

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086642.D
 Acq On : 15 May 2025 13:59
 Operator : JC\MD
 Sample : PB167995ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#04

Quant Time: May 16 05:26:58 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)

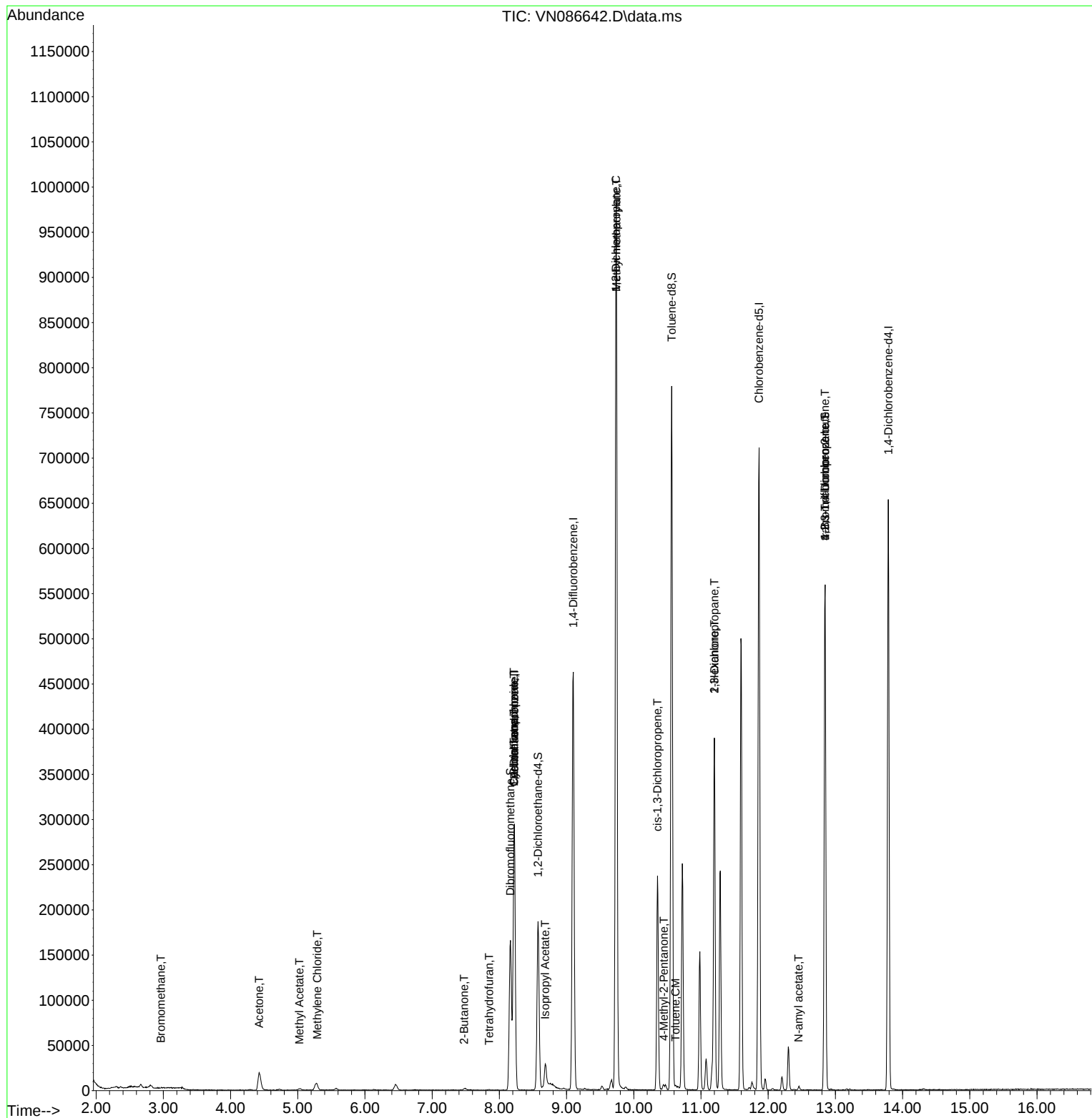
Internal Standards						
1) Pentafluorobenzene	8.224	168	227425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	429084	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	430918	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	183366	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	155682	47.207	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.420%
35) Dibromofluoromethane	8.165	113	124923	62.730	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	125.460%#
50) Toluene-d8	10.565	98	555372	52.181	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.360%
62) 4-Bromofluorobenzene	12.847	95	210312	54.176	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	108.360%
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	340	0.202	ug/l	94
16) Acetone	4.424	43	38300	28.535	ug/l	92
18) Methyl Acetate	5.024	43	3631	0.917	ug/l #	72
20) Methylene Chloride	5.289	84	6946	2.278	ug/l #	77
25) 2-Butanone	7.477	43	3588	1.748	ug/l #	87
29) Tetrahydrofuran	7.847	42	639	0.466	ug/l #	60
31) Cyclohexane	8.218	56	4245	0.794	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17829	4.482	ug/l #	50
38) Carbon Tetrachloride	8.218	117	22651	5.980	ug/l #	17
43) Isopropyl Acetate	8.682	43	39535	3.459	ug/l #	84
45) 1,2-Dichloropropane	9.735	63	1208	0.387	ug/l #	43
48) Methyl methacrylate	9.741	41	87446	23.779	ug/l #	40
51) 4-Methyl-2-Pentanone	10.447	43	4805	1.121	ug/l	88
52) Toluene	10.623	92	1641	0.206	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	45281	8.603	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	4390	0.865	ug/l #	43
59) 2-Hexanone	11.200	43	72994	22.950	ug/l #	43
74) N-amyl acetate	12.453	43	3746	0.502	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	102811	23.759	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	102811	57.061	ug/l #	10

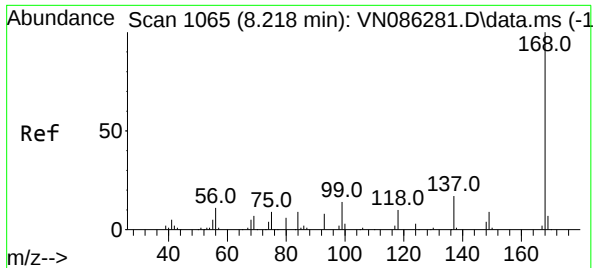
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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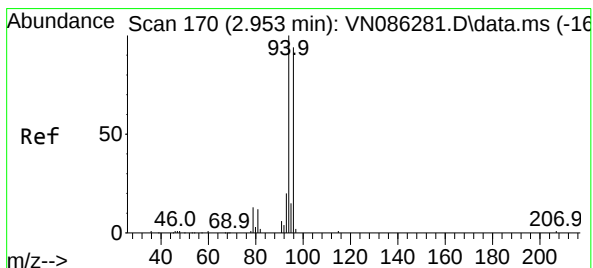
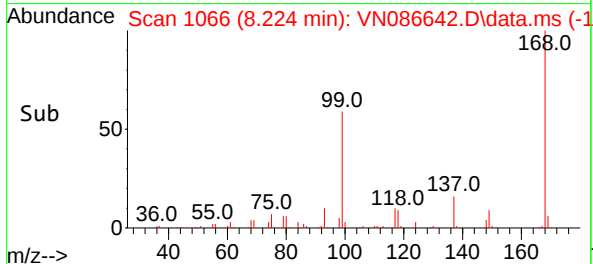
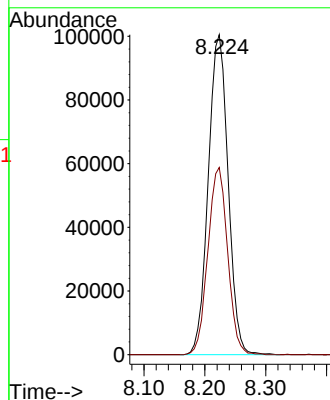
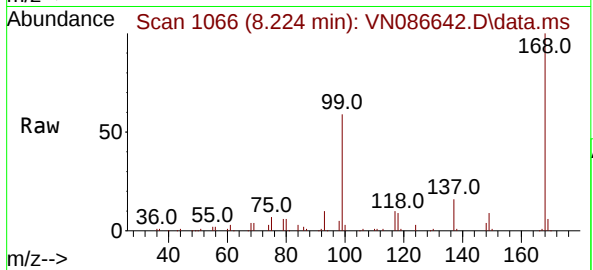




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

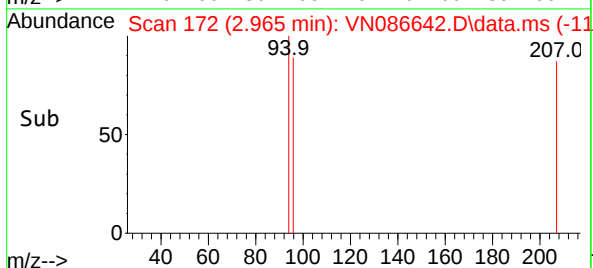
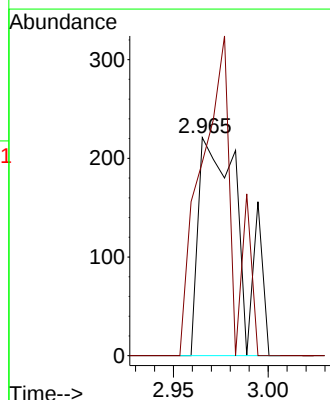
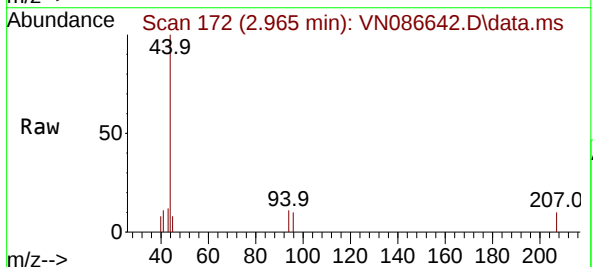
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#04

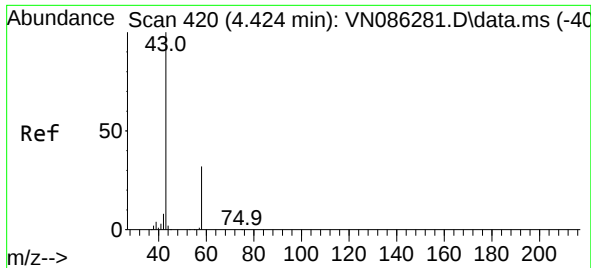
Tgt Ion:168 Resp: 227425
Ion Ratio Lower Upper
168 100
99 58.5 52.5 78.7



#5
Bromomethane
Concen: 0.202 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.012 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Tgt Ion: 94 Resp: 340
Ion Ratio Lower Upper
94 100
96 88.7 75.2 112.8

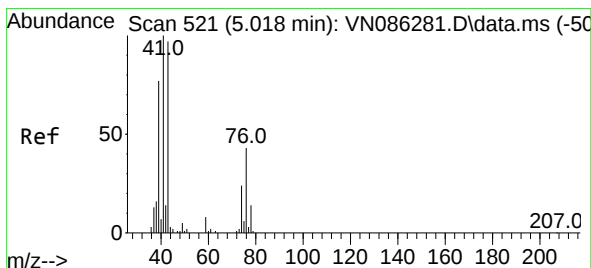
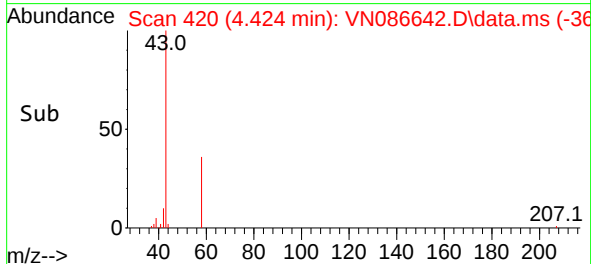
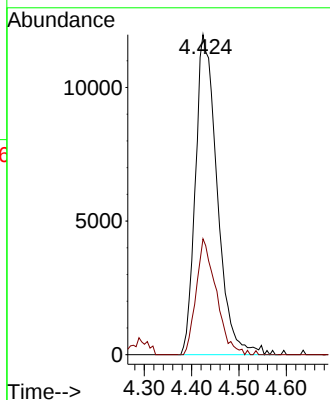
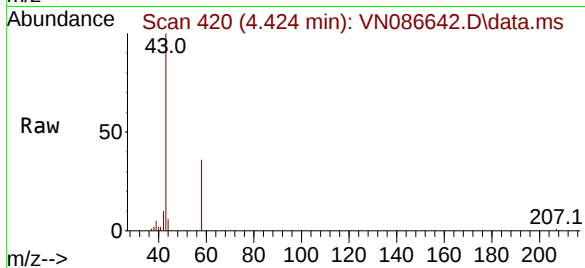




#16
Acetone
Concen: 28.535 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

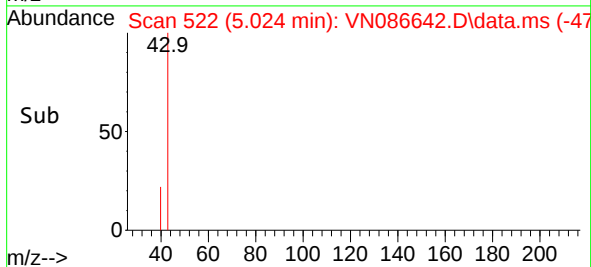
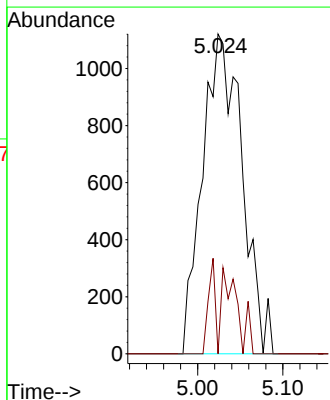
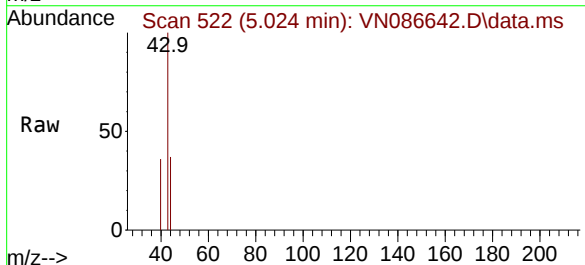
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#04

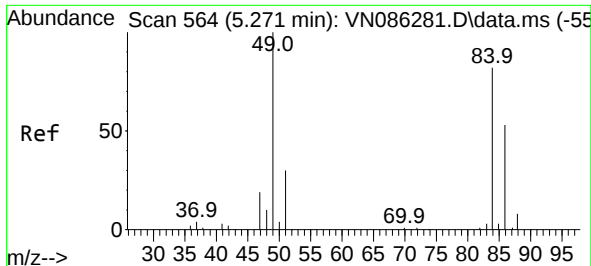
Tgt Ion: 43 Resp: 38300
Ion Ratio Lower Upper
43 100
58 36.2 25.3 37.9



#18
Methyl Acetate
Concen: 0.917 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

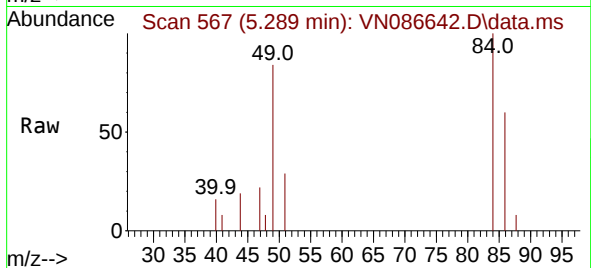
Tgt Ion: 43 Resp: 3631
Ion Ratio Lower Upper
43 100
74 10.8 19.8 29.6#



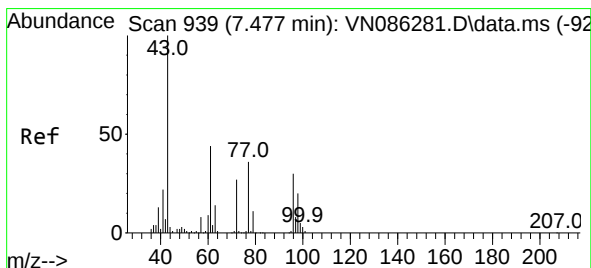
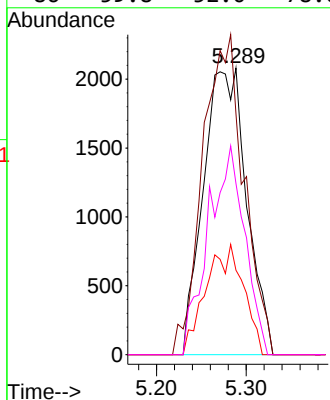
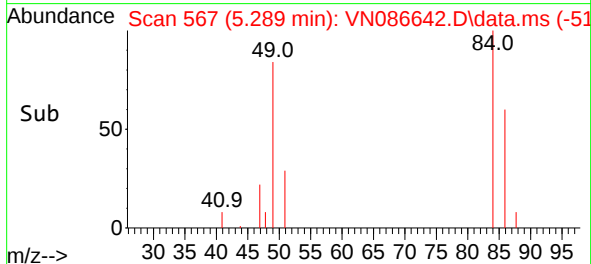


#20
Methylene Chloride
Concen: 2.278 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

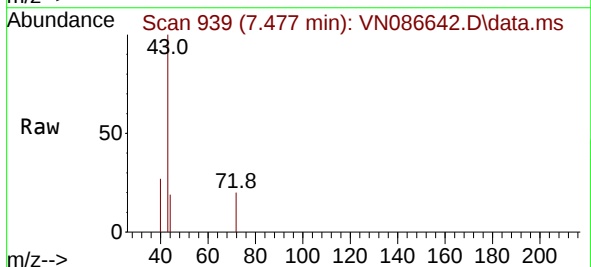
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#04



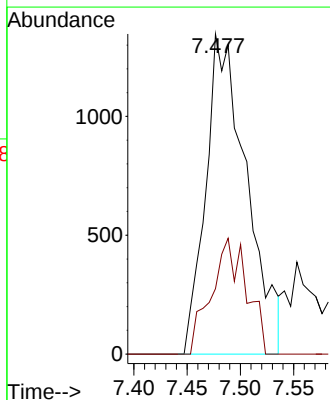
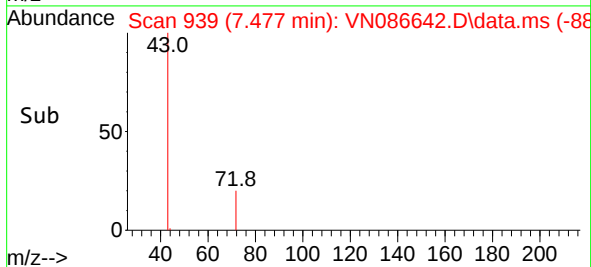
Tgt Ion: 84	Resp: 6946
Ion Ratio	Lower Upper
84 100	
49 84.1	98.2 147.2#
51 29.5	29.8 44.6#
86 59.8	52.0 78.0

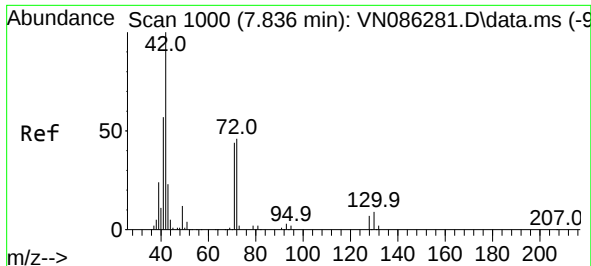


#25
2-Butanone
Concen: 1.748 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59



Tgt Ion: 43	Resp: 3588
Ion Ratio	Lower Upper
43 100	
72 20.4	21.7 32.5#





#29

Tetrahydrofuran

Concen: 0.466 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086642.D

Acq: 15 May 2025 13:59

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#04

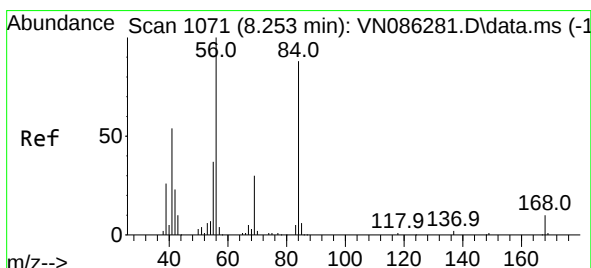
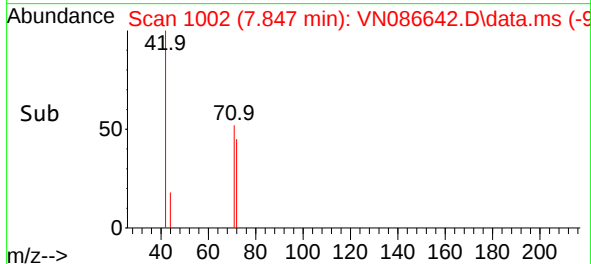
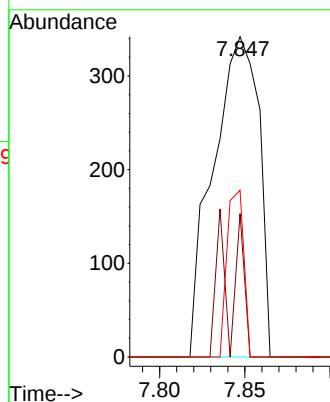
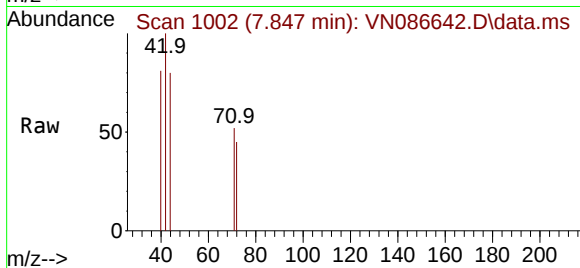
Tgt Ion: 42 Resp: 639

Ion Ratio Lower Upper

42 100

72 17.2 36.2 54.4#

71 19.1 34.0 51.0#



#31

Cyclohexane

Concen: 0.794 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086642.D

Acq: 15 May 2025 13:59

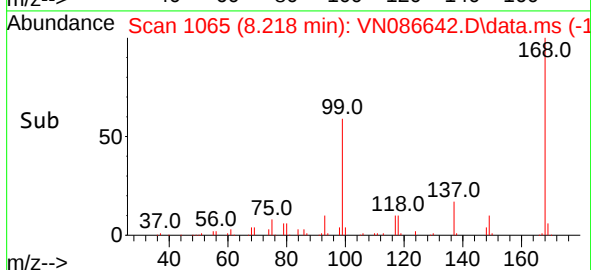
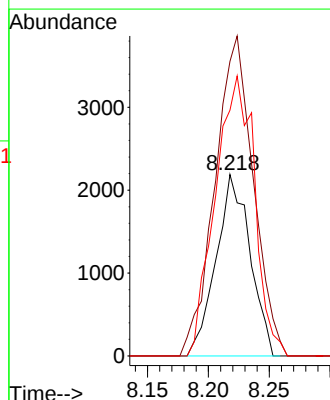
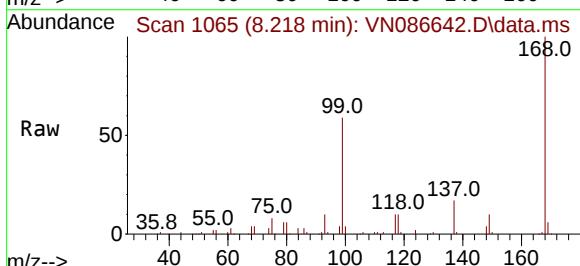
Tgt Ion: 56 Resp: 4245

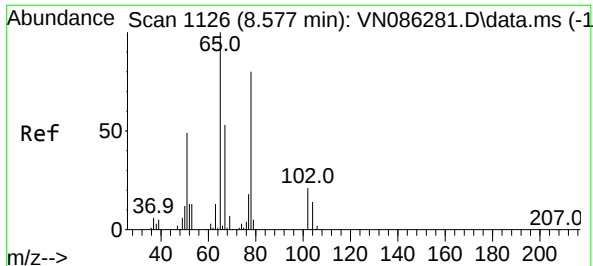
Ion Ratio Lower Upper

56 100

69 162.4 24.2 36.2#

84 135.5 70.3 105.5#

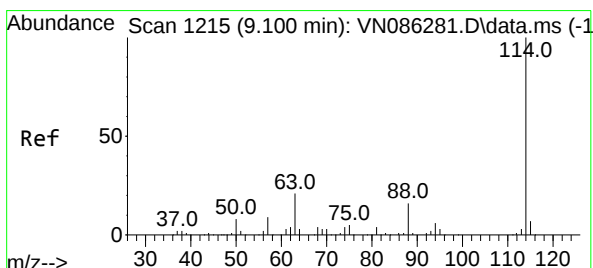
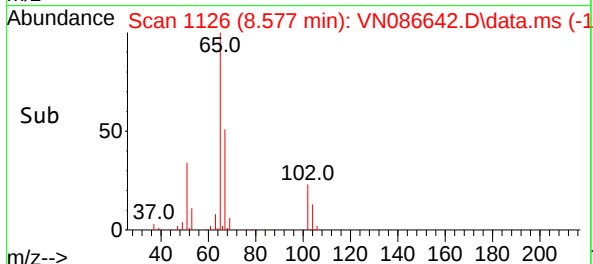
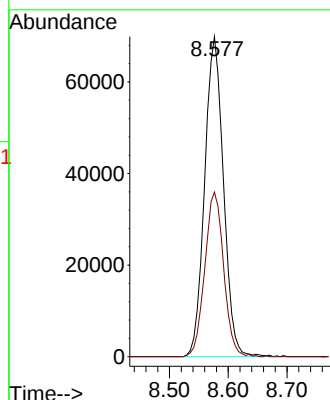
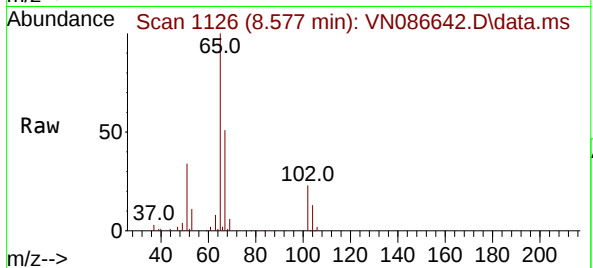




#33
1,2-Dichloroethane-d4
Concen: 47.207 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

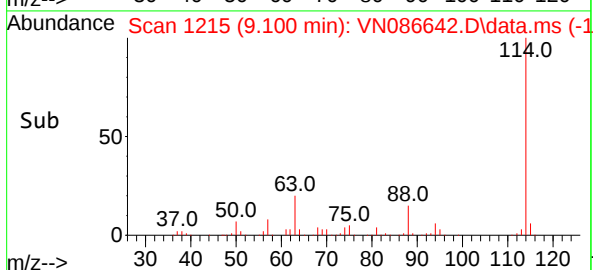
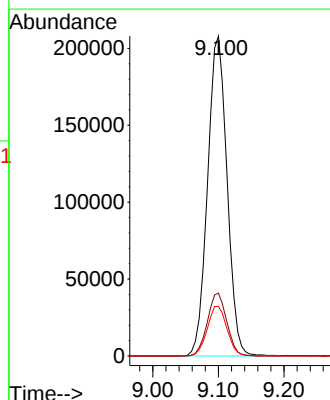
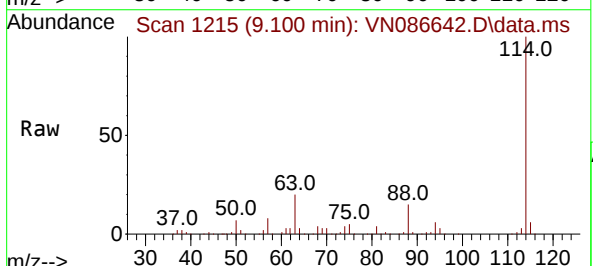
Instrument :
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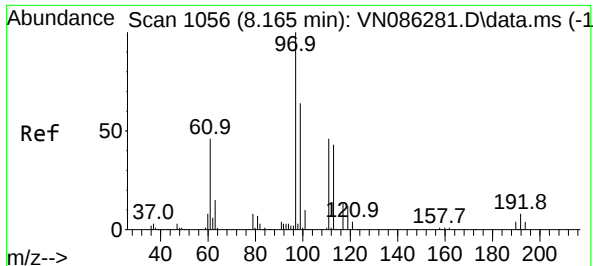
Tgt Ion: 65 Resp: 155682
Ion Ratio Lower Upper
65 100
67 51.5 0.0 106.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Tgt Ion: 114 Resp: 429084
Ion Ratio Lower Upper
114 100
63 19.6 0.0 42.6
88 15.4 0.0 31.8

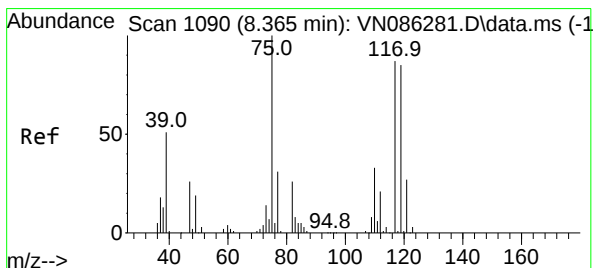
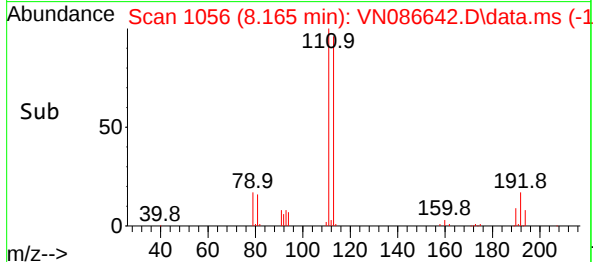
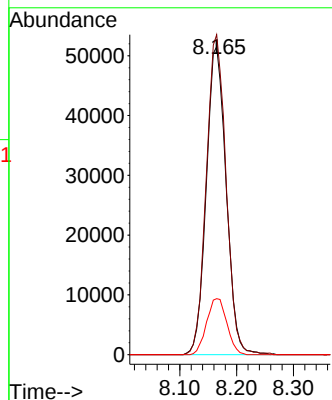
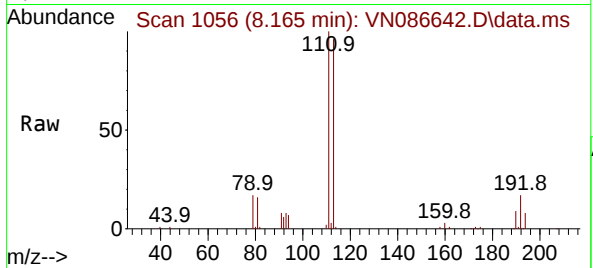




#35
Dibromofluoromethane
Concen: 62.730 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

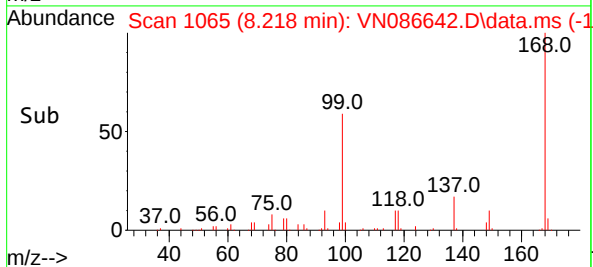
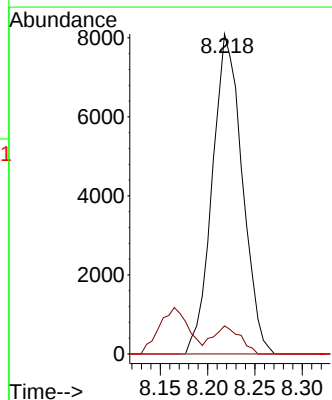
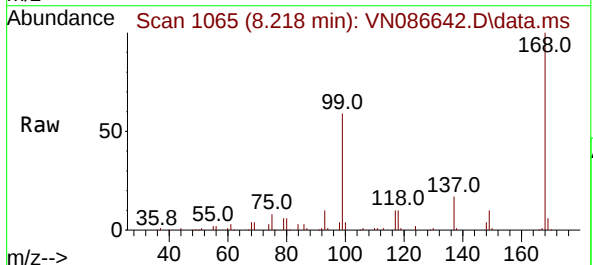
Instrument :
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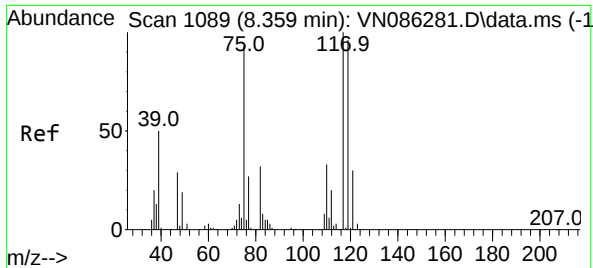
Tgt Ion:113 Resp: 124923
Ion Ratio Lower Upper
113 100
111 103.3 83.4 125.0
192 18.5 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.482 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

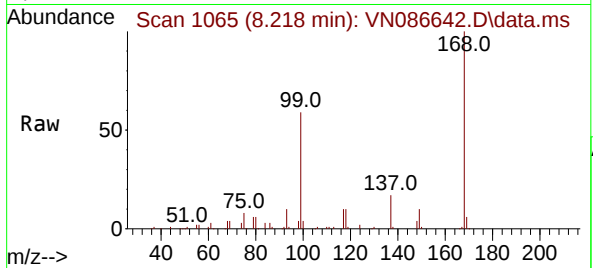
Tgt Ion: 75 Resp: 17829
Ion Ratio Lower Upper
75 100
110 8.0 16.8 50.4#
77 0.0 24.9 37.3#



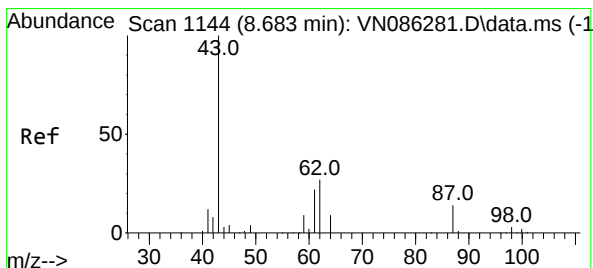
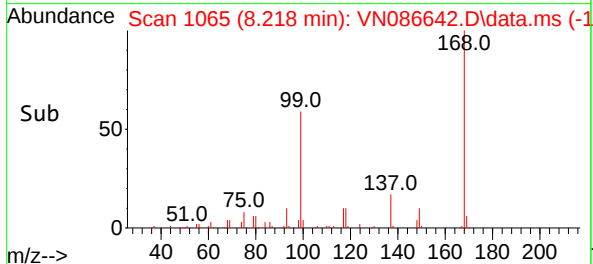
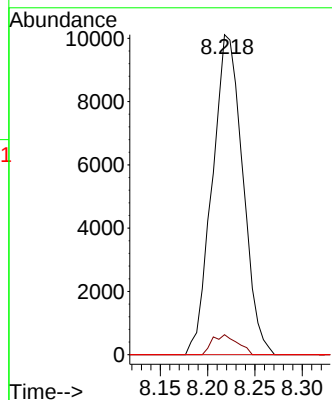


#38
Carbon Tetrachloride
Concen: 5.980 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Instrument :
MSVOA_N
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PB167995ZHE#04

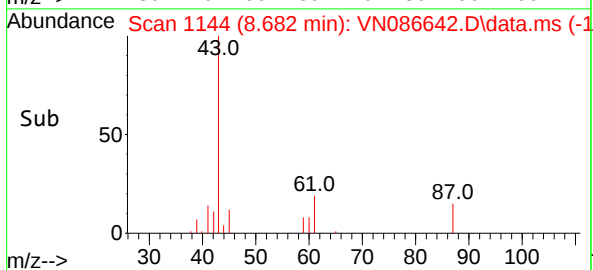
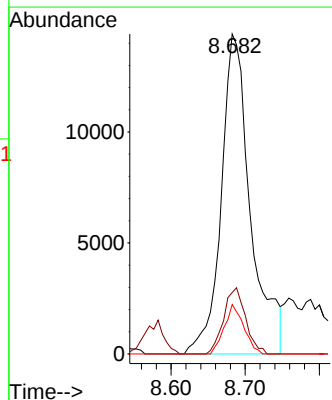
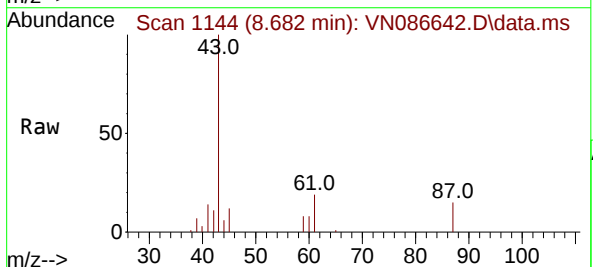


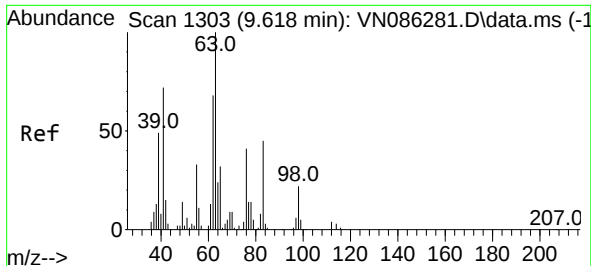
Tgt Ion:117 Resp: 22651
Ion Ratio Lower Upper
117 100
119 6.3 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.459 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Tgt Ion: 43 Resp: 39535
Ion Ratio Lower Upper
43 100
61 15.5 20.5 30.7#
87 10.3 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.387 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086642.D

Acq: 15 May 2025 13:59

Instrument :

MSVOA_N

ClientSampleId :

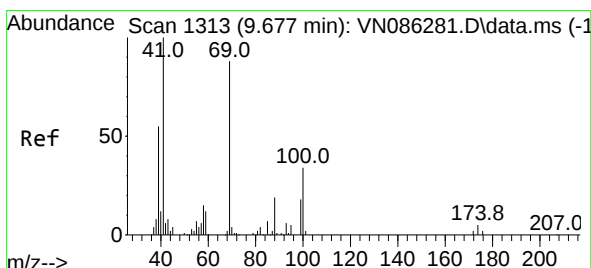
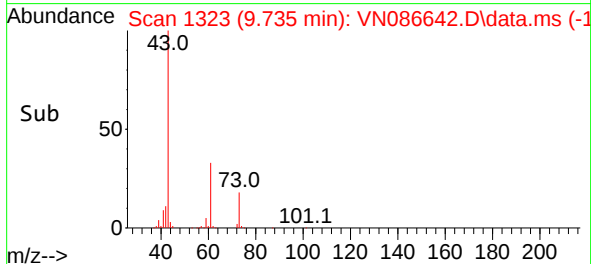
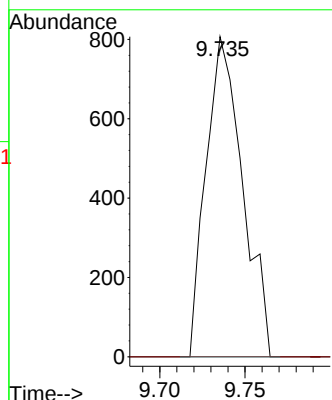
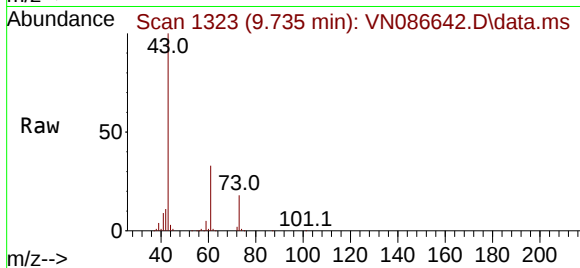
PB167995ZHE#04

Tgt Ion: 63 Resp: 1208

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 23.779 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086642.D

Acq: 15 May 2025 13:59

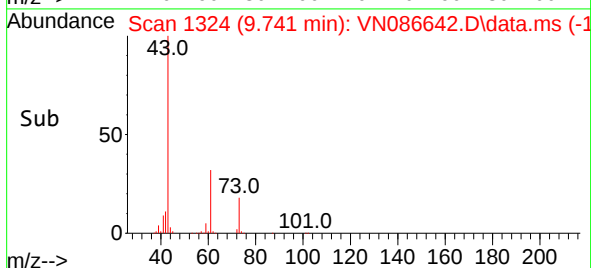
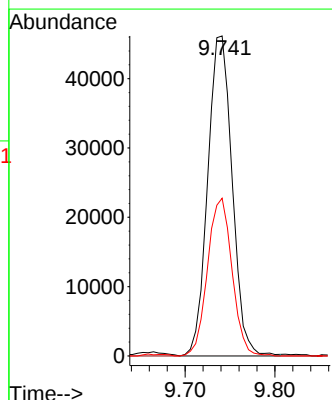
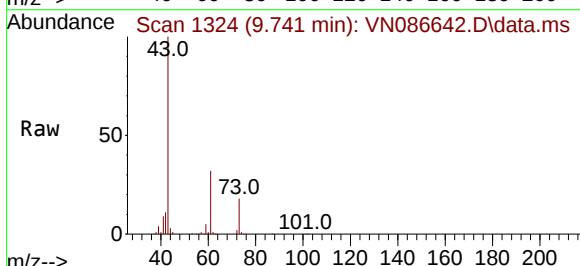
Tgt Ion: 41 Resp: 87446

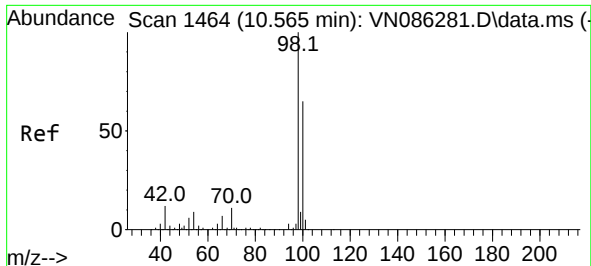
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 49.3 45.2 67.8

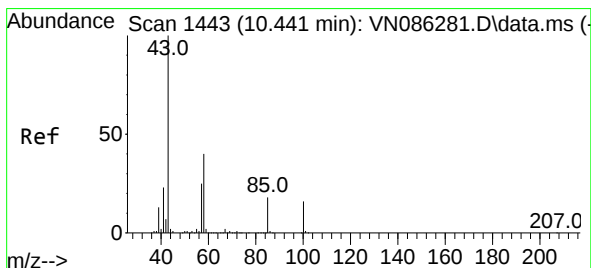
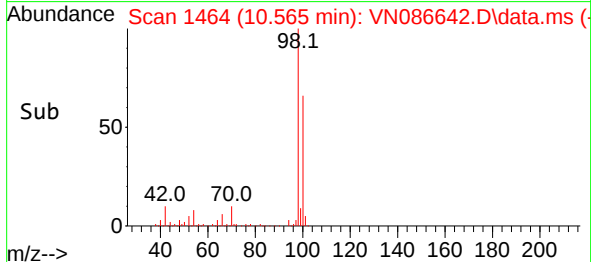
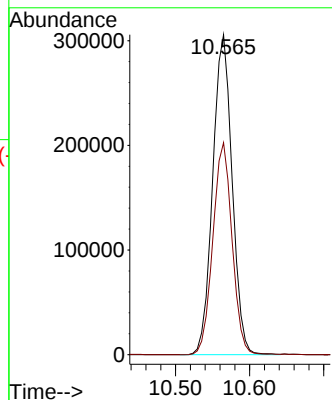
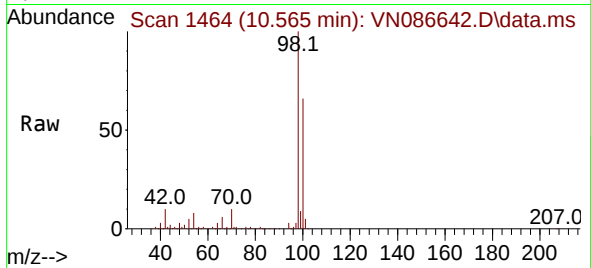




#50
Toluene-d8
Concen: 52.181 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

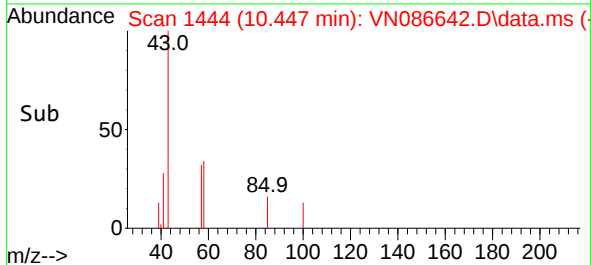
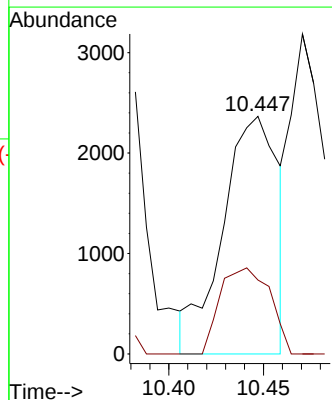
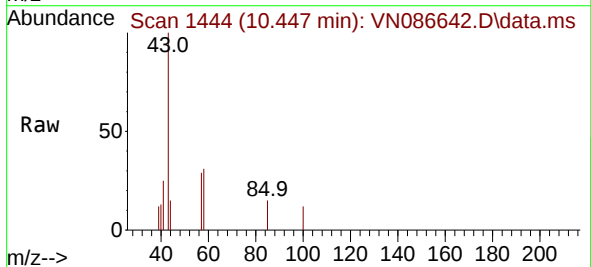
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#04

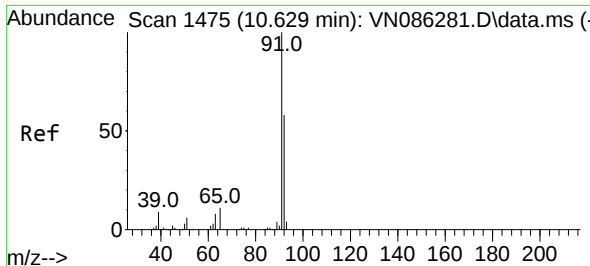
Tgt Ion: 98 Resp: 555372
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.121 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Tgt Ion: 43 Resp: 4805
Ion Ratio Lower Upper
43 100
58 32.8 32.2 48.4

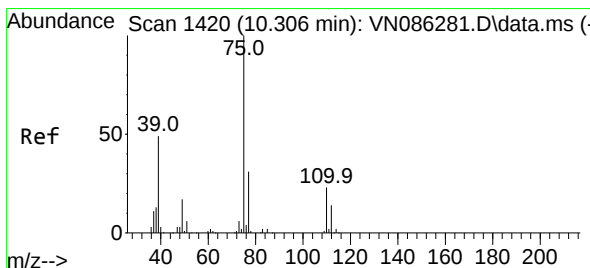
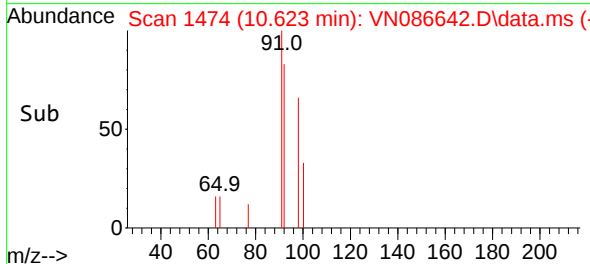
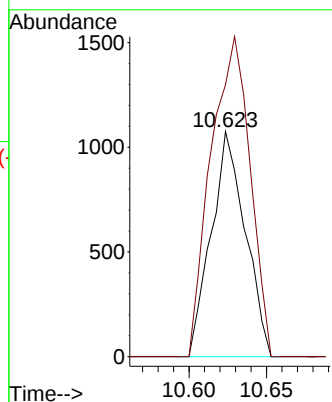
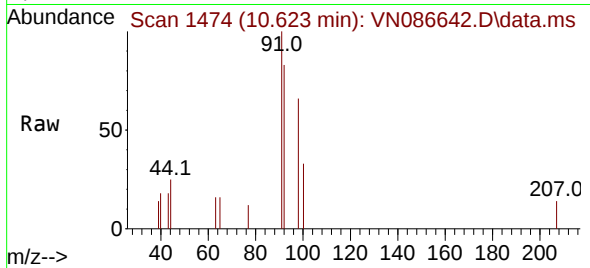




#52
Toluene
Concen: 0.206 ug/l
RT: 10.623 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

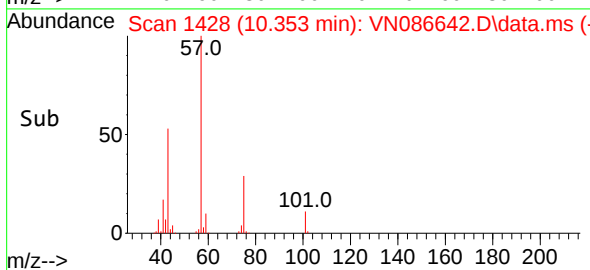
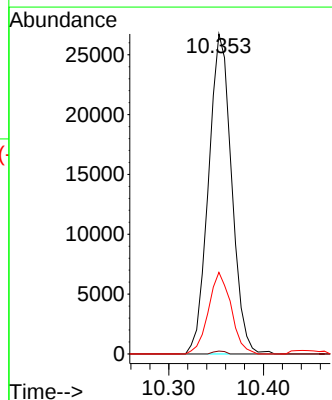
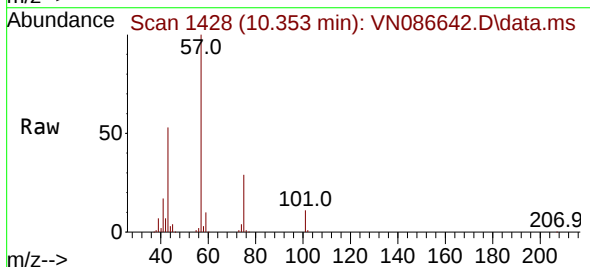
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#04

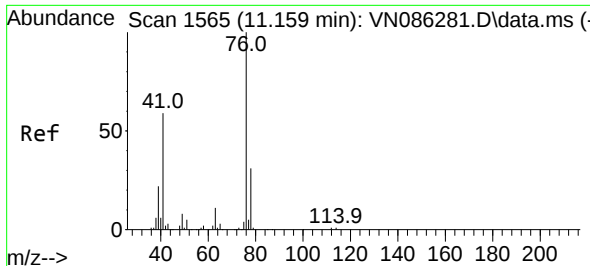
Tgt Ion: 92 Resp: 1641
Ion Ratio Lower Upper
92 100
91 163.4 137.3 205.9



#54
cis-1,3-Dichloropropene
Concen: 8.603 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Tgt Ion: 75 Resp: 45281
Ion Ratio Lower Upper
75 100
77 0.9 25.2 37.8#
39 25.5 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.865 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086642.D

Acq: 15 May 2025 13:59

Instrument :

MSVOA_N

ClientSampleId :

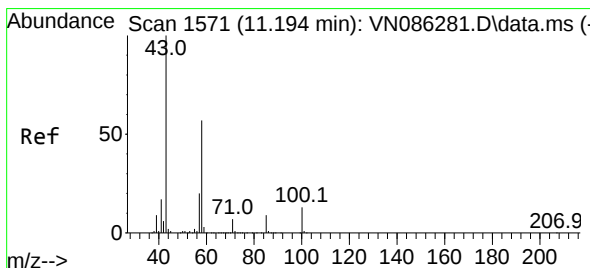
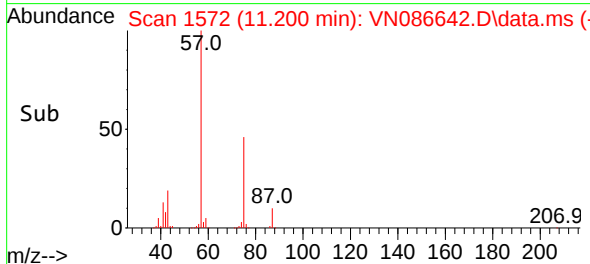
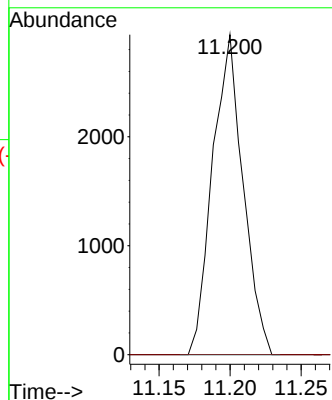
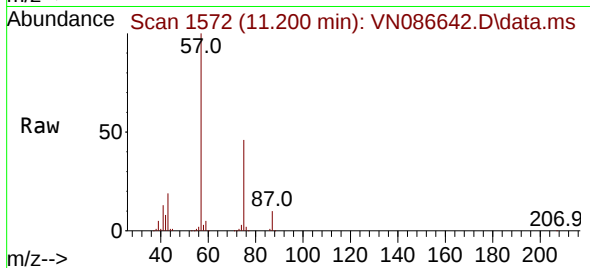
PB167995ZHE#04

Tgt Ion: 76 Resp: 4390

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.950 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086642.D

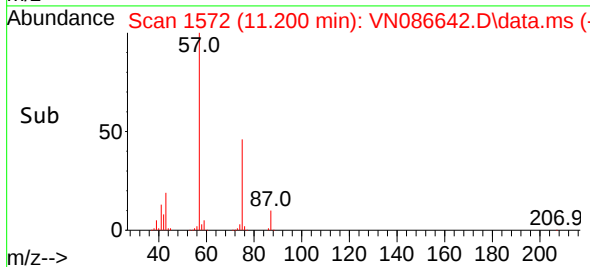
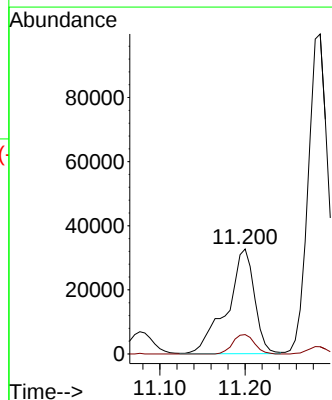
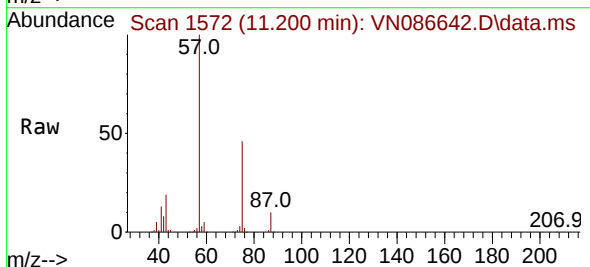
Acq: 15 May 2025 13:59

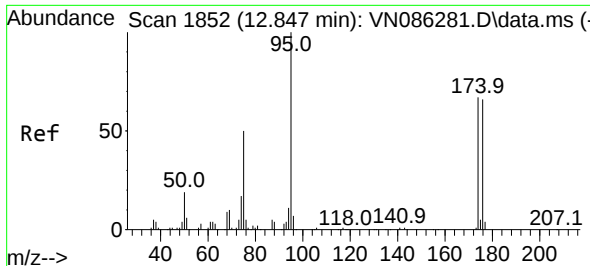
Tgt Ion: 43 Resp: 72994

Ion Ratio Lower Upper

43 100

58 14.7 28.3 85.0#

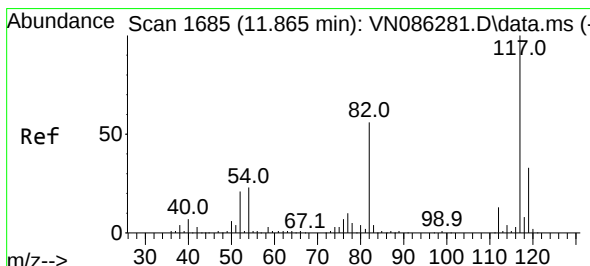
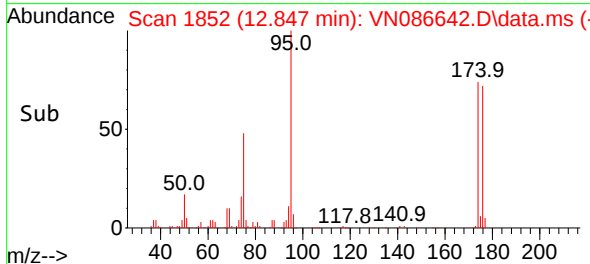
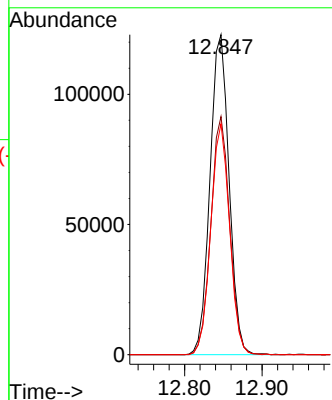
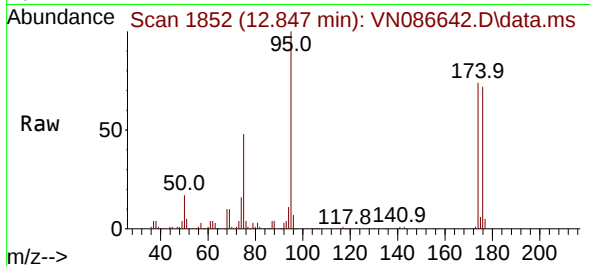




#62
4-Bromofluorobenzene
Concen: 54.176 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

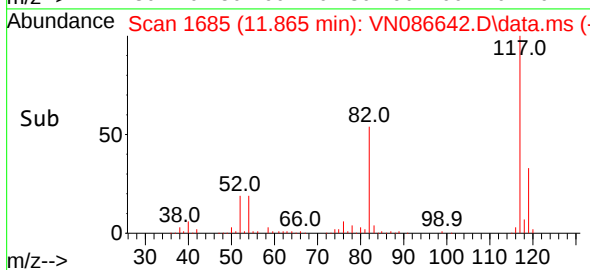
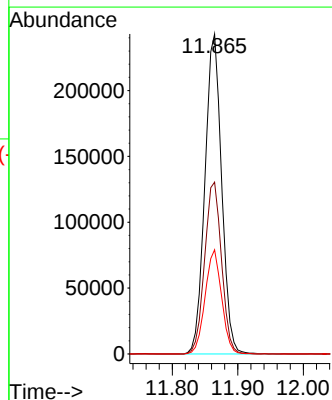
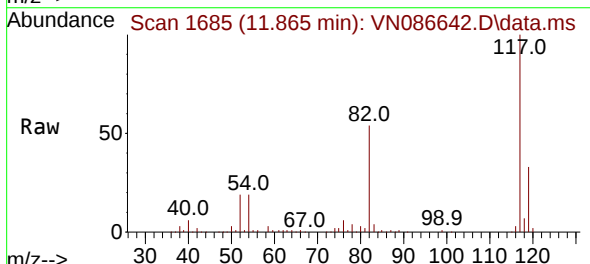
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#04

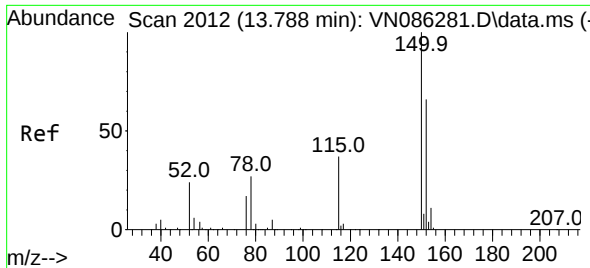
Tgt Ion: 95 Resp: 210312
Ion Ratio Lower Upper
95 100
174 73.7 0.0 133.4
176 70.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Tgt Ion: 117 Resp: 430918
Ion Ratio Lower Upper
117 100
82 53.7 44.7 67.1
119 32.5 26.4 39.6

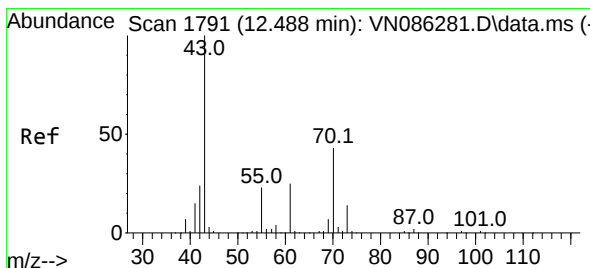
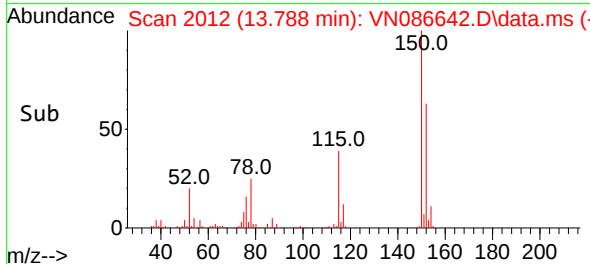
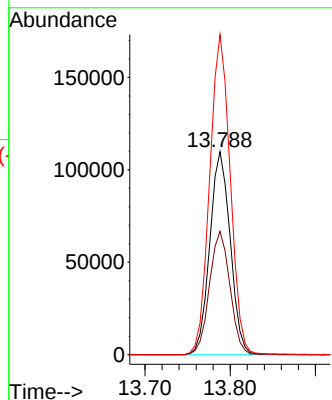
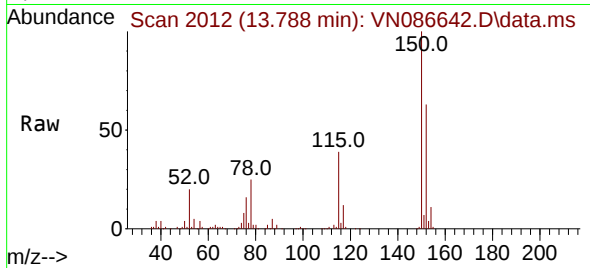




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086642.D
 Acq: 15 May 2025 13:59

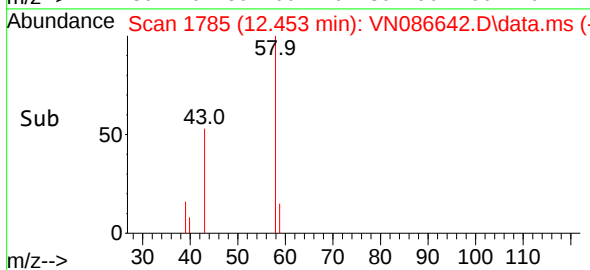
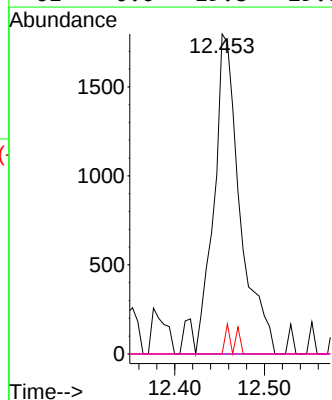
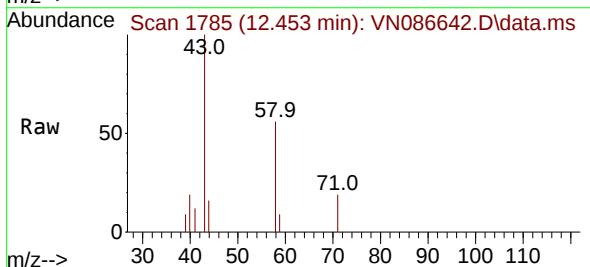
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#04

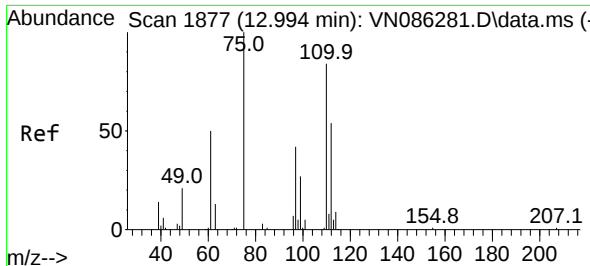
Tgt Ion:152 Resp: 183366
 Ion Ratio Lower Upper
 152 100
 115 60.9 31.9 95.9
 150 158.4 0.0 352.0



#74
 N-ethyl acetate
 Concen: 0.502 ug/l
 RT: 12.453 min Scan# 1785
 Delta R.T. -0.035 min
 Lab File: VN086642.D
 Acq: 15 May 2025 13:59

Tgt Ion: 43 Resp: 3746
 Ion Ratio Lower Upper
 43 100
 70 0.0 35.0 52.4#
 55 3.0 19.0 28.4#
 61 0.0 19.8 29.8#

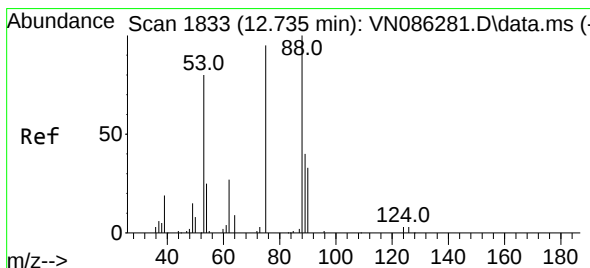
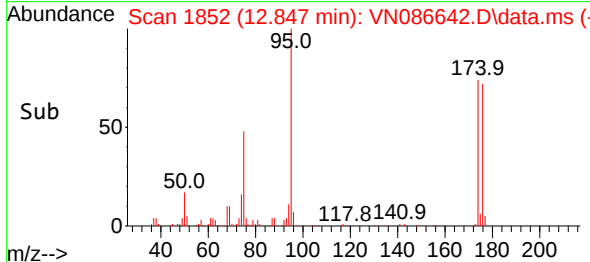
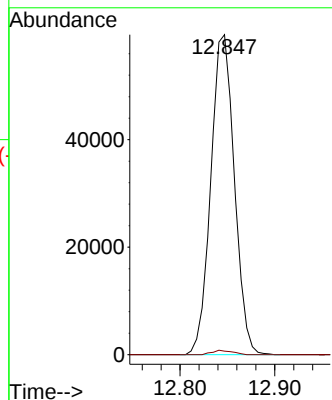
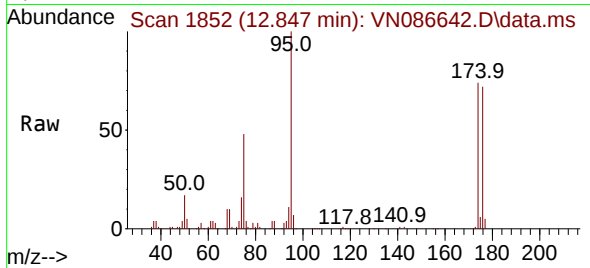




#76
1,2,3-Trichloropropane
Concen: 23.759 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#04

Tgt Ion: 75 Resp: 102811
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.061 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086642.D
Acq: 15 May 2025 13:59

Tgt Ion: 75 Resp: 102811
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

