

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086582.D
 Acq On : 12 May 2025 15:40
 Operator : JC\MD
 Sample : PB167932ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#07

Quant Time: May 13 01:53:53 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

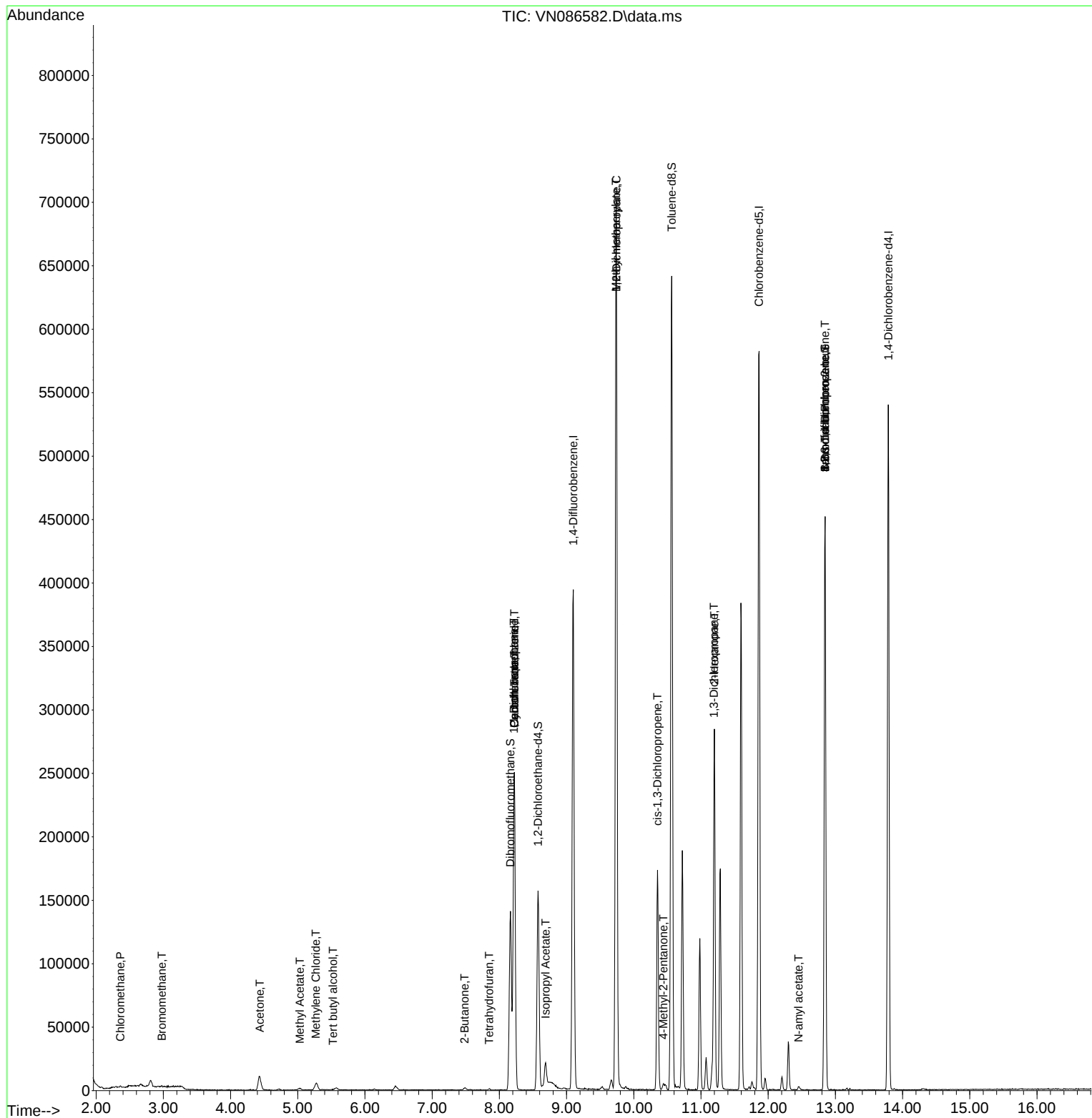
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	187035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	351653	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348036	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	148103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130651	48.172	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.340%
35) Dibromofluoromethane	8.165	113	104054	63.756	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	127.520%#
50) Toluene-d8	10.565	98	455697	52.244	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.480%
62) 4-Bromofluorobenzene	12.847	95	166064	52.197	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.400%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	790	0.245	ug/l	97
5) Bromomethane	2.977	94	305	0.221	ug/l #	72
11) Tert butyl alcohol	5.524	59	117	0.236	ug/l #	72
16) Acetone	4.436	43	22083	18.260	ug/l	97
18) Methyl Acetate	5.030	43	2695	0.828	ug/l #	78
20) Methylene Chloride	5.271	84	4578	1.826	ug/l #	93
25) 2-Butanone	7.483	43	3111	1.843	ug/l	96
29) Tetrahydrofuran	7.847	42	662	0.586	ug/l #	59
31) Cyclohexane	8.224	56	4008	0.912	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15560	4.773	ug/l #	49
38) Carbon Tetrachloride	8.224	117	18591	5.989	ug/l #	15
43) Isopropyl Acetate	8.688	43	28543	2.823	ug/l #	83
45) 1,2-Dichloropropane	9.741	63	899	0.352	ug/l #	43
48) Methyl methacrylate	9.735	41	63613	21.107	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	3488	0.993	ug/l	88
54) cis-1,3-Dichloropropene	10.353	75	32283	7.484	ug/l #	57
57) 1,3-Dichloropropane	11.194	76	3235	0.778	ug/l #	43
59) 2-Hexanone	11.200	43	53364	20.472	ug/l #	43
71) Bromoform	12.847	173	876	0.454	ug/l #	1
74) N-amyl acetate	12.453	43	2774	0.460	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	83702	23.949	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83702	57.517	ug/l #	10

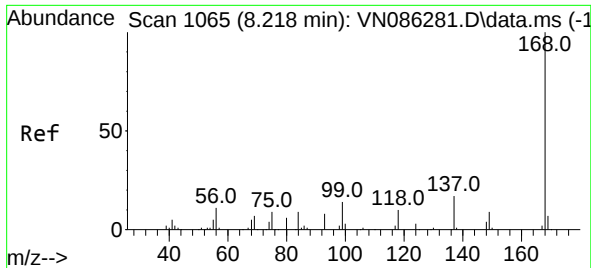
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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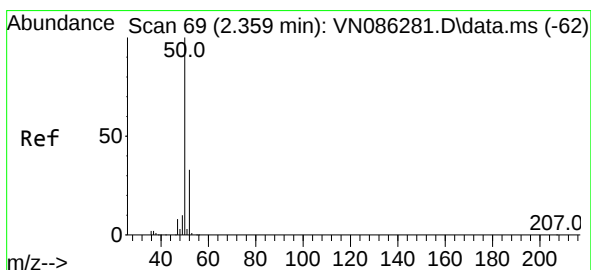
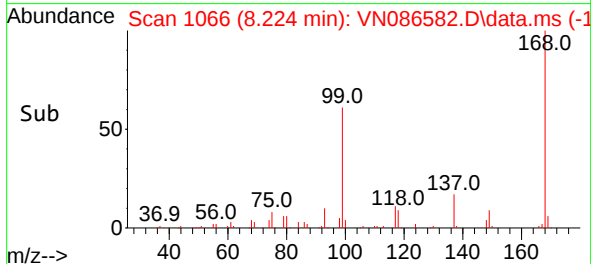
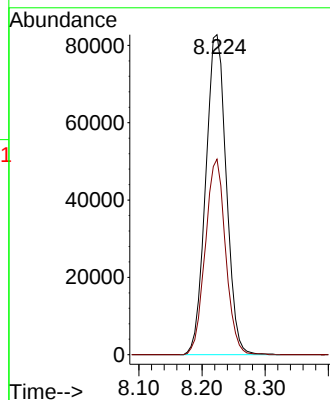
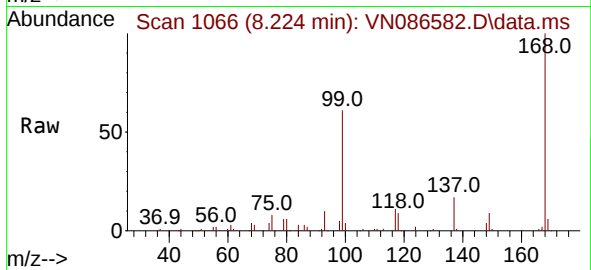




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

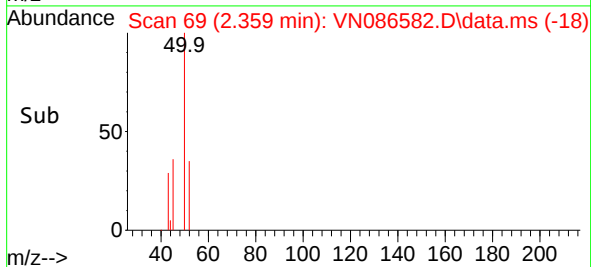
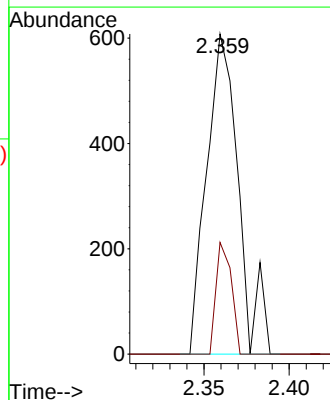
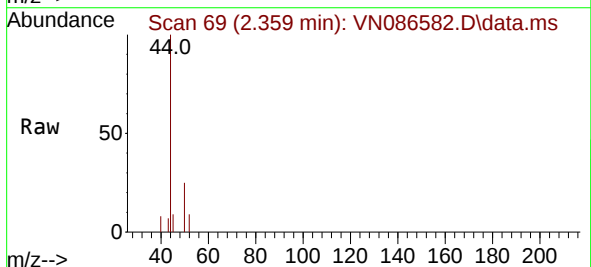
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

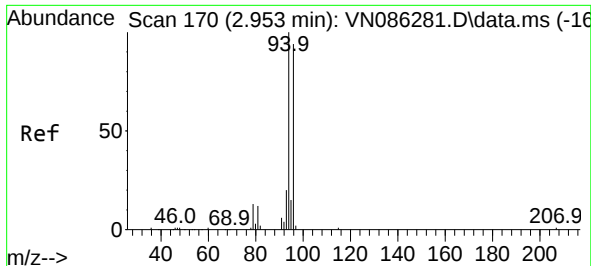
Tgt Ion:168 Resp: 187035
Ion Ratio Lower Upper
168 100
99 61.1 52.5 78.7



#3
Chloromethane
Concen: 0.245 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion: 50 Resp: 790
Ion Ratio Lower Upper
50 100
52 34.9 26.5 39.7

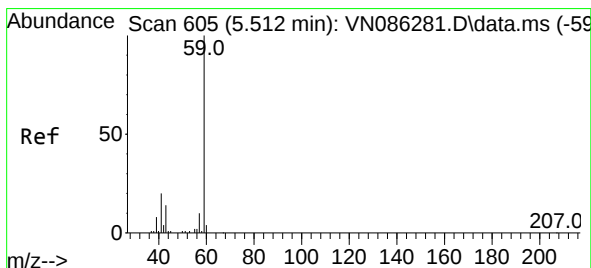
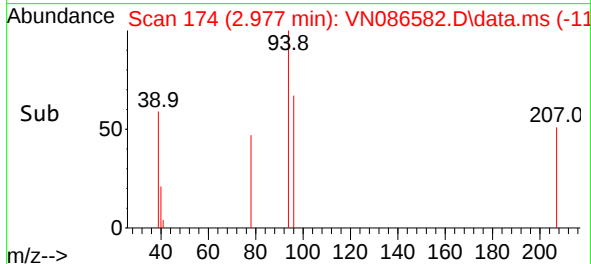
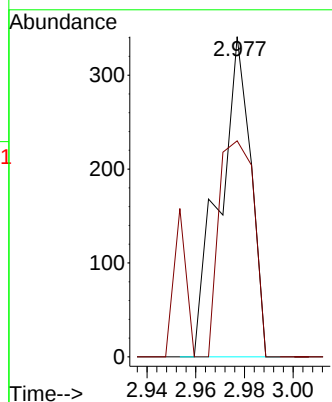
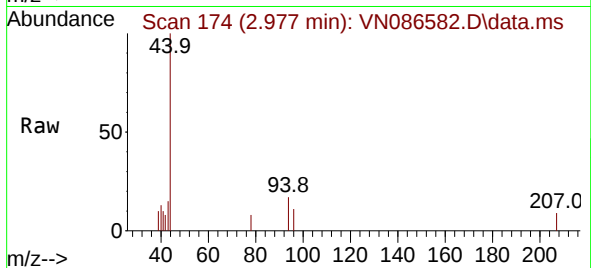




#5
Bromomethane
Concen: 0.221 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

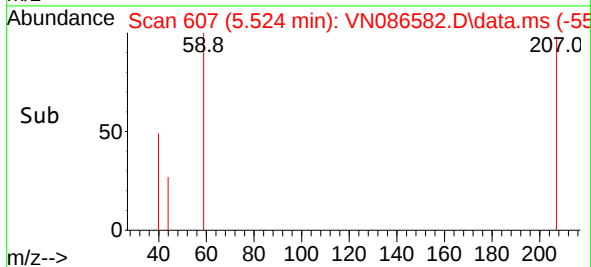
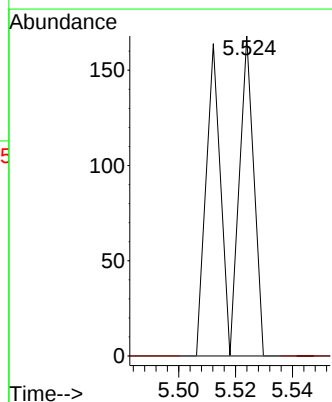
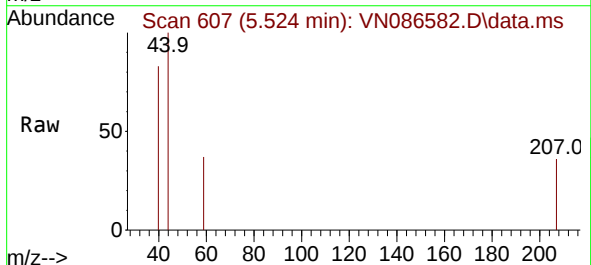
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

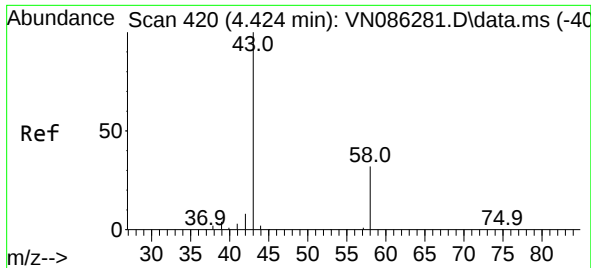
Tgt Ion: 94 Resp: 305
Ion Ratio Lower Upper
94 100
96 67.4 75.2 112.8#



#11
Tert butyl alcohol
Concen: 0.236 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion: 59 Resp: 117
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

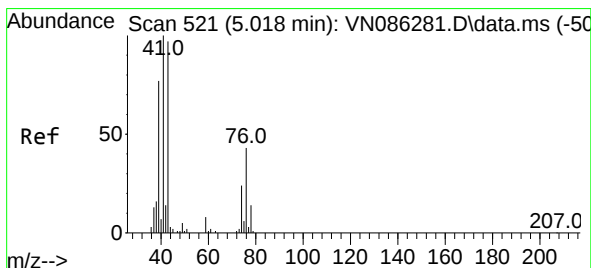
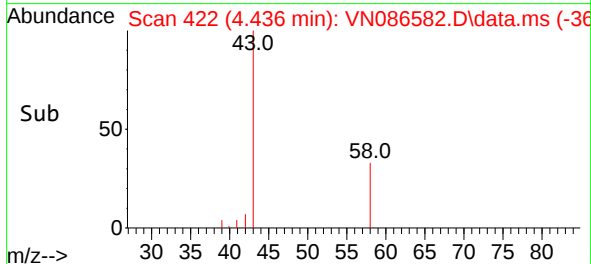
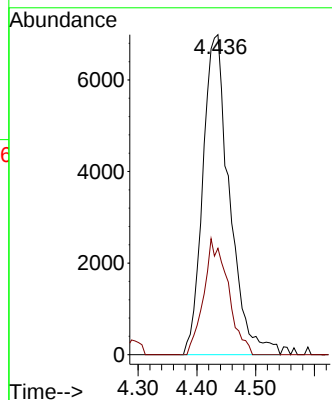
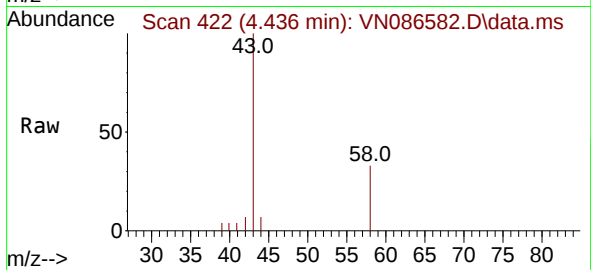




#16
Acetone
Concen: 18.260 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

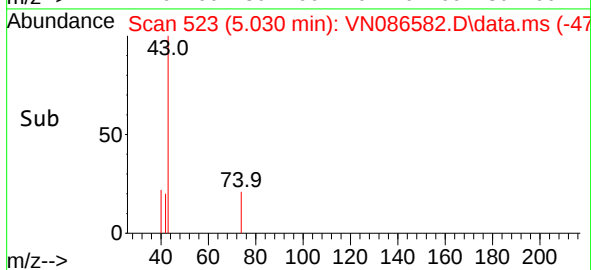
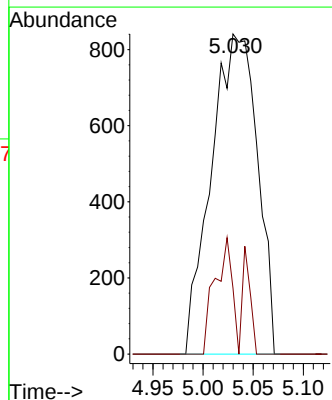
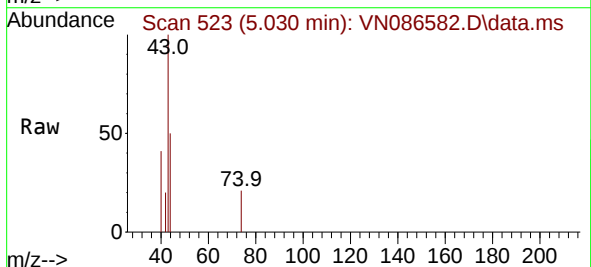
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

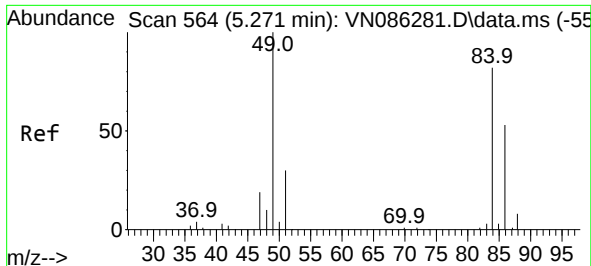
Tgt Ion: 43 Resp: 22083
Ion Ratio Lower Upper
43 100
58 33.3 25.3 37.9



#18
Methyl Acetate
Concen: 0.828 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

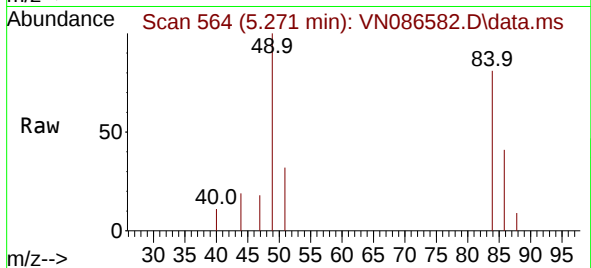
Tgt Ion: 43 Resp: 2695
Ion Ratio Lower Upper
43 100
74 13.7 19.8 29.6#



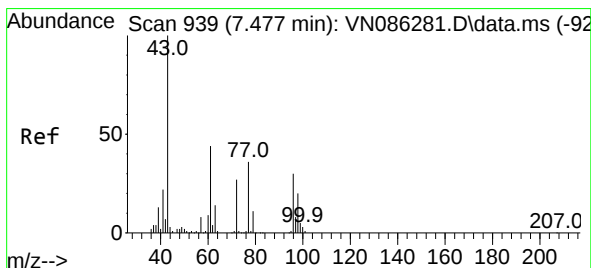
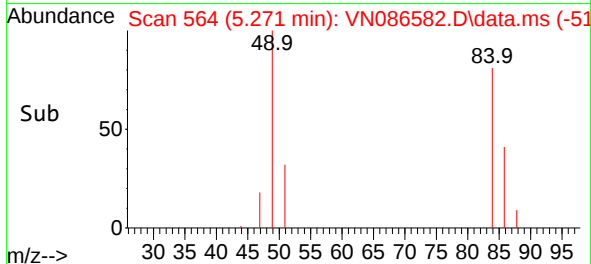
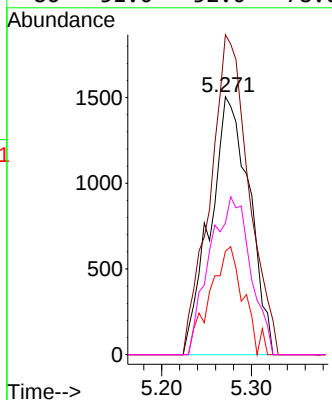


#20
Methylene Chloride
Concen: 1.826 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

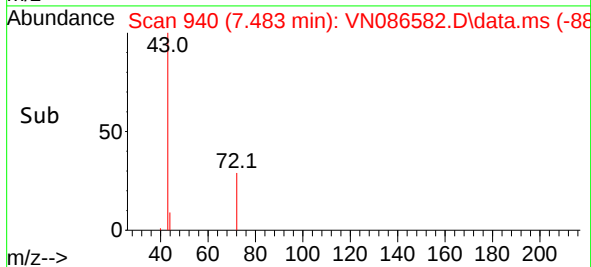
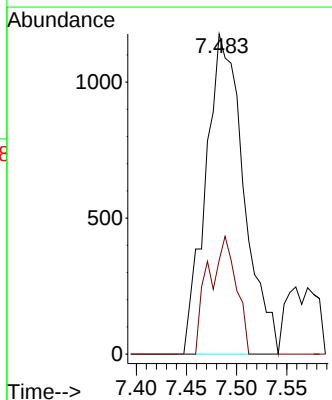
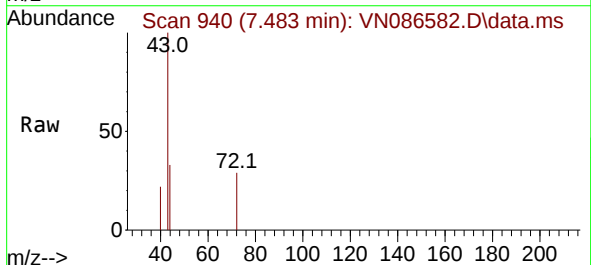


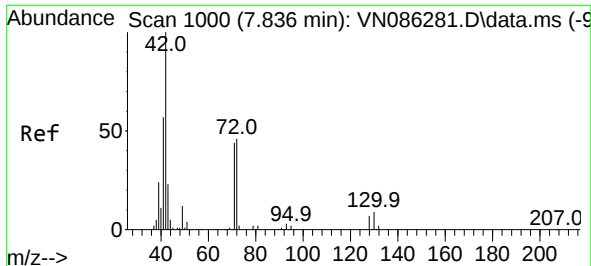
Tgt Ion:	84	Resp:	4578
Ion	Ratio	Lower	Upper
84	100		
49	124.1	98.2	147.2
51	40.1	29.8	44.6
86	51.0	52.0	78.0



#25
2-Butanone
Concen: 1.843 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion:	43	Resp:	3111
Ion	Ratio	Lower	Upper
43	100		
72	29.3	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.586 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086582.D

Acq: 12 May 2025 15:40

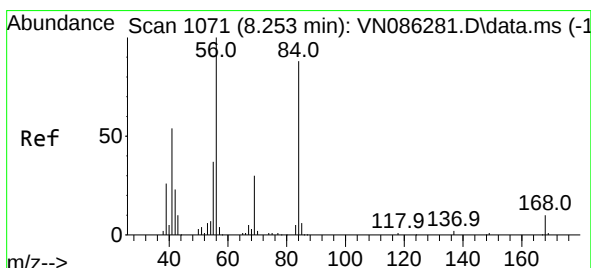
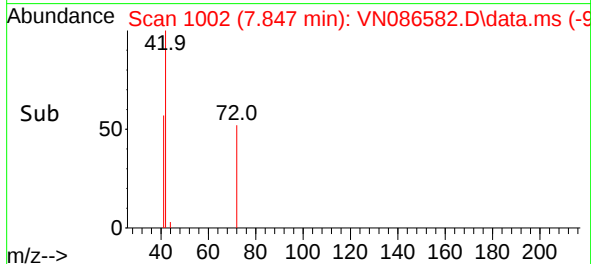
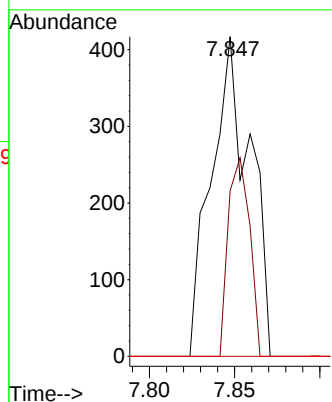
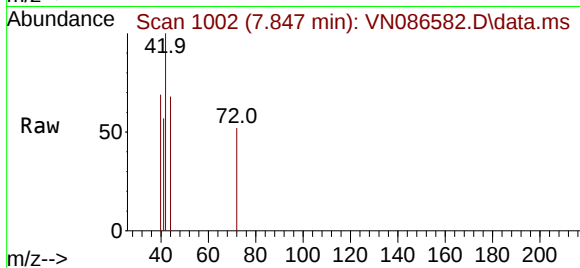
Instrument :

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ClientSampleId :

PB167932ZHE#07

Tgt Ion:	42	Resp:	662
Ion	Ratio	Lower	Upper
42	100		
72	34.4	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.912 ug/l

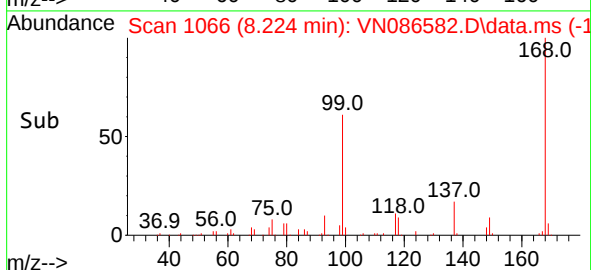
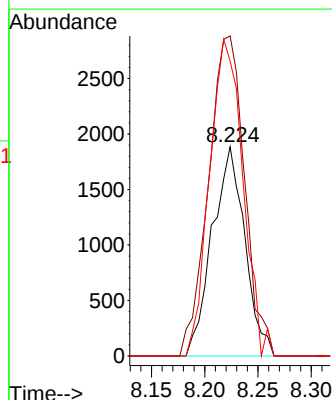
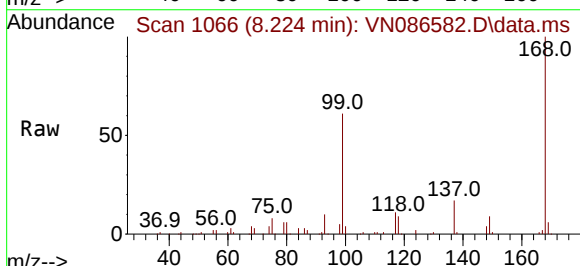
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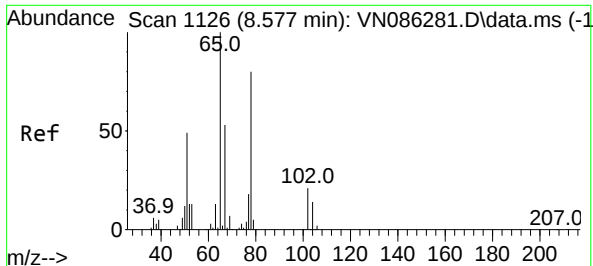
Delta R.T. -0.029 min

Lab File: VN086582.D

Acq: 12 May 2025 15:40

Tgt Ion:	56	Resp:	4008
Ion	Ratio	Lower	Upper
56	100		
69	153.1	24.2	36.2#
84	141.0	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.172 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086582.D

Acq: 12 May 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

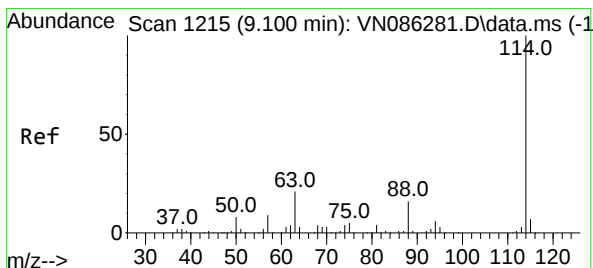
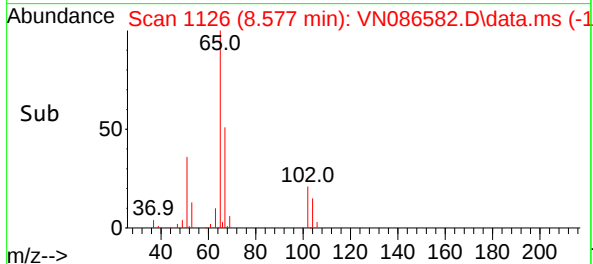
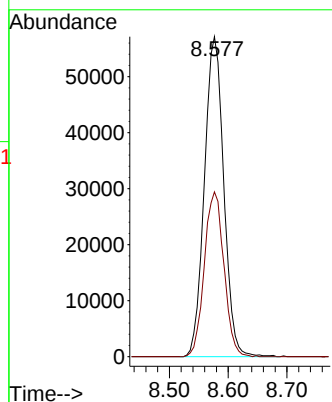
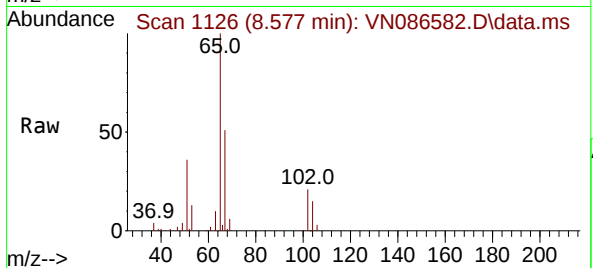
PB167932ZHE#07

Tgt Ion: 65 Resp: 130651

Ion Ratio Lower Upper

65 100

67 52.0 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: VN086582.D

Acq: 12 May 2025 15:40

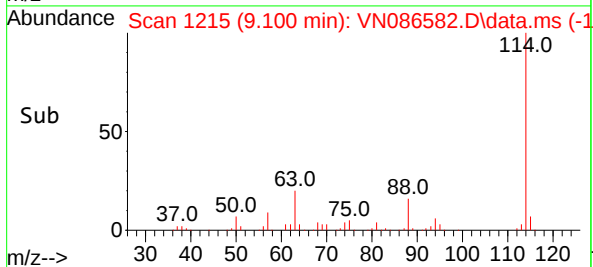
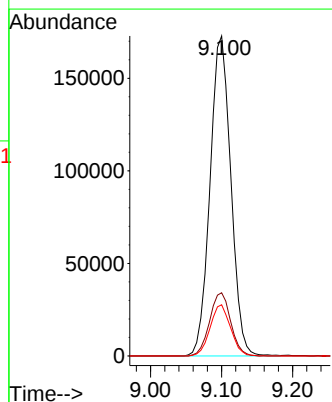
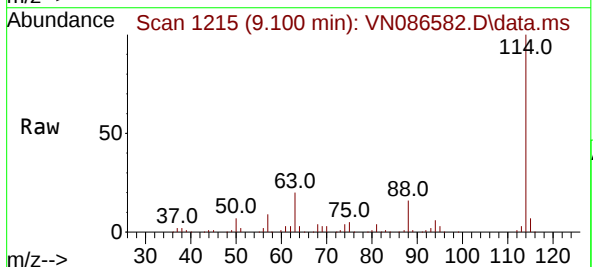
Tgt Ion: 114 Resp: 351653

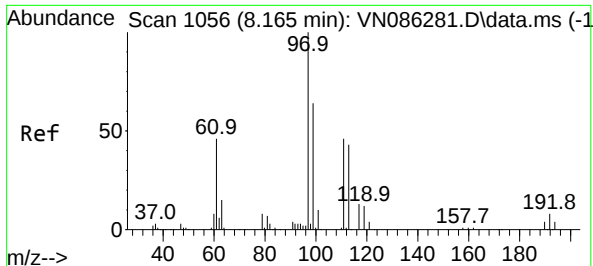
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.756 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086582.D

Acq: 12 May 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#07

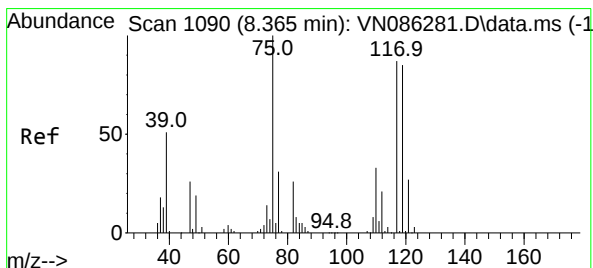
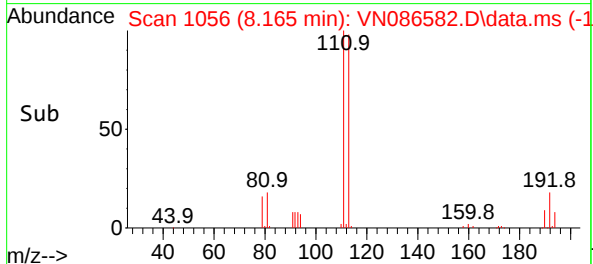
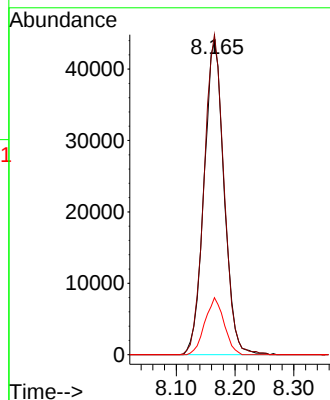
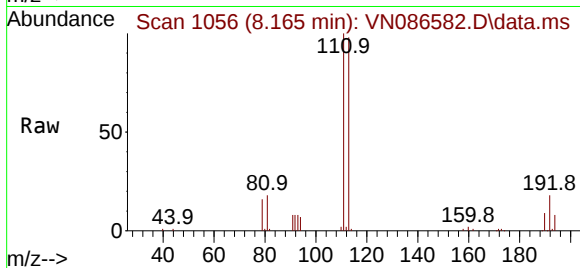
Tgt Ion:113 Resp: 104054

Ion Ratio Lower Upper

113 100

111 101.4 83.4 125.0

192 17.4 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.773 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086582.D

Acq: 12 May 2025 15:40

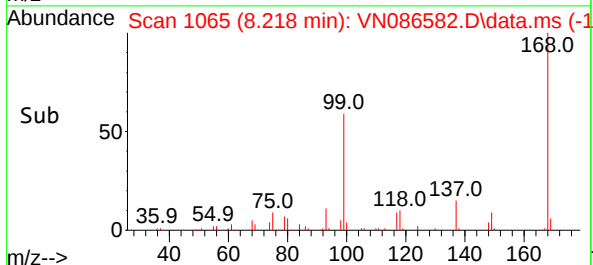
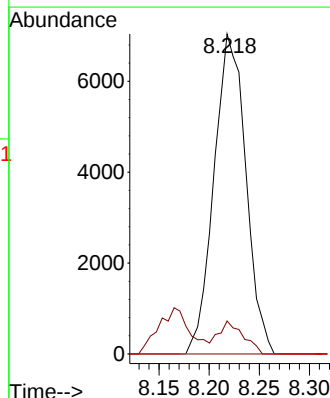
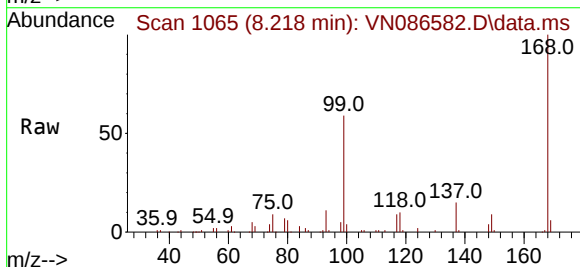
Tgt Ion: 75 Resp: 15560

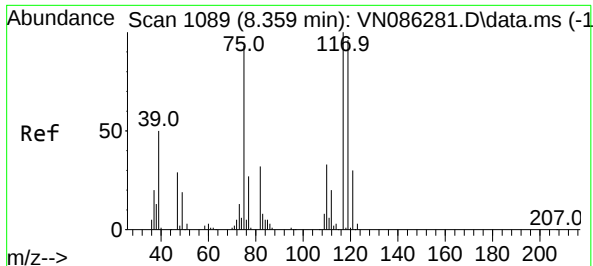
Ion Ratio Lower Upper

75 100

110 8.0 16.8 50.4#

77 0.0 24.9 37.3#

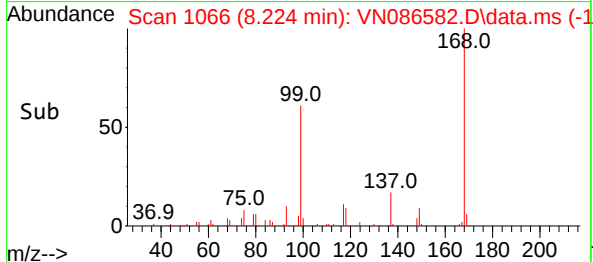
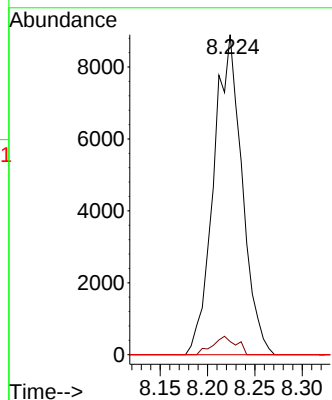
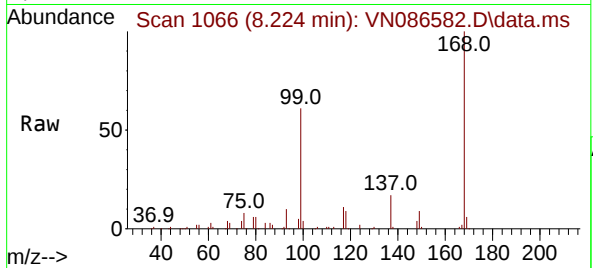




#38
Carbon Tetrachloride
Concen: 5.989 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

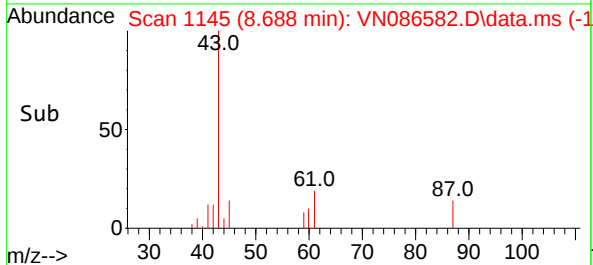
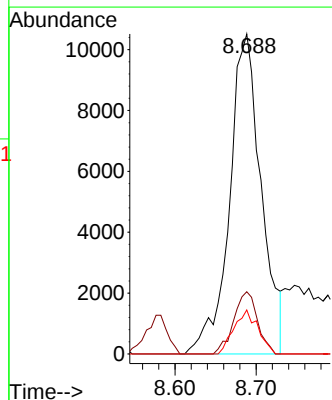
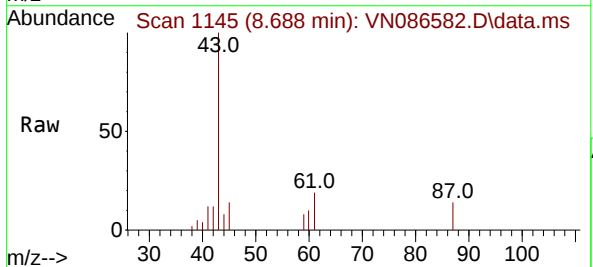
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

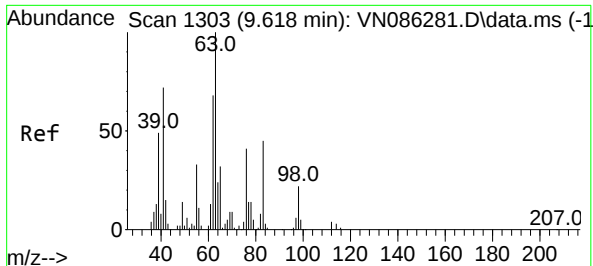
Tgt Ion:117 Resp: 18591
Ion Ratio Lower Upper
117 100
119 4.1 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 2.823 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion: 43 Resp: 28543
Ion Ratio Lower Upper
43 100
61 14.6 20.5 30.7#
87 10.4 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.352 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN086582.D

Acq: 12 May 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

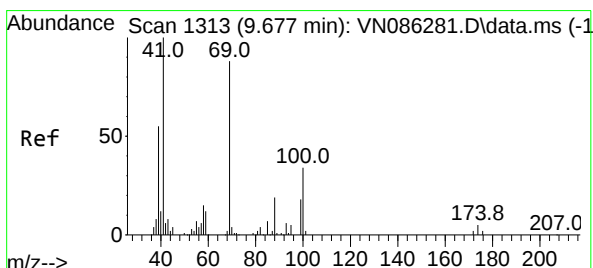
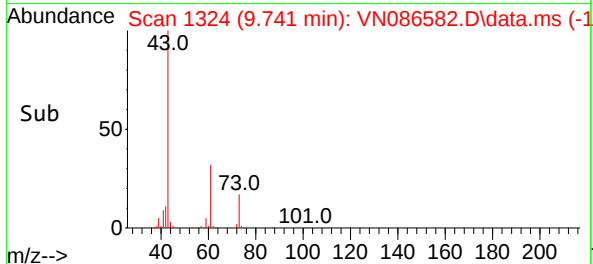
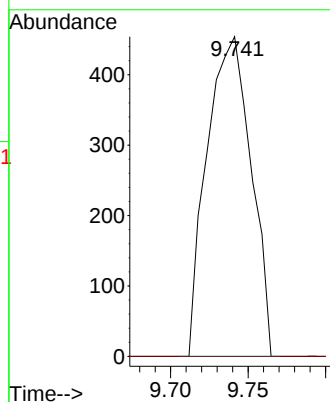
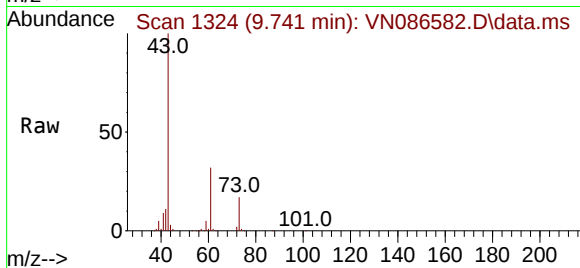
PB167932ZHE#07

Tgt Ion: 63 Resp: 899

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 21.107 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086582.D

Acq: 12 May 2025 15:40

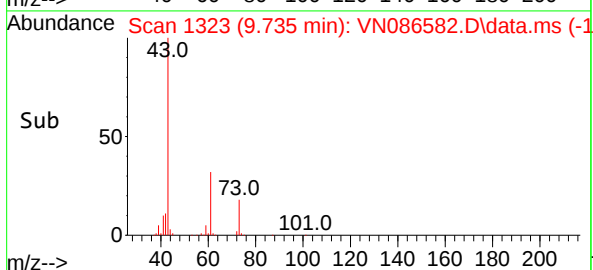
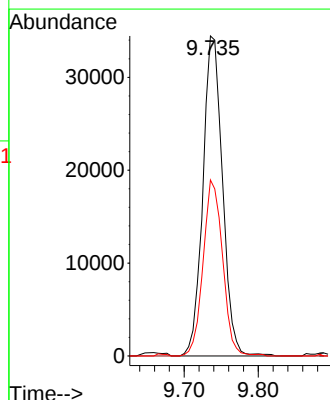
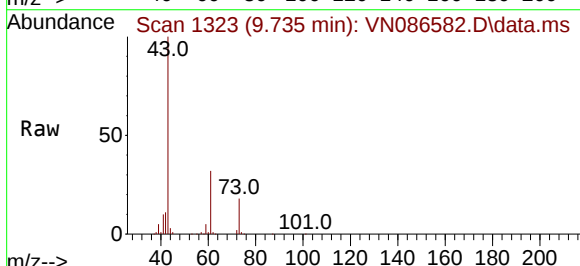
Tgt Ion: 41 Resp: 63613

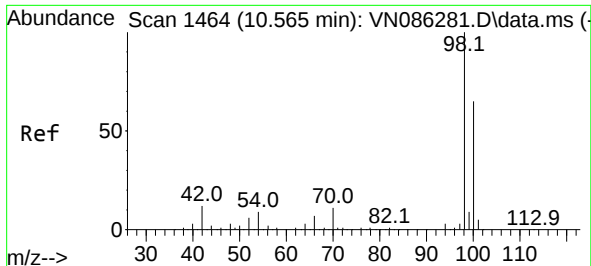
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.5 45.2 67.8

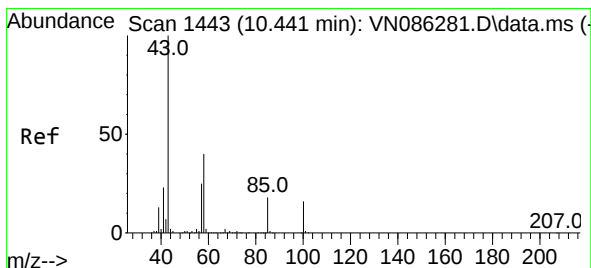
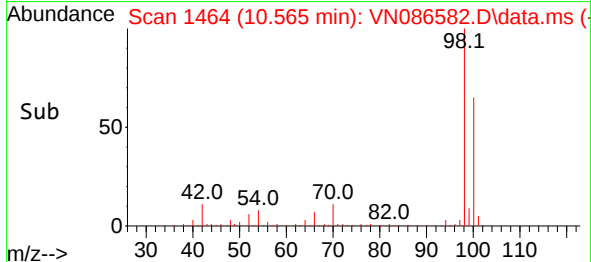
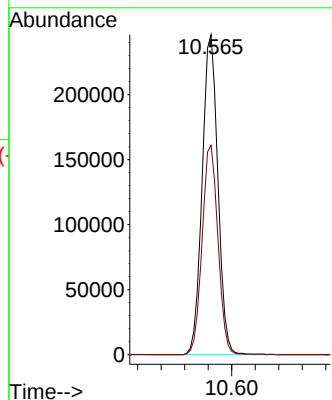
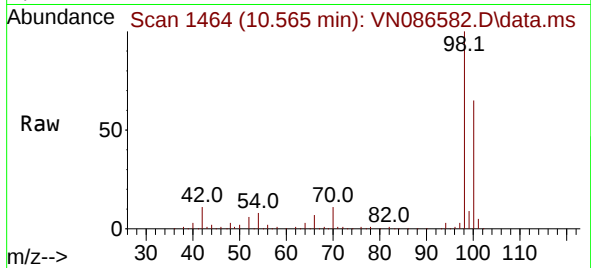




#50
Toluene-d8
Concen: 52.244 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

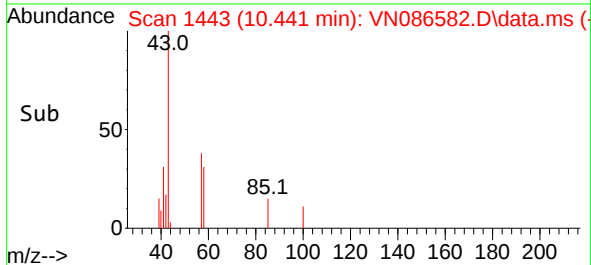
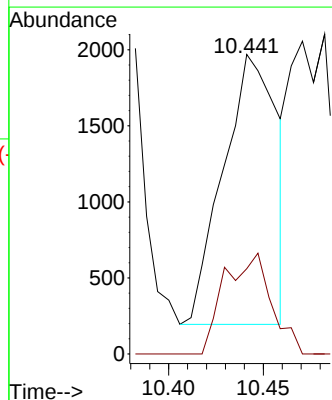
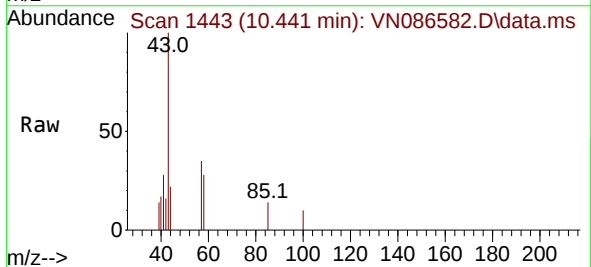
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

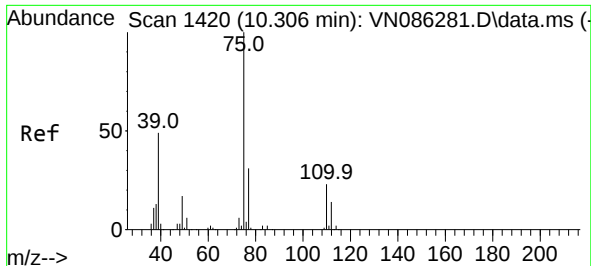
Tgt Ion: 98 Resp: 455697
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.993 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion: 43 Resp: 3488
Ion Ratio Lower Upper
43 100
58 32.6 32.2 48.4

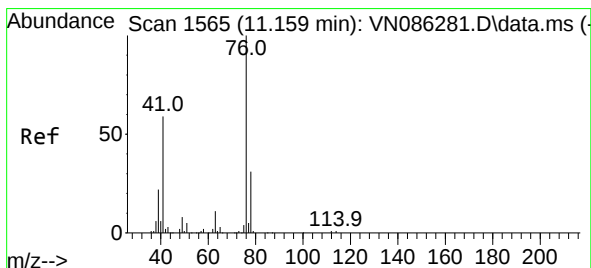
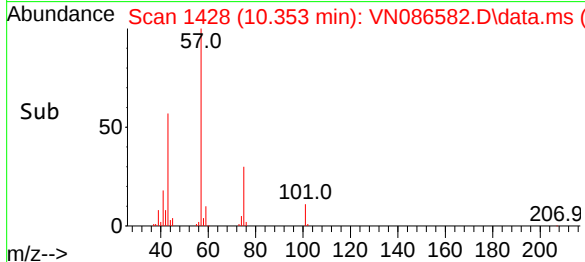
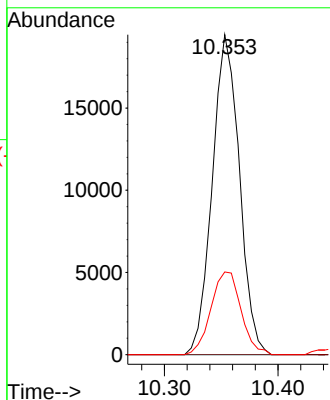
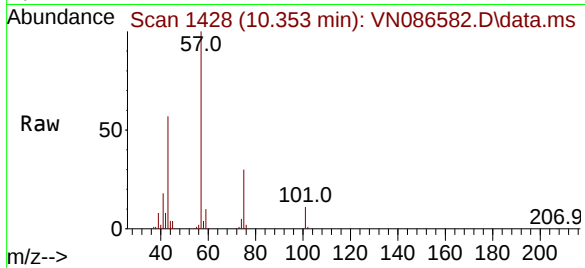




#54
 cis-1,3-Dichloropropene
 Concen: 7.484 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086582.D
 Acq: 12 May 2025 15:40

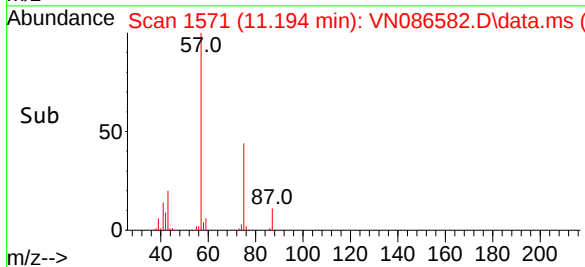
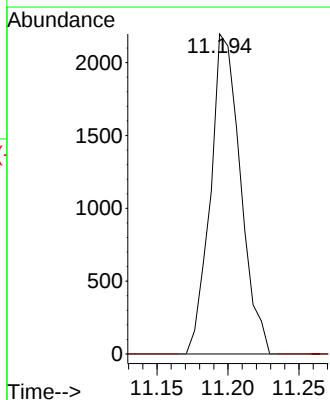
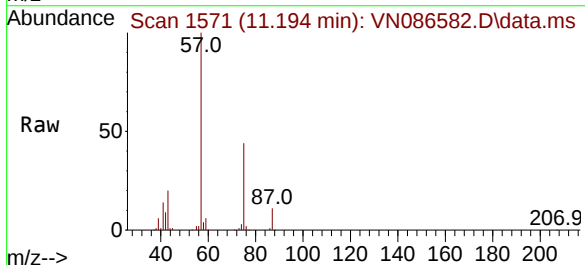
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#07

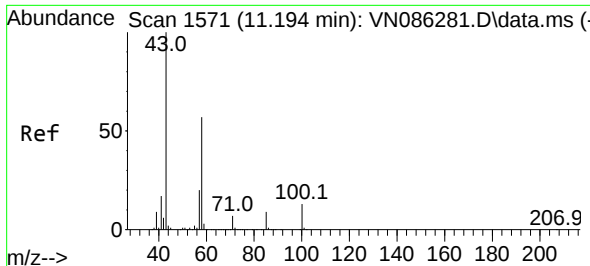
Tgt Ion: 75 Resp: 32283
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 25.8 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.778 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086582.D
 Acq: 12 May 2025 15:40

Tgt Ion: 76 Resp: 3235
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

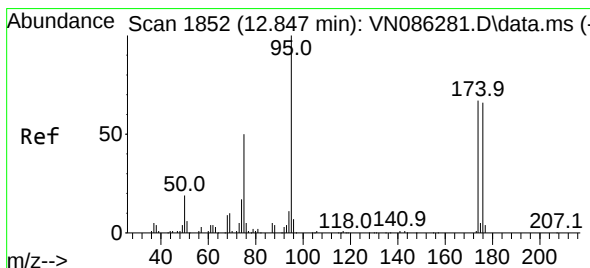
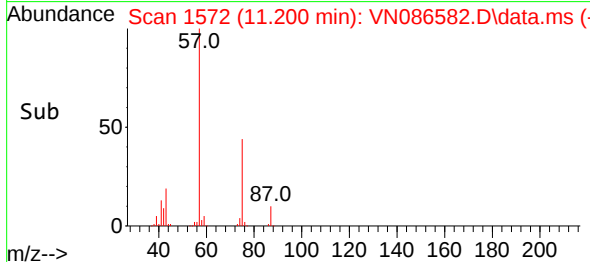
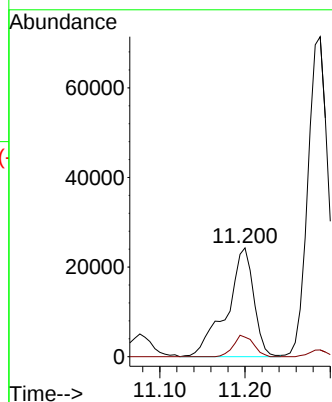
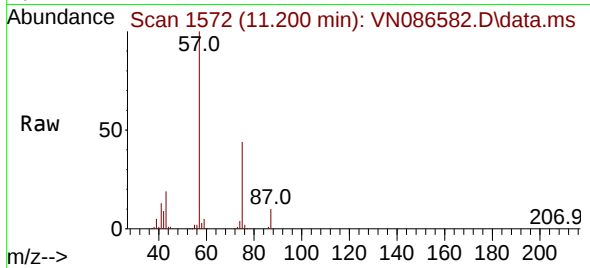




#59
2-Hexanone
Concen: 20.472 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

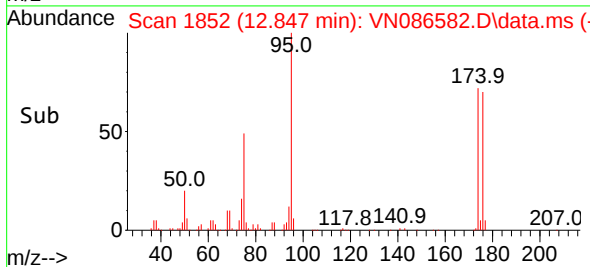
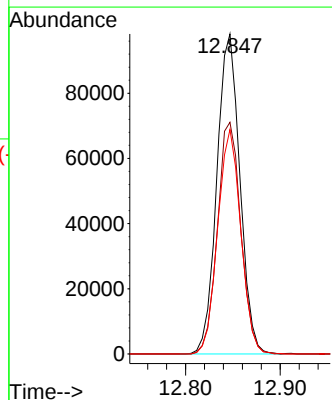
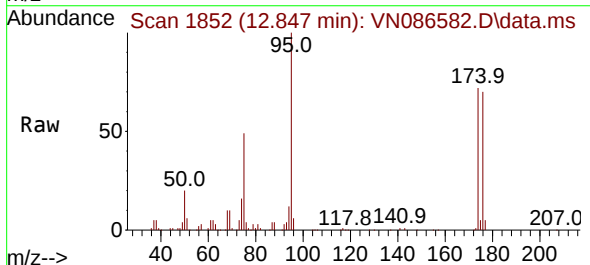
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

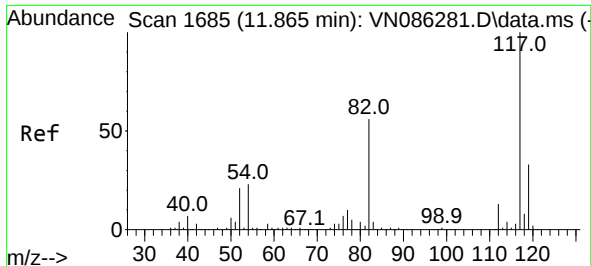
Tgt Ion: 43 Resp: 53364
Ion Ratio Lower Upper
43 100
58 14.6 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 52.197 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion: 95 Resp: 166064
Ion Ratio Lower Upper
95 100
174 73.3 0.0 133.4
176 70.2 0.0 129.2

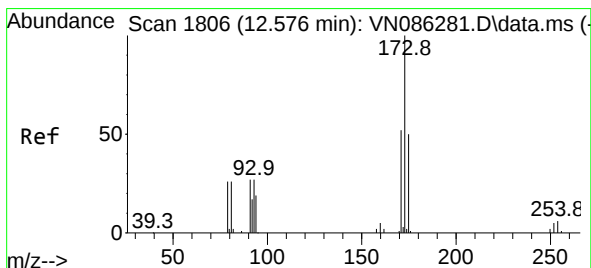
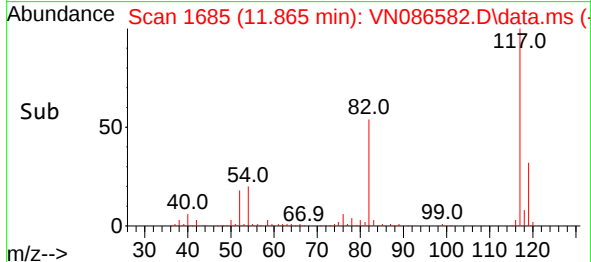
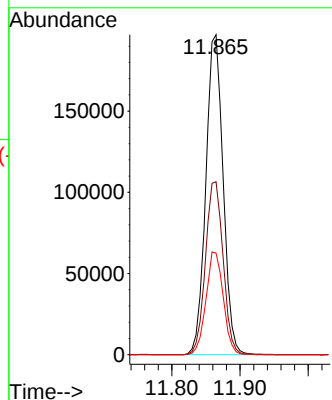
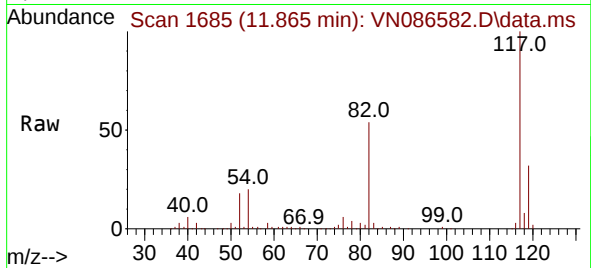




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

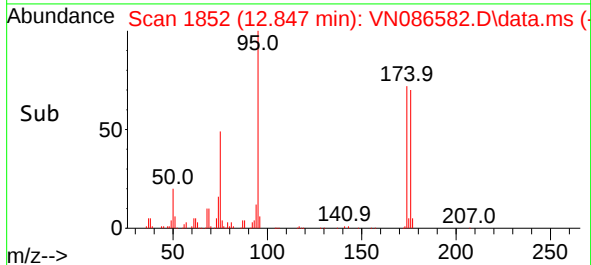
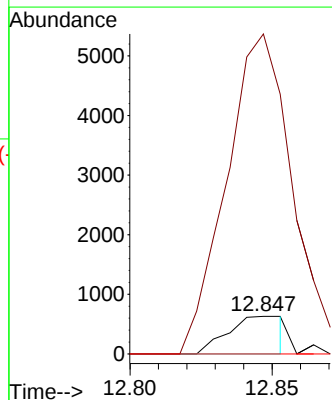
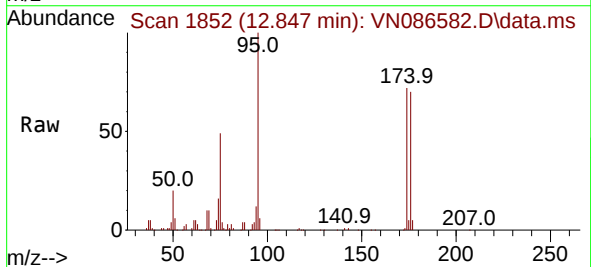
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

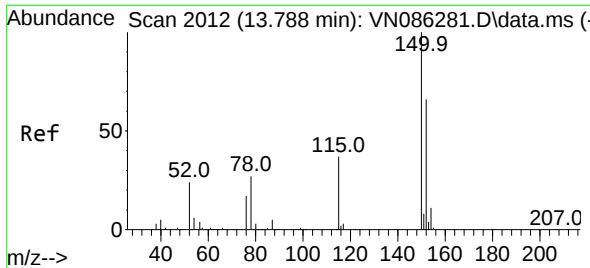
Tgt Ion:117 Resp: 348036
Ion Ratio Lower Upper
117 100
82 54.0 44.7 67.1
119 31.7 26.4 39.6



#71
Bromoform
Concen: 0.454 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion:173 Resp: 876
Ion Ratio Lower Upper
173 100
175 825.9 24.6 73.6#
254 0.0 0.0 0.0

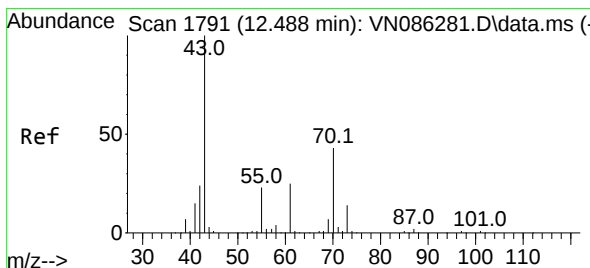
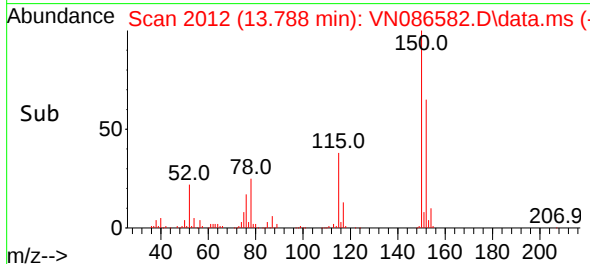
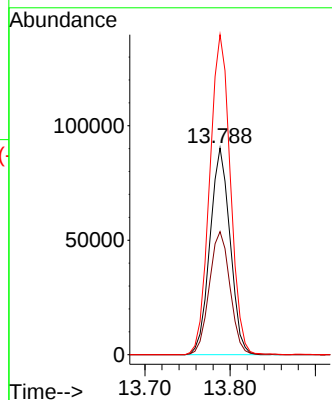
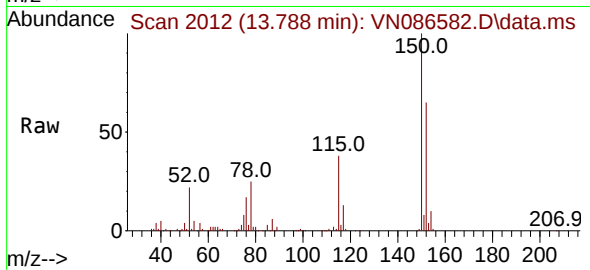




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086582.D
 Acq: 12 May 2025 15:40

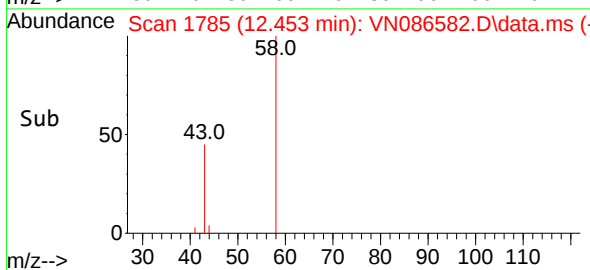
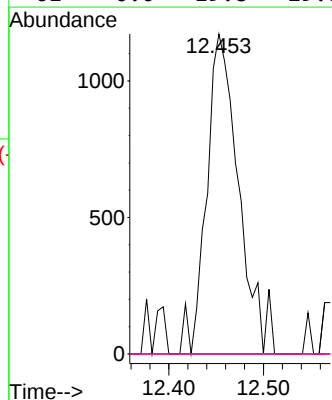
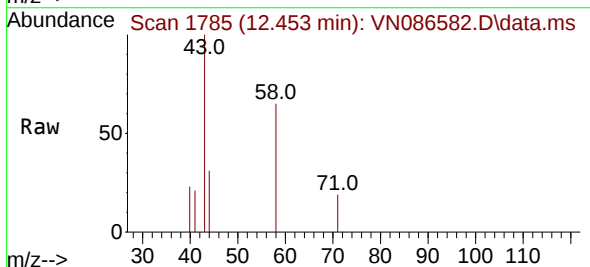
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#07

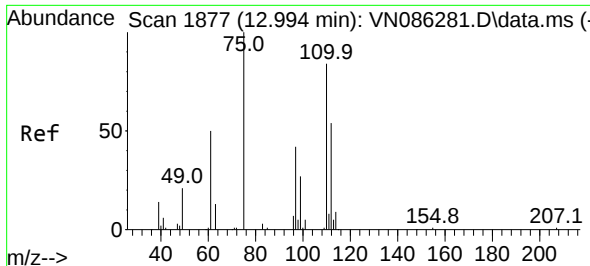
Tgt Ion:152 Resp: 148103
 Ion Ratio Lower Upper
 152 100
 115 61.2 31.9 95.9
 150 159.0 0.0 352.0



#74
 N-ethyl acetate
 Concen: 0.460 ug/l
 RT: 12.453 min Scan# 1785
 Delta R.T. -0.035 min
 Lab File: VN086582.D
 Acq: 12 May 2025 15:40

Tgt Ion: 43 Resp: 2774
 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#

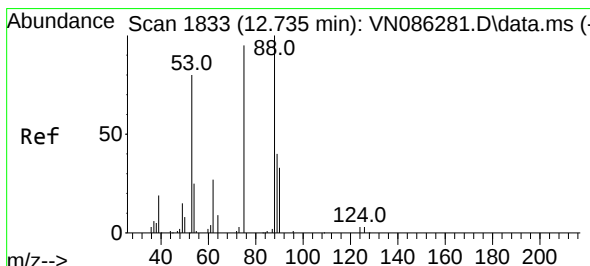
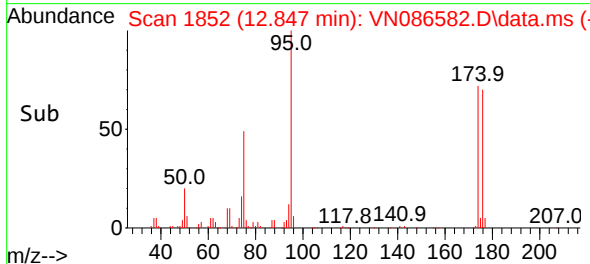
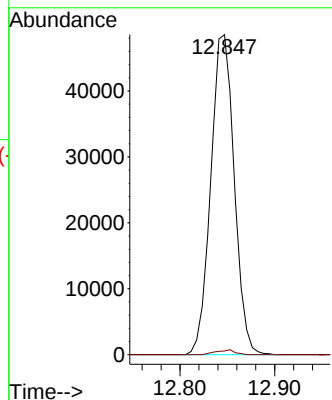
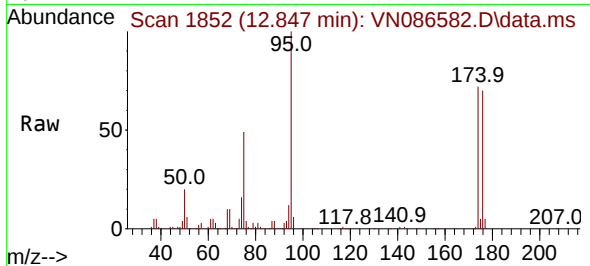




#76
1,2,3-Trichloropropane
Concen: 23.949 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#07

Tgt Ion: 75 Resp: 83702
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.517 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086582.D
Acq: 12 May 2025 15:40

Tgt Ion: 75 Resp: 83702
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

