

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050825\
 Data File : VN086549.D
 Acq On : 08 May 2025 16:37
 Operator : JC\MD
 Sample : PB167895ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#07

Quant Time: May 09 01:54:37 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

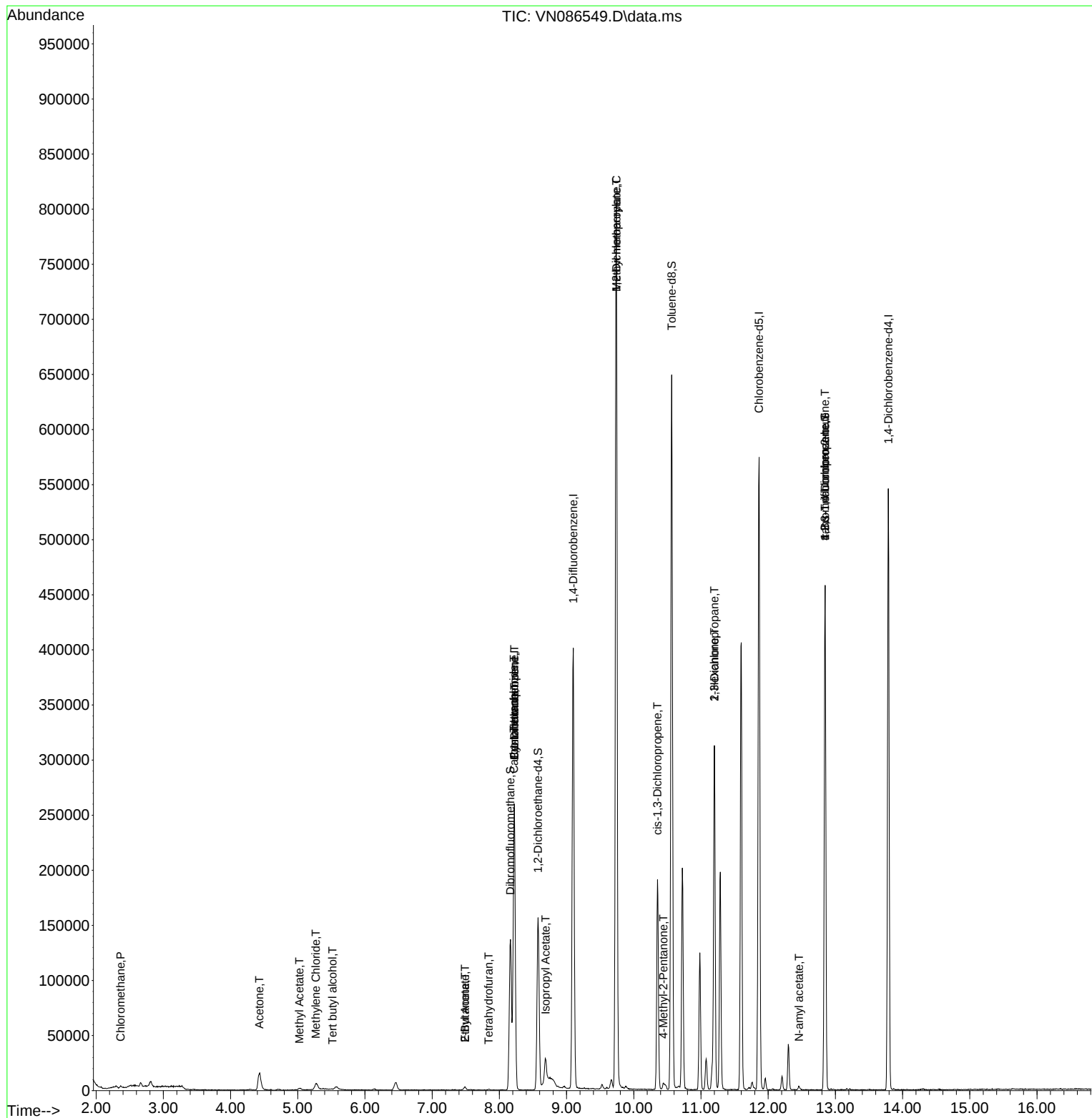
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	193765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	357491	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	343484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	148134	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130518	46.452	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.900%
35) Dibromofluoromethane	8.165	113	101245	61.022	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	122.040%
50) Toluene-d8	10.565	98	450365	50.789	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.580%
62) 4-Bromofluorobenzene	12.847	95	163743	50.627	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.260%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	944	0.283	ug/l #	85
11) Tert butyl alcohol	5.518	59	108	0.211	ug/l #	72
16) Acetone	4.430	43	32065	27.938	ug/l	95
18) Methyl Acetate	5.024	43	3457	1.025	ug/l #	89
20) Methylene Chloride	5.271	84	4808	1.851	ug/l #	86
25) 2-Butanone	7.488	43	5139	2.938	ug/l	98
29) Tetrahydrofuran	7.841	42	533	0.456	ug/l #	49
31) Cyclohexane	8.224	56	4298	0.944	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	15316	4.622	ug/l #	51
37) Ethyl Acetate	7.488	43	5139	1.473	ug/l #	68
38) Carbon Tetrachloride	8.218	117	19277	6.108	ug/l #	15
43) Isopropyl Acetate	8.688	43	40492	4.686	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	945	0.364	ug/l #	43
48) Methyl methacrylate	9.741	41	72993	23.824	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	3254	0.911	ug/l #	70
54) cis-1,3-Dichloropropene	10.353	75	36707	8.371	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3333	0.788	ug/l #	43
59) 2-Hexanone	11.200	43	59195	22.338	ug/l #	42
74) N-amyl acetate	12.459	43	3105	0.515	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	83031	23.752	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83031	57.044	ug/l #	10

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

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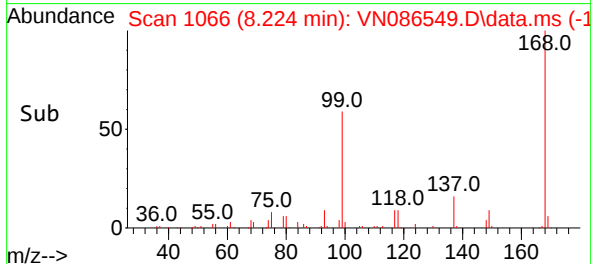
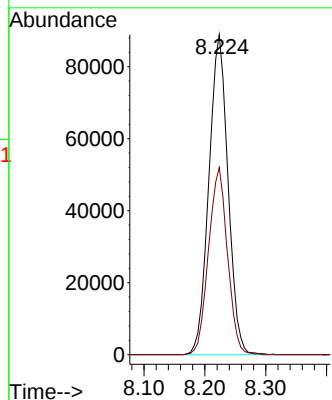
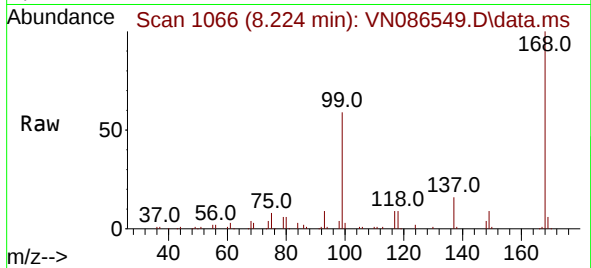




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

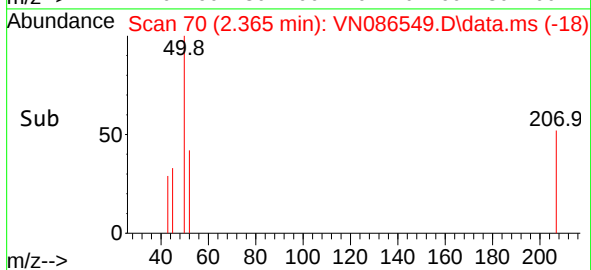
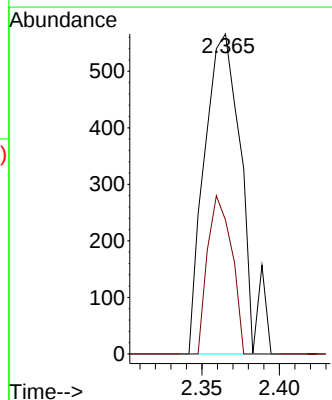
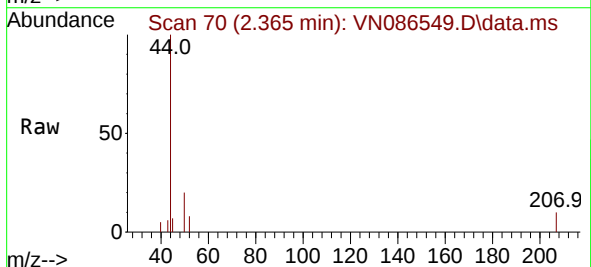
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

Tgt Ion:168 Resp: 193765
Ion Ratio Lower Upper
168 100
99 58.5 52.5 78.7



#3
Chloromethane
Concen: 0.283 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 50 Resp: 944
Ion Ratio Lower Upper
50 100
52 41.9 26.5 39.7#

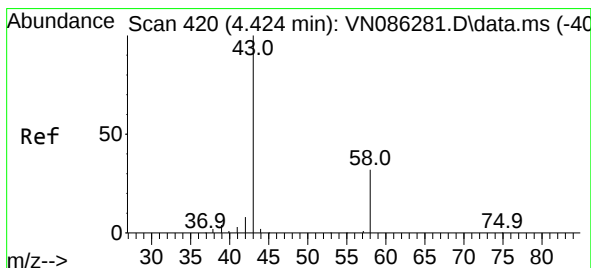
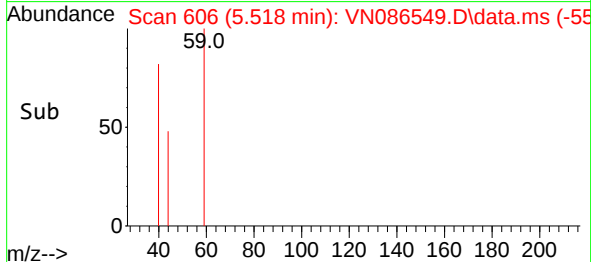
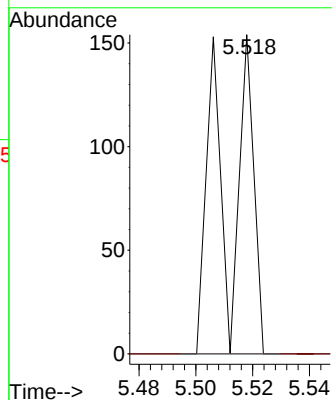
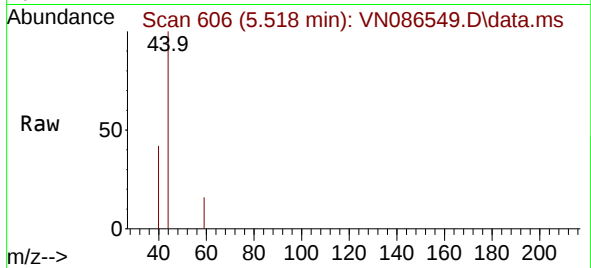




#11
Tert butyl alcohol
Concen: 0.211 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

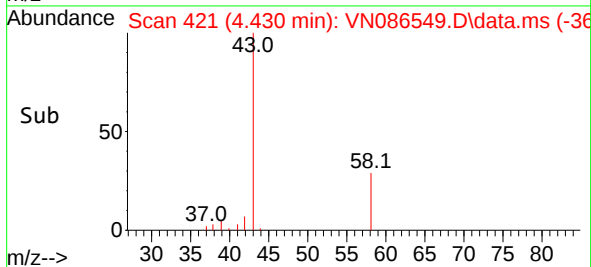
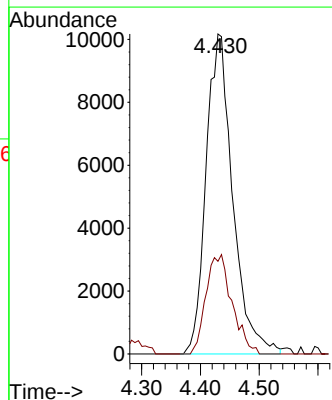
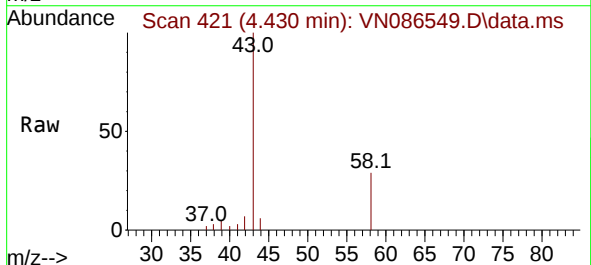
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

Tgt Ion: 59 Resp: 108
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 27.938 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

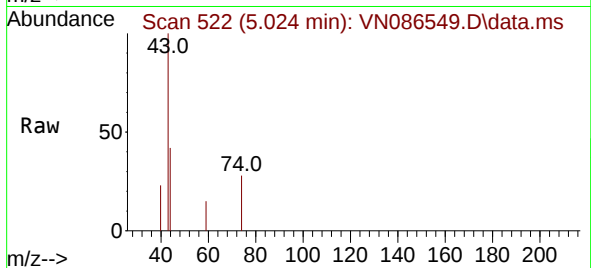
Tgt Ion: 43 Resp: 32065
Ion Ratio Lower Upper
43 100
58 29.0 25.3 37.9



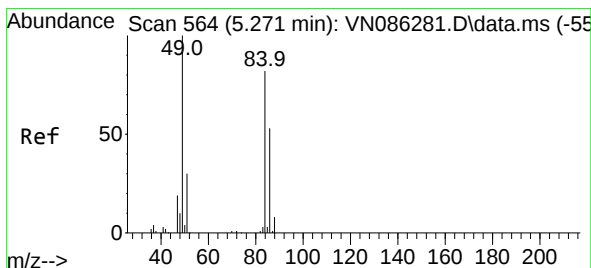
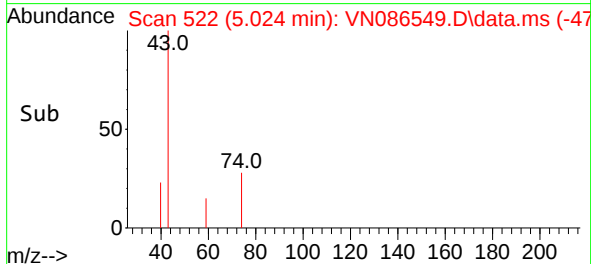
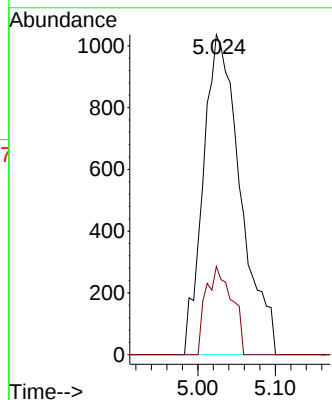


#18
Methyl Acetate
Concen: 1.025 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

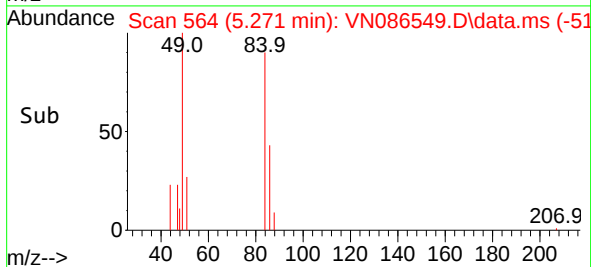
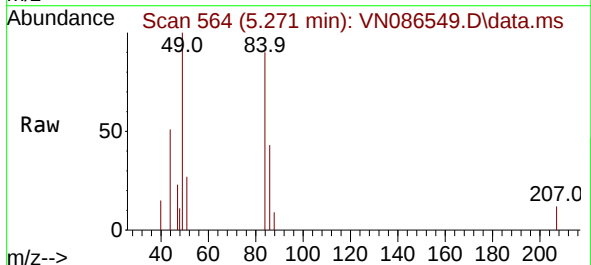
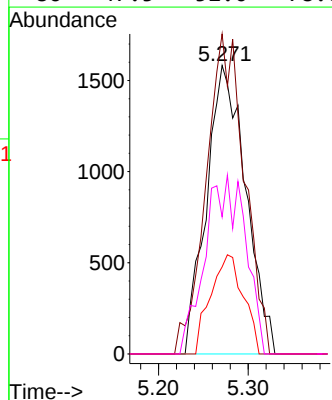


Tgt Ion: 43 Resp: 3457
Ion Ratio Lower Upper
43 100
74 19.2 19.8 29.6#



#20
Methylene Chloride
Concen: 1.851 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 84 Resp: 4808
Ion Ratio Lower Upper
84 100
49 110.9 98.2 147.2
51 30.2 29.8 44.6
86 47.5 52.0 78.0#

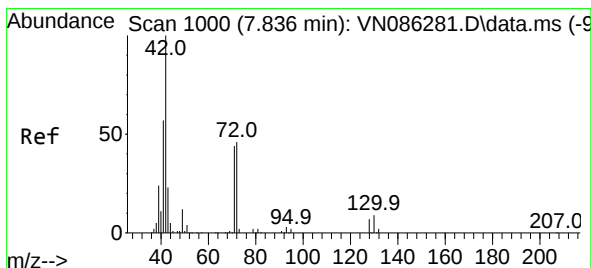
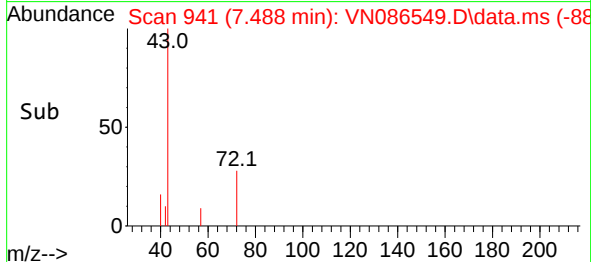
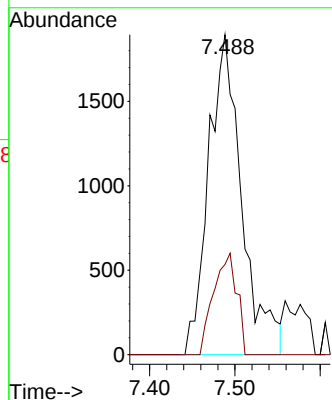
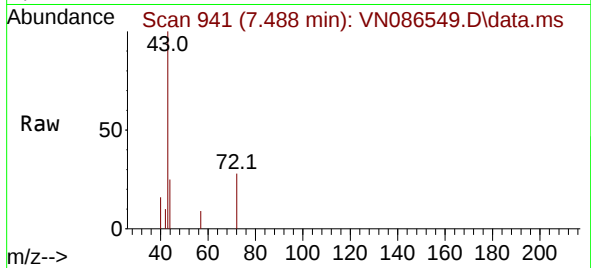




#25
2-Butanone
Concen: 2.938 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

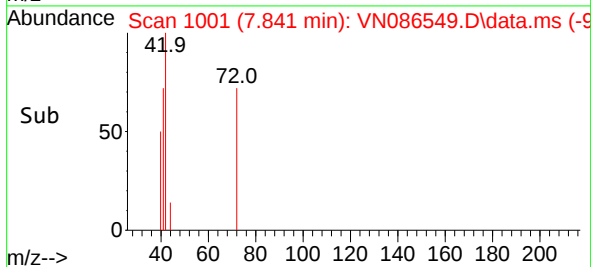
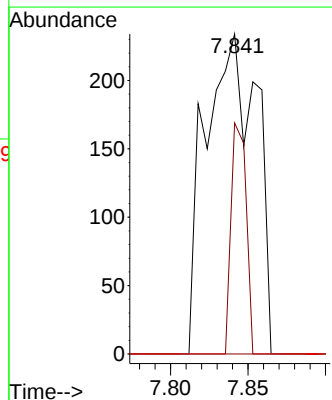
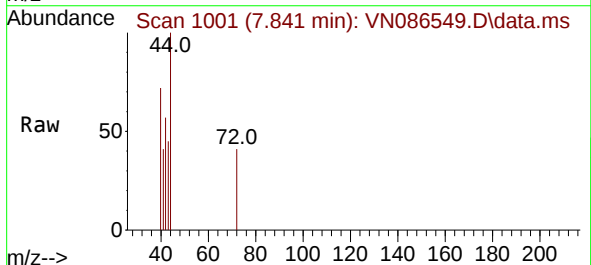
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

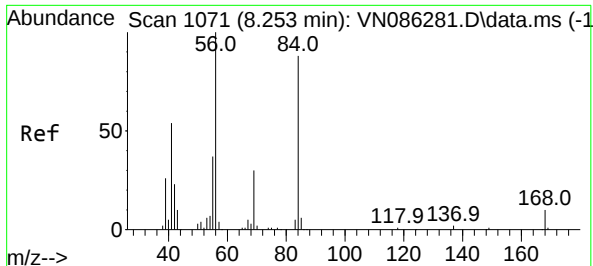
Tgt Ion: 43 Resp: 5139
Ion Ratio Lower Upper
43 100
72 28.2 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.456 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 42 Resp: 533
Ion Ratio Lower Upper
42 100
72 21.4 36.2 54.4#
71 0.0 34.0 51.0#

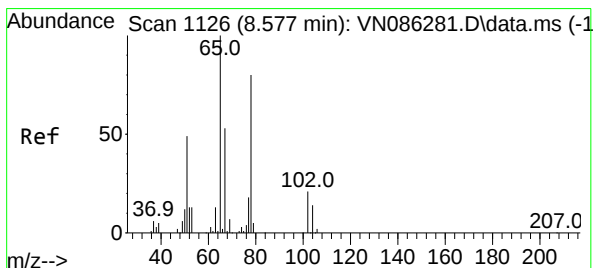
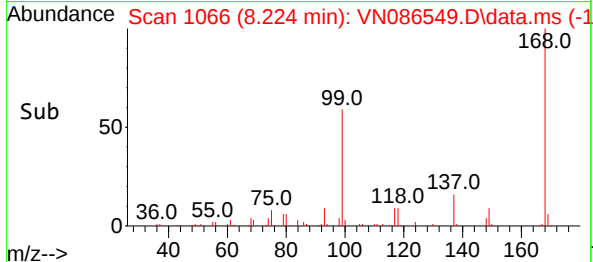
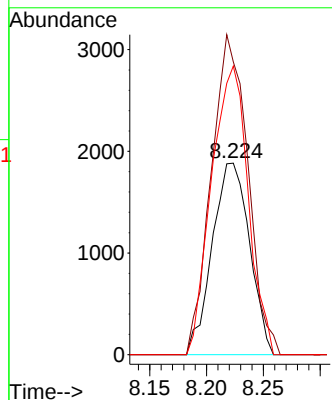
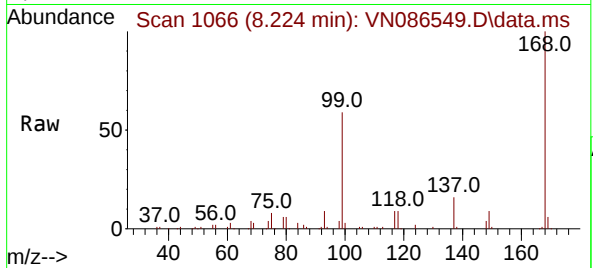




#31
Cyclohexane
Concen: 0.944 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

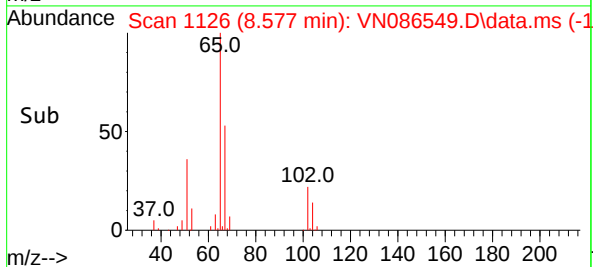
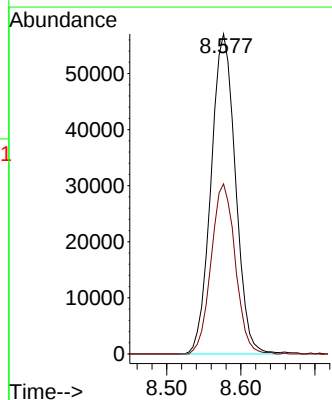
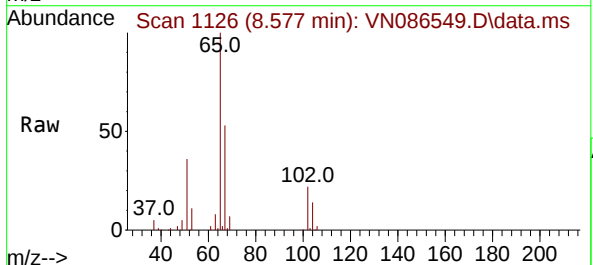
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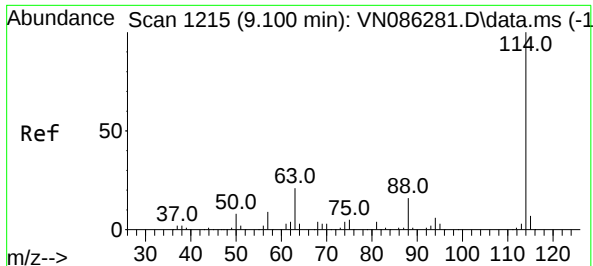
Tgt Ion: 56 Resp: 4298
Ion Ratio Lower Upper
56 100
69 152.9 24.2 36.2#
84 150.6 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 46.452 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 65 Resp: 130518
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086549.D

Acq: 08 May 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#07

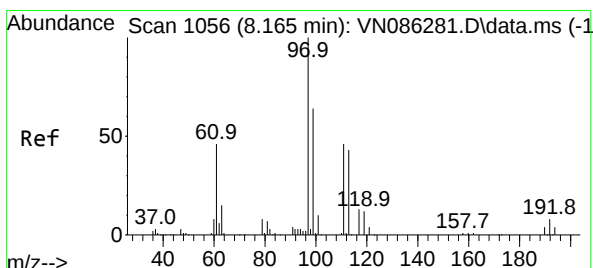
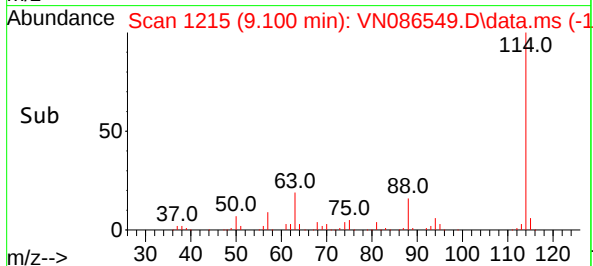
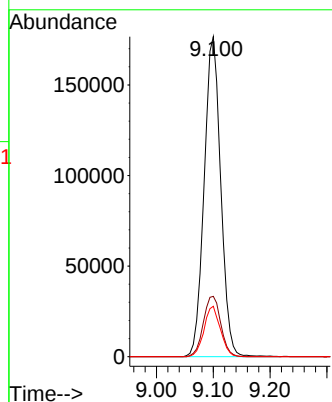
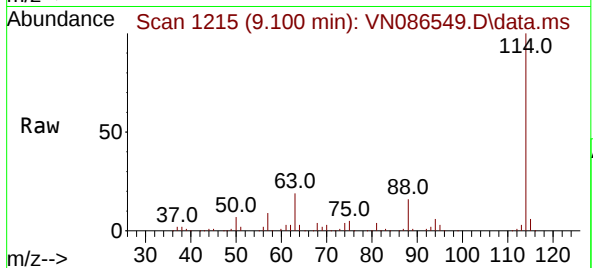
Tgt Ion:114 Resp: 357491

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.6

88 15.8 0.0 31.8



#35

Dibromofluoromethane

Concen: 61.022 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086549.D

Acq: 08 May 2025 16:37

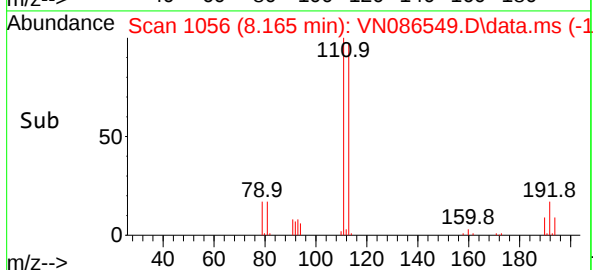
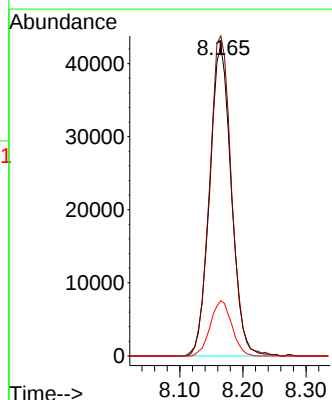
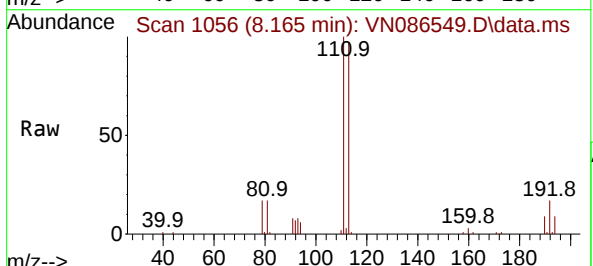
Tgt Ion:113 Resp: 101245

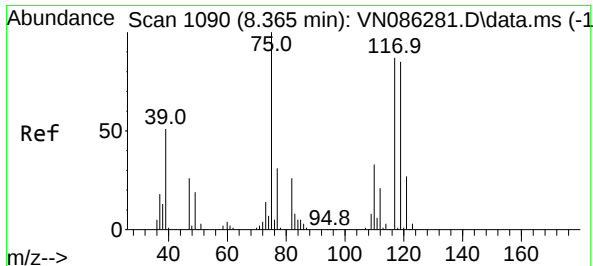
Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.0

192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.622 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086549.D

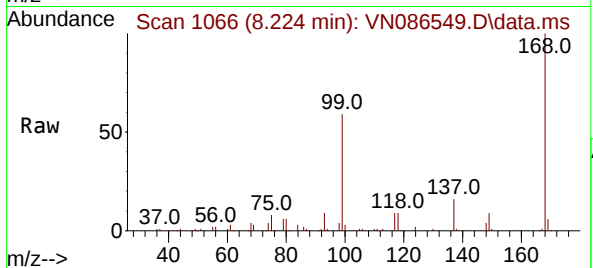
Acq: 08 May 2025 16:37

Instrument :

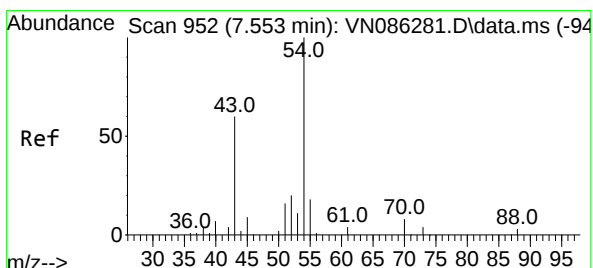
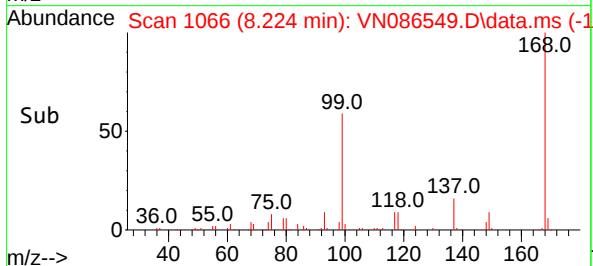
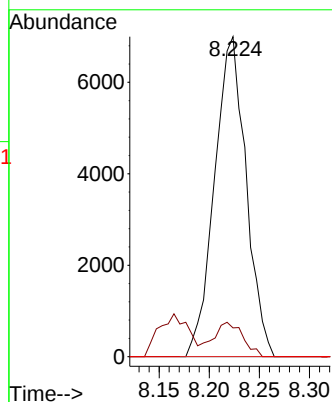
MSVOA_N

ClientSampleId :

PB167895ZHE#07



Tgt Ion:	75	Resp:	15316
Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.8	50.4#
77	0.0	24.9	37.3#



#37

Ethyl Acetate

Concen: 1.473 ug/l

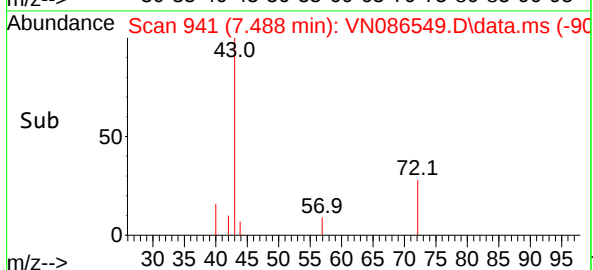
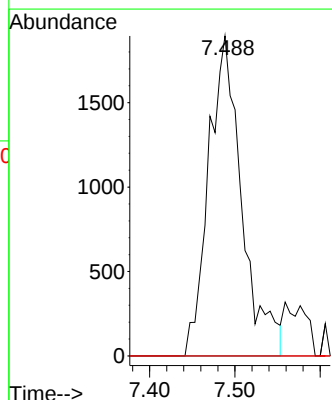
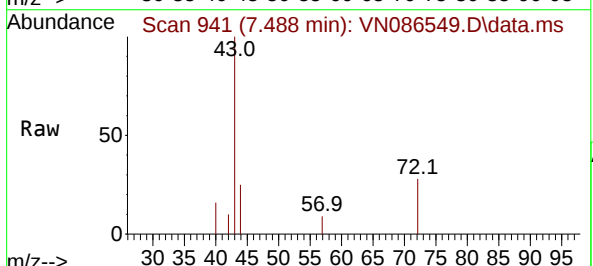
RT: 7.488 min Scan# 941

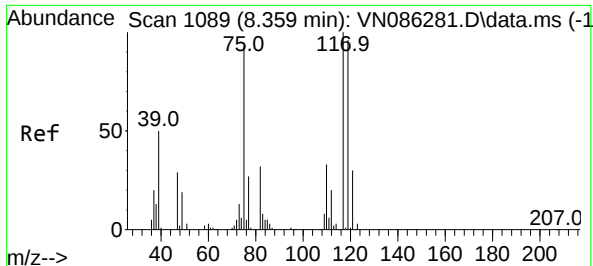
Delta R.T. -0.065 min

Lab File: VN086549.D

Acq: 08 May 2025 16:37

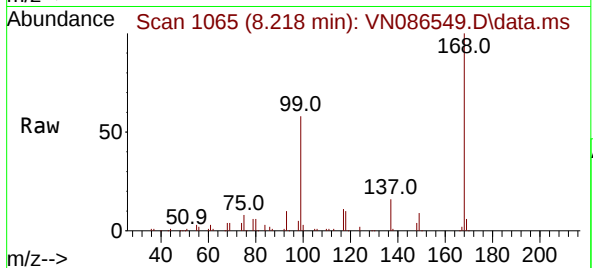
Tgt Ion:	43	Resp:	5139
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	9.2	13.8#



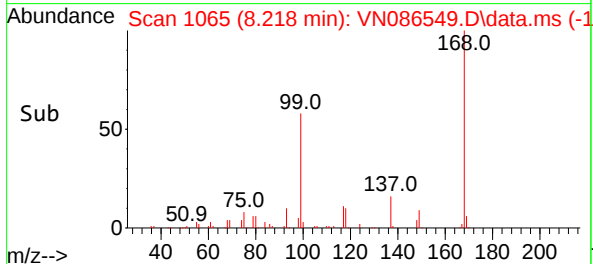
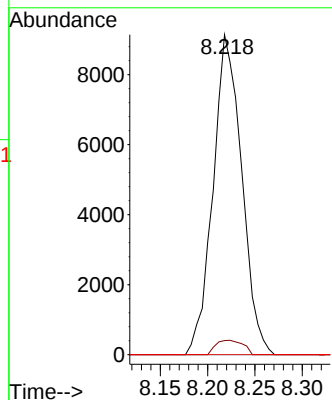


#38
Carbon Tetrachloride
Concen: 6.108 ug/l
RT: 8.218 min Scan# 110
Delta R.T. -0.141 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

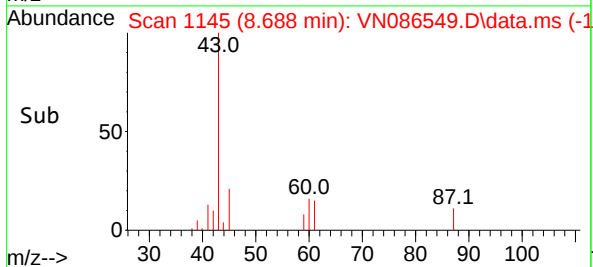
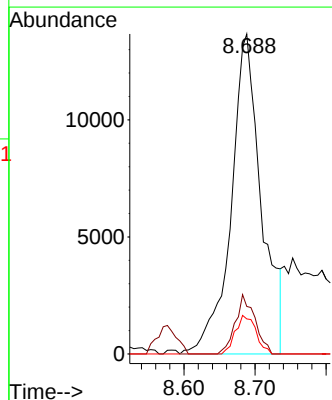
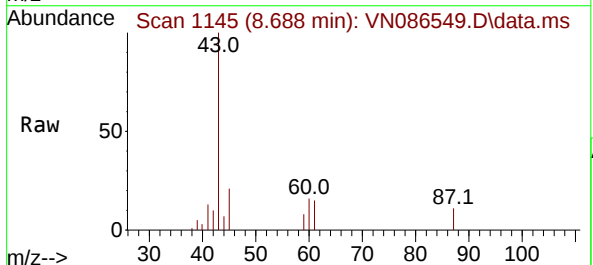


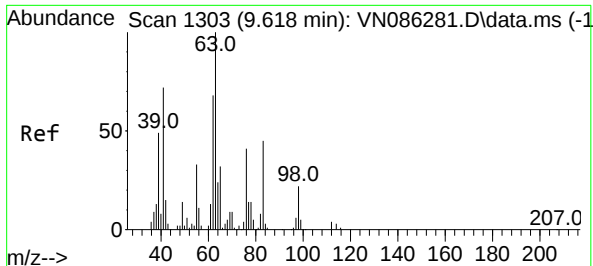
Tgt Ion:117 Resp: 19277
Ion Ratio Lower Upper
117 100
119 4.4 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 4.686 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 43 Resp: 40492
Ion Ratio Lower Upper
43 100
61 12.1 20.5 30.7#
87 8.1 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.364 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086549.D

Acq: 08 May 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

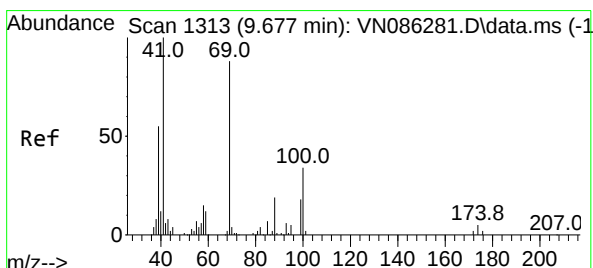
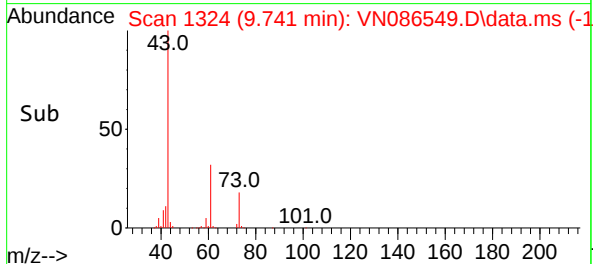
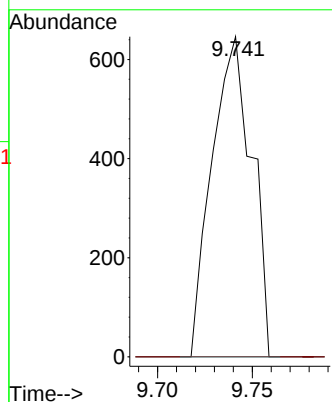
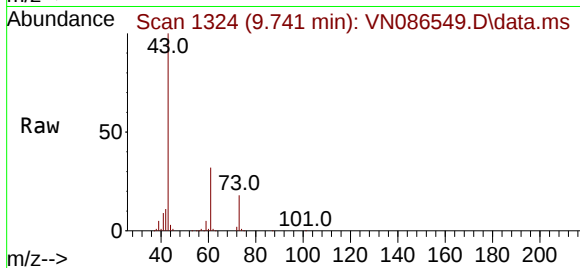
PB167895ZHE#07

Tgt Ion: 63 Resp: 945

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 23.824 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086549.D

Acq: 08 May 2025 16:37

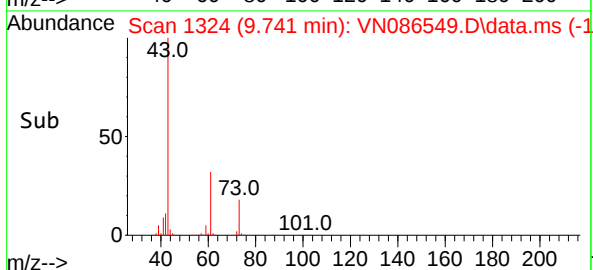
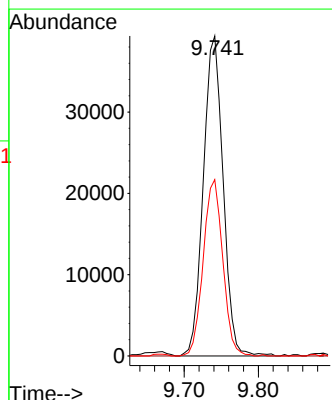
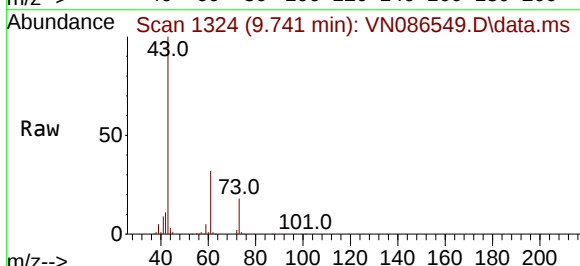
Tgt Ion: 41 Resp: 72993

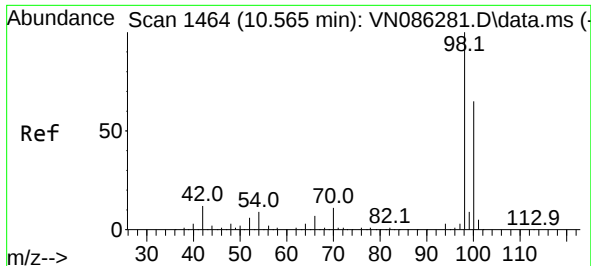
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.4 45.2 67.8

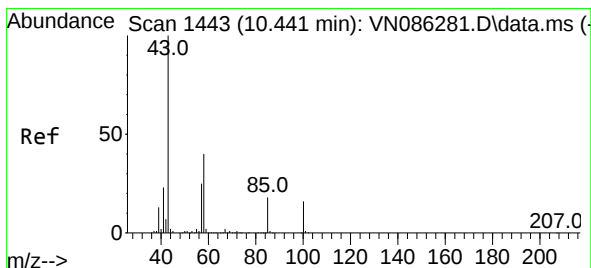
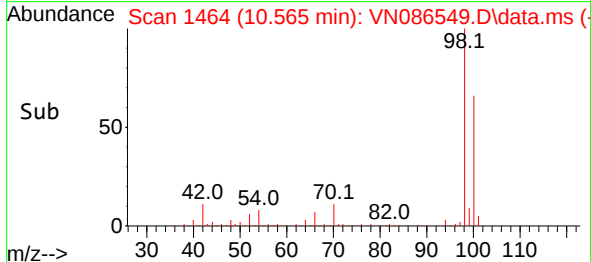
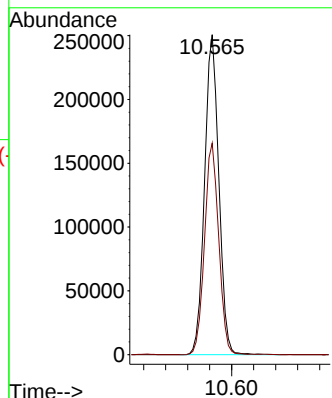
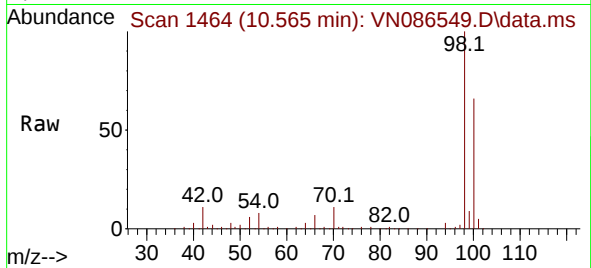




#50
Toluene-d8
Concen: 50.789 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

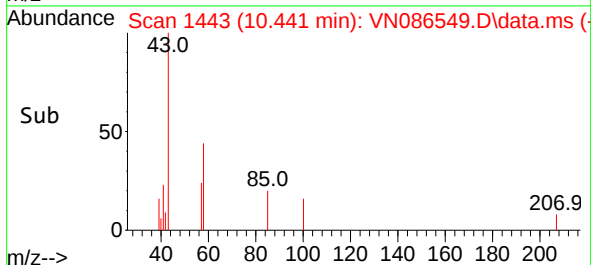
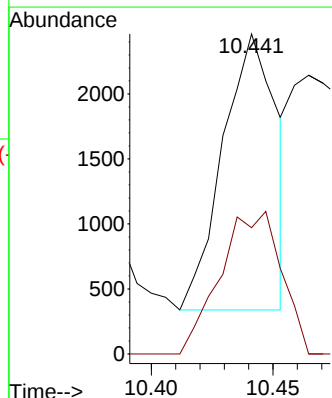
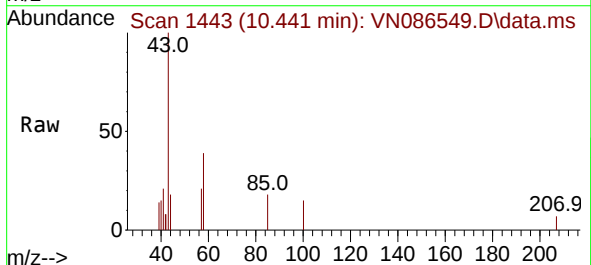
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

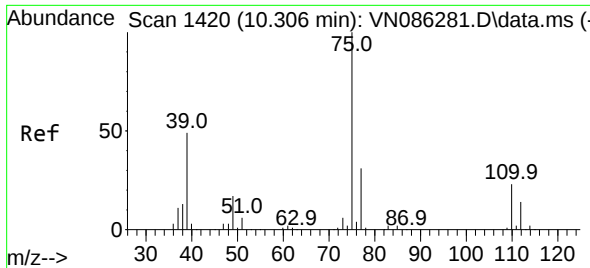
Tgt Ion: 98 Resp: 450365
Ion Ratio Lower Upper
98 100
100 66.0 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.911 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 43 Resp: 3254
Ion Ratio Lower Upper
43 100
58 58.7 32.2 48.4#

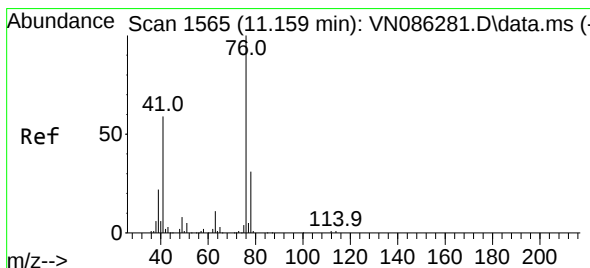
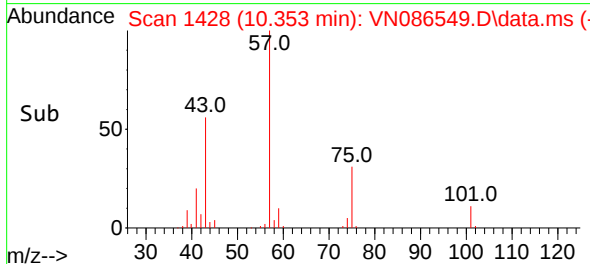
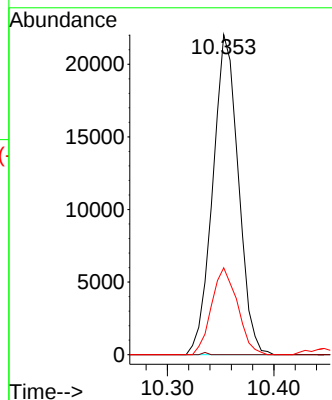
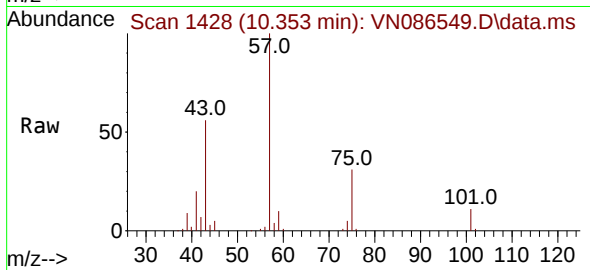




#54
cis-1,3-Dichloropropene
Concen: 8.371 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

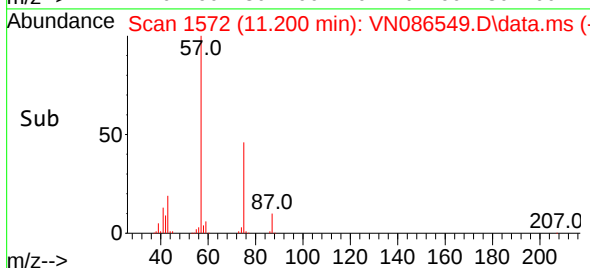
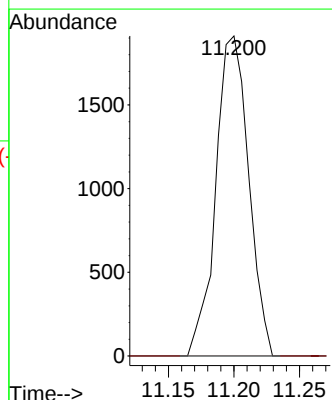
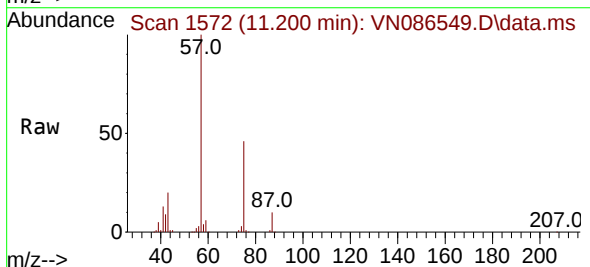
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

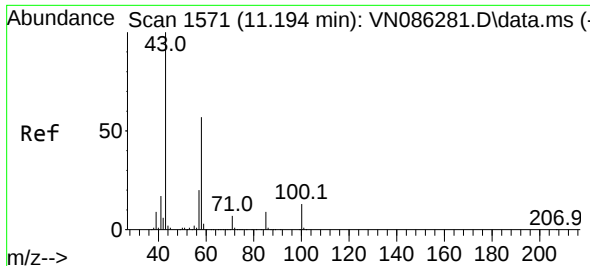
Tgt Ion: 75 Resp: 36707
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 27.1 39.3 58.9#



#57
1,3-Dichloropropane
Concen: 0.788 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 76 Resp: 3333
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

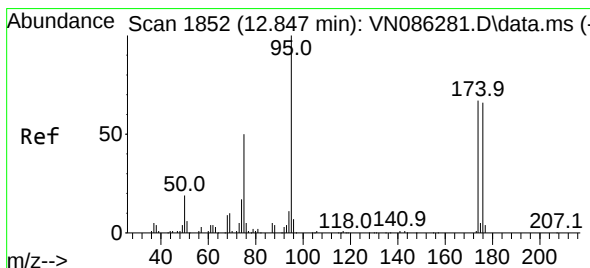
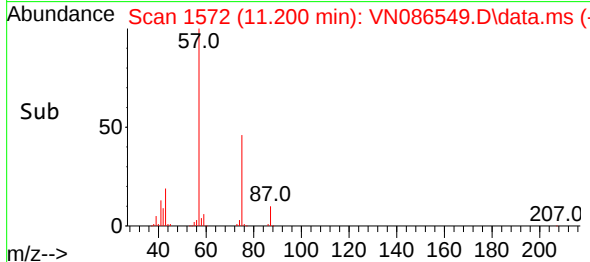
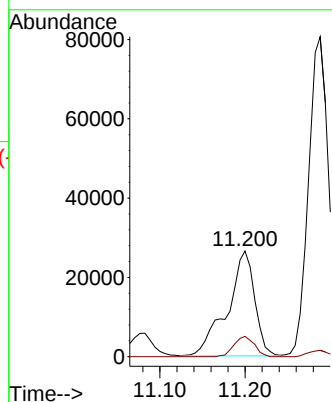
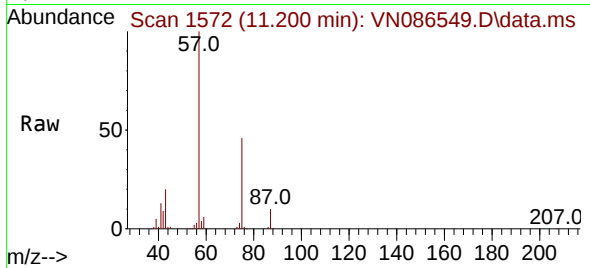




#59
2-Hexanone
Concen: 22.338 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

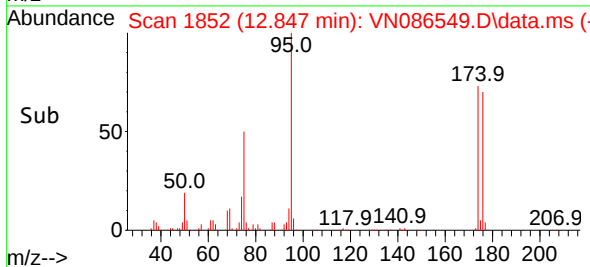
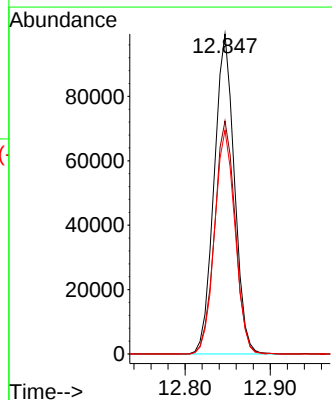
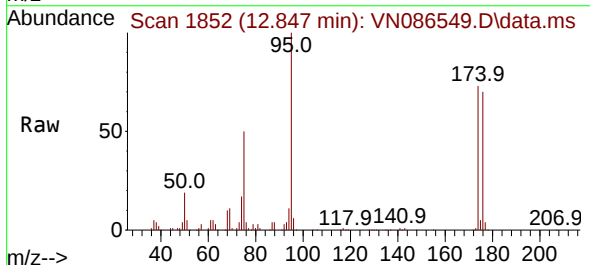
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

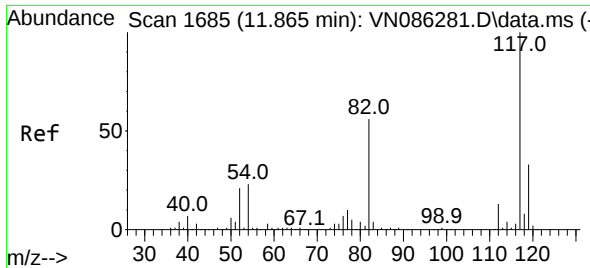
Tgt Ion: 43 Resp: 59195
Ion Ratio Lower Upper
43 100
58 14.4 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.627 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion: 95 Resp: 163743
Ion Ratio Lower Upper
95 100
174 74.1 0.0 133.4
176 70.7 0.0 129.2

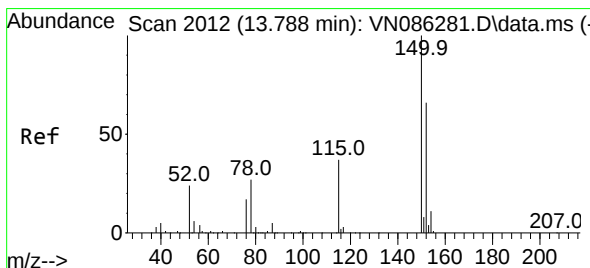
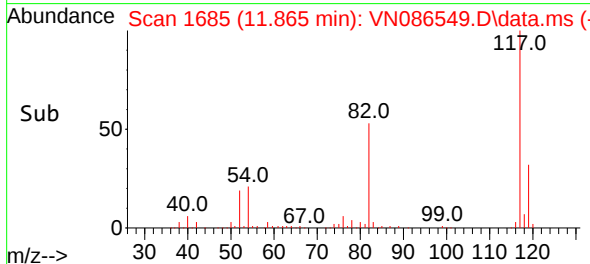
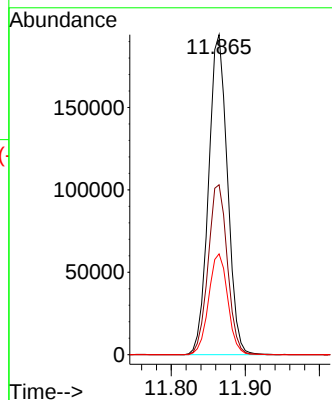
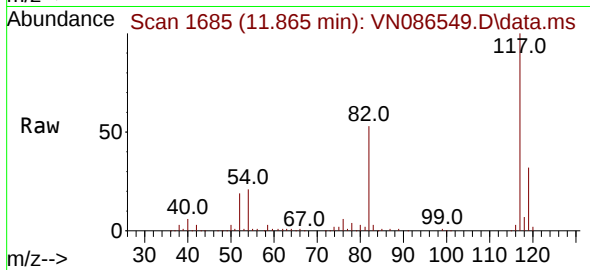




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

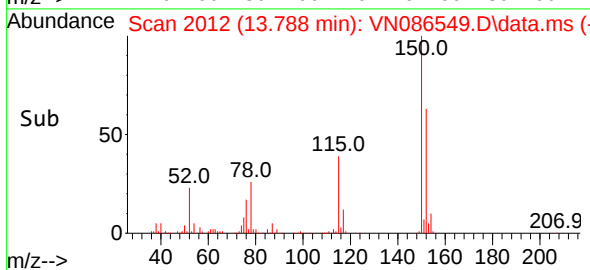
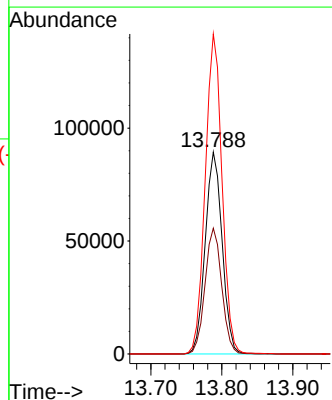
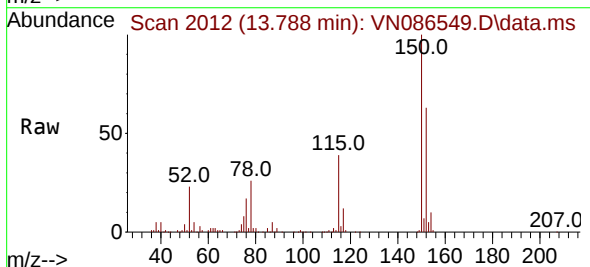
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

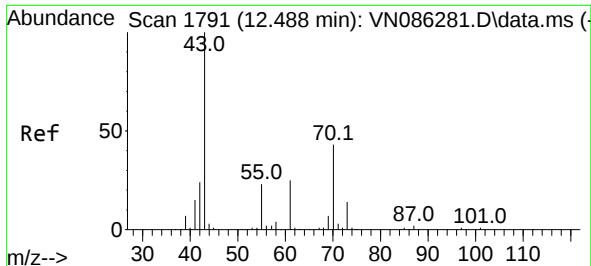
Tgt Ion:117 Resp: 343484
Ion Ratio Lower Upper
117 100
82 53.1 44.7 67.1
119 31.5 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

Tgt Ion:152 Resp: 148134
Ion Ratio Lower Upper
152 100
115 61.6 31.9 95.9
150 157.3 0.0 352.0

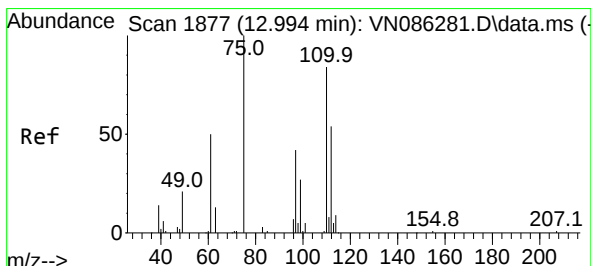
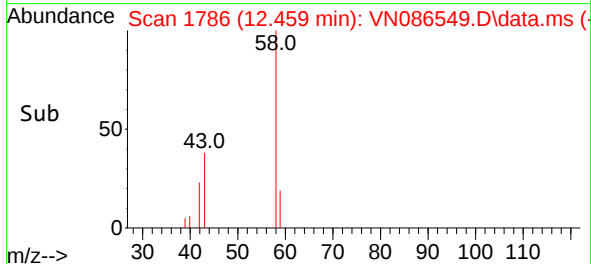
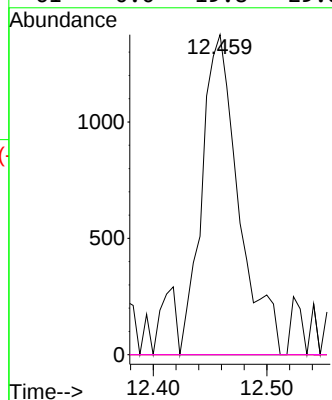
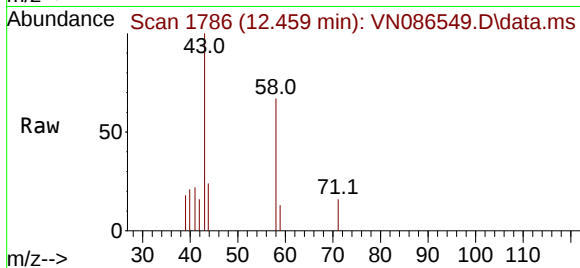




#74
N-amy1 acetate
Concen: 0.515 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

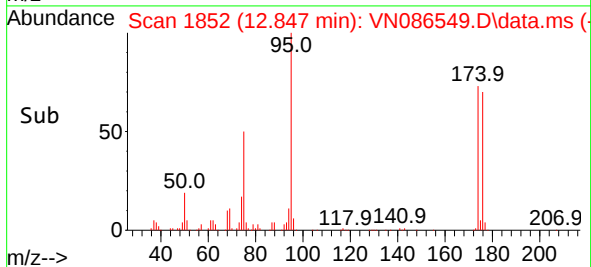
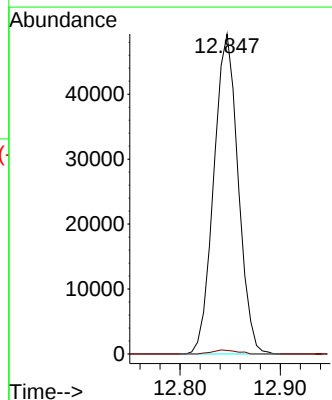
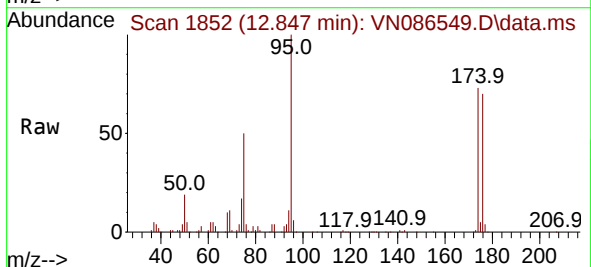
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#07

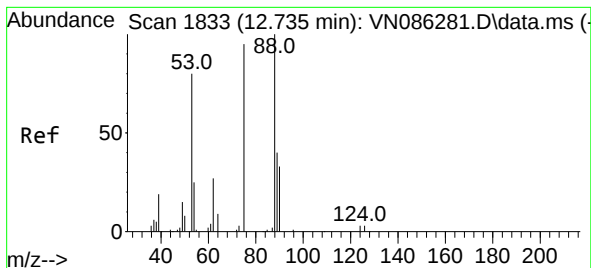
Tgt Ion: 43	Resp: 3105
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 0.0	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 23.752 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086549.D
Acq: 08 May 2025 16:37

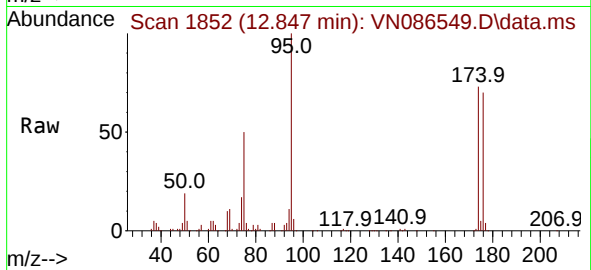
Tgt Ion: 75	Resp:	83031	
Ion Ratio	Lower	Upper	
75 100			
77 1.3	98.8	296.4#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.044 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086549.D
 Acq: 08 May 2025 16:37

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#07



Tgt Ion: 75 Resp: 83031
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

