

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086104.D
 Acq On : 25 Mar 2025 16:40
 Operator : JC\MD
 Sample : PB167276ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#09

Quant Time: Mar 26 03:20:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

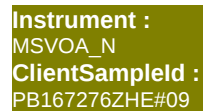
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

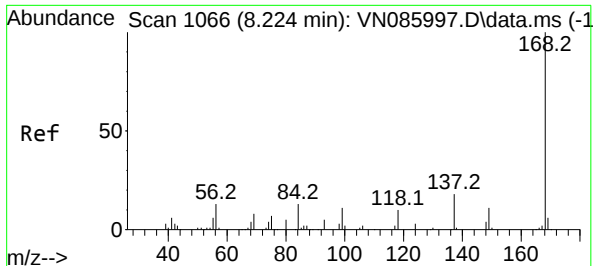
Internal Standards						
1) Pentafluorobenzene	8.224	168	161542	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	314904	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299908	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110914	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126510	57.191	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.380%			
35) Dibromofluoromethane	8.165	113	111526	50.740	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.480%			
50) Toluene-d8	10.565	98	401833	50.373	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.740%			
62) 4-Bromofluorobenzene	12.847	95	118718	41.730	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.460%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	639	2.040	ug/l #	73
13) Acrolein	4.289	56	181	0.542	ug/l #	60
16) Acetone	4.424	43	84438	124.944	ug/l	96
18) Methyl Acetate	5.042	43	3091	1.849	ug/l #	54
20) Methylene Chloride	5.277	84	6262	3.167	ug/l #	83
25) 2-Butanone	7.483	43	11352	11.641	ug/l	95
29) Tetrahydrofuran	7.841	42	527	0.875	ug/l #	40
31) Cyclohexane	8.236	56	3515	1.275	ug/l #	27
36) 1,1-Dichloropropene	8.224	75	13084	4.521	ug/l #	47
37) Ethyl Acetate	7.559	43	687	0.281	ug/l #	64
38) Carbon Tetrachloride	8.224	117	17677	4.645	ug/l #	16
43) Isopropyl Acetate	8.688	43	60557	11.445	ug/l #	65
45) 1,2-Dichloropropane	9.730	63	1135	0.549	ug/l #	44
48) Methyl methacrylate	9.735	41	62042	35.534	ug/l #	31
51) 4-Methyl-2-Pentanone	10.441	43	9488	4.066	ug/l #	76
54) cis-1,3-Dichloropropene	10.359	75	25489	7.324	ug/l #	65
56) Ethyl methacrylate	10.982	69	829	0.496	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	2649	0.733	ug/l #	42
59) 2-Hexanone	11.200	43	35743	21.027	ug/l #	50
71) Bromoform	12.847	173	1216	0.570	ug/l #	1
74) N-amyl acetate	12.453	43	2068	0.816	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	58445	23.537	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	58445	62.227	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.700	75	146	0.285	ug/l #	2

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

Instrument :
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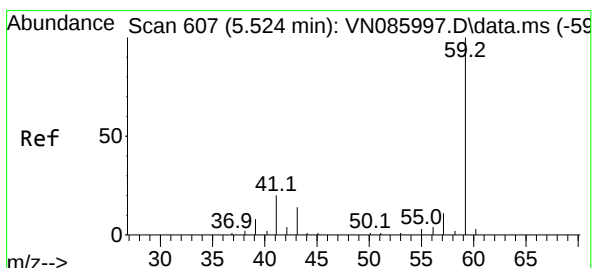
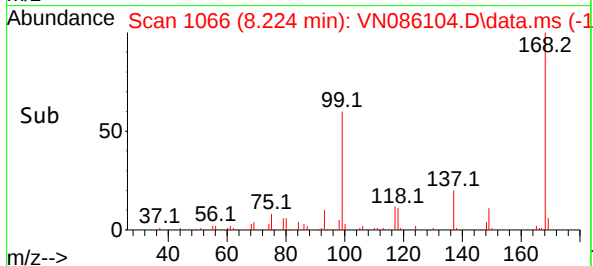
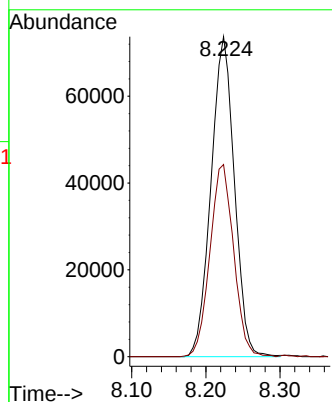
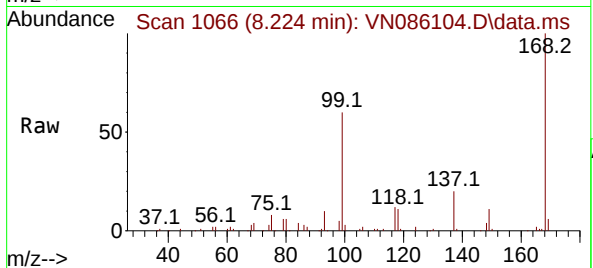




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

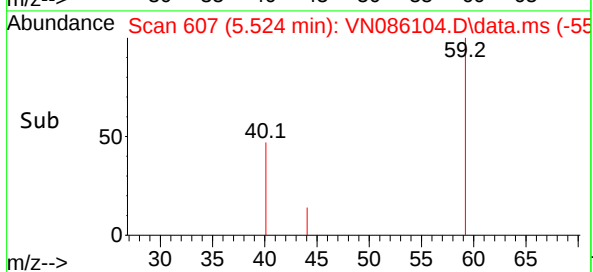
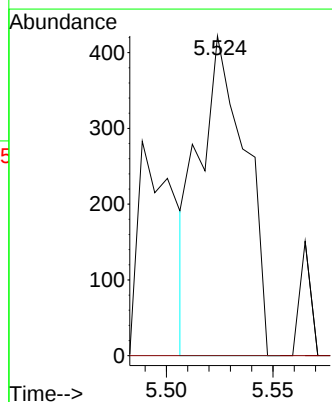
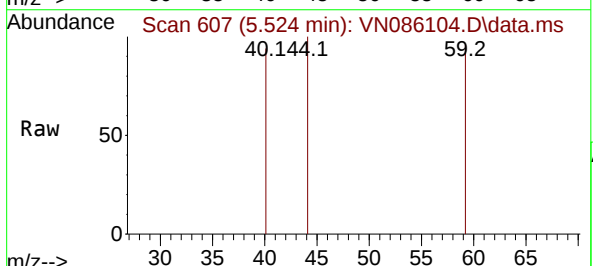
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#09

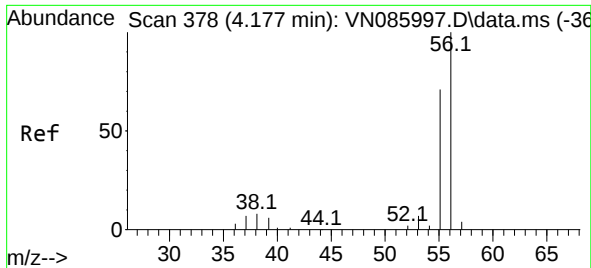
Tgt Ion:168 Resp: 161542
Ion Ratio Lower Upper
168 100
99 60.0 49.4 74.2



#11
Tert butyl alcohol
Concen: 2.040 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Tgt Ion: 59 Resp: 639
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.542 ug/l

RT: 4.289 min Scan# 397

Delta R.T. 0.112 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

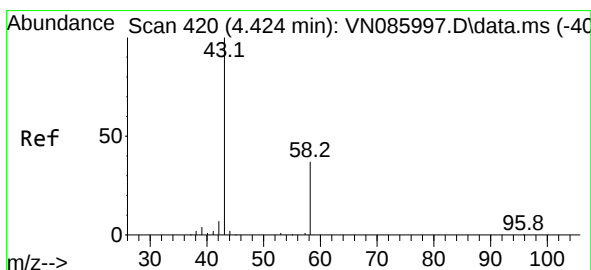
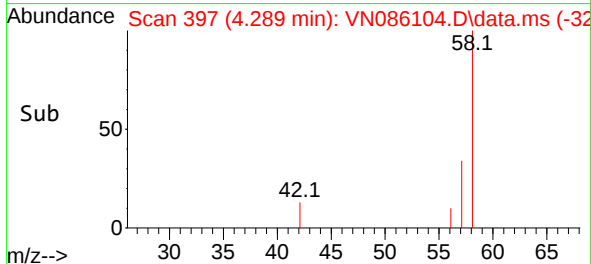
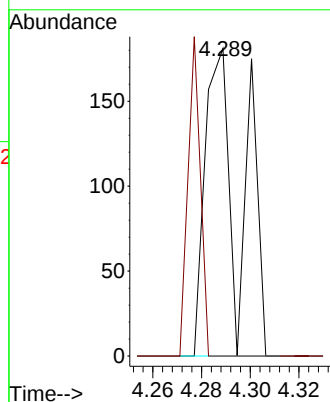
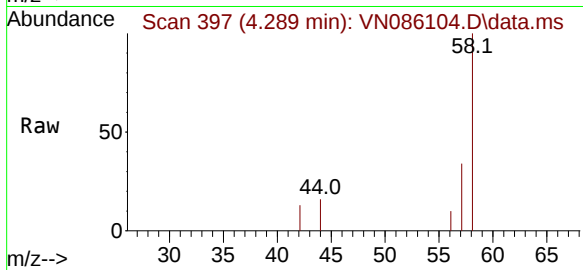
PB167276ZHE#09

Tgt Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 36.5 55.1 82.7#



#16

Acetone

Concen: 124.944 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN086104.D

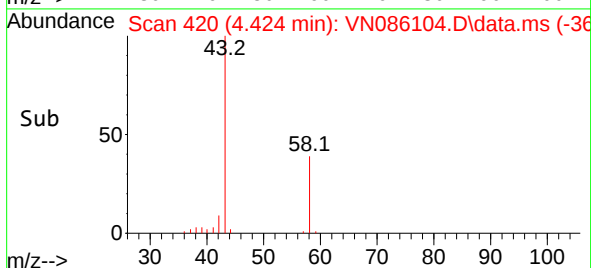
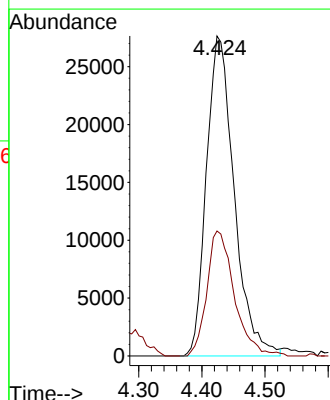
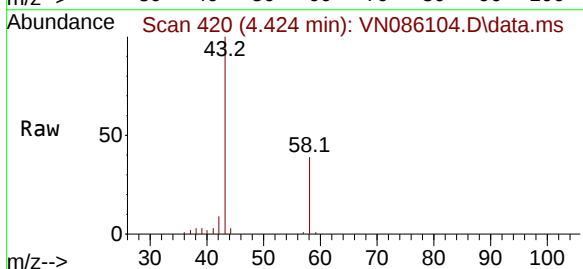
Acq: 25 Mar 2025 16:40

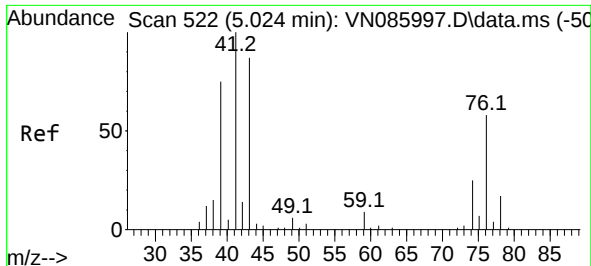
Tgt Ion: 43 Resp: 84438

Ion Ratio Lower Upper

43 100

58 39.1 29.4 44.2

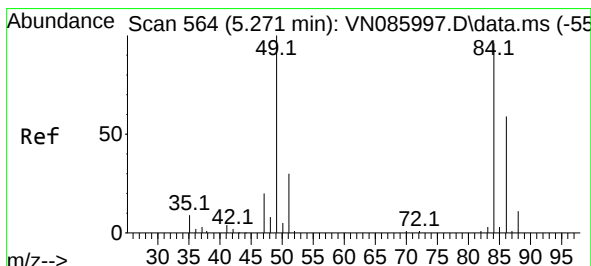
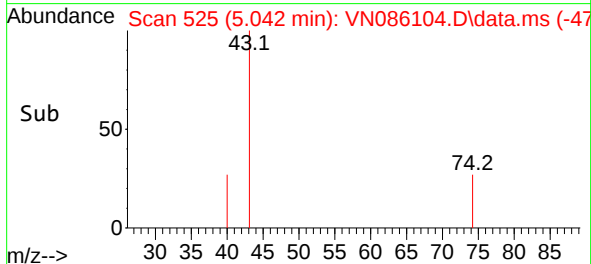
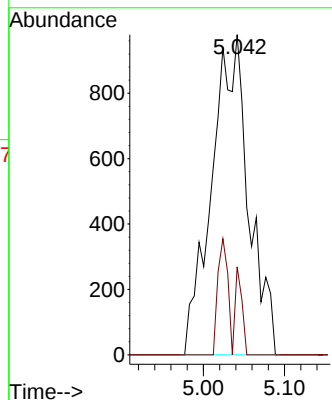
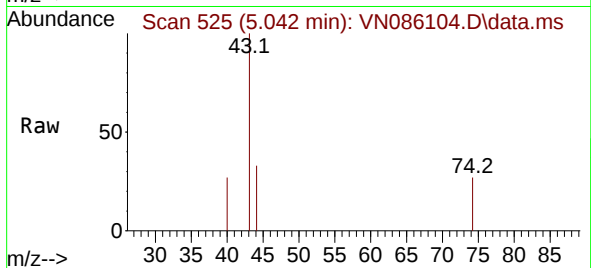




#18
Methyl Acetate
Concen: 1.849 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

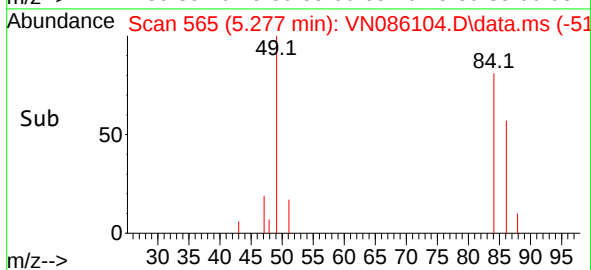
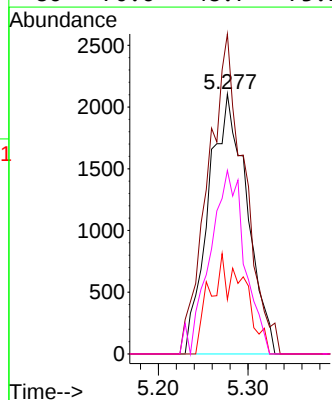
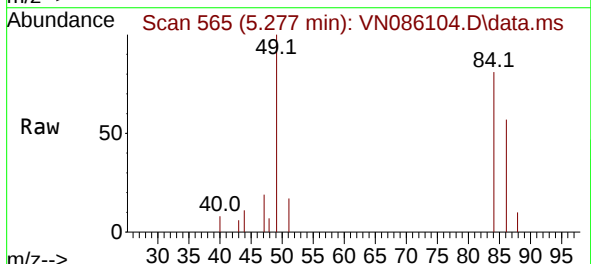
Instrument :
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PB167276ZHE#09

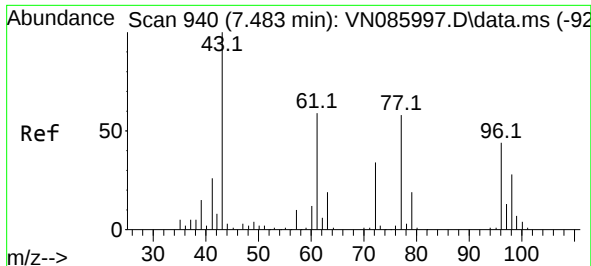
Tgt Ion: 43 Resp: 3091
Ion Ratio Lower Upper
43 100
74 5.0 23.9 35.9#



#20
Methylene Chloride
Concen: 3.167 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Tgt Ion: 84 Resp: 6262
Ion Ratio Lower Upper
84 100
49 123.1 83.3 124.9
51 20.9 24.8 37.2#
86 70.6 48.7 73.1

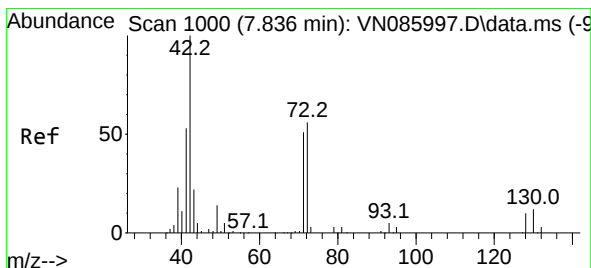
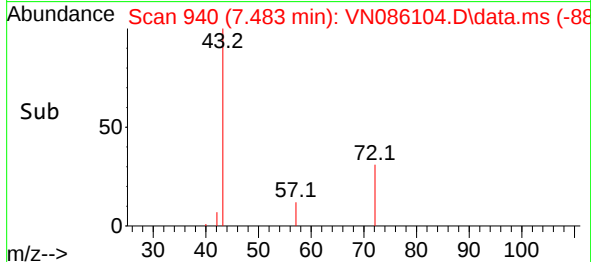
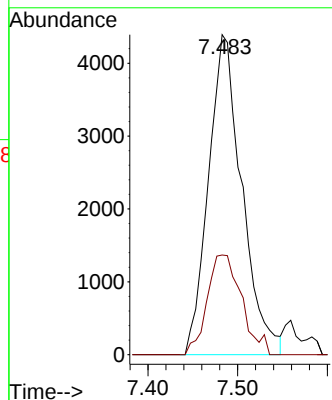
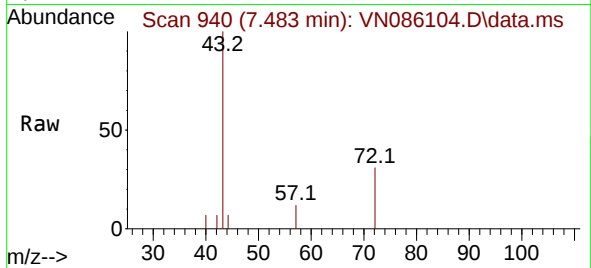




#25
2-Butanone
Concen: 11.641 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

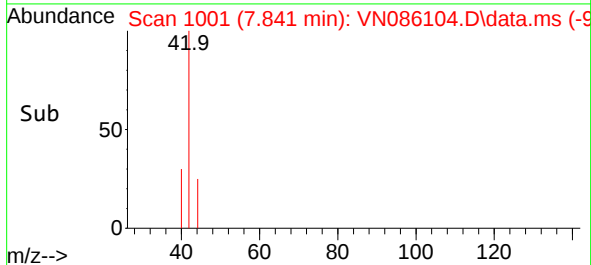
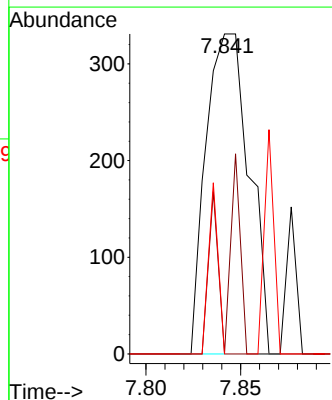
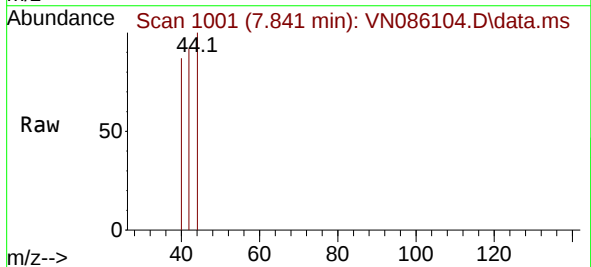
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#09

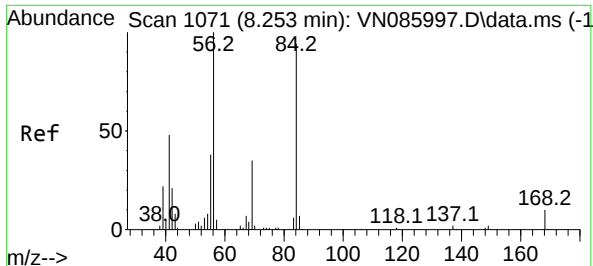
Tgt Ion: 43 Resp: 11352
Ion Ratio Lower Upper
43 100
72 31.1 27.4 41.0



#29
Tetrahydrofuran
Concen: 0.875 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

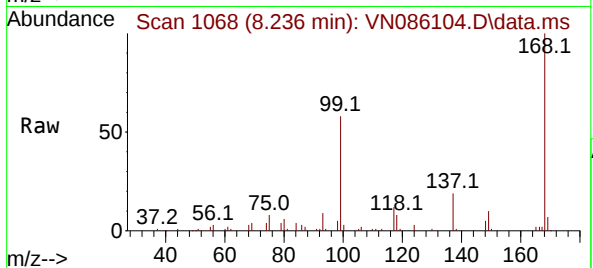
Tgt Ion: 42 Resp: 527
Ion Ratio Lower Upper
42 100
72 11.2 45.0 67.4#
71 11.8 41.9 62.9#



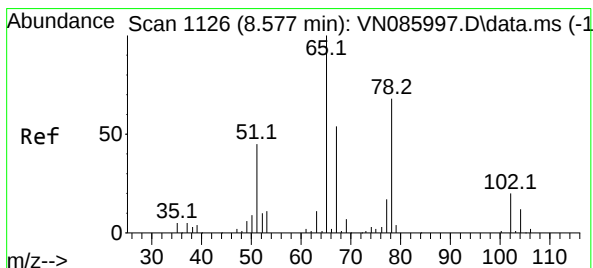
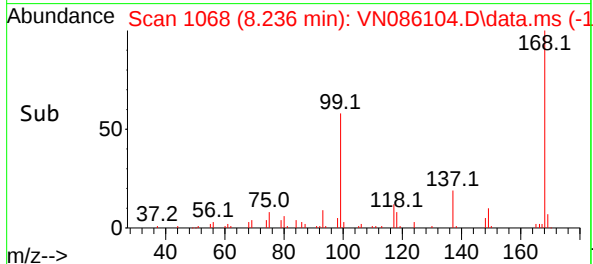
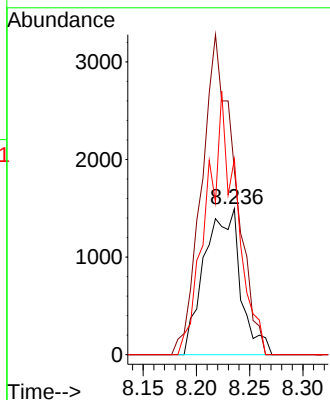


#31
Cyclohexane
Concen: 1.275 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.018 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#09

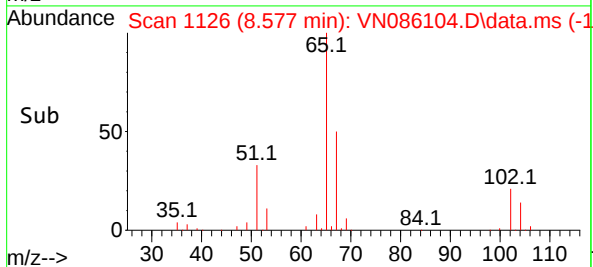
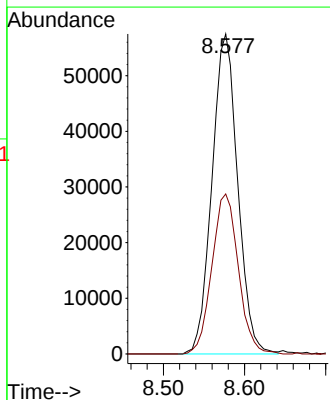
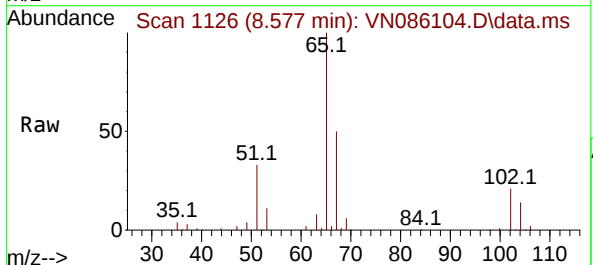


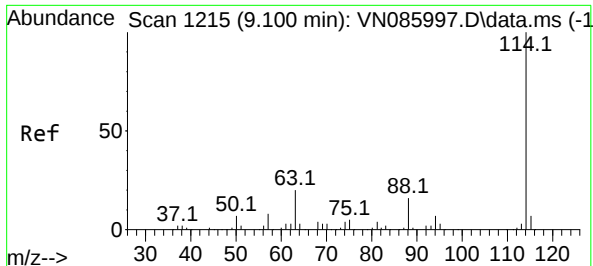
Tgt Ion: 56 Resp: 3515
Ion Ratio Lower Upper
56 100
69 126.5 28.0 42.0#
84 134.0 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 57.191 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Tgt Ion: 65 Resp: 126510
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#09

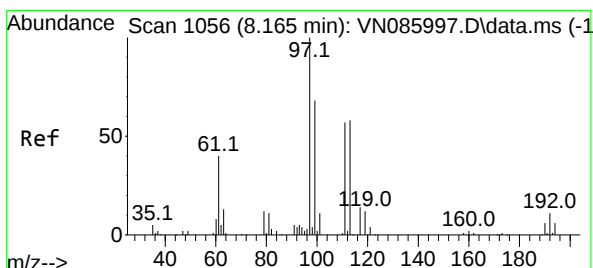
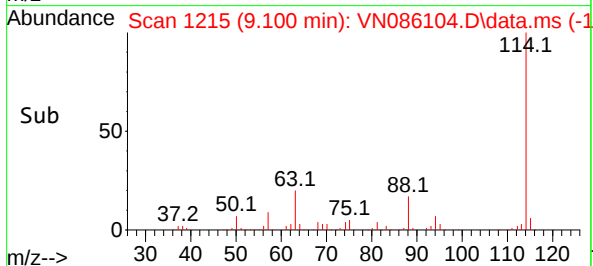
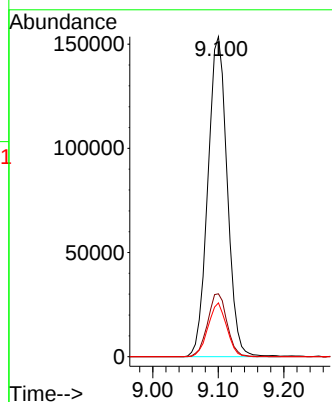
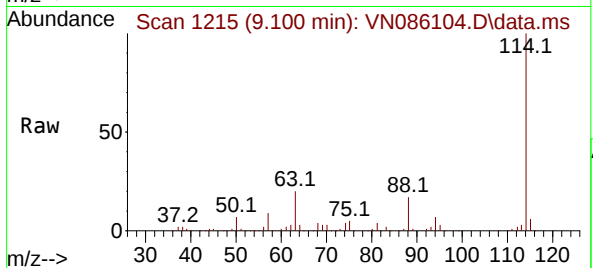
Tgt Ion:114 Resp: 314904

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 16.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.740 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

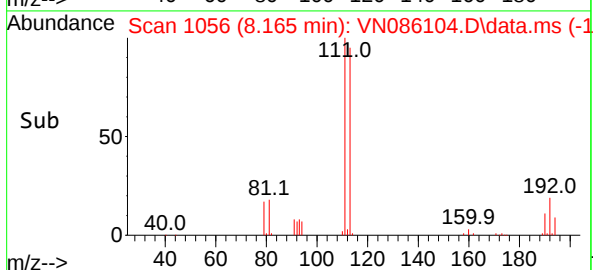
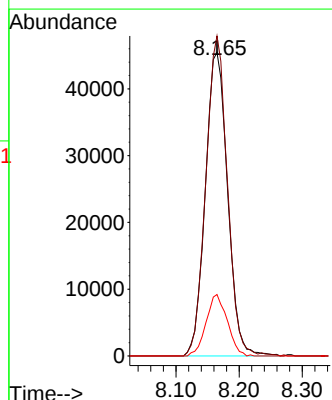
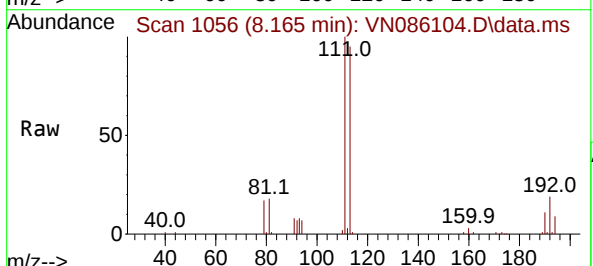
Tgt Ion:113 Resp: 111526

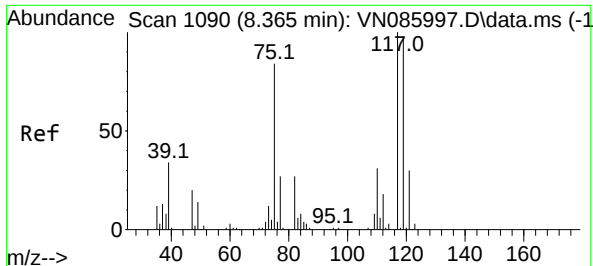
Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

192 19.2 15.9 23.9

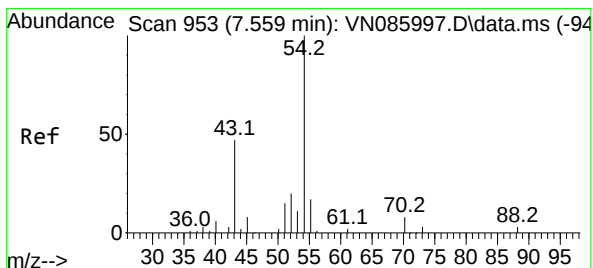
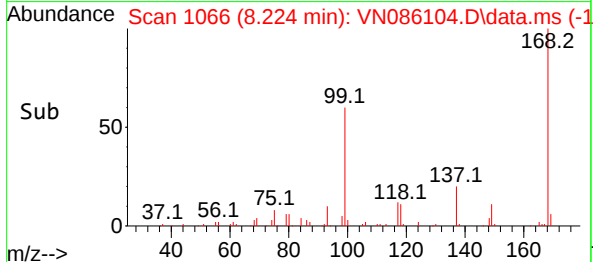
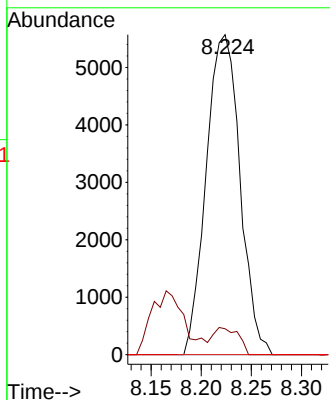
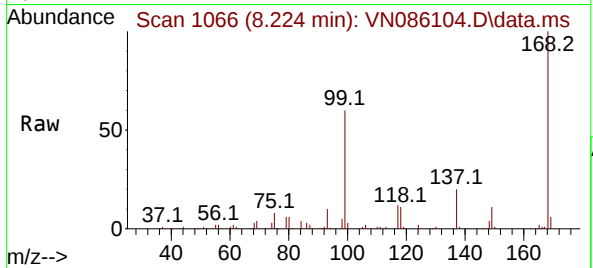




#36
1,1-Dichloropropene
Concen: 4.521 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

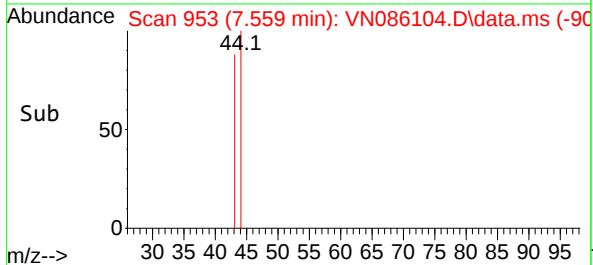
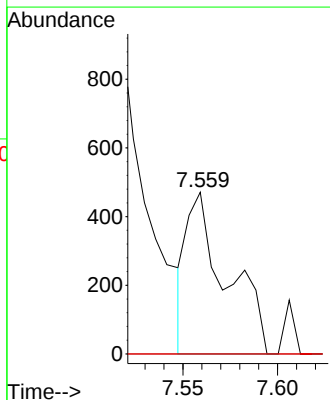
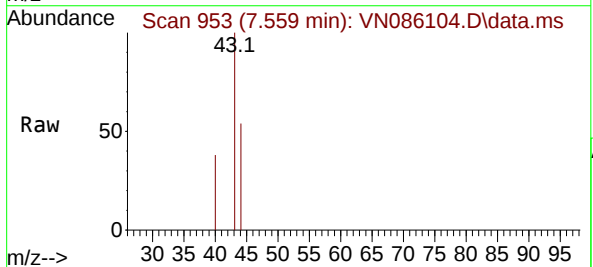
Instrument :
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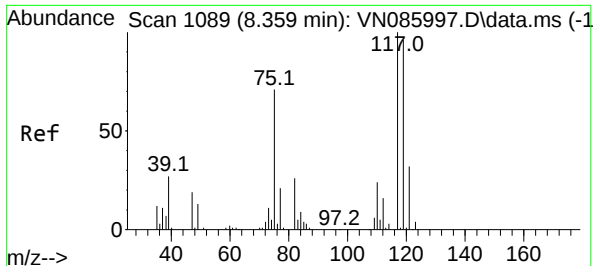
Tgt Ion: 75 Resp: 13084
Ion Ratio Lower Upper
75 100
110 6.2 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.281 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

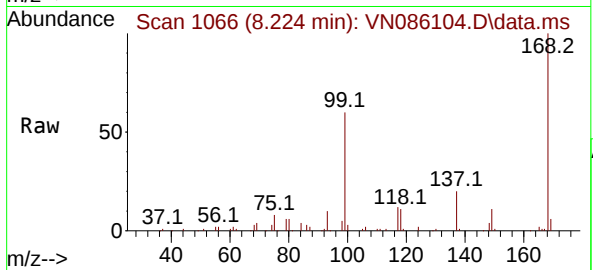
Tgt Ion: 43 Resp: 687
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 0.0 11.0 16.6#



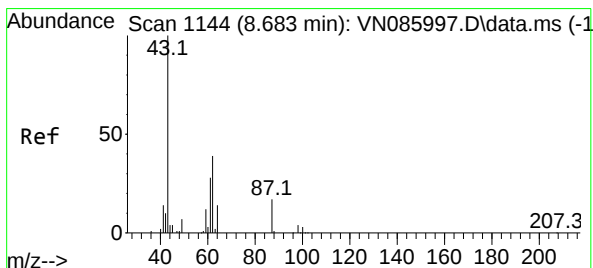
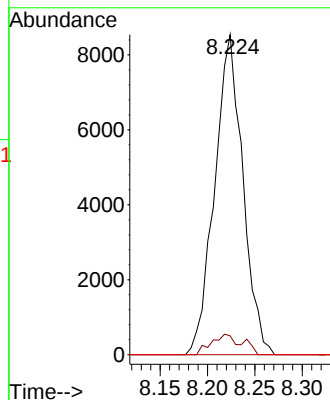
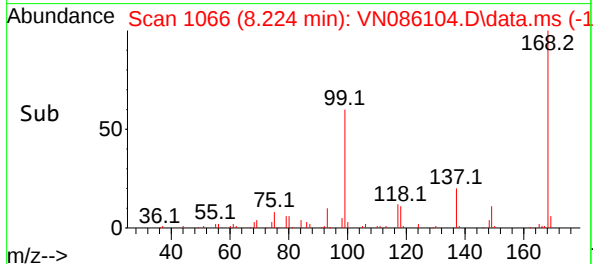


#38
Carbon Tetrachloride
Concen: 4.645 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

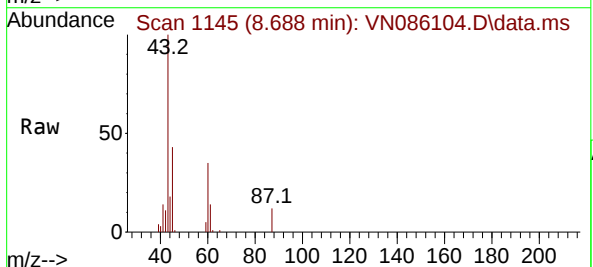
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#09



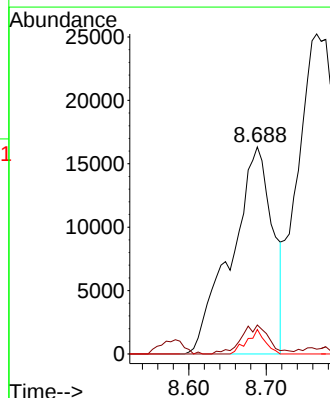
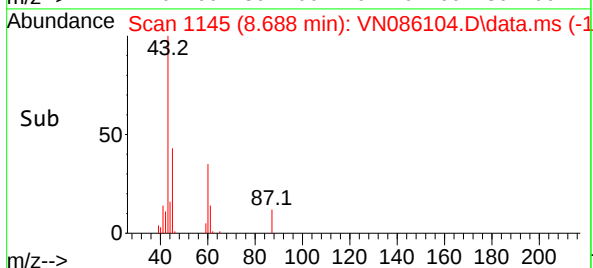
Tgt Ion:117 Resp: 17677
Ion Ratio Lower Upper
117 100
119 5.9 77.0 115.4#
121 0.0 25.6 38.4#

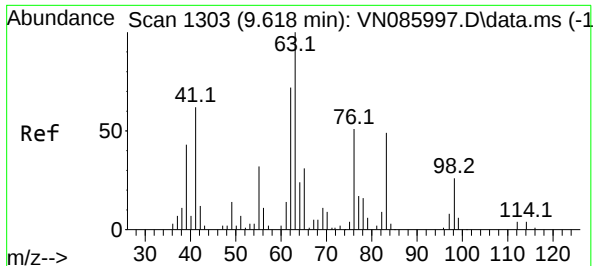


#43
Isopropyl Acetate
Concen: 11.445 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40



Tgt Ion: 43 Resp: 60557
Ion Ratio Lower Upper
43 100
61 9.5 25.0 37.6#
87 5.1 13.0 19.4#





#45

1,2-Dichloropropane

Concen: 0.549 ug/l

RT: 9.730 min Scan# 1135

Delta R.T. 0.112 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

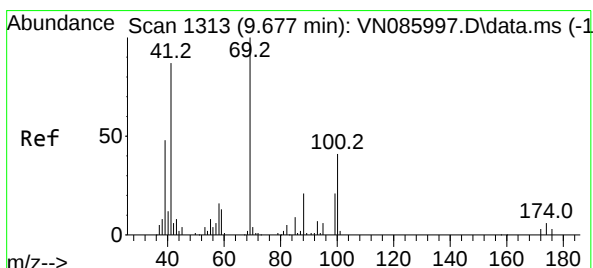
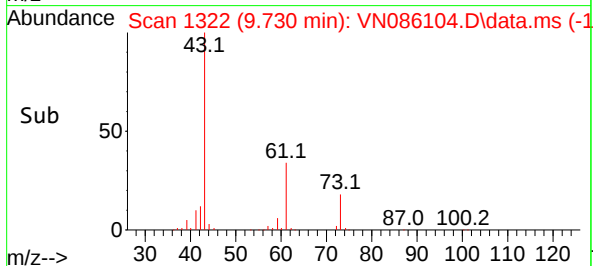
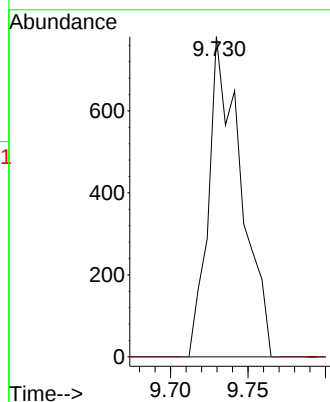
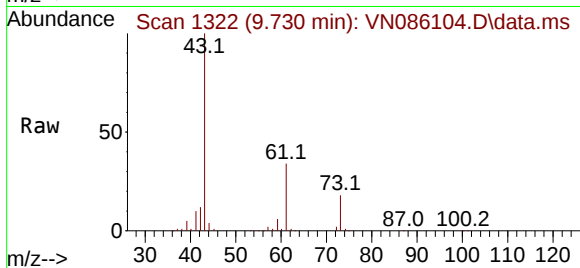
PB167276ZHE#09

Tgt Ion: 63 Resp: 1135

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 35.534 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

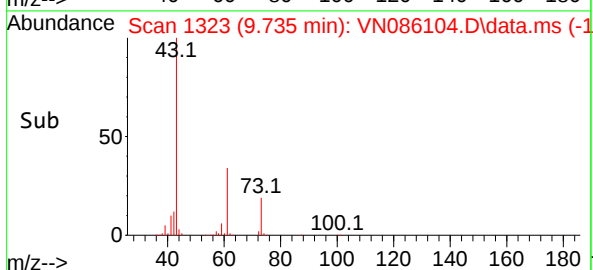
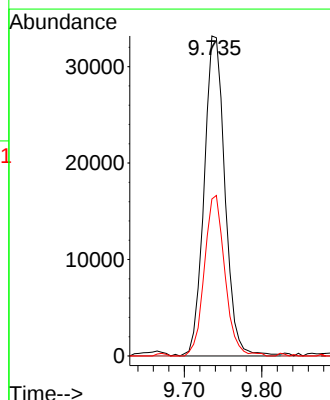
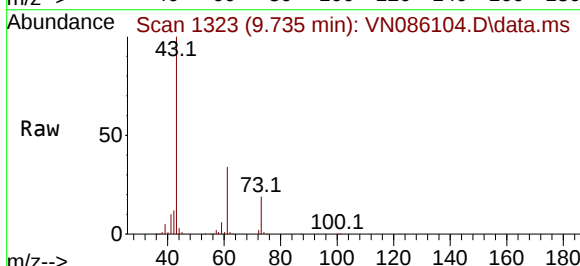
Tgt Ion: 41 Resp: 62042

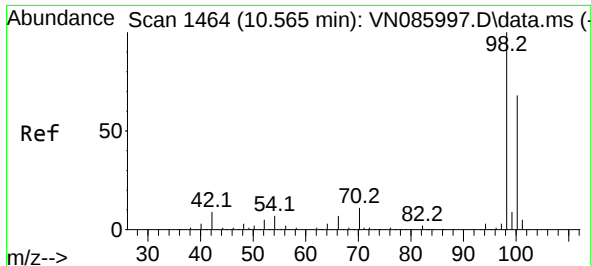
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 49.5 45.6 68.4

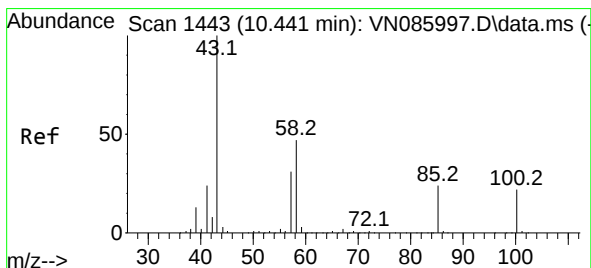
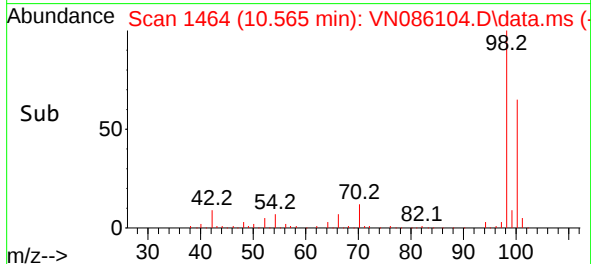
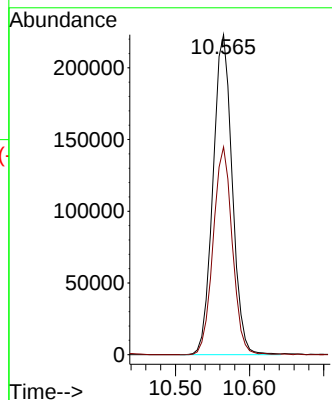
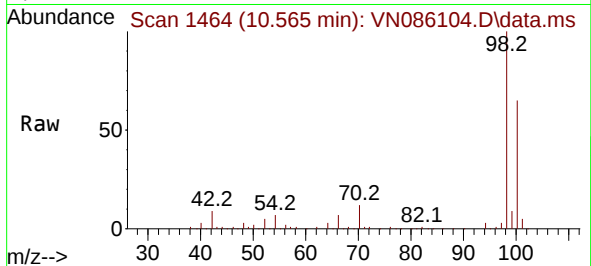




#50
Toluene-d8
Concen: 50.373 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

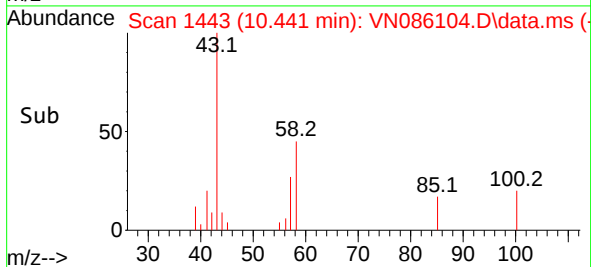
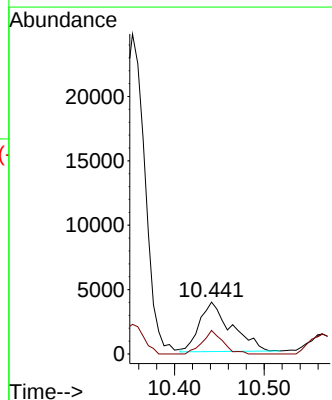
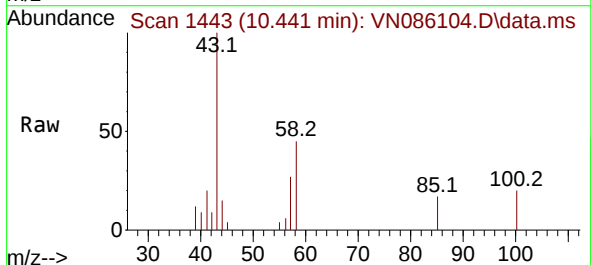
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#09

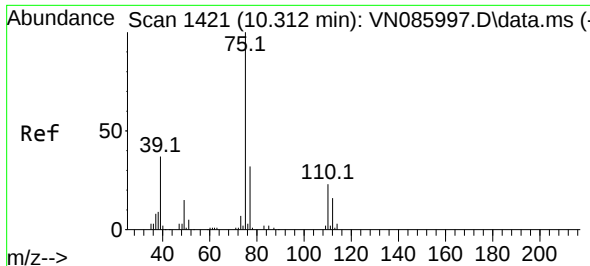
Tgt Ion: 98 Resp: 401833
Ion Ratio Lower Upper
98 100
100 64.5 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 4.066 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Tgt Ion: 43 Resp: 9488
Ion Ratio Lower Upper
43 100
58 30.4 37.4 56.0#

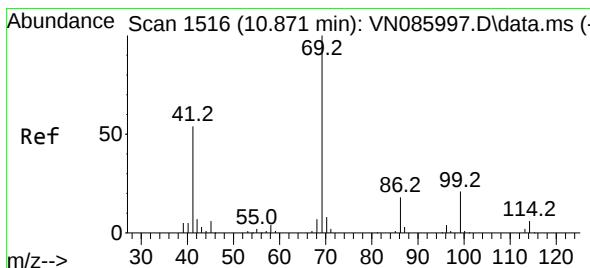
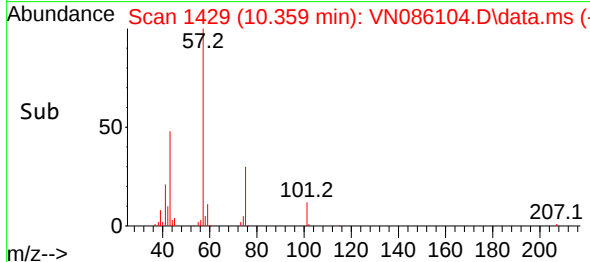
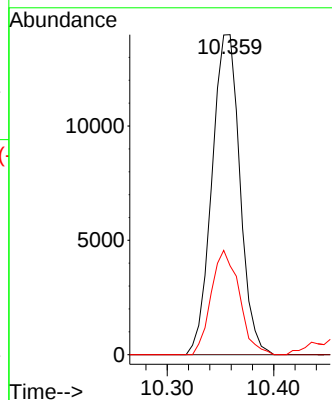
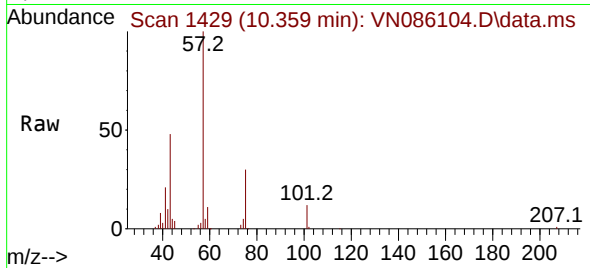




#54
 cis-1,3-Dichloropropene
 Concen: 7.324 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN086104.D
 Acq: 25 Mar 2025 16:40

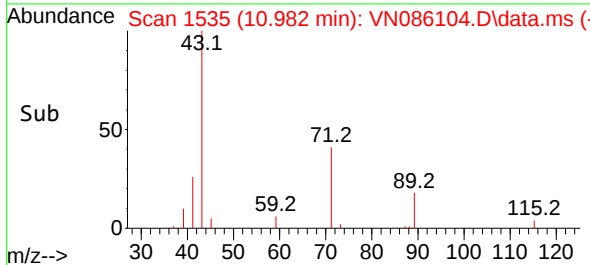
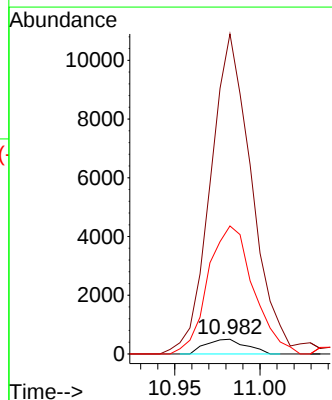
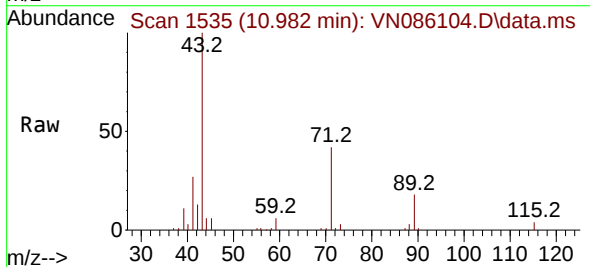
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#09

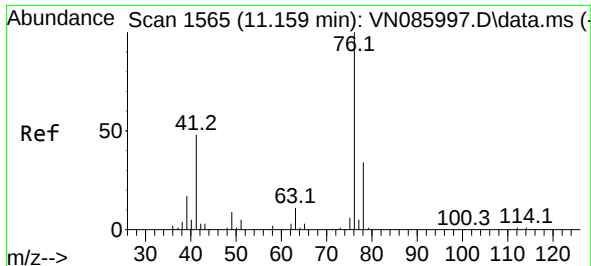
Tgt Ion: 75 Resp: 25489
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 27.7 29.6 44.4#



#56
 Ethyl methacrylate
 Concen: 0.496 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN086104.D
 Acq: 25 Mar 2025 16:40

Tgt Ion: 69 Resp: 829
 Ion Ratio Lower Upper
 69 100
 41 2237.8 41.6 62.4#
 39 975.5 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 0.733 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

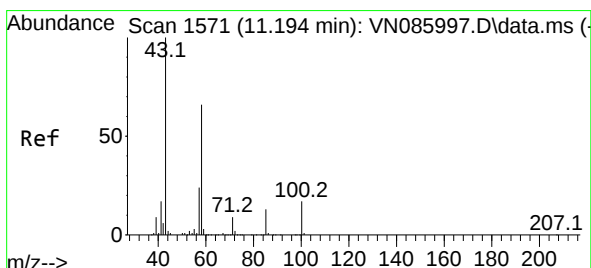
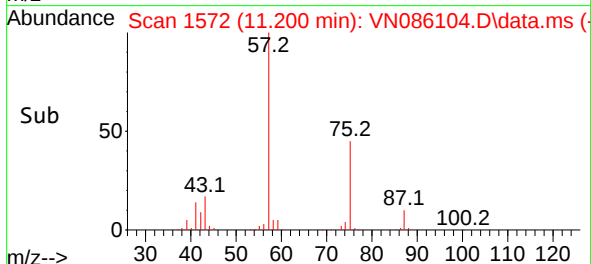
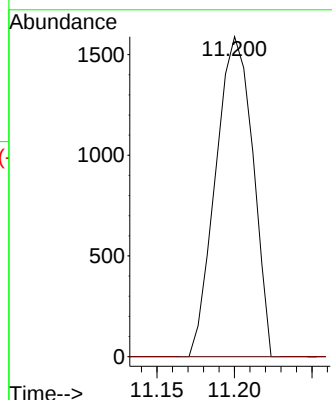
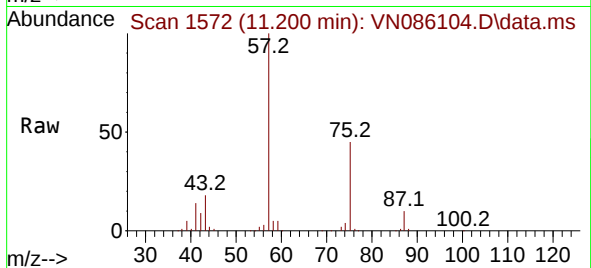
PB167276ZHE#09

Tgt Ion: 76 Resp: 2649

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 21.027 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086104.D

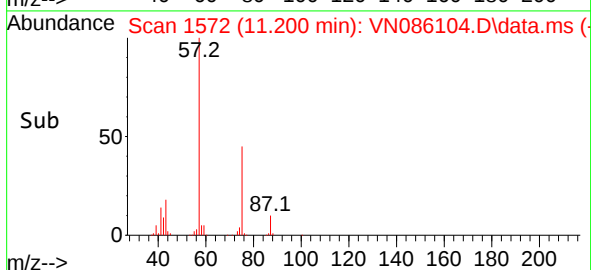
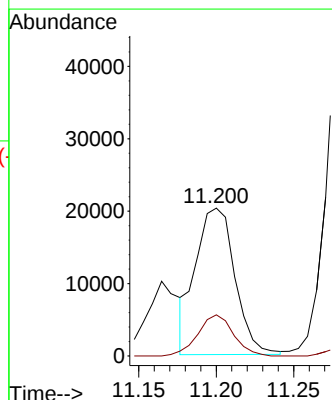
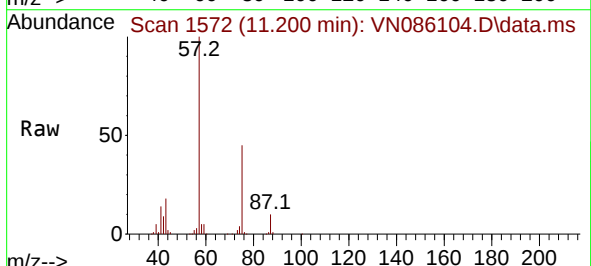
Acq: 25 Mar 2025 16:40

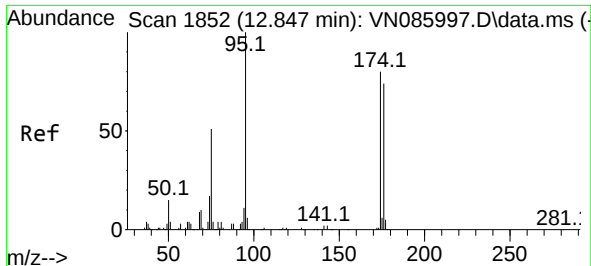
Tgt Ion: 43 Resp: 35743

Ion Ratio Lower Upper

43 100

58 25.4 32.4 97.2#

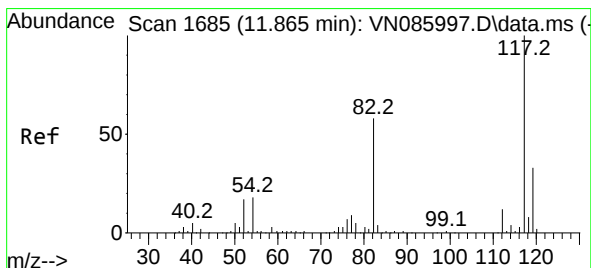
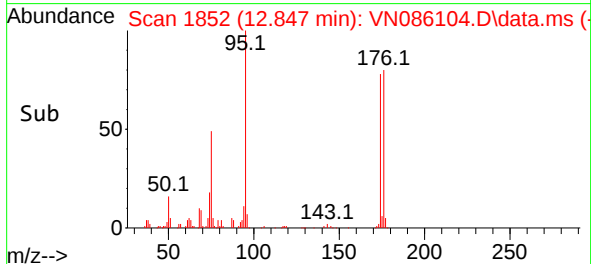
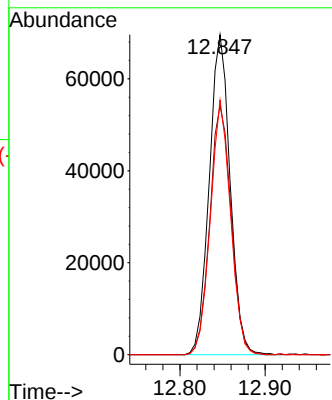
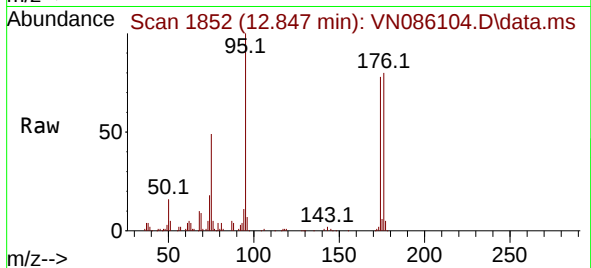




#62
4-Bromofluorobenzene
Concen: 41.730 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

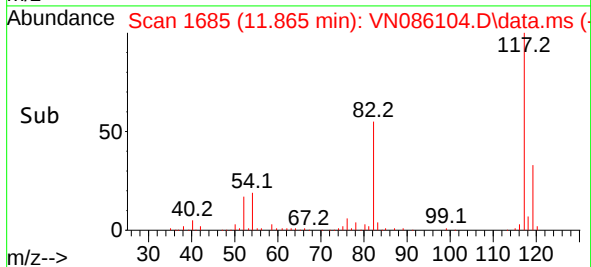
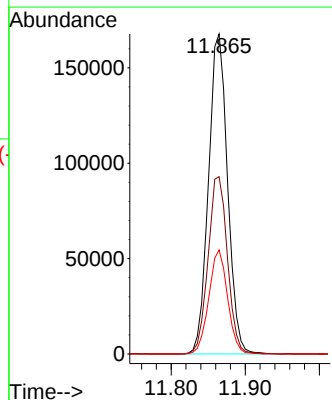
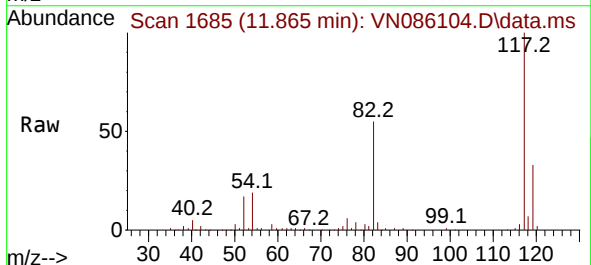
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#09

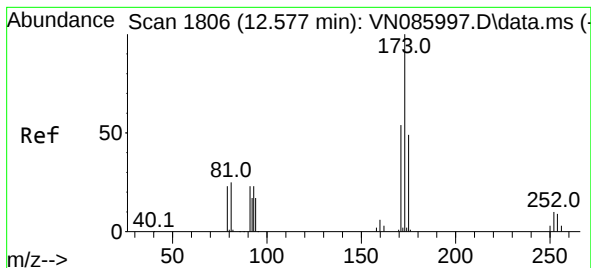
Tgt Ion: 95 Resp: 118718
Ion Ratio Lower Upper
95 100
174 79.6 0.0 156.8
176 76.7 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Tgt Ion: 117 Resp: 299908
Ion Ratio Lower Upper
117 100
82 55.4 46.7 70.1
119 32.5 26.5 39.7





#71

Bromoform

Concen: 0.570 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#09

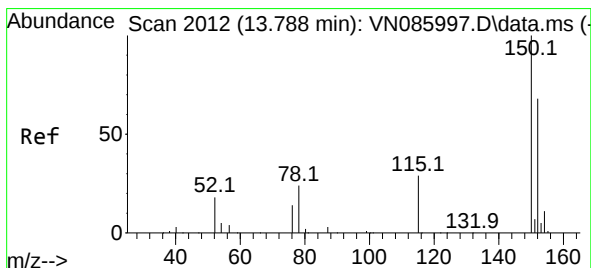
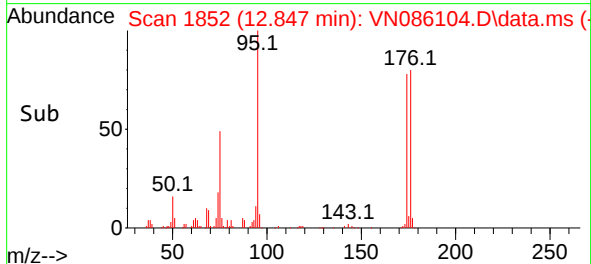
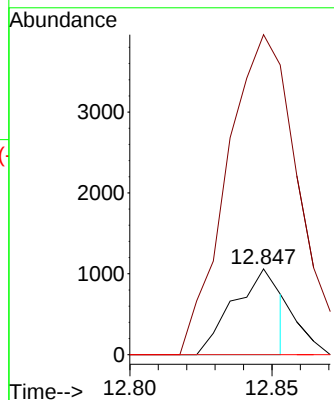
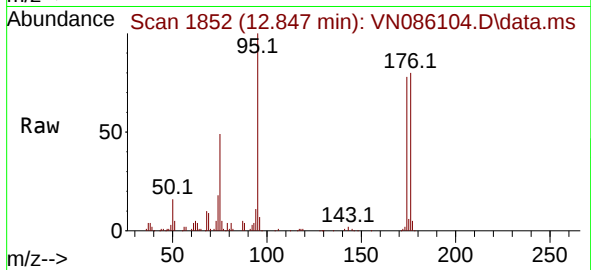
Tgt Ion:173 Resp: 1216

Ion Ratio Lower Upper

173 100

175 448.7 24.3 73.0#

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: VN086104.D

Acq: 25 Mar 2025 16:40

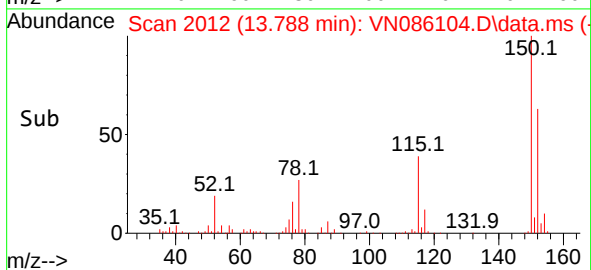
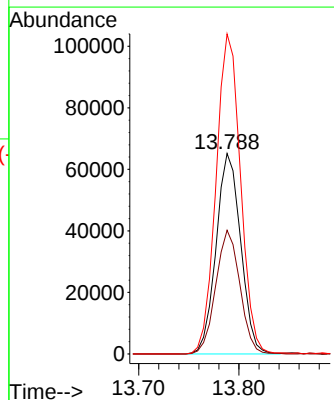
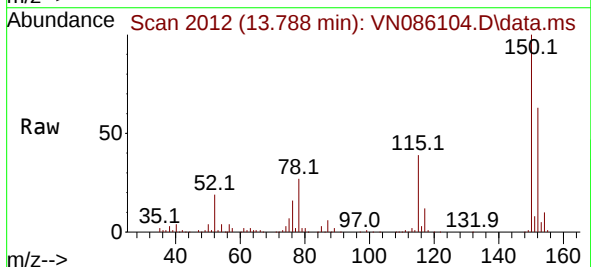
Tgt Ion:152 Resp: 110914

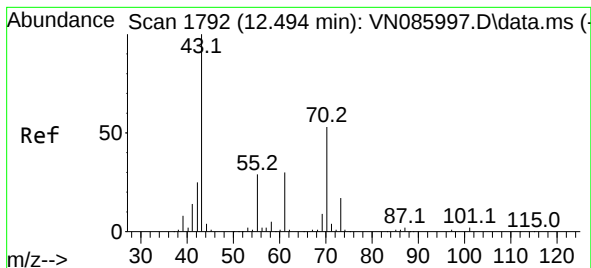
Ion Ratio Lower Upper

152 100

115 60.6 31.1 93.2

150 159.0 0.0 359.6





#74

N-amy1 acetate

Concen: 0.816 ug/l

RT: 12.453 min Scan# 1

Delta R.T. -0.041 min

Lab File: VN086104.D

Acq: 25 Mar 2025 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#09

Tgt Ion: 43 Resp: 2068

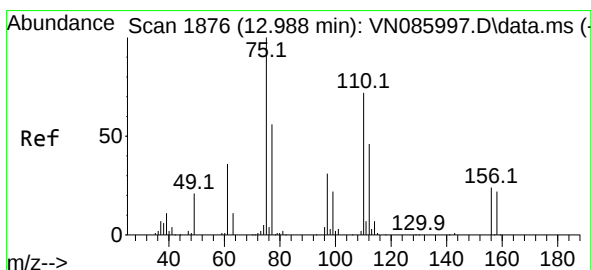
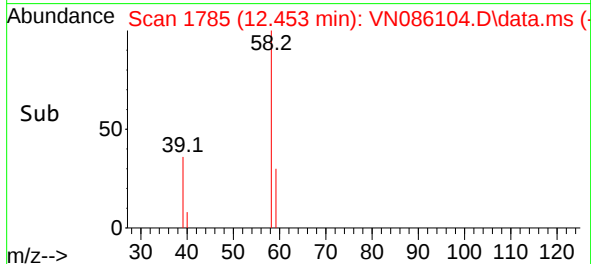
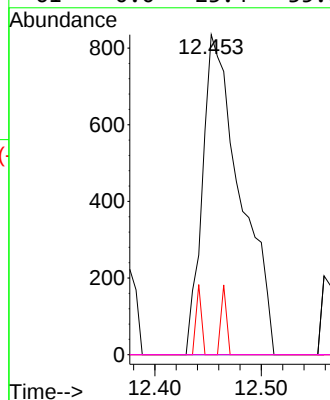
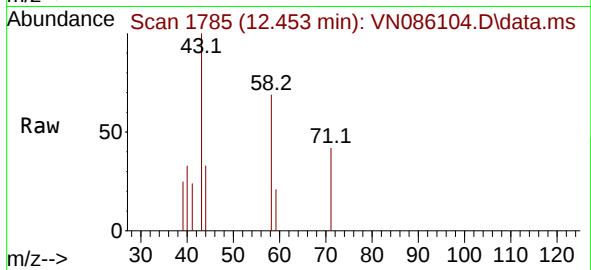
Ion Ratio Lower Upper

43 100

70 0.0 43.0 64.4#

55 3.1 23.8 35.8#

61 0.0 23.4 35.0#



#76

1,2,3-Trichloropropane

Concen: 23.537 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086104.D

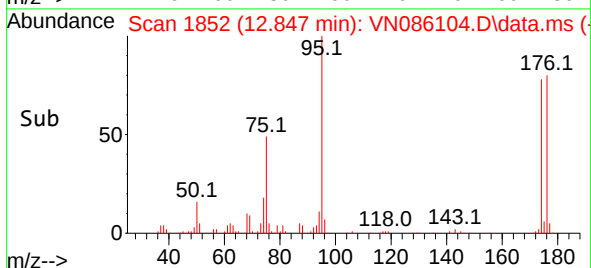
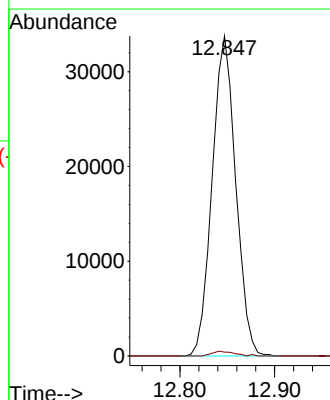
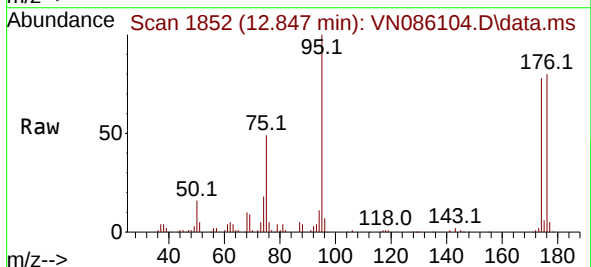
Acq: 25 Mar 2025 16:40

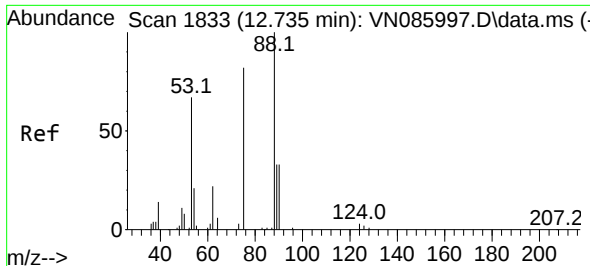
Tgt Ion: 75 Resp: 58445

Ion Ratio Lower Upper

75 100

77 1.4 83.7 251.0#

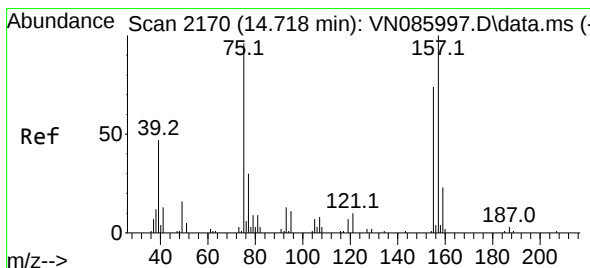
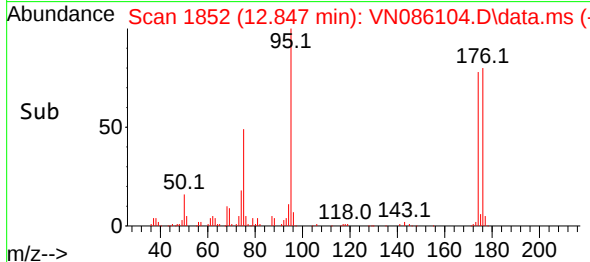
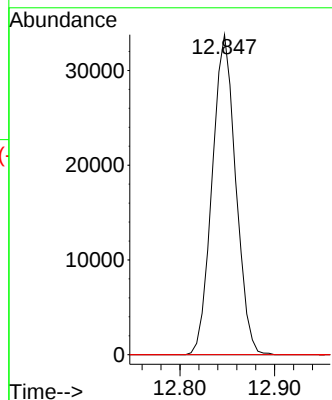
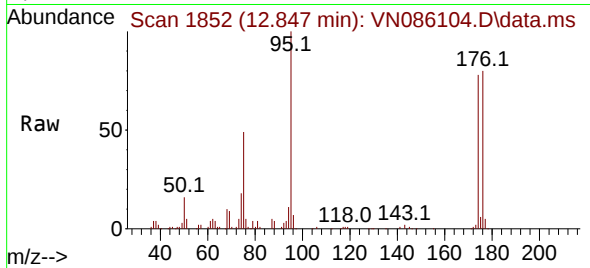




#81
trans-1,4-Dichloro-2-butene
Concen: 62.227 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#09

Tgt Ion: 75 Resp: 58445
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.285 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.018 min
Lab File: VN086104.D
Acq: 25 Mar 2025 16:40

Tgt Ion: 75 Resp: 146
Ion Ratio Lower Upper
75 100
155 0.0 41.0 123.0#
157 0.0 53.7 161.1#

