

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086109.D
 Acq On : 25 Mar 2025 18:40
 Operator : JC\MD
 Sample : Q1619-12RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Mar 26 03:24:28 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

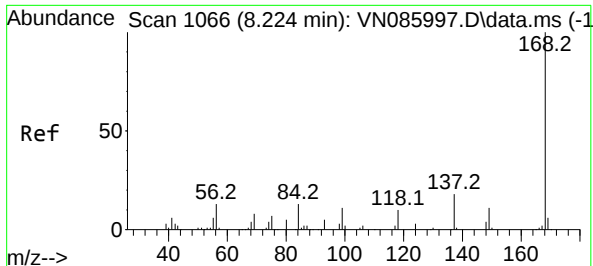
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	165440	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	317338	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	307927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113929	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129564	57.192	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.380%			
35) Dibromofluoromethane	8.165	113	112585	50.829	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.660%			
50) Toluene-d8	10.565	98	413780	51.473	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.940%			
62) 4-Bromofluorobenzene	12.847	95	132011	46.047	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.100%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.506	59	197	0.614	ug/l #	73
16) Acetone	4.430	43	29742	42.973	ug/l	98
18) Methyl Acetate	5.036	43	1937	1.131	ug/l #	58
20) Methylene Chloride	5.277	84	11188	5.526	ug/l	93
25) 2-Butanone	7.483	43	4608	4.614	ug/l	90
30) Chloroform	7.977	83	919	0.251	ug/l	92
31) Cyclohexane	8.224	56	3338	1.183	ug/l #	5
36) 1,1-Dichloropropene	8.230	75	13187	4.521	ug/l #	50
37) Ethyl Acetate	7.559	43	2265	0.921	ug/l #	64
38) Carbon Tetrachloride	8.224	117	16865	4.398	ug/l #	19
43) Isopropyl Acetate	8.682	43	101204	18.981	ug/l #	82
45) 1,2-Dichloropropane	9.741	63	1146	0.550	ug/l #	44
48) Methyl methacrylate	9.665	41	2486	1.413	ug/l #	7
51) 4-Methyl-2-Pentanone	10.435	43	8230	3.500	ug/l #	61
54) cis-1,3-Dichloropropene	10.359	75	29975	8.547	ug/l #	65
56) Ethyl methacrylate	10.988	69	1564	0.766	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	4479	1.230	ug/l #	42
59) 2-Hexanone	11.200	43	40429	23.601	ug/l #	54
71) Bromoform	12.847	173	1131	0.517	ug/l #	1
74) N-amyl acetate	12.465	43	721	0.277	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	66268	25.981	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	66268	68.689	ug/l #	16
95) Naphthalene	15.641	128	10836	1.915	ug/l #	94

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

Quant Time: Mar 26 03:24:28 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

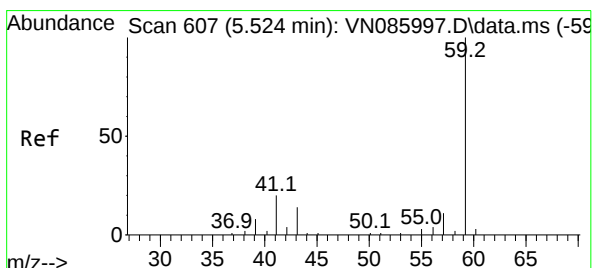
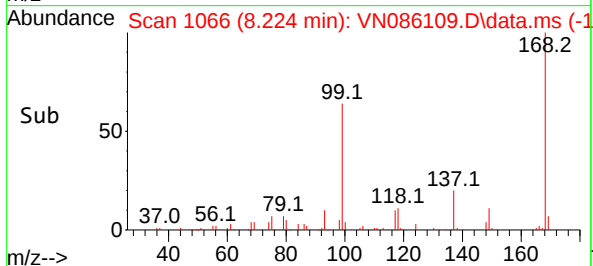
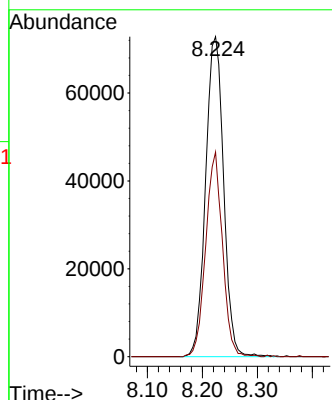
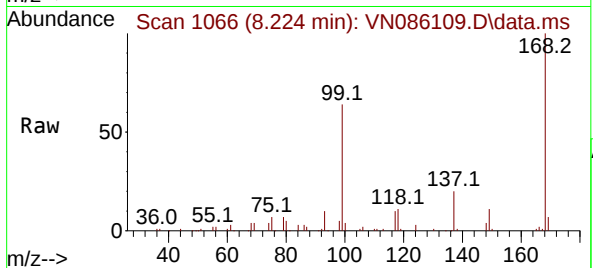




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

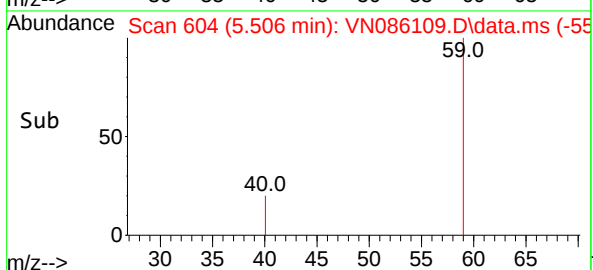
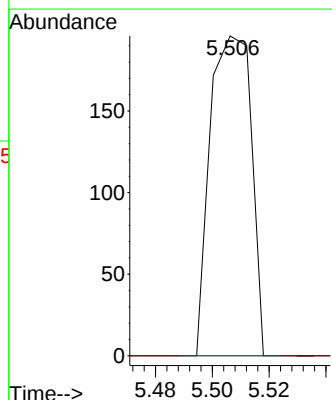
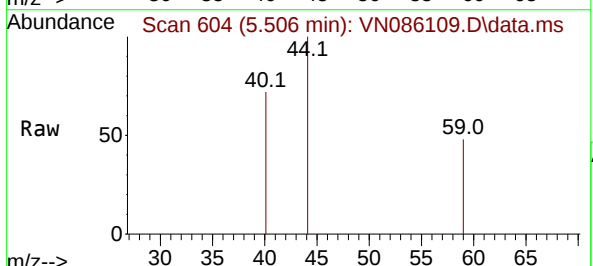
Instrument :
MSVOA_N
ClientSampleId :
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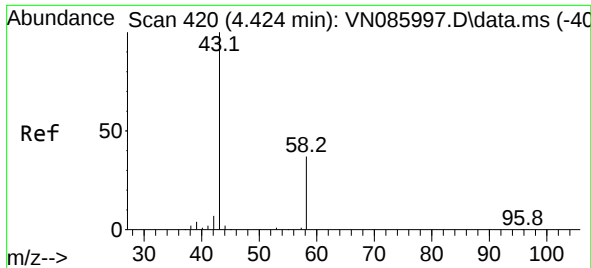
Tgt Ion:168 Resp: 165440
Ion Ratio Lower Upper
168 100
99 63.9 49.4 74.2



#11
Tert butyl alcohol
Concen: 0.614 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.018 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion: 59 Resp: 197
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 42.973 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

Instrument :

MSVOA_N

ClientSampleId :

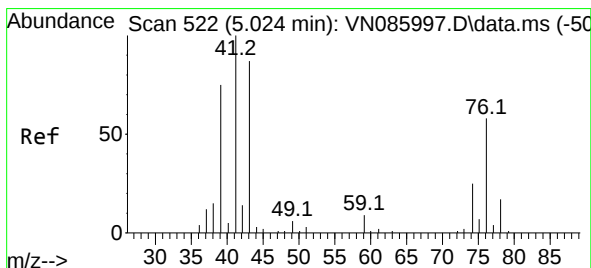
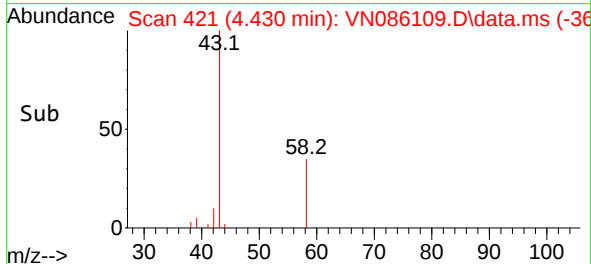
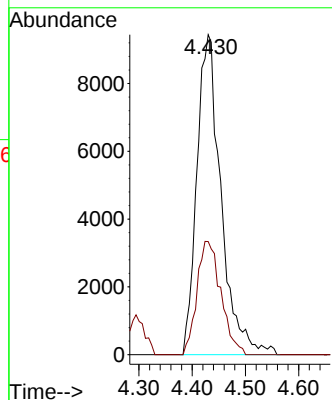
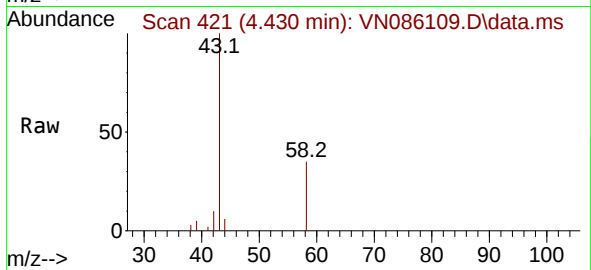
TP-4

Tgt Ion: 43 Resp: 29742

Ion Ratio Lower Upper

43 100

58 35.3 29.4 44.2



#18

Methyl Acetate

Concen: 1.131 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN086109.D

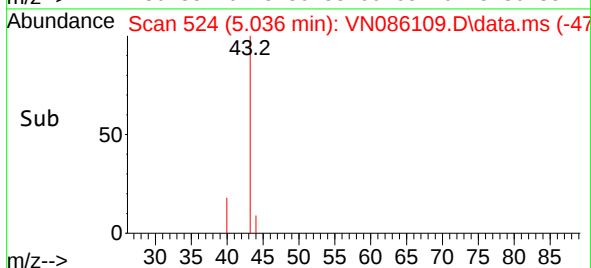
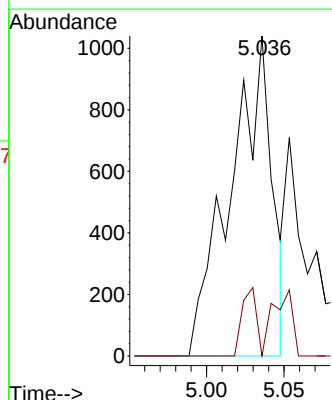
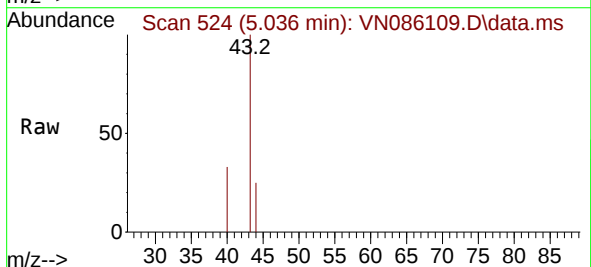
Acq: 25 Mar 2025 18:40

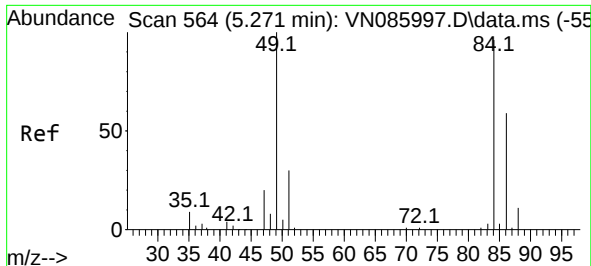
Tgt Ion: 43 Resp: 1937

Ion Ratio Lower Upper

43 100

74 7.3 23.9 35.9#

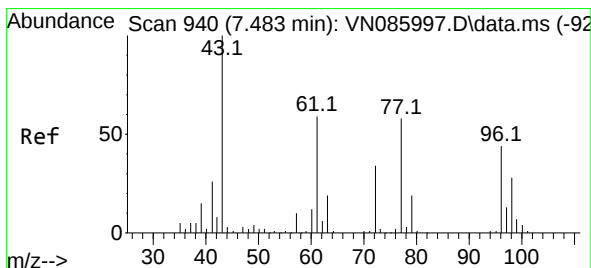
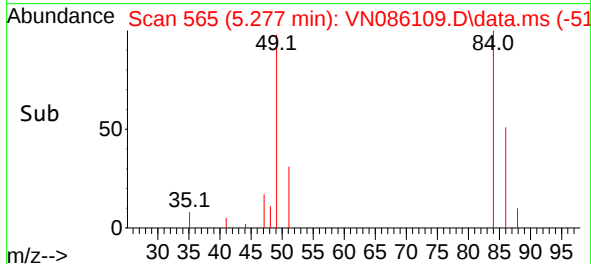
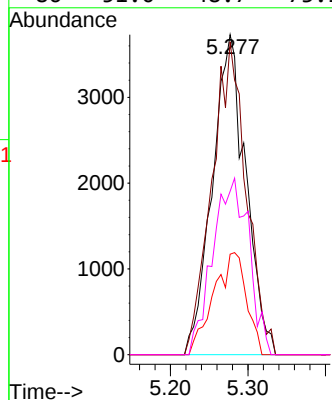
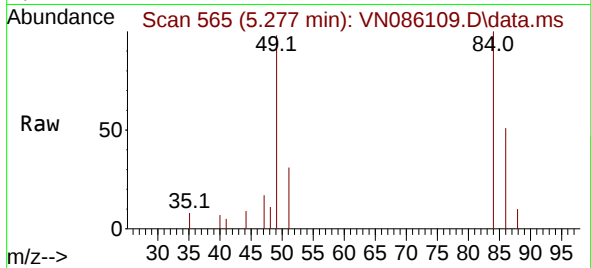




#20
Methylene Chloride
Concen: 5.526 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

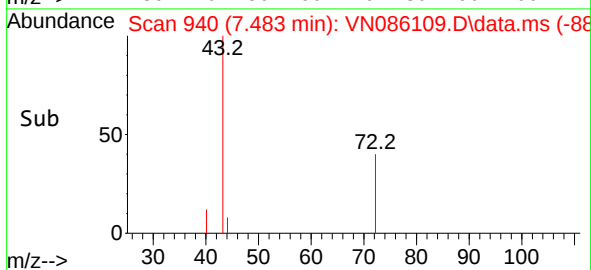
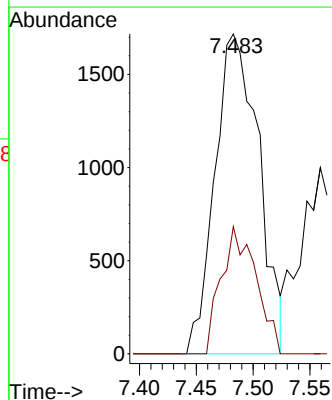
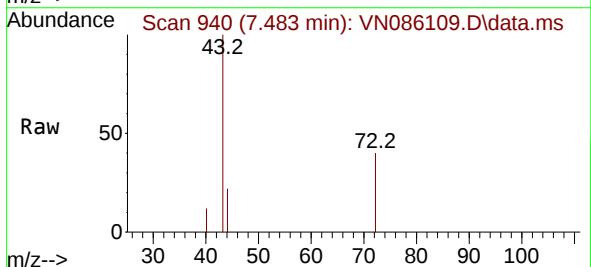
Instrument :
MSVOA_N
ClientSampleId :
TP-4

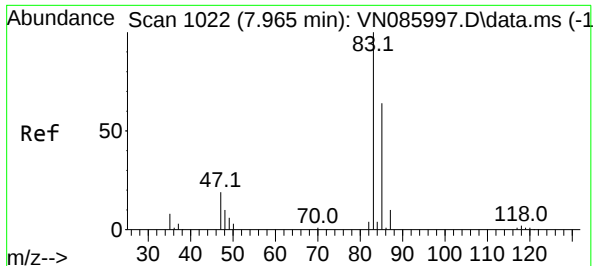
Tgt Ion: 84	Resp: 11188
Ion Ratio	Lower Upper
84 100	
49 97.8	83.3 124.9
51 31.4	24.8 37.2
86 51.0	48.7 73.1



#25
2-Butanone
Concen: 4.614 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion: 43	Resp: 4608		
Ion Ratio	Lower	Upper	
43 100			
72 39.8	27.4	41.0	





#30

Chloroform

Concen: 0.251 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. 0.012 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

Instrument :

MSVOA_N

ClientSampleId :

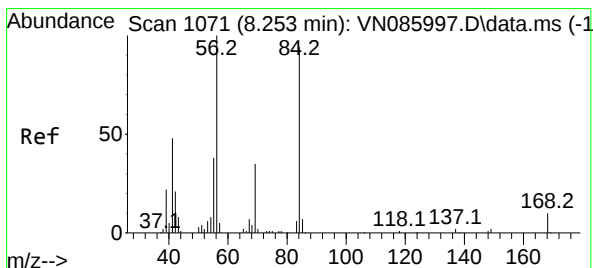
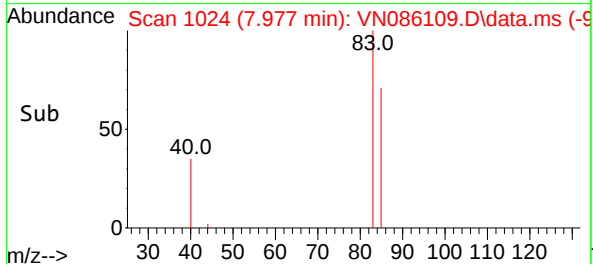
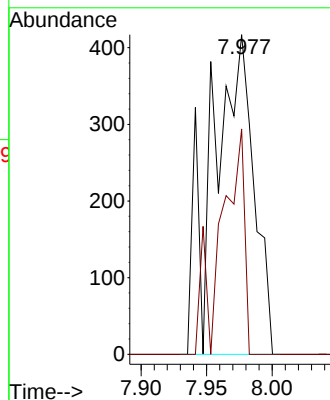
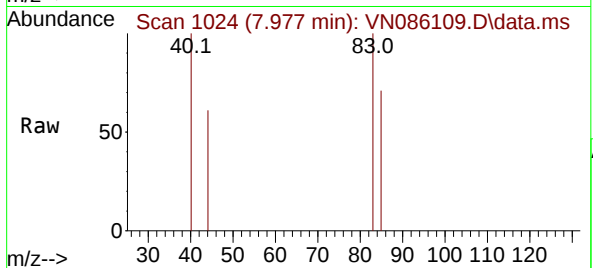
TP-4

Tgt Ion: 83 Resp: 919

Ion Ratio Lower Upper

83 100

85 70.5 51.5 77.3



#31

Cyclohexane

Concen: 1.183 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

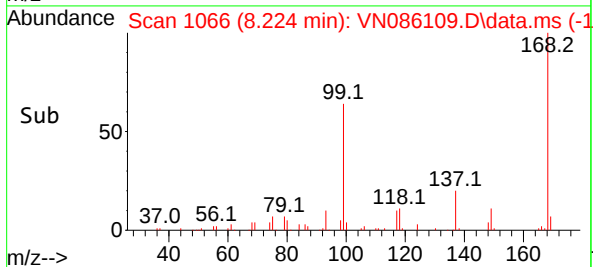
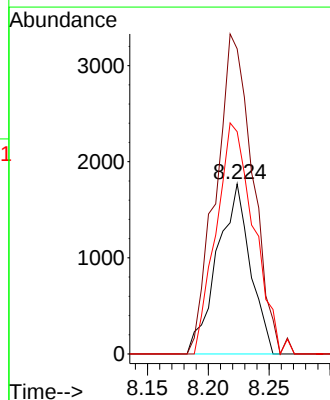
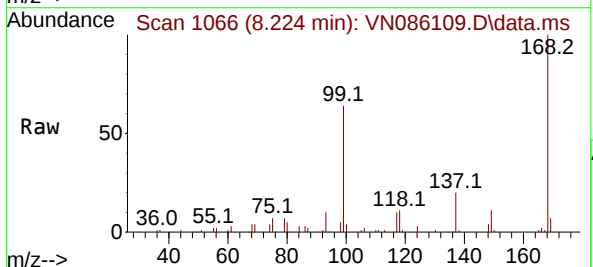
Tgt Ion: 56 Resp: 3338

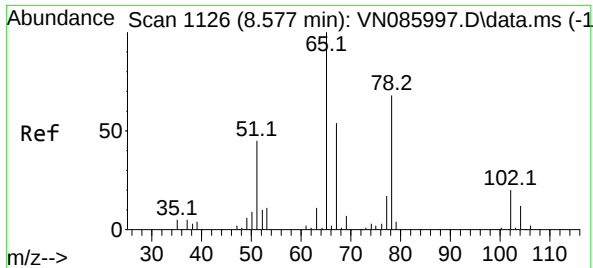
Ion Ratio Lower Upper

56 100

69 179.4 28.0 42.0#

84 130.7 75.0 112.6#

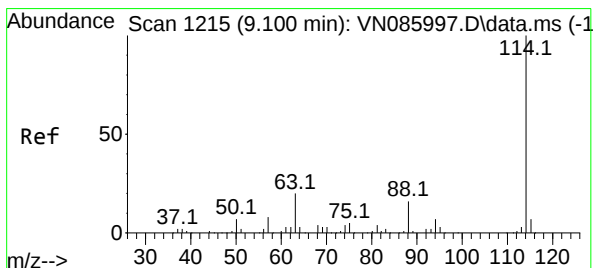
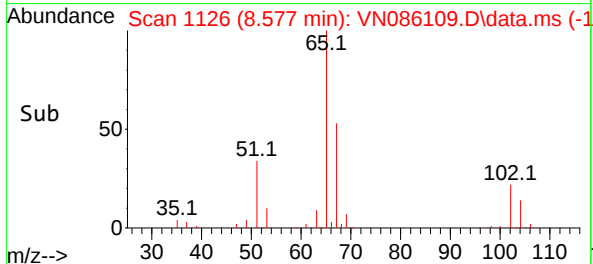
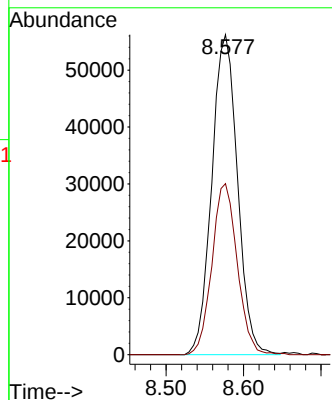
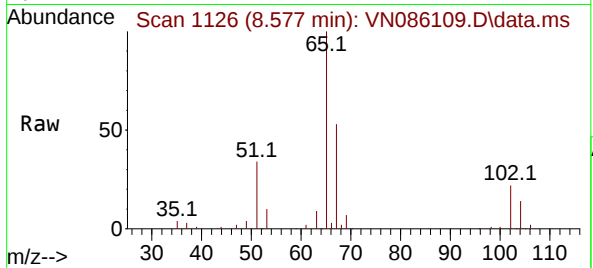




#33
 1,2-Dichloroethane-d4
 Concen: 57.192 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086109.D
 Acq: 25 Mar 2025 18:40

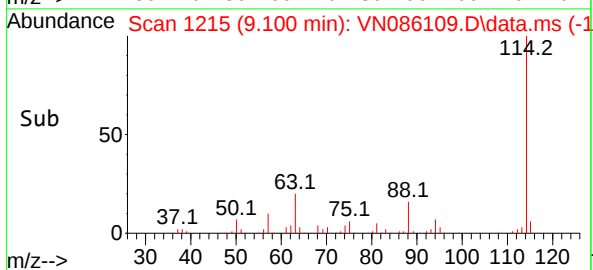
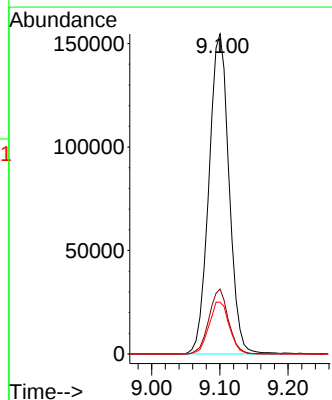
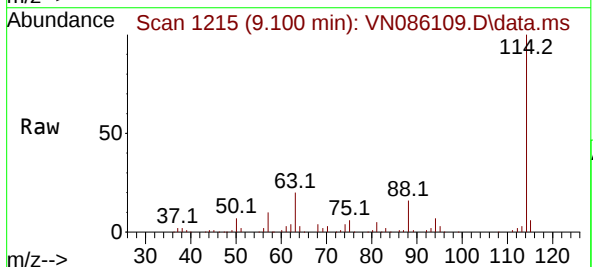
Instrument :
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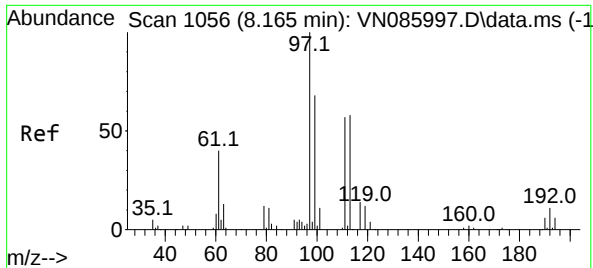
Tgt Ion: 65 Resp: 129564
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 102.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086109.D
 Acq: 25 Mar 2025 18:40

Tgt Ion: 114 Resp: 317338
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.6
 88 16.1 0.0 32.6

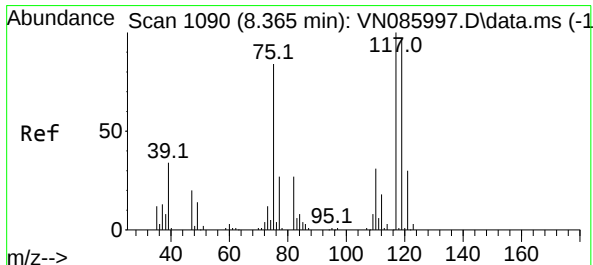
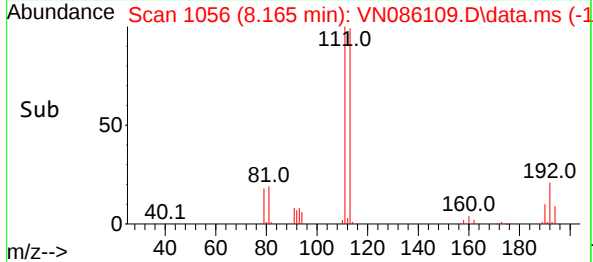
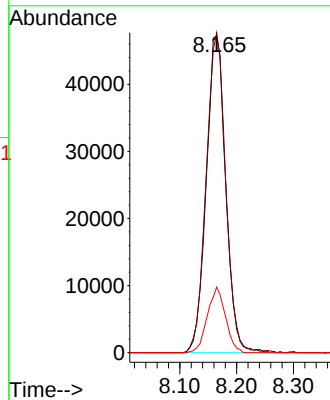
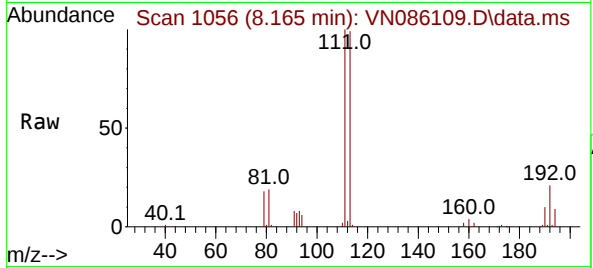




#35
Dibromofluoromethane
Concen: 50.829 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

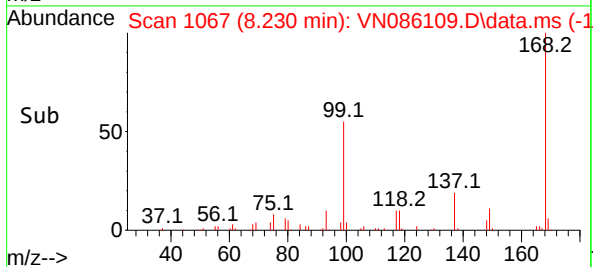
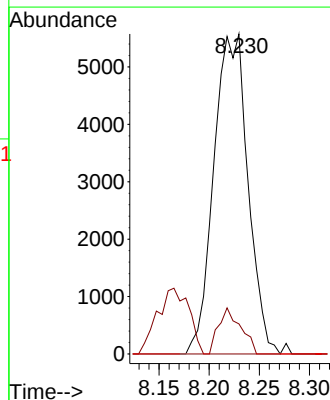
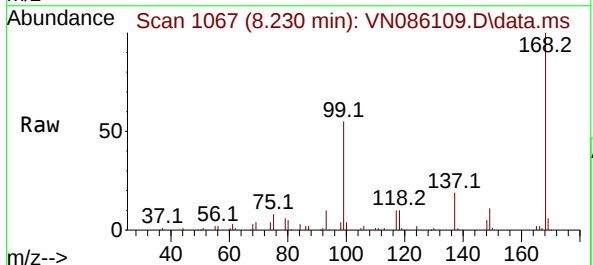
Instrument :
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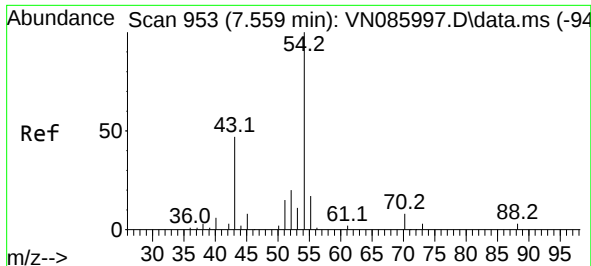
Tgt Ion:113 Resp: 112585
Ion Ratio Lower Upper
113 100
111 101.0 81.8 122.8
192 19.2 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.521 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion: 75 Resp: 13187
Ion Ratio Lower Upper
75 100
110 9.4 17.8 53.3#
77 0.0 25.0 37.4#

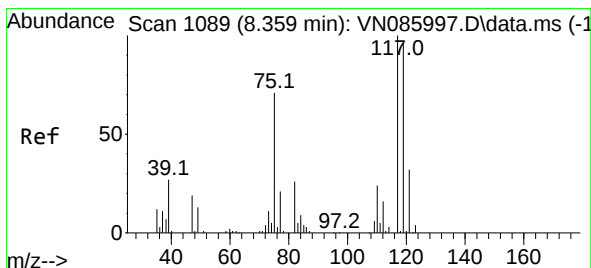
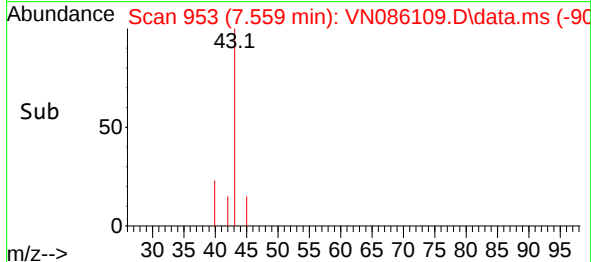
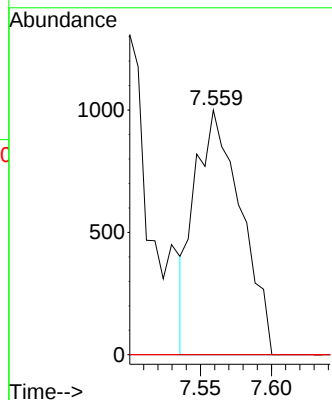
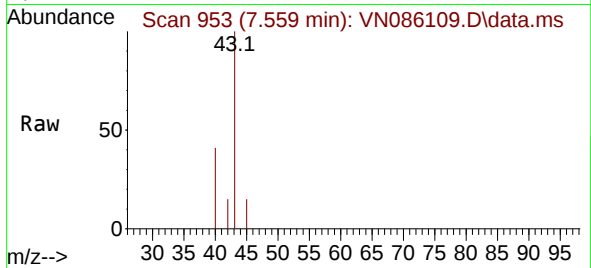




#37
Ethyl Acetate
Concen: 0.921 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

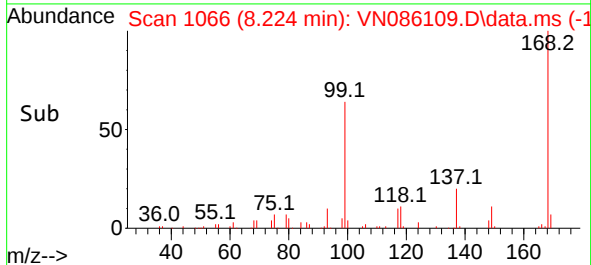
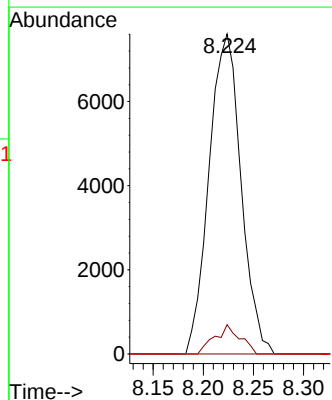
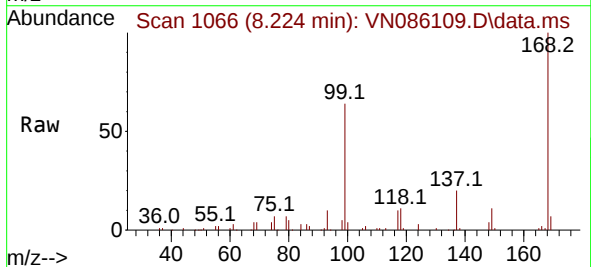
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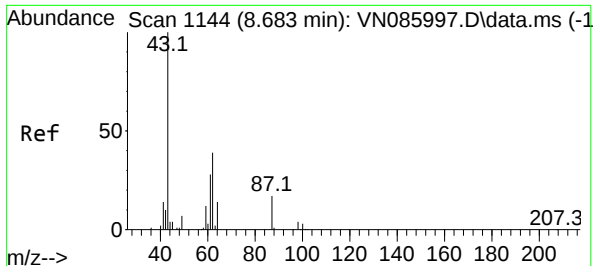
Tgt Ion: 43 Resp: 2265
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 0.0 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 4.398 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion: 117 Resp: 16865
Ion Ratio Lower Upper
117 100
119 9.2 77.0 115.4#
121 0.0 25.6 38.4#

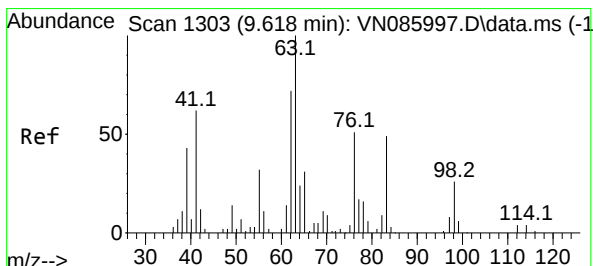
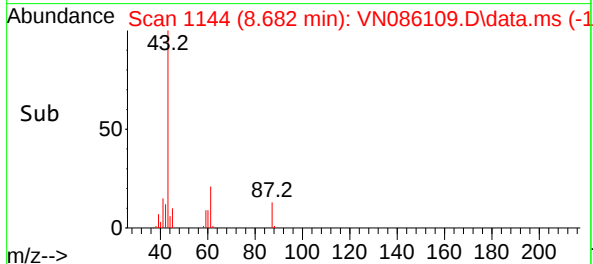
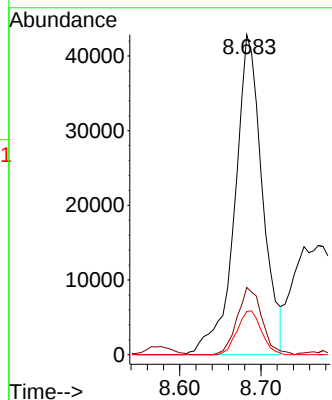
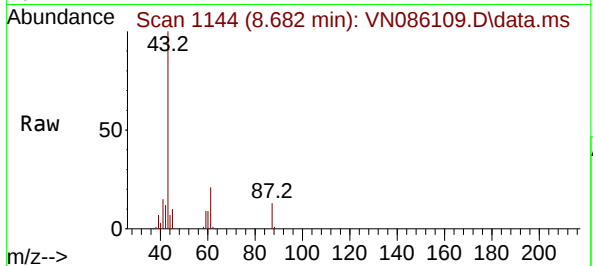




#43
Isopropyl Acetate
Concen: 18.981 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

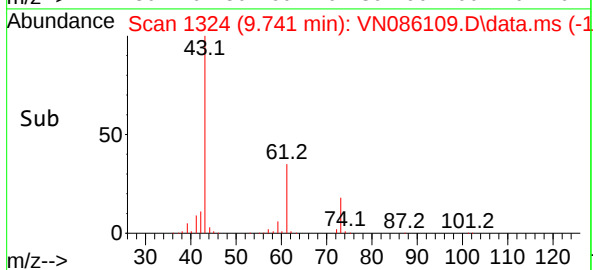
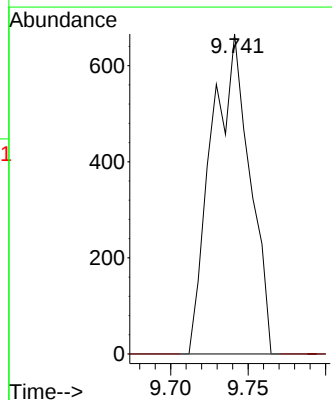
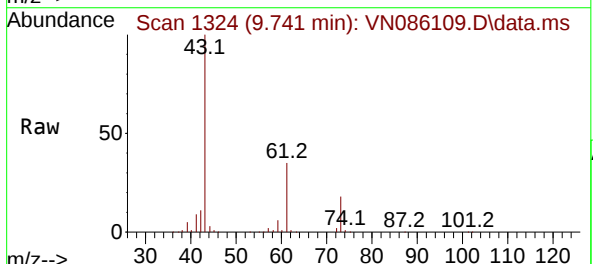
Instrument :
MSVOA_N
ClientSampleId :
TP-4

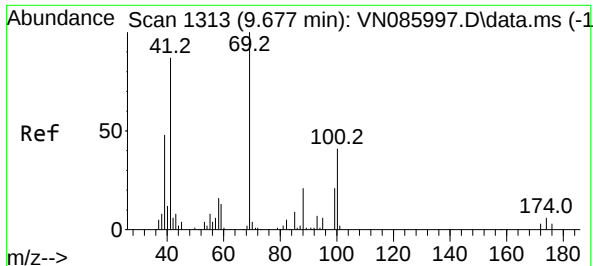
Tgt Ion: 43 Resp: 101204
Ion Ratio Lower Upper
43 100
61 18.8 25.0 37.6#
87 12.0 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.550 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion: 63 Resp: 1146
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 1.413 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

Instrument :

MSVOA_N

ClientSampleId :

TP-4

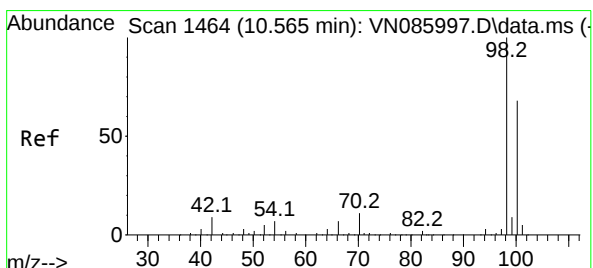
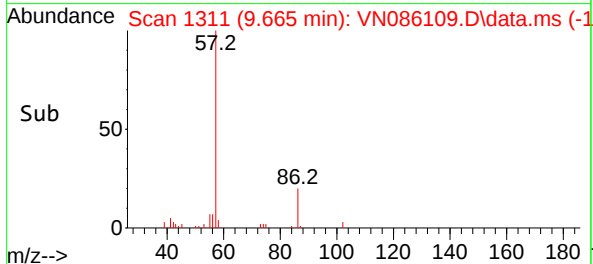
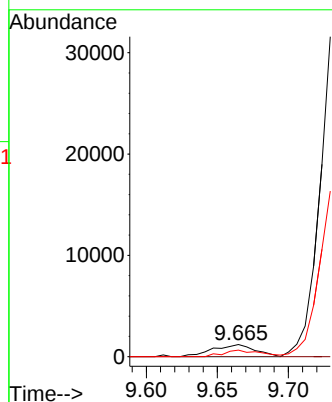
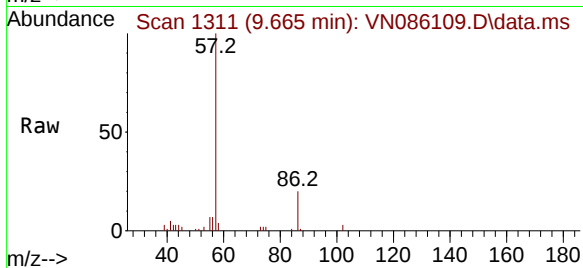
Tgt Ion: 41 Resp: 2486

Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 0.0 45.6 68.4#



#50

Toluene-d8

Concen: 51.473 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086109.D

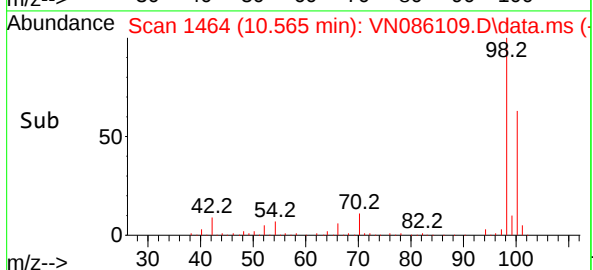
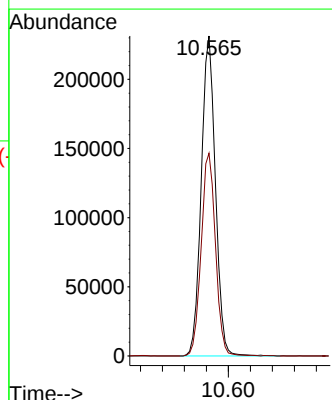
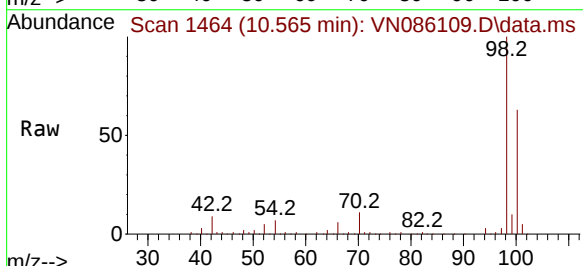
Acq: 25 Mar 2025 18:40

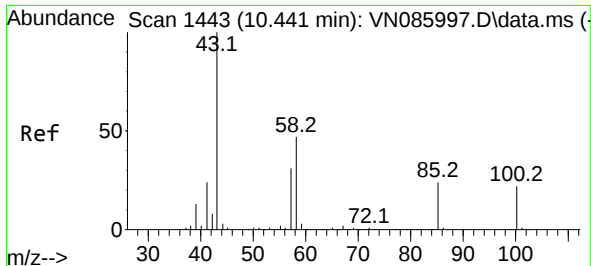
Tgt Ion: 98 Resp: 413780

Ion Ratio Lower Upper

98 100

100 64.0 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 3.500 ug/l

RT: 10.435 min Scan# 1443

Delta R.T. -0.006 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

Instrument :

MSVOA_N

ClientSampleId :

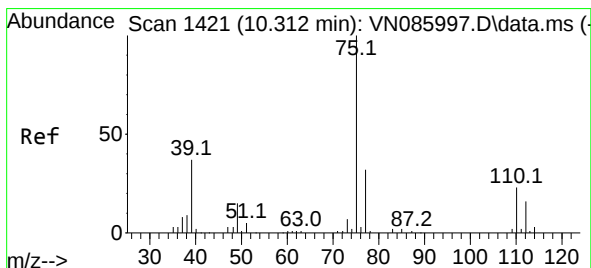
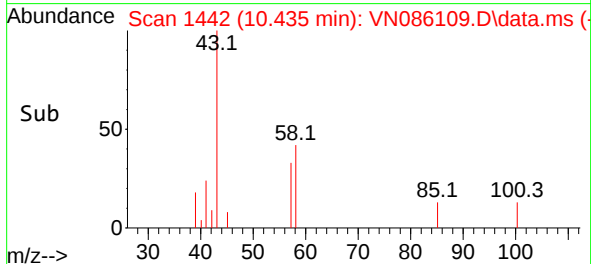
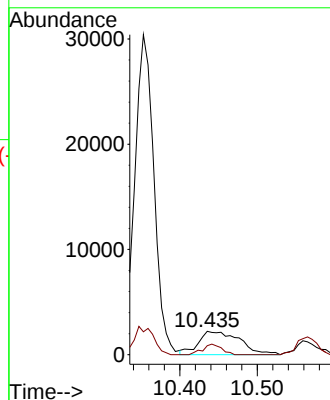
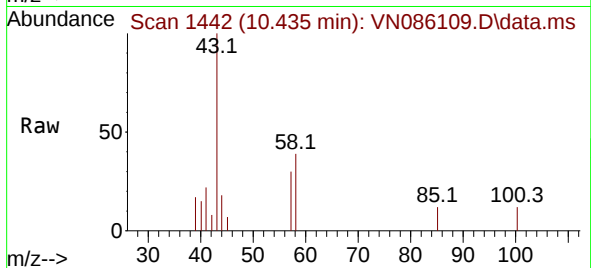
TP-4

Tgt Ion: 43 Resp: 8230

Ion Ratio Lower Upper

43 100

58 20.7 37.4 56.0#



#54

cis-1,3-Dichloropropene

Concen: 8.547 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

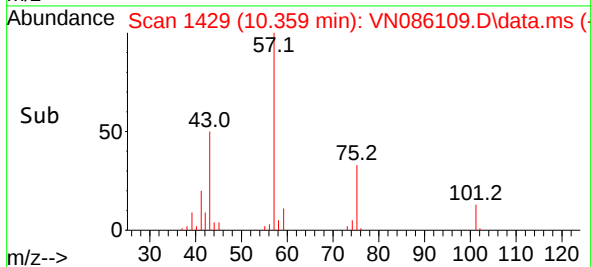
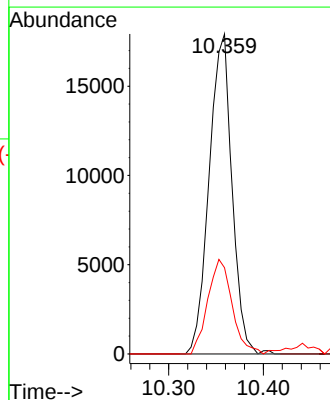
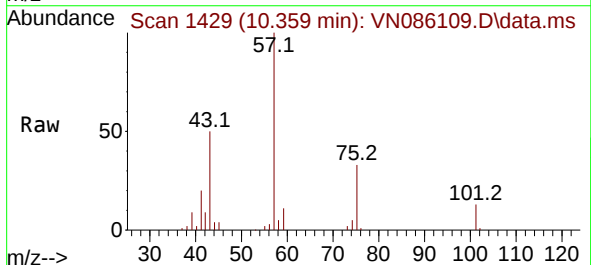
Tgt Ion: 75 Resp: 29975

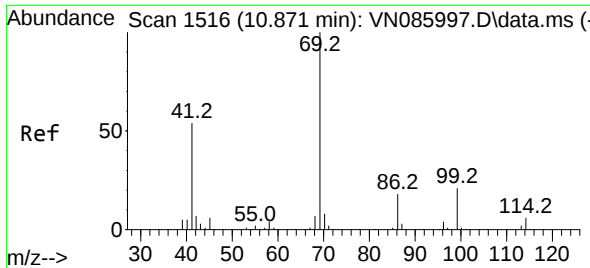
Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

39 27.0 29.6 44.4#

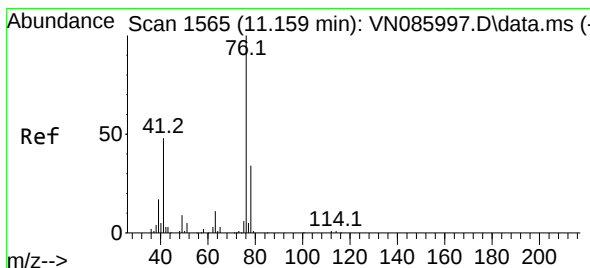
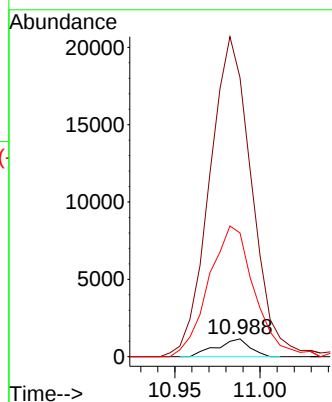
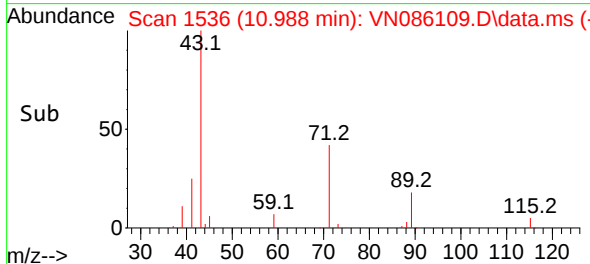
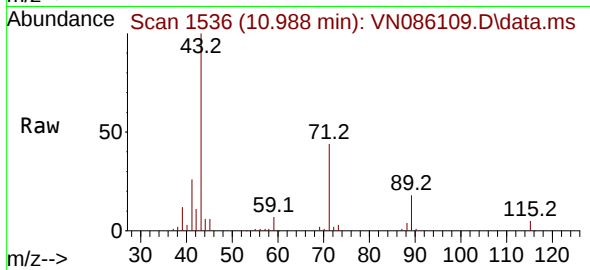




#56
Ethyl methacrylate
Concen: 0.766 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.117 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

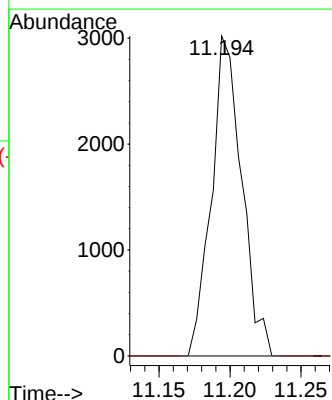
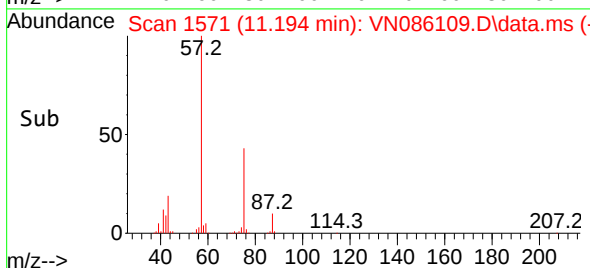
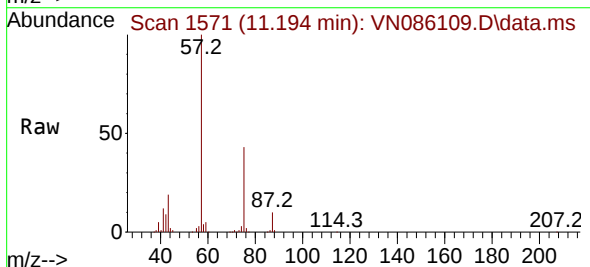
Instrument :
MSVOA_N
ClientSampleId :
TP-4

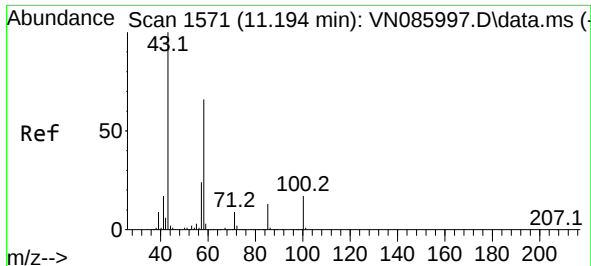
Tgt Ion: 69 Resp: 1564
Ion Ratio Lower Upper
69 100
41 2283.3 41.6 62.4#
39 1011.0 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.230 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion: 76 Resp: 4479
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

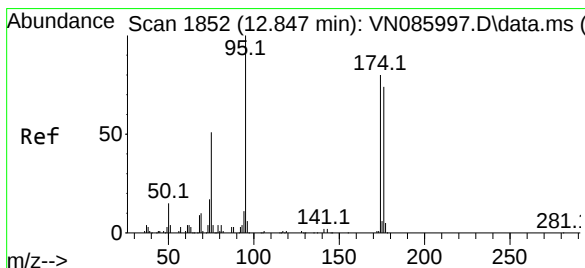
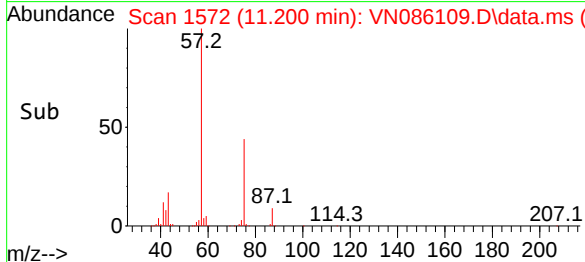
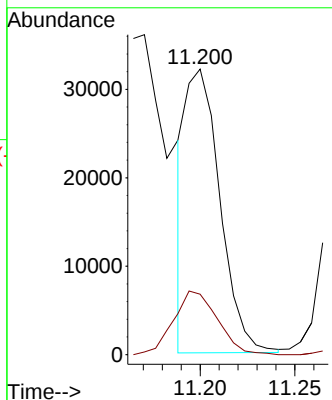
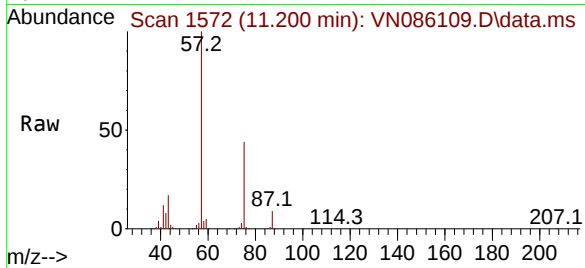




#59
2-Hexanone
Concen: 23.601 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

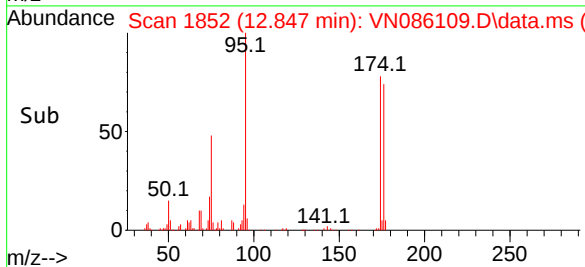
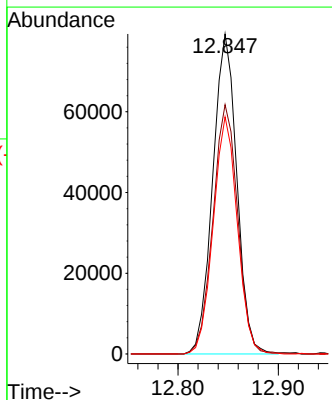
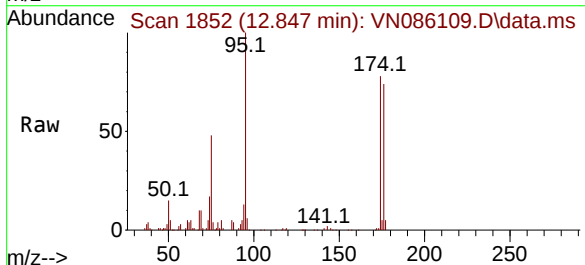
Instrument :
MSVOA_N
ClientSampleId :
TP-4

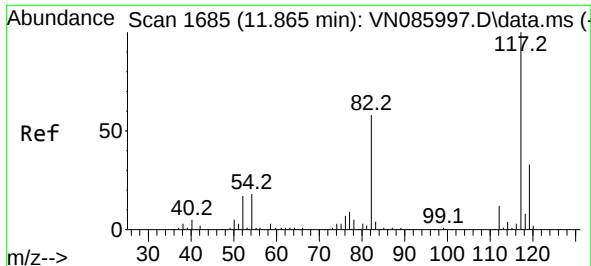
Tgt Ion: 43 Resp: 40429
Ion Ratio Lower Upper
43 100
58 28.7 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 46.047 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion: 95 Resp: 132011
Ion Ratio Lower Upper
95 100
174 80.2 0.0 156.8
176 74.5 0.0 152.2

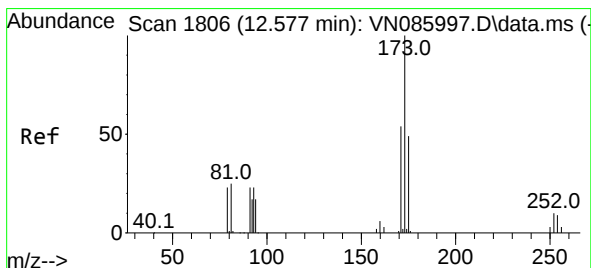
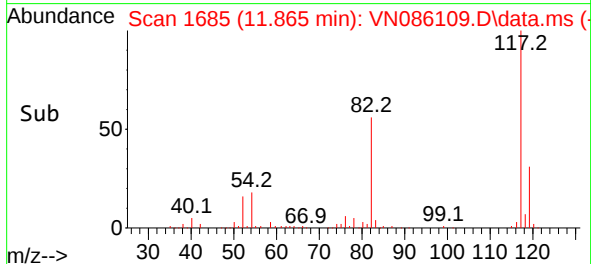
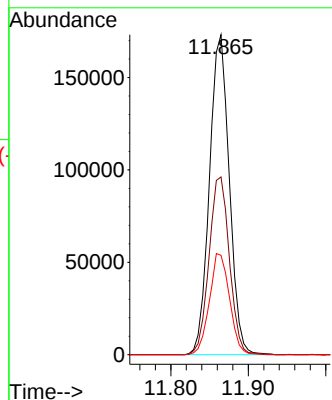
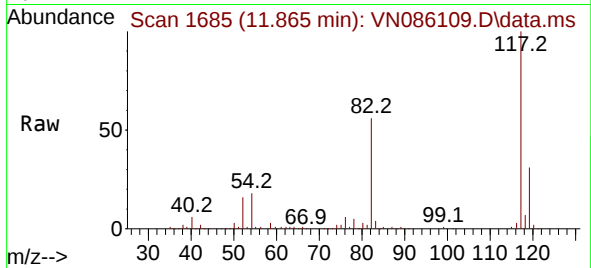




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

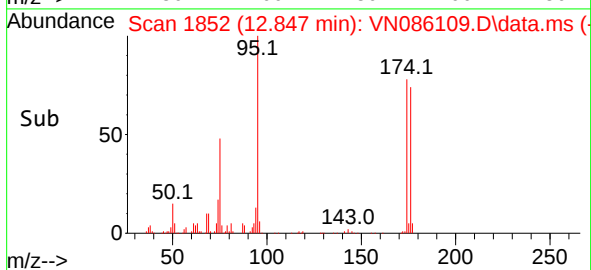
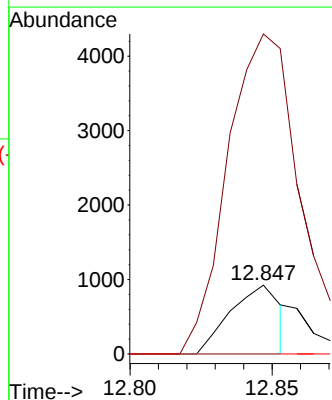
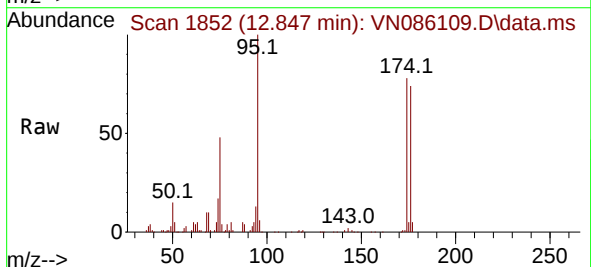
Instrument :
MSVOA_N
ClientSampleId :
TP-4

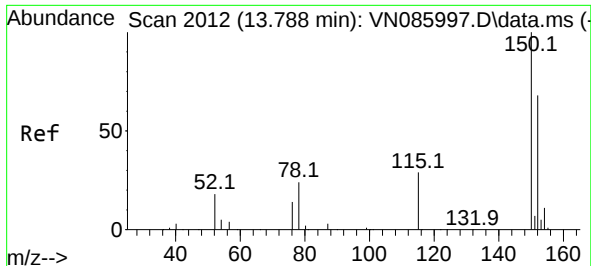
Tgt Ion:117 Resp: 307927
Ion Ratio Lower Upper
117 100
82 55.6 46.7 70.1
119 31.0 26.5 39.7



#71
Bromoform
Concen: 0.517 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086109.D
Acq: 25 Mar 2025 18:40

Tgt Ion:173 Resp: 1131
Ion Ratio Lower Upper
173 100
175 524.1 24.3 73.0#
254 0.0 0.0 0.0

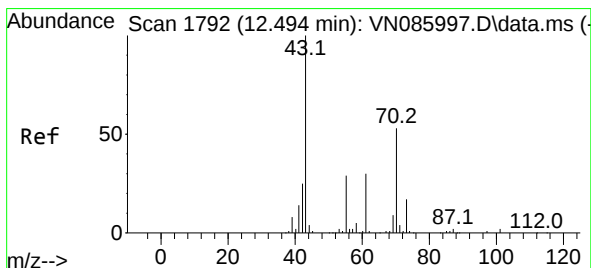
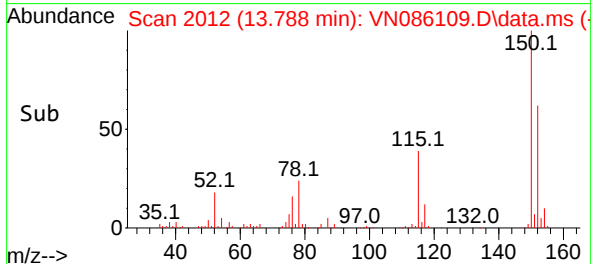
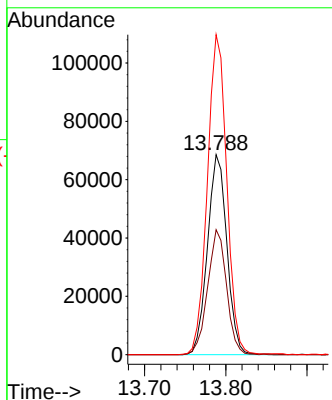
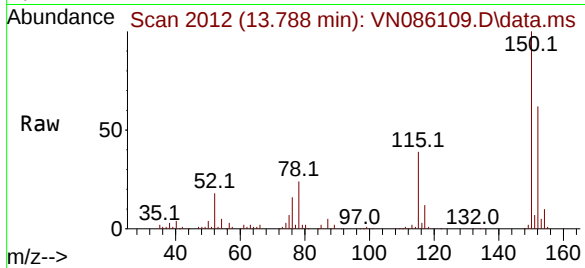




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086109.D
 Acq: 25 Mar 2025 18:40

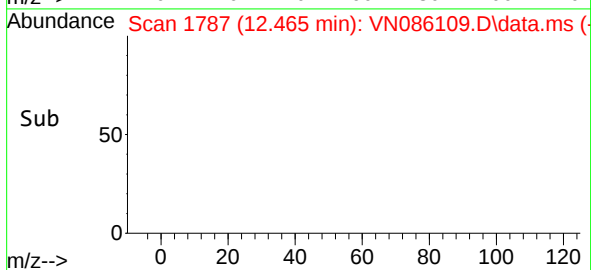
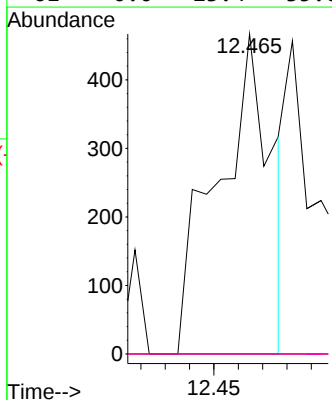
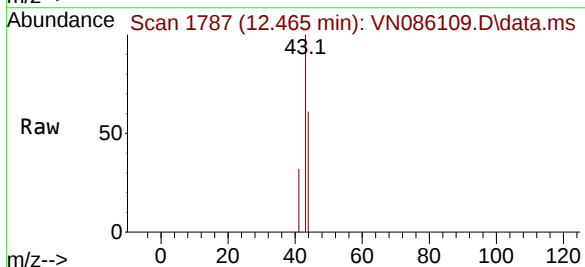
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

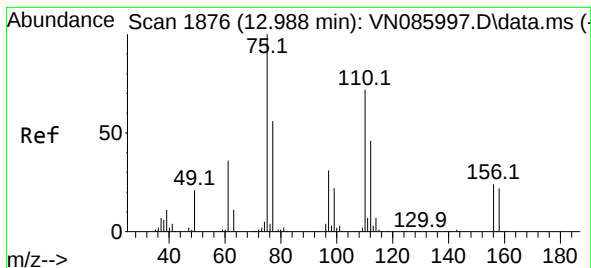
Tgt Ion:152 Resp: 113929
 Ion Ratio Lower Upper
 152 100
 115 60.8 31.1 93.2
 150 159.4 0.0 359.6



#74
 N-ethyl acetate
 Concen: 0.277 ug/l
 RT: 12.465 min Scan# 1787
 Delta R.T. -0.030 min
 Lab File: VN086109.D
 Acq: 25 Mar 2025 18:40

Tgt Ion: 43 Resp: 721
 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: 25.981 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

Instrument :

MSVOA_N

ClientSampleId :

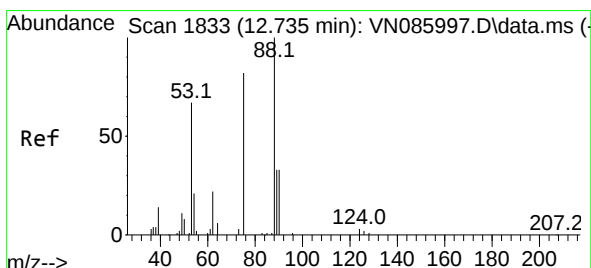
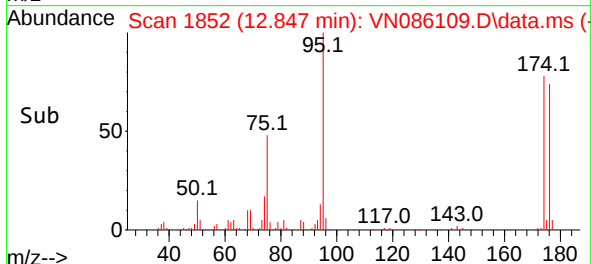
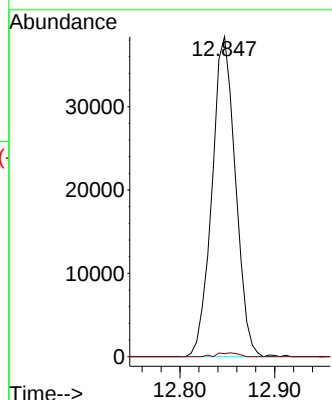
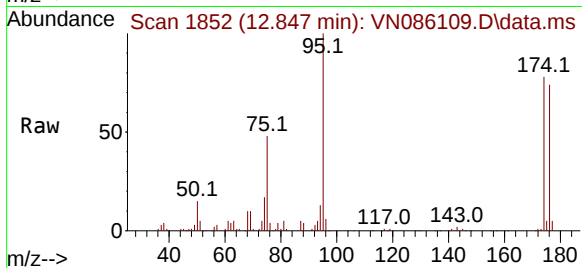
TP-4

Tgt Ion: 75 Resp: 66268

Ion Ratio Lower Upper

75 100

77 1.1 83.7 251.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.689 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086109.D

Acq: 25 Mar 2025 18:40

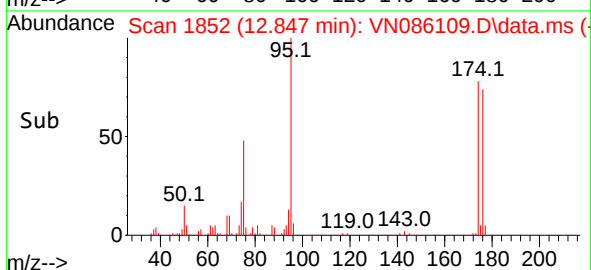
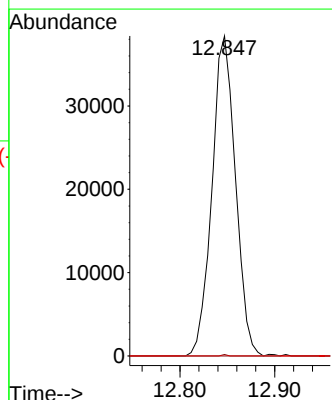
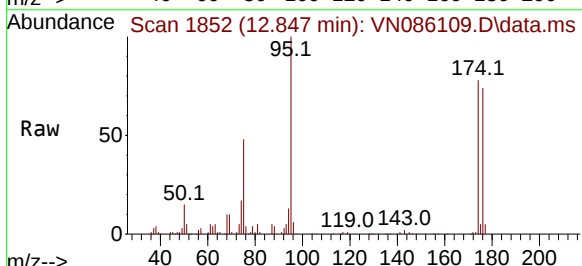
Tgt Ion: 75 Resp: 66268

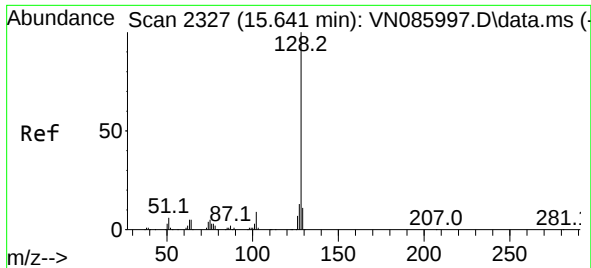
Ion Ratio Lower Upper

75 100

53 0.1 66.0 99.0#

89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 1.915 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086109.D

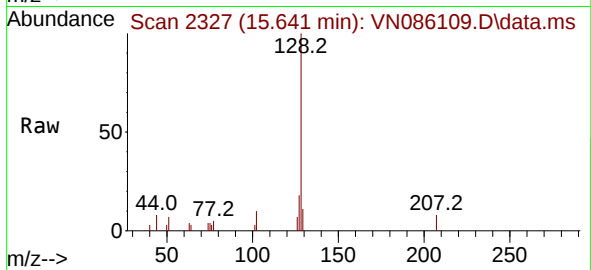
Acq: 25 Mar 2025 18:40

Instrument :

MSVOA_N

ClientSampleId :

TP-4



Tgt Ion:	128	Resp:	10836
Ion	Ratio	Lower	Upper
128	100		
127	17.1	10.2	15.4#
129	11.6	9.0	13.6

