

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087034.D
 Acq On : 16 Jun 2025 16:15
 Operator : JC\MD
 Sample : Q2299-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20250610

Quant Time: Jun 17 07:25:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

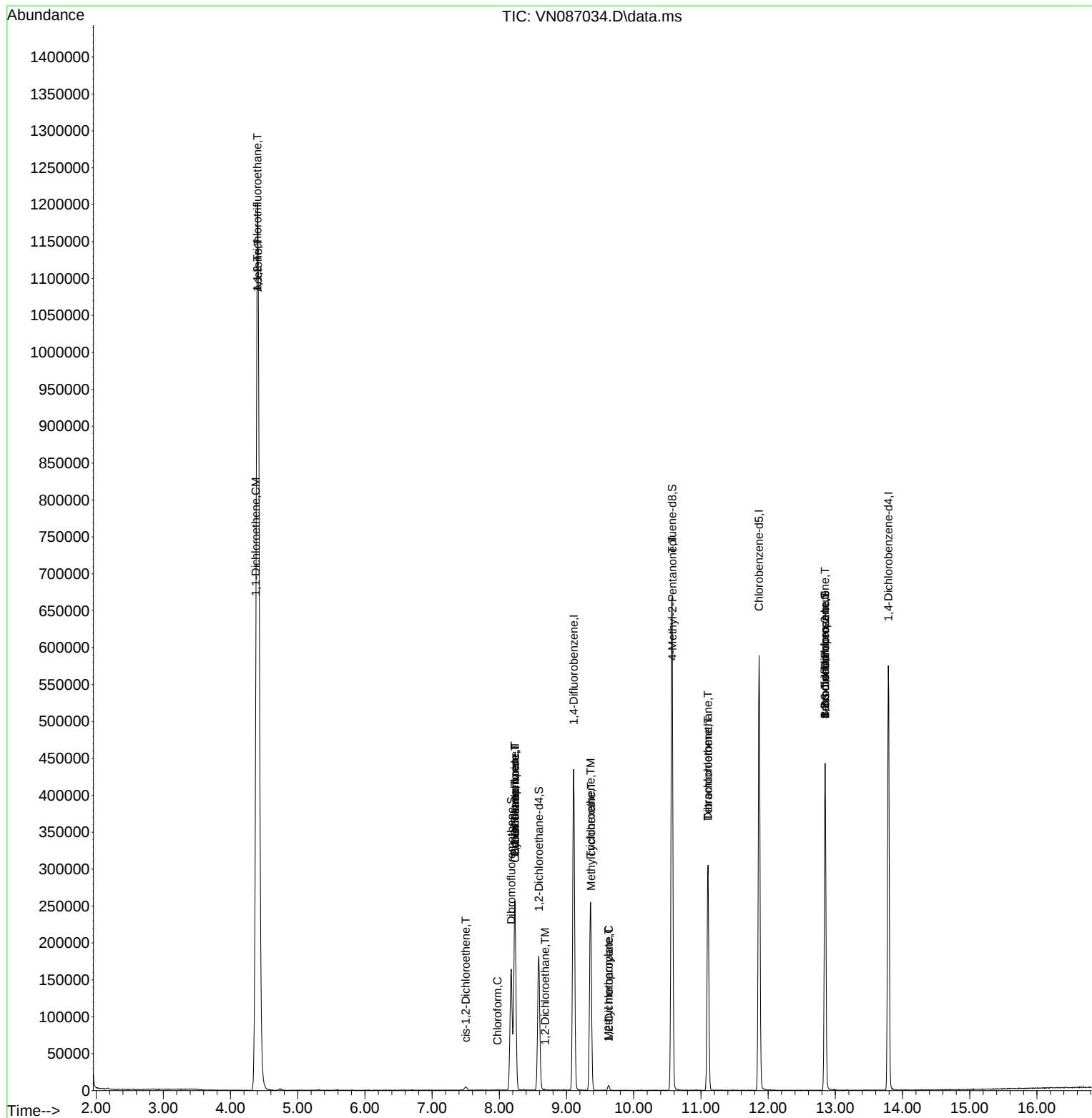
Internal Standards						
1) Pentafluorobenzene	8.230	168	201975	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	409116	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	370070	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	169597	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	149258	55.194	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.380%
35) Dibromofluoromethane	8.177	113	126336	52.108	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.220%
50) Toluene-d8	10.571	98	503264	52.434	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.860%
62) 4-Bromofluorobenzene	12.847	95	175542	49.227	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.460%
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	4.401	101	957277	434.736	ug/l	99
12) 1,1-Dichloroethene	4.377	96	5541	2.465	ug/l	89
16) Acetone	4.406	43	8999	6.275	ug/l #	69
27) cis-1,2-Dichloroethene	7.500	96	3374	1.128	ug/l	84
30) Chloroform	7.971	83	962	0.213	ug/l	84
31) Cyclohexane	8.230	56	3744	0.854	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	15335	4.245	ug/l #	47
38) Carbon Tetrachloride	8.236	117	19570	5.517	ug/l #	17
39) Methylcyclohexane	9.365	83	1149	0.232	ug/l #	1
42) 1,2-Dichloroethane	8.683	62	1091	0.304	ug/l #	72
44) Trichloroethene	9.359	130	100648	35.929	ug/l	99
45) 1,2-Dichloropropane	9.630	63	3258	1.134	ug/l	93
48) Methyl methacrylate	9.624	41	1551	0.457	ug/l #	29
51) 4-Methyl-2-Pentanone	10.577	43	1577	0.355	ug/l #	1
60) Dibromochloromethane	11.106	129	74872	25.868	ug/l #	11
64) Tetrachloroethene	11.106	164	73927	31.565	ug/l	96
71) Bromoform	12.847	173	802	0.413	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	81644	20.252	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	81644	46.619	ug/l #	16

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

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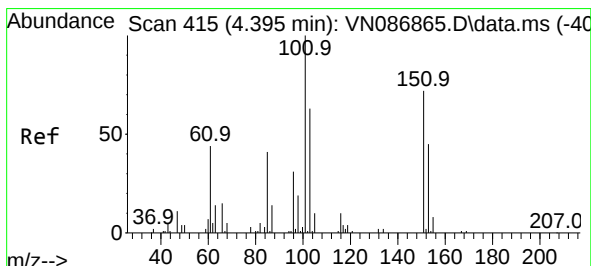
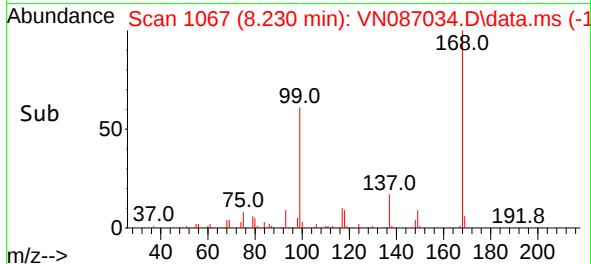
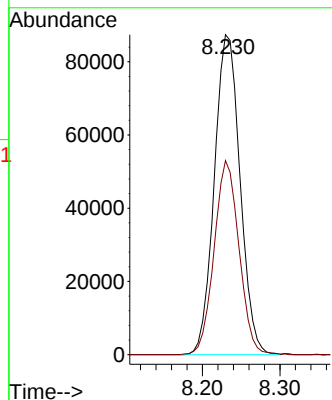
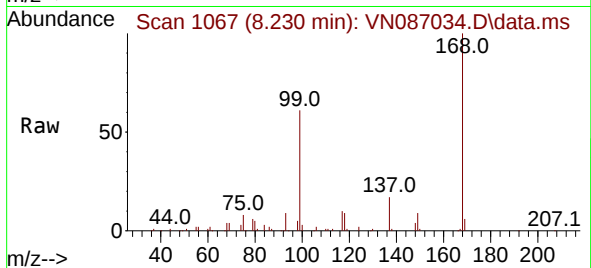




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

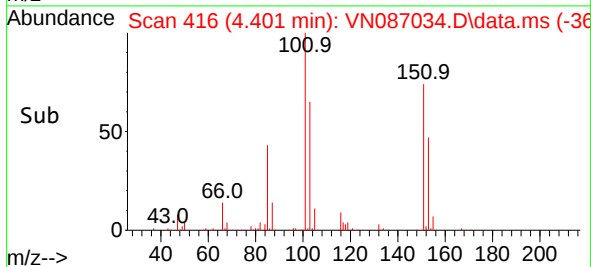
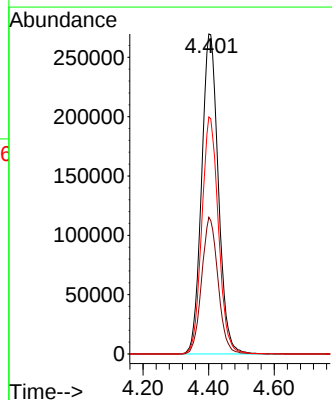
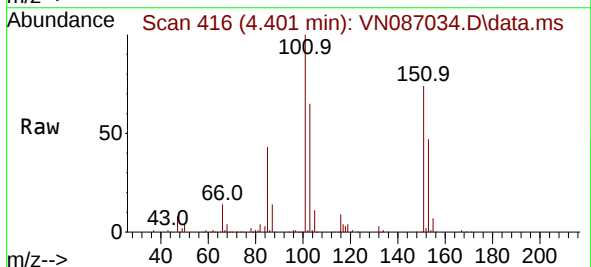
Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20250610

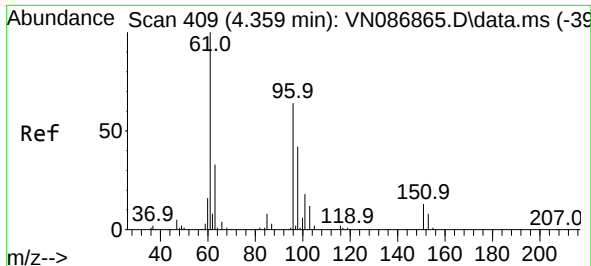
Tgt Ion:168 Resp: 201975
Ion Ratio Lower Upper
168 100
99 60.6 49.1 73.7



#9
1,1,2-Trichlorotrifluoroethane
Concen: 434.736 ug/l
RT: 4.401 min Scan# 416
Delta R.T. 0.006 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

Tgt Ion:101 Resp: 957277
Ion Ratio Lower Upper
101 100
85 41.9 33.8 50.8
151 73.7 58.7 88.1

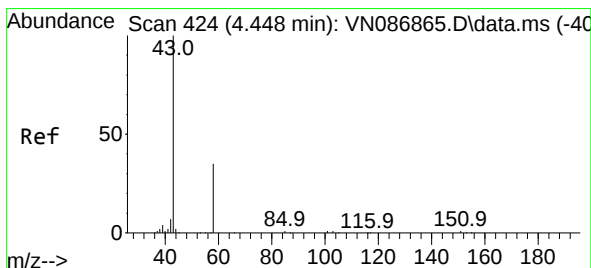
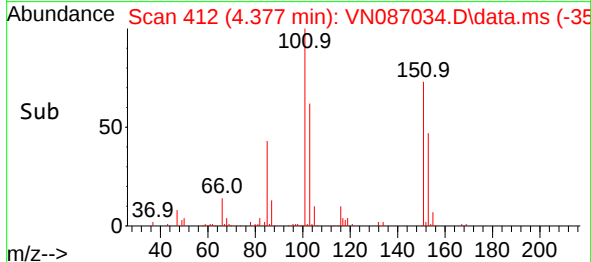
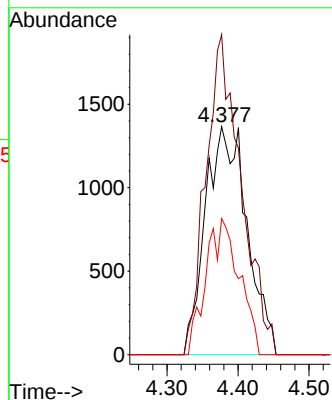
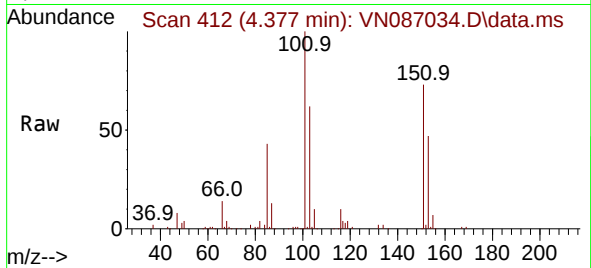




#12
 1,1-Dichloroethene
 Concen: 2.465 ug/l
 RT: 4.377 min Scan# 412
 Delta R.T. 0.018 min
 Lab File: VN087034.D
 Acq: 16 Jun 2025 16:15

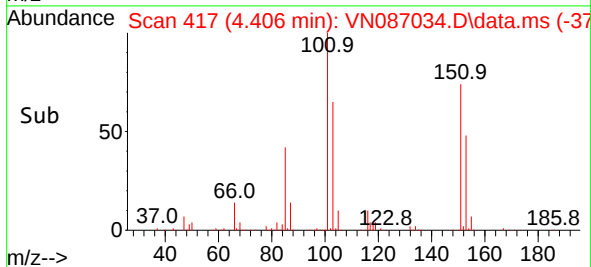
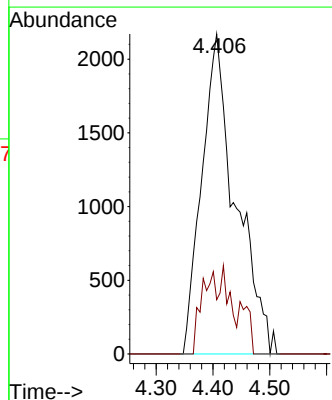
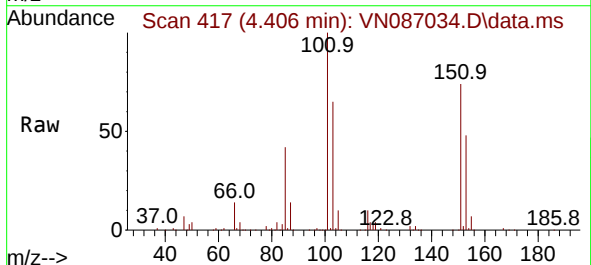
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20250610

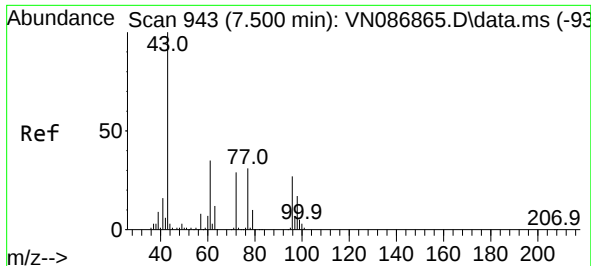
Tgt Ion:	96	Resp:	5541
Ion	Ratio	Lower	Upper
96	100		
61	140.3	125.8	188.6
98	59.7	52.5	78.7



#16
 Acetone
 Concen: 6.275 ug/l
 RT: 4.406 min Scan# 417
 Delta R.T. -0.041 min
 Lab File: VN087034.D
 Acq: 16 Jun 2025 16:15

Tgt Ion:	43	Resp:	8999
Ion	Ratio	Lower	Upper
43	100		
58	17.0	28.0	42.0#





#27

cis-1,2-Dichloroethene

Concen: 1.128 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.000 min

Lab File: VN087034.D

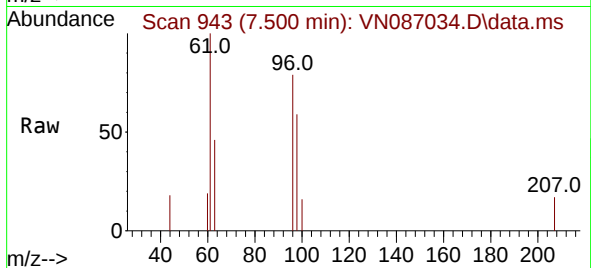
Acq: 16 Jun 2025 16:15

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20250610



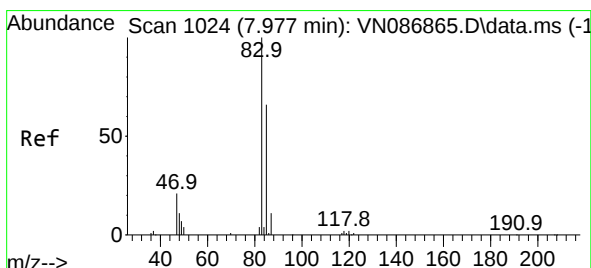
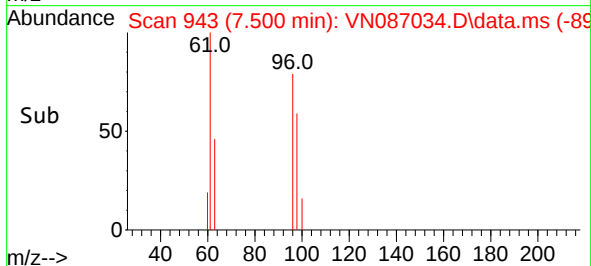
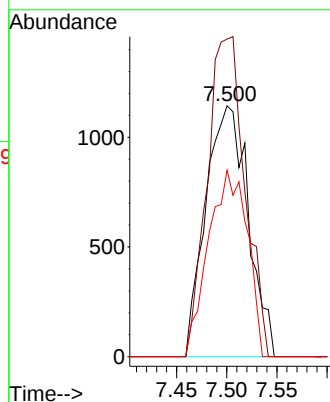
Tgt Ion: 96 Resp: 3374

Ion Ratio Lower Upper

96 100

61 113.2 0.0 278.0

98 67.8 0.0 128.2



#30

Chloroform

Concen: 0.213 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. -0.006 min

Lab File: VN087034.D

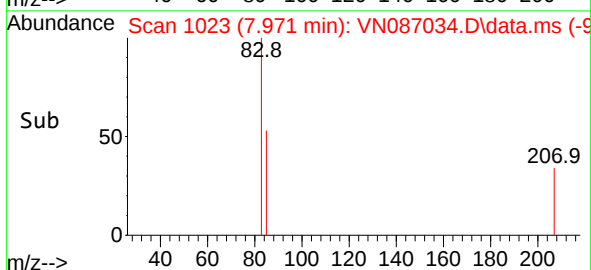
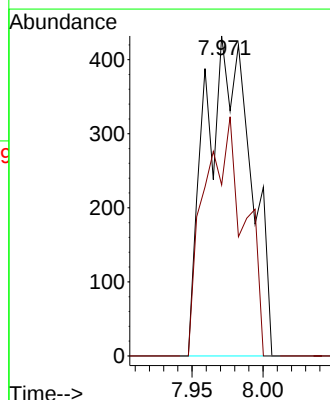
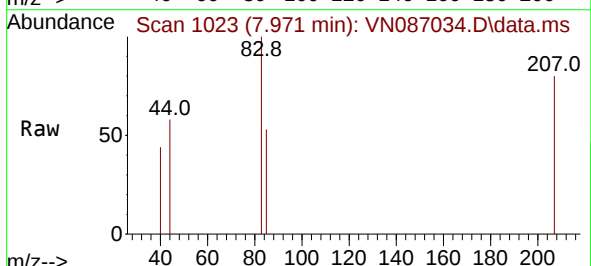
Acq: 16 Jun 2025 16:15

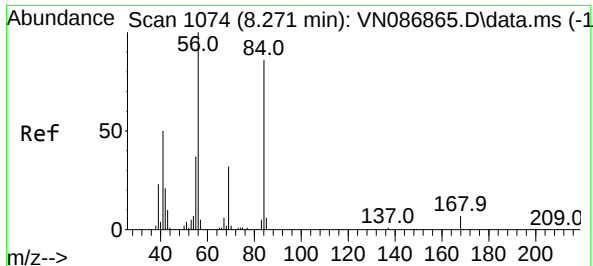
Tgt Ion: 83 Resp: 962

Ion Ratio Lower Upper

83 100

85 53.5 52.9 79.3

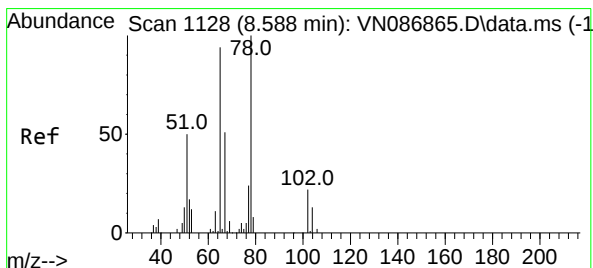
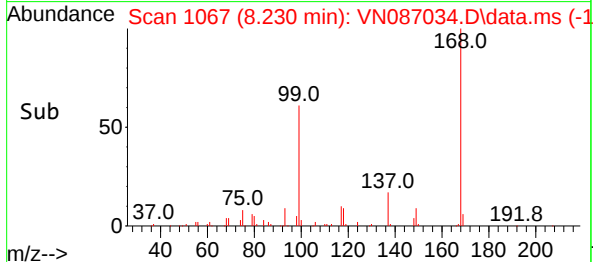
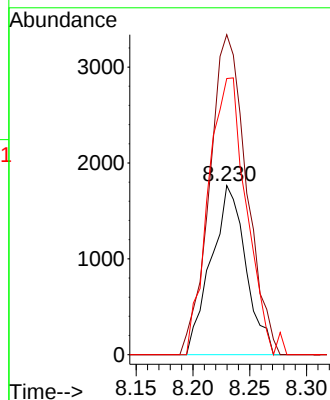
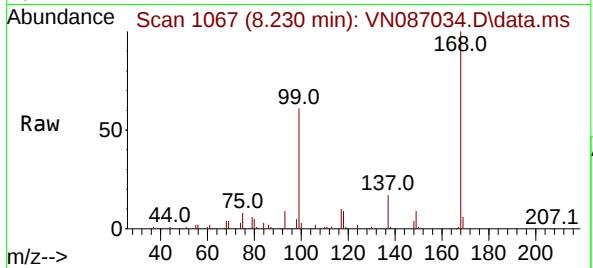




#31
Cyclohexane
Concen: 0.854 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

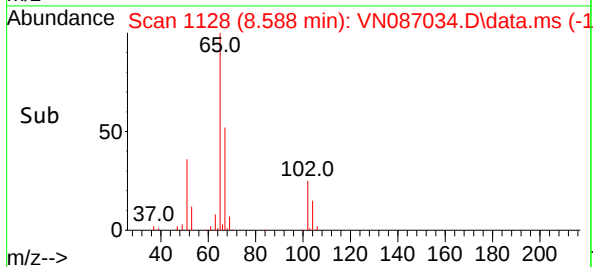
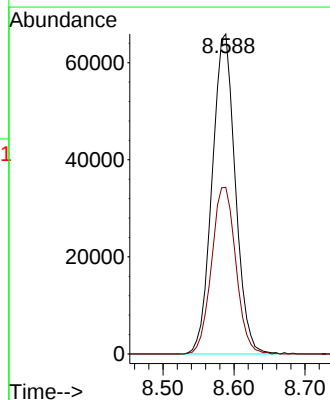
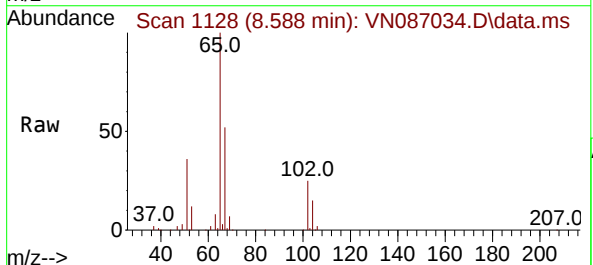
Instrument :
MSVOA_N
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RE134D4-20250610

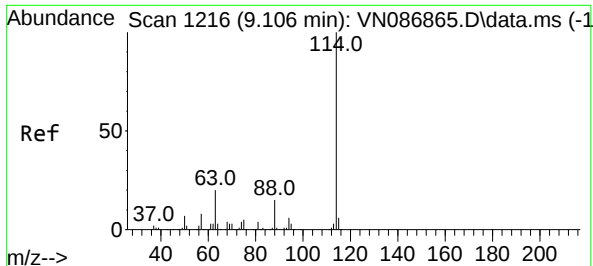
Tgt Ion: 56 Resp: 3744
Ion Ratio Lower Upper
56 100
69 189.1 25.4 38.0#
84 163.2 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 55.194 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

Tgt Ion: 65 Resp: 149258
Ion Ratio Lower Upper
65 100
67 54.5 0.0 105.6

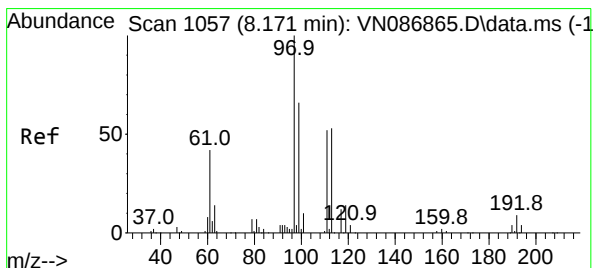
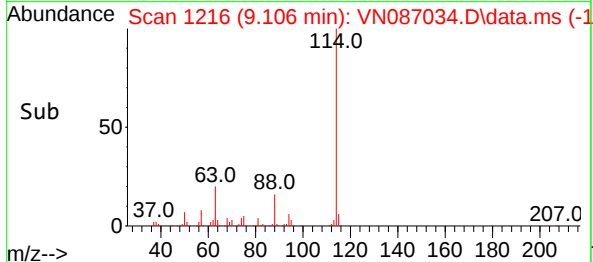
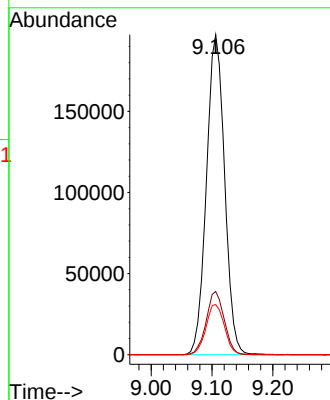
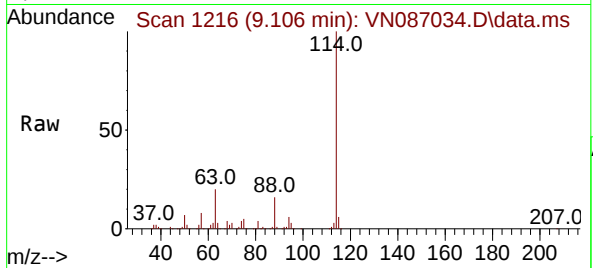




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

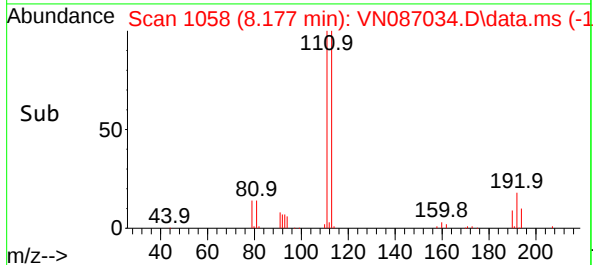
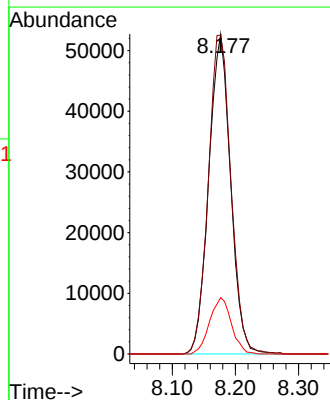
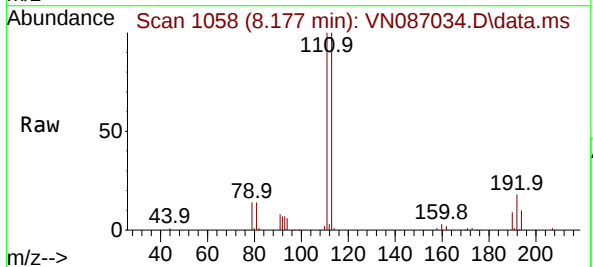
Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20250610

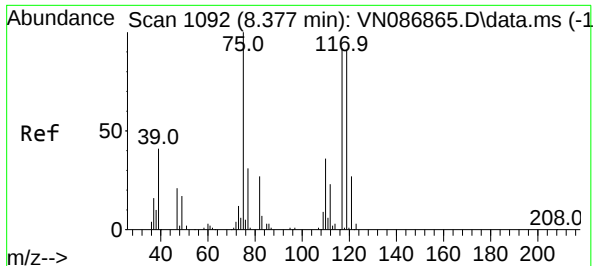
Tgt Ion:	114	Resp:	409116
Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	39.6
88	15.6	0.0	30.2



#35
Dibromofluoromethane
Concen: 52.108 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

Tgt Ion:	113	Resp:	126336
Ion	Ratio	Lower	Upper
113	100		
111	103.6	84.2	126.2
192	17.6	14.2	21.4





#36

1,1-Dichloropropene

Concen: 4.245 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087034.D

Acq: 16 Jun 2025 16:15

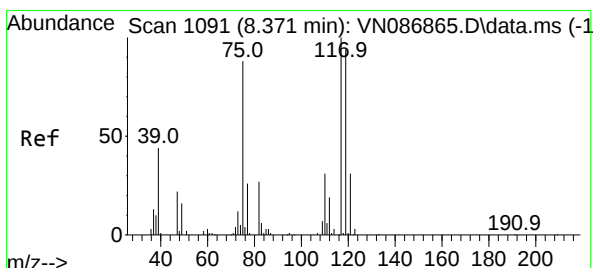
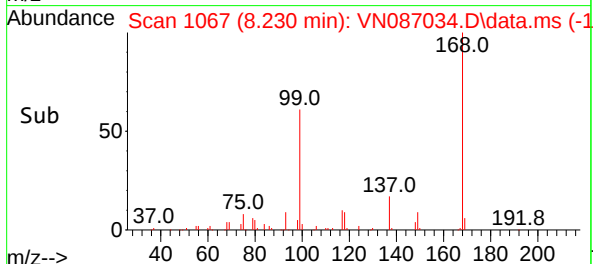
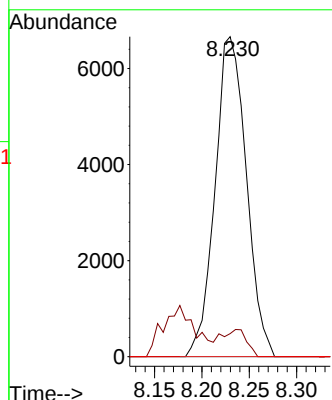
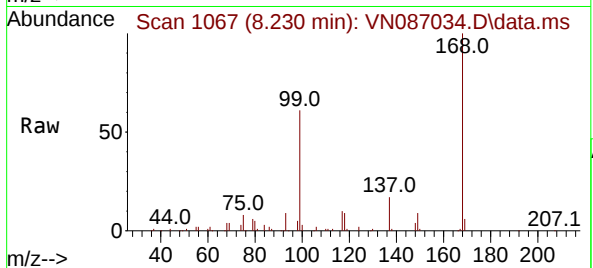
Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20250610

Tgt Ion:	75	Resp:	15335
Ion	Ratio	Lower	Upper
75	100		
110	6.8	17.6	52.9#
77	0.0	25.3	37.9#



#38

Carbon Tetrachloride

Concen: 5.517 ug/l

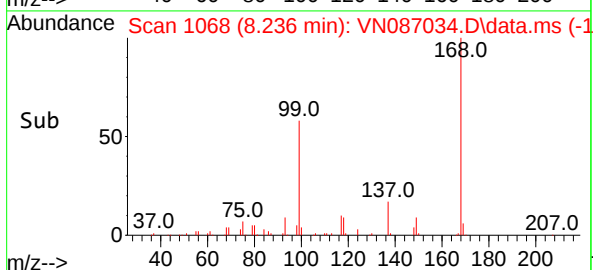
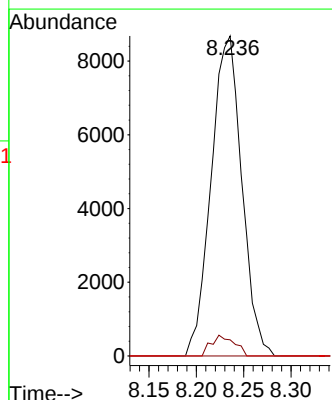
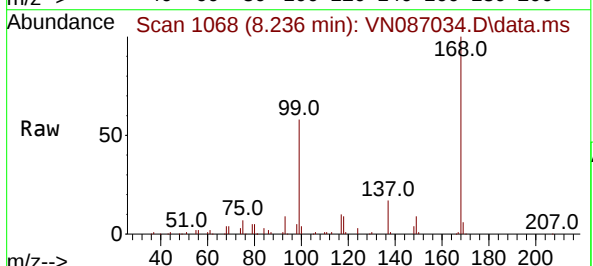
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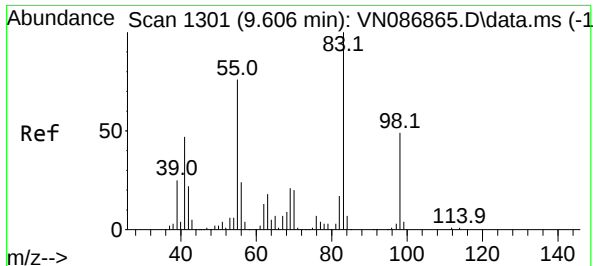
Delta R.T. -0.135 min

Lab File: VN087034.D

Acq: 16 Jun 2025 16:15

Tgt Ion:	117	Resp:	19570
Ion	Ratio	Lower	Upper
117	100		
119	5.1	75.0	112.6#
121	0.0	24.9	37.3#





#39

Methylcyclohexane

Concen: 0.232 ug/l

RT: 9.365 min Scan# 1149

Delta R.T. -0.241 min

Lab File: VN087034.D

Acq: 16 Jun 2025 16:15

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20250610

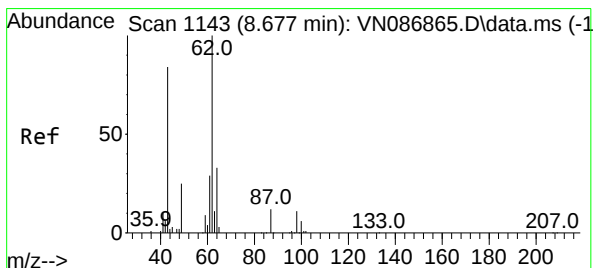
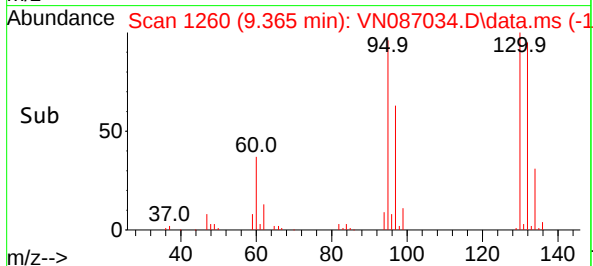
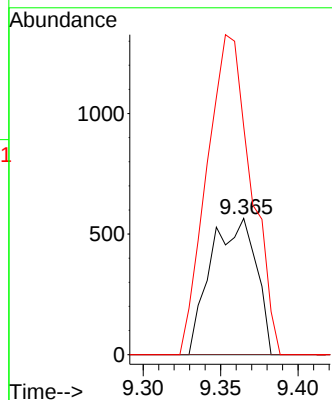
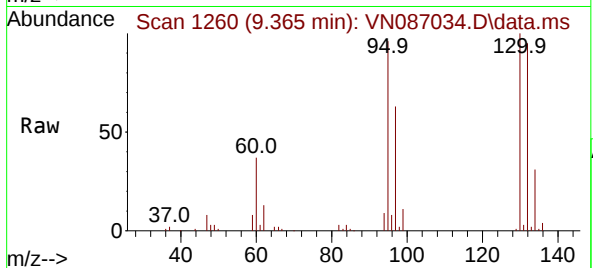
Tgt Ion: 83 Resp: 1149

Ion Ratio Lower Upper

83 100

55 0.0 61.0 91.6#

98 167.4 38.9 58.3#



#42

1,2-Dichloroethane

Concen: 0.304 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN087034.D

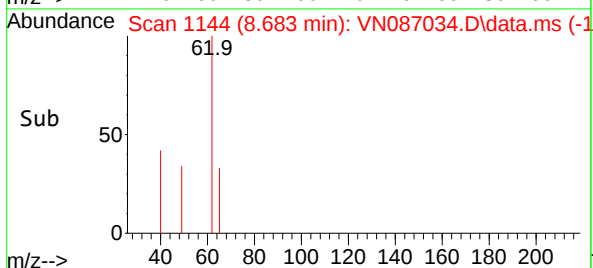
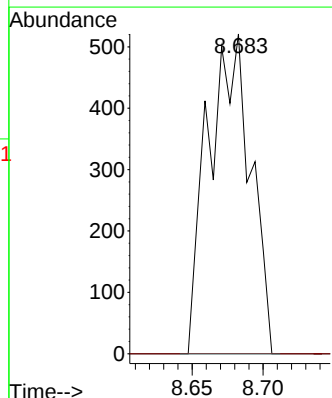
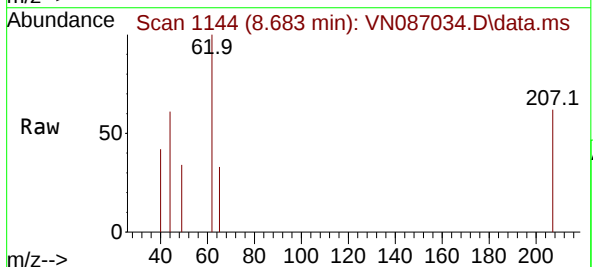
Acq: 16 Jun 2025 16:15

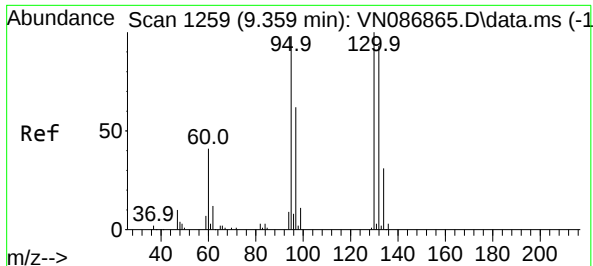
Tgt Ion: 62 Resp: 1091

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.2

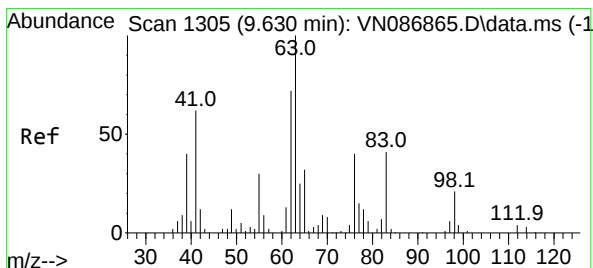
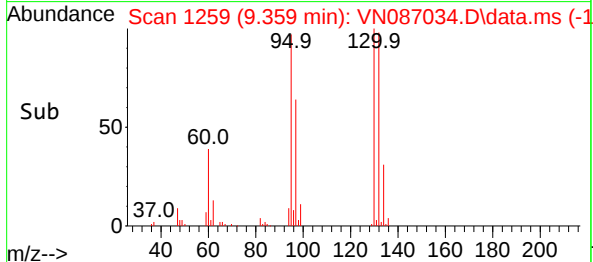
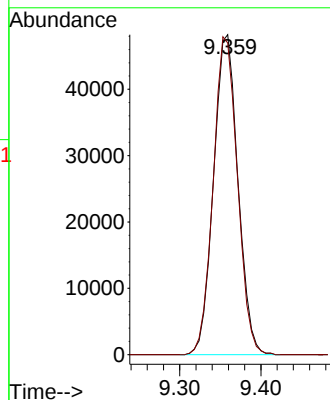
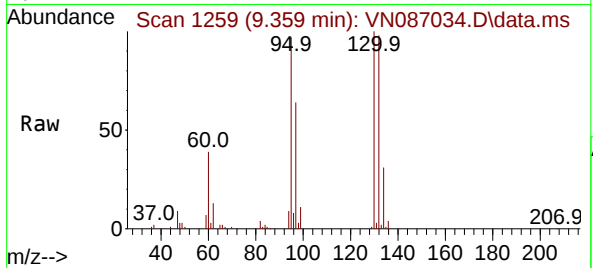




#44
Trichloroethene
Concen: 35.929 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

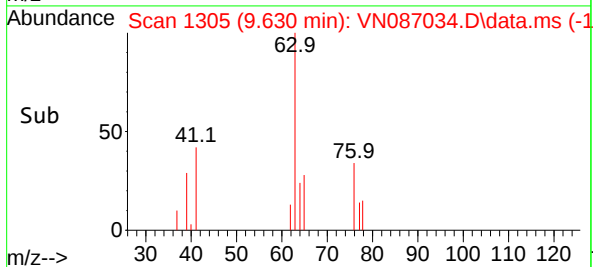
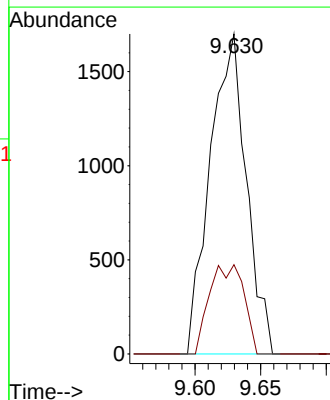
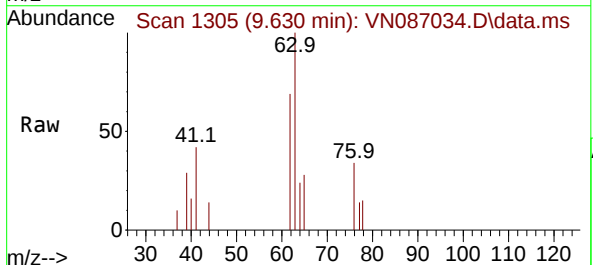
Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20250610

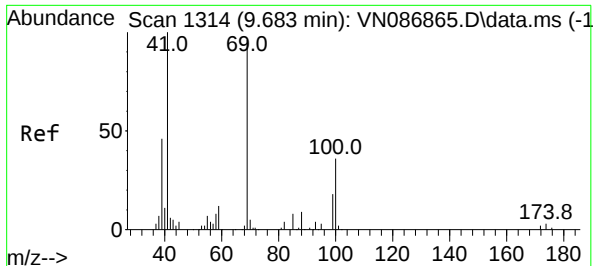
Tgt Ion:130 Resp: 100648
Ion Ratio Lower Upper
130 100
95 97.4 0.0 196.2



#45
1,2-Dichloropropane
Concen: 1.134 ug/l
RT: 9.630 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

Tgt Ion: 63 Resp: 3258
Ion Ratio Lower Upper
63 100
65 27.9 25.5 38.3





#48

Methyl methacrylate

Concen: 0.457 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.059 min

Lab File: VN087034.D

Acq: 16 Jun 2025 16:15

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20250610

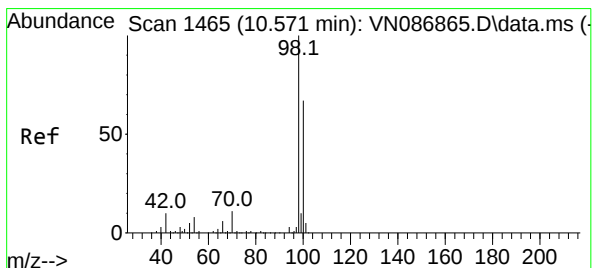
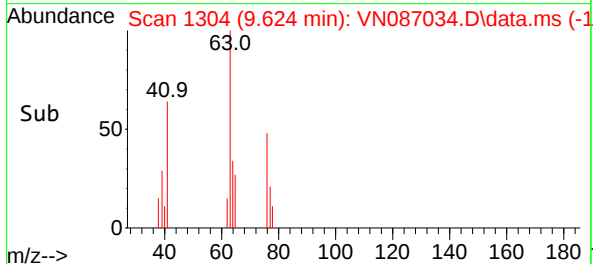
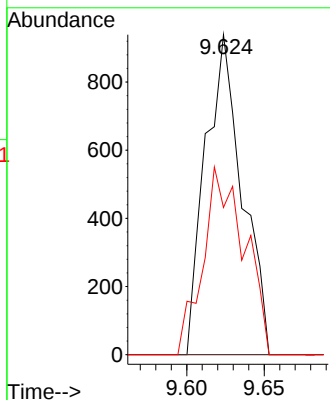
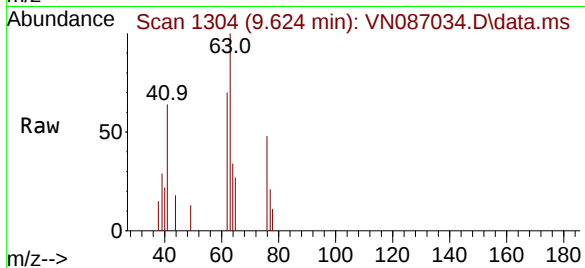
Tgt Ion: 41 Resp: 1551

Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 65.8 40.2 60.4#



#50

Toluene-d8

Concen: 52.434 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN087034.D

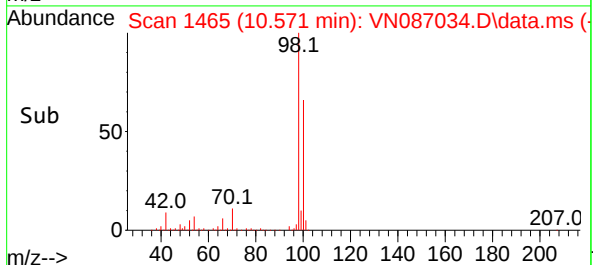
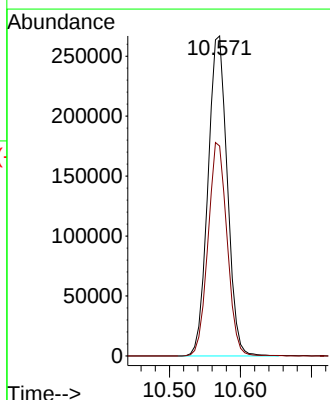
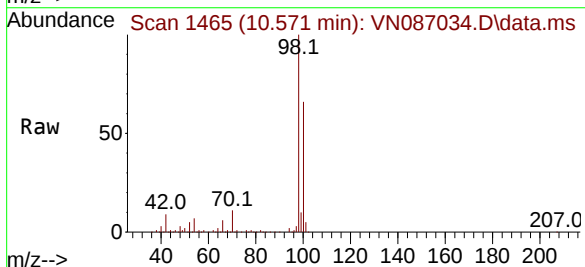
Acq: 16 Jun 2025 16:15

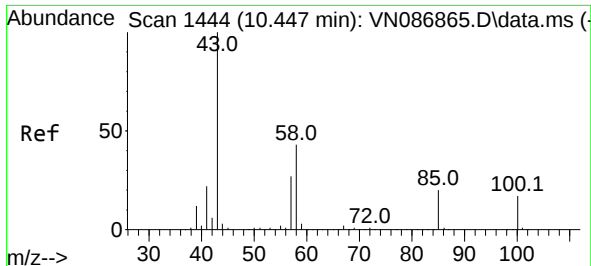
Tgt Ion: 98 Resp: 503264

Ion Ratio Lower Upper

98 100

100 65.8 53.4 80.0

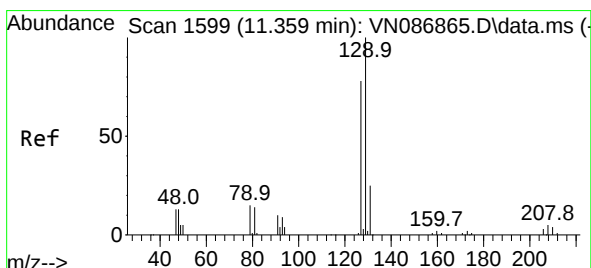
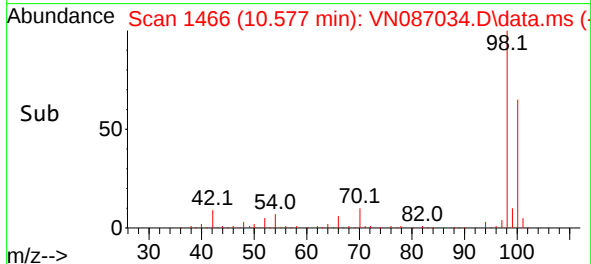
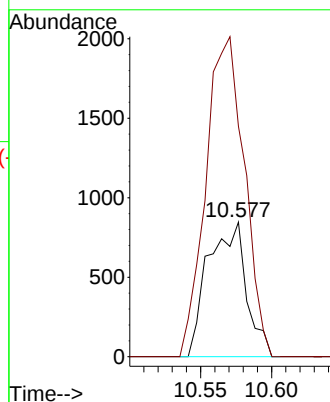
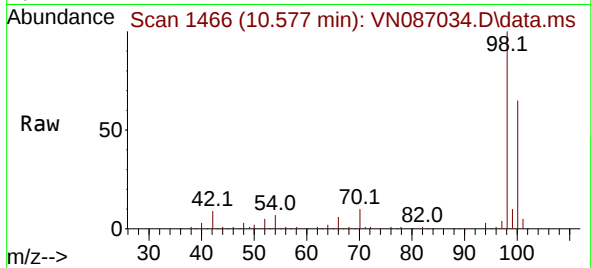




#51
4-Methyl-2-Pentanone
Concen: 0.355 ug/l
RT: 10.577 min Scan# 14
Delta R.T. 0.129 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

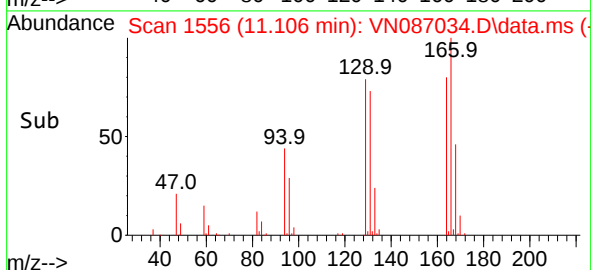
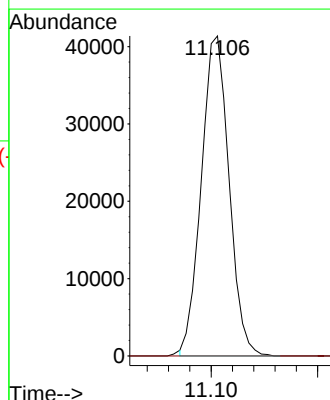
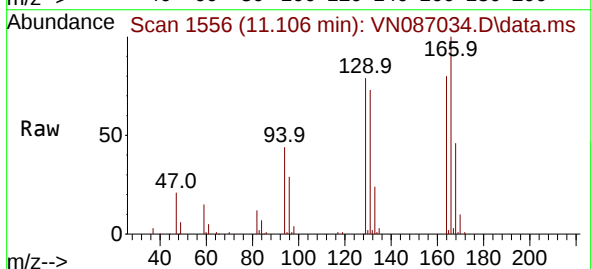
Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20250610

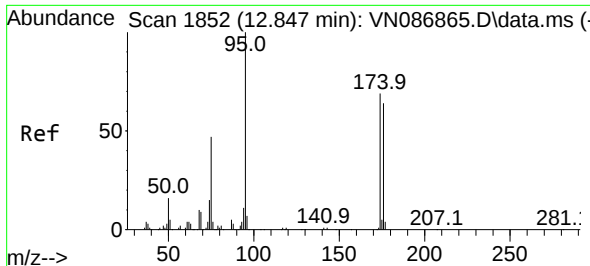
Tgt Ion: 43 Resp: 1577
Ion Ratio Lower Upper
43 100
58 240.8 34.2 51.4#



#60
Dibromochloromethane
Concen: 25.868 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

Tgt Ion: 129 Resp: 74872
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

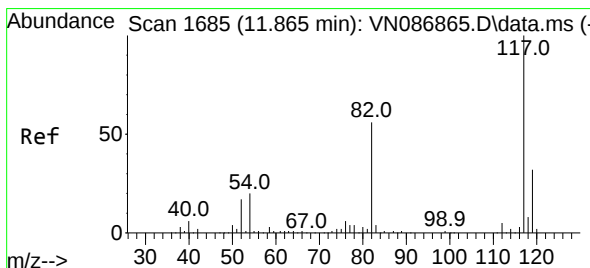
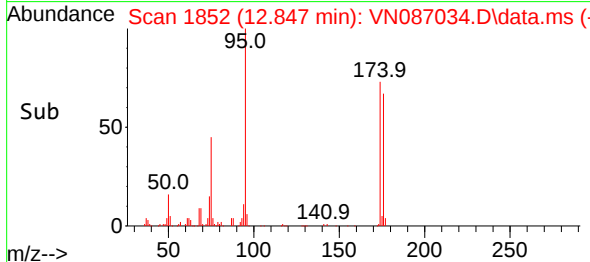
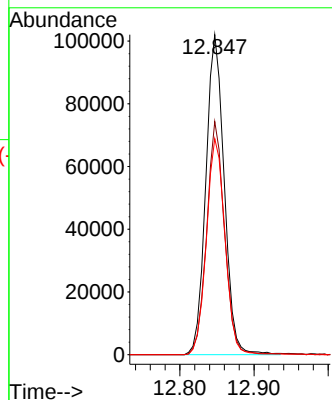
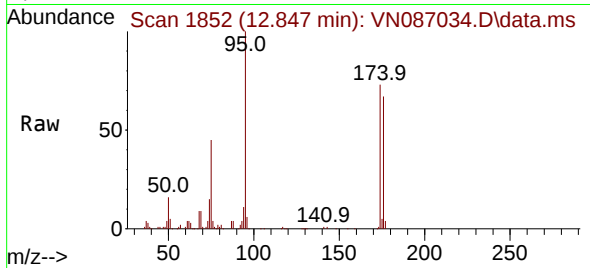




#62
4-Bromofluorobenzene
Concen: 49.227 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

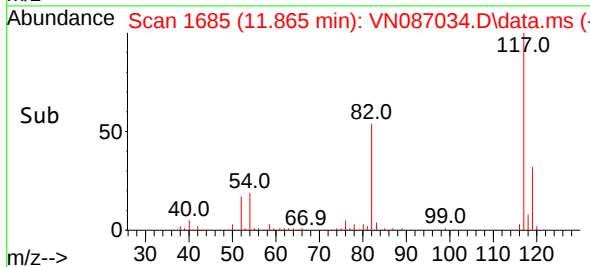
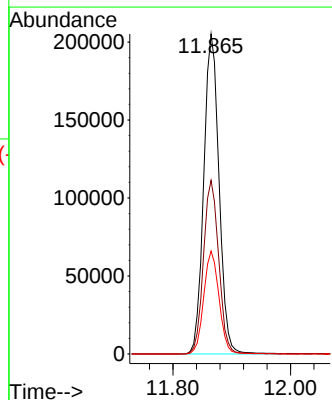
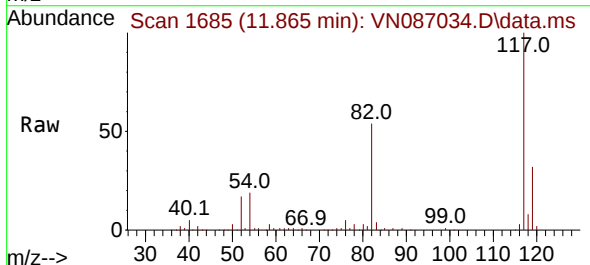
Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20250610

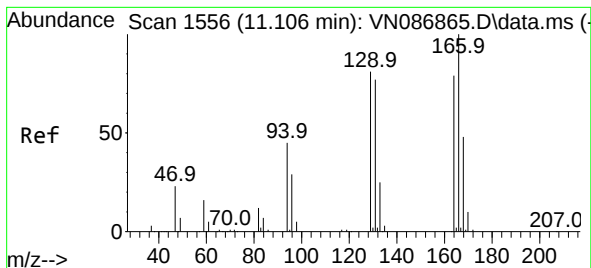
Tgt Ion: 95 Resp: 175542
Ion Ratio Lower Upper
95 100
174 70.7 0.0 141.8
176 68.5 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087034.D
Acq: 16 Jun 2025 16:15

Tgt Ion: 117 Resp: 370070
Ion Ratio Lower Upper
117 100
82 54.2 44.6 67.0
119 32.1 25.5 38.3





#64

Tetrachloroethene

Concen: 31.565 ug/l

RT: 11.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087034.D

Acq: 16 Jun 2025 16:15

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20250610

Tgt Ion:164 Resp: 73927

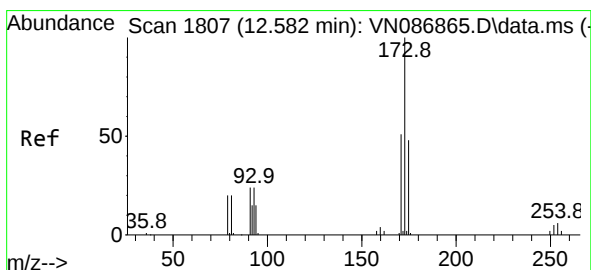
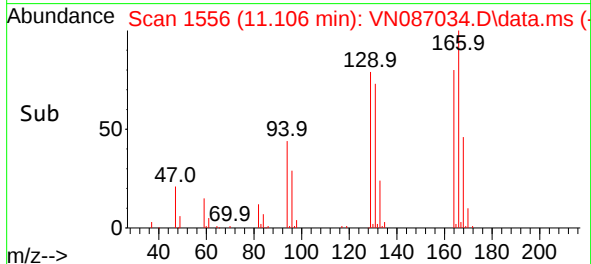
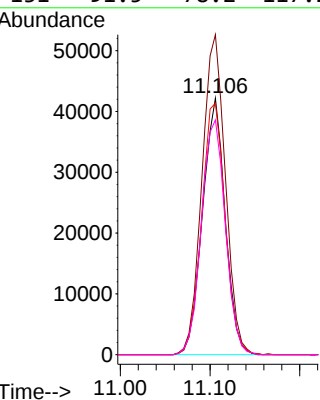
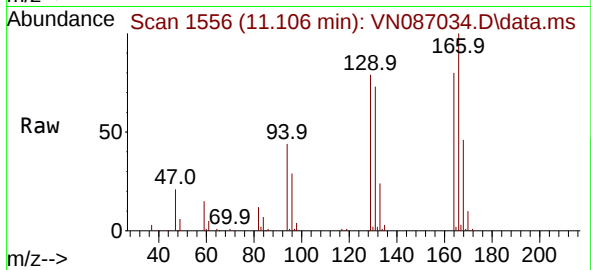
Ion Ratio Lower Upper

164 100

166 124.7 101.8 152.8

129 98.1 83.0 124.4

131 91.5 78.2 117.2



#71

Bromoform

Concen: 0.413 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN087034.D

Acq: 16 Jun 2025 16:15

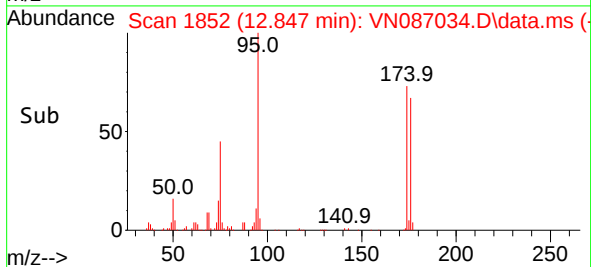
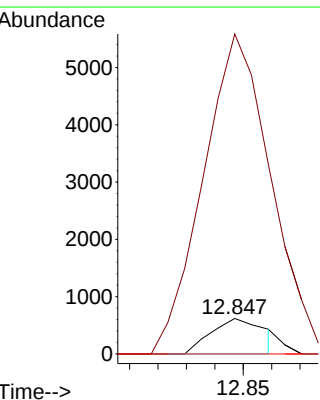
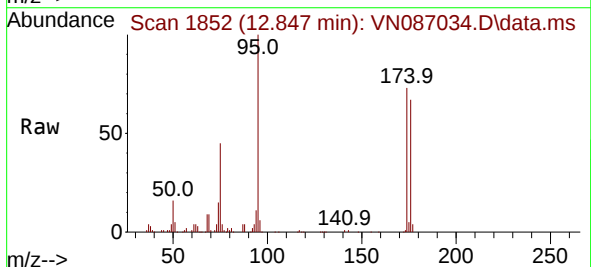
Tgt Ion:173 Resp: 802

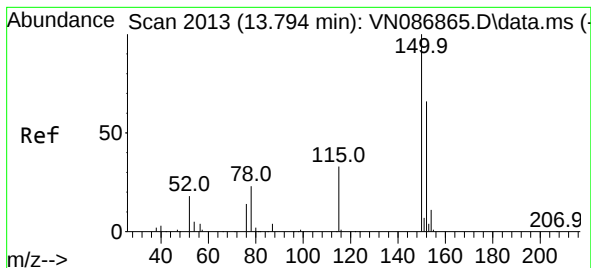
Ion Ratio Lower Upper

173 100

175 1020.8 24.1 72.4#

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. -0.006 min

Lab File: VN087034.D

Acq: 16 Jun 2025 16:15

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20250610

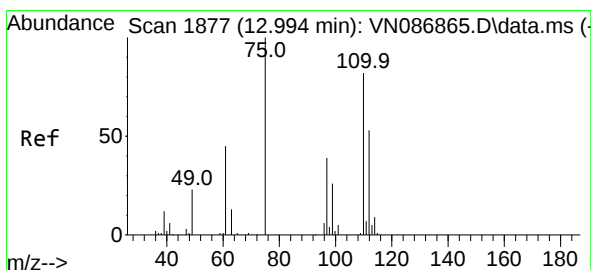
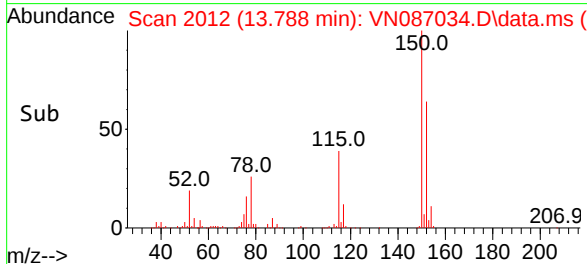
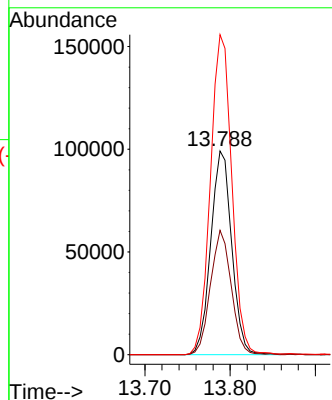
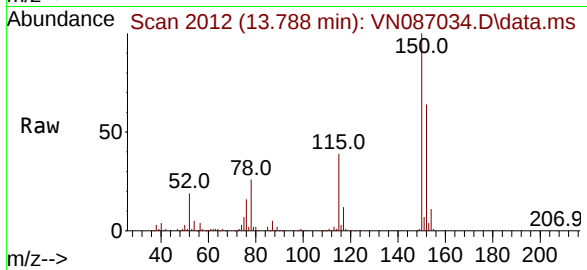
Tgt Ion:152 Resp: 169597

Ion Ratio Lower Upper

152 100

115 60.3 30.1 90.5

150 160.1 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 20.252 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087034.D

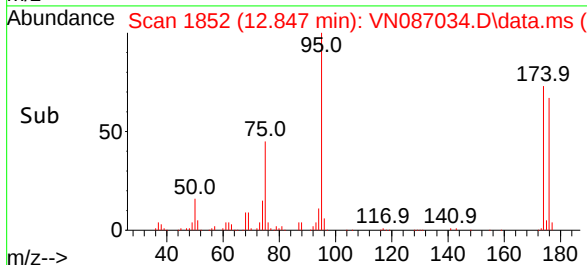
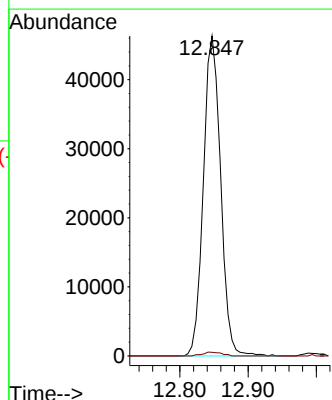
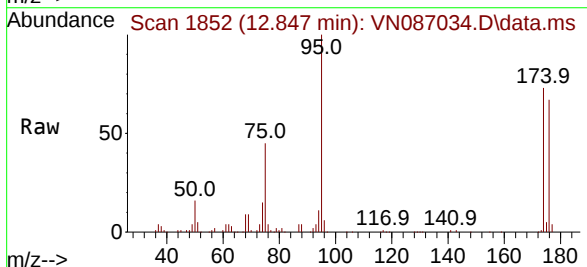
Acq: 16 Jun 2025 16:15

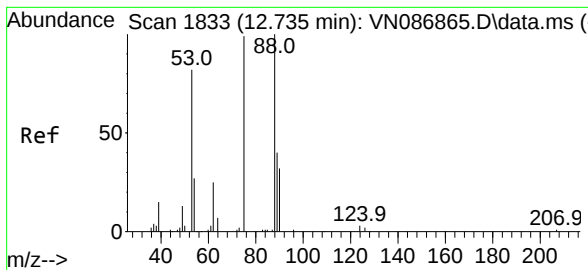
Tgt Ion: 75 Resp: 81644

Ion Ratio Lower Upper

75 100

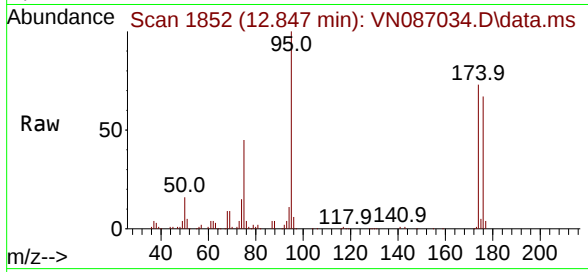
77 1.3 79.3 237.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 46.619 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087034.D
 Acq: 16 Jun 2025 16:15

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20250610



Tgt Ion: 75 Resp: 81644
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.6 99.8#
 89 0.0 36.7 55.1#

