

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011725\
 Data File : VN085492.D
 Acq On : 17 Jan 2025 14:48
 Operator : JC\MD
 Sample : PB166090ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 17 22:36:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

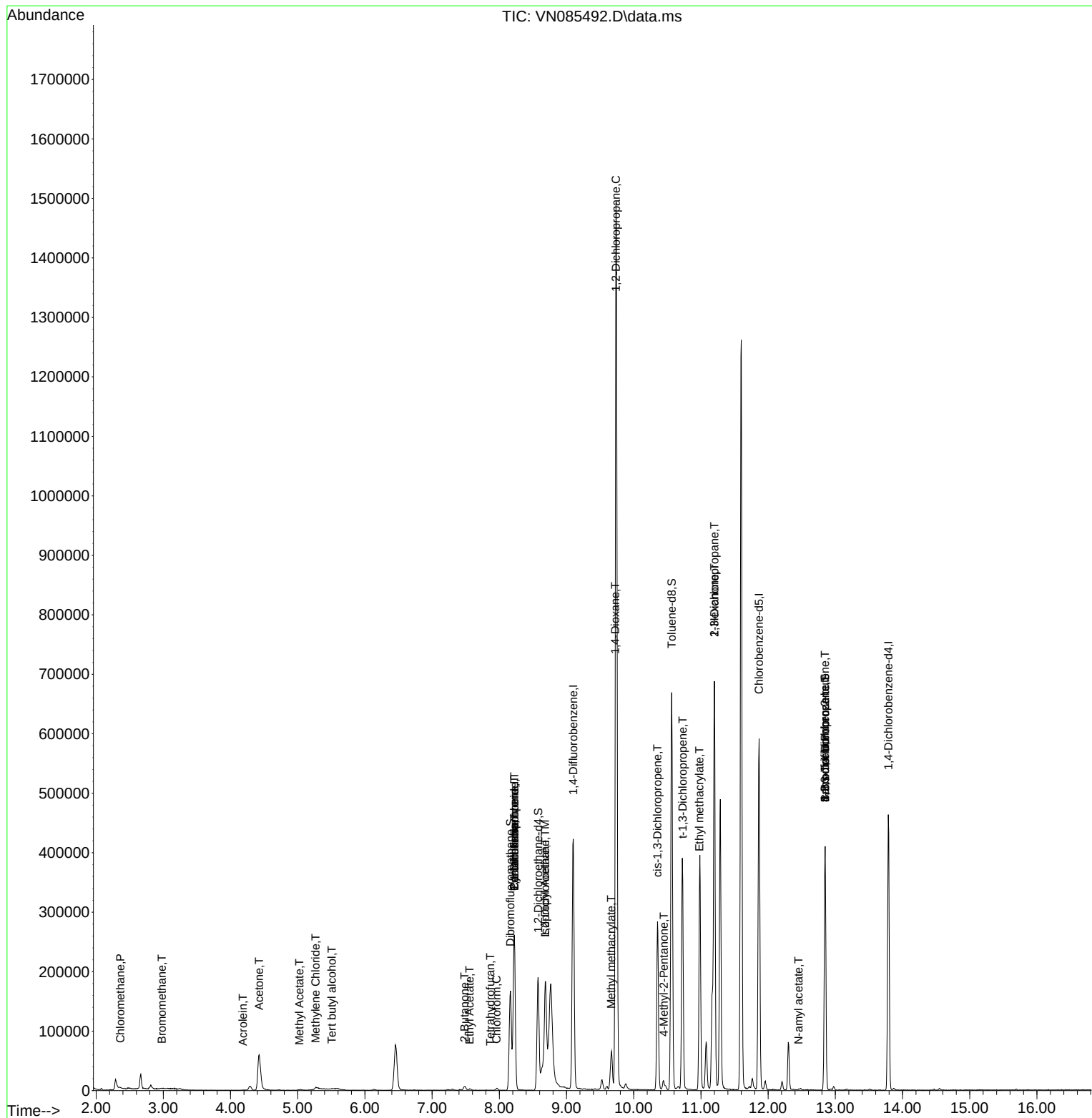
Internal Standards						
1) Pentafluorobenzene	8.224	168	176920	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	345235	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	316026	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	117938	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	158810	55.609	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.220%	
35) Dibromofluoromethane	8.165	113	117383	49.010	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.020%	
50) Toluene-d8	10.565	98	443044	52.064	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.120%	
62) 4-Bromofluorobenzene	12.847	95	134810	46.311	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 92.620%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	606	0.234	ug/l	100
5) Bromomethane	2.977	94	385	0.244	ug/l	87
11) Tert butyl alcohol	5.506	59	841	2.572	ug/l #	71
13) Acrolein	4.183	56	115	0.258	ug/l #	14
16) Acetone	4.424	43	117697	127.550	ug/l	96
18) Methyl Acetate	5.024	43	3227	1.150	ug/l #	63
20) Methylene Chloride	5.265	84	2401	1.051	ug/l	83
25) 2-Butanone	7.483	43	12045	8.870	ug/l	98
29) Tetrahydrofuran	7.865	42	378	0.439	ug/l #	34
30) Chloroform	7.959	83	3368	0.781	ug/l	91
31) Cyclohexane	8.224	56	5026	1.387	ug/l #	14
36) 1,1-Dichloropropene	8.224	75	17190	5.114	ug/l #	51
37) Ethyl Acetate	7.559	43	4193	1.236	ug/l #	90
38) Carbon Tetrachloride	8.224	117	20814	5.409	ug/l #	16
42) 1,2-Dichloroethane	8.683	62	1289	0.339	ug/l #	76
43) Isopropyl Acetate	8.683	43	242469	44.599	ug/l #	78
45) 1,2-Dichloropropane	9.735	63	1707	0.662	ug/l #	43
48) Methyl methacrylate	9.665	41	4917	2.010	ug/l #	45
49) 1,4-Dioxane	9.724	88	56	1.359	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	15667	4.966	ug/l #	75
53) t-1,3-Dichloropropene	10.730	75	933	0.260	ug/l #	45
54) cis-1,3-Dichloropropene	10.353	75	45790	11.961	ug/l #	71
56) Ethyl methacrylate	10.977	69	2070	2.441	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6343	1.575	ug/l #	43
59) 2-Hexanone	11.200	43	101851	45.883	ug/l #	52
71) Bromoform	12.847	173	1116	0.614	ug/l #	1
74) N-amyl acetate	12.453	43	992	0.277	ug/l #	45
76) 1,2,3-Trichloropropane	12.847	75	75931	31.676	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75931	85.701	ug/l #	3

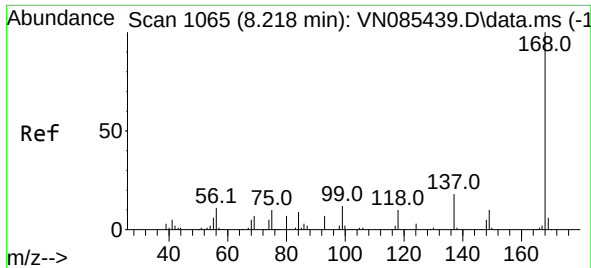
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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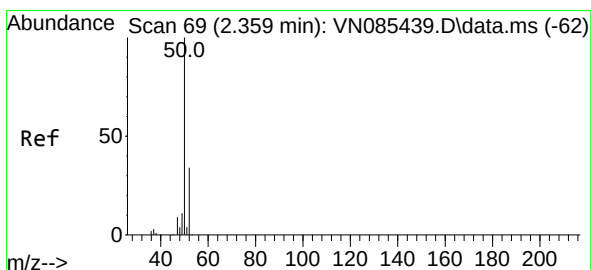
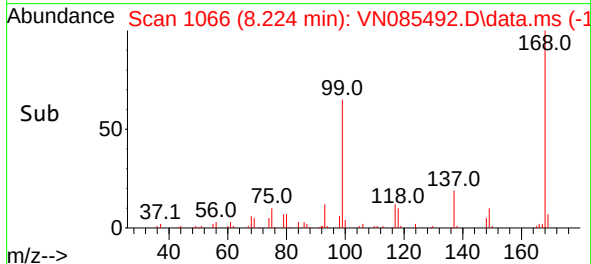
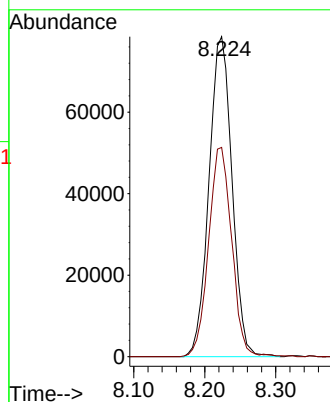
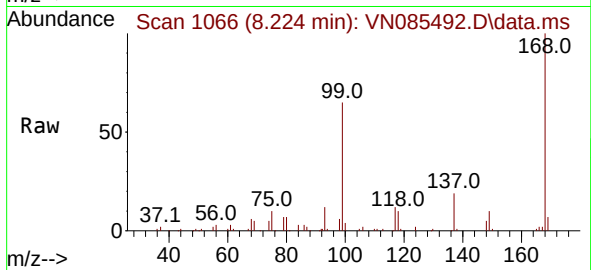




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

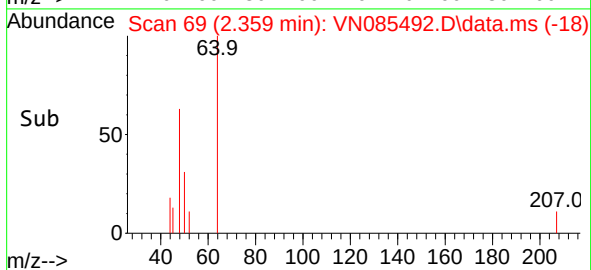
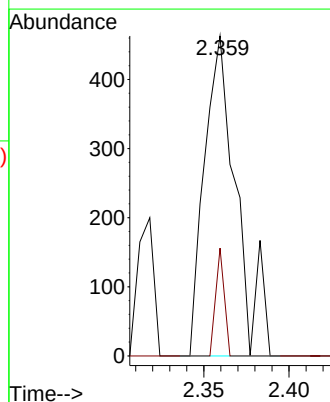
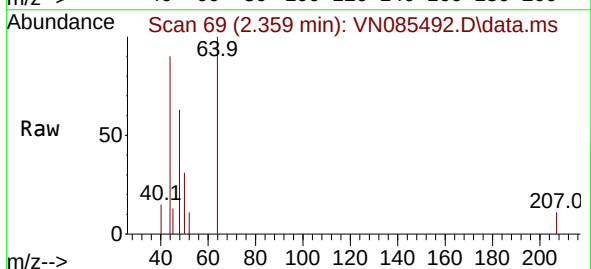
Instrument :
MSVOA_N
ClientSampleId :

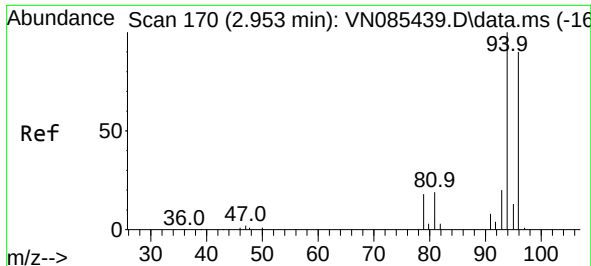
Tgt Ion:168 Resp: 176920
Ion Ratio Lower Upper
168 100
99 65.4 53.6 80.4



#3
Chloromethane
Concen: 0.234 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 50 Resp: 606
Ion Ratio Lower Upper
50 100
52 33.7 27.0 40.6

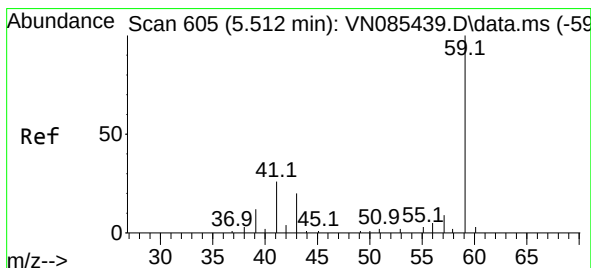
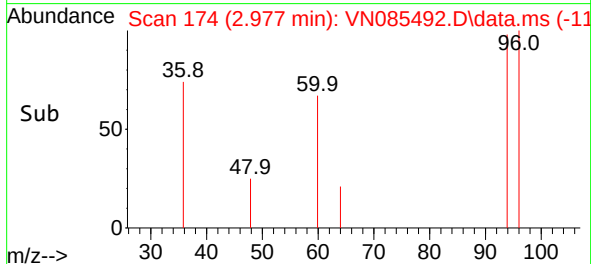
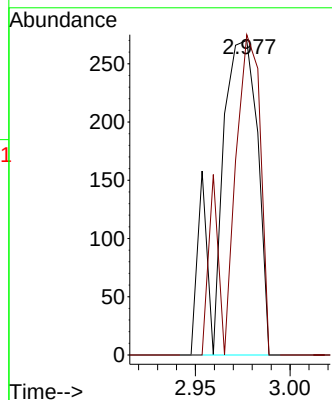
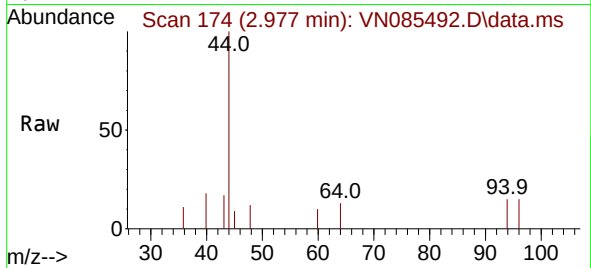




#5
Bromomethane
Concen: 0.244 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

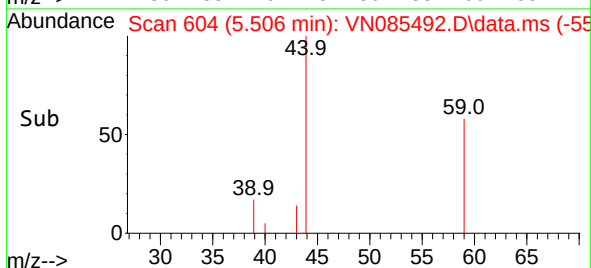
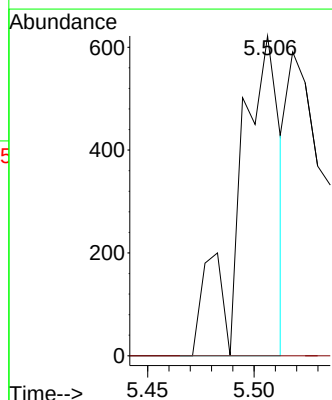
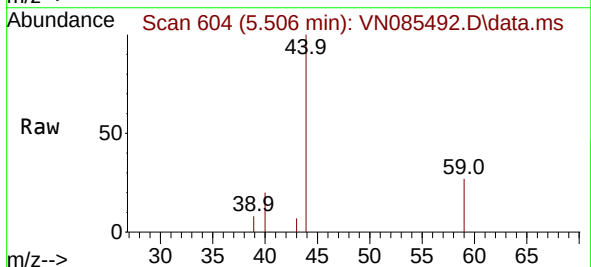
Instrument :
MSVOA_N
ClientSampleId :

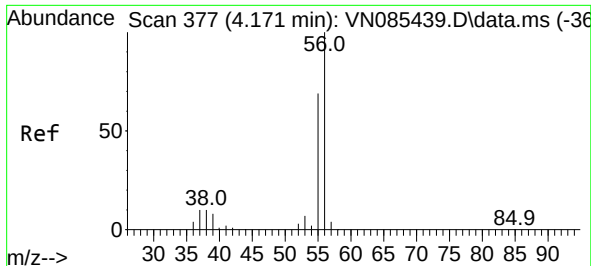
Tgt Ion: 94 Resp: 385
Ion Ratio Lower Upper
94 100
96 101.9 71.8 107.6



#11
Tert butyl alcohol
Concen: 2.572 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 59 Resp: 841
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

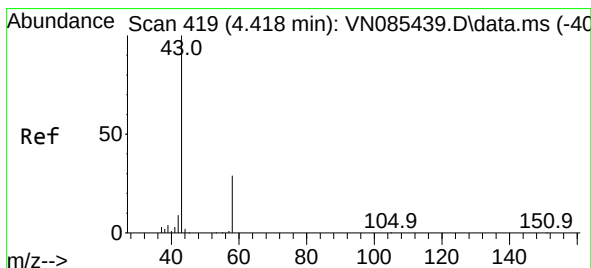
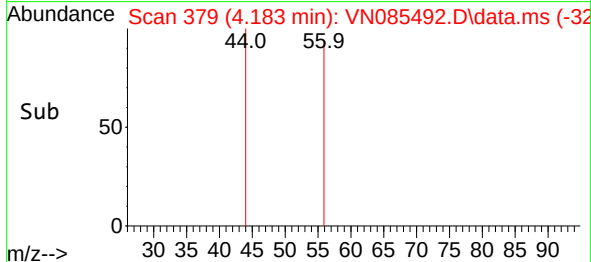
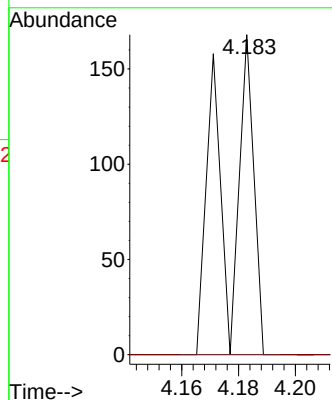
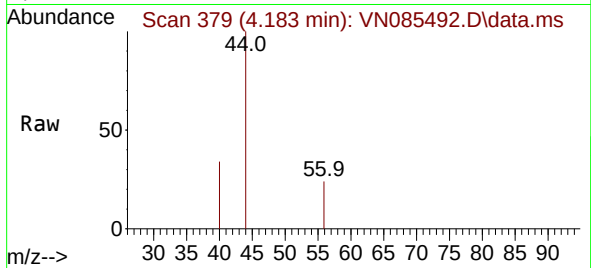




#13
Acrolein
Concen: 0.258 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

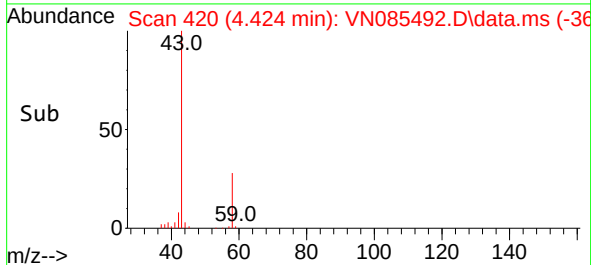
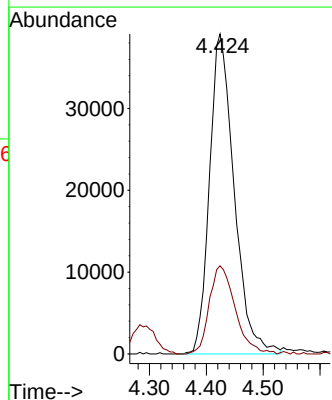
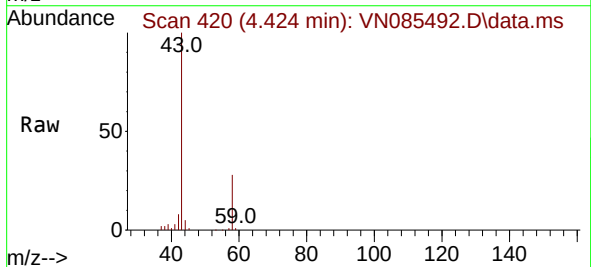
Instrument :
MSVOA_N
ClientSampleId :

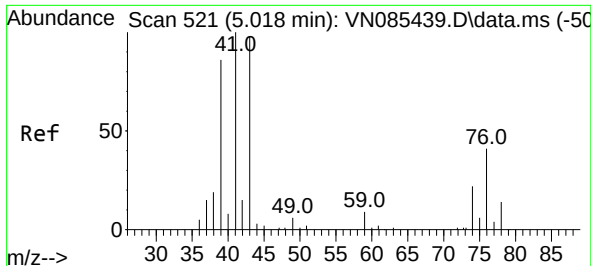
Tgt Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 127.550 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

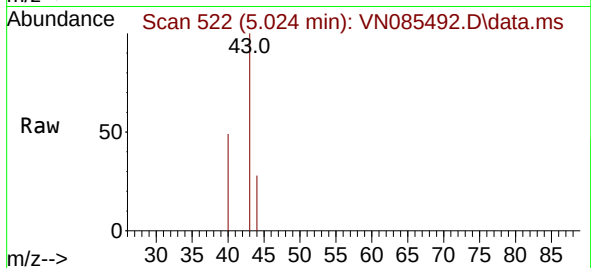
Tgt Ion: 43 Resp: 117697
Ion Ratio Lower Upper
43 100
58 27.5 23.8 35.6



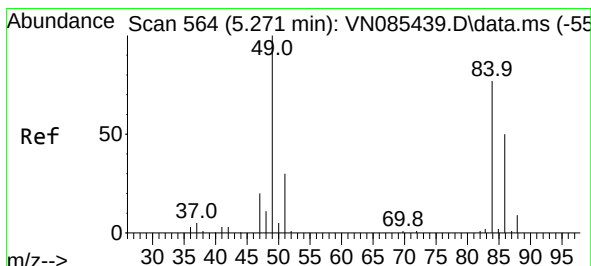
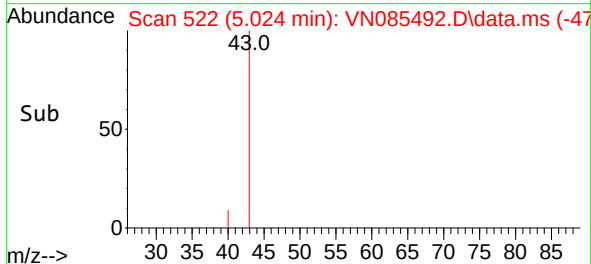
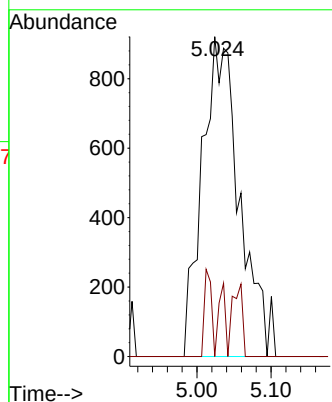


#18
Methyl Acetate
Concen: 1.150 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :

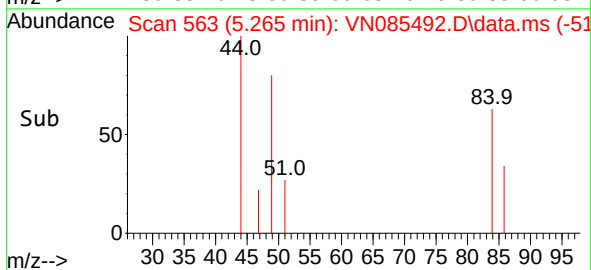
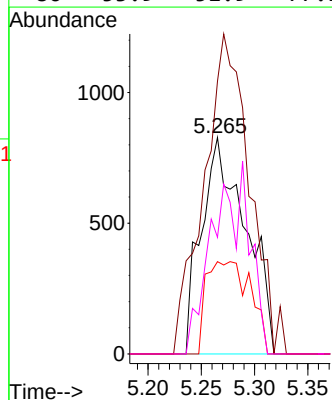
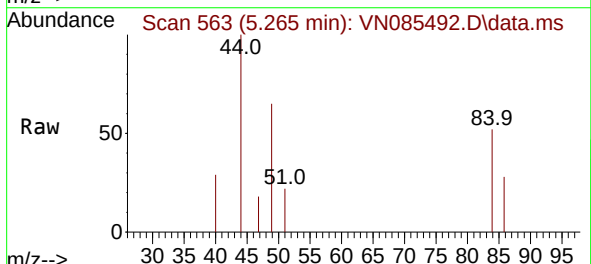


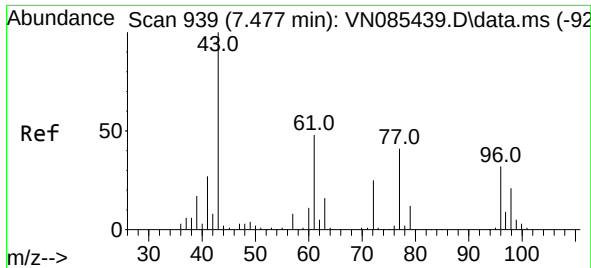
Tgt Ion: 43 Resp: 3227
Ion Ratio Lower Upper
43 100
74 5.1 18.6 28.0#



#20
Methylene Chloride
Concen: 1.051 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 84 Resp: 2401
Ion Ratio Lower Upper
84 100
49 104.1 104.1 156.1
51 42.6 31.0 46.4
86 53.9 51.9 77.9

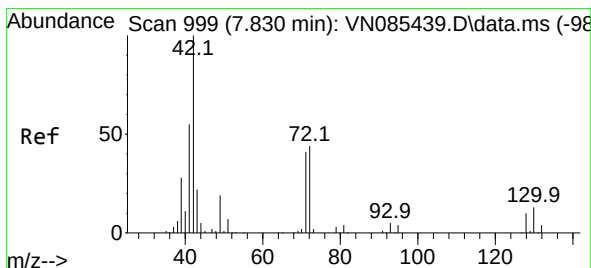
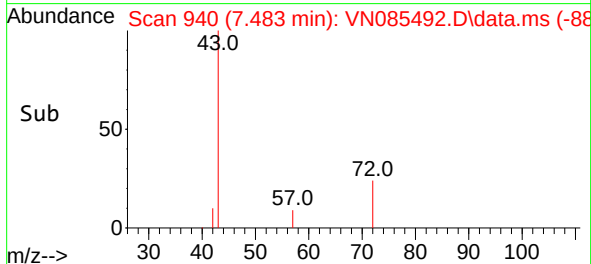
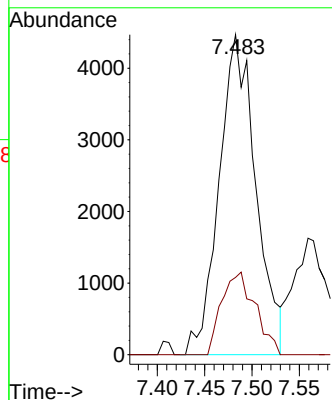
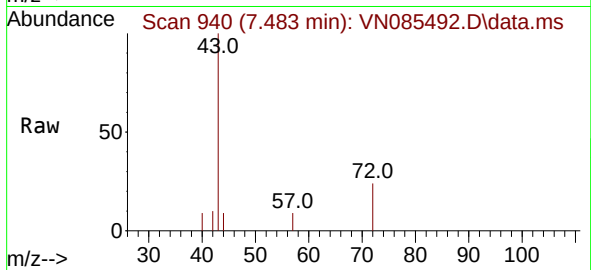




#25
2-Butanone
Concen: 8.870 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

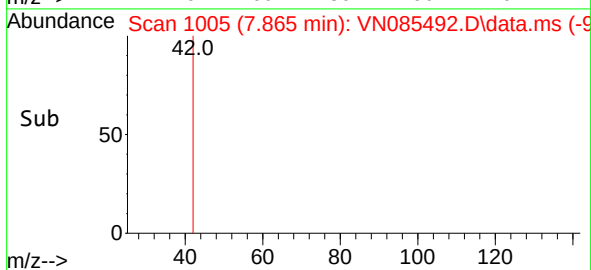
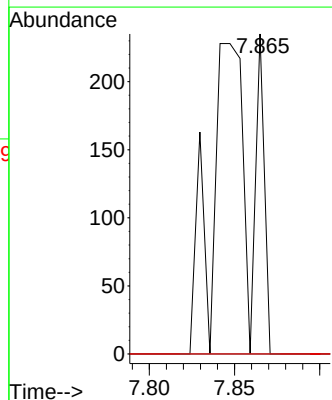
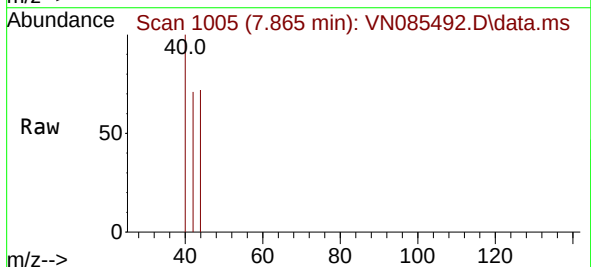
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MSVOA_N
ClientSampleId :

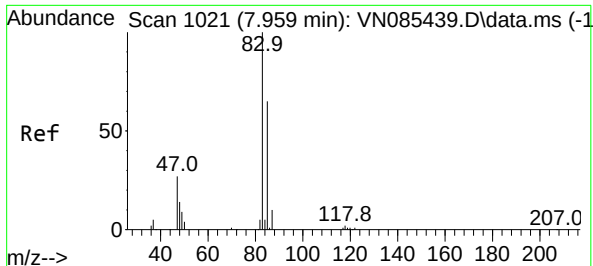
Tgt Ion: 43 Resp: 12045
Ion Ratio Lower Upper
43 100
72 24.1 20.2 30.4



#29
Tetrahydrofuran
Concen: 0.439 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.035 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 42 Resp: 378
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#





#30

Chloroform

Concen: 0.781 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

Instrument :

MSVOA_N

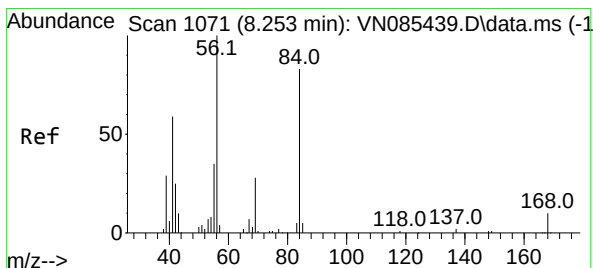
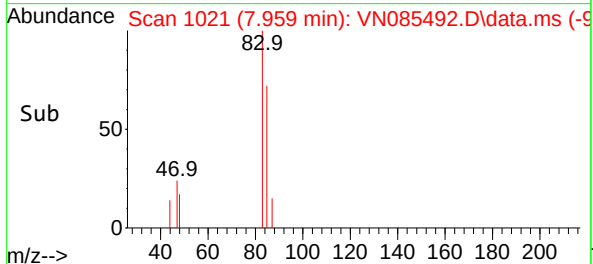
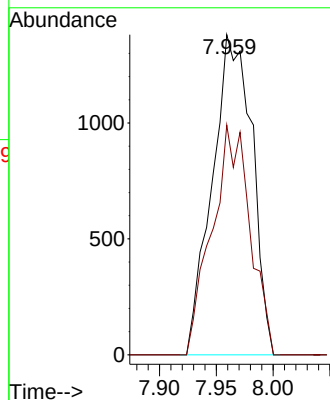
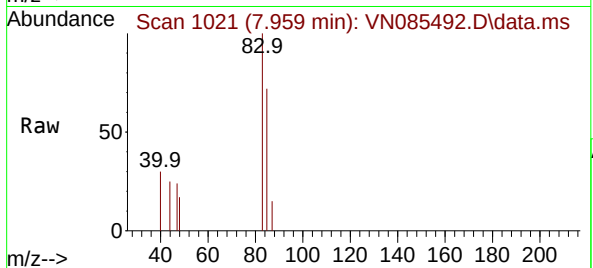
ClientSampleId :

Tgt Ion: 83 Resp: 3368

Ion Ratio Lower Upper

83 100

85 71.8 51.8 77.6



#31

Cyclohexane

Concen: 1.387 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

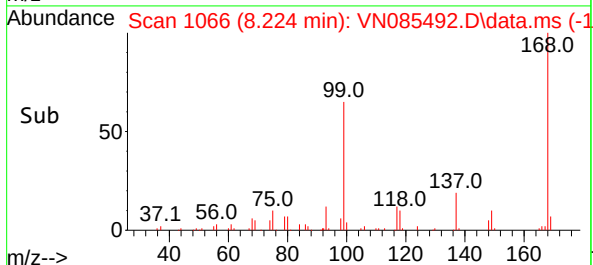
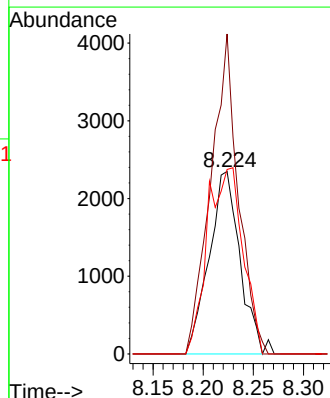
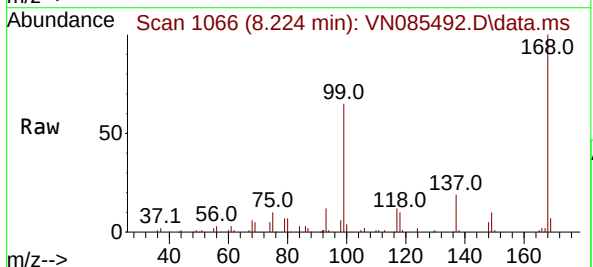
Tgt Ion: 56 Resp: 5026

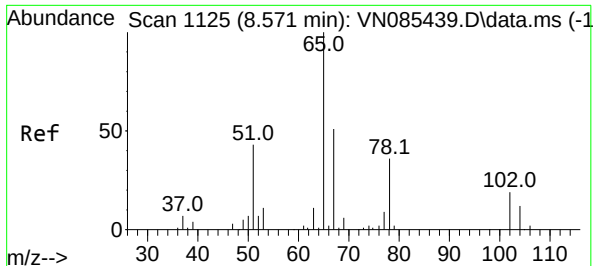
Ion Ratio Lower Upper

56 100

69 175.3 22.2 33.4#

84 101.1 66.4 99.6#

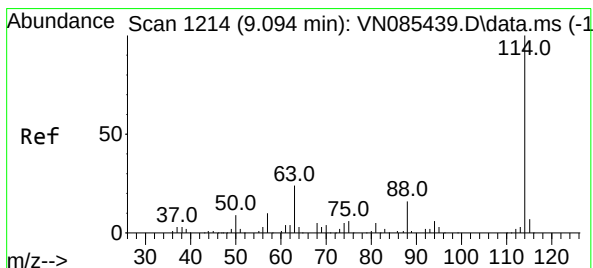
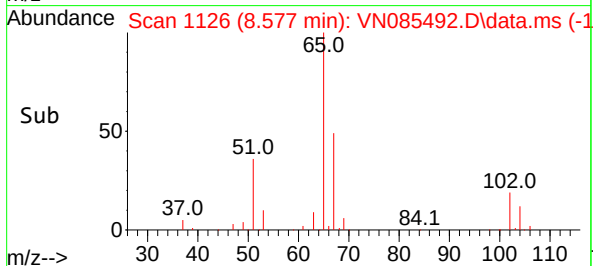
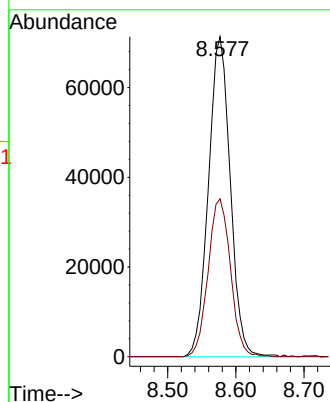
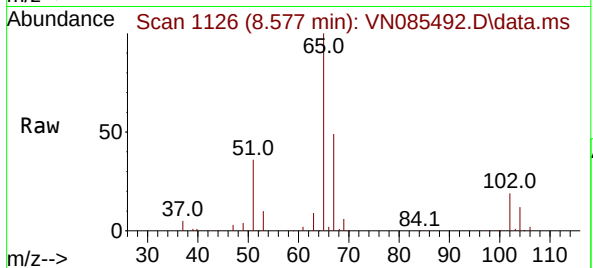




#33
 1,2-Dichloroethane-d4
 Concen: 55.609 ug/l
 RT: 8.577 min Scan# 1125
 Delta R.T. 0.006 min
 Lab File: VN085492.D
 Acq: 17 Jan 2025 14:48

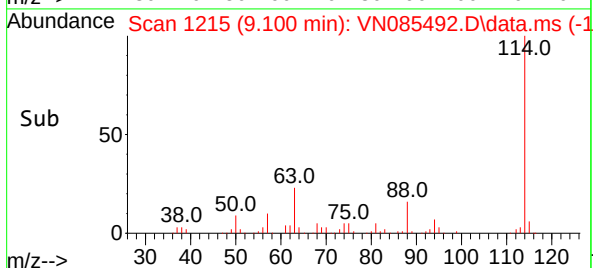
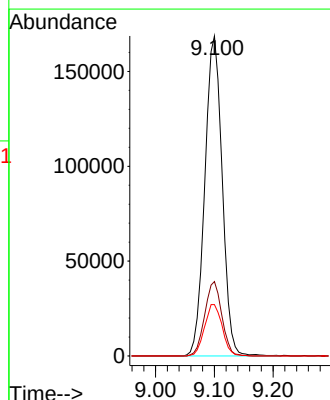
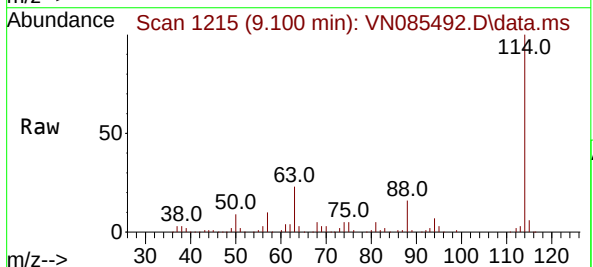
Instrument :
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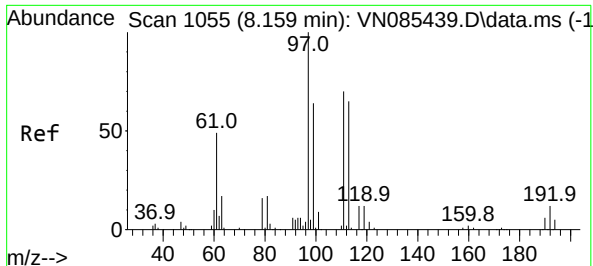
Tgt Ion: 65 Resp: 158810
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.006 min
 Lab File: VN085492.D
 Acq: 17 Jan 2025 14:48

Tgt Ion: 114 Resp: 345235
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 47.6
 88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.010 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

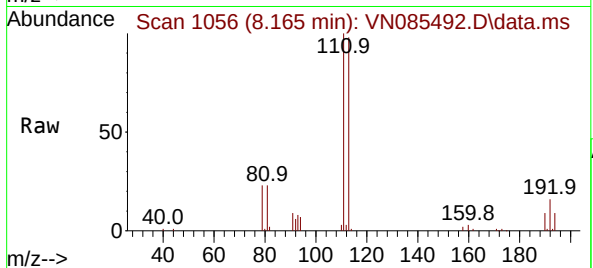
Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :



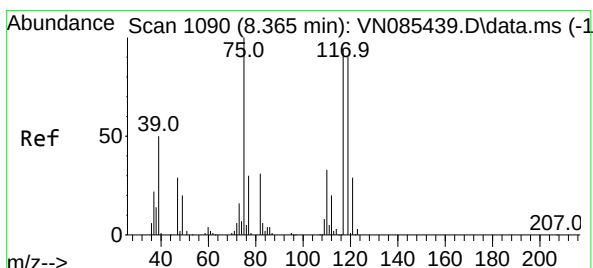
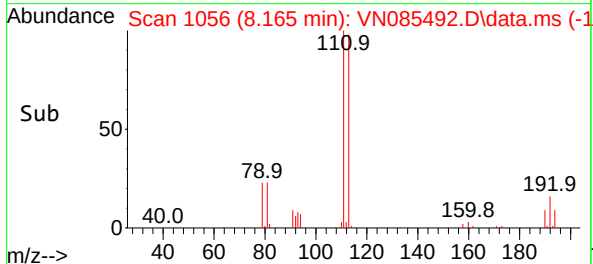
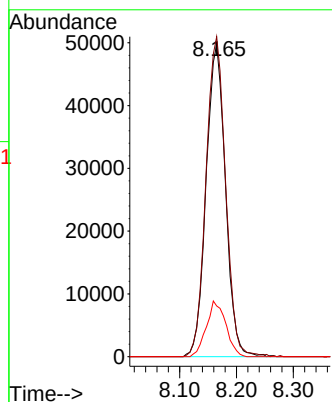
Tgt Ion:113 Resp: 117383

Ion Ratio Lower Upper

113 100

111 103.9 82.7 124.1

192 18.0 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.114 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

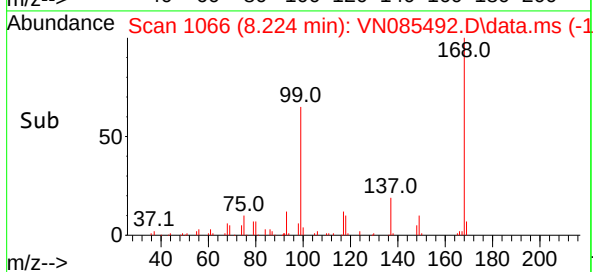
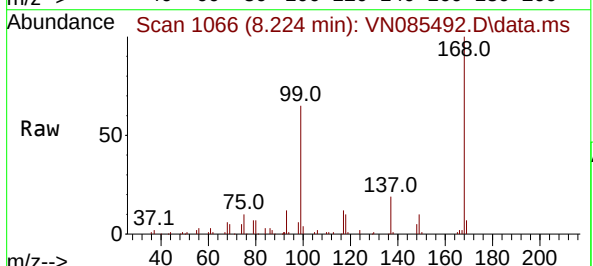
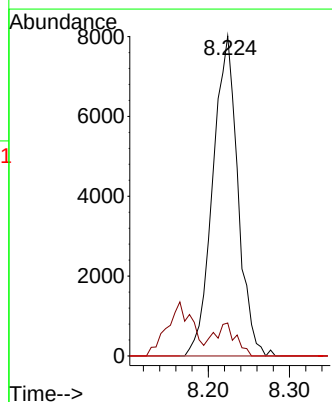
Tgt Ion: 75 Resp: 17190

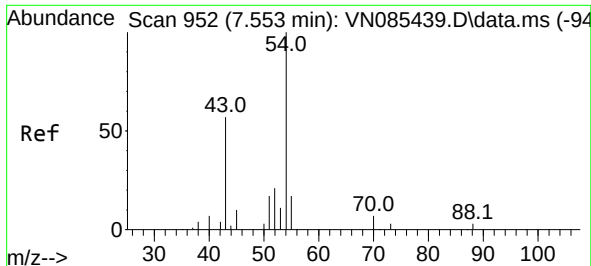
Ion Ratio Lower Upper

75 100

110 9.0 16.5 49.5#

77 0.0 24.4 36.6#

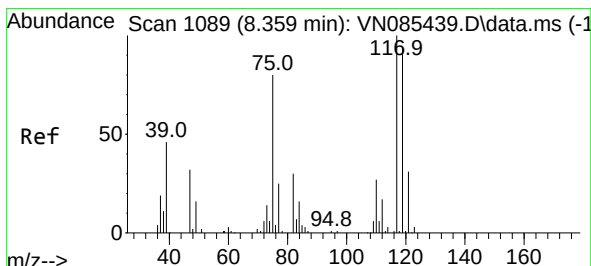
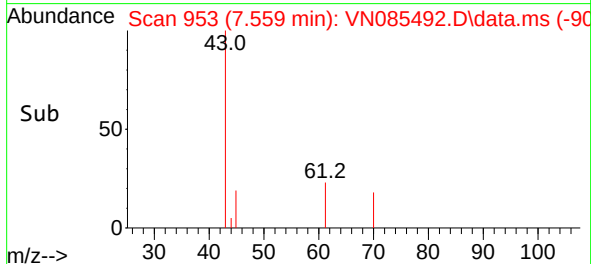
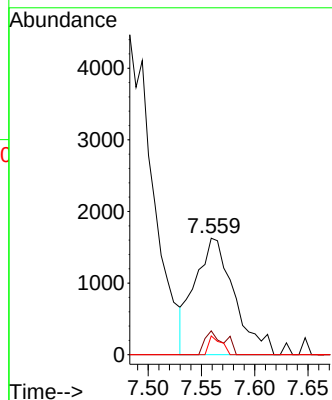
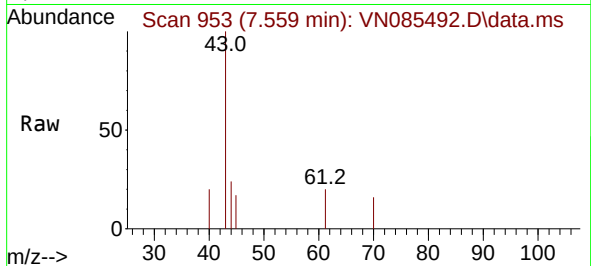




#37
Ethyl Acetate
Concen: 1.236 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

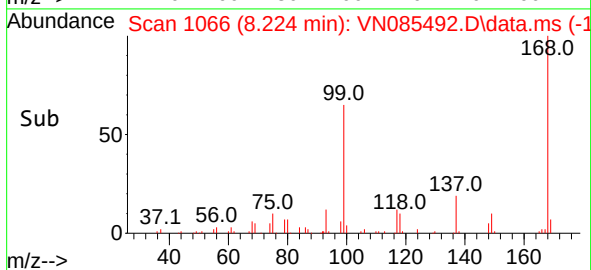
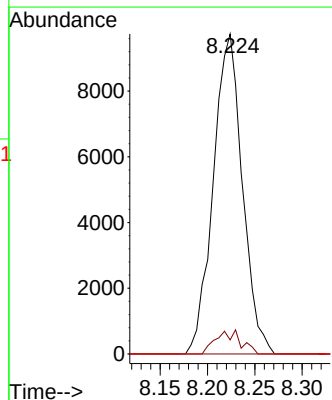
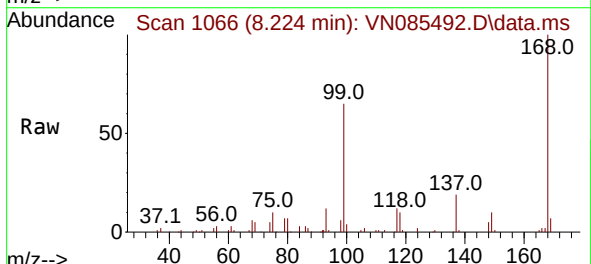
Instrument :
MSVOA_N
ClientSampleId :

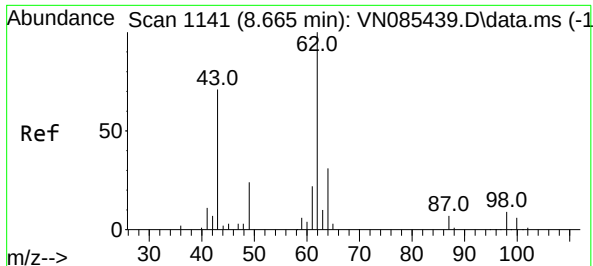
Tgt Ion: 43 Resp: 4193
Ion Ratio Lower Upper
43 100
61 10.0 10.9 16.3#
70 5.1 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 5.409 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 117 Resp: 20814
Ion Ratio Lower Upper
117 100
119 4.4 75.4 113.2#
121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.339 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.018 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

Instrument :

MSVOA_N

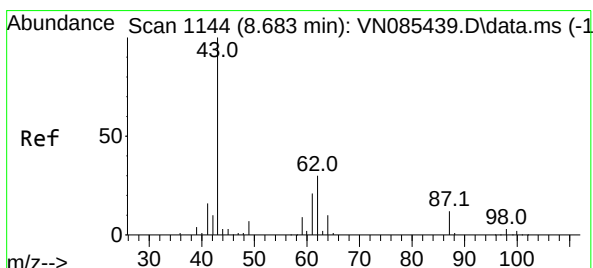
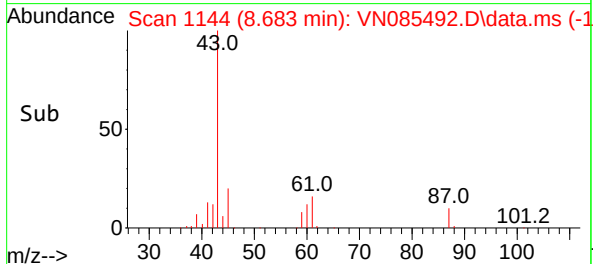
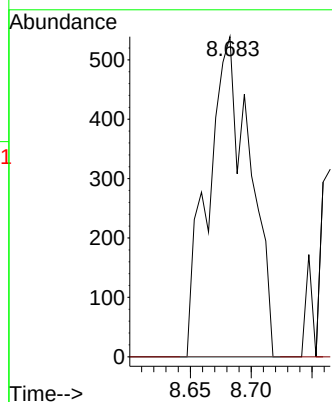
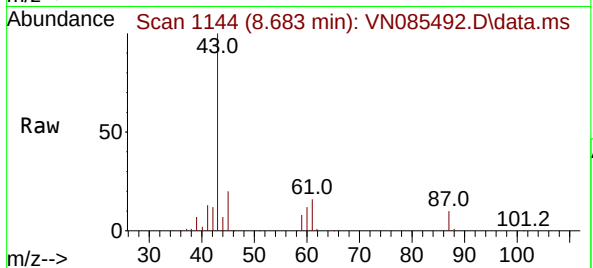
ClientSampleId :

Tgt Ion: 62 Resp: 1289

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 44.599 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

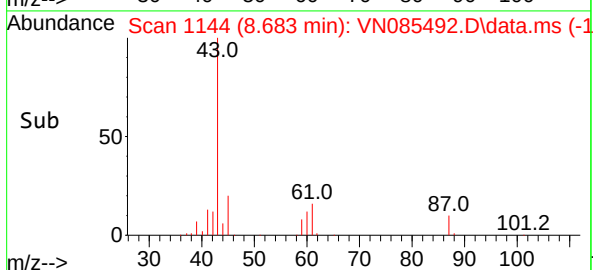
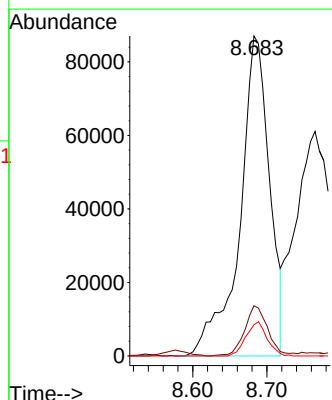
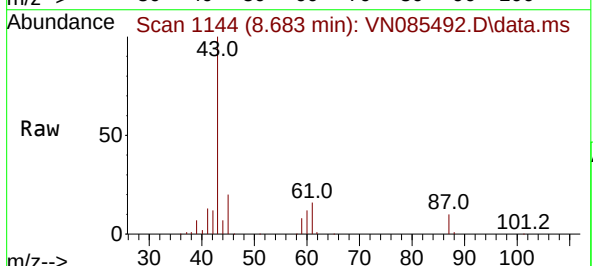
Tgt Ion: 43 Resp: 242469

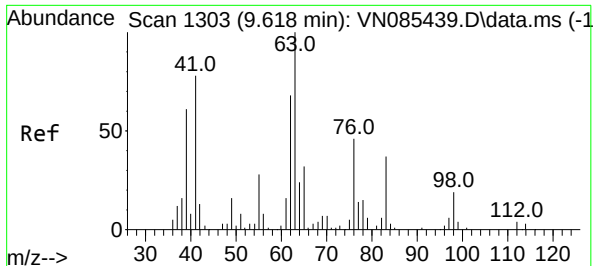
Ion Ratio Lower Upper

43 100

61 12.1 20.7 31.1#

87 7.5 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.662 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

Instrument :

MSVOA_N

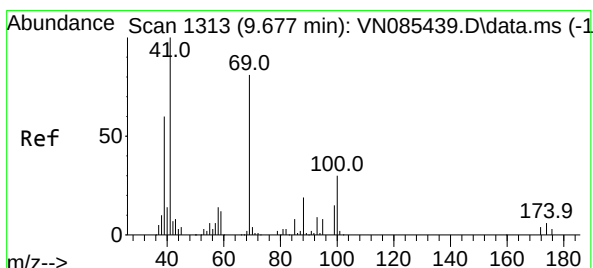
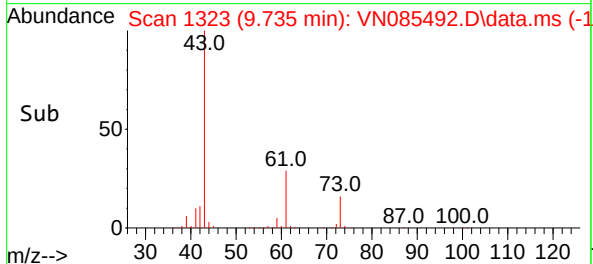
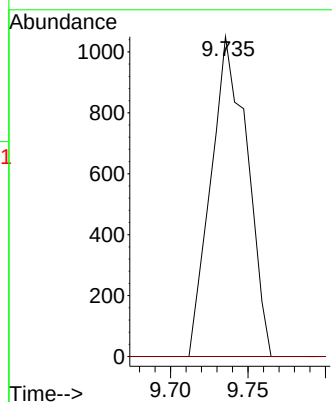
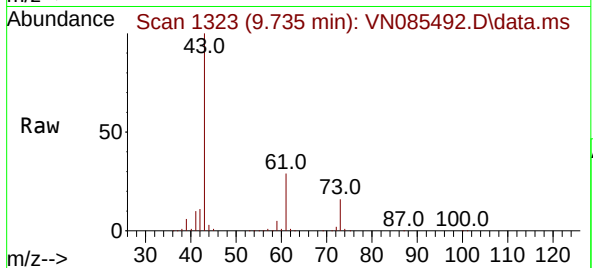
ClientSampleId :

Tgt Ion: 63 Resp: 1707

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 2.010 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

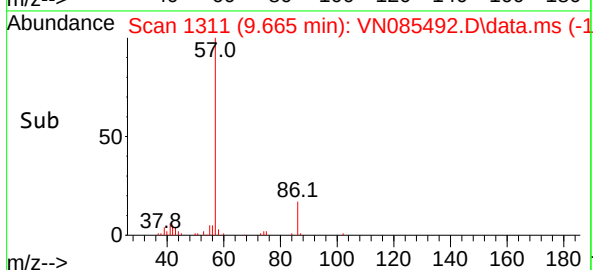
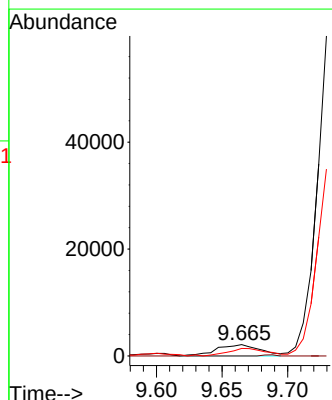
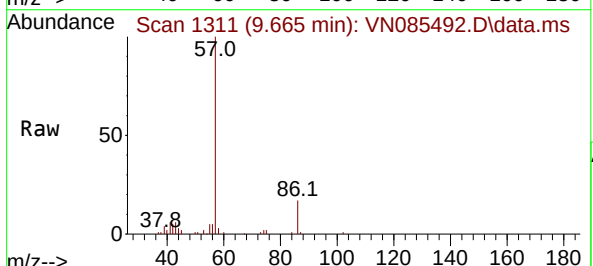
Tgt Ion: 41 Resp: 4917

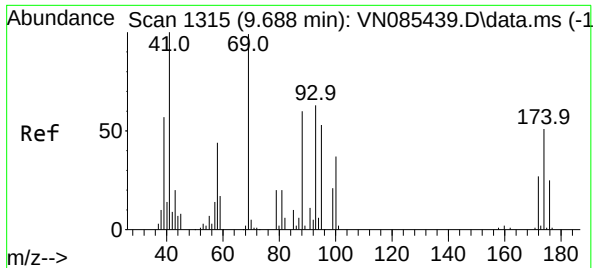
Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 56.5 49.0 73.6





#49

1,4-Dioxane

Concen: 1.359 ug/l

RT: 9.724 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN085492.D

Acq: 17 Jan 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :

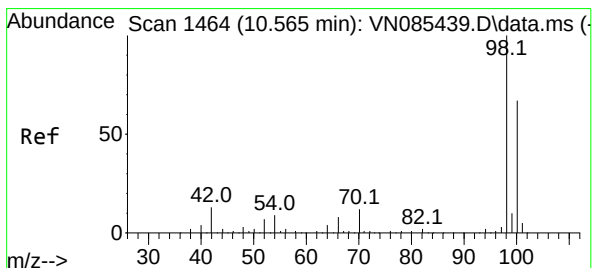
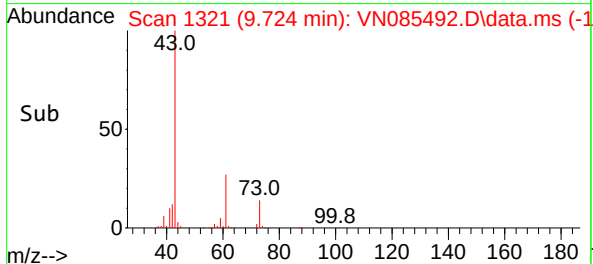
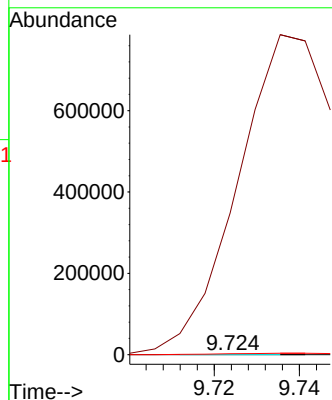
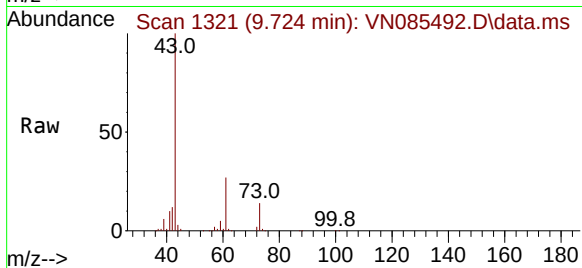
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 2555037.5 26.6 39.8#

58 13444.6 59.5 89.3#



#50

Toluene-d8

Concen: 52.064 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085492.D

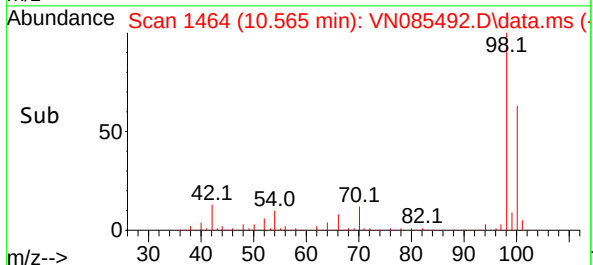
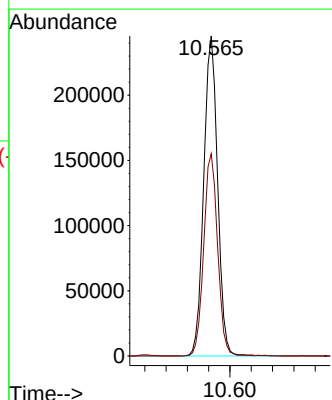
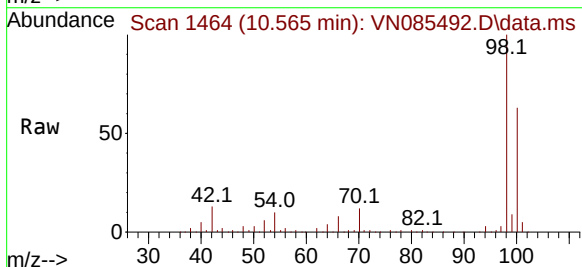
Acq: 17 Jan 2025 14:48

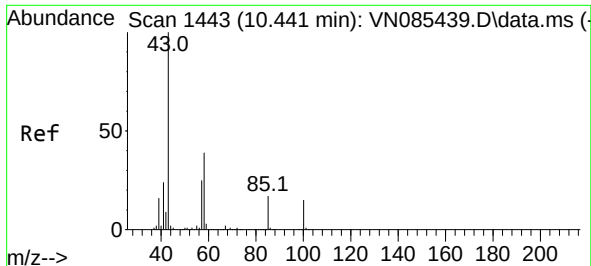
Tgt Ion: 98 Resp: 443044

Ion Ratio Lower Upper

98 100

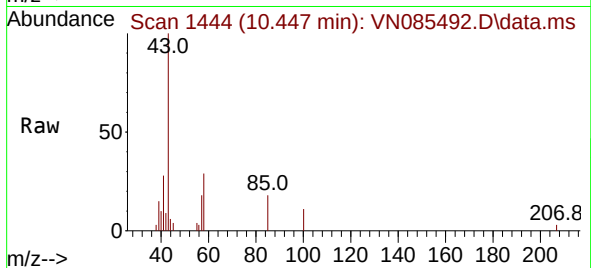
100 63.2 52.2 78.4



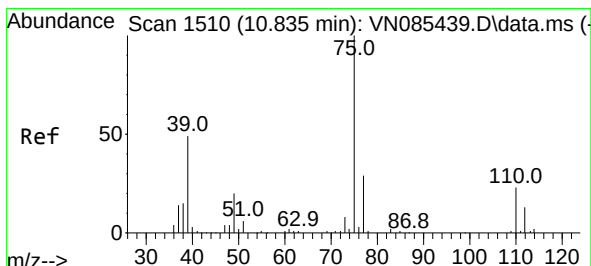
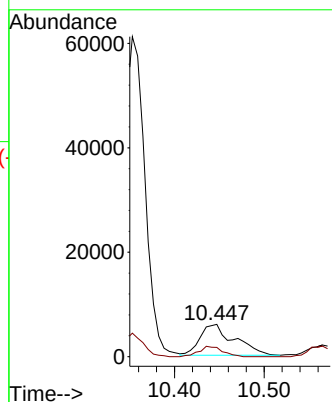
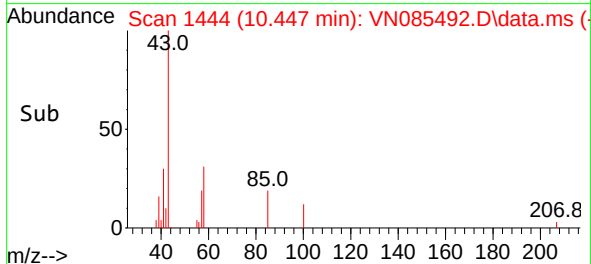


#51
4-Methyl-2-Pentanone
Concen: 4.966 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :

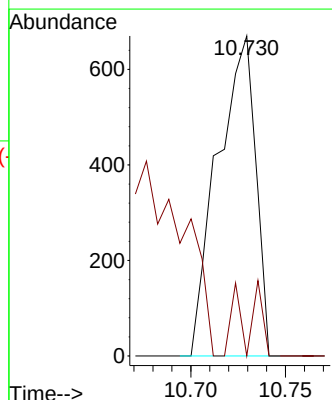
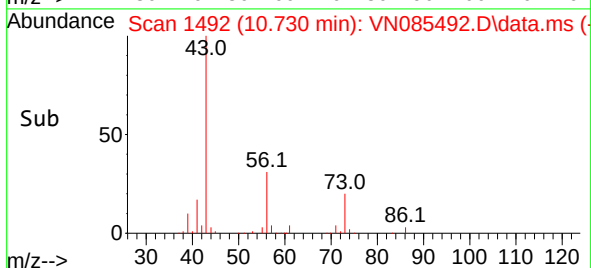
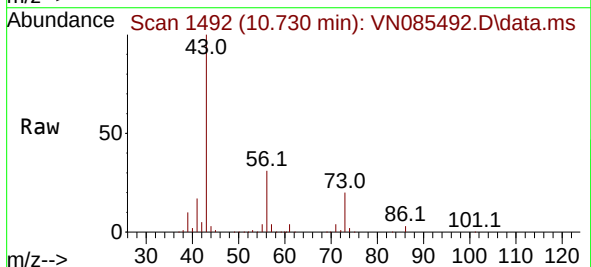


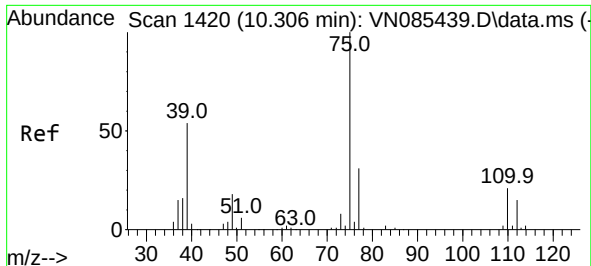
Tgt Ion: 43 Resp: 15667
Ion Ratio Lower Upper
43 100
58 23.2 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.260 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 75 Resp: 933
Ion Ratio Lower Upper
75 100
77 0.0 23.5 35.3#

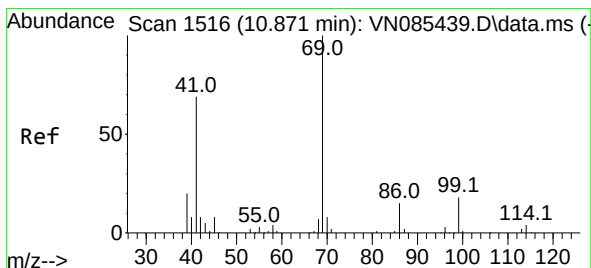
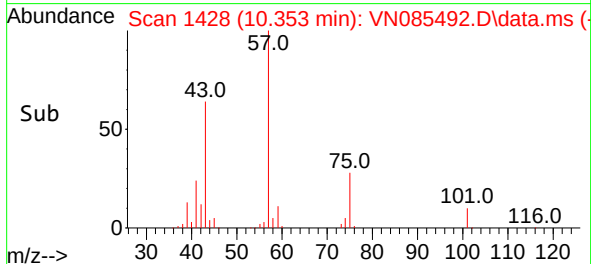
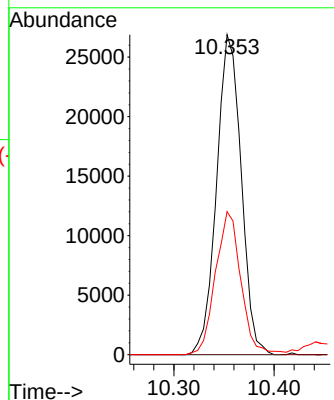
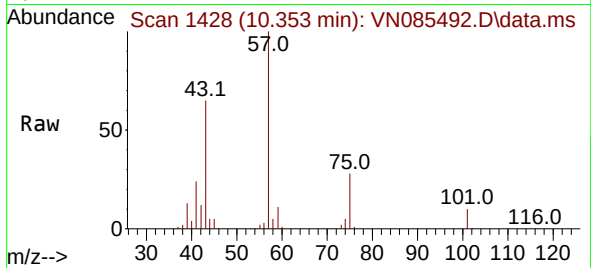




#54
cis-1,3-Dichloropropene
Concen: 11.961 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

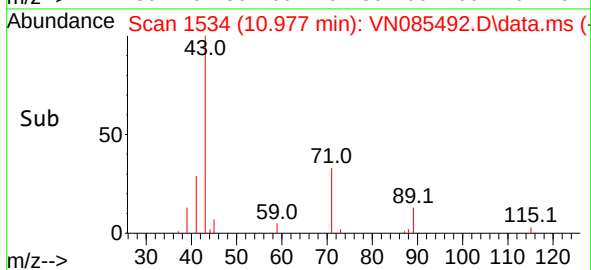
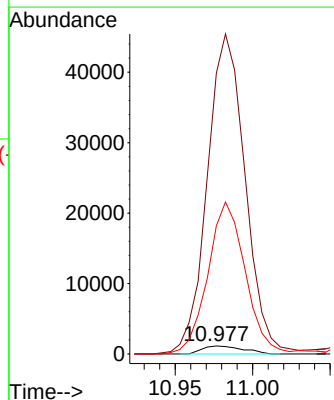
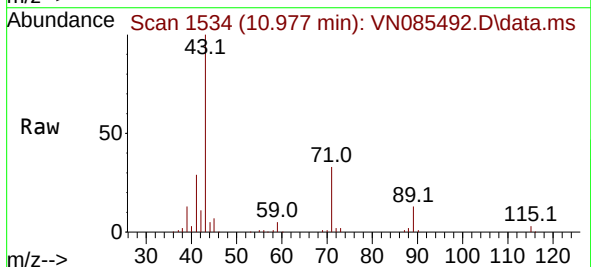
Instrument :
MSVOA_N
ClientSampleId :

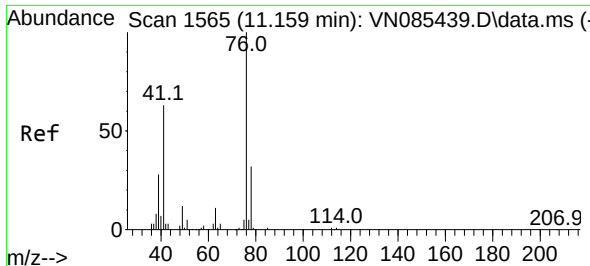
Tgt Ion: 75 Resp: 45790
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 44.7 43.1 64.7



#56
Ethyl methacrylate
Concen: 2.441 ug/l
RT: 10.977 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 69 Resp: 2070
Ion Ratio Lower Upper
69 100
41 3736.3 54.6 82.0#
39 1759.6 32.4 48.6#

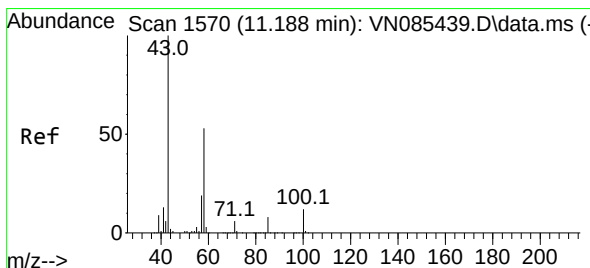
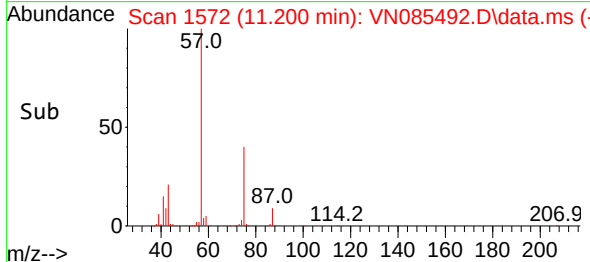
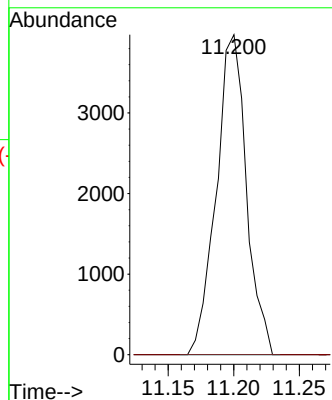
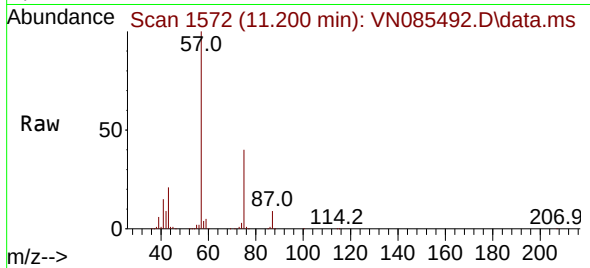




#57
1,3-Dichloropropane
Concen: 1.575 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

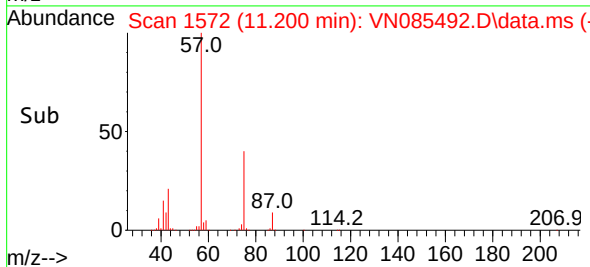
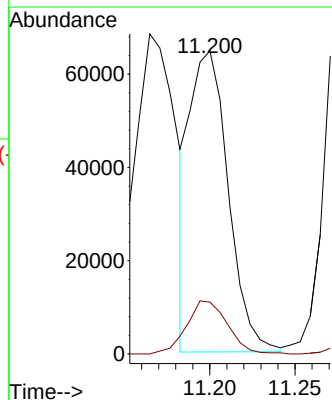
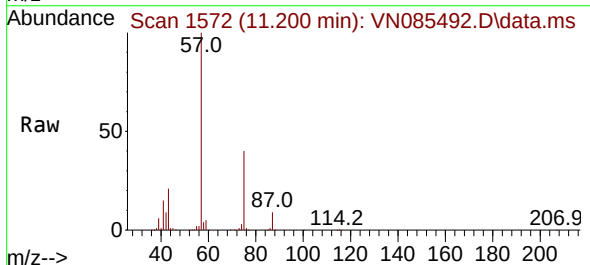
Instrument :
MSVOA_N
ClientSampleId :

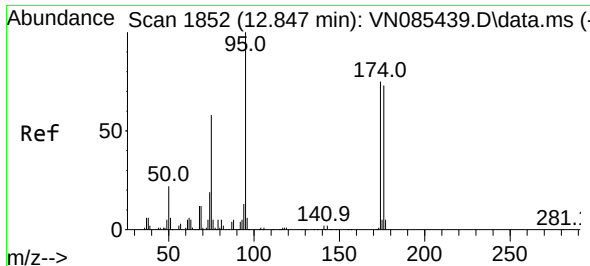
Tgt Ion: 76 Resp: 6343
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 45.883 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Tgt Ion: 43 Resp: 101851
Ion Ratio Lower Upper
43 100
58 18.7 26.2 78.6#

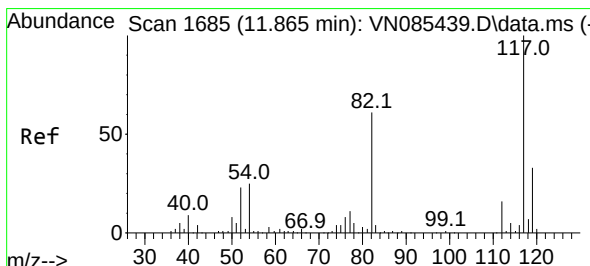
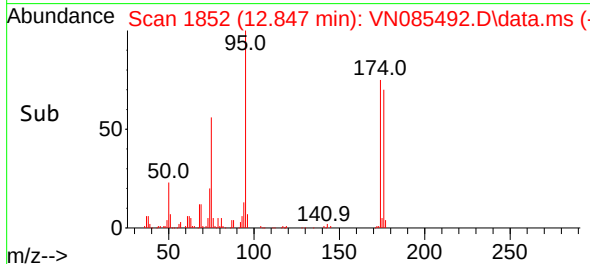
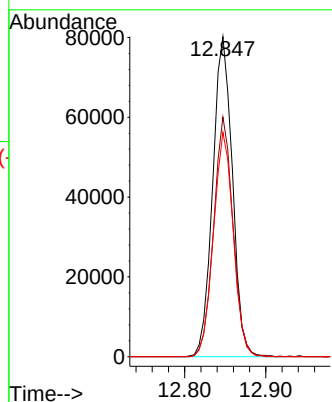
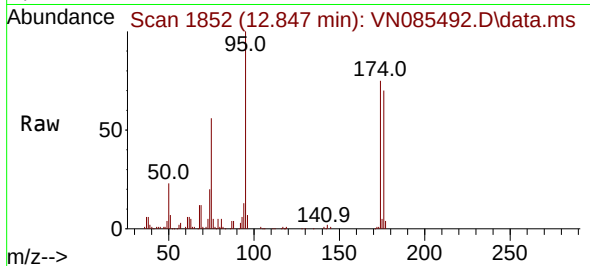




#62
4-Bromofluorobenzene
Concen: 46.311 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

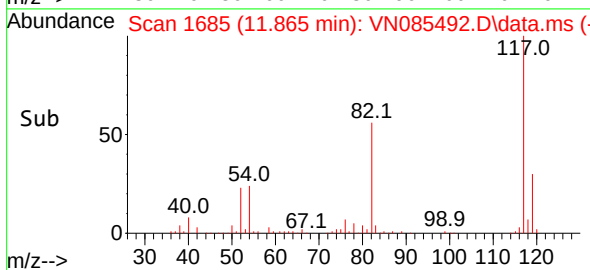
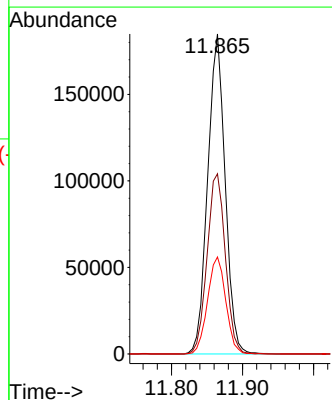
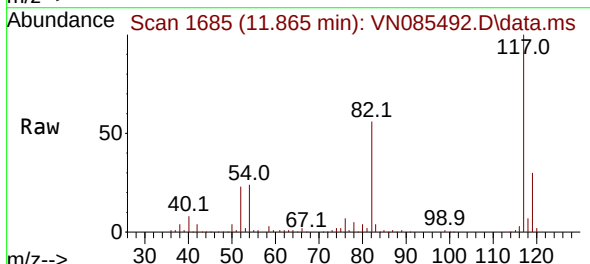
Instrument :
MSVOA_N
ClientSampleId :

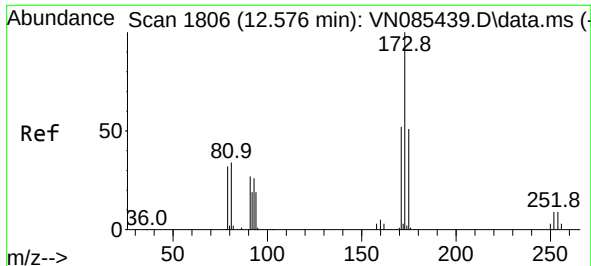
Tgt Ion: 95 Resp: 134810
Ion Ratio Lower Upper
95 100
174 74.1 0.0 145.0
176 70.6 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

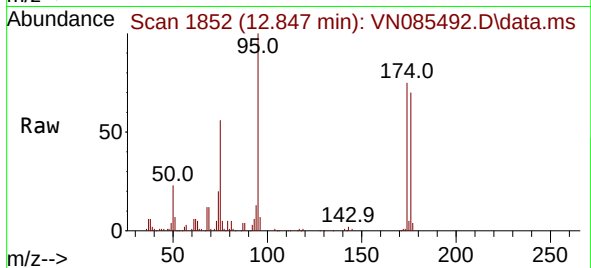
Tgt Ion: 117 Resp: 316026
Ion Ratio Lower Upper
117 100
82 56.3 48.6 72.8
119 30.3 26.6 39.8



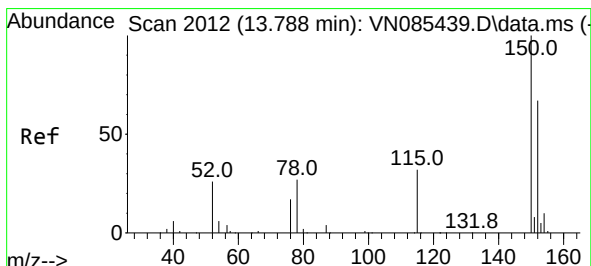
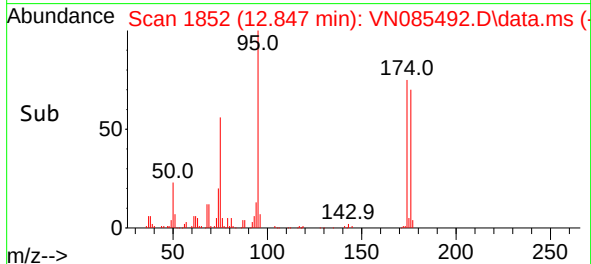
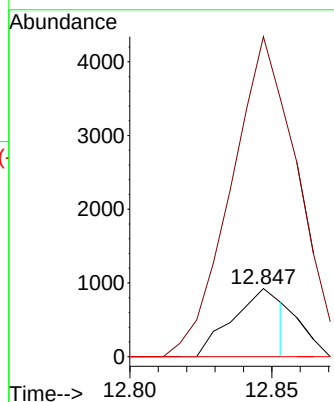


#71
Bromoform
Concen: 0.614 ug/l
RT: 12.847 min Scan# 1116
Delta R.T. 0.271 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :

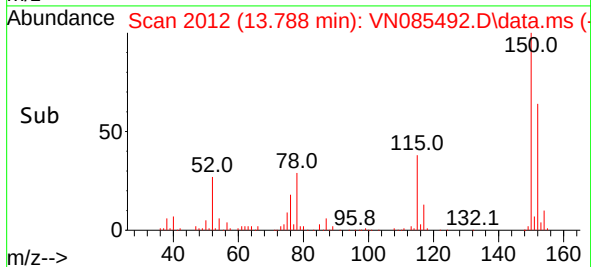
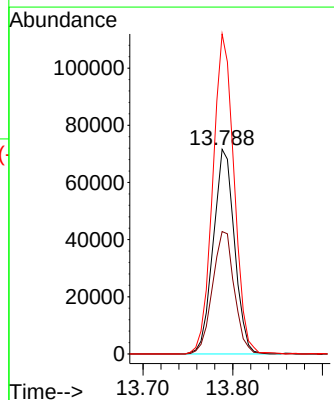
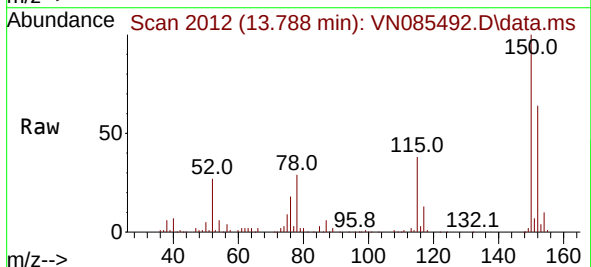


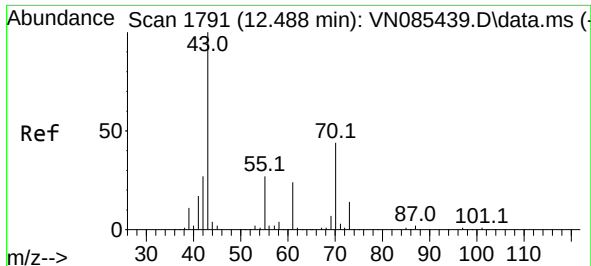
Tgt Ion:173 Resp: 1116
Ion Ratio Lower Upper
173 100
175 487.8 24.4 73.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

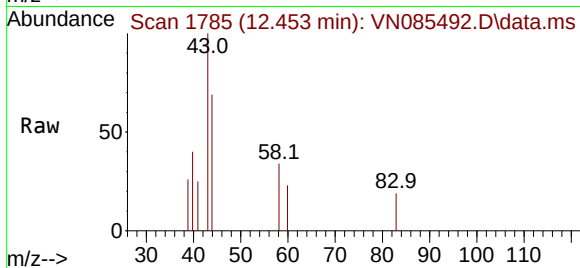
Tgt Ion:152 Resp: 117938
Ion Ratio Lower Upper
152 100
115 61.2 31.1 93.3
150 156.2 0.0 343.6



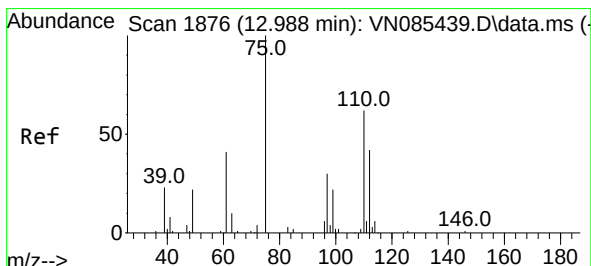
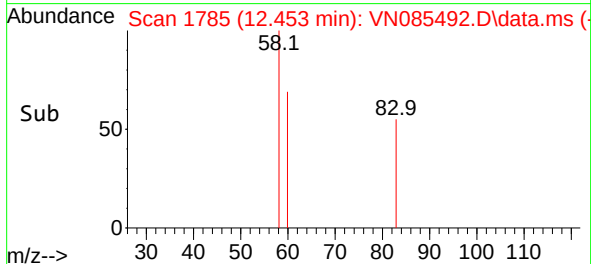
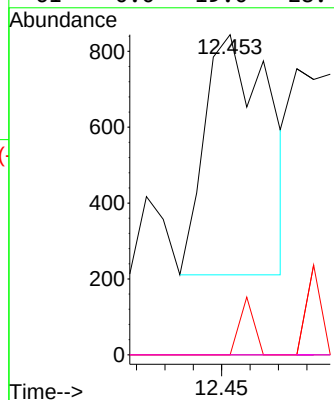


#74
N-amy1 acetate
Concen: 0.277 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :

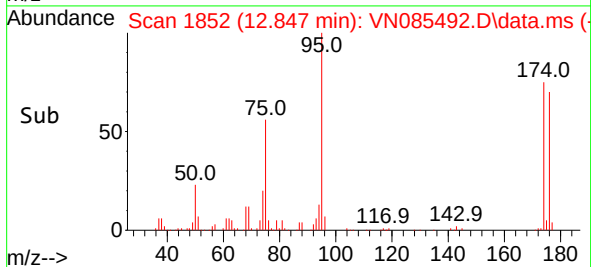
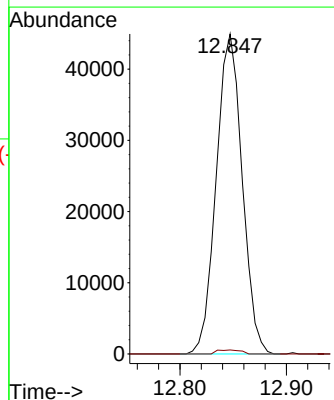
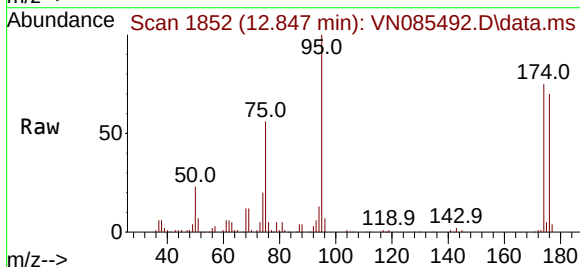


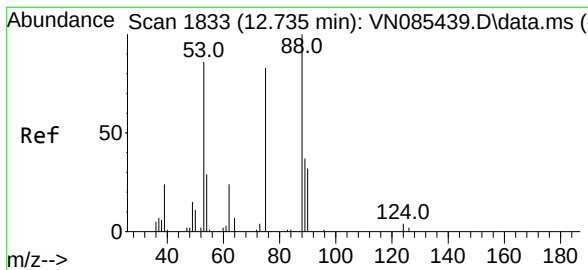
Tgt Ion: 43	Resp: 992
Ion Ratio	Lower Upper
43 100	
70 0.0	34.0 51.0#
55 5.4	21.4 32.2#
61 0.0	19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 31.676 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

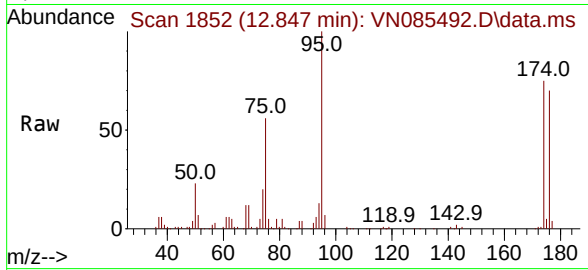
Tgt Ion: 75	Resp: 75931
Ion Ratio	Lower Upper
75 100	
77 1.1	109.7 329.2#





#81
trans-1,4-Dichloro-2-butene
Concen: 85.701 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN085492.D
Acq: 17 Jan 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.2	95.6	143.4#
89	0.0	37.0	55.6#

