

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086576.D
 Acq On : 12 May 2025 13:16
 Operator : JC\MD
 Sample : PB167932ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#01

Quant Time: May 13 01:50:53 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	192822	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	355849	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	347292	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146313	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130485	46.667	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.340%		
35) Dibromofluoromethane	8.165	113	105247	63.727	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	127.460%#		
50) Toluene-d8	10.565	98	460481	52.169	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	104.340%		
62) 4-Bromofluorobenzene	12.847	95	165095	51.281	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.560%		
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	1171	0.352	ug/l	96
5) Bromomethane	2.965	94	537	0.377	ug/l #	72
10) Methyl Iodide	4.594	142	544	0.233	ug/l #	42
16) Acetone	4.430	43	26938	22.676	ug/l	91
17) Carbon Disulfide	4.706	76	1427	0.210	ug/l #	74
18) Methyl Acetate	5.024	43	2407	0.717	ug/l #	84
20) Methylene Chloride	5.277	84	3855	1.491	ug/l #	90
25) 2-Butanone	7.488	43	4748	2.728	ug/l	94
29) Tetrahydrofuran	7.841	42	563	0.484	ug/l #	42
31) Cyclohexane	8.224	56	4148	0.915	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15679	4.753	ug/l #	49
38) Carbon Tetrachloride	8.224	117	19444	6.190	ug/l #	16
43) Isopropyl Acetate	8.682	43	26389	2.417	ug/l #	86
45) 1,2-Dichloropropane	9.735	63	937	0.362	ug/l #	43
48) Methyl methacrylate	9.735	41	70951	23.265	ug/l #	42
51) 4-Methyl-2-Pentanone	10.453	43	4403	1.238	ug/l	91
54) cis-1,3-Dichloropropene	10.353	75	35388	8.107	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3096	0.735	ug/l #	43
59) 2-Hexanone	11.200	43	59898	22.708	ug/l #	43
71) Bromoform	12.847	173	860	0.447	ug/l #	1
74) N-amyl acetate	12.453	43	2769	0.465	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	82417	23.870	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	82417	57.326	ug/l #	10
94) Hexachlorobutadiene	15.494	225	186	0.213	ug/l #	18
95) Naphthalene	15.629	128	2099	0.256	ug/l #	74

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

Quant Time: May 13 01:50:53 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

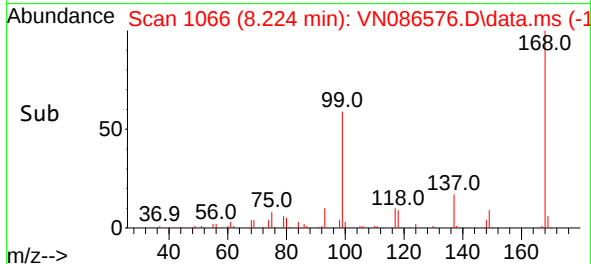
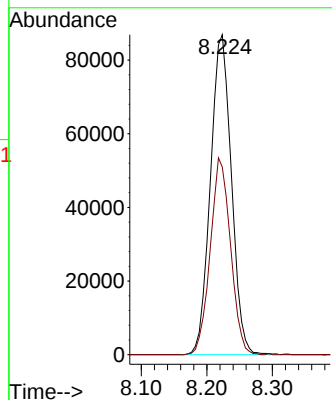
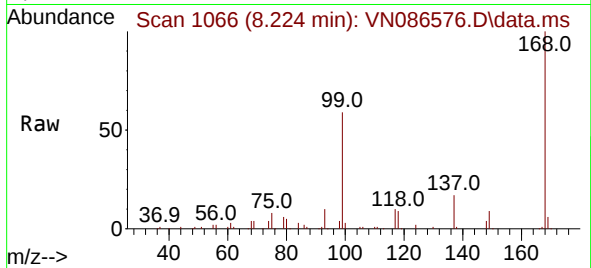




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

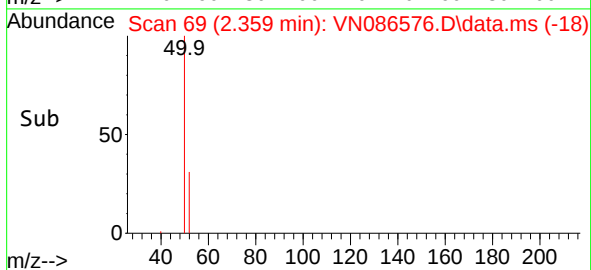
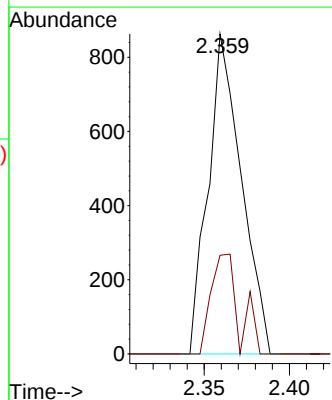
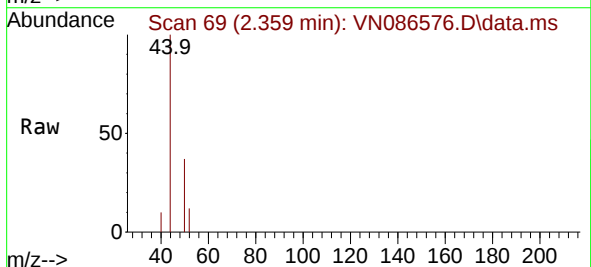
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

Tgt Ion:168 Resp: 192822
Ion Ratio Lower Upper
168 100
99 58.6 52.5 78.7



#3
Chloromethane
Concen: 0.352 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 50 Resp: 1171
Ion Ratio Lower Upper
50 100
52 30.8 26.5 39.7

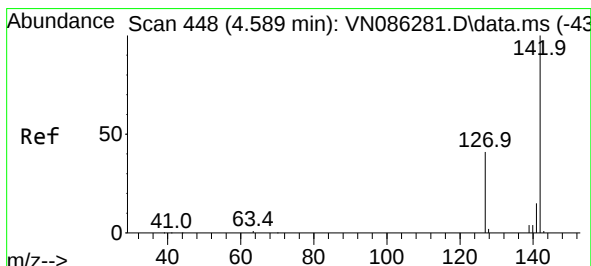
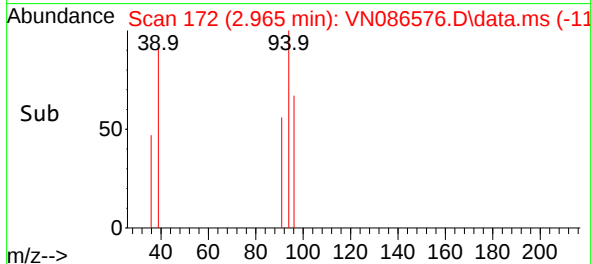
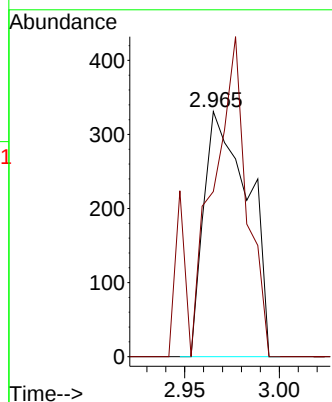
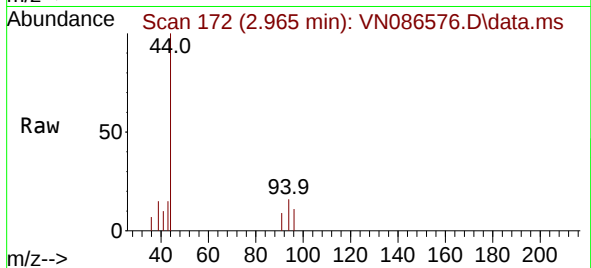




#5
Bromomethane
Concen: 0.377 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

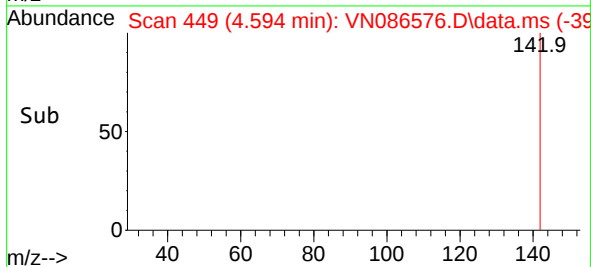
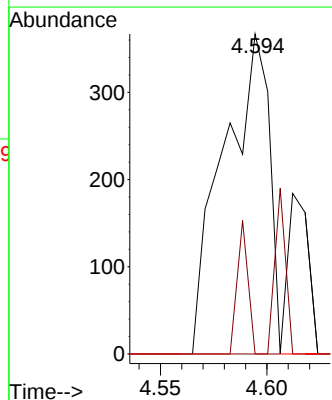
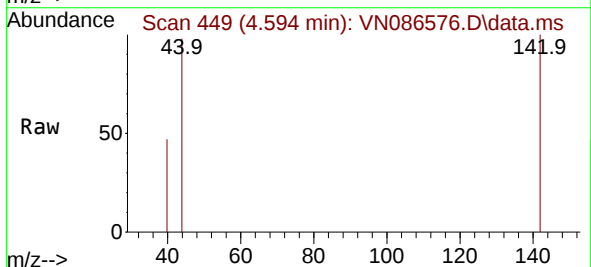
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

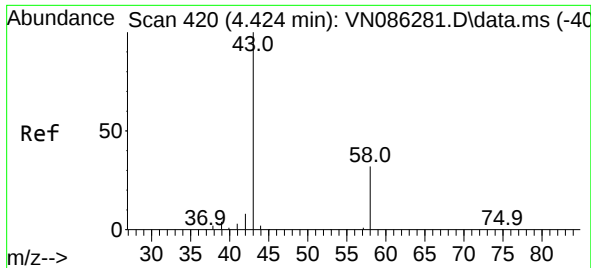
Tgt Ion: 94 Resp: 537
Ion Ratio Lower Upper
94 100
96 67.4 75.2 112.8#



#10
Methyl Iodide
Concen: 0.233 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion:142 Resp: 544
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.7 17.5#

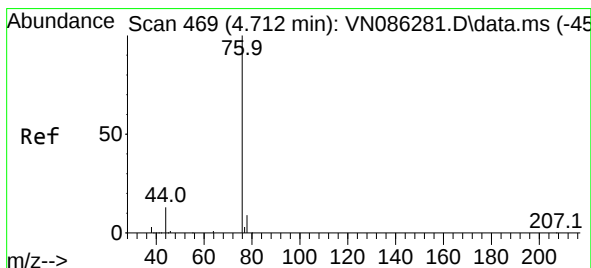
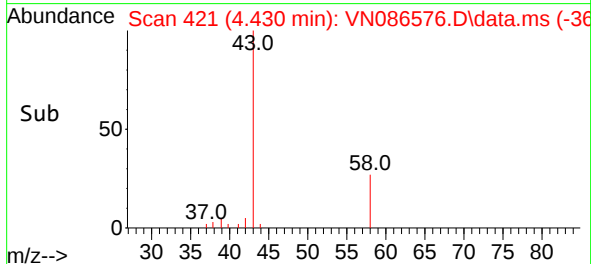
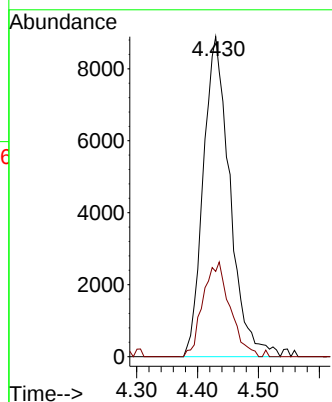
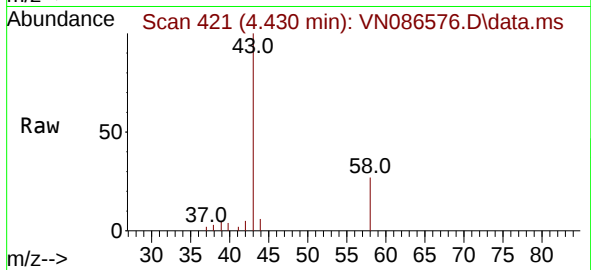




#16
Acetone
Concen: 22.676 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

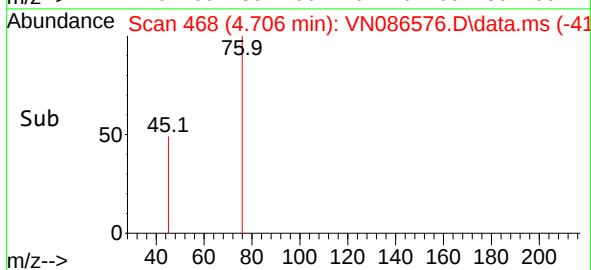
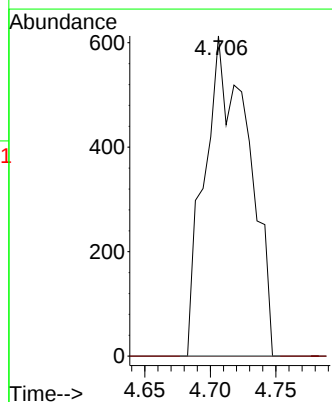
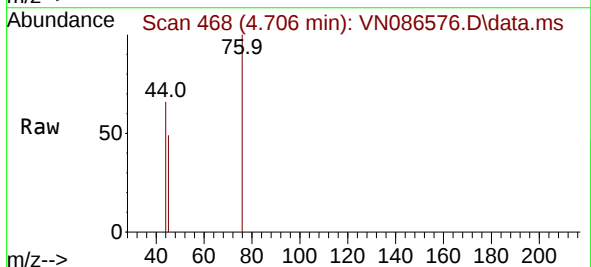
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

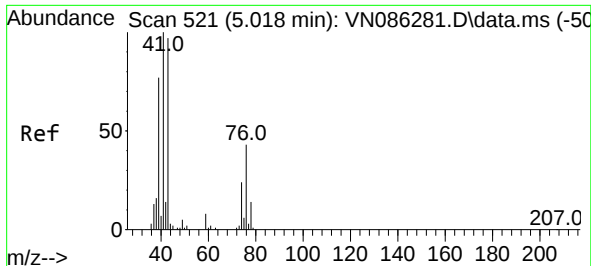
Tgt Ion: 43 Resp: 26938
Ion Ratio Lower Upper
43 100
58 26.6 25.3 37.9



#17
Carbon Disulfide
Concen: 0.210 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 76 Resp: 1427
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

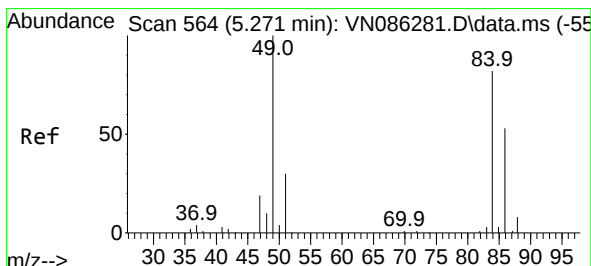
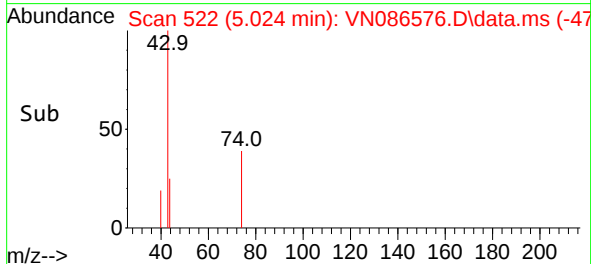
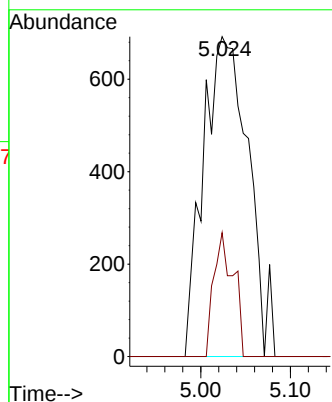
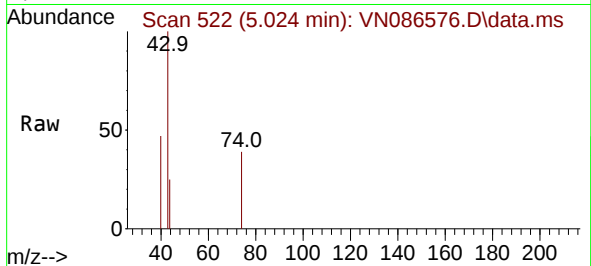




#18
Methyl Acetate
Concen: 0.717 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

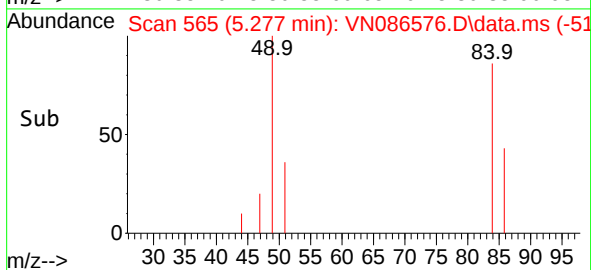
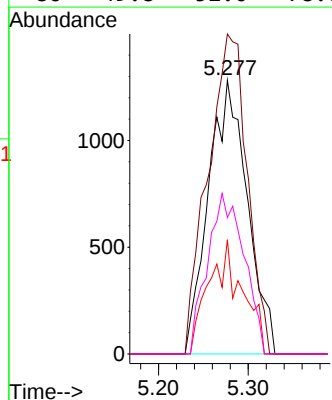
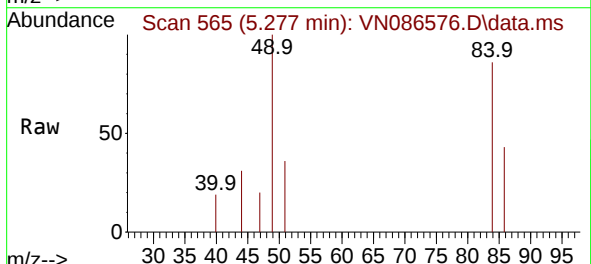
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

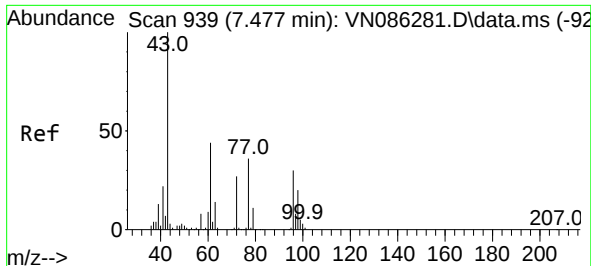
Tgt Ion: 43 Resp: 2407
Ion Ratio Lower Upper
43 100
74 17.0 19.8 29.6#



#20
Methylene Chloride
Concen: 1.491 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

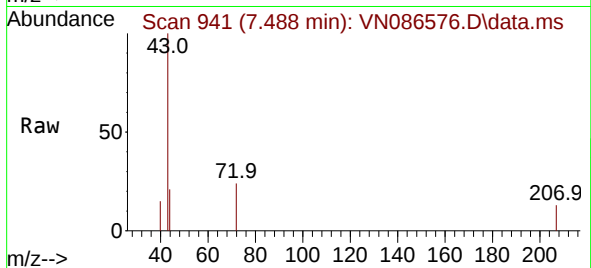
Tgt Ion: 84 Resp: 3855
Ion Ratio Lower Upper
84 100
49 116.9 98.2 147.2
51 41.7 29.8 44.6
86 49.8 52.0 78.0#



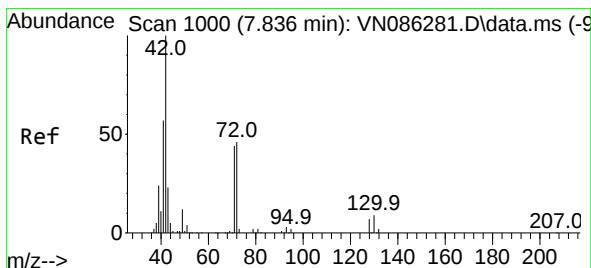
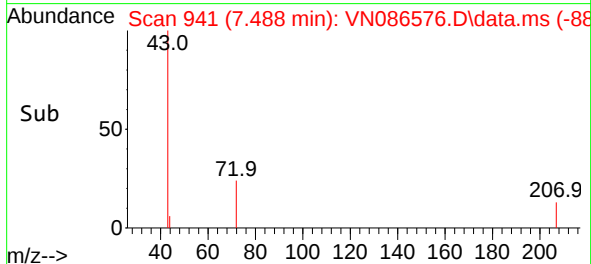
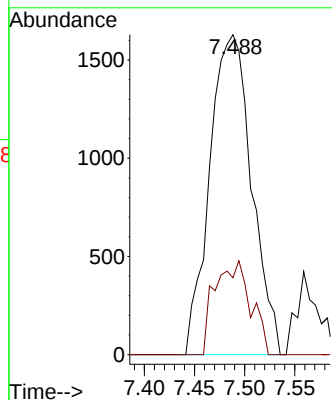


#25
2-Butanone
Concen: 2.728 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

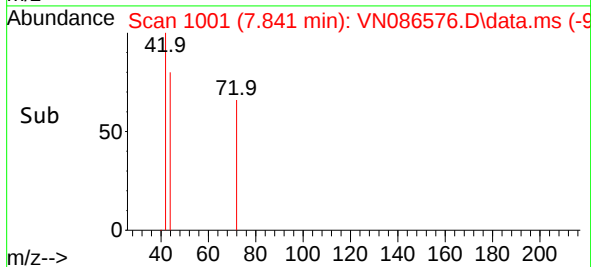
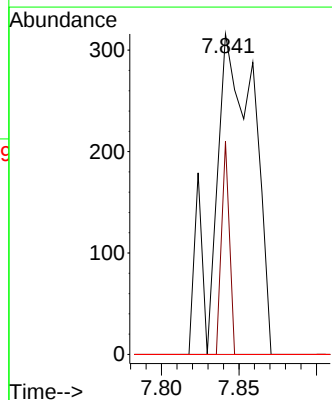
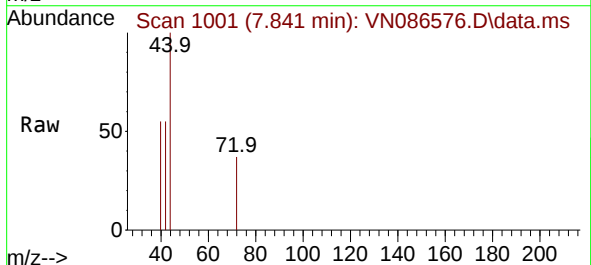


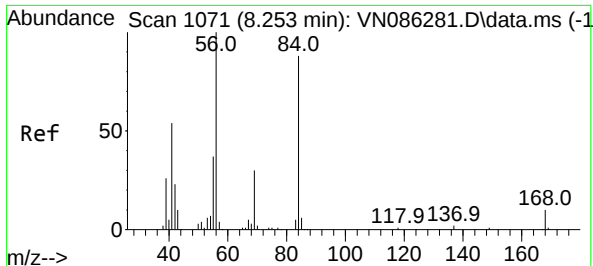
Tgt Ion: 43 Resp: 4748
Ion Ratio Lower Upper
43 100
72 24.1 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.484 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

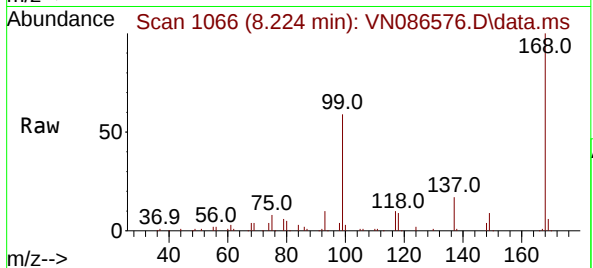
Tgt Ion: 42 Resp: 563
Ion Ratio Lower Upper
42 100
72 13.1 36.2 54.4#
71 0.0 34.0 51.0#



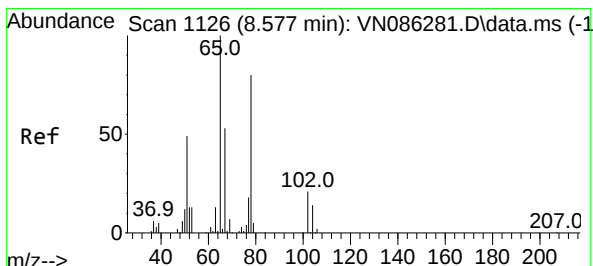
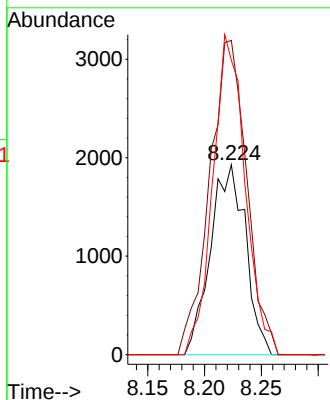
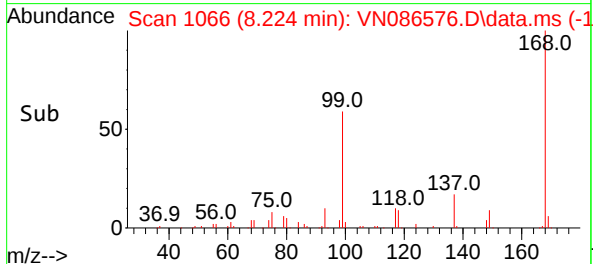


#31
Cyclohexane
Concen: 0.915 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Instrument :
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ClientSampleId :
PB167932ZHE#01

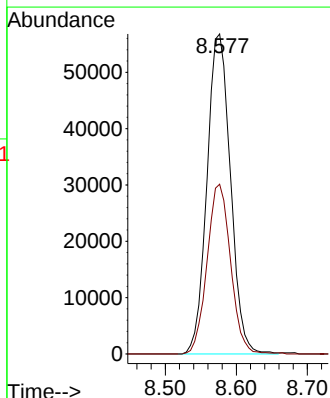
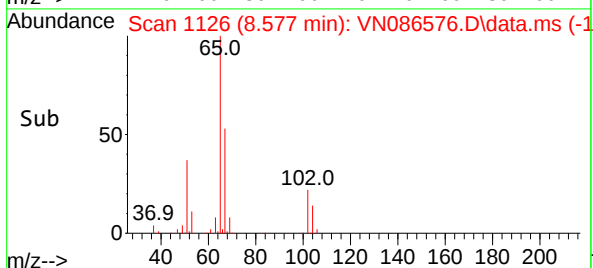
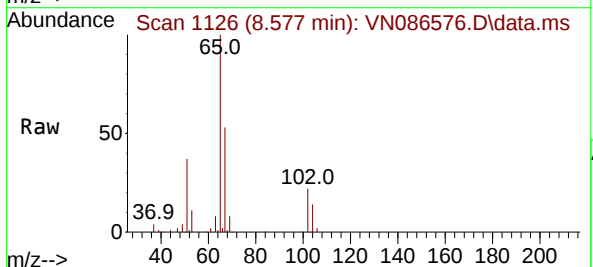


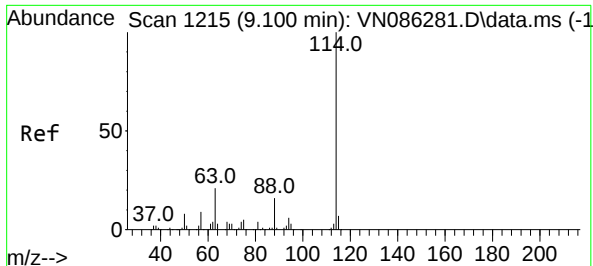
Tgt Ion: 56 Resp: 4148
Ion Ratio Lower Upper
56 100
69 165.6 24.2 36.2#
84 155.1 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 46.667 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 65 Resp: 130485
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.0

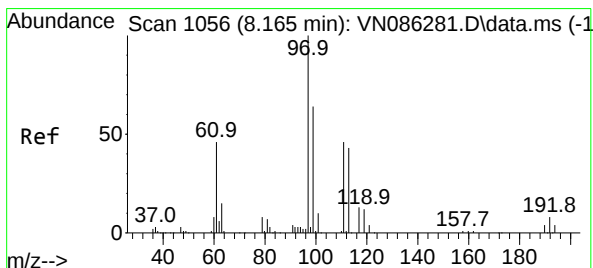
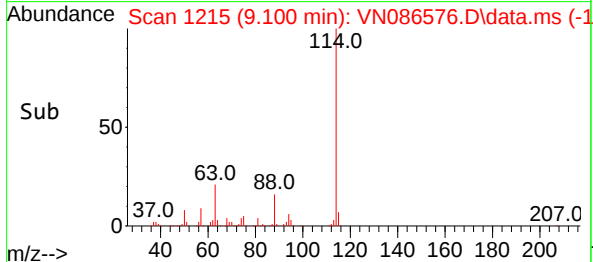
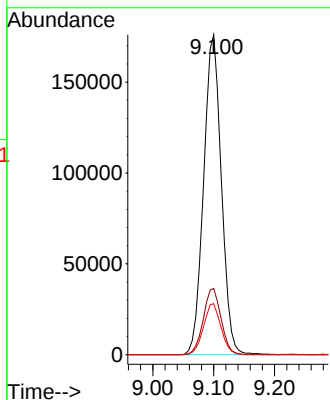
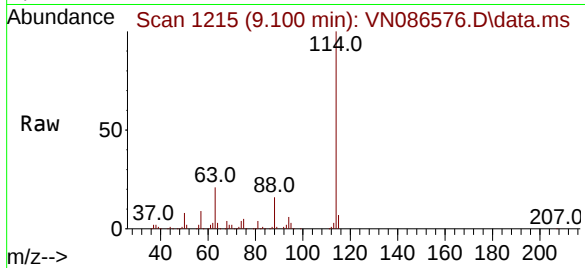




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

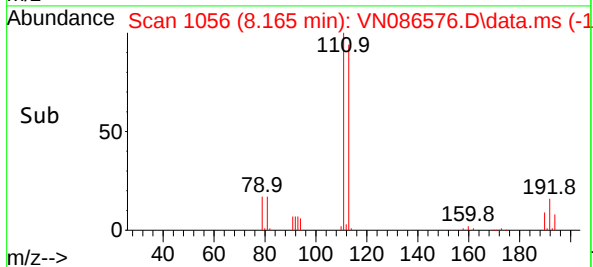
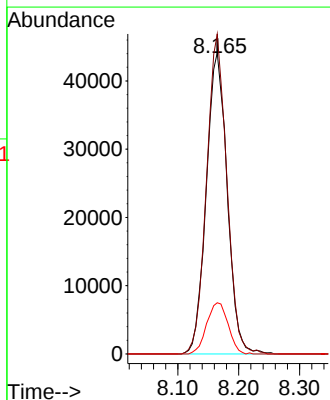
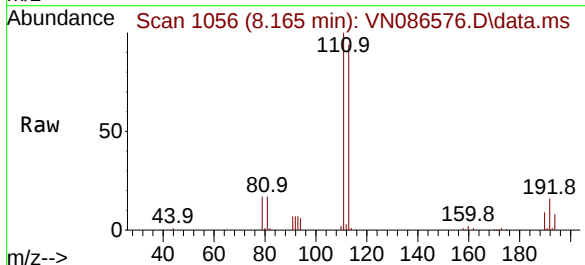
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

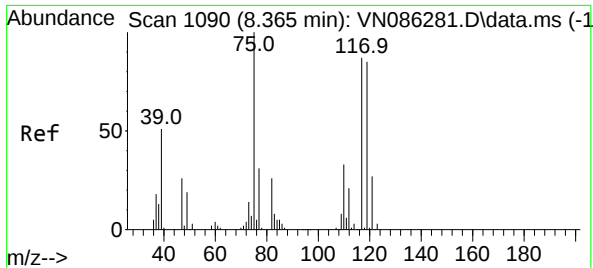
Tgt Ion:114 Resp: 355849
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.6
88 16.0 0.0 31.8



#35
Dibromofluoromethane
Concen: 63.727 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion:113 Resp: 105247
Ion Ratio Lower Upper
113 100
111 103.0 83.4 125.0
192 17.4 13.7 20.5

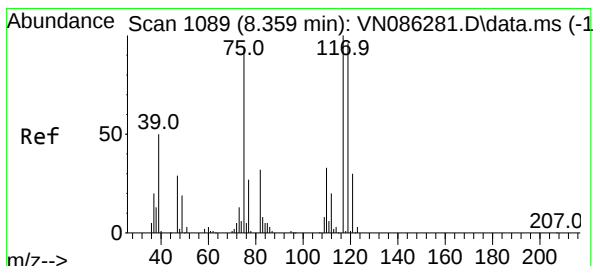
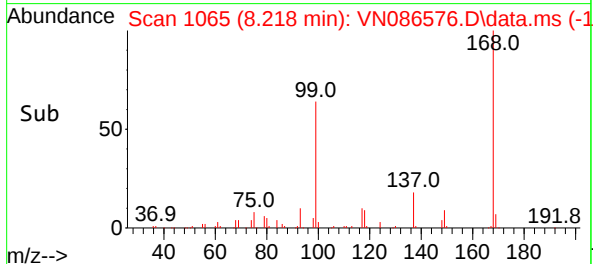
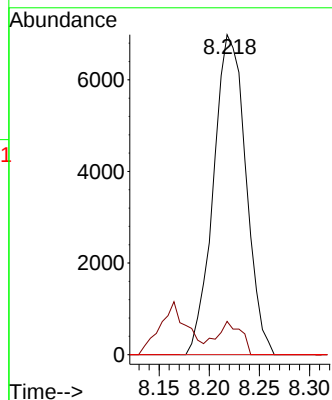
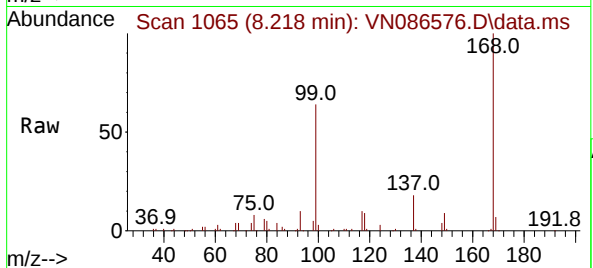




#36
 1,1-Dichloropropene
 Concen: 4.753 ug/l
 RT: 8.218 min Scan# 1065
 Delta R.T. -0.147 min
 Lab File: VN086576.D
 Acq: 12 May 2025 13:16

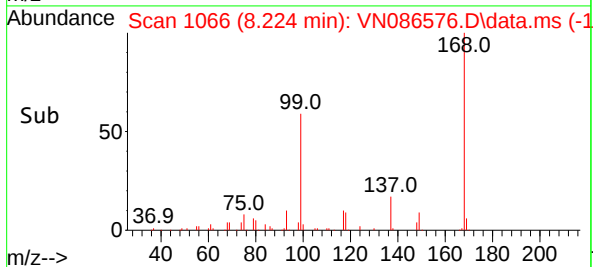
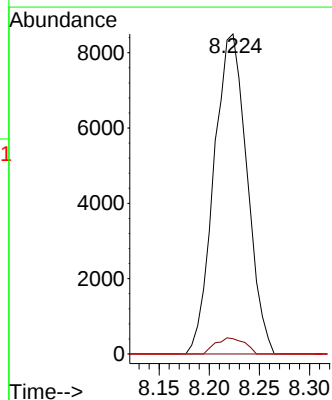
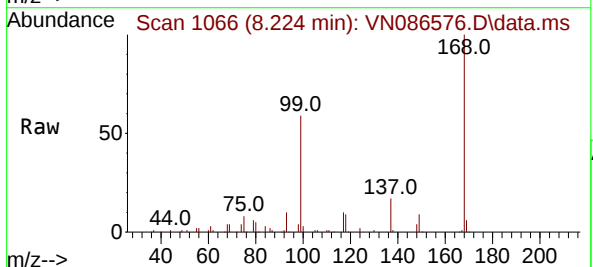
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#01

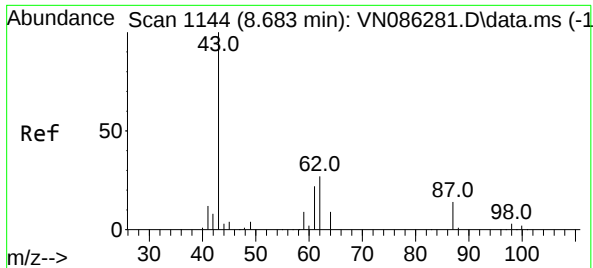
Tgt Ion: 75 Resp: 15679
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.8 50.4#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.190 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.135 min
 Lab File: VN086576.D
 Acq: 12 May 2025 13:16

Tgt Ion: 117 Resp: 19444
 Ion Ratio Lower Upper
 117 100
 119 4.7 76.8 115.2#
 121 0.0 23.8 35.8#

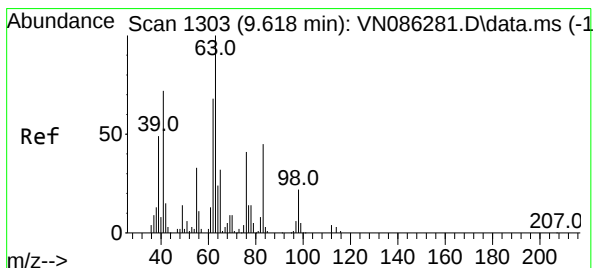
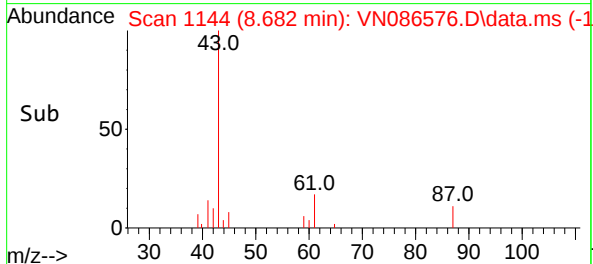
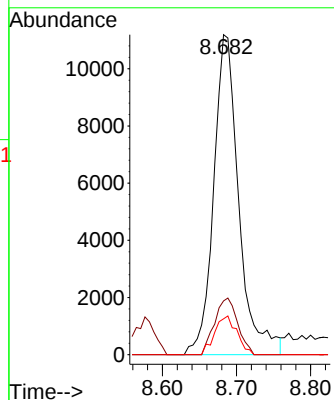
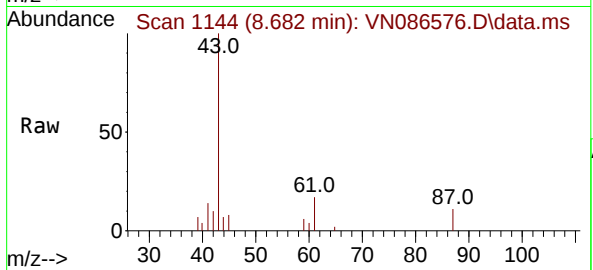




#43
Isopropyl Acetate
Concen: 2.417 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

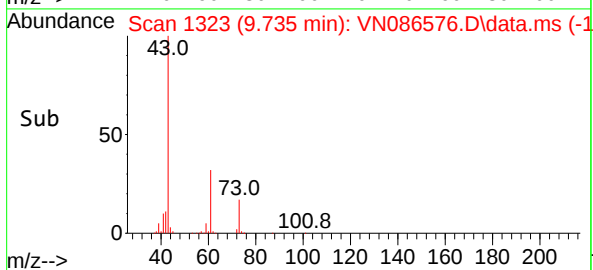
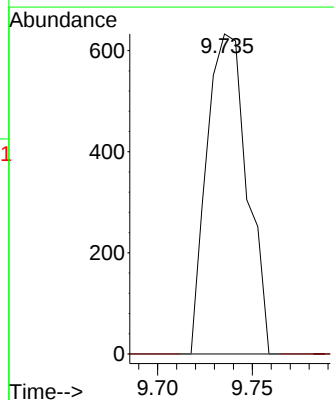
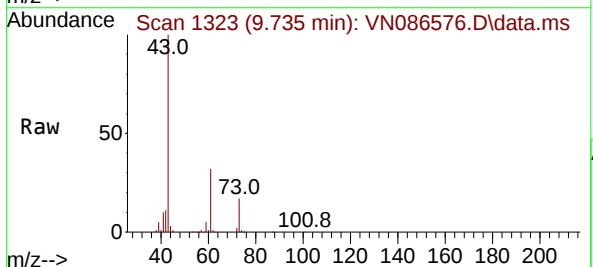
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

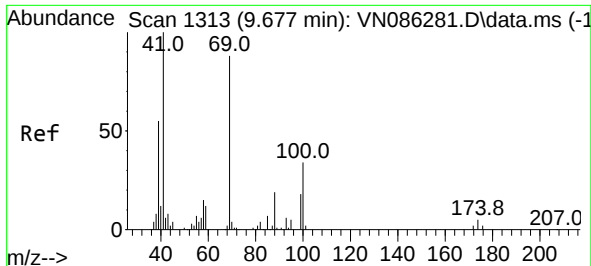
Tgt Ion: 43 Resp: 26389
Ion Ratio Lower Upper
43 100
61 16.2 20.5 30.7#
87 10.7 10.5 15.7



#45
1,2-Dichloropropane
Concen: 0.362 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 63 Resp: 937
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

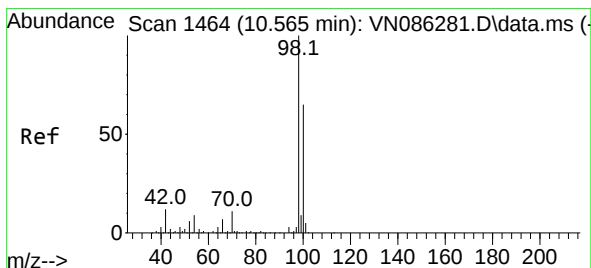
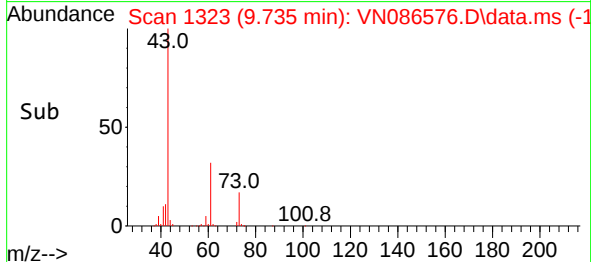
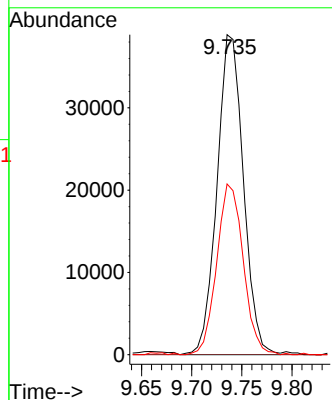
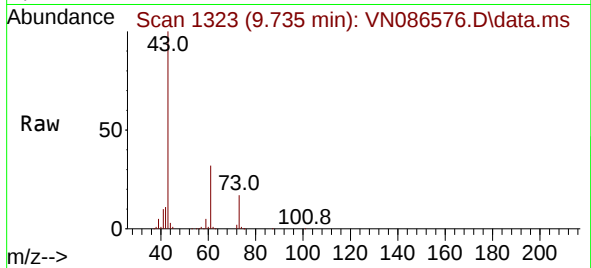




#48
Methyl methacrylate
Concen: 23.265 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

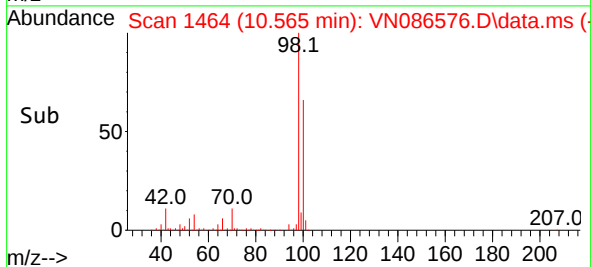
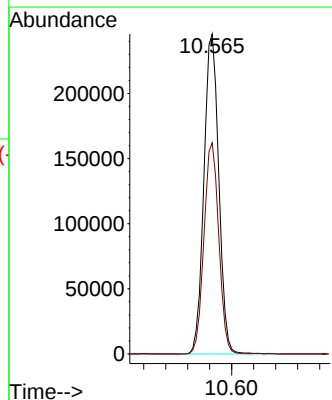
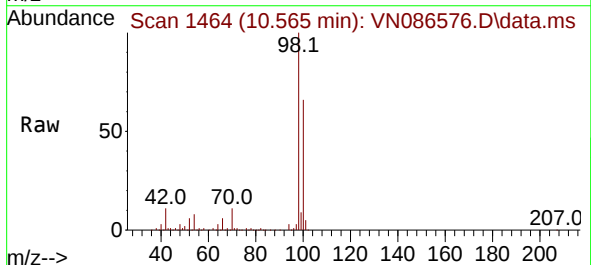
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

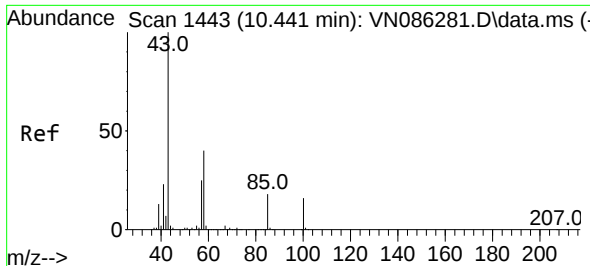
Tgt Ion: 41 Resp: 70951
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.7 45.2 67.8



#50
Toluene-d8
Concen: 52.169 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 98 Resp: 460481
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7

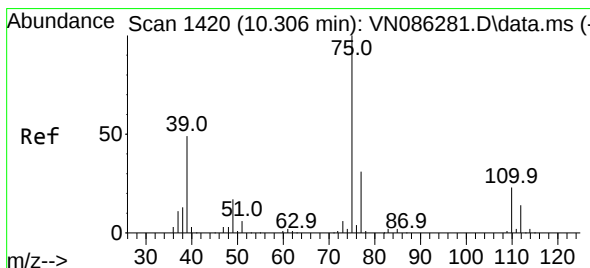
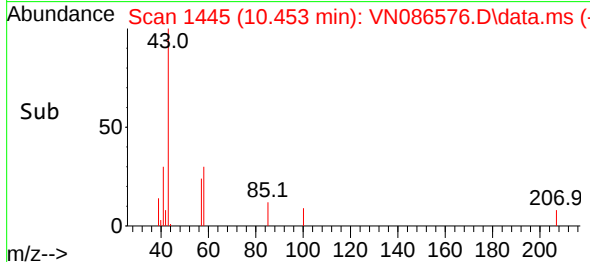
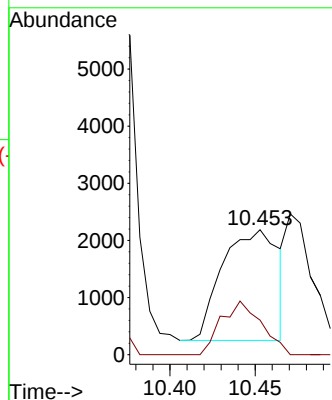
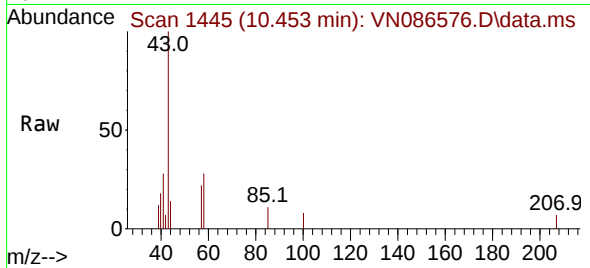




#51
4-Methyl-2-Pentanone
Concen: 1.238 ug/l
RT: 10.453 min Scan# 1443
Delta R.T. 0.012 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

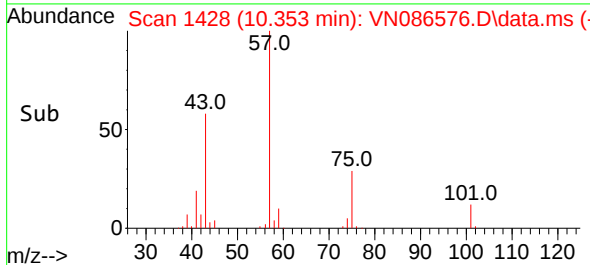
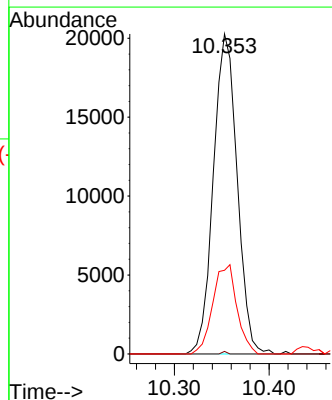
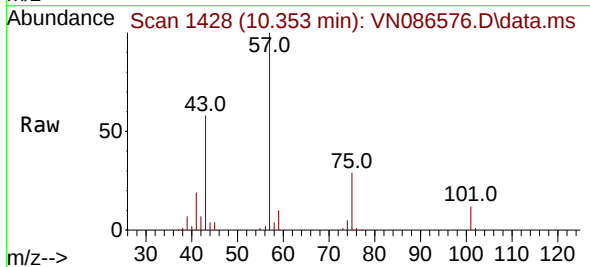
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

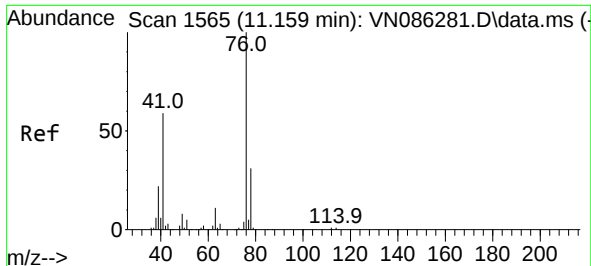
Tgt Ion: 43 Resp: 4403
Ion Ratio Lower Upper
43 100
58 35.0 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.107 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 75 Resp: 35388
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 26.2 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.735 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086576.D

Acq: 12 May 2025 13:16

Instrument :

MSVOA_N

ClientSampleId :

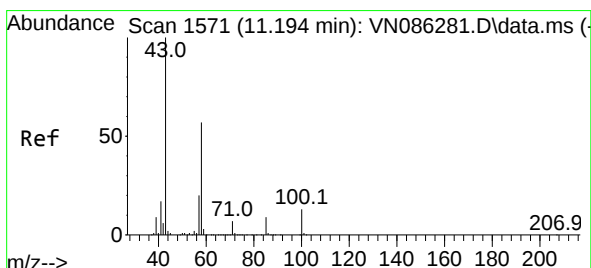
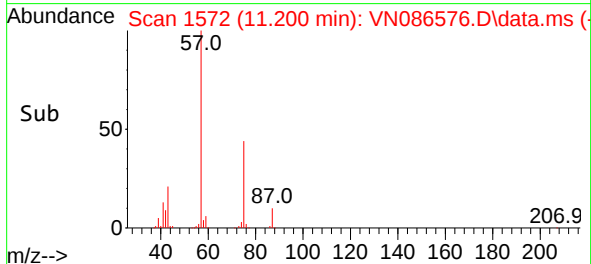
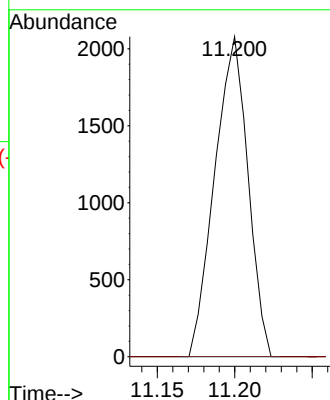
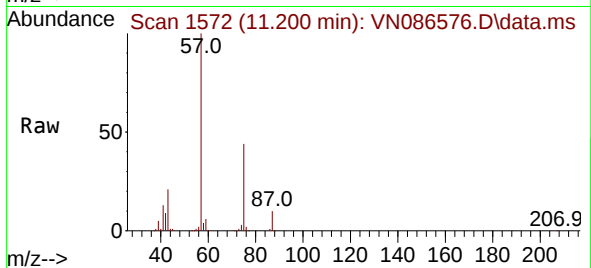
PB167932ZHE#01

Tgt Ion: 76 Resp: 3096

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.708 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086576.D

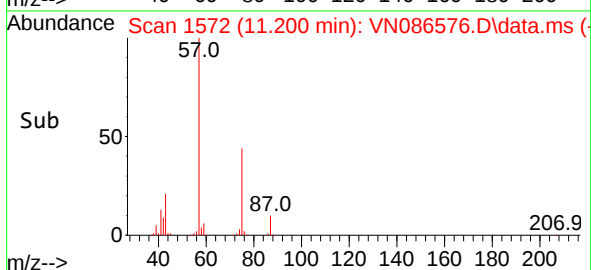
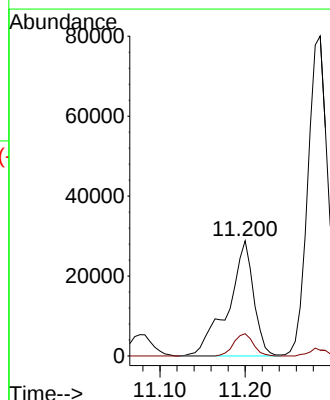
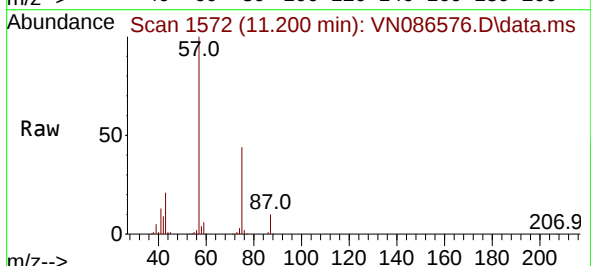
Acq: 12 May 2025 13:16

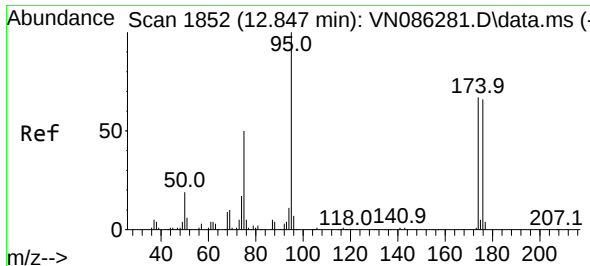
Tgt Ion: 43 Resp: 59898

Ion Ratio Lower Upper

43 100

58 14.9 28.3 85.0#

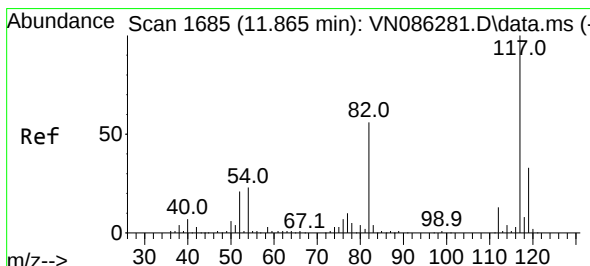
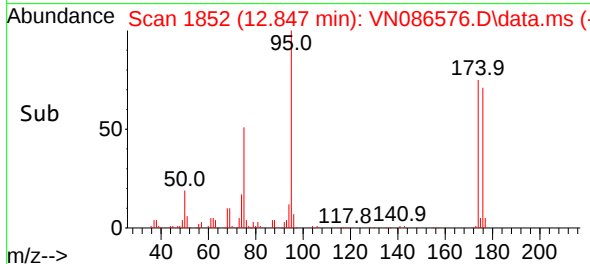
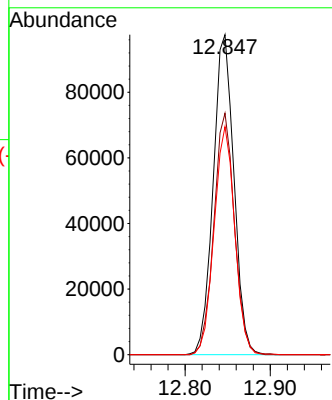
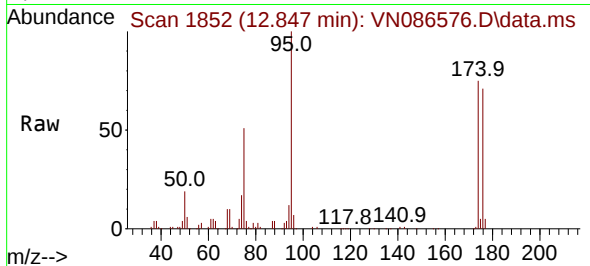




#62
4-Bromofluorobenzene
Concen: 51.281 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

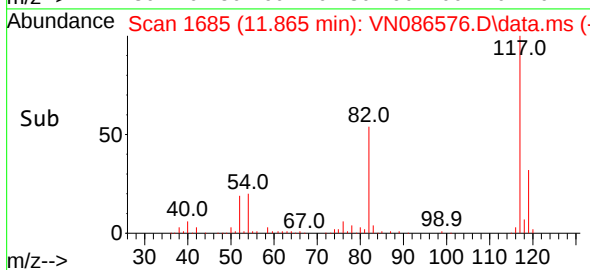
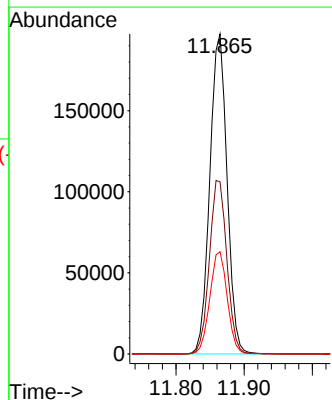
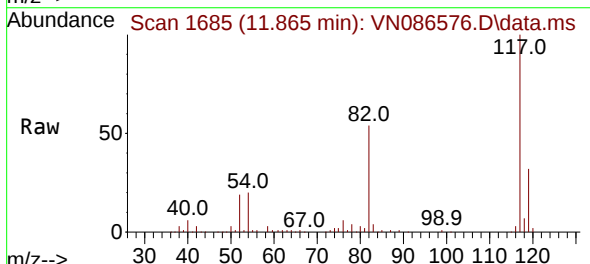
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

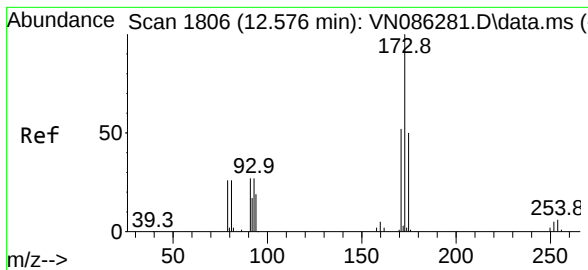
Tgt Ion: 95 Resp: 165095
Ion Ratio Lower Upper
95 100
174 74.6 0.0 133.4
176 70.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 117 Resp: 347292
Ion Ratio Lower Upper
117 100
82 53.8 44.7 67.1
119 31.9 26.4 39.6





#71

Bromoform

Concen: 0.447 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.270 min

Lab File: VN086576.D

Acq: 12 May 2025 13:16

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#01

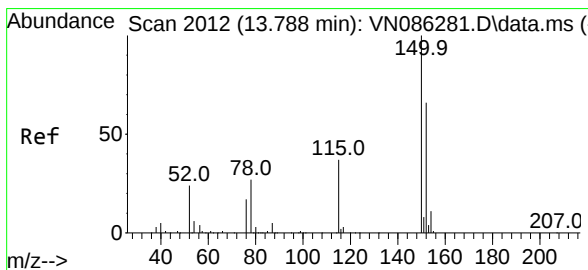
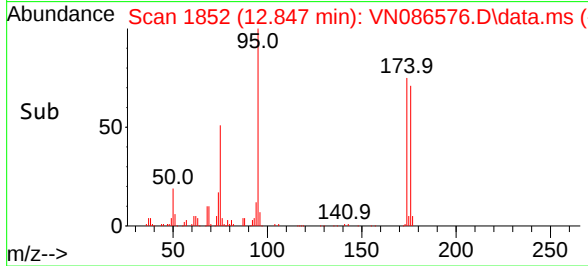
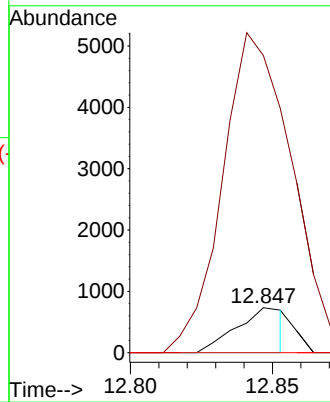
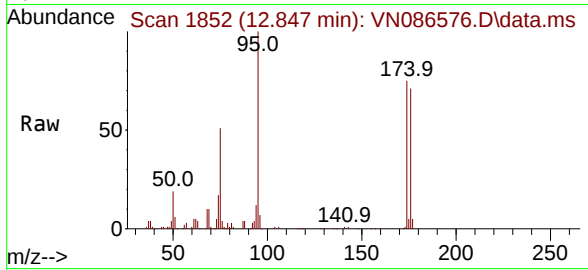
Tgt Ion:173 Resp: 860

Ion Ratio Lower Upper

173 100

175 843.7 24.6 73.6#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086576.D

Acq: 12 May 2025 13:16

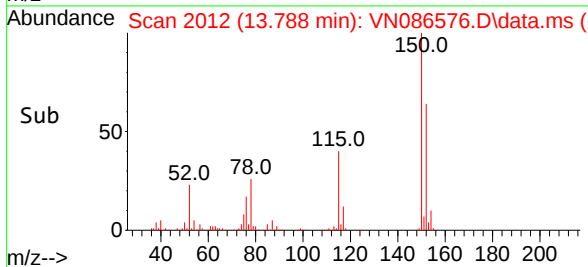
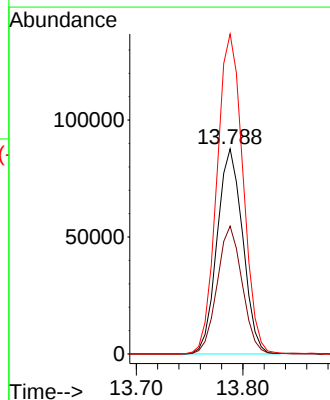
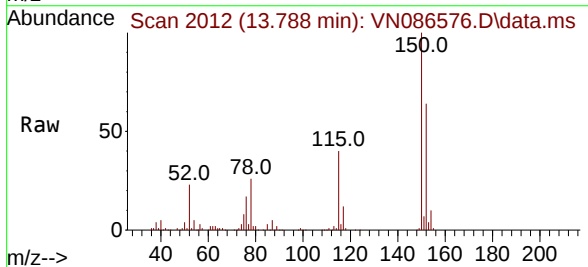
Tgt Ion:152 Resp: 146313

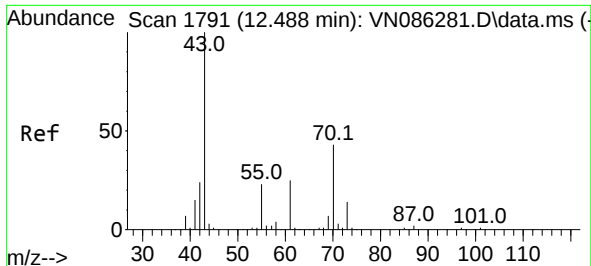
Ion Ratio Lower Upper

152 100

115 60.9 31.9 95.9

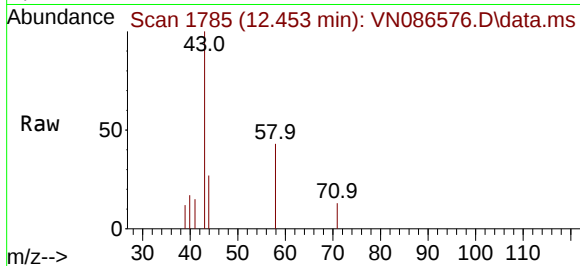
150 158.8 0.0 352.0



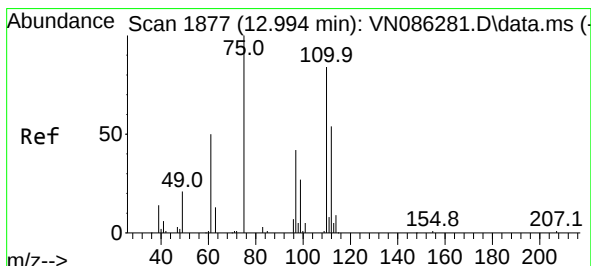
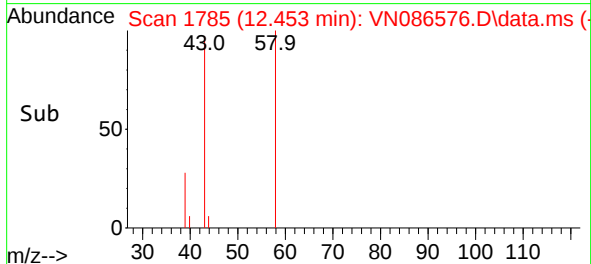
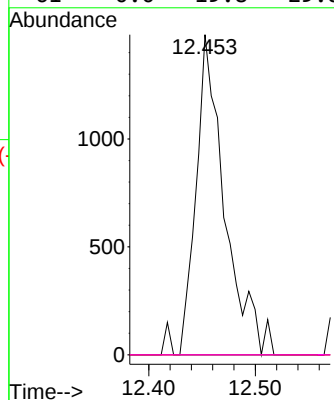


#74
N-amy1 acetate
Concen: 0.465 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

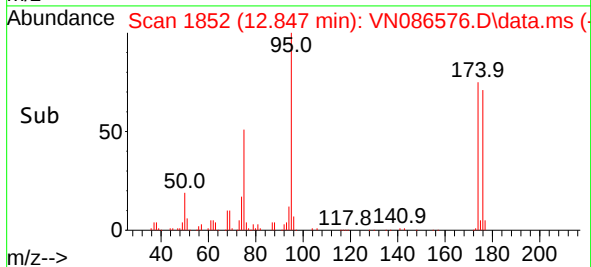
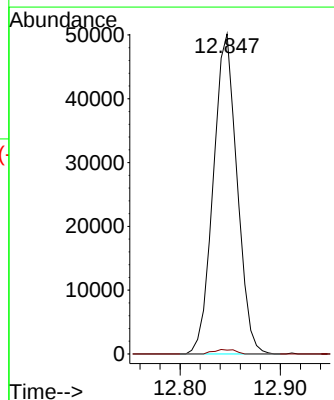
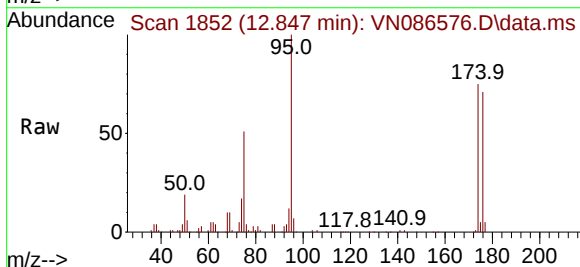


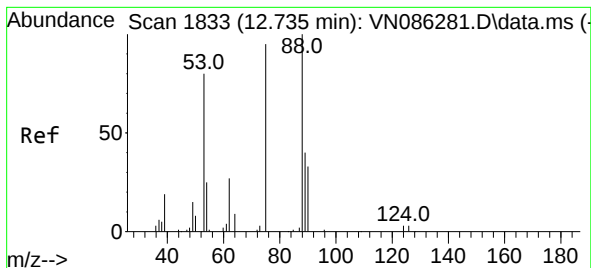
Tgt Ion: 43	Resp: 2769
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 0.0	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 23.870 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

Tgt Ion: 75	Resp: 82417
Ion Ratio	Lower Upper
75 100	
77 1.3	98.8 296.4#

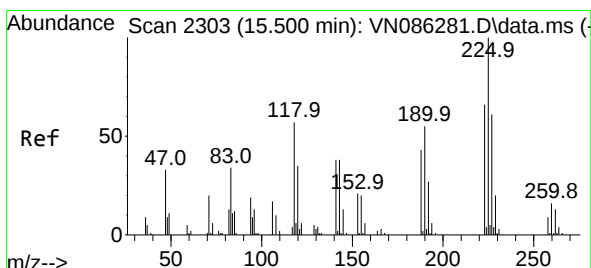
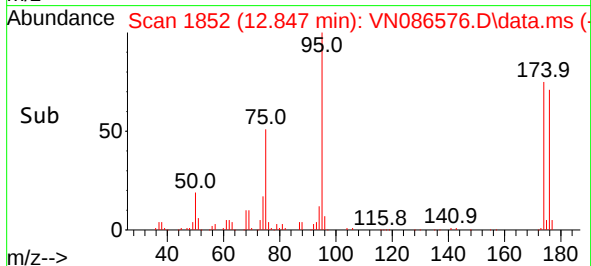
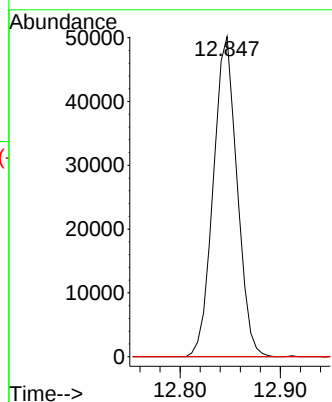
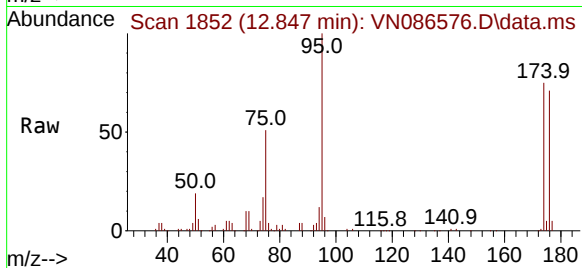




#81
trans-1,4-Dichloro-2-butene
Concen: 57.326 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

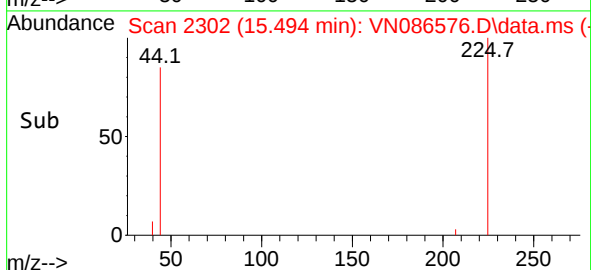
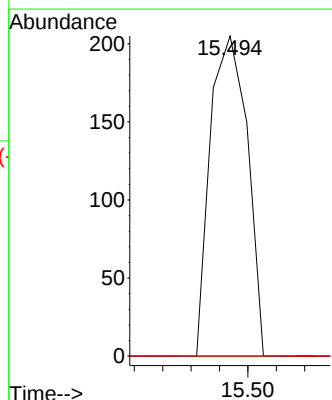
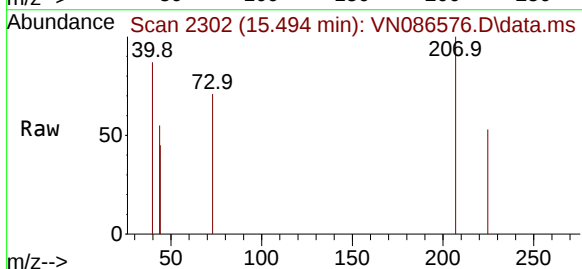
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#01

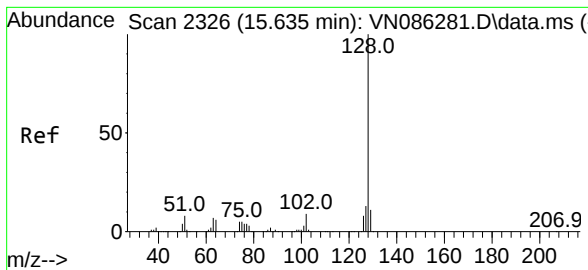
Tgt Ion: 75 Resp: 82417
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#94
Hexachlorobutadiene
Concen: 0.213 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086576.D
Acq: 12 May 2025 13:16

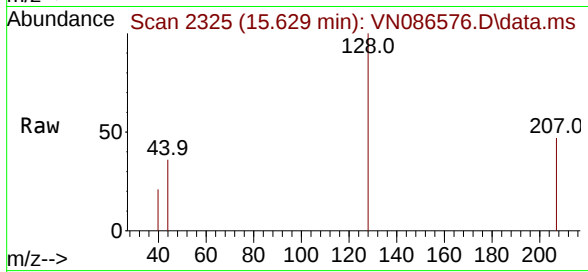
Tgt Ion: 225 Resp: 186
Ion Ratio Lower Upper
225 100
223 0.0 32.8 98.3#
227 0.0 31.4 94.0#





#95
 Naphthalene
 Concen: 0.256 ug/l
 RT: 15.629 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN086576.D
 Acq: 12 May 2025 13:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#01



Tgt Ion:	128	Resp:	2099
Ion Ratio	Lower	Upper	
128	100		
127	3.7	10.2	15.4#
129	0.0	8.6	13.0#

