

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086046.D
 Acq On : 21 Mar 2025 17:42
 Operator : JC\MD
 Sample : PB167234ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#06

Quant Time: Mar 21 23:01:35 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)

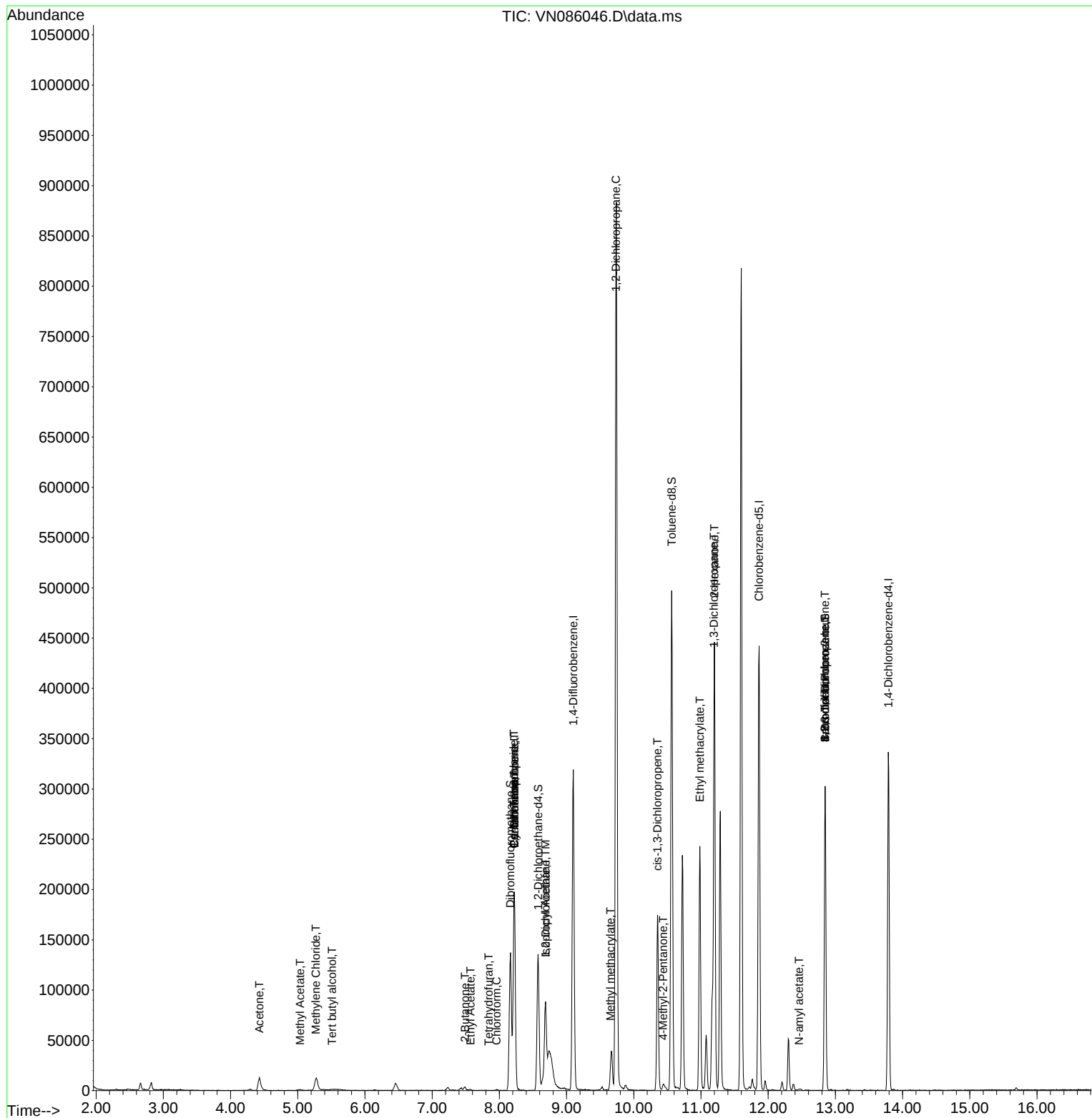
Internal Standards						
1) Pentafluorobenzene	8.224	168	143796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	276054	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	264482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	95124	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	114291	58.044	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	116.080%
35) Dibromofluoromethane	8.165	113	95934	49.789	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.580%
50) Toluene-d8	10.565	98	351481	50.262	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.520%
62) 4-Bromofluorobenzene	12.847	95	103664	41.567	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	83.140%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.512	59	663	2.378	ug/l #	73
16) Acetone	4.430	43	22480	37.369	ug/l	100
18) Methyl Acetate	5.036	43	1242	0.834	ug/l #	79
20) Methylene Chloride	5.271	84	10158	5.772	ug/l	94
25) 2-Butanone	7.488	43	5606	6.458	ug/l	90
29) Tetrahydrofuran	7.841	42	188	0.351	ug/l #	24
30) Chloroform	7.959	83	1163	0.365	ug/l #	77
31) Cyclohexane	8.224	56	3190	1.300	ug/l #	6
36) 1,1-Dichloropropene	8.224	75	11995	4.728	ug/l #	48
37) Ethyl Acetate	7.571	43	2017	0.942	ug/l #	74
38) Carbon Tetrachloride	8.218	117	16108	4.829	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	671	0.242	ug/l #	74
43) Isopropyl Acetate	8.688	43	108511	23.395	ug/l #	81
45) 1,2-Dichloropropane	9.735	63	1116	0.616	ug/l #	44
48) Methyl methacrylate	9.653	41	2685	1.754	ug/l #	8
51) 4-Methyl-2-Pentanone	10.435	43	6847	3.347	ug/l #	66
54) cis-1,3-Dichloropropene	10.353	75	32550	10.669	ug/l #	71
56) Ethyl methacrylate	10.982	69	1832	0.965	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	4925	1.554	ug/l #	42
59) 2-Hexanone	11.200	43	46394	31.133	ug/l #	57
71) Bromoform	12.847	173	794	0.422	ug/l #	1
74) N-amyl acetate	12.459	43	941	0.433	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	53681	25.207	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53681	66.642	ug/l #	16

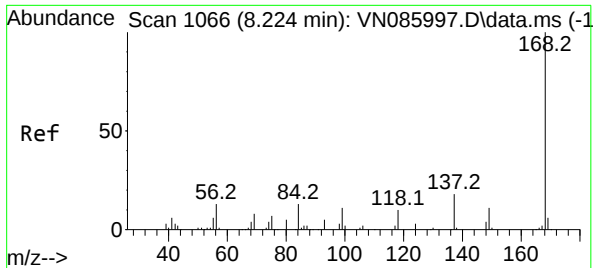
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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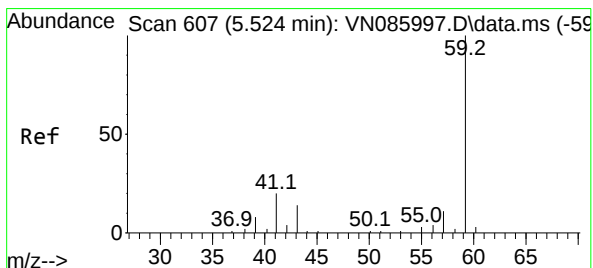
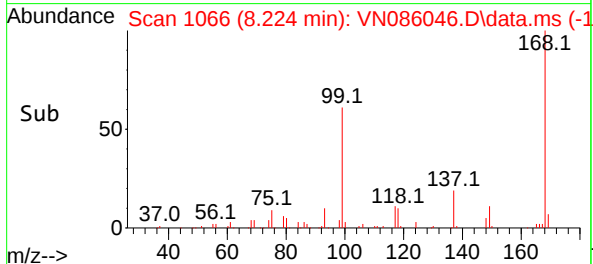
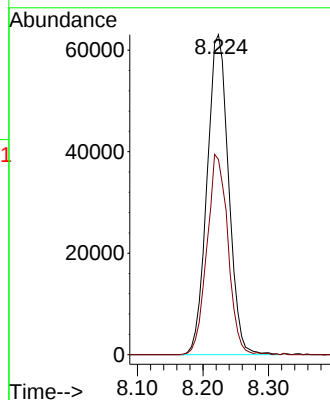
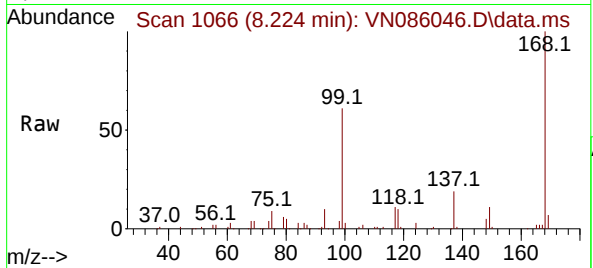




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

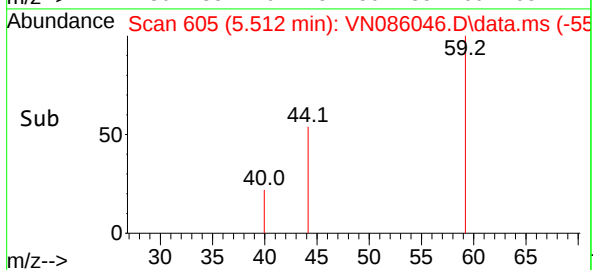
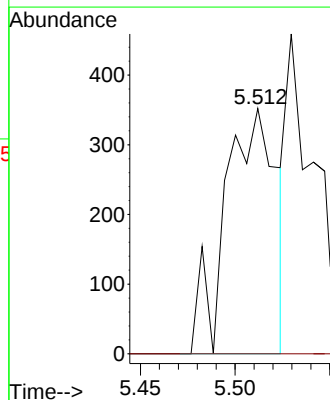
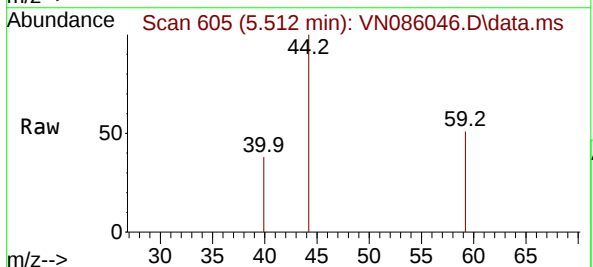
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

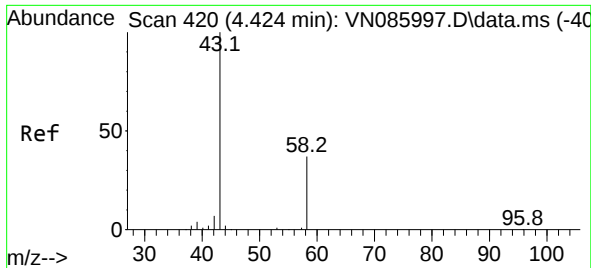
Tgt Ion:168 Resp: 143796
Ion Ratio Lower Upper
168 100
99 61.0 49.4 74.2



#11
Tert butyl alcohol
Concen: 2.378 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 59 Resp: 663
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

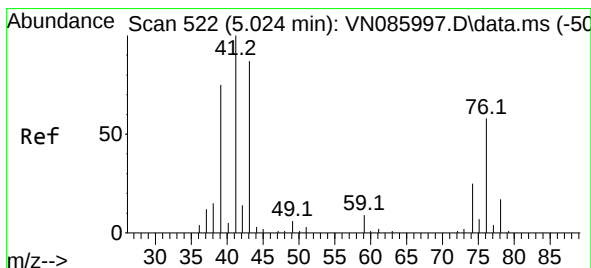
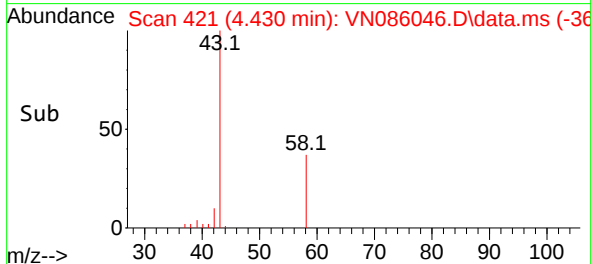
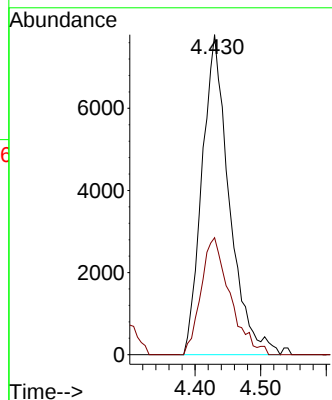
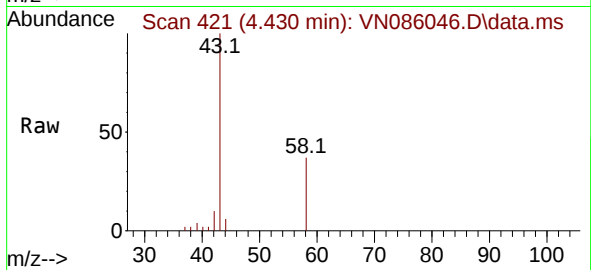




#16
Acetone
Concen: 37.369 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

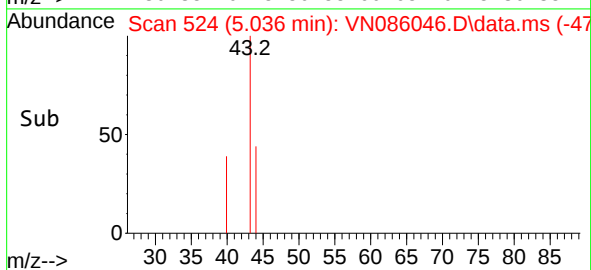
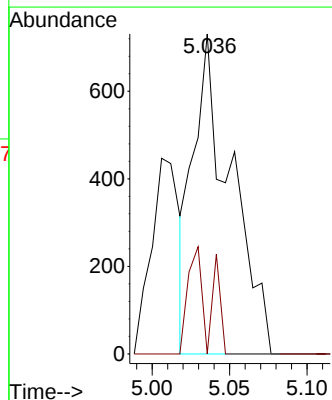
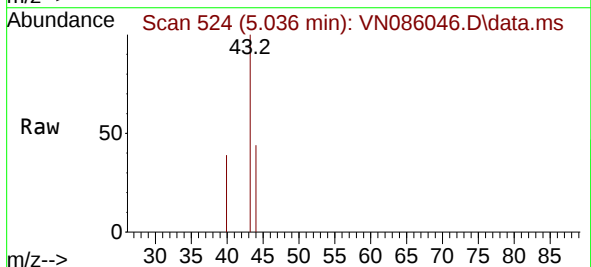
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

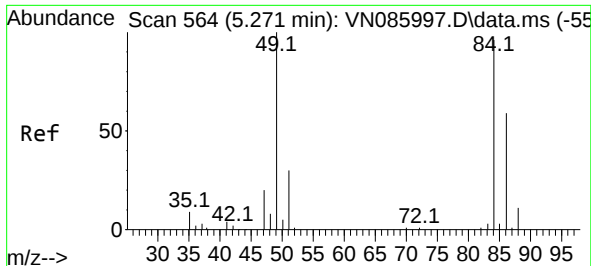
Tgt Ion: 43 Resp: 22480
Ion Ratio Lower Upper
43 100
58 36.5 29.4 44.2



#18
Methyl Acetate
Concen: 0.834 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.011 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

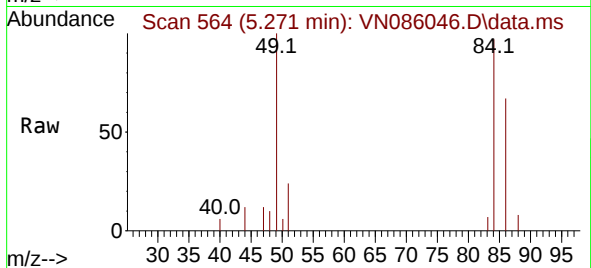
Tgt Ion: 43 Resp: 1242
Ion Ratio Lower Upper
43 100
74 18.8 23.9 35.9#



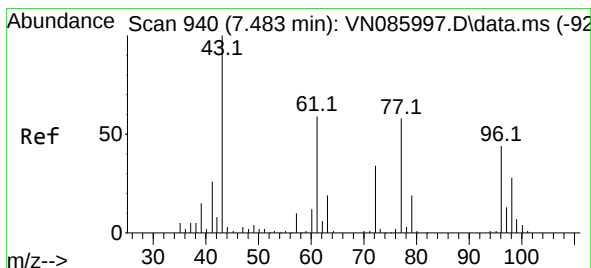
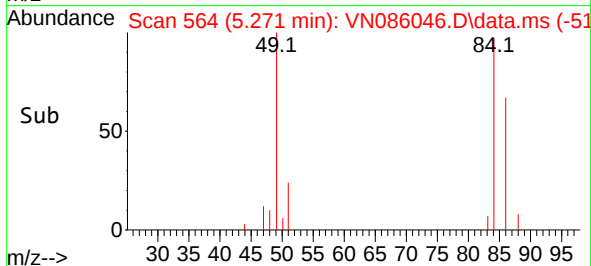
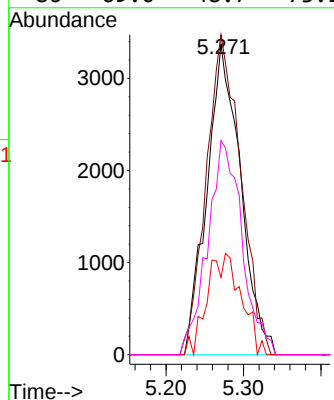


#20
Methylene Chloride
Concen: 5.772 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

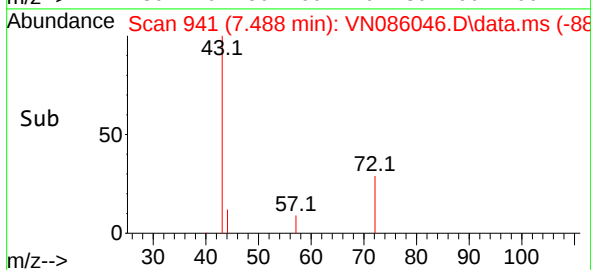
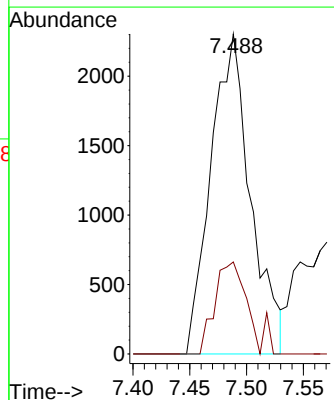
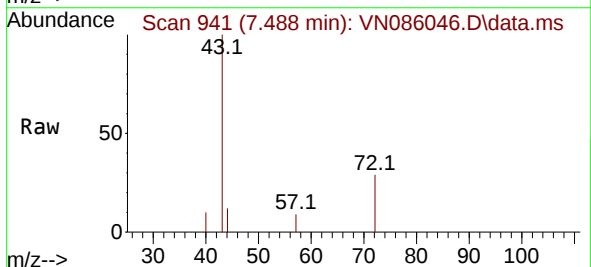


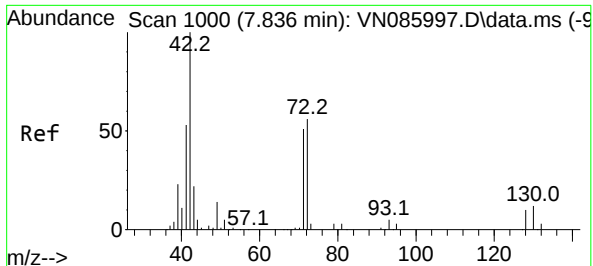
Tgt Ion:	84	Resp:	10158
Ion	Ratio	Lower	Upper
84	100		
49	103.0	83.3	124.9
51	24.9	24.8	37.2
86	69.0	48.7	73.1



#25
2-Butanone
Concen: 6.458 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion:	43	Resp:	5606
Ion	Ratio	Lower	Upper
43	100		
72	28.7	27.4	41.0





#29

Tetrahydrofuran

Concen: 0.351 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN086046.D

Acq: 21 Mar 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#06

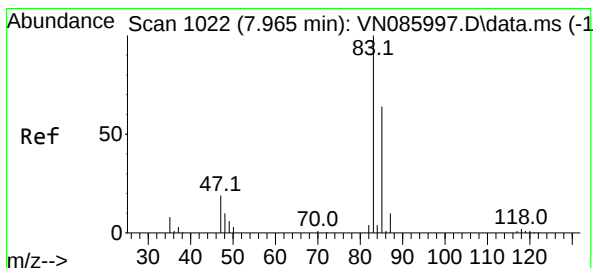
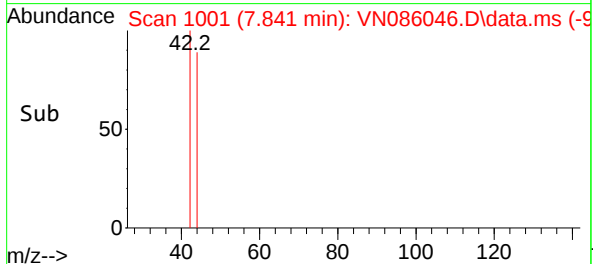
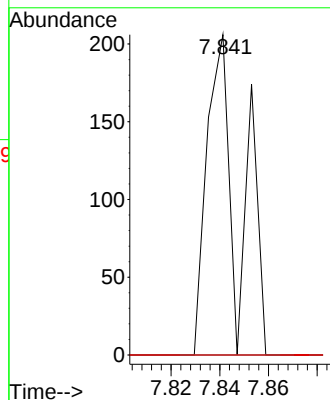
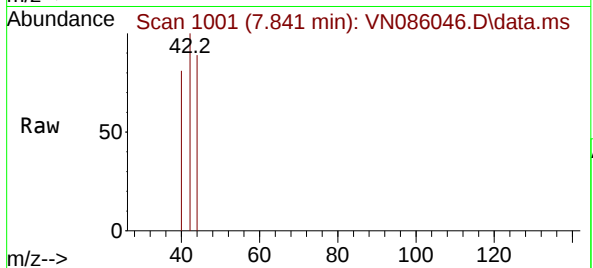
Tgt Ion: 42 Resp: 188

Ion Ratio Lower Upper

42 100

72 0.0 45.0 67.4#

71 0.0 41.9 62.9#



#30

Chloroform

Concen: 0.365 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086046.D

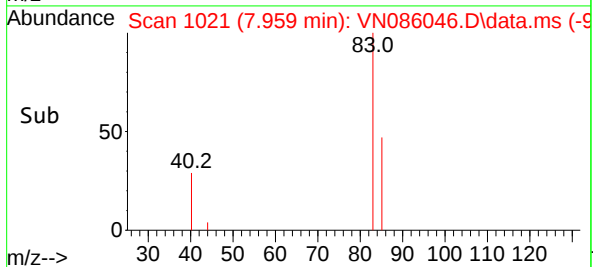
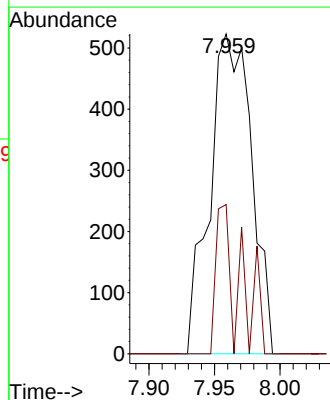
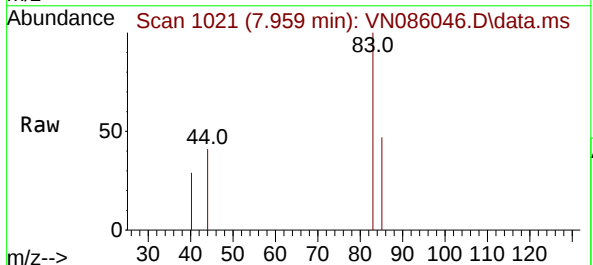
Acq: 21 Mar 2025 17:42

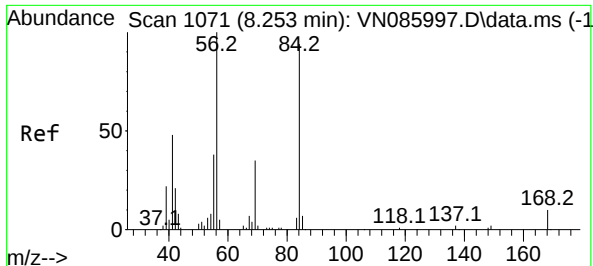
Tgt Ion: 83 Resp: 1163

Ion Ratio Lower Upper

83 100

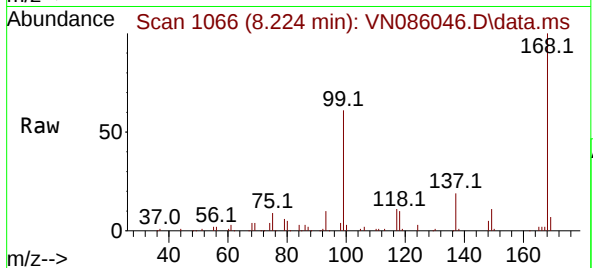
85 46.7 51.5 77.3#



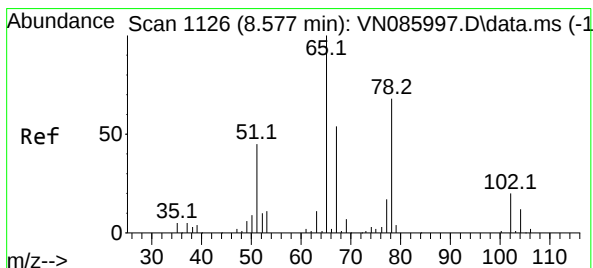
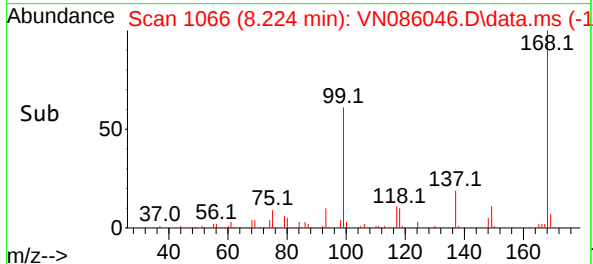
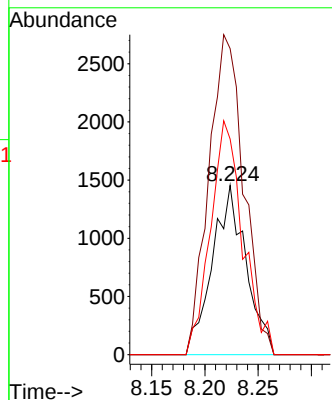


#31
Cyclohexane
Concen: 1.300 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Instrument :
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ClientSampleId :
PB167234ZHE#06

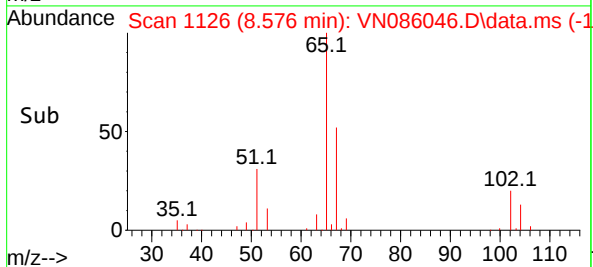
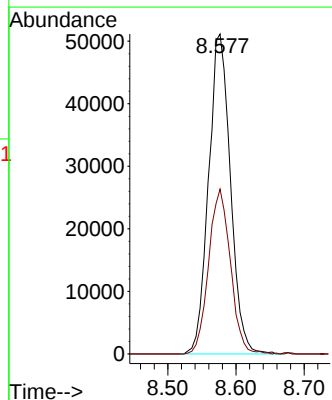
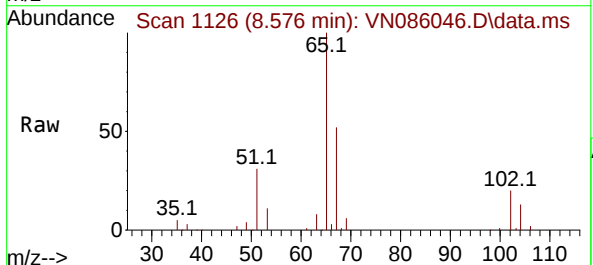


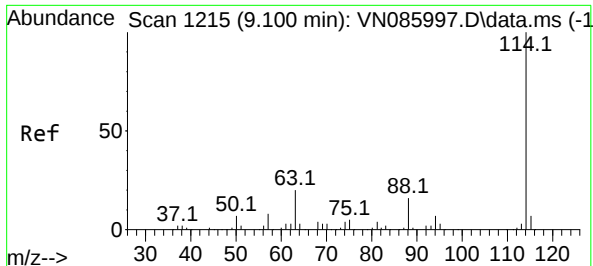
Tgt Ion: 56 Resp: 3190
Ion Ratio Lower Upper
56 100
69 180.9 28.0 42.0#
84 127.4 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 58.044 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 65 Resp: 114291
Ion Ratio Lower Upper
65 100
67 51.3 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: VN086046.D

Acq: 21 Mar 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#06

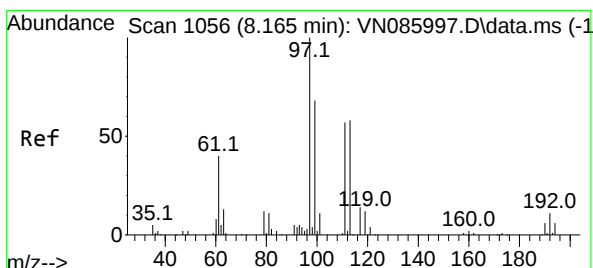
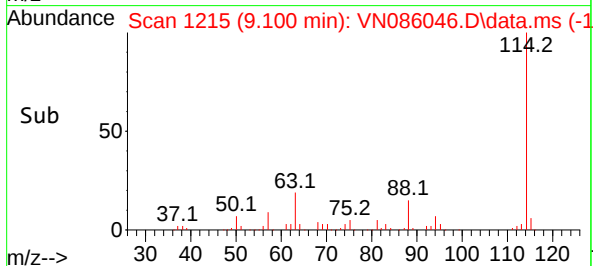
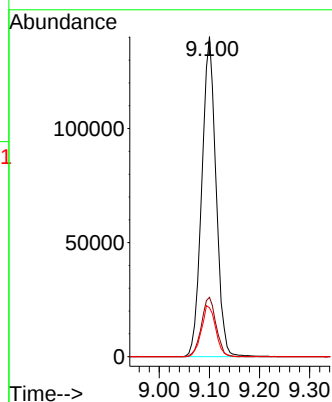
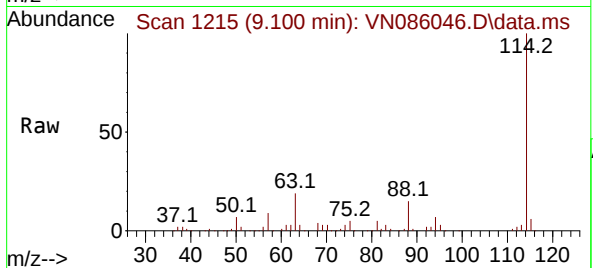
Tgt Ion:114 Resp: 276054

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.6

88 15.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.789 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086046.D

Acq: 21 Mar 2025 17:42

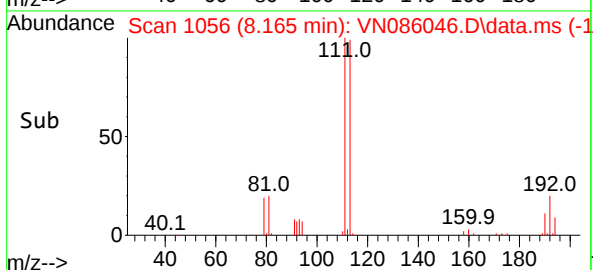
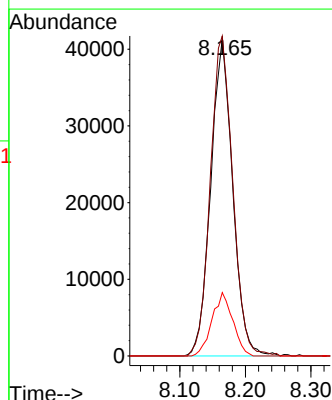
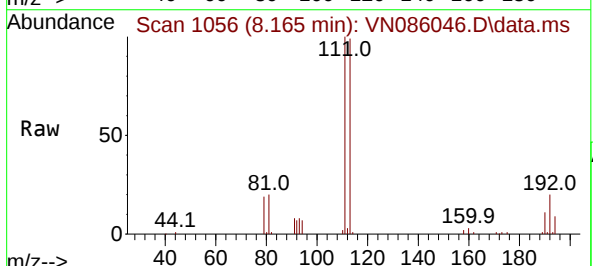
Tgt Ion:113 Resp: 95934

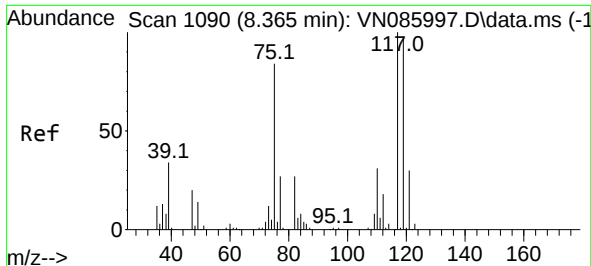
Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

192 19.0 15.9 23.9

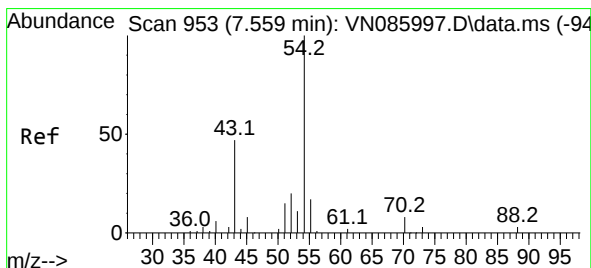
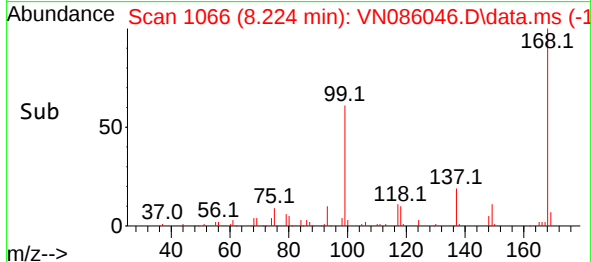
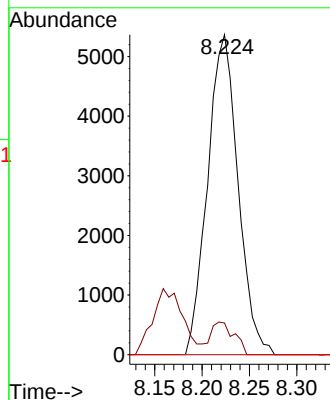
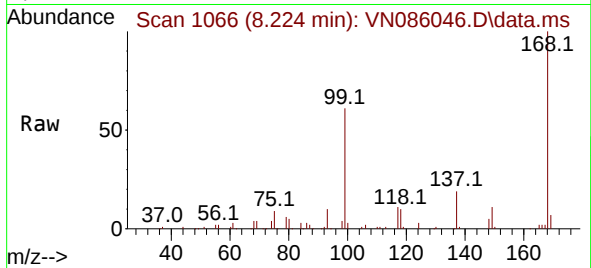




#36
1,1-Dichloropropene
Concen: 4.728 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

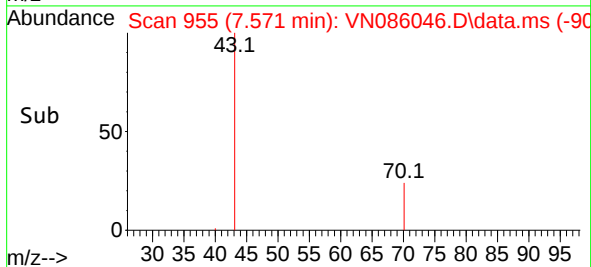
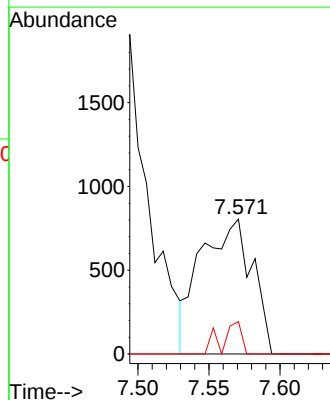
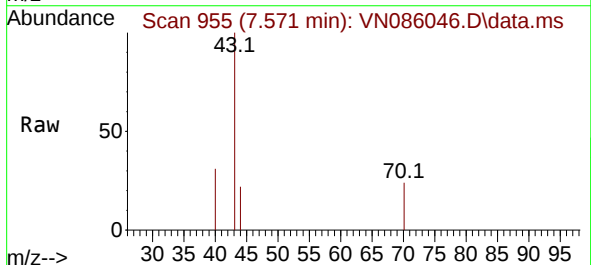
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

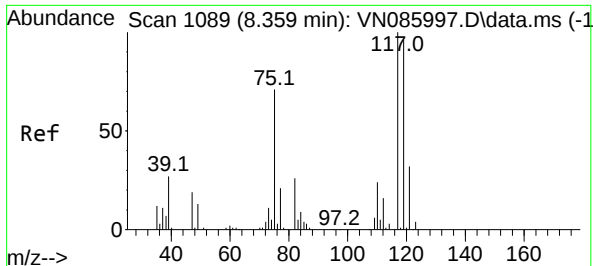
Tgt Ion: 75 Resp: 11995
Ion Ratio Lower Upper
75 100
110 7.8 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.942 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.011 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 43 Resp: 2017
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 9.0 11.0 16.6#

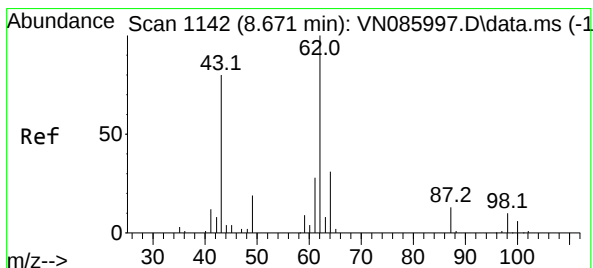
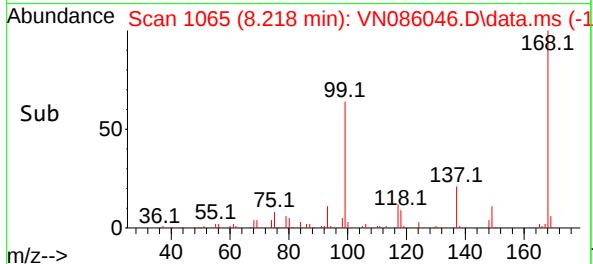
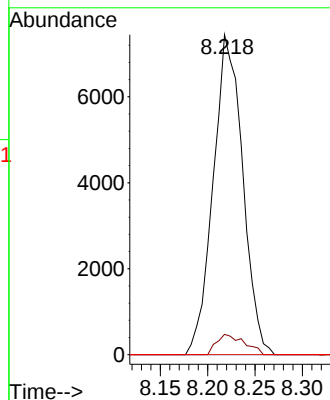
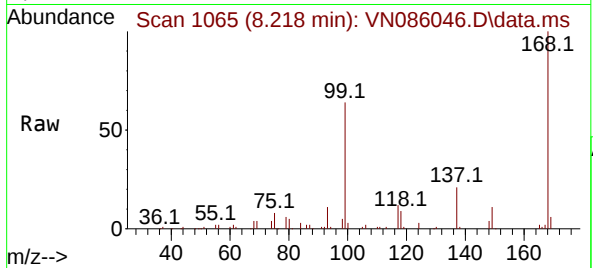




#38
Carbon Tetrachloride
Concen: 4.829 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

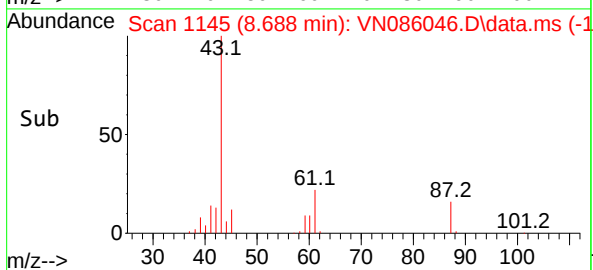
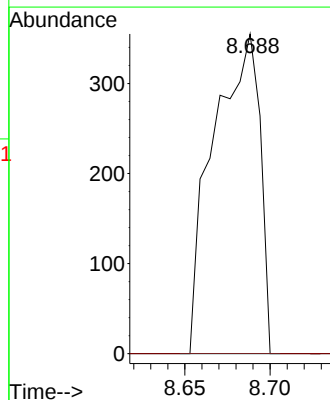
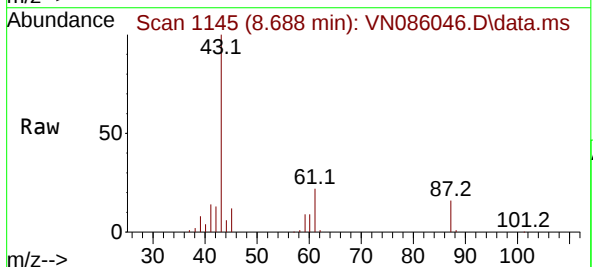
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

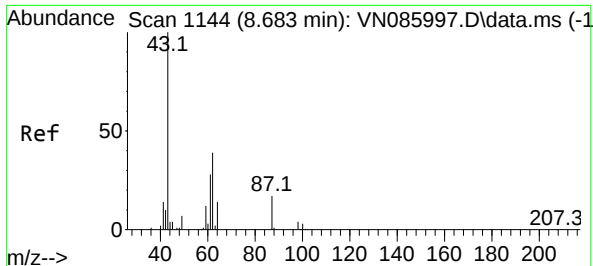
Tgt Ion:117 Resp: 16108
Ion Ratio Lower Upper
117 100
119 6.4 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.242 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.017 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 62 Resp: 671
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

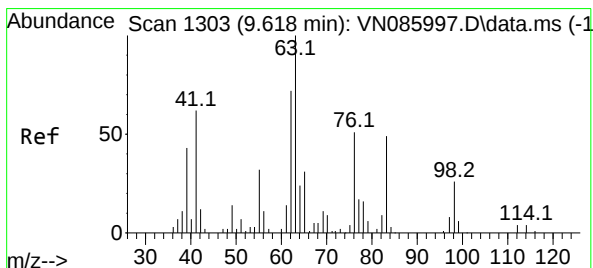
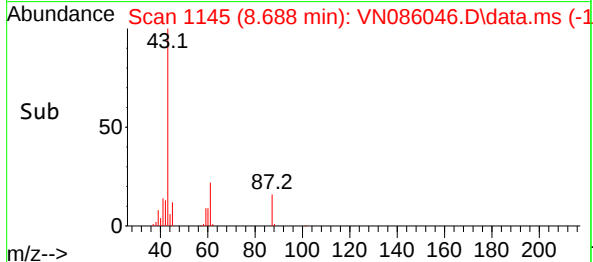
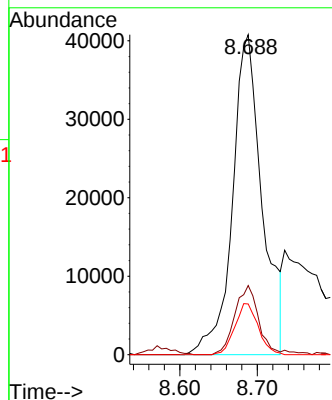
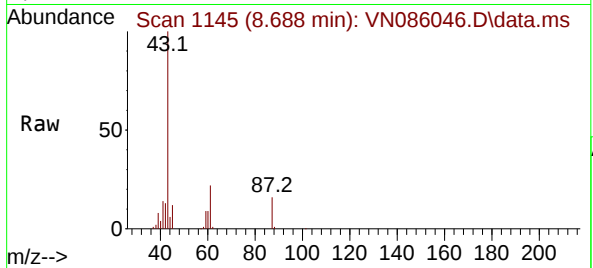




#43
Isopropyl Acetate
Concen: 23.395 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

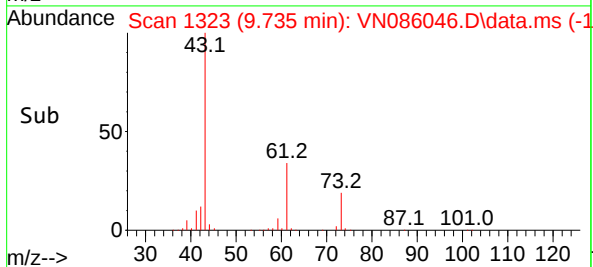
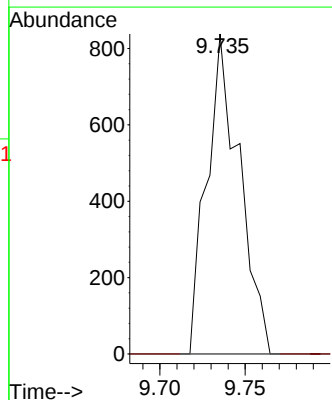
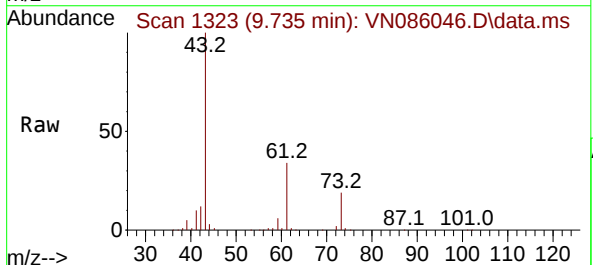
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

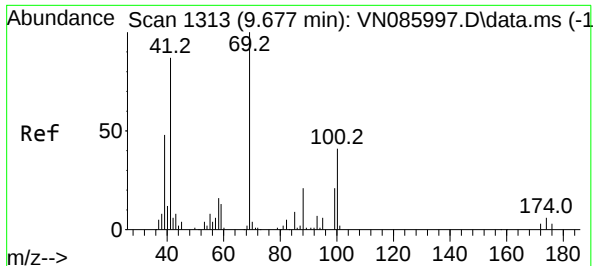
Tgt Ion: 43 Resp: 108511
Ion Ratio Lower Upper
43 100
61 17.9 25.0 37.6#
87 12.6 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.616 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 63 Resp: 1116
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 1.754 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086046.D

Acq: 21 Mar 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#06

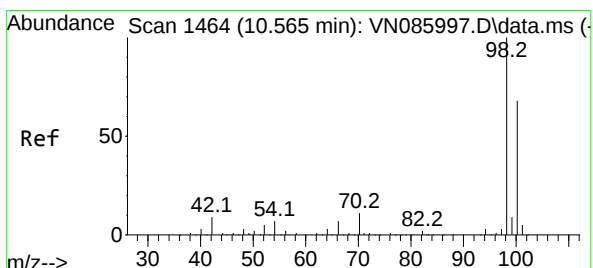
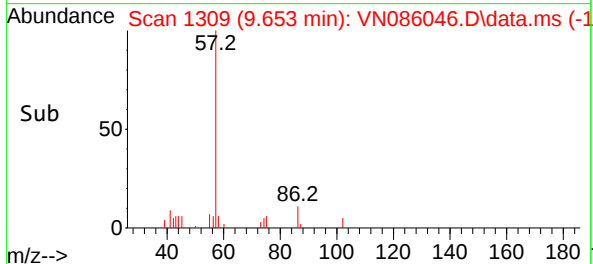
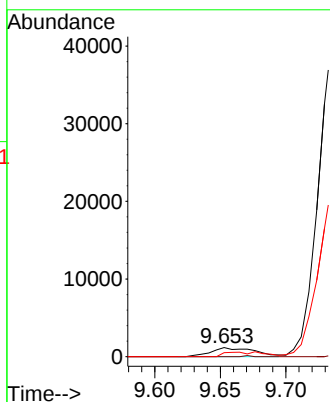
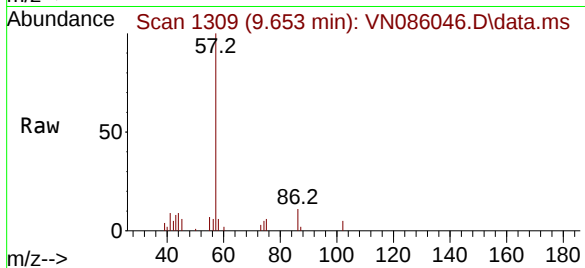
Tgt Ion: 41 Resp: 2685

Ion Ratio Lower Upper

41 100

69 2.0 83.1 124.7#

39 0.0 45.6 68.4#



#50

Toluene-d8

Concen: 50.262 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086046.D

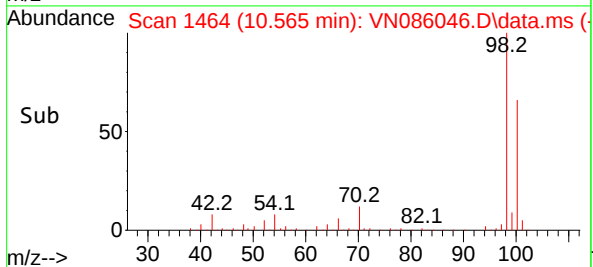
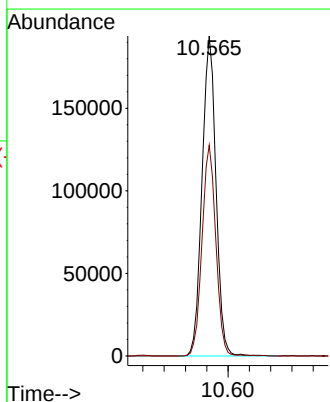
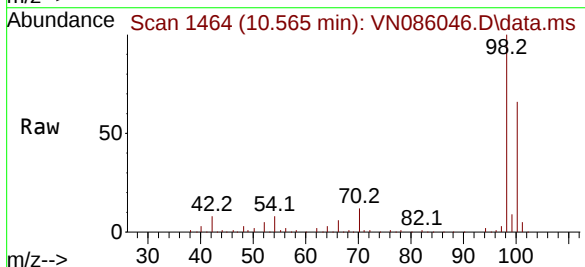
Acq: 21 Mar 2025 17:42

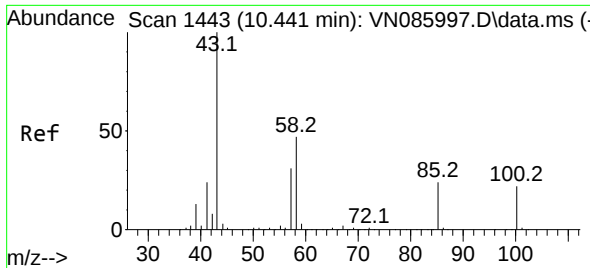
Tgt Ion: 98 Resp: 351481

Ion Ratio Lower Upper

98 100

100 65.4 53.1 79.7

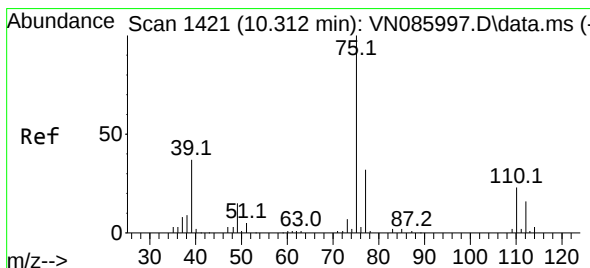
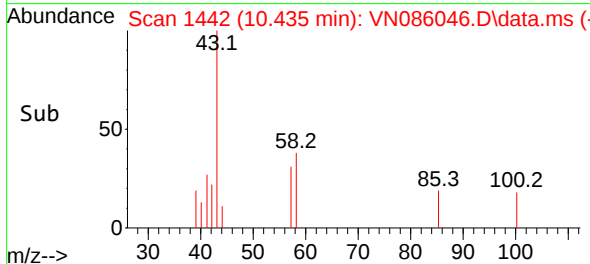
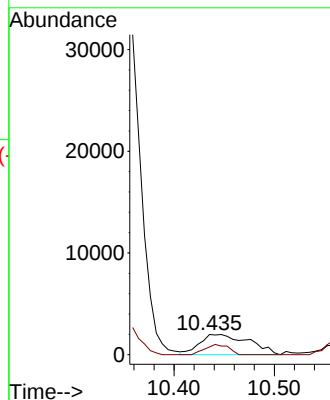
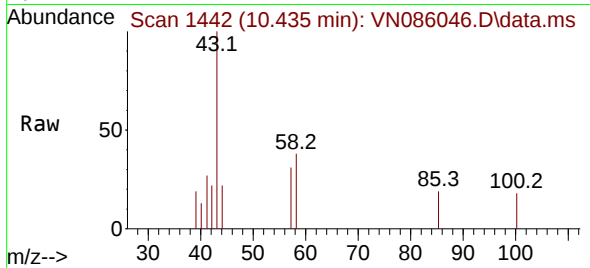




#51
4-Methyl-2-Pentanone
Concen: 3.347 ug/l
RT: 10.435 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

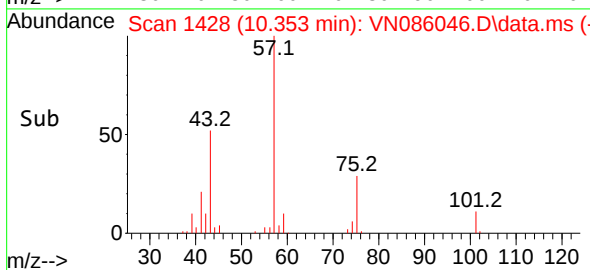
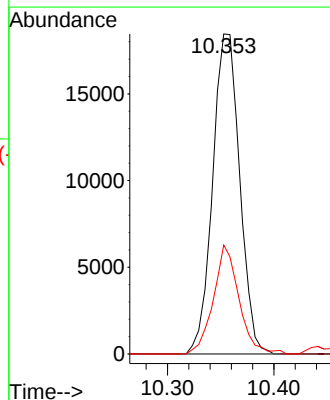
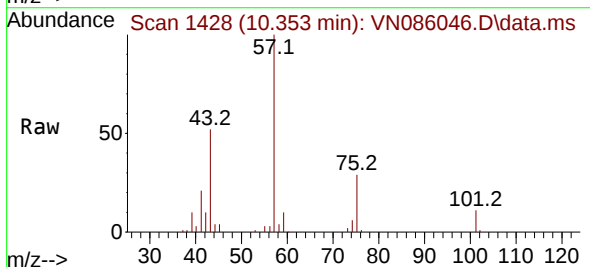
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

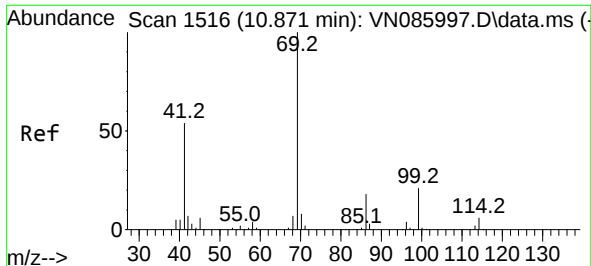
Tgt Ion: 43 Resp: 6847
Ion Ratio Lower Upper
43 100
58 23.8 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 10.669 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 75 Resp: 32550
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 34.0 29.6 44.4

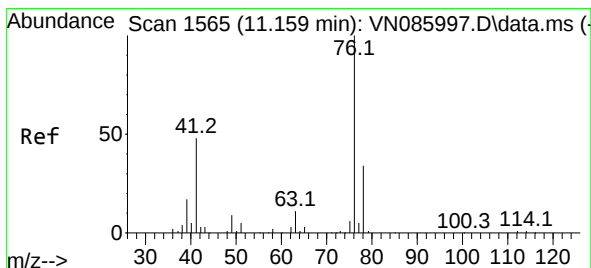
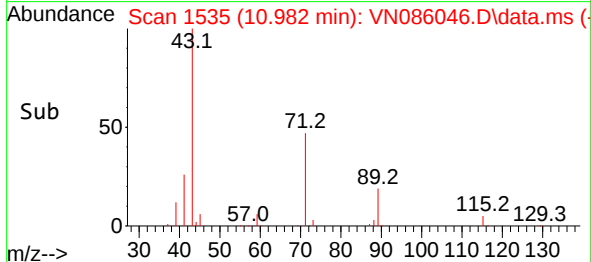
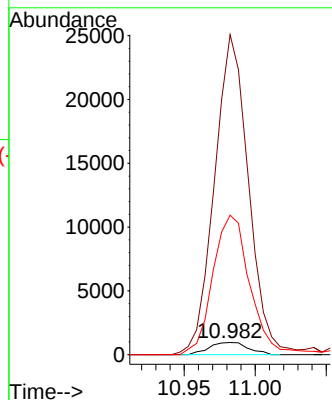
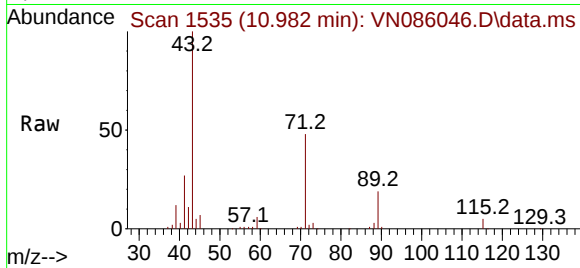




#56
Ethyl methacrylate
Concen: 0.965 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

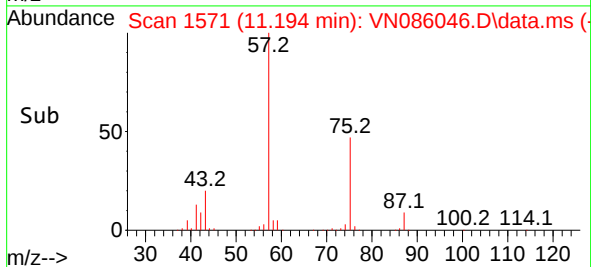
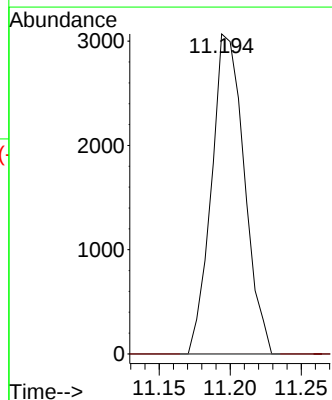
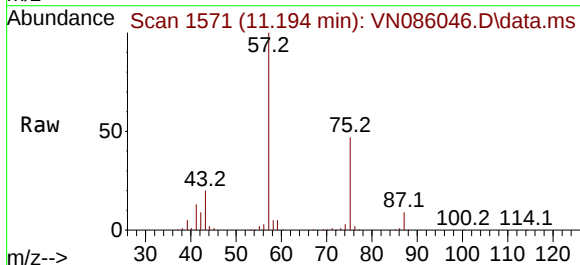
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

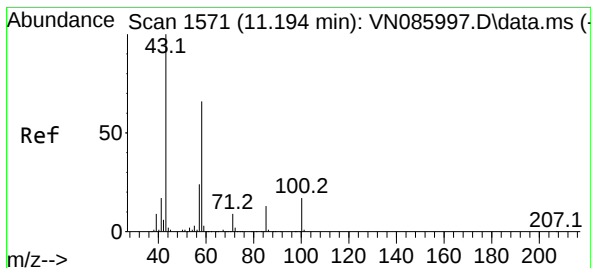
Tgt Ion: 69 Resp: 1832
Ion Ratio Lower Upper
69 100
41 2288.8 41.6 62.4#
39 1090.6 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.554 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 76 Resp: 4925
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

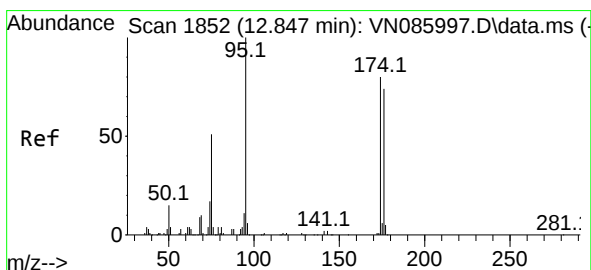
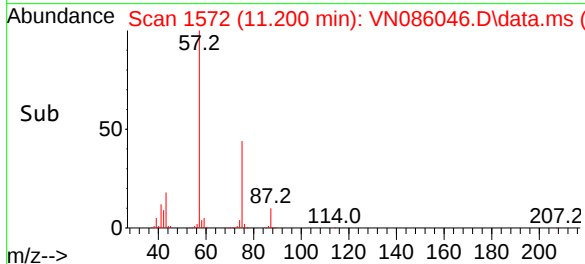
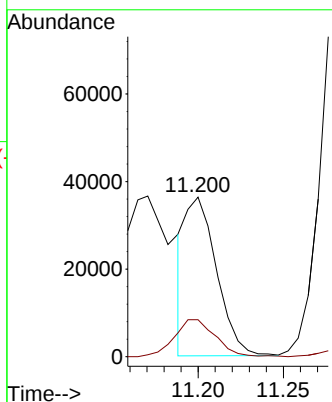
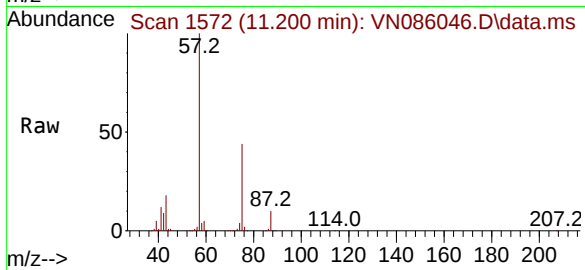




#59
2-Hexanone
Concen: 31.133 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

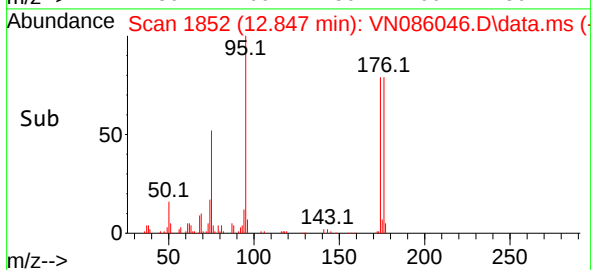
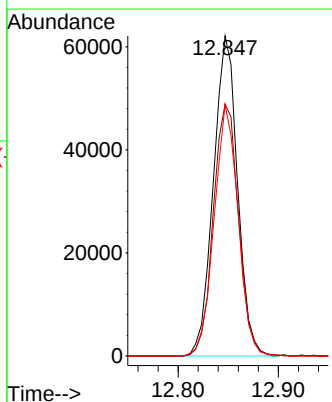
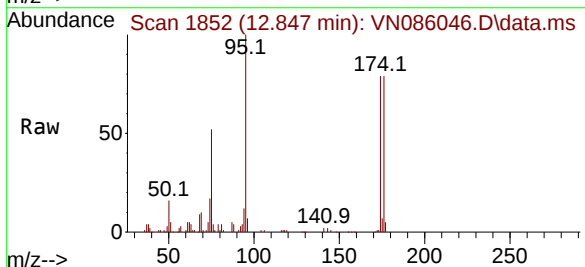
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

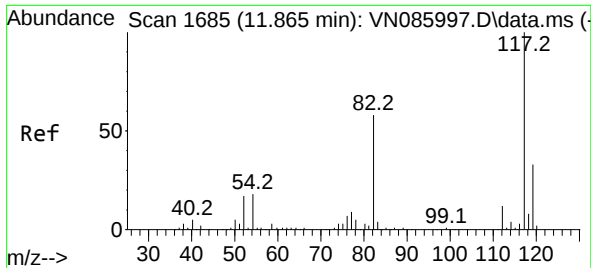
Tgt Ion: 43 Resp: 46394
Ion Ratio Lower Upper
43 100
58 30.8 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 41.567 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 95 Resp: 103664
Ion Ratio Lower Upper
95 100
174 82.4 0.0 156.8
176 78.1 0.0 152.2

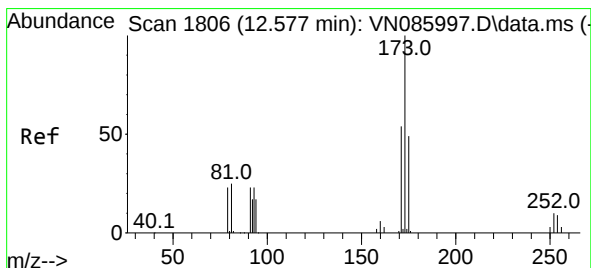
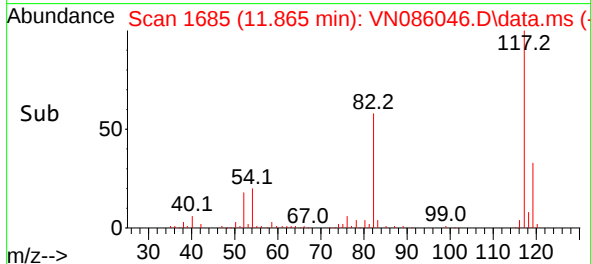
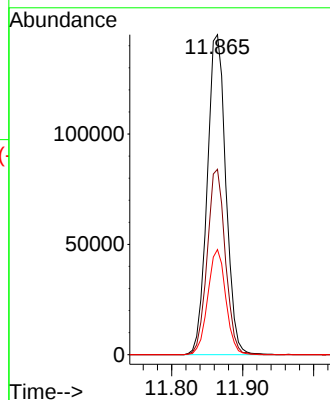
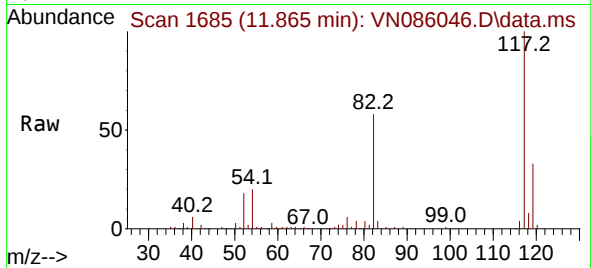




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

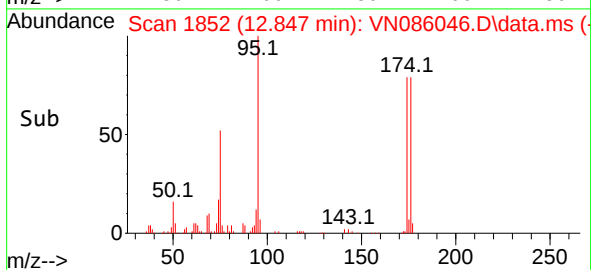
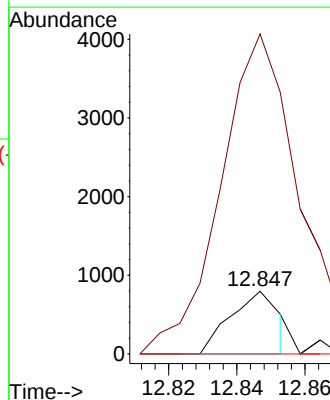
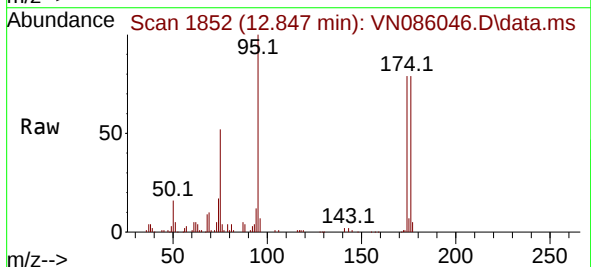
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

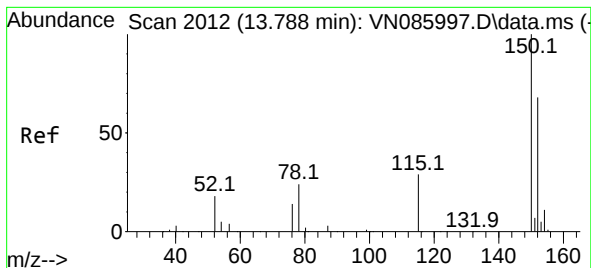
Tgt Ion:117 Resp: 264482
Ion Ratio Lower Upper
117 100
82 58.0 46.7 70.1
119 32.8 26.5 39.7



#71
Bromoform
Concen: 0.422 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion:173 Resp: 794
Ion Ratio Lower Upper
173 100
175 644.3 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# 20

Delta R.T. -0.000 min

Lab File: VN086046.D

Acq: 21 Mar 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#06

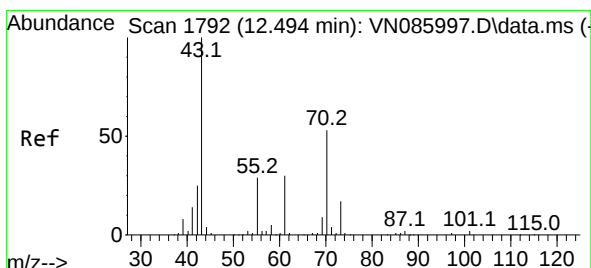
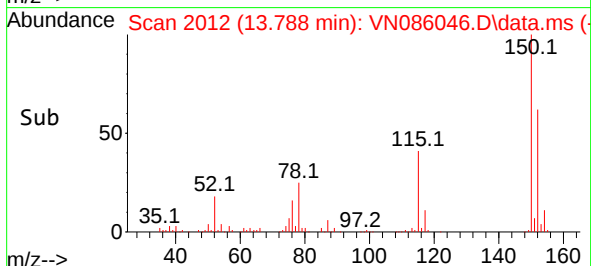
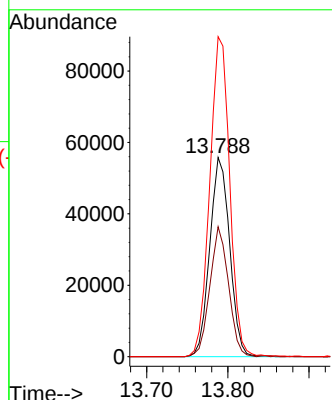
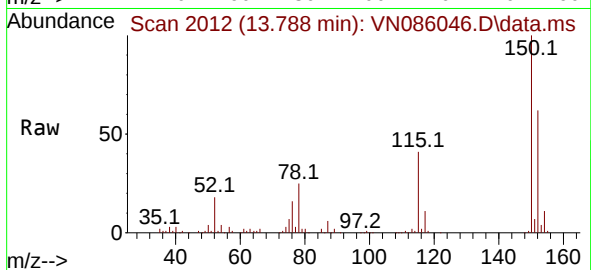
Tgt Ion:152 Resp: 95124

Ion Ratio Lower Upper

152 100

115 61.0 31.1 93.2

150 161.0 0.0 359.6



#74

N-ethyl acetate

Concen: 0.433 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.036 min

Lab File: VN086046.D

Acq: 21 Mar 2025 17:42

Tgt Ion: 43 Resp: 941

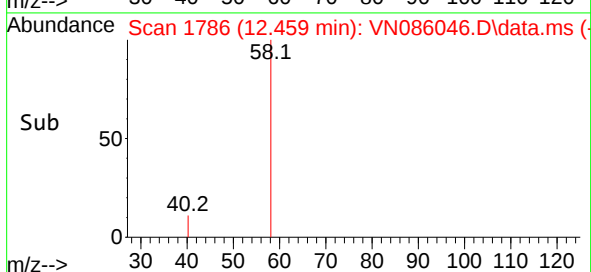
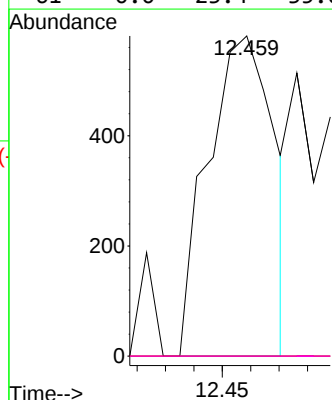
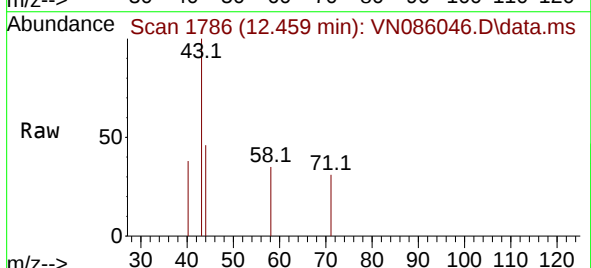
Ion Ratio Lower Upper

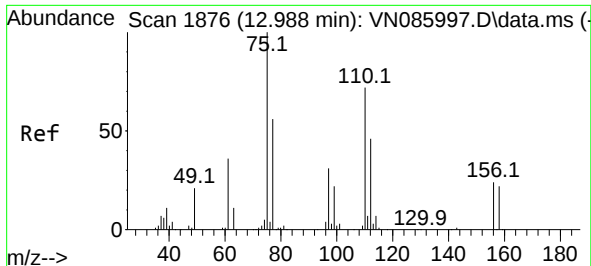
43 100

70 0.0 43.0 64.4#

55 0.0 23.8 35.8#

61 0.0 23.4 35.0#

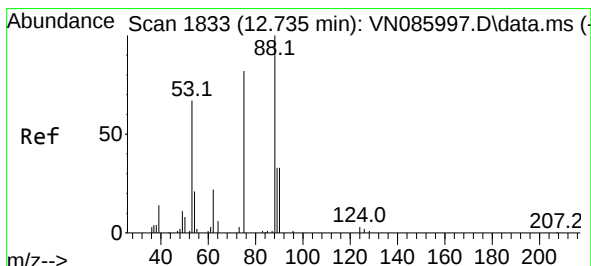
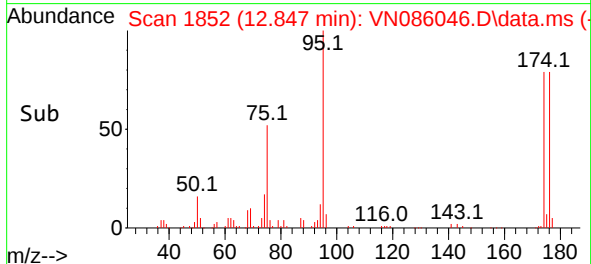
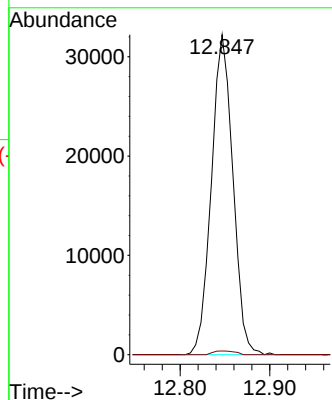
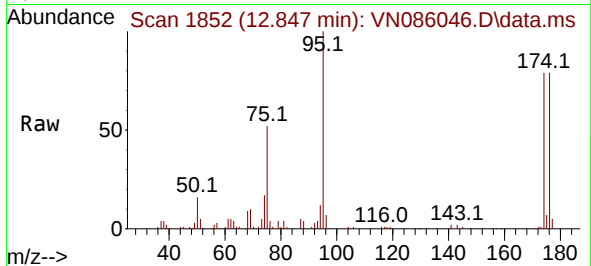




#76
1,2,3-Trichloropropane
Concen: 25.207 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#06

Tgt Ion: 75 Resp: 53681
Ion Ratio Lower Upper
75 100
77 1.2 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.642 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086046.D
Acq: 21 Mar 2025 17:42

Tgt Ion: 75 Resp: 53681
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#

