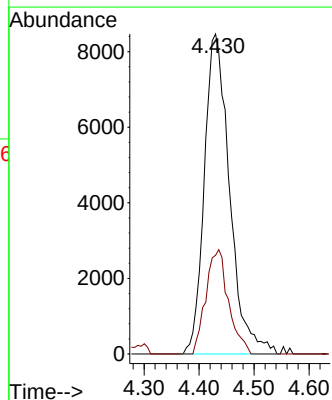
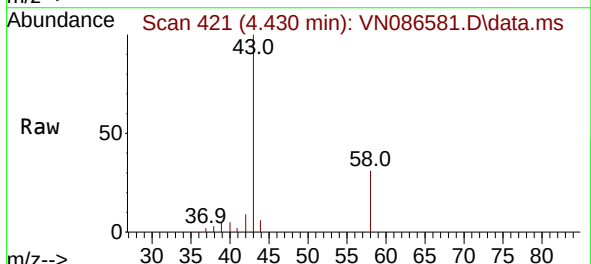
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

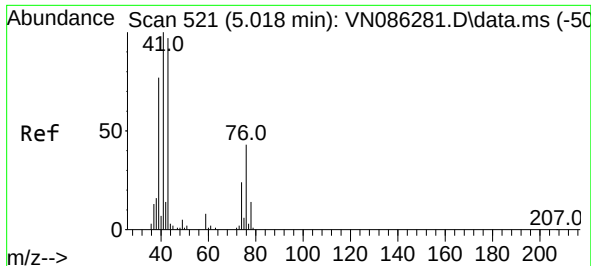
Tgt Ion: 94 Resp: 479
Ion Ratio Lower Upper
94 100
96 58.9 75.2 112.8#



#16
Acetone
Concen: 25.479 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion: 43 Resp: 27082
Ion Ratio Lower Upper
43 100
58 30.8 25.3 37.9

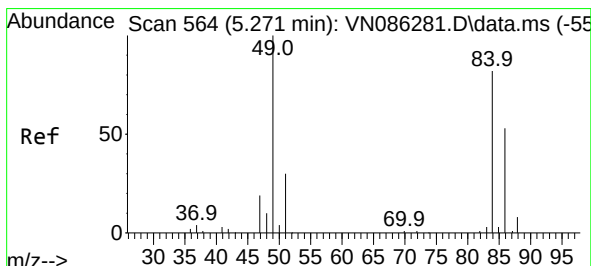
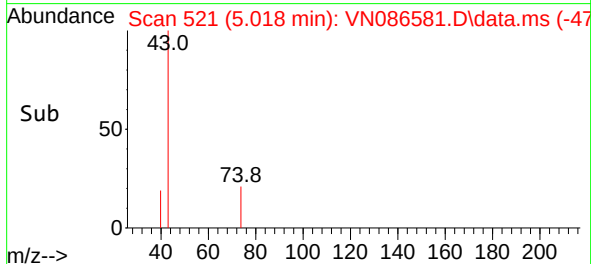
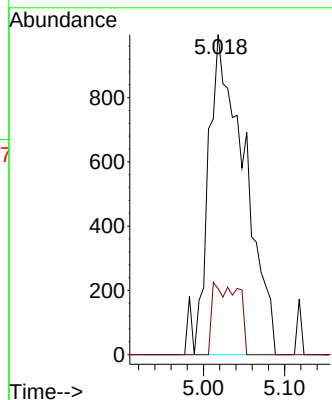
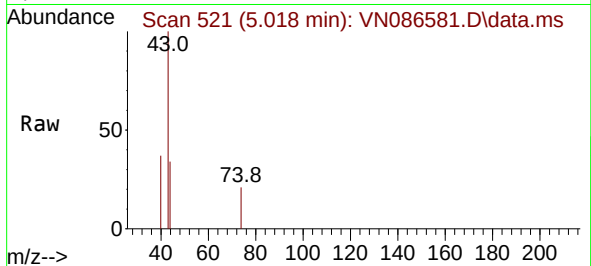




#18
Methyl Acetate
Concen: 1.009 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

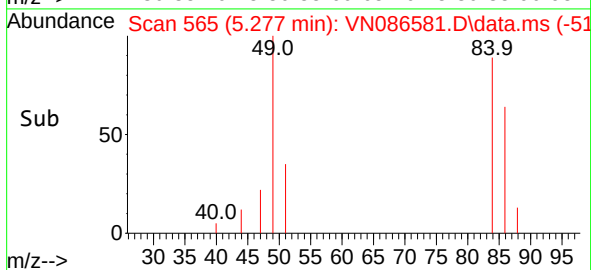
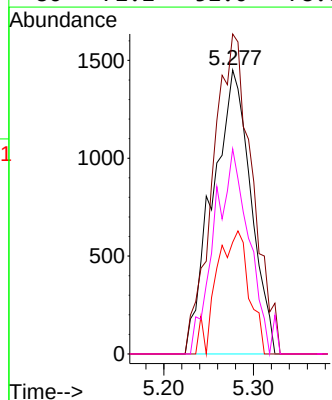
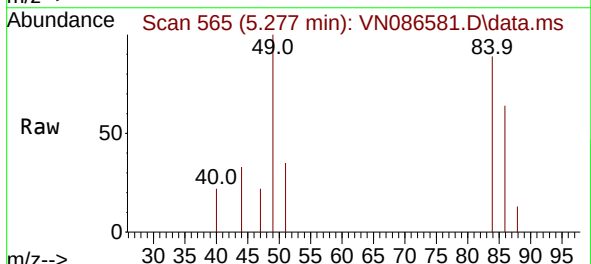
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

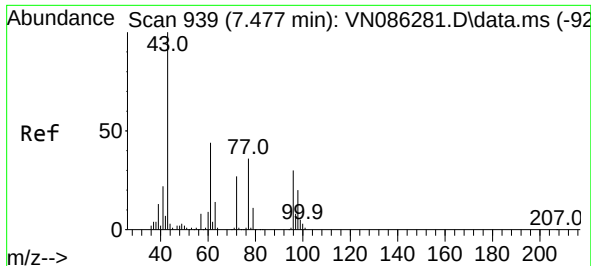
Tgt Ion: 43 Resp: 3099
Ion Ratio Lower Upper
43 100
74 6.9 19.8 29.6#



#20
Methylene Chloride
Concen: 1.816 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion: 84 Resp: 4296
Ion Ratio Lower Upper
84 100
49 112.7 98.2 147.2
51 39.4 29.8 44.6
86 72.2 52.0 78.0

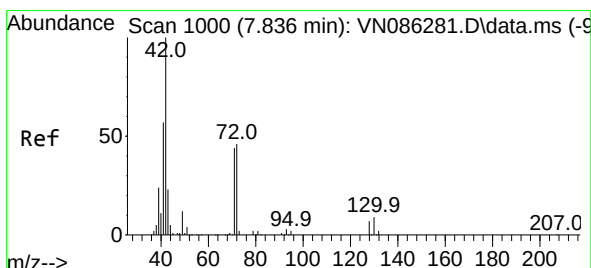
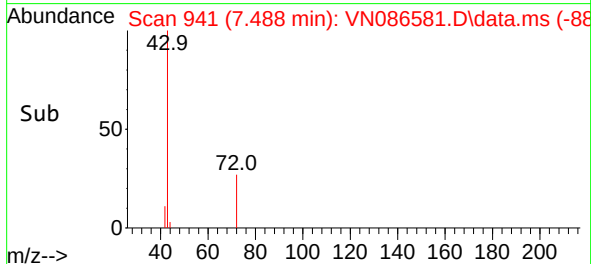
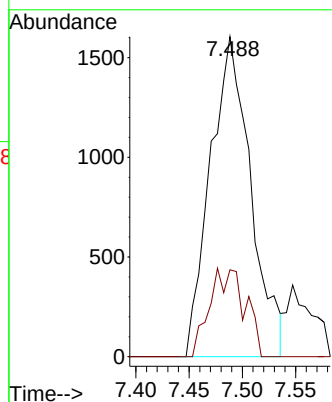
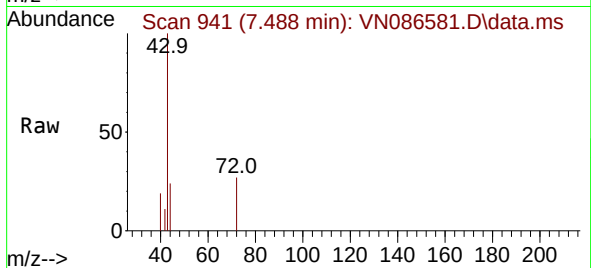




#25
2-Butanone
Concen: 2.664 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

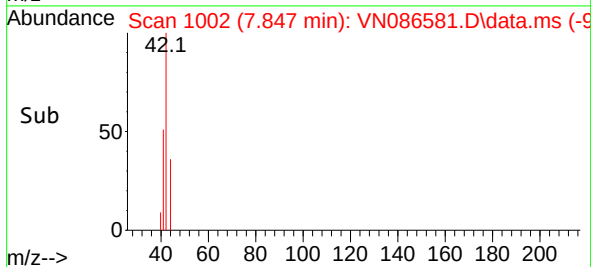
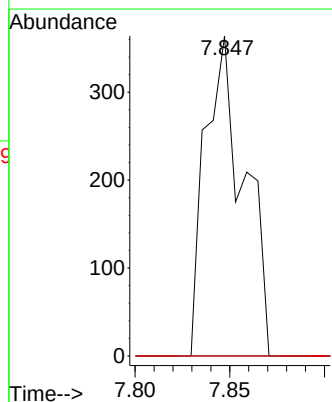
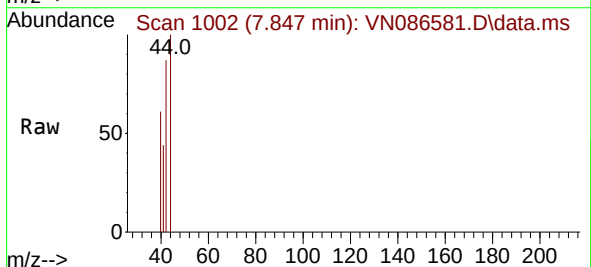
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

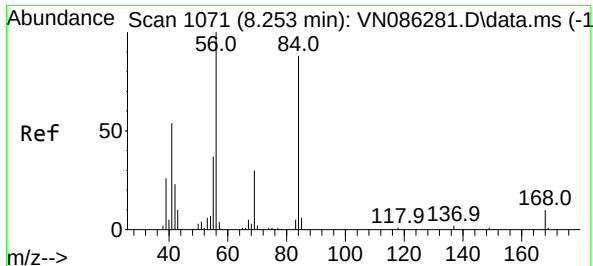
Tgt Ion: 43 Resp: 4244
Ion Ratio Lower Upper
43 100
72 27.2 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.487 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

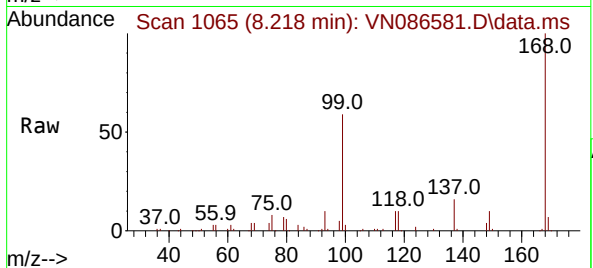
Tgt Ion: 42 Resp: 519
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.0 51.0#



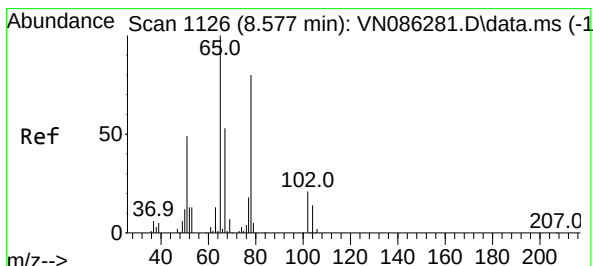
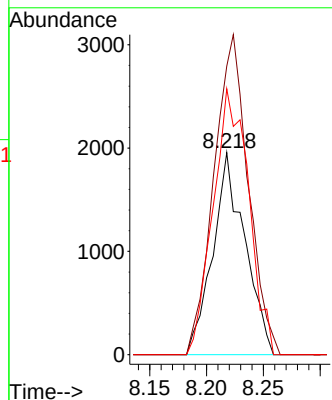
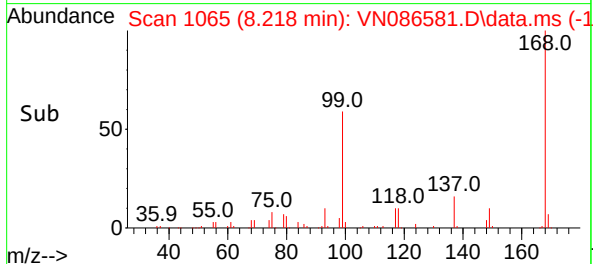


#31
Cyclohexane
Concen: 0.926 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

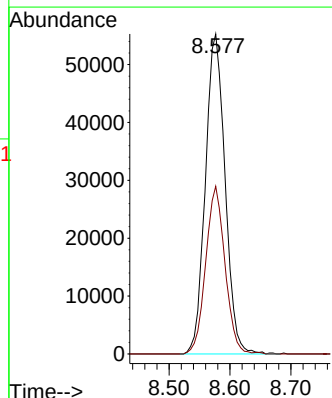
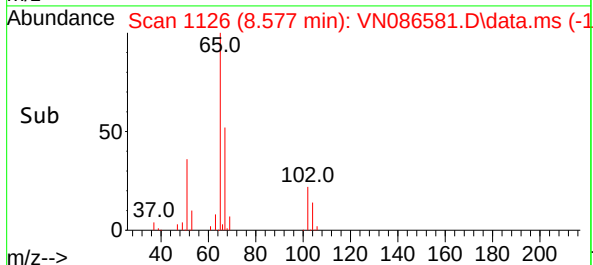
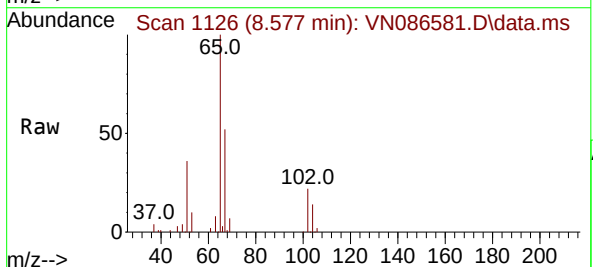


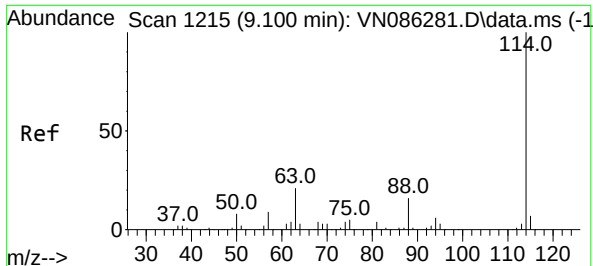
Tgt Ion: 56 Resp: 3842
Ion Ratio Lower Upper
56 100
69 142.7 24.2 36.2#
84 131.6 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.491 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion: 65 Resp: 124109
Ion Ratio Lower Upper
65 100
67 51.4 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086581.D

Acq: 12 May 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#06

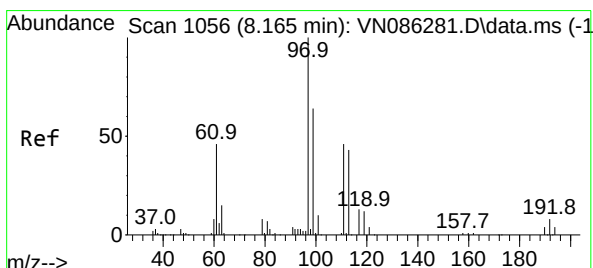
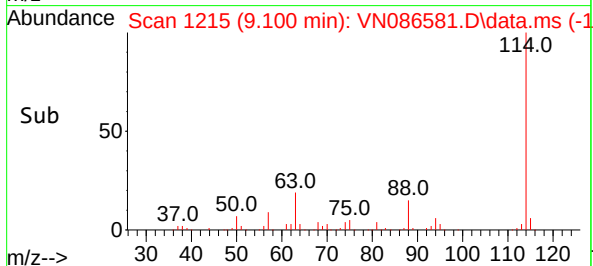
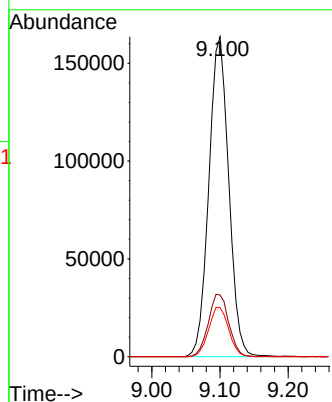
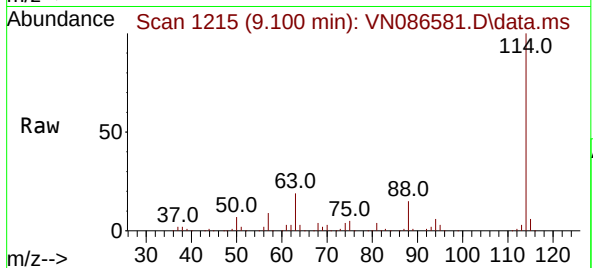
Tgt Ion:114 Resp: 331826

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.6

88 15.4 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.375 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086581.D

Acq: 12 May 2025 15:16

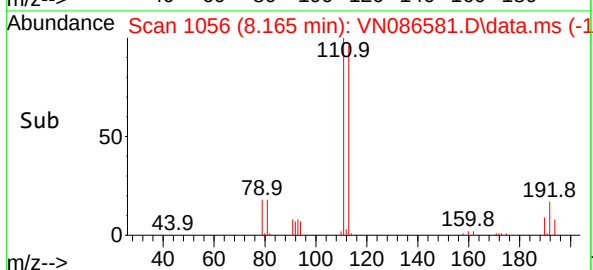
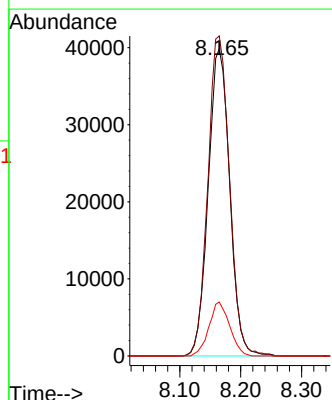
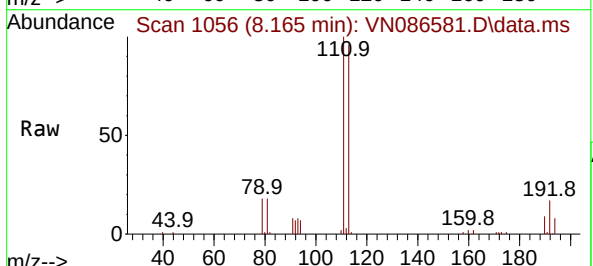
Tgt Ion:113 Resp: 97601

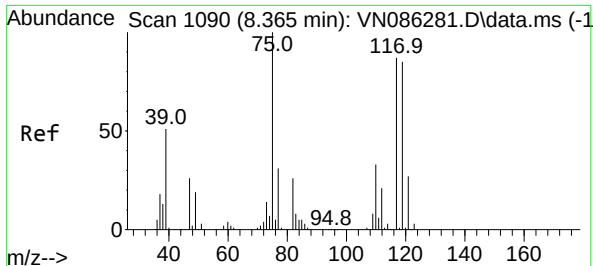
Ion Ratio Lower Upper

113 100

111 105.0 83.4 125.0

192 16.9 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.566 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086581.D

Acq: 12 May 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#06

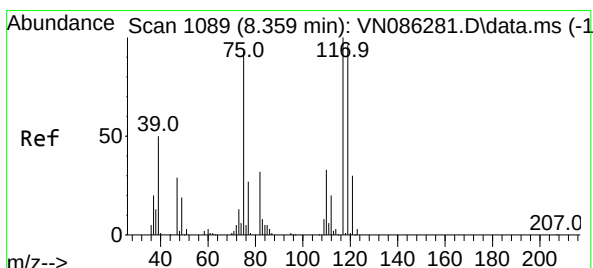
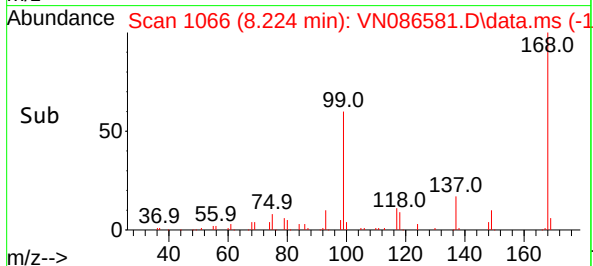
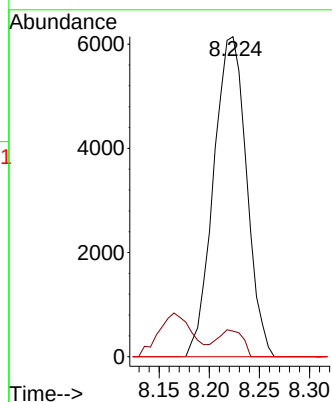
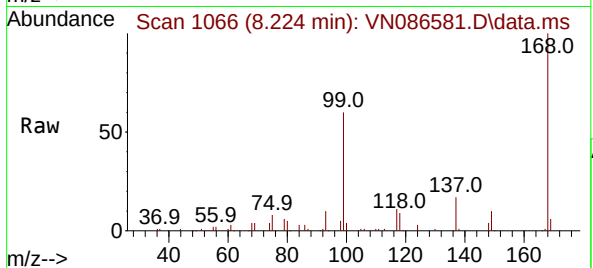
Tgt Ion: 75 Resp: 14044

Ion Ratio Lower Upper

75 100

110 6.3 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.100 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086581.D

Acq: 12 May 2025 15:16

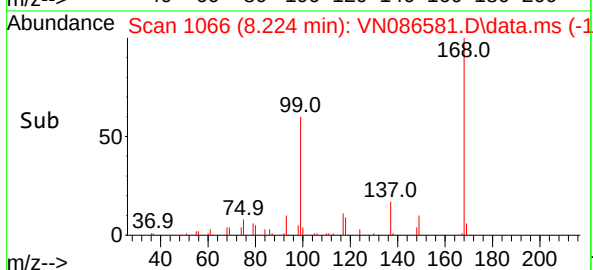
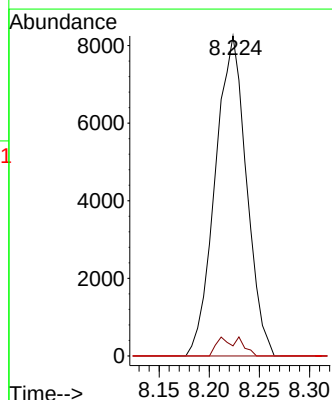
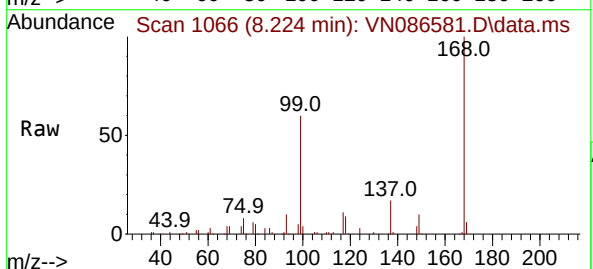
Tgt Ion: 117 Resp: 17868

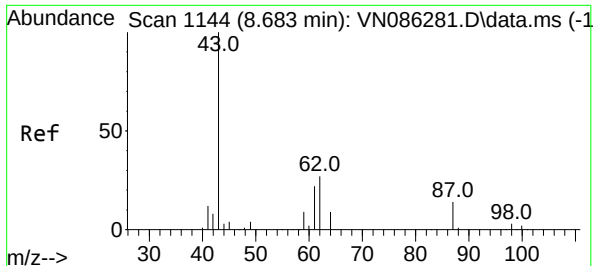
Ion Ratio Lower Upper

117 100

119 3.1 76.8 115.2#

121 0.0 23.8 35.8#

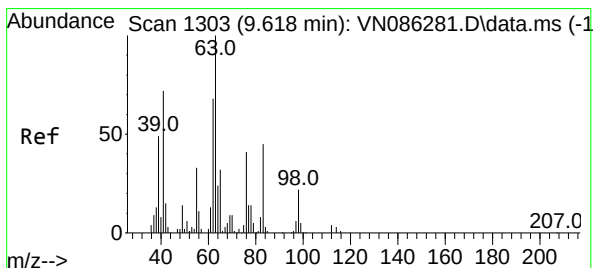
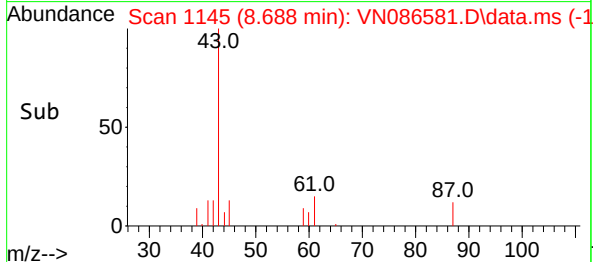
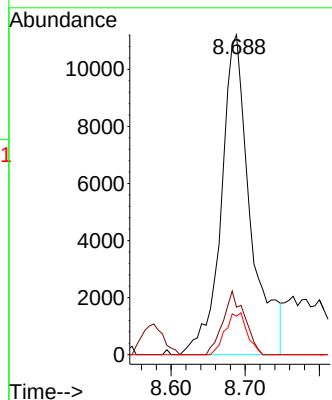
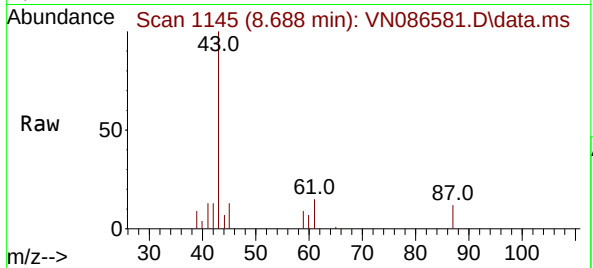




#43
Isopropyl Acetate
Concen: 3.463 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

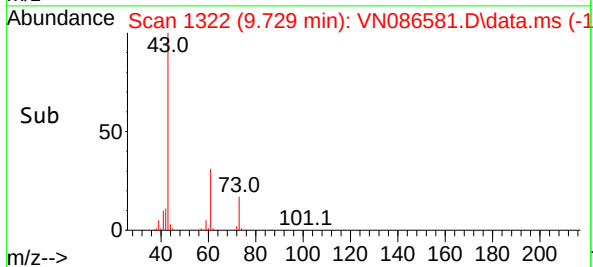
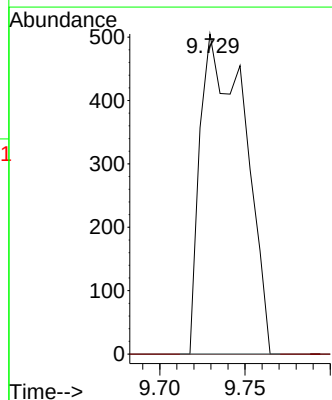
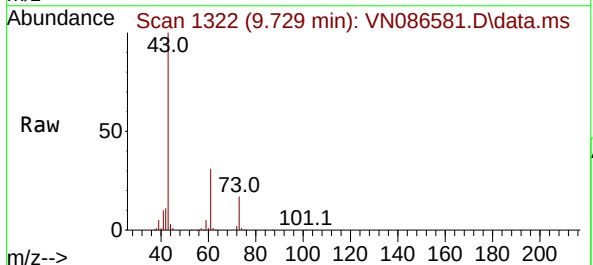
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

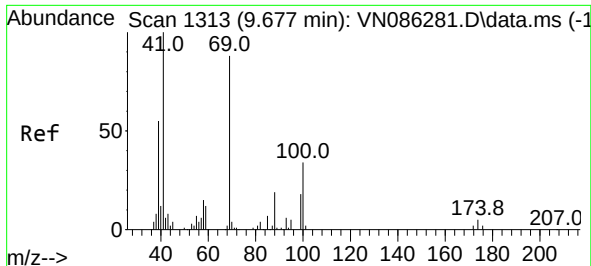
Tgt Ion: 43 Resp: 30592
Ion Ratio Lower Upper
43 100
61 14.8 20.5 30.7#
87 9.8 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.379 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion: 63 Resp: 915
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

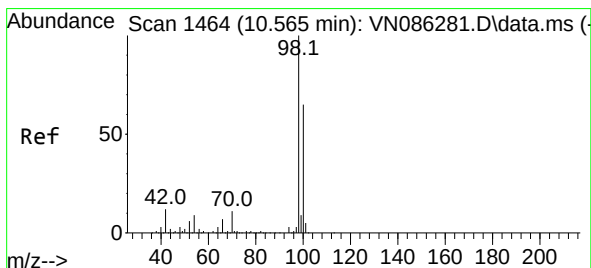
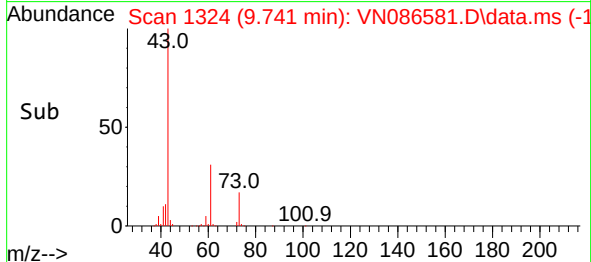
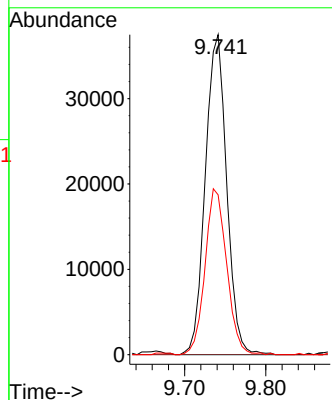
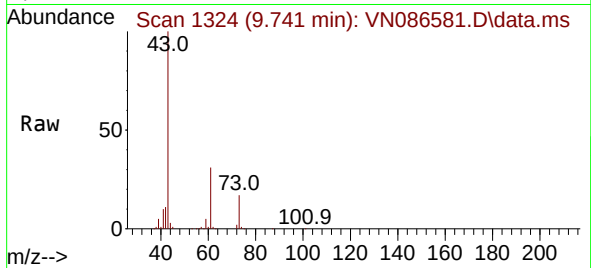




#48
Methyl methacrylate
Concen: 24.104 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

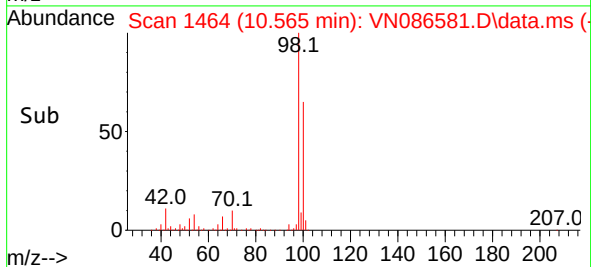
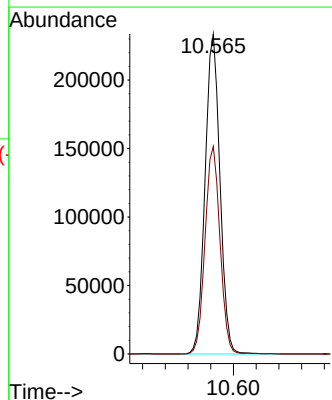
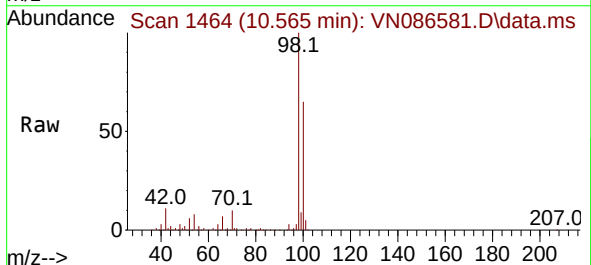
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

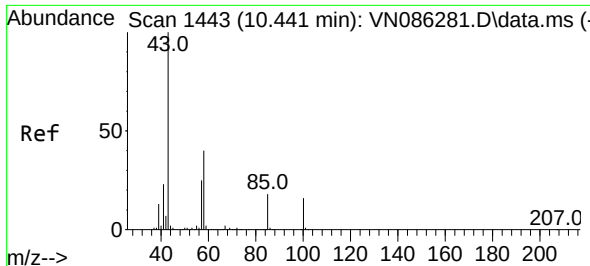
Tgt Ion: 41 Resp: 68548
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 52.5 45.2 67.8



#50
Toluene-d8
Concen: 51.377 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion: 98 Resp: 422874
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 1.238 ug/l

RT: 10.447 min Scan# 1443

Delta R.T. 0.006 min

Lab File: VN086581.D

Acq: 12 May 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

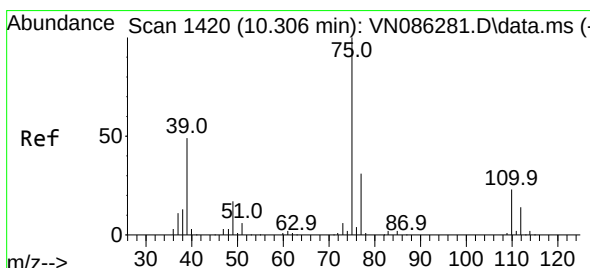
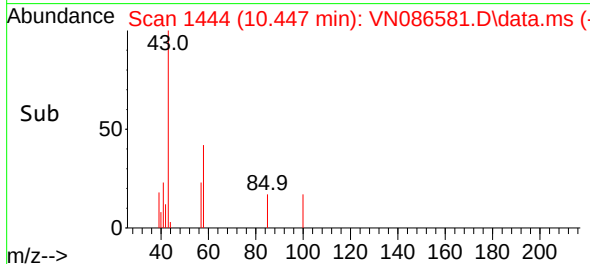
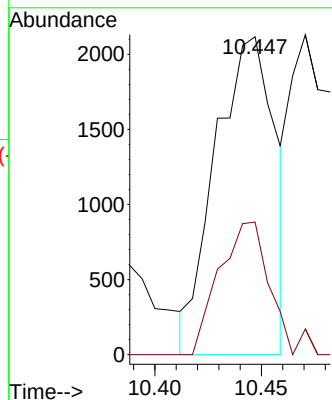
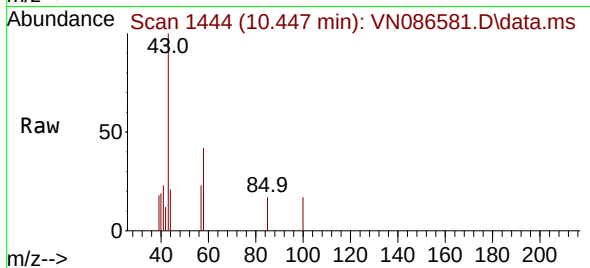
PB167932ZHE#06

Tgt Ion: 43 Resp: 4107

Ion Ratio Lower Upper

43 100

58 36.0 32.2 48.4



#54

cis-1,3-Dichloropropene

Concen: 8.176 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.047 min

Lab File: VN086581.D

Acq: 12 May 2025 15:16

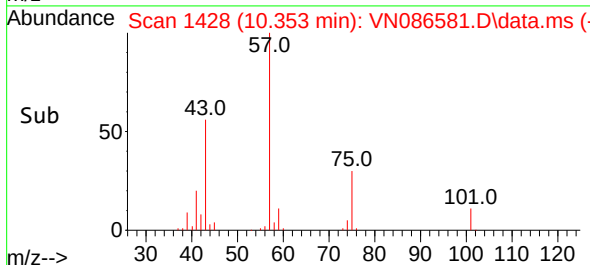
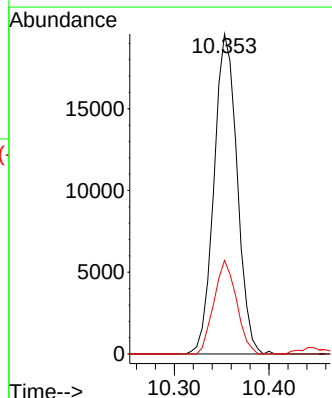
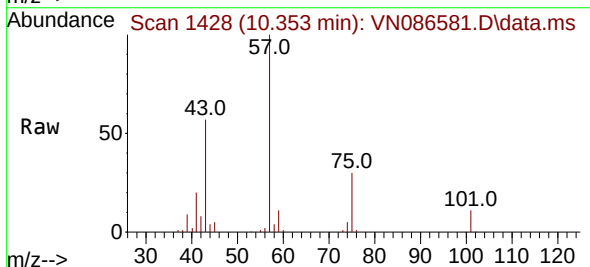
Tgt Ion: 75 Resp: 33279

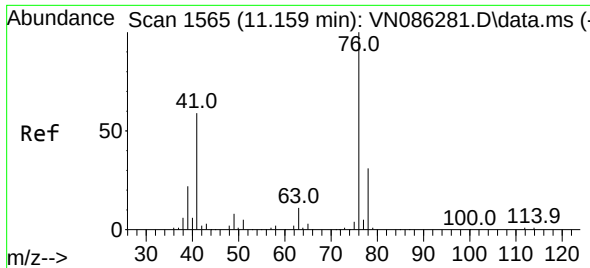
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 29.2 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.763 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086581.D

Acq: 12 May 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

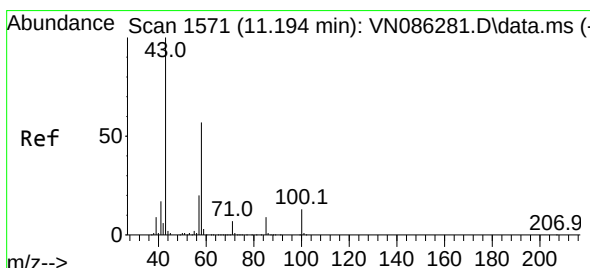
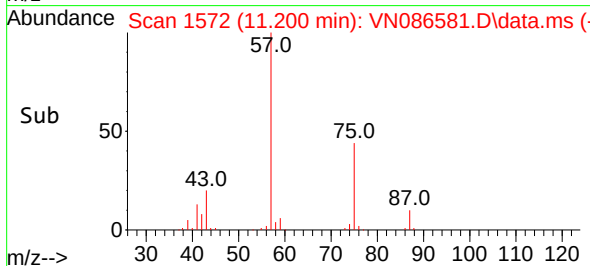
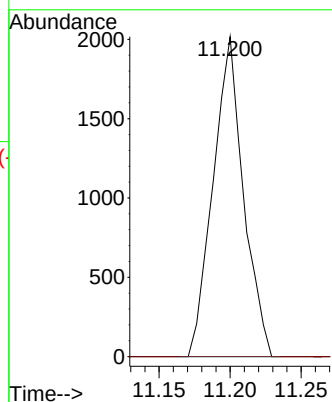
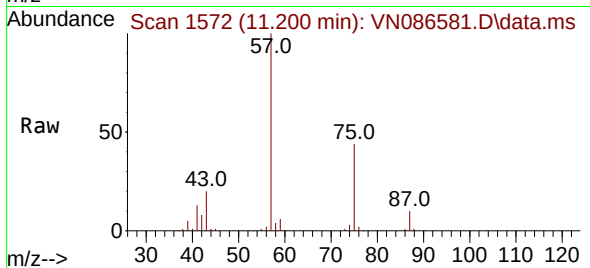
PB167932ZHE#06

Tgt Ion: 76 Resp: 2994

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.627 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086581.D

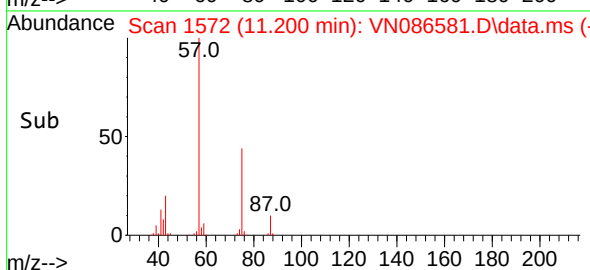
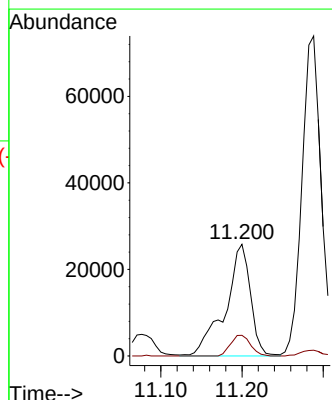
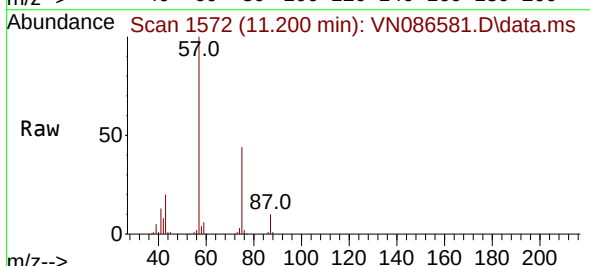
Acq: 12 May 2025 15:16

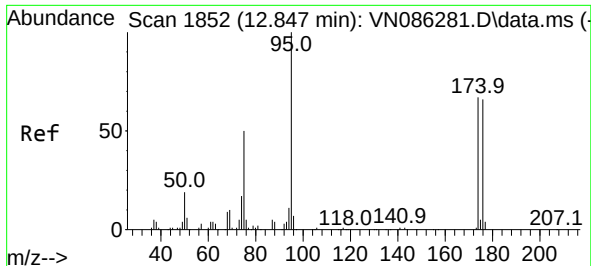
Tgt Ion: 43 Resp: 55655

Ion Ratio Lower Upper

43 100

58 14.7 28.3 85.0#

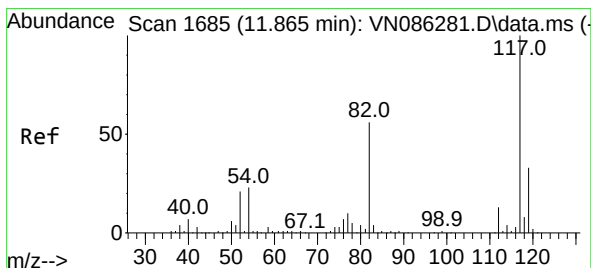
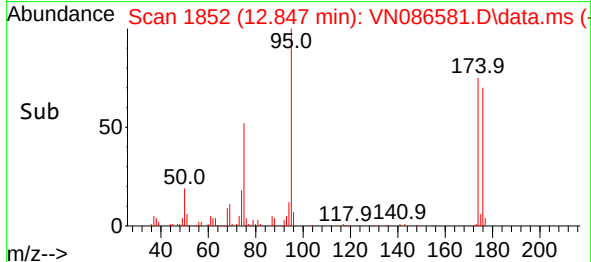
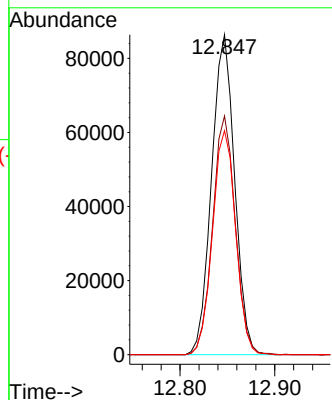
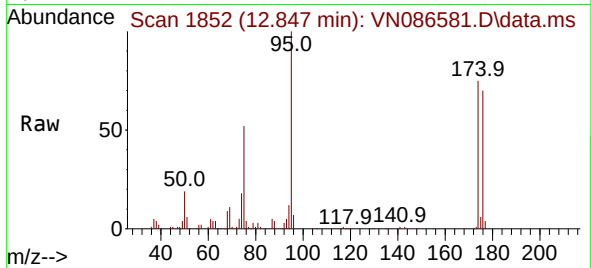




#62
4-Bromofluorobenzene
Concen: 48.697 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

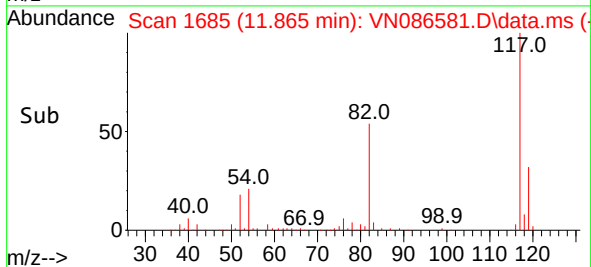
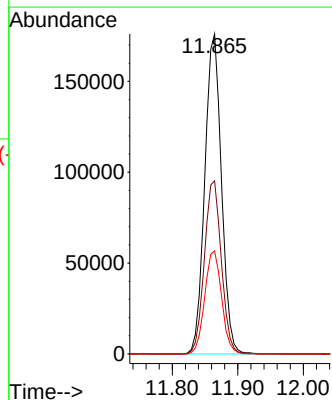
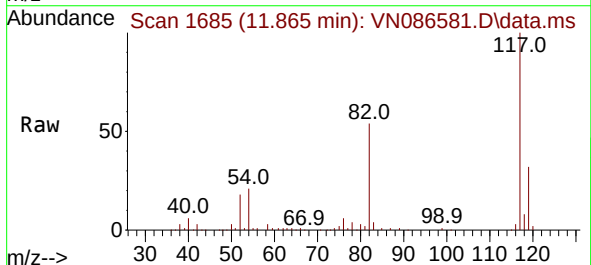
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

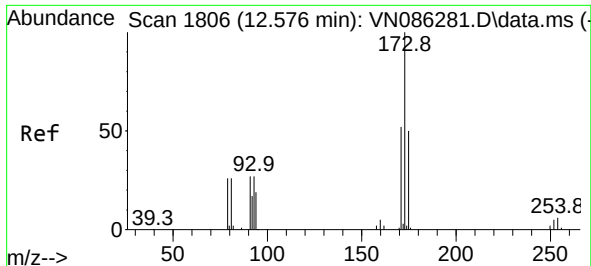
Tgt Ion: 95 Resp: 146192
Ion Ratio Lower Upper
95 100
174 73.5 0.0 133.4
176 70.2 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion: 117 Resp: 311736
Ion Ratio Lower Upper
117 100
82 54.1 44.7 67.1
119 32.2 26.4 39.6

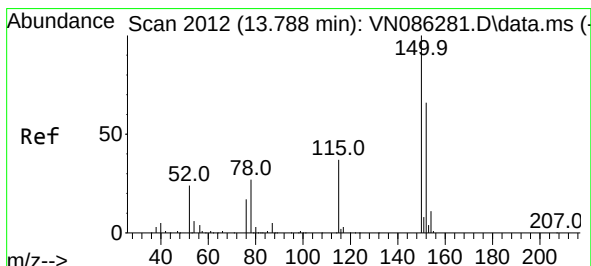
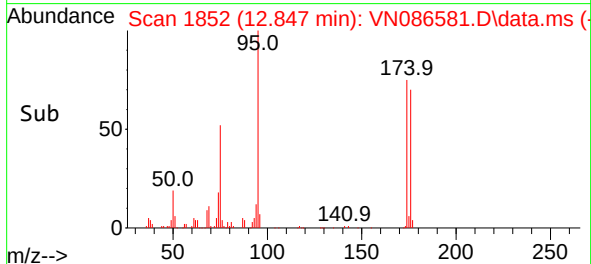
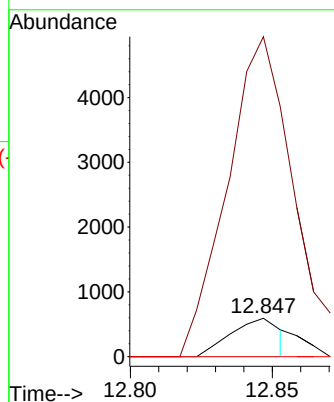
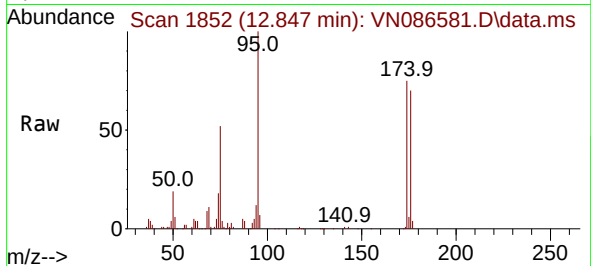




#71
Bromoform
Concen: 0.416 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

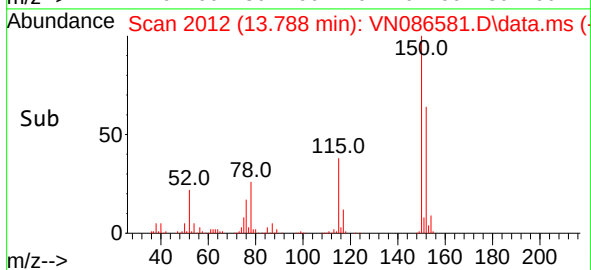
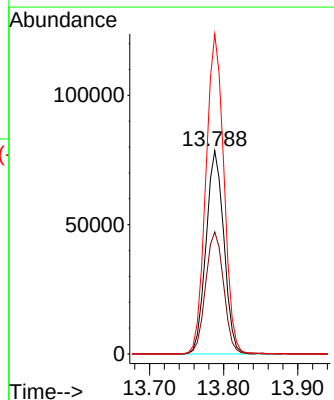
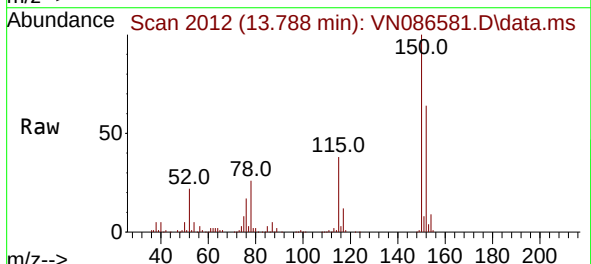
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

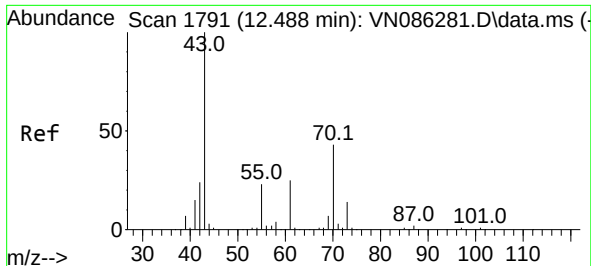
Tgt Ion:173 Resp: 718
Ion Ratio Lower Upper
173 100
175 906.1 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Tgt Ion:152 Resp: 131533
Ion Ratio Lower Upper
152 100
115 60.7 31.9 95.9
150 158.8 0.0 352.0

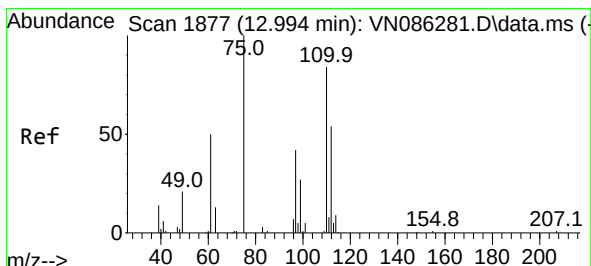
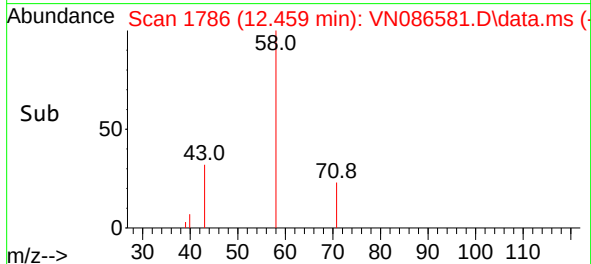
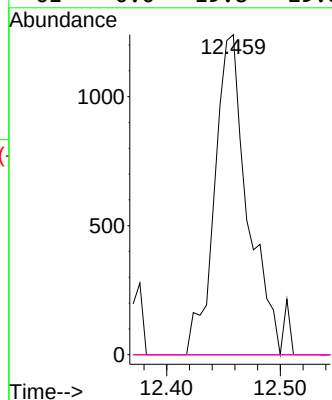
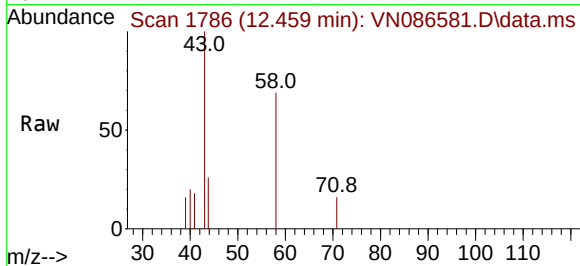




#74
N-amy1 acetate
Concen: 0.467 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

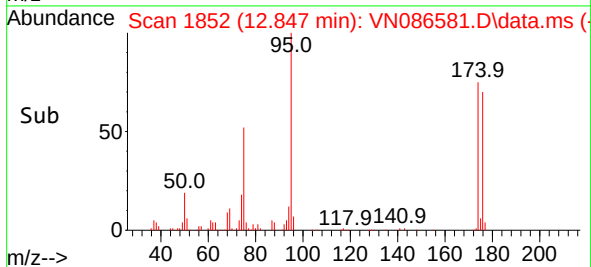
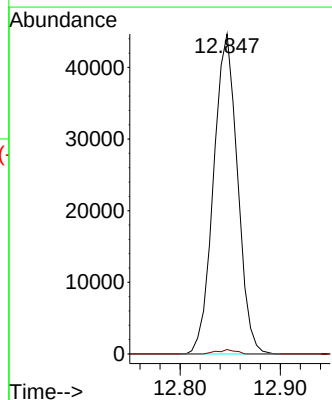
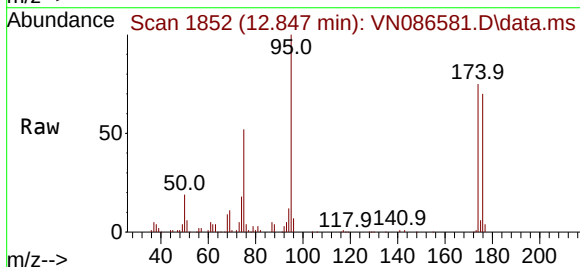
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06

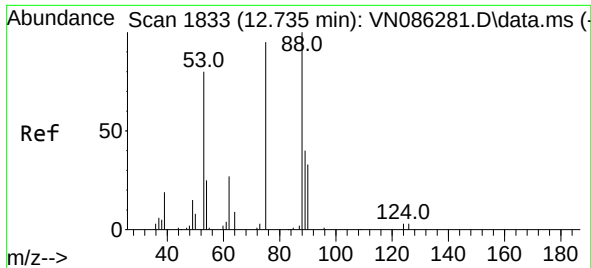
Tgt Ion: 43	Resp: 2503
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 0.0	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 23.905 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

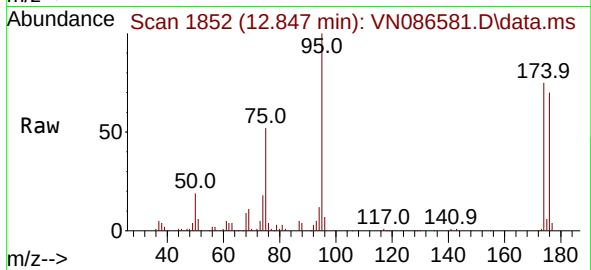
Tgt Ion: 75	Resp:	74201	
Ion Ratio	Lower	Upper	
75 100			
77 1.1	98.8	296.4#	





#81
trans-1,4-Dichloro-2-butene
Concen: 57.411 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086581.D
Acq: 12 May 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#06



Tgt Ion: 75 Resp: 74201
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

