

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
 Data File : VN085946.D
 Acq On : 11 Mar 2025 21:05
 Operator : JC\MD
 Sample : Q1534-18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 12 01:30:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

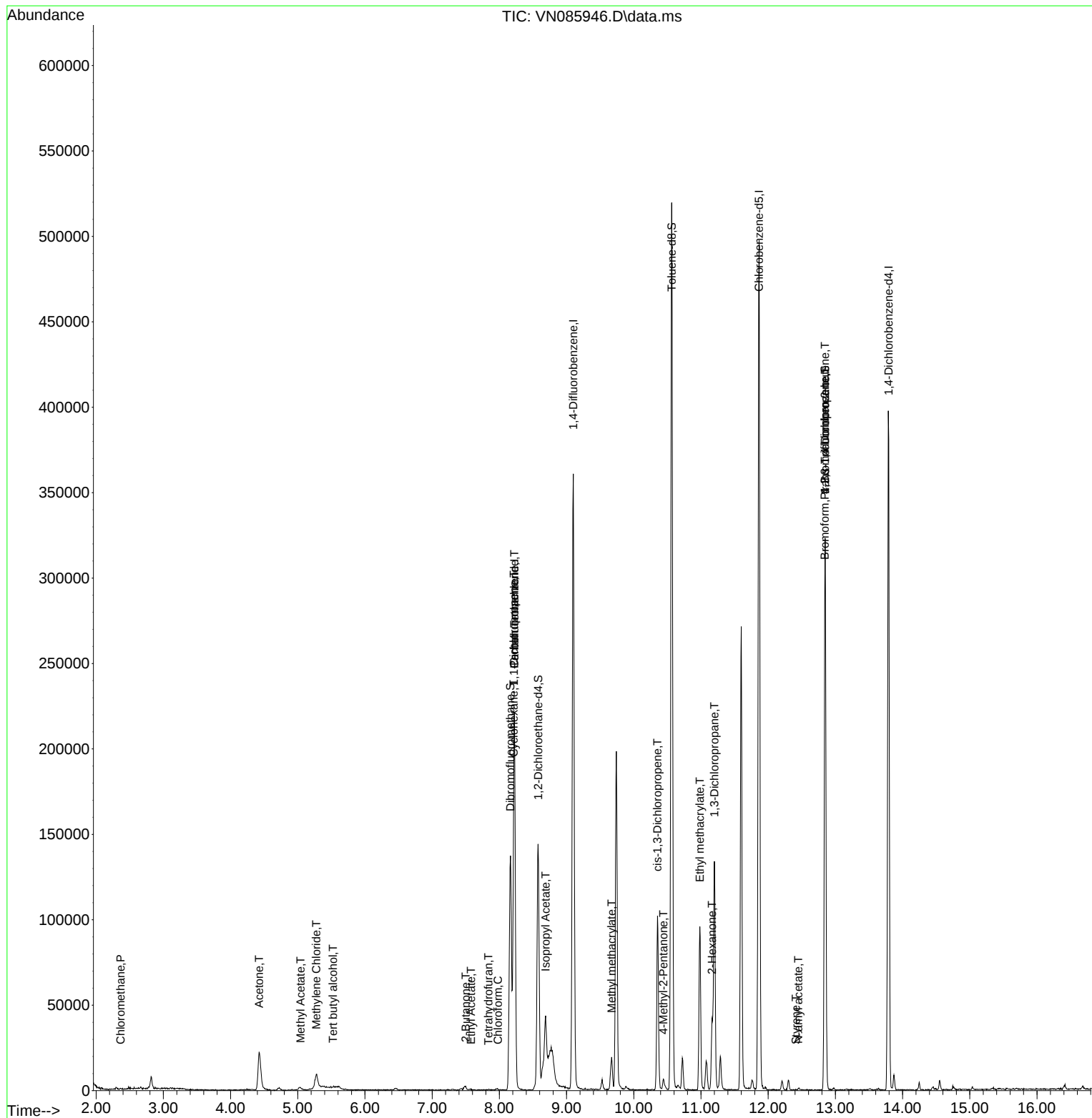
Internal Standards						
1) Pentafluorobenzene	8.224	168	154562	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	302708	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291370	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	110784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119680	59.725	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 119.460%		
35) Dibromofluoromethane	8.165	113	100523	50.749	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.500%		
50) Toluene-d8	10.565	98	371260	51.516	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 103.040%		
62) 4-Bromofluorobenzene	12.847	95	115045	48.452	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 96.900%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	437	0.207	ug/l #	41
11) Tert butyl alcohol	5.524	59	926	3.757	ug/l #	72
16) Acetone	4.424	43	41349	65.214	ug/l	93
18) Methyl Acetate	5.042	43	3554	1.630	ug/l #	87
20) Methylene Chloride	5.277	84	6575	3.225	ug/l	95
25) 2-Butanone	7.500	43	4083	4.377	ug/l	91
29) Tetrahydrofuran	7.835	42	131	0.217	ug/l #	86
30) Chloroform	7.977	83	839	0.235	ug/l #	75
31) Cyclohexane	8.212	56	3299	1.153	ug/l #	37
36) 1,1-Dichloropropene	8.218	75	13388	4.776	ug/l #	49
37) Ethyl Acetate	7.577	43	834	0.362	ug/l #	66
38) Carbon Tetrachloride	8.224	117	16641	4.996	ug/l #	17
43) Isopropyl Acetate	8.688	43	53843	12.893	ug/l #	76
48) Methyl methacrylate	9.671	41	1310	0.765	ug/l #	29
51) 4-Methyl-2-Pentanone	10.441	43	6135	2.758	ug/l #	70
54) cis-1,3-Dichloropropene	10.353	75	17903	5.395	ug/l #	70
56) Ethyl methacrylate	10.982	69	1118	0.874	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	1339	0.383	ug/l #	42
59) 2-Hexanone	11.165	43	33235	21.720	ug/l #	21
70) Styrene	12.412	104	67	0.595	ug/l #	26
71) Bromoform	12.841	173	523	0.293	ug/l #	27
74) N-amyl acetate	12.447	43	1165	0.435	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	57861	23.512	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	57861	68.603	ug/l #	13

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

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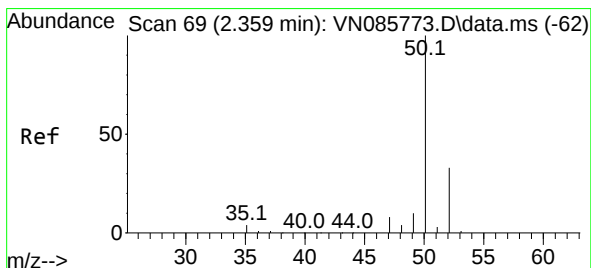
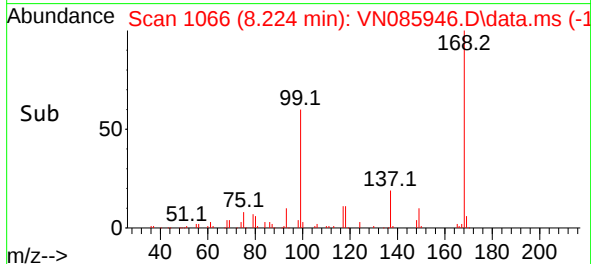
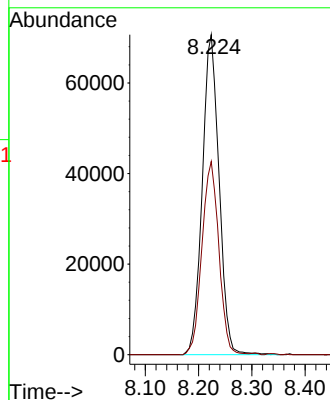
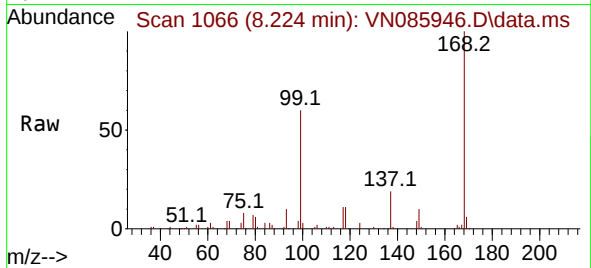




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

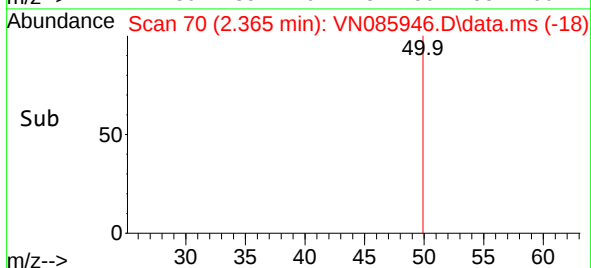
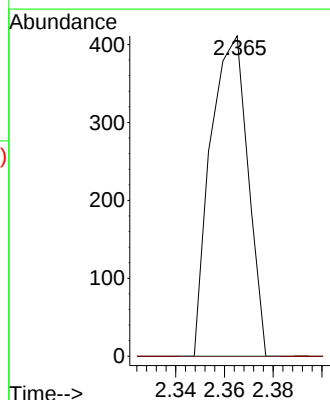
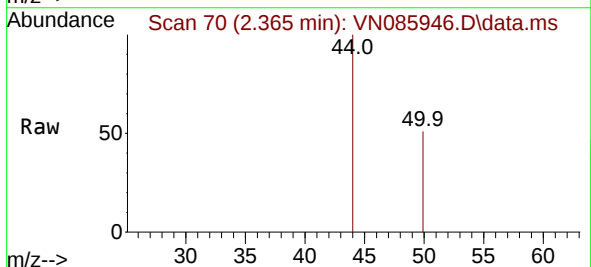
Instrument :
MSVOA_N
ClientSampleId :

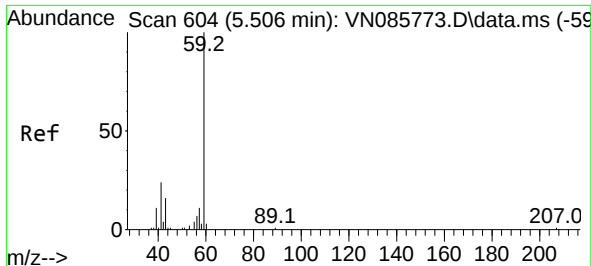
Tgt Ion:168 Resp: 154562
Ion Ratio Lower Upper
168 100
99 60.3 47.9 71.9



#3
Chloromethane
Concen: 0.207 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

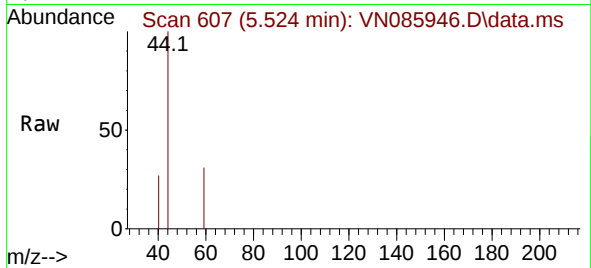
Tgt Ion: 50 Resp: 437
Ion Ratio Lower Upper
50 100
52 0.0 26.7 40.1#



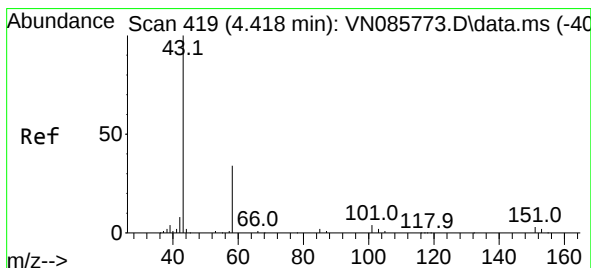
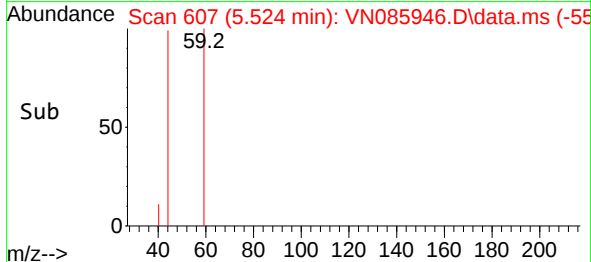
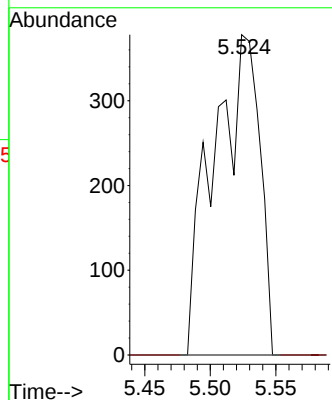


#11
Tert butyl alcohol
Concen: 3.757 ug/l
RT: 5.524 min Scan# 604
Delta R.T. 0.018 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Instrument :
MSVOA_N
ClientSampleId :

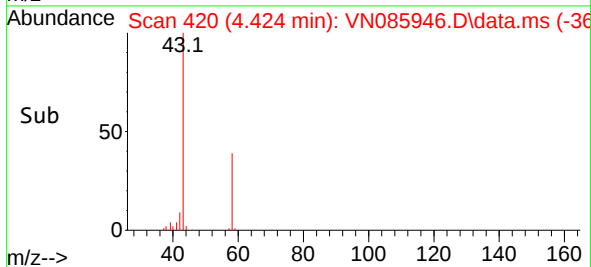
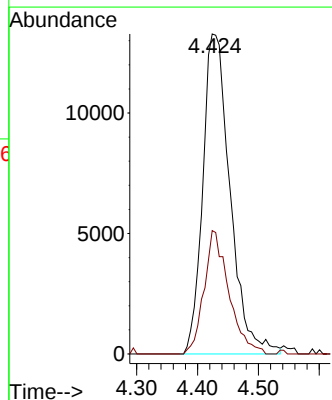
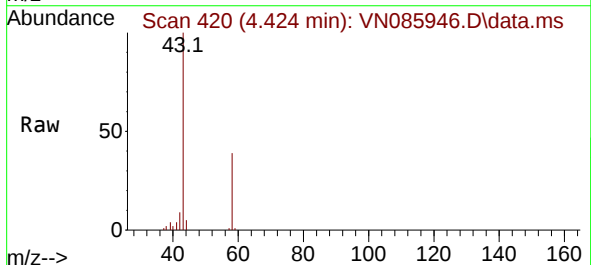


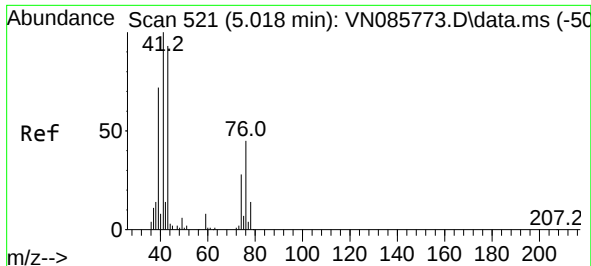
Tgt Ion: 59 Resp: 926
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 65.214 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

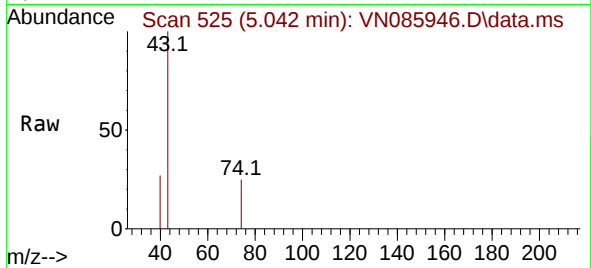
Tgt Ion: 43 Resp: 41349
Ion Ratio Lower Upper
43 100
58 38.6 27.5 41.3



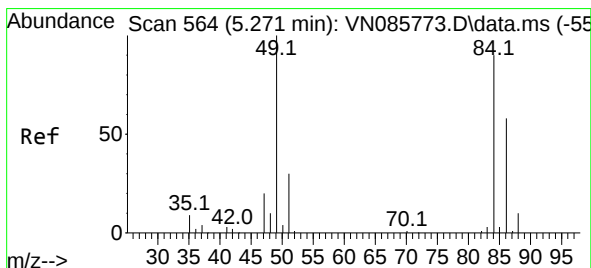
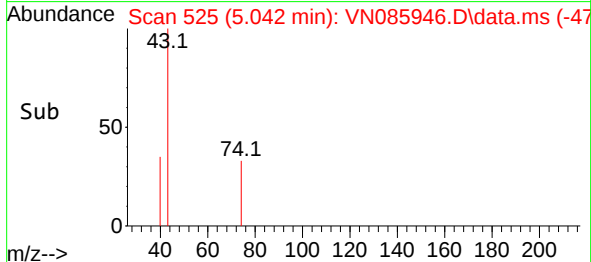
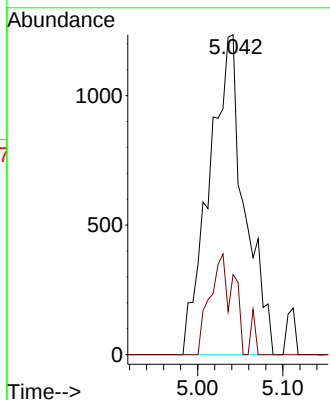


#18
Methyl Acetate
Concen: 1.630 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Instrument :
MSVOA_N
ClientSampleId :

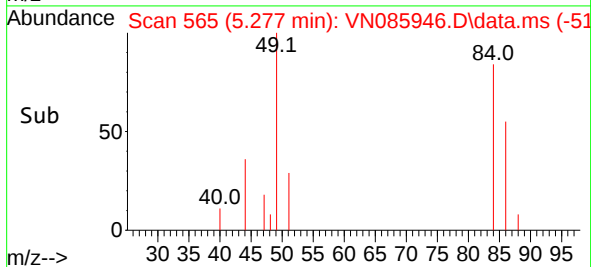
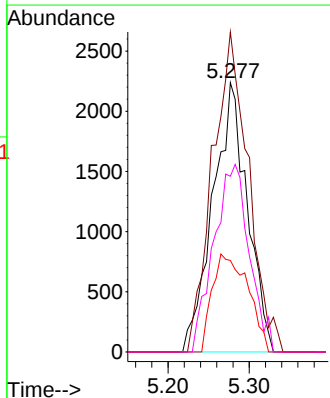
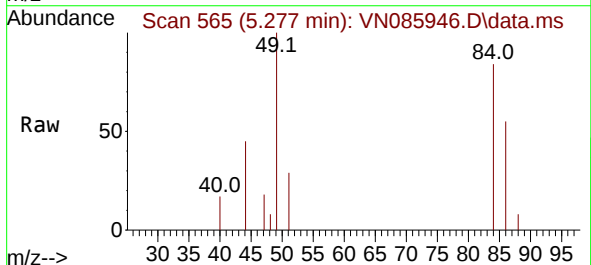


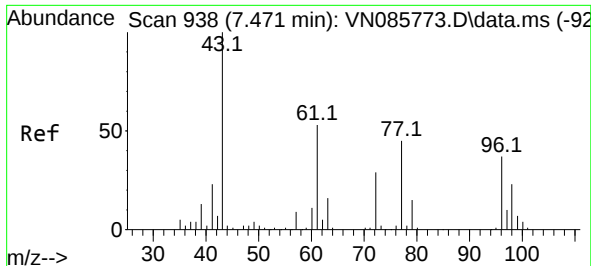
Tgt Ion: 43 Resp: 3554
Ion Ratio Lower Upper
43 100
74 21.0 22.2 33.4#



#20
Methylene Chloride
Concen: 3.225 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Tgt Ion: 84 Resp: 6575
Ion Ratio Lower Upper
84 100
49 118.9 88.4 132.6
51 34.0 26.6 40.0
86 65.3 51.0 76.6





#25

2-Butanone

Concen: 4.377 ug/l

RT: 7.500 min Scan# 94

Delta R.T. 0.029 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

Instrument :

MSVOA_N

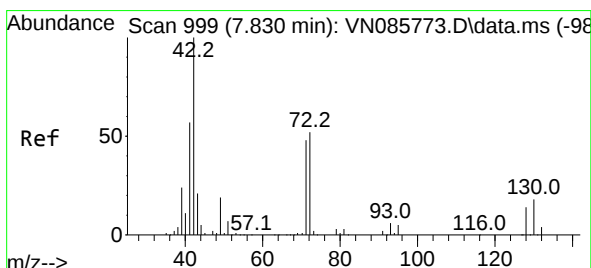
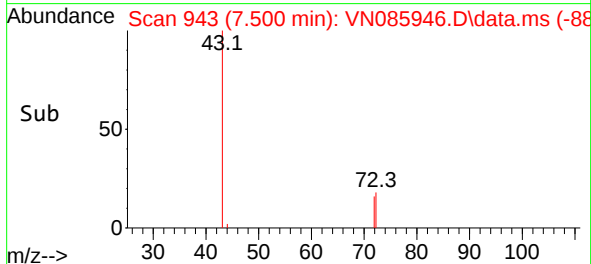
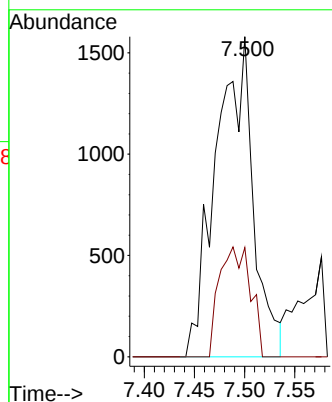
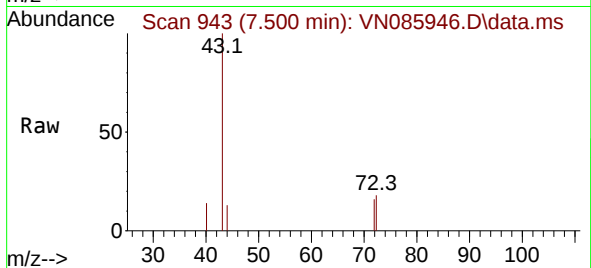
ClientSampleId :

Tgt Ion: 43 Resp: 4083

Ion Ratio Lower Upper

43 100

72 34.1 23.6 35.4



#29

Tetrahydrofuran

Concen: 0.217 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

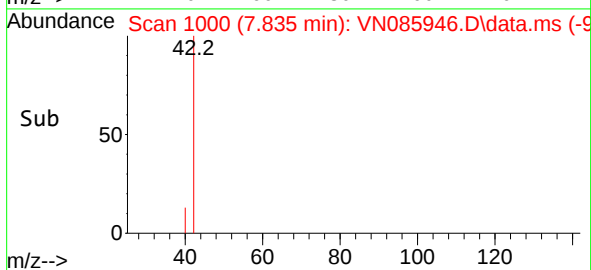
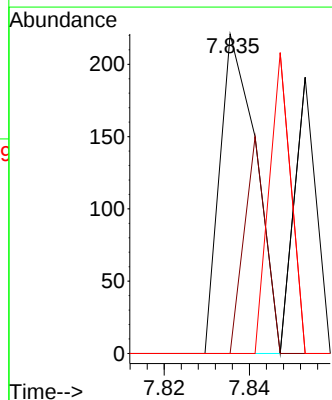
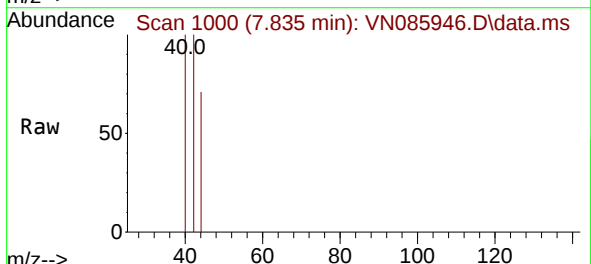
Tgt Ion: 42 Resp: 131

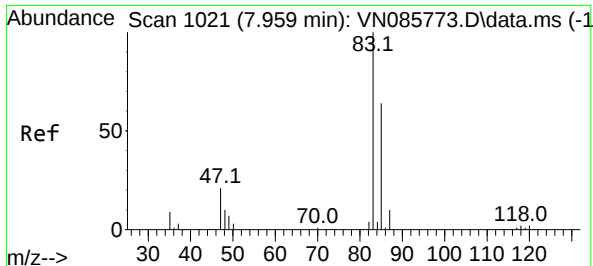
Ion Ratio Lower Upper

42 100

72 40.5 40.0 60.0

71 55.7 37.0 55.4#

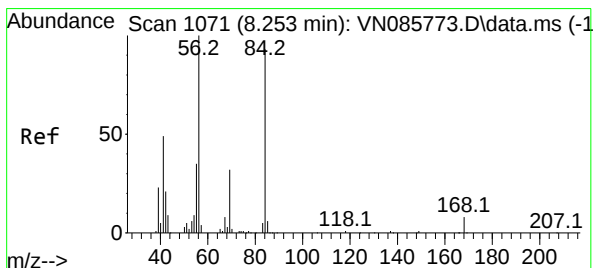
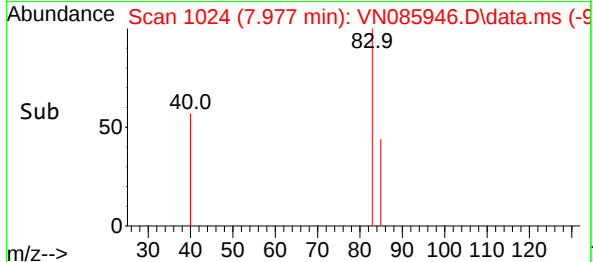
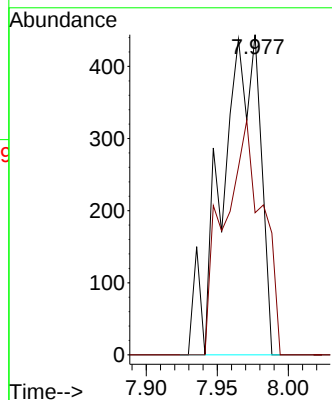
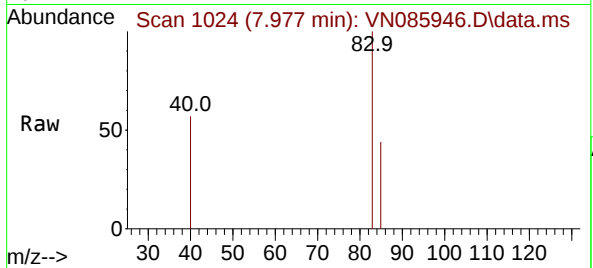




#30
Chloroform
Concen: 0.235 ug/l
RT: 7.977 min Scan# 1064
Delta R.T. 0.018 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

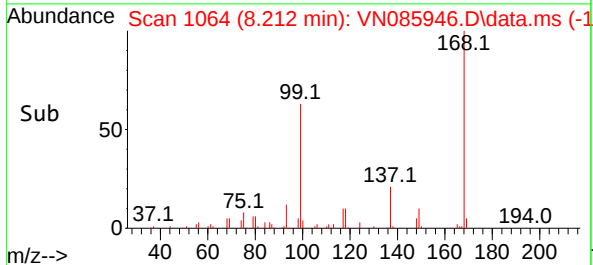
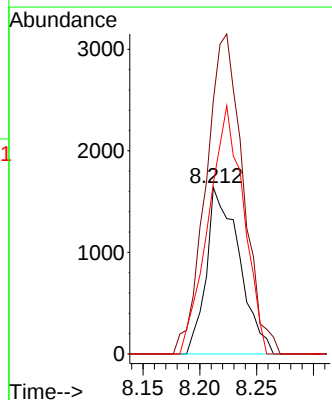
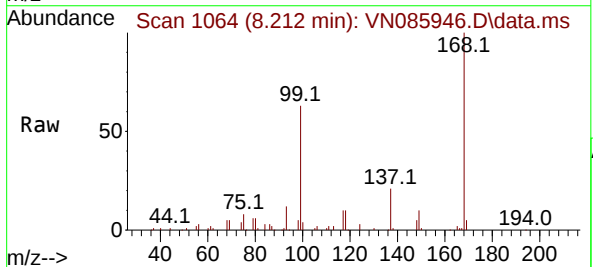
Instrument :
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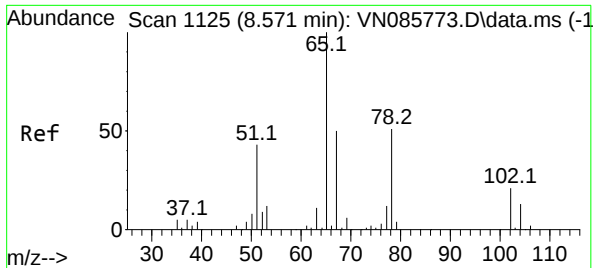
Tgt Ion: 83 Resp: 839
Ion Ratio Lower Upper
83 100
85 44.4 50.9 76.3#



#31
Cyclohexane
Concen: 1.153 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.041 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Tgt Ion: 56 Resp: 3299
Ion Ratio Lower Upper
56 100
69 152.3 25.8 38.6#
84 102.6 74.5 111.7





#33

1,2-Dichloroethane-d4

Concen: 59.725 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

Instrument :

MSVOA_N

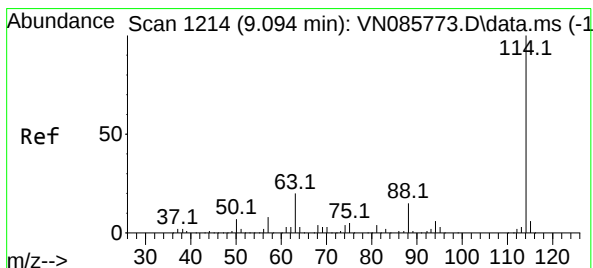
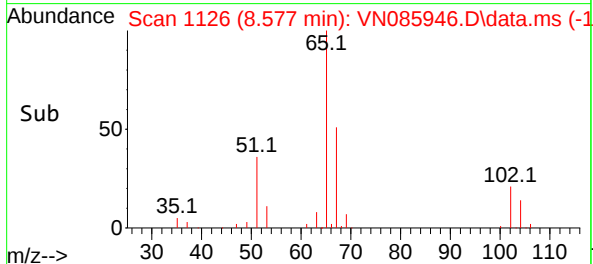
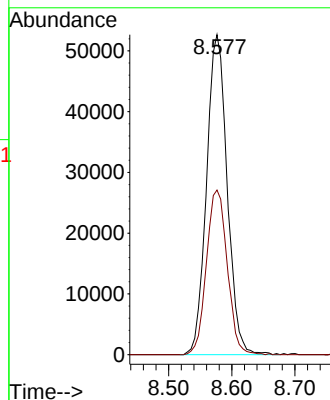
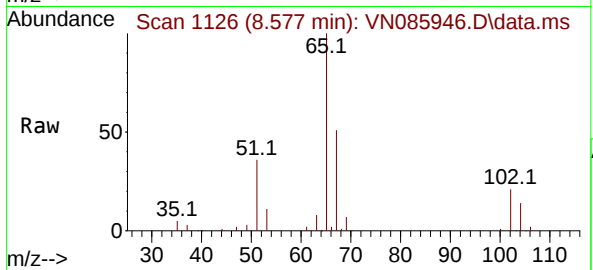
ClientSampleId :

Tgt Ion: 65 Resp: 119680

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

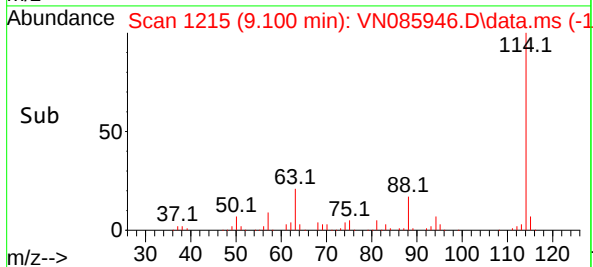
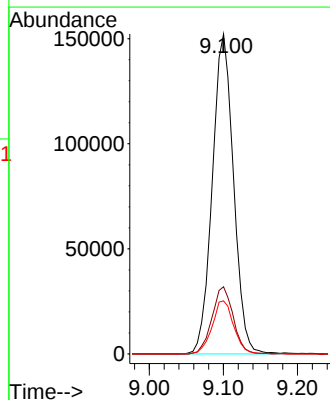
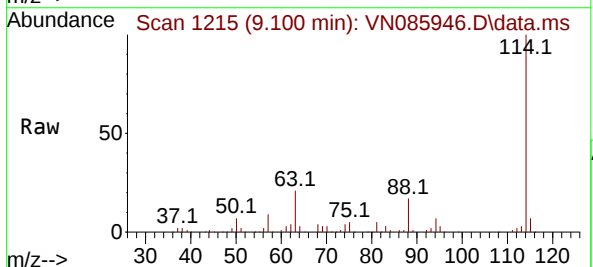
Tgt Ion: 114 Resp: 302708

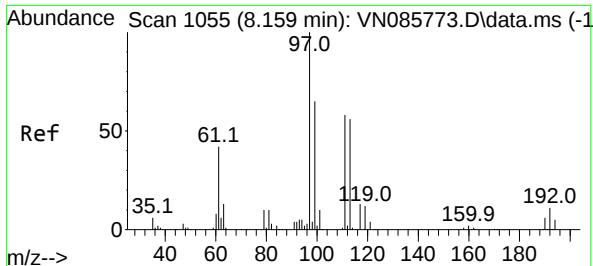
Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.2

88 16.6 0.0 30.0





#35

Dibromofluoromethane

Concen: 50.749 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

Instrument :

MSVOA_N

ClientSampleId :

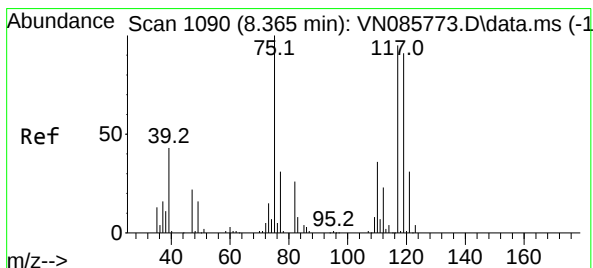
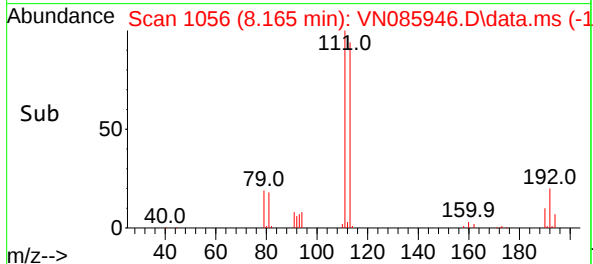
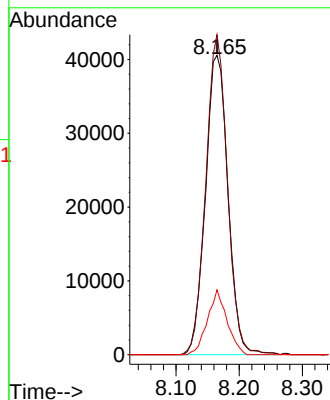
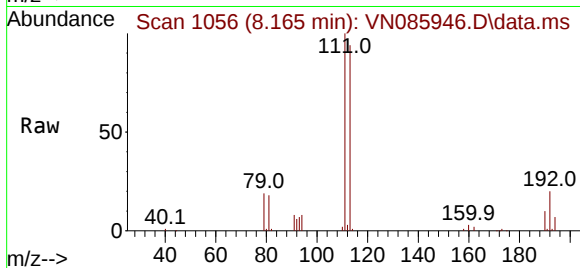
Tgt Ion:113 Resp: 100523

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

192 18.8 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.776 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

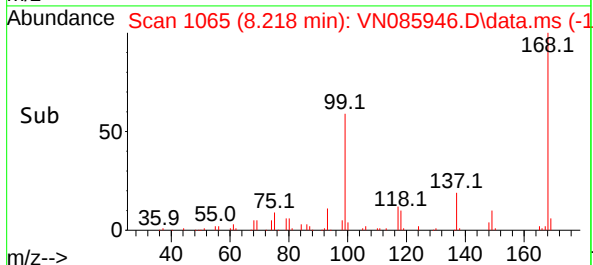
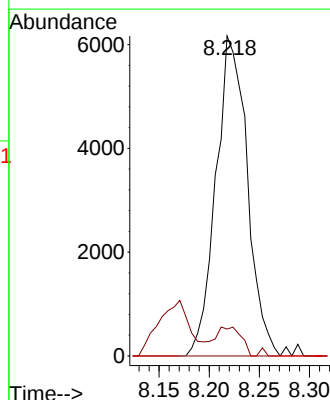
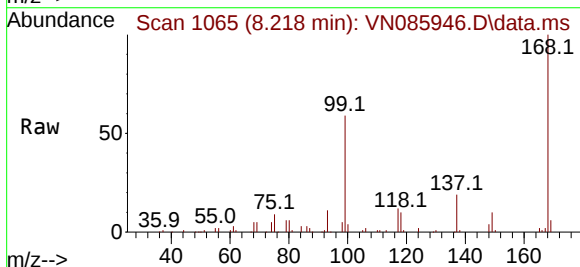
Tgt Ion: 75 Resp: 13388

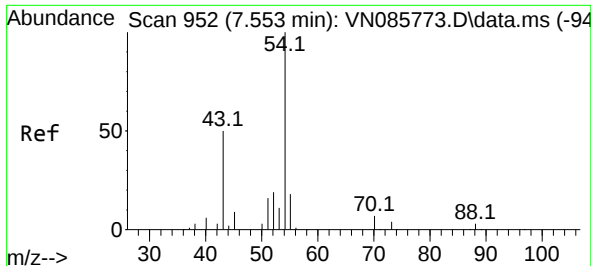
Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

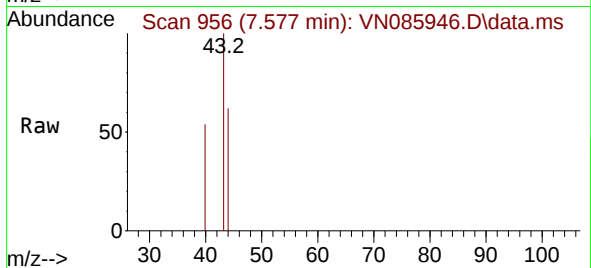
77 0.0 24.6 37.0#



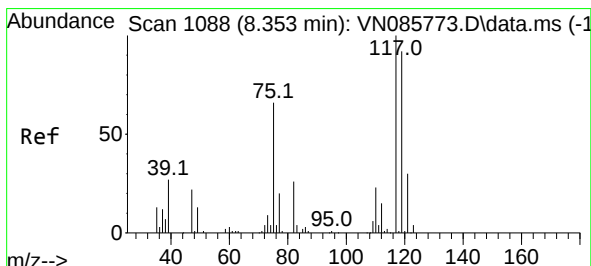
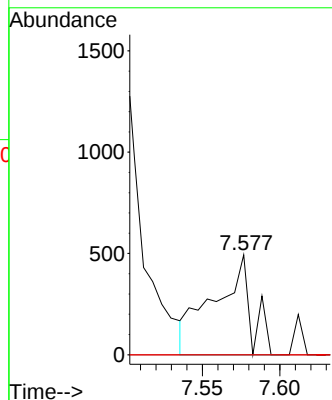
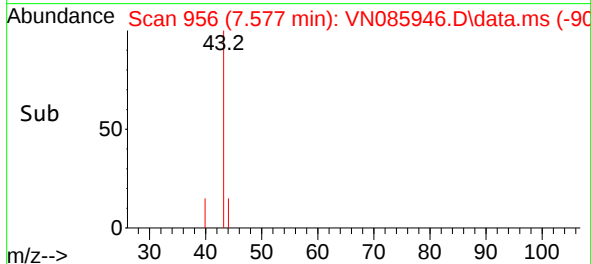


#37
Ethyl Acetate
Concen: 0.362 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.023 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

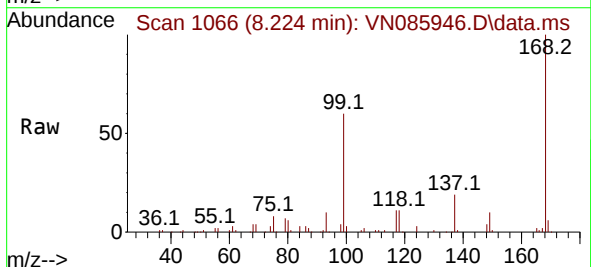
Instrument :
MSVOA_N
ClientSampleId :



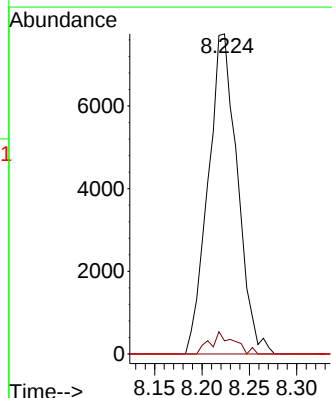
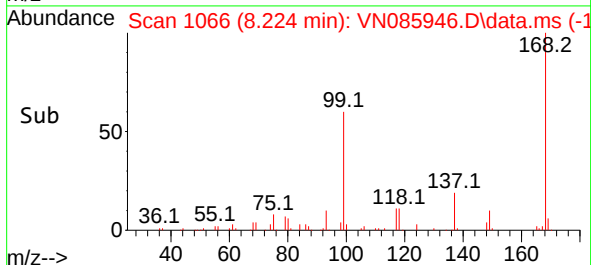
Tgt Ion: 43 Resp: 834
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.2#
70 0.0 9.5 14.3#

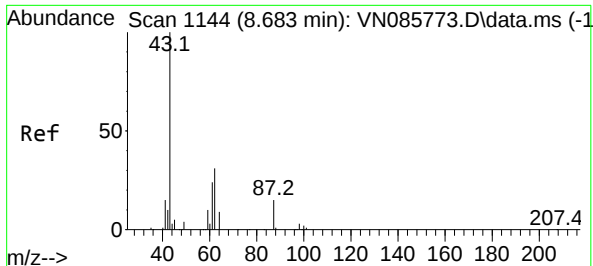


#38
Carbon Tetrachloride
Concen: 4.996 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.129 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05



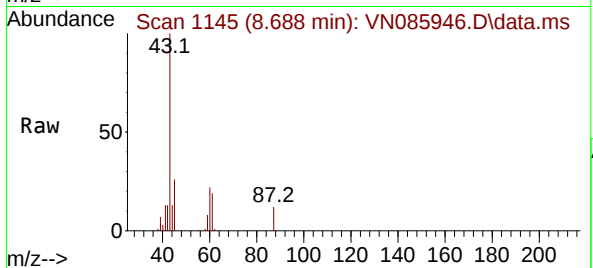
Tgt Ion: 117 Resp: 16641
Ion Ratio Lower Upper
117 100
119 4.1 73.8 110.6#
121 0.0 24.3 36.5#



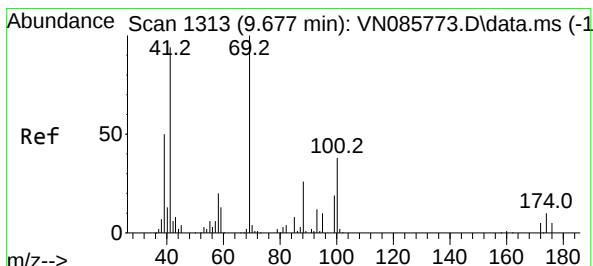
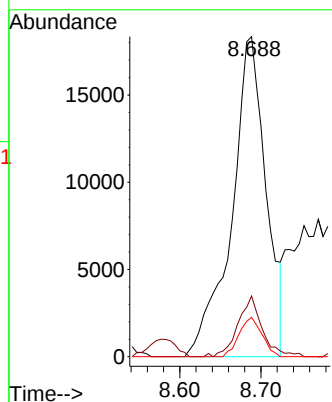
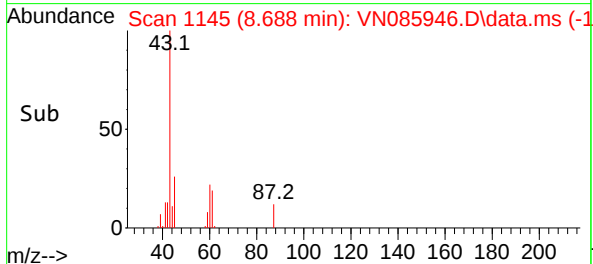


#43
Isopropyl Acetate
Concen: 12.893 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

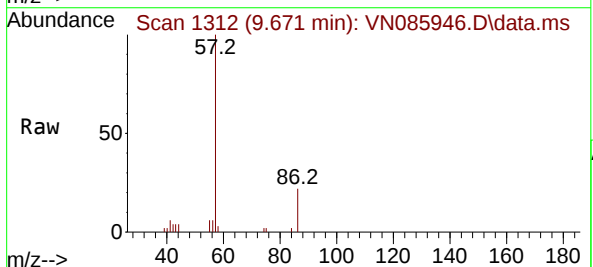
Instrument :
MSVOA_N
ClientSampleId :



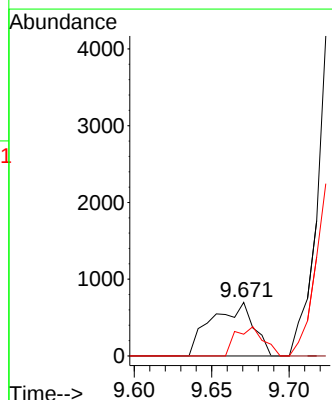
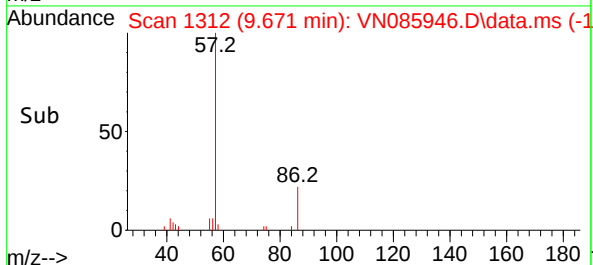
Tgt Ion: 43 Resp: 53843
Ion Ratio Lower Upper
43 100
61 13.4 22.6 34.0#
87 8.2 11.8 17.8#

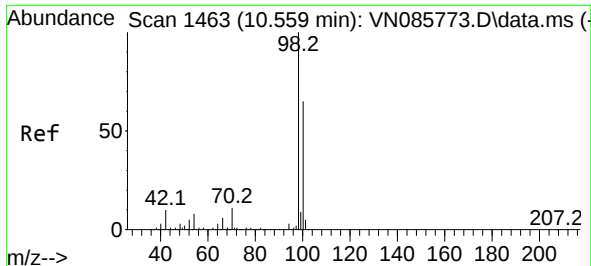


#48
Methyl methacrylate
Concen: 0.765 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05



Tgt Ion: 41 Resp: 1310
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 36.0 42.3 63.5#

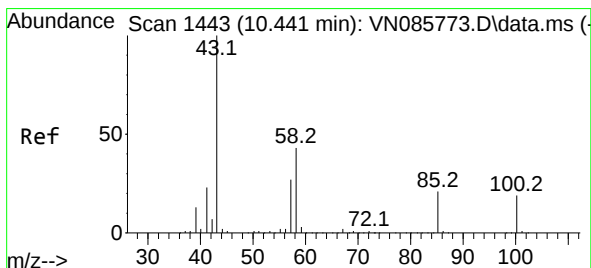
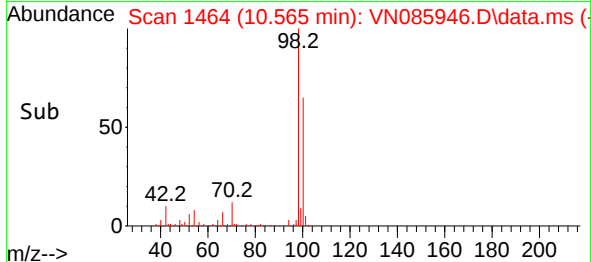
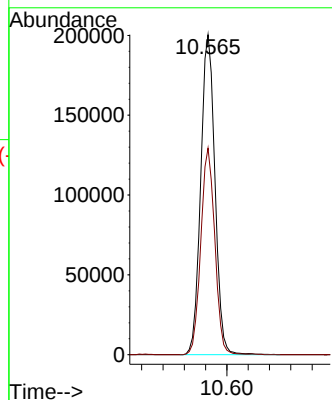
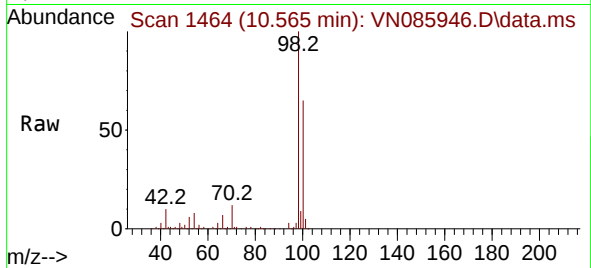




#50
Toluene-d8
Concen: 51.516 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

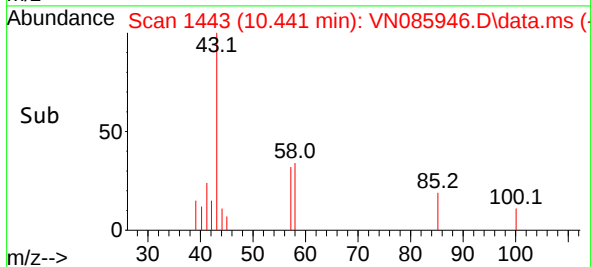
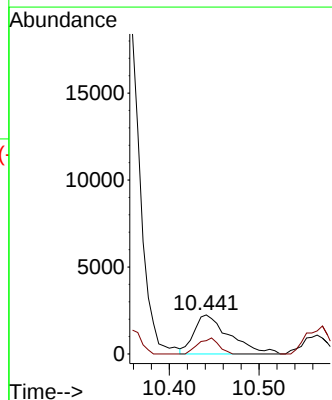
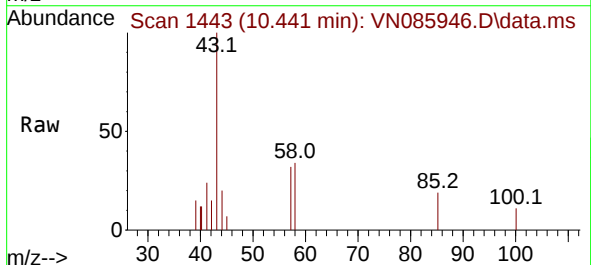
Instrument :
MSVOA_N
ClientSampleId :

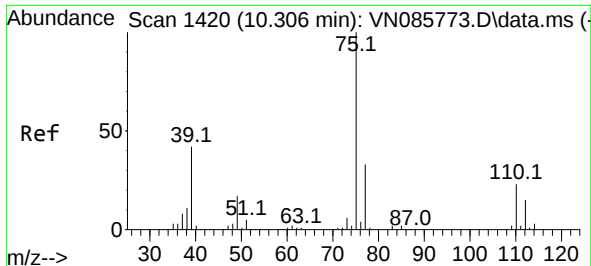
Tgt Ion: 98 Resp: 371260
Ion Ratio Lower Upper
98 100
100 63.4 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.758 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Tgt Ion: 43 Resp: 6135
Ion Ratio Lower Upper
43 100
58 23.8 34.6 52.0#

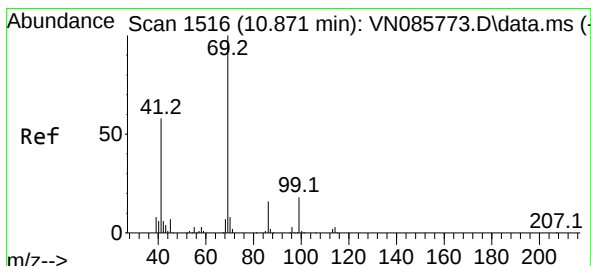
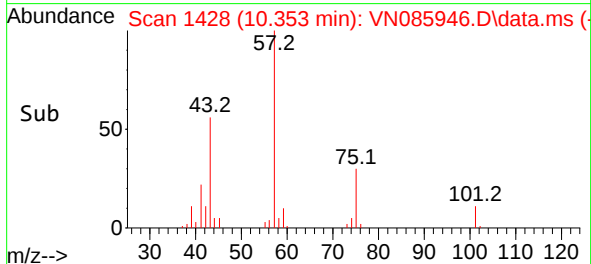
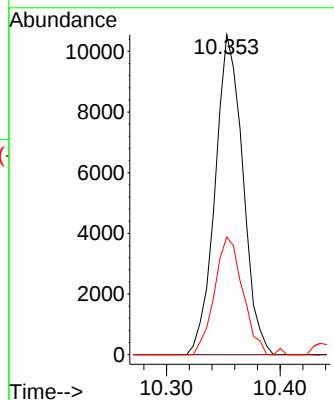
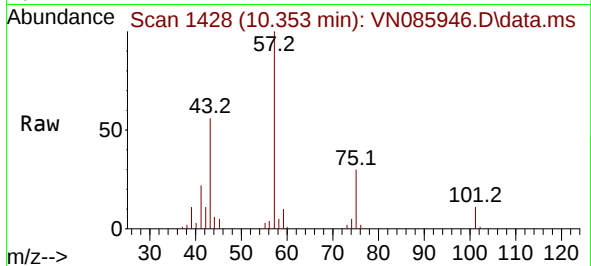




#54
 cis-1,3-Dichloropropene
 Concen: 5.395 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085946.D
 Acq: 11 Mar 2025 21:05

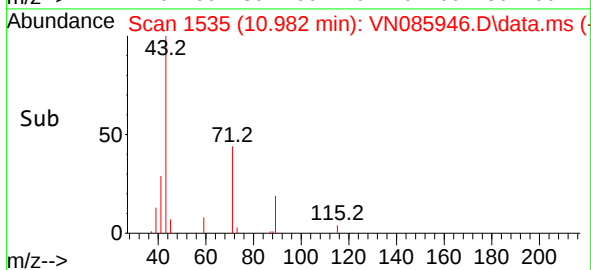
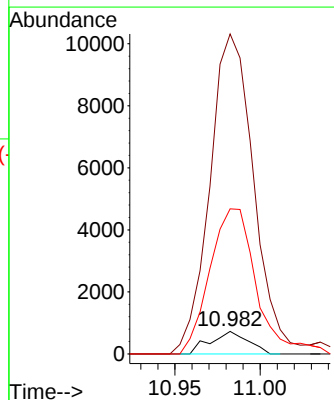
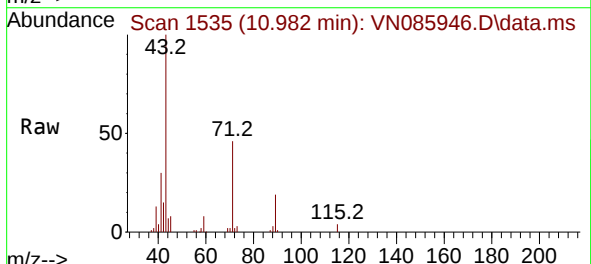
Instrument :
 MSVOA_N
 ClientSampleId :

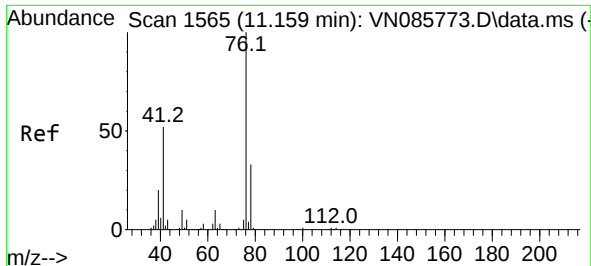
Tgt Ion: 75 Resp: 17903
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 36.8 33.4 50.0



#56
 Ethyl methacrylate
 Concen: 0.874 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN085946.D
 Acq: 11 Mar 2025 21:05

Tgt Ion: 69 Resp: 1118
 Ion Ratio Lower Upper
 69 100
 41 1679.5 46.0 69.0#
 39 796.8 22.0 33.0#





#57

1,3-Dichloropropane

Concen: 0.383 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

Instrument :

MSVOA_N

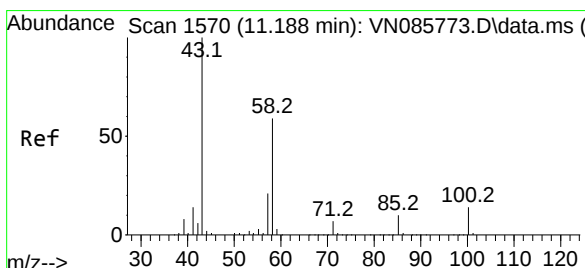
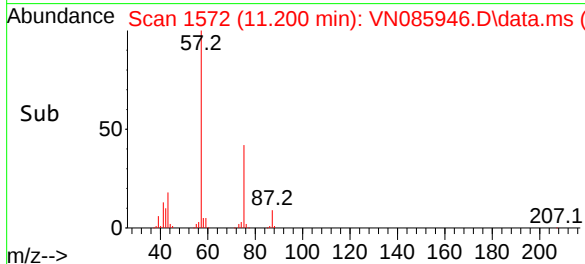
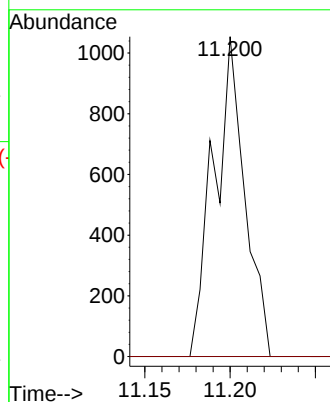
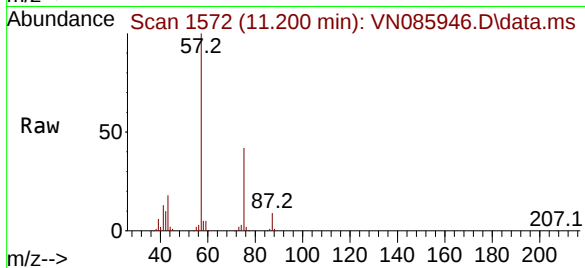
ClientSampleId :

Tgt Ion: 76 Resp: 1339

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 21.720 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.023 min

Lab File: VN085946.D

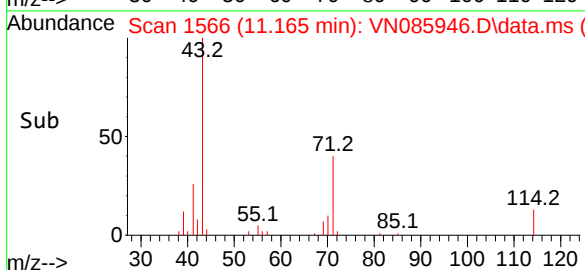
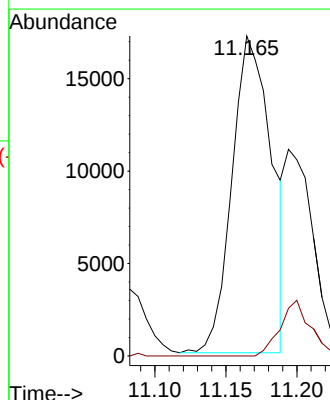
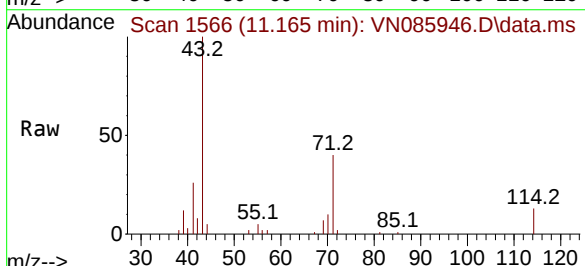
Acq: 11 Mar 2025 21:05

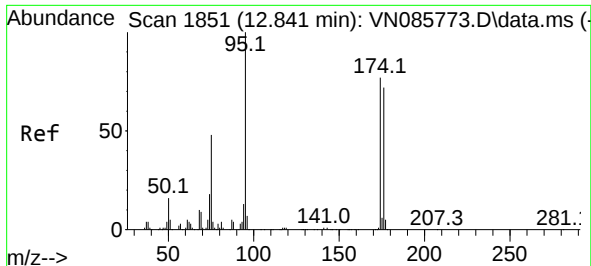
Tgt Ion: 43 Resp: 33235

Ion Ratio Lower Upper

43 100

58 0.0 29.8 89.5#

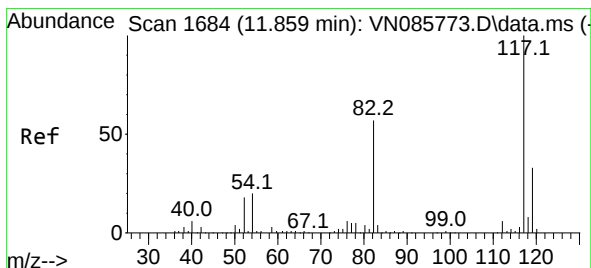
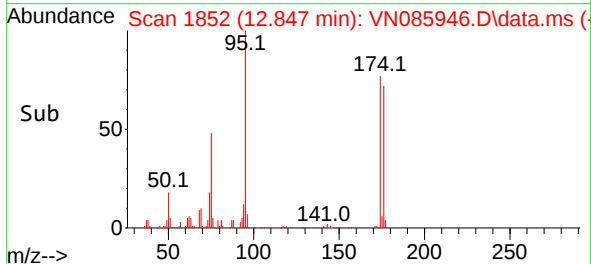
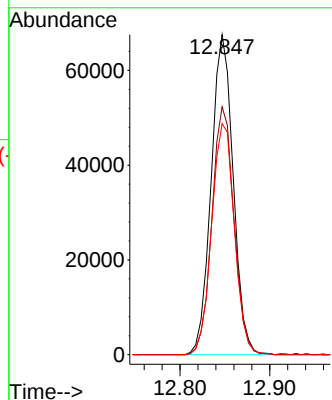
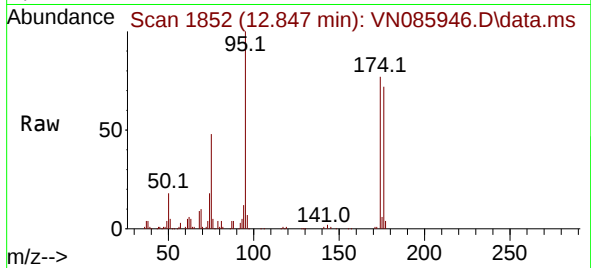




#62
4-Bromofluorobenzene
Concen: 48.452 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

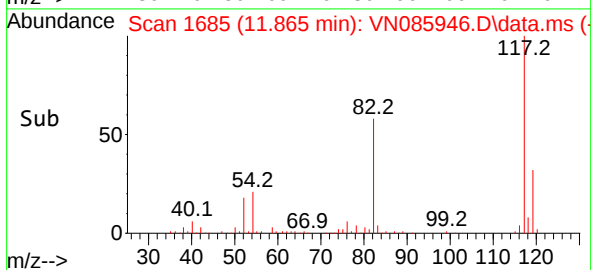
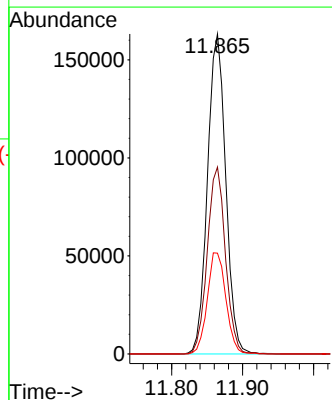
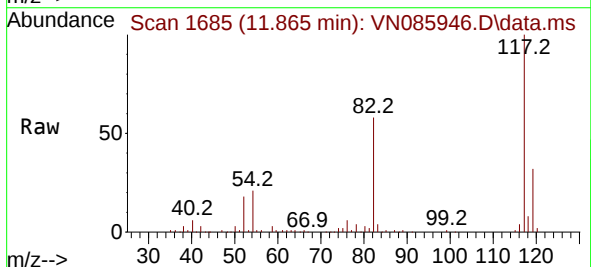
Instrument :
MSVOA_N
ClientSampleId :

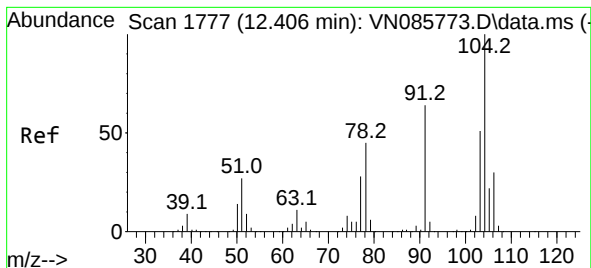
Tgt Ion: 95 Resp: 115045
Ion Ratio Lower Upper
95 100
174 77.8 0.0 152.4
176 74.5 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Tgt Ion: 117 Resp: 291370
Ion Ratio Lower Upper
117 100
82 58.4 45.7 68.5
119 31.5 26.2 39.2





#70

Styrene

Concen: 0.595 ug/l

RT: 12.412 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

Instrument :

MSVOA_N

ClientSampleId :

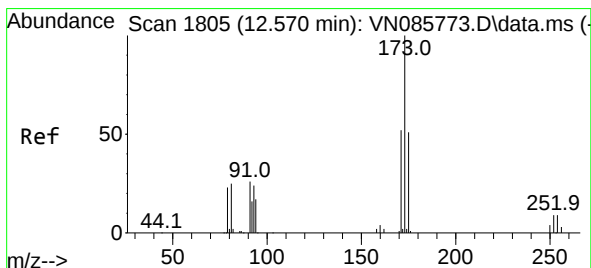
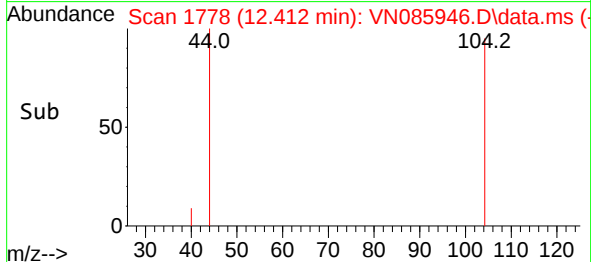
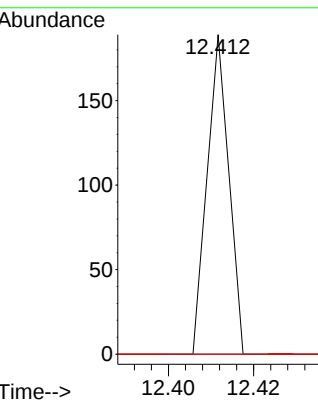
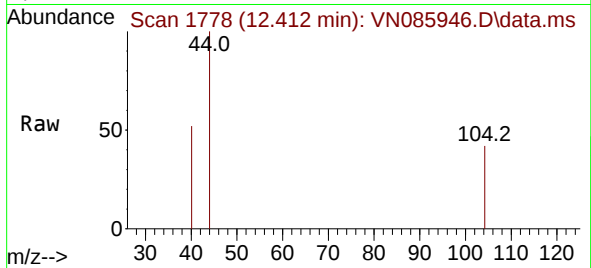
Tgt Ion:104 Resp: 67

Ion Ratio Lower Upper

104 100

78 0.0 39.0 58.6#

103 0.0 43.3 64.9#



#71

Bromoform

Concen: 0.293 ug/l

RT: 12.841 min Scan# 1851

Delta R.T. 0.271 min

Lab File: VN085946.D

Acq: 11 Mar 2025 21:05

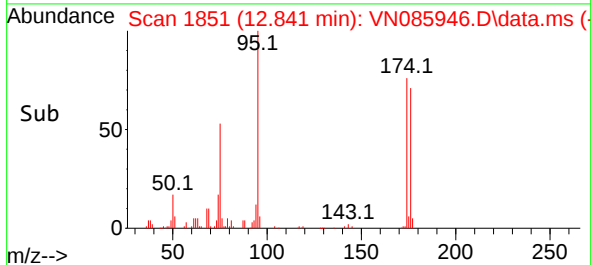
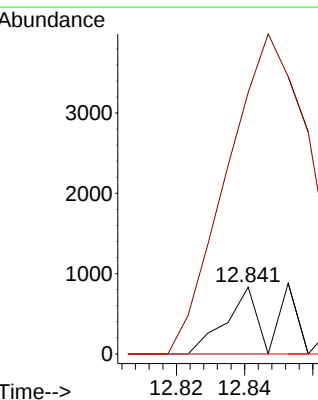
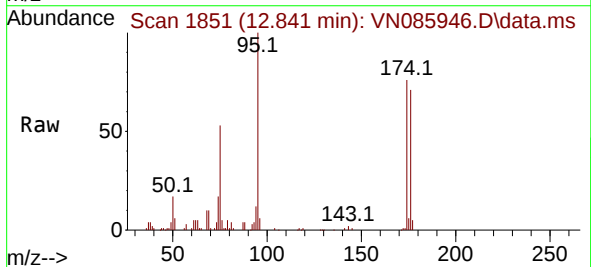
Tgt Ion:173 Resp: 523

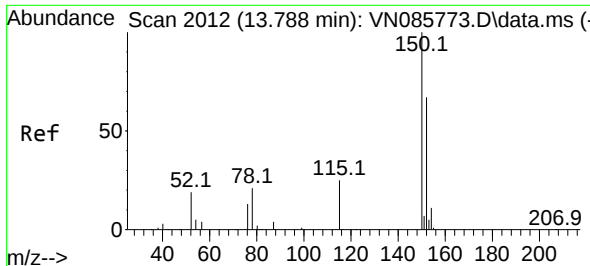
Ion Ratio Lower Upper

173 100

175 0.0 25.1 75.4#

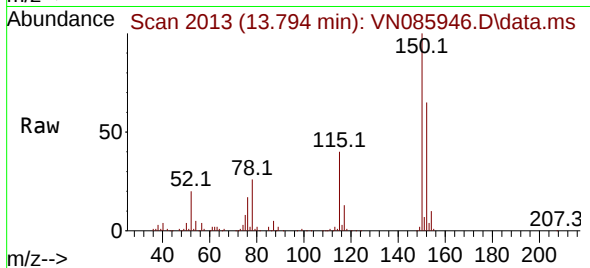
254 0.0 0.0 0.0



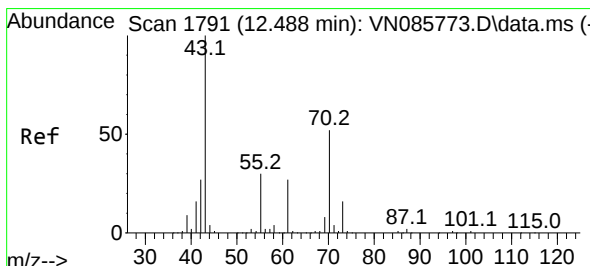
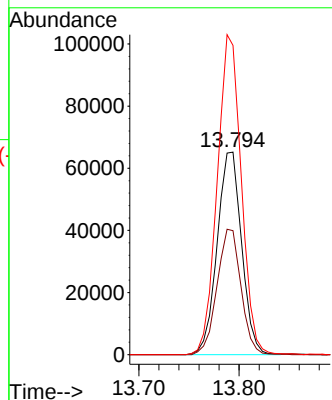
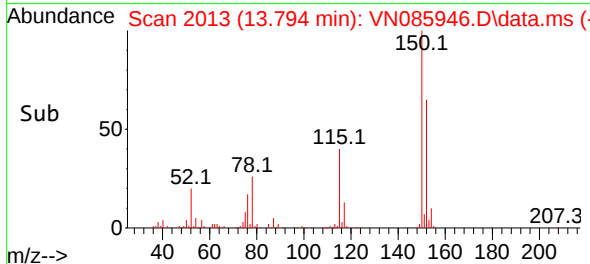


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Instrument :
MSVOA_N
ClientSampleId :

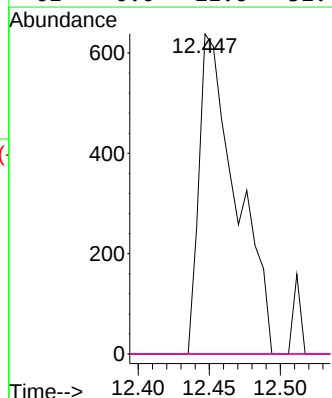
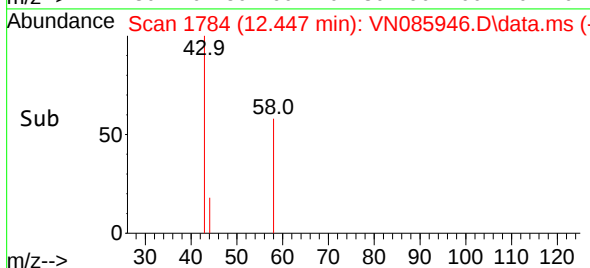
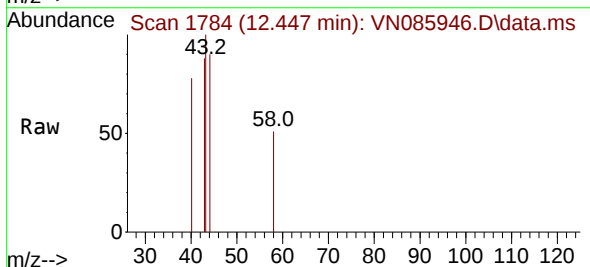


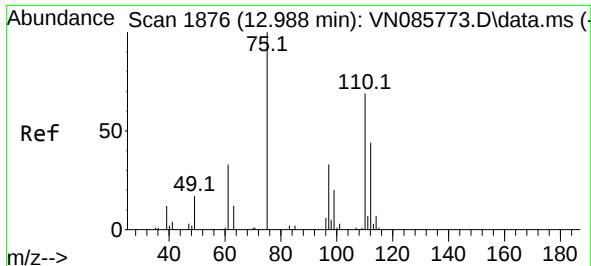
Tgt Ion:152 Resp: 110784
Ion Ratio Lower Upper
152 100
115 60.4 30.4 91.3
150 154.9 0.0 345.4



#74
N-ethyl acetate
Concen: 0.435 ug/l
RT: 12.447 min Scan# 1784
Delta R.T. -0.041 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Tgt Ion: 43 Resp: 1165
Ion Ratio Lower Upper
43 100
70 0.0 41.0 61.4#
55 0.0 24.6 36.8#
61 0.0 21.6 32.4#

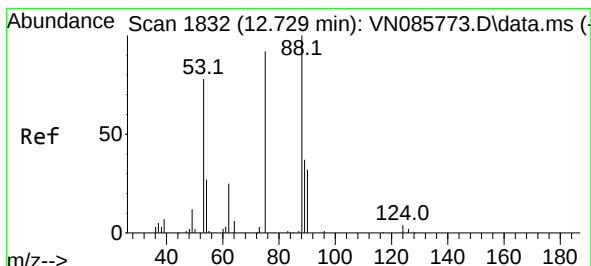
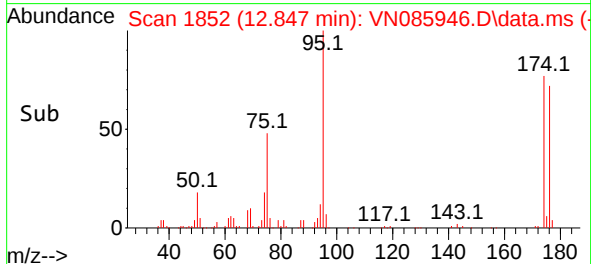
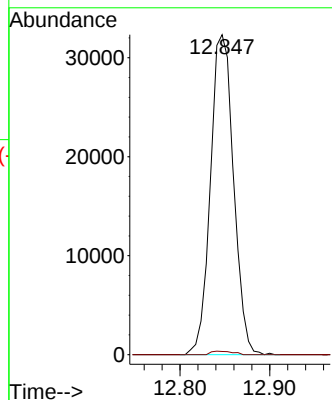
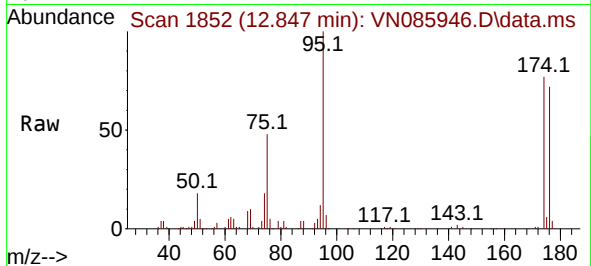




#76
1,2,3-Trichloropropane
Concen: 23.512 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 57861
Ion Ratio Lower Upper
75 100
77 1.0 100.0 300.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.603 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085946.D
Acq: 11 Mar 2025 21:05

Tgt Ion: 75 Resp: 57861
Ion Ratio Lower Upper
75 100
53 0.1 74.2 111.4#
89 0.0 34.9 52.3#

