

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086641.D
 Acq On : 15 May 2025 13:35
 Operator : JC\MD
 Sample : PB167995ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#03

Quant Time: May 16 05:26:31 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)

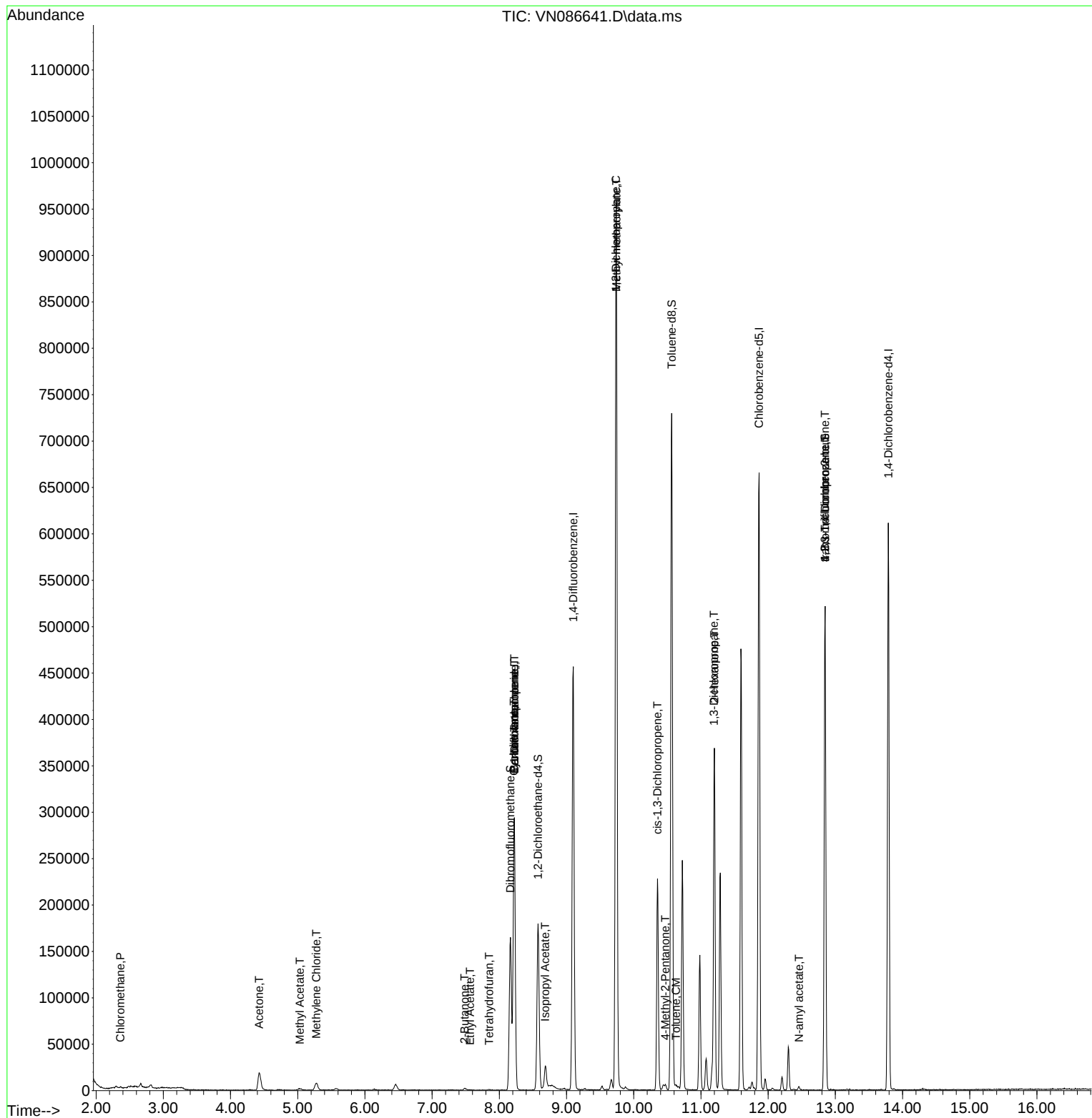
Internal Standards						
1) Pentafluorobenzene	8.224	168	220660	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	417010	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	408457	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	172452	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	148974	46.558	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.120%			
35) Dibromofluoromethane	8.165	113	121771	62.918	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 125.840%#			
50) Toluene-d8	10.565	98	534230	51.648	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.300%			
62) 4-Bromofluorobenzene	12.847	95	194491	51.551	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.100%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	980	0.258	ug/l #	77
16) Acetone	4.424	43	37537	28.883	ug/l	99
18) Methyl Acetate	5.030	43	3405	0.887	ug/l	96
20) Methylene Chloride	5.277	84	6563	2.219	ug/l	85
25) 2-Butanone	7.483	43	3375	1.695	ug/l	93
29) Tetrahydrofuran	7.847	42	395	0.297	ug/l #	73
31) Cyclohexane	8.218	56	4579	0.883	ug/l #	9
36) 1,1-Dichloropropene	8.224	75	17422	4.507	ug/l #	49
37) Ethyl Acetate	7.565	43	833	0.205	ug/l #	68
38) Carbon Tetrachloride	8.224	117	22128	6.011	ug/l #	17
43) Isopropyl Acetate	8.683	43	33623	2.792	ug/l #	87
45) 1,2-Dichloropropane	9.735	63	1323	0.436	ug/l #	43
48) Methyl methacrylate	9.741	41	84742	23.711	ug/l #	41
51) 4-Methyl-2-Pentanone	10.471	43	5094	1.222	ug/l #	35
52) Toluene	10.630	92	2069	0.268	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	43810	8.565	ug/l #	56
57) 1,3-Dichloropropane	11.194	76	4017	0.814	ug/l #	43
59) 2-Hexanone	11.200	43	69857	22.599	ug/l #	44
74) N-amyl acetate	12.459	43	3275	0.466	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	94901	23.319	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	94901	56.005	ug/l #	10

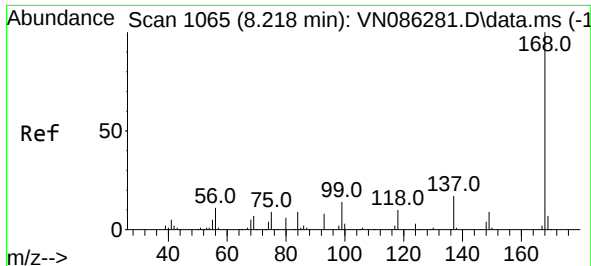
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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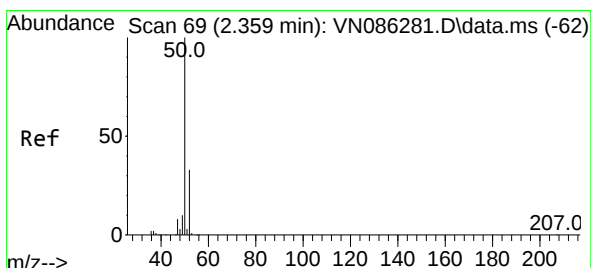
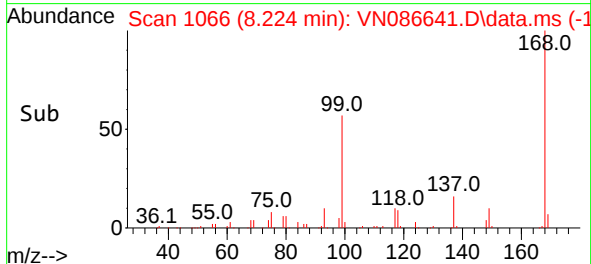
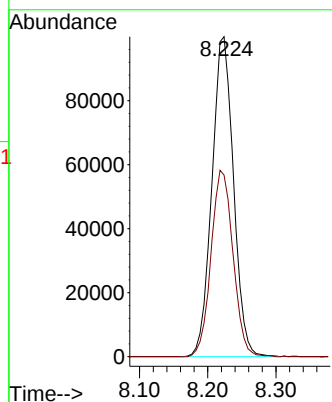
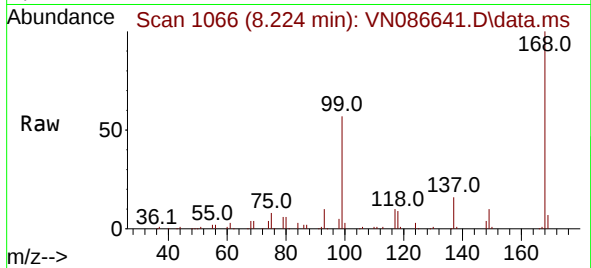




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

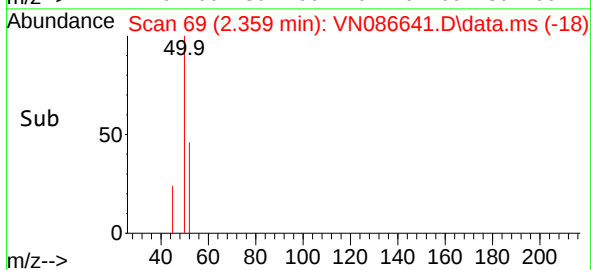
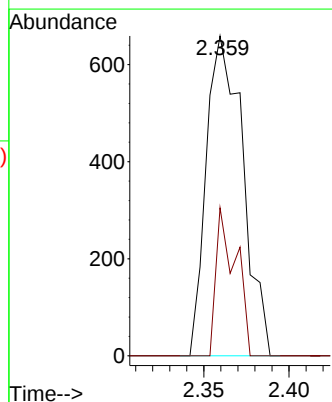
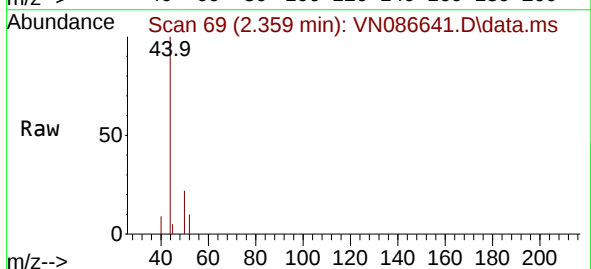
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#03

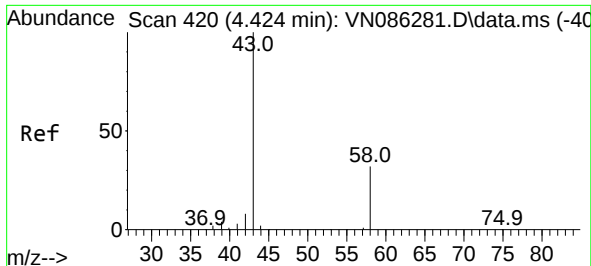
Tgt Ion:168 Resp: 220660
Ion Ratio Lower Upper
168 100
99 56.7 52.5 78.7



#3
Chloromethane
Concen: 0.258 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

Tgt Ion: 50 Resp: 980
Ion Ratio Lower Upper
50 100
52 46.3 26.5 39.7#





#16

Acetone

Concen: 28.883 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086641.D

Acq: 15 May 2025 13:35

Instrument :

MSVOA_N

ClientSampleId :

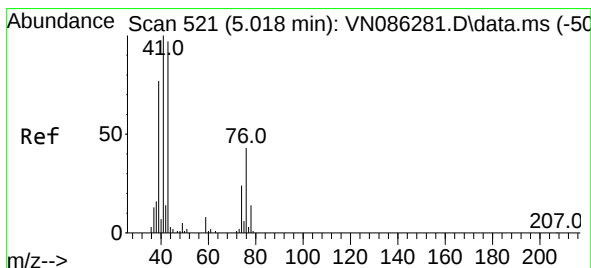
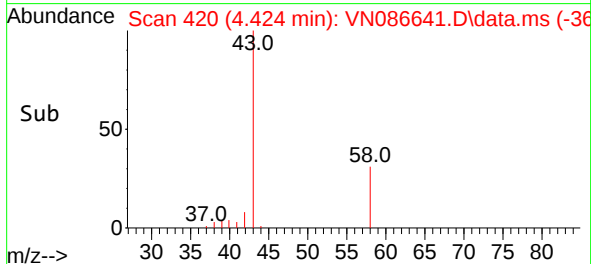
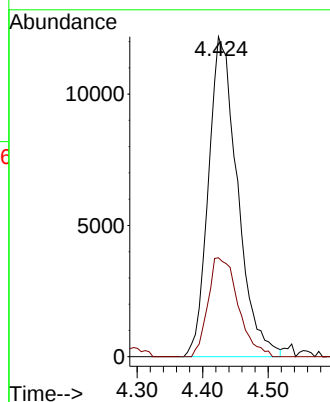
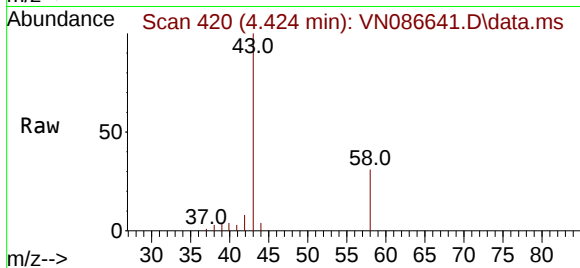
PB167995ZHE#03

Tgt Ion: 43 Resp: 37537

Ion Ratio Lower Upper

43 100

58 30.9 25.3 37.9



#18

Methyl Acetate

Concen: 0.887 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN086641.D

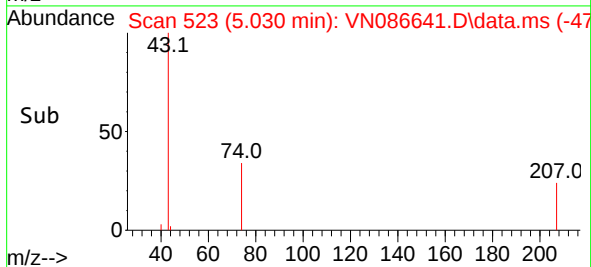
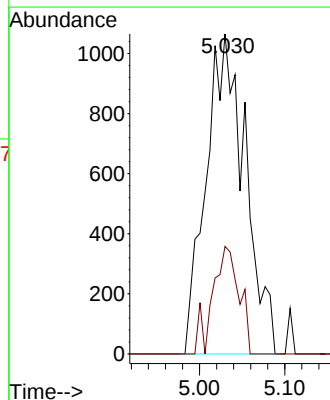
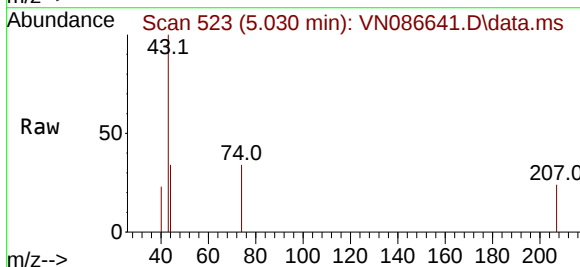
Acq: 15 May 2025 13:35

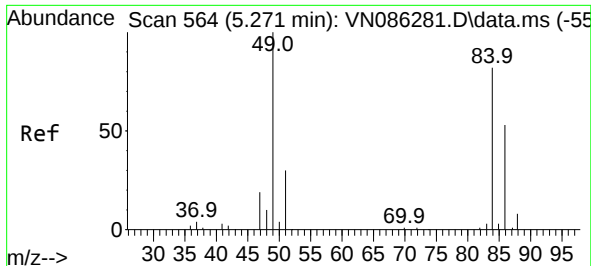
Tgt Ion: 43 Resp: 3405

Ion Ratio Lower Upper

43 100

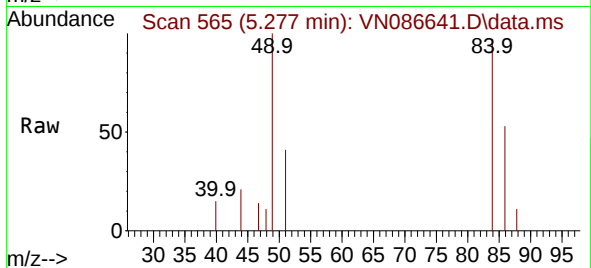
74 22.6 19.8 29.6



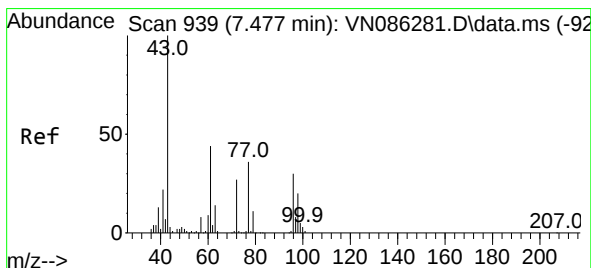
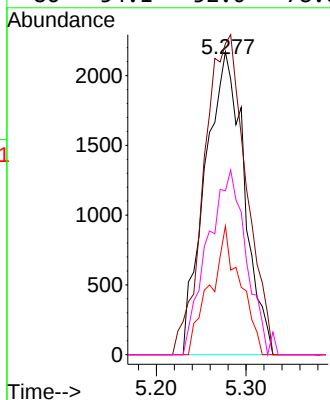
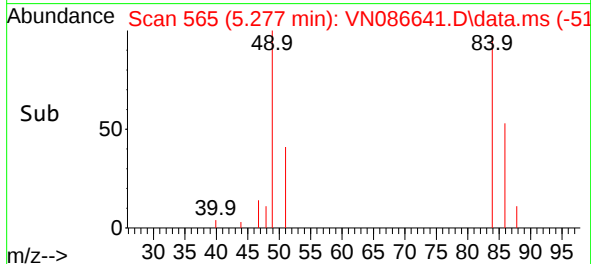


#20
Methylene Chloride
Concen: 2.219 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

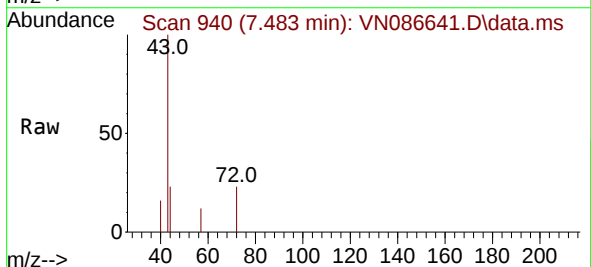
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#03



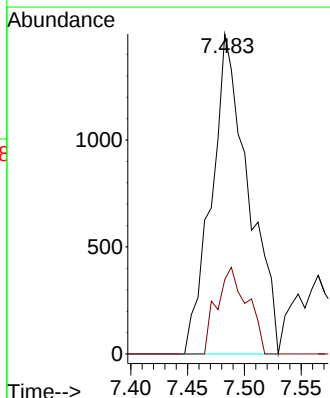
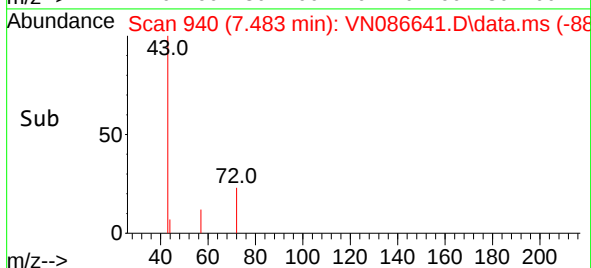
Tgt Ion: 84	Resp: 6563
Ion Ratio	Lower Upper
84 100	
49 102.7	98.2 147.2
51 42.5	29.8 44.6
86 54.1	52.0 78.0

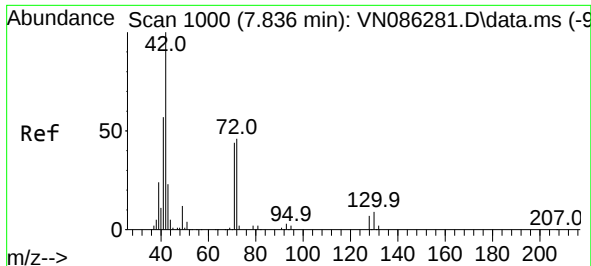


#25
2-Butanone
Concen: 1.695 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35



Tgt Ion: 43	Resp: 3375		
Ion Ratio	Lower	Upper	
43 100			
72 23.3	21.7	32.5	





#29

Tetrahydrofuran

Concen: 0.297 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086641.D

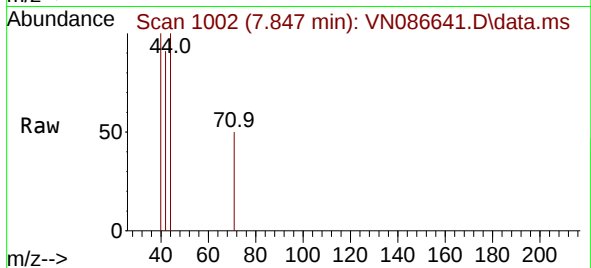
Acq: 15 May 2025 13:35

Instrument :

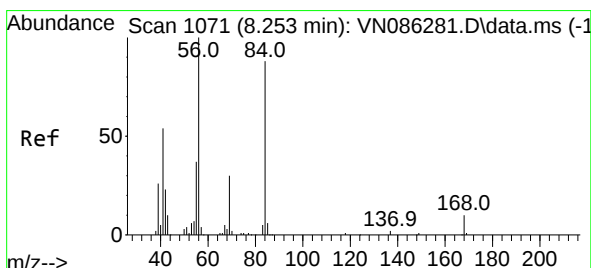
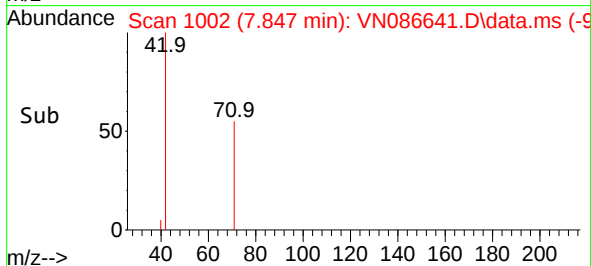
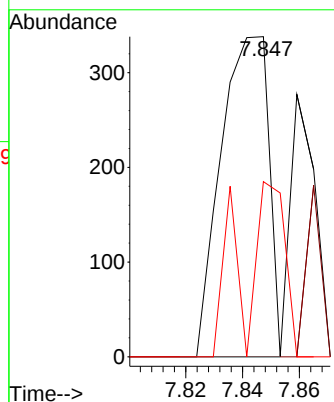
MSVOA_N

ClientSampleId :

PB167995ZHE#03



Tgt Ion: 42	Resp: 395
Ion Ratio	Lower Upper
42	100
72	16.2 36.2 54.4#
71	48.1 34.0 51.0



#31

Cyclohexane

Concen: 0.883 ug/l

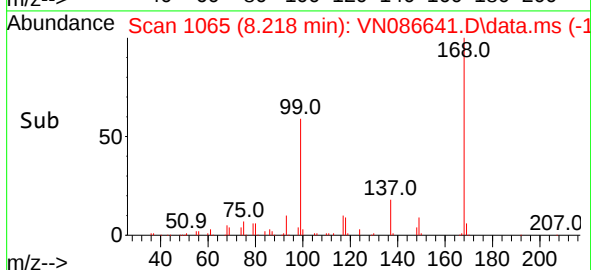
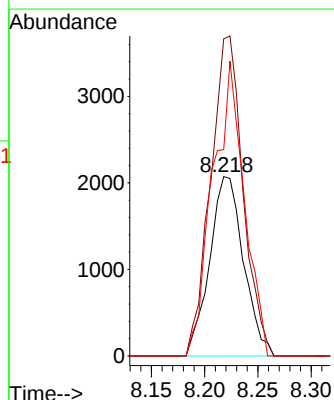
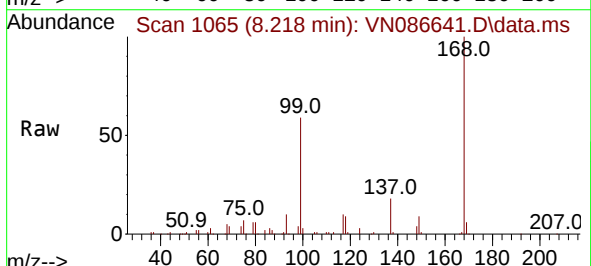
RT: 8.218 min Scan# 1065

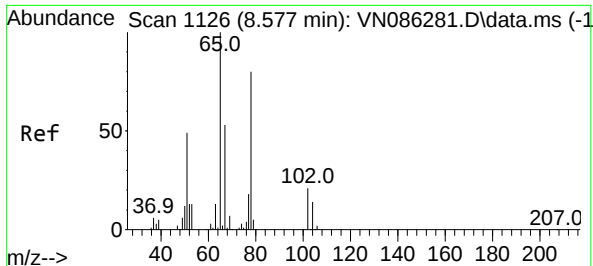
Delta R.T. -0.035 min

Lab File: VN086641.D

Acq: 15 May 2025 13:35

Tgt Ion: 56	Resp: 4579
Ion Ratio	Lower Upper
56	100
69	176.7 24.2 36.2#
84	115.0 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 46.558 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086641.D

Acq: 15 May 2025 13:35

Instrument :

MSVOA_N

ClientSampleId :

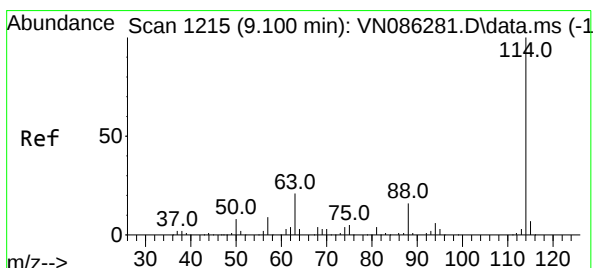
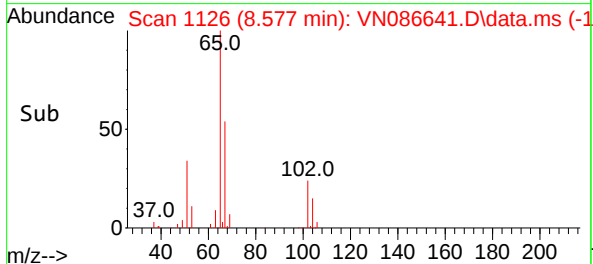
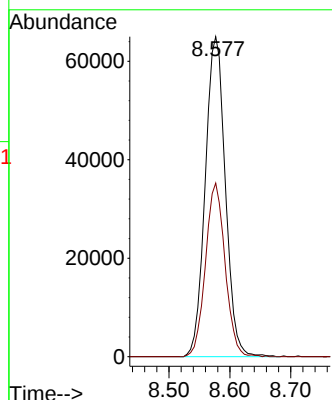
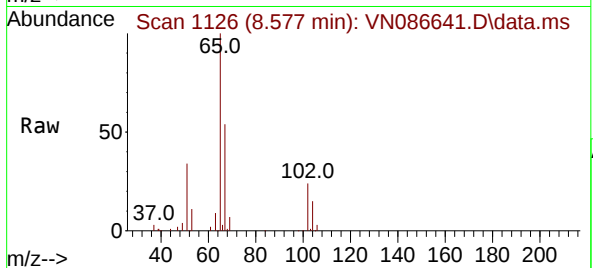
PB167995ZHE#03

Tgt Ion: 65 Resp: 148974

Ion Ratio Lower Upper

65 100

67 52.9 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: VN086641.D

Acq: 15 May 2025 13:35

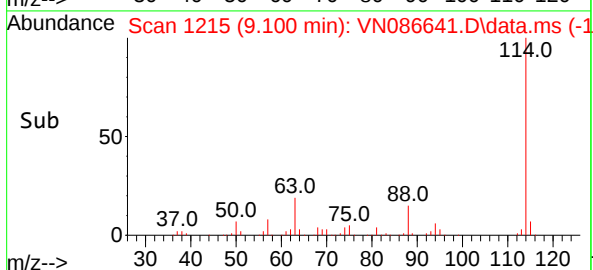
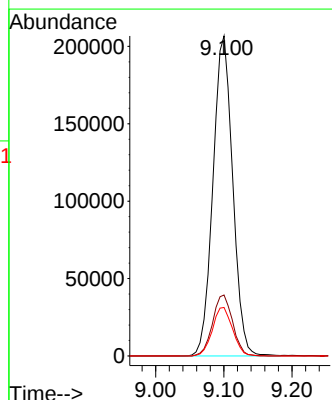
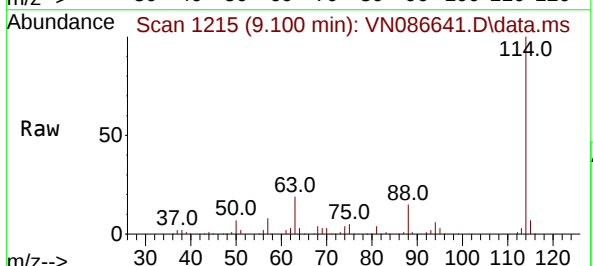
Tgt Ion: 114 Resp: 417010

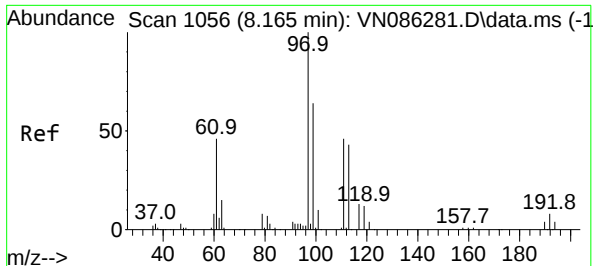
Ion Ratio Lower Upper

114 100

63 19.1 0.0 42.6

88 15.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 62.918 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086641.D

Acq: 15 May 2025 13:35

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#03

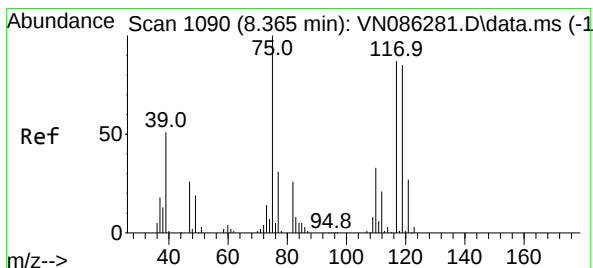
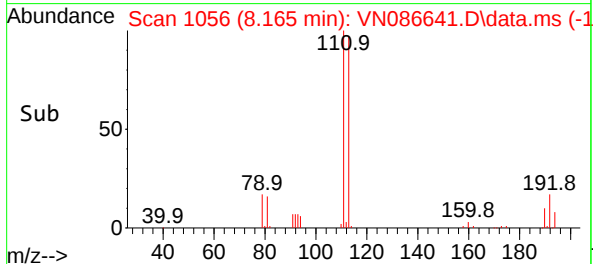
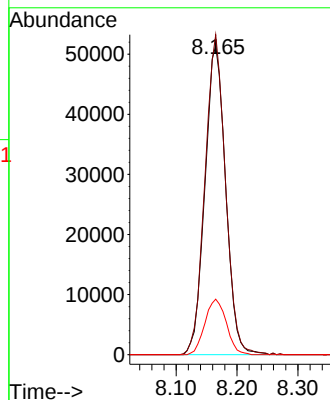
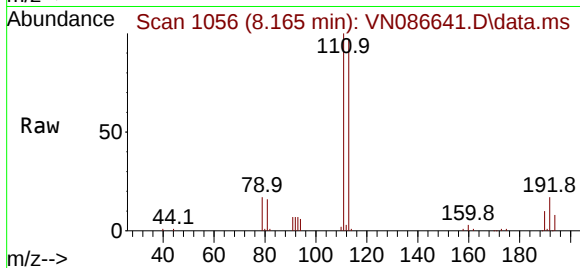
Tgt Ion:113 Resp: 121771

Ion Ratio Lower Upper

113 100

111 102.1 83.4 125.0

192 18.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.507 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086641.D

Acq: 15 May 2025 13:35

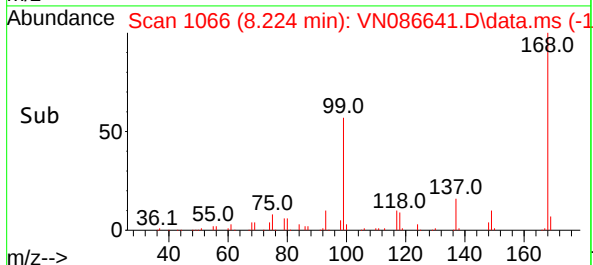
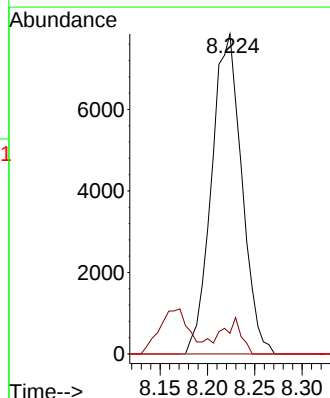
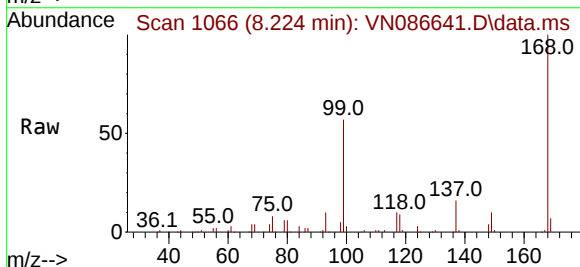
Tgt Ion: 75 Resp: 17422

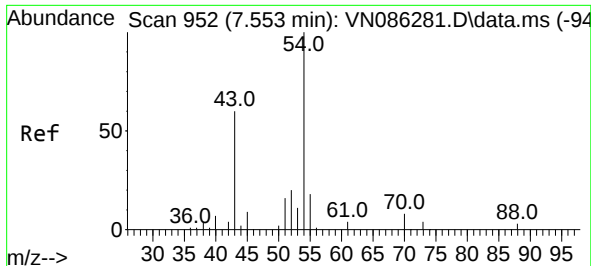
Ion Ratio Lower Upper

75 100

110 7.9 16.8 50.4#

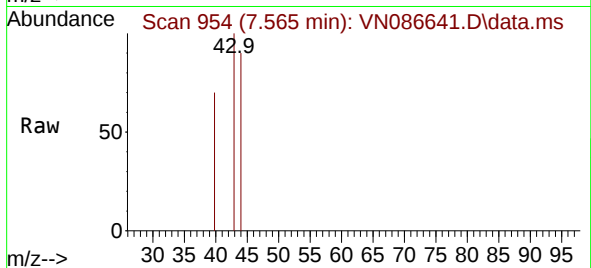
77 0.0 24.9 37.3#



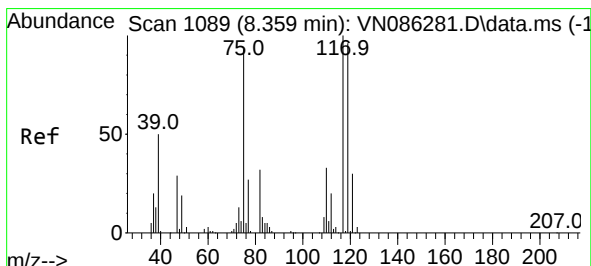
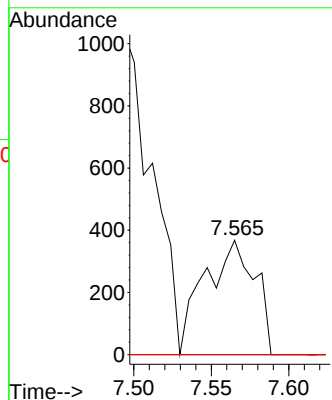
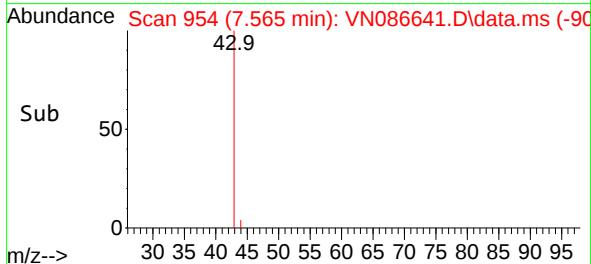


#37
Ethyl Acetate
Concen: 0.205 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

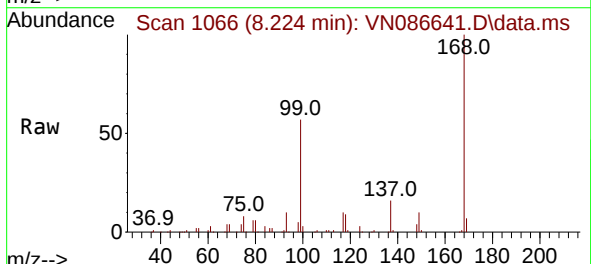
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#03



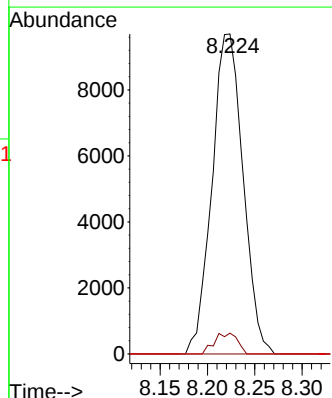
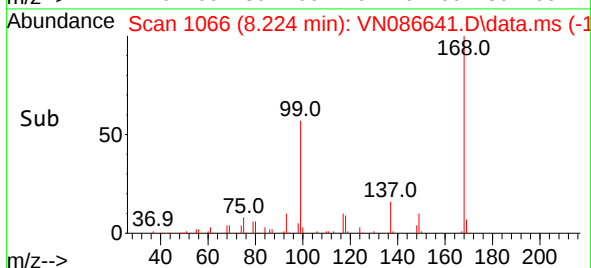
Tgt Ion: 43 Resp: 833
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 9.2 13.8#

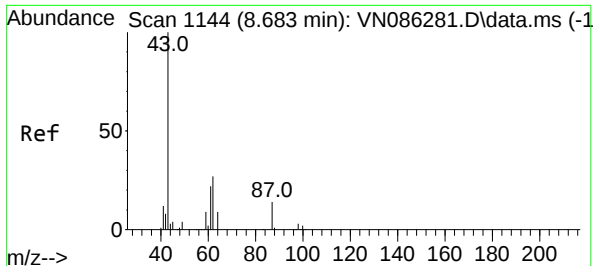


#38
Carbon Tetrachloride
Concen: 6.011 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35



Tgt Ion: 117 Resp: 22128
Ion Ratio Lower Upper
117 100
119 6.5 76.8 115.2#
121 0.0 23.8 35.8#

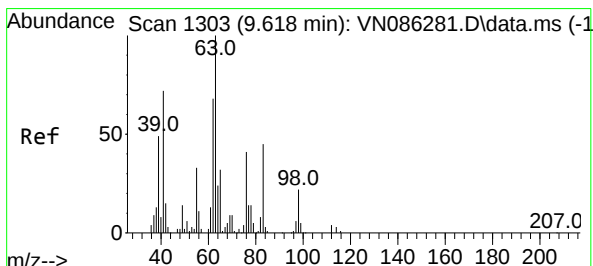
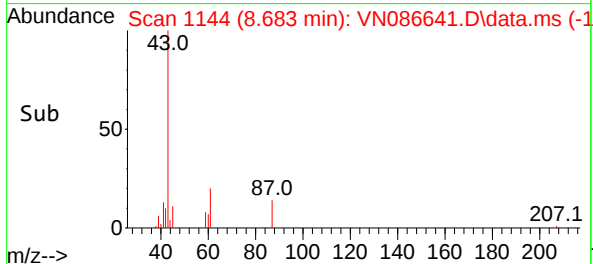
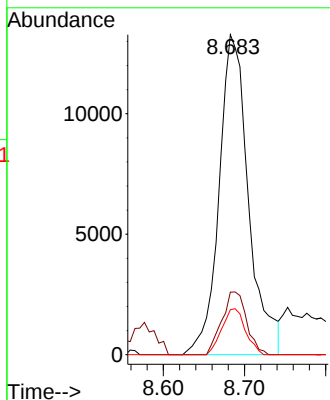
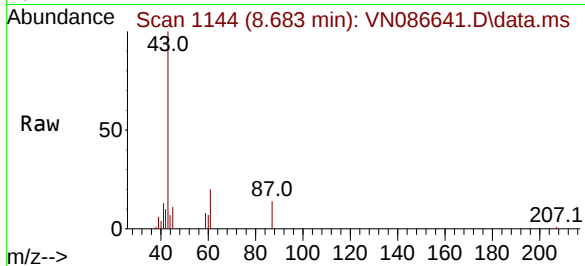




#43
Isopropyl Acetate
Concen: 2.792 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

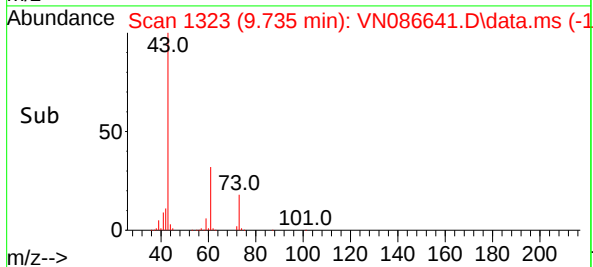
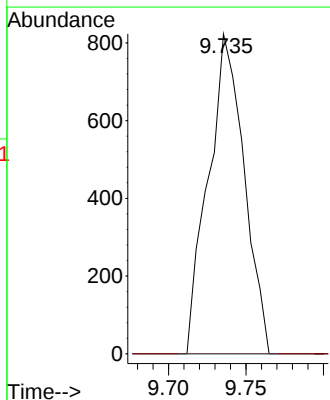
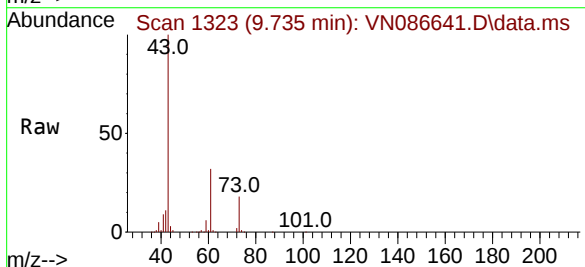
Instrument : MSVOA_N
ClientSampleId : PB167995ZHE#03

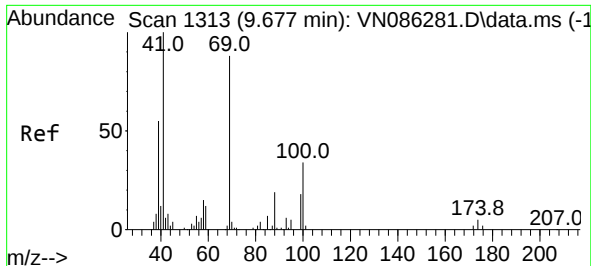
Tgt Ion: 43 Resp: 33623
Ion Ratio Lower Upper
43 100
61 16.4 20.5 30.7#
87 11.5 10.5 15.7



#45
1,2-Dichloropropane
Concen: 0.436 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

Tgt Ion: 63 Resp: 1323
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#





#48

Methyl methacrylate

Concen: 23.711 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.065 min

Lab File: VN086641.D

Acq: 15 May 2025 13:35

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#03

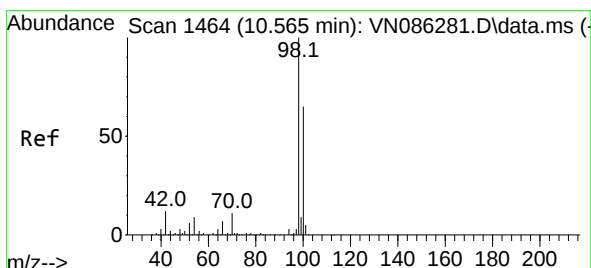
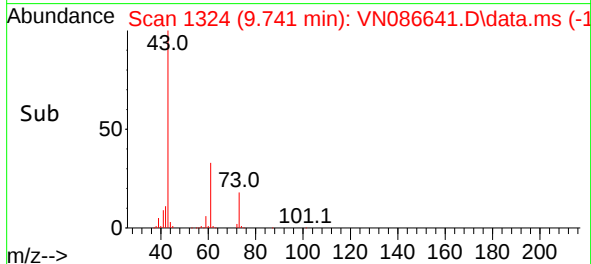
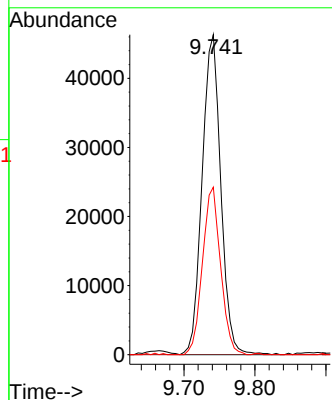
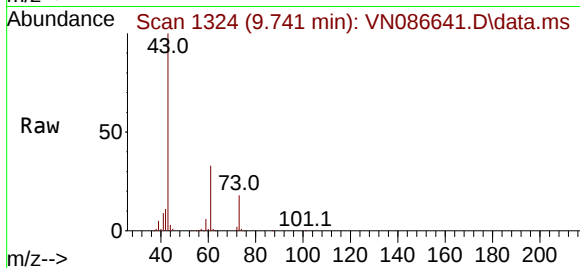
Tgt Ion: 41 Resp: 84742

Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 50.8 45.2 67.8



#50

Toluene-d8

Concen: 51.648 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086641.D

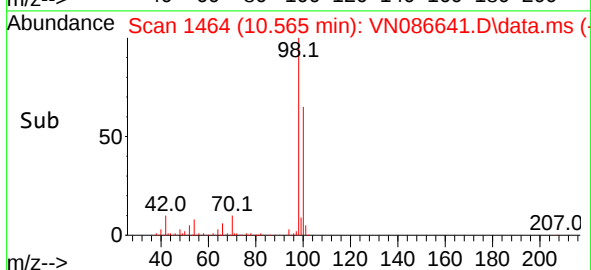
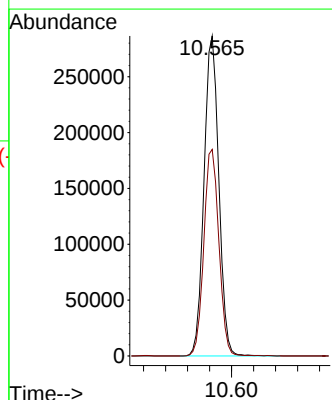
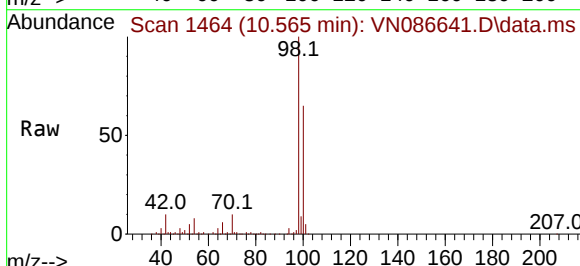
Acq: 15 May 2025 13:35

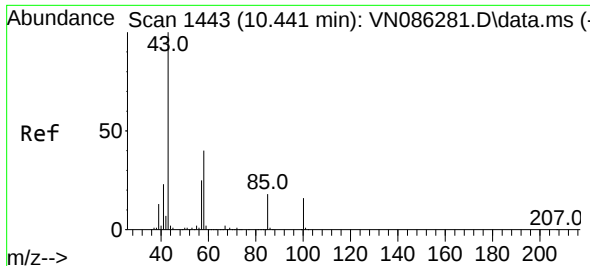
Tgt Ion: 98 Resp: 534230

Ion Ratio Lower Upper

98 100

100 65.8 52.5 78.7

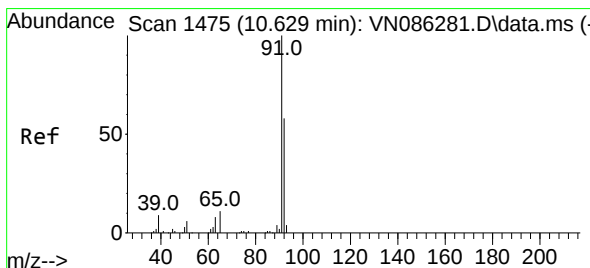
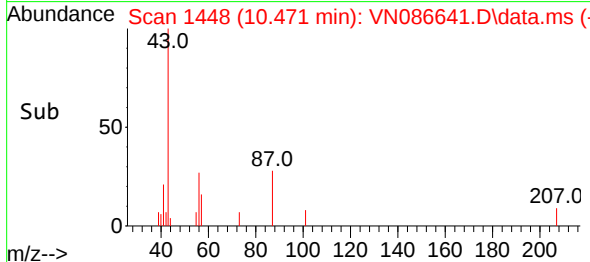
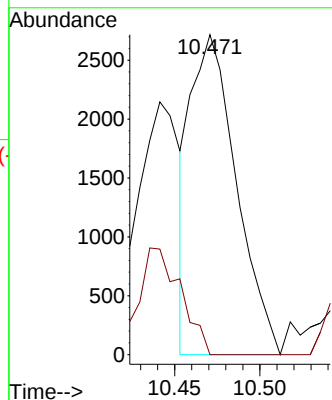
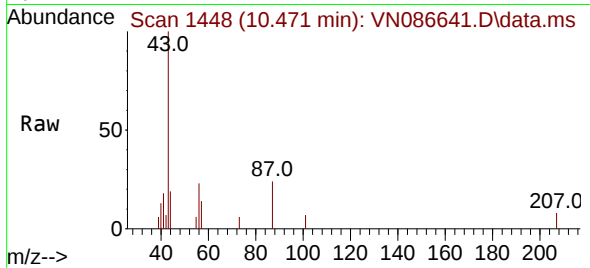




#51
4-Methyl-2-Pentanone
Concen: 1.222 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

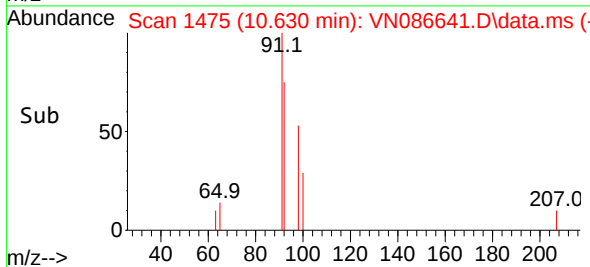
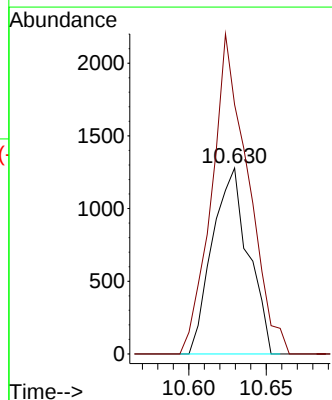
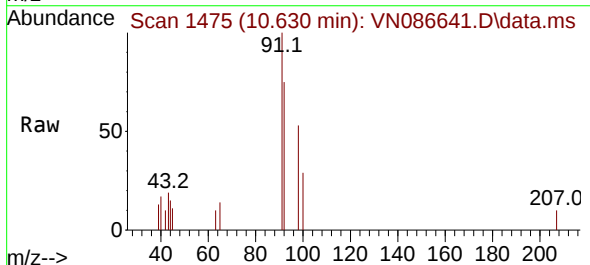
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#03

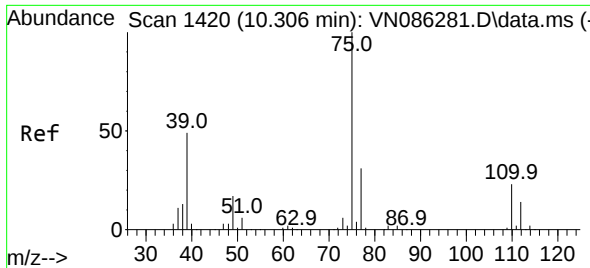
Tgt Ion: 43 Resp: 5094
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#



#52
Toluene
Concen: 0.268 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

Tgt Ion: 92 Resp: 2069
Ion Ratio Lower Upper
92 100
91 173.4 137.3 205.9

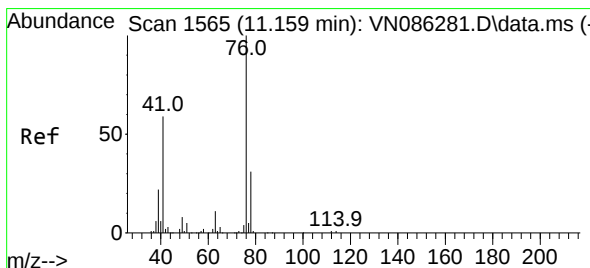
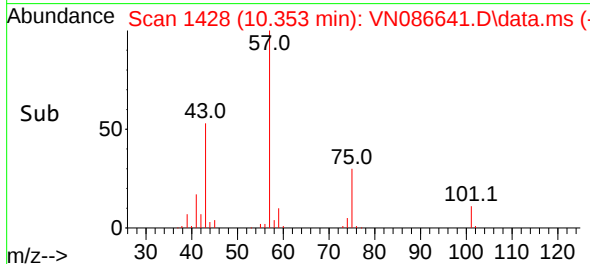
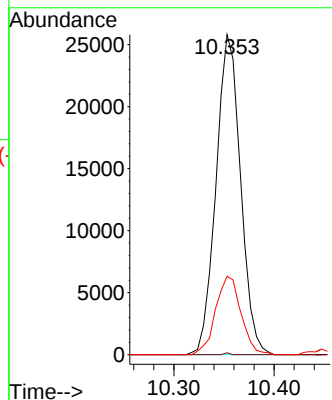
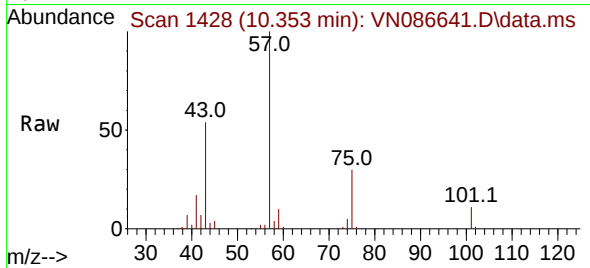




#54
 cis-1,3-Dichloropropene
 Concen: 8.565 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086641.D
 Acq: 15 May 2025 13:35

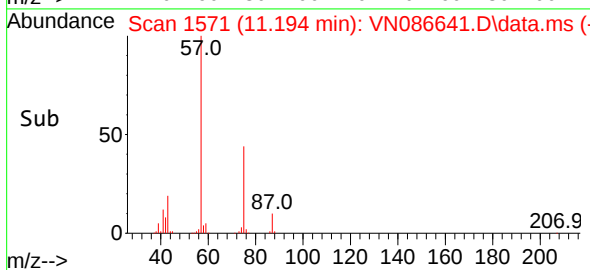
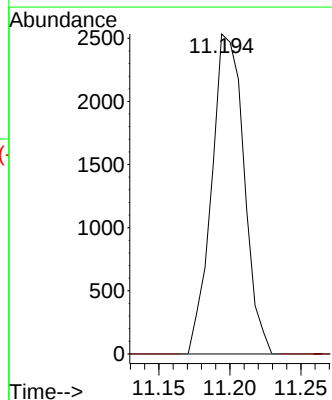
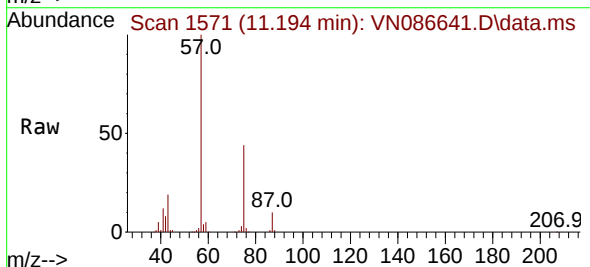
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#03

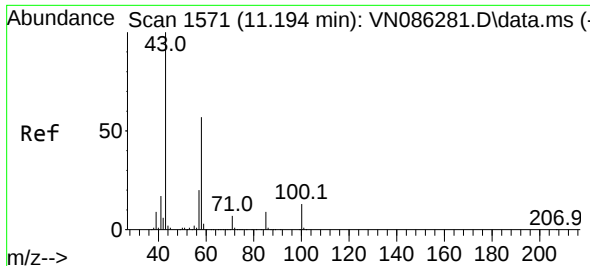
Tgt Ion: 75 Resp: 43810
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 24.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.814 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086641.D
 Acq: 15 May 2025 13:35

Tgt Ion: 76 Resp: 4017
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

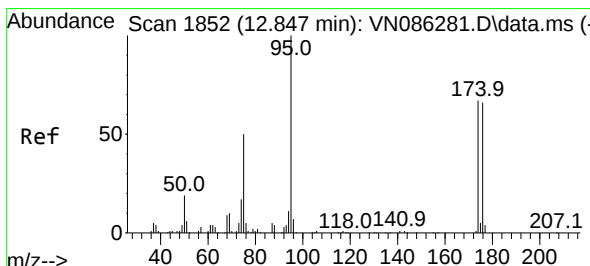
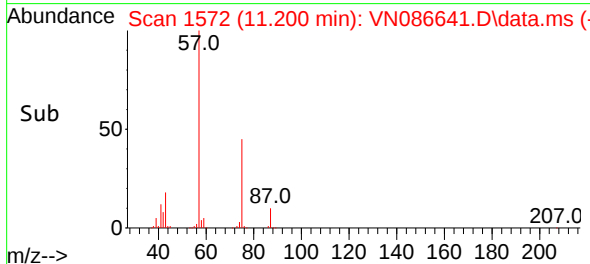
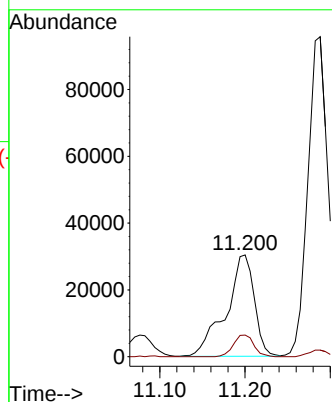
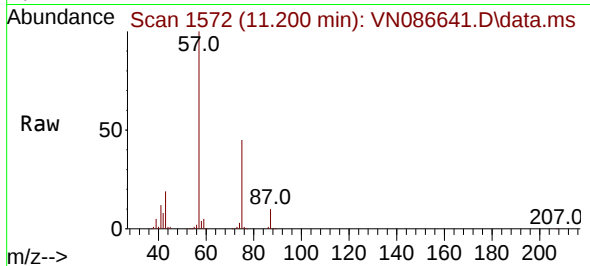




#59
2-Hexanone
Concen: 22.599 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

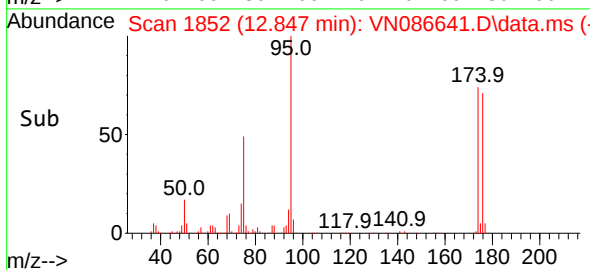
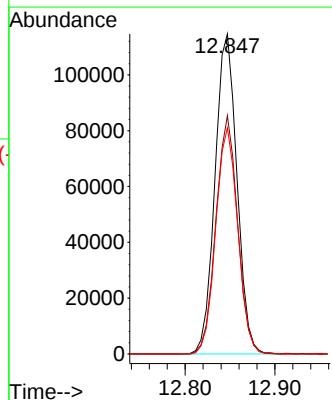
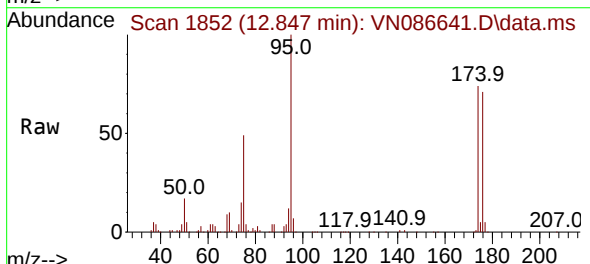
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#03

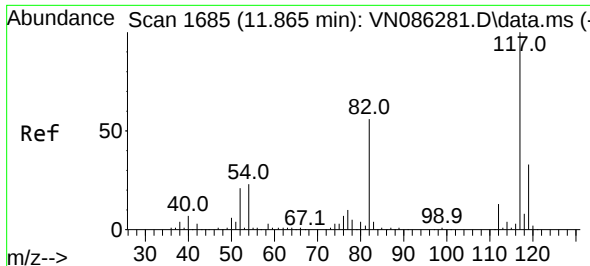
Tgt Ion: 43 Resp: 69857
Ion Ratio Lower Upper
43 100
58 15.4 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 51.551 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

Tgt Ion: 95 Resp: 194491
Ion Ratio Lower Upper
95 100
174 73.5 0.0 133.4
176 70.8 0.0 129.2

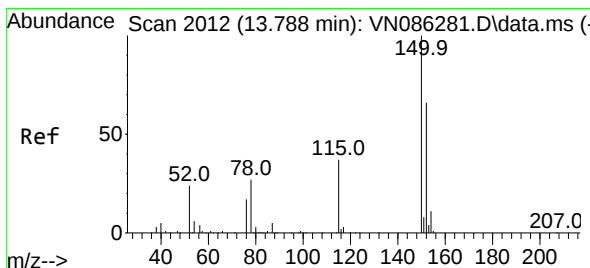
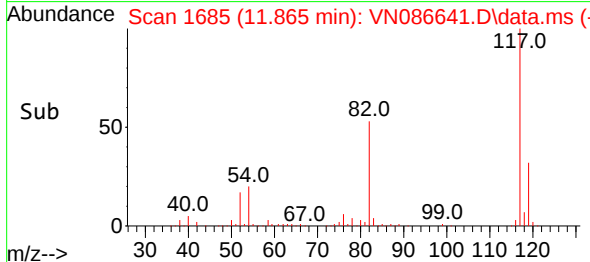
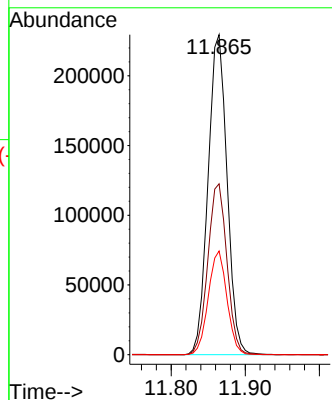
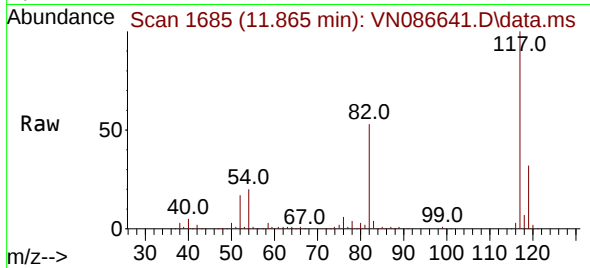




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

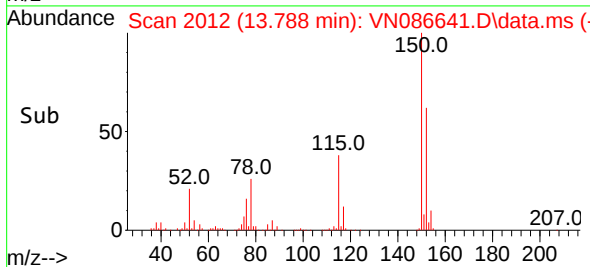
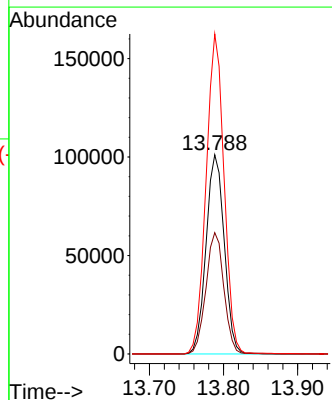
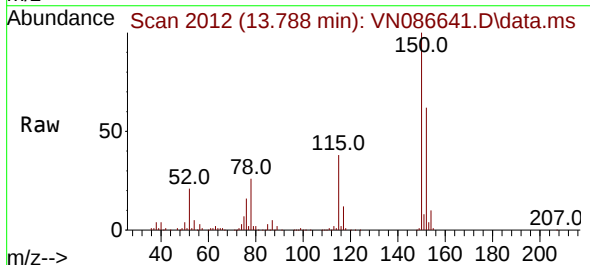
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#03

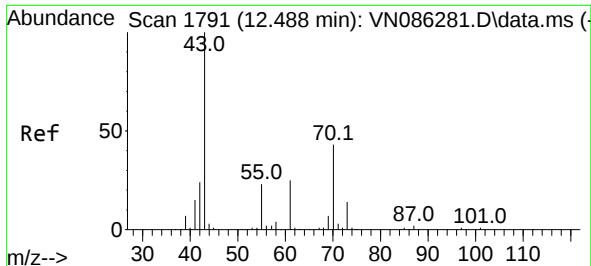
Tgt Ion:117 Resp: 408457
Ion Ratio Lower Upper
117 100
82 53.4 44.7 67.1
119 32.4 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

Tgt Ion:152 Resp: 172452
Ion Ratio Lower Upper
152 100
115 60.1 31.9 95.9
150 158.2 0.0 352.0

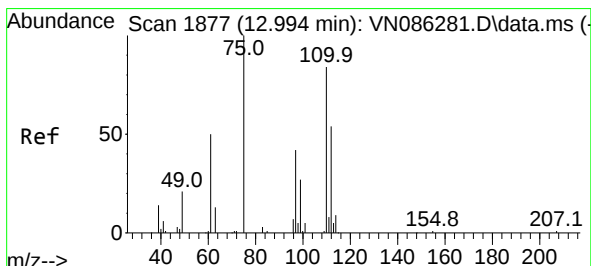
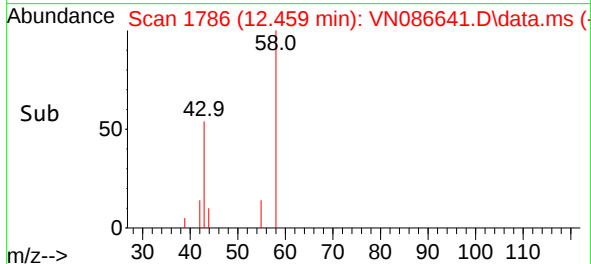
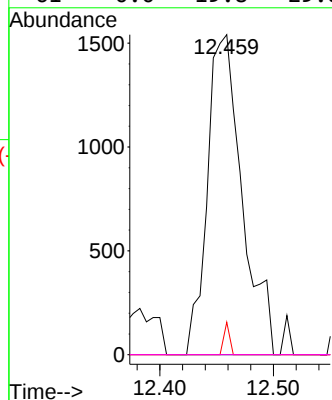
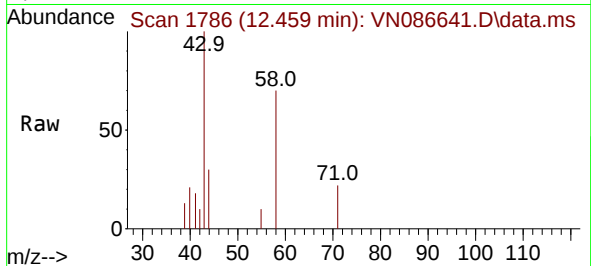




#74
N-amy1 acetate
Concen: 0.466 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

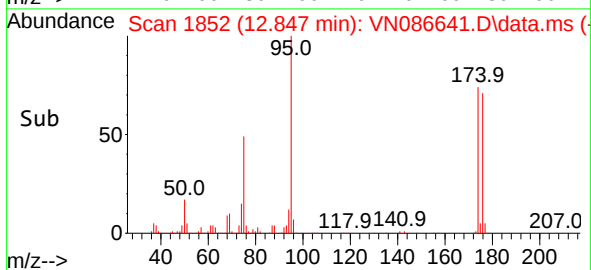
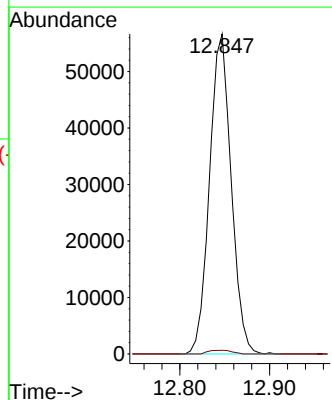
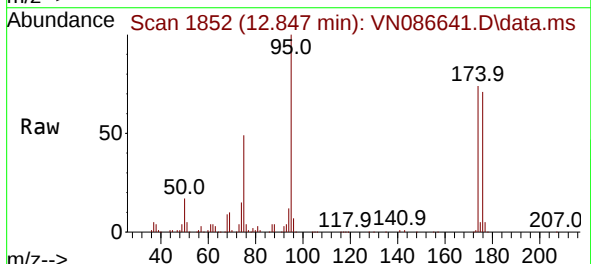
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#03

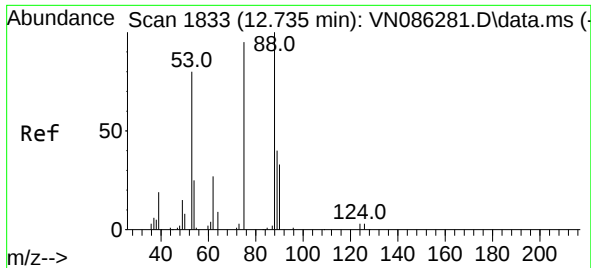
Tgt Ion: 43	Resp: 3275
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 1.7	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 23.319 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086641.D
Acq: 15 May 2025 13:35

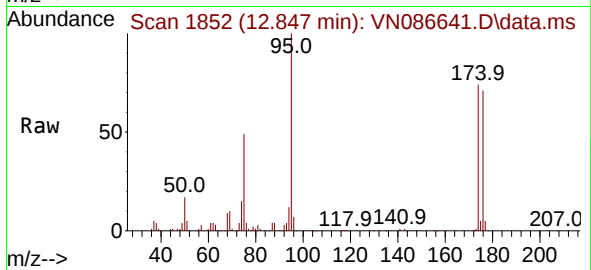
Tgt Ion: 75	Resp:	94901	
Ion Ratio	Lower	Upper	
75 100			
77 1.3	98.8	296.4#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.005 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086641.D
 Acq: 15 May 2025 13:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#03



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

