

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
 Data File : VN087049.D
 Acq On : 17 Jun 2025 11:16
 Operator : JC\MD
 Sample : Q2307-02ME
 Misc : 1.08g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LINDEN-SAA-WATER

Quant Time: Jun 18 01:44:16 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)

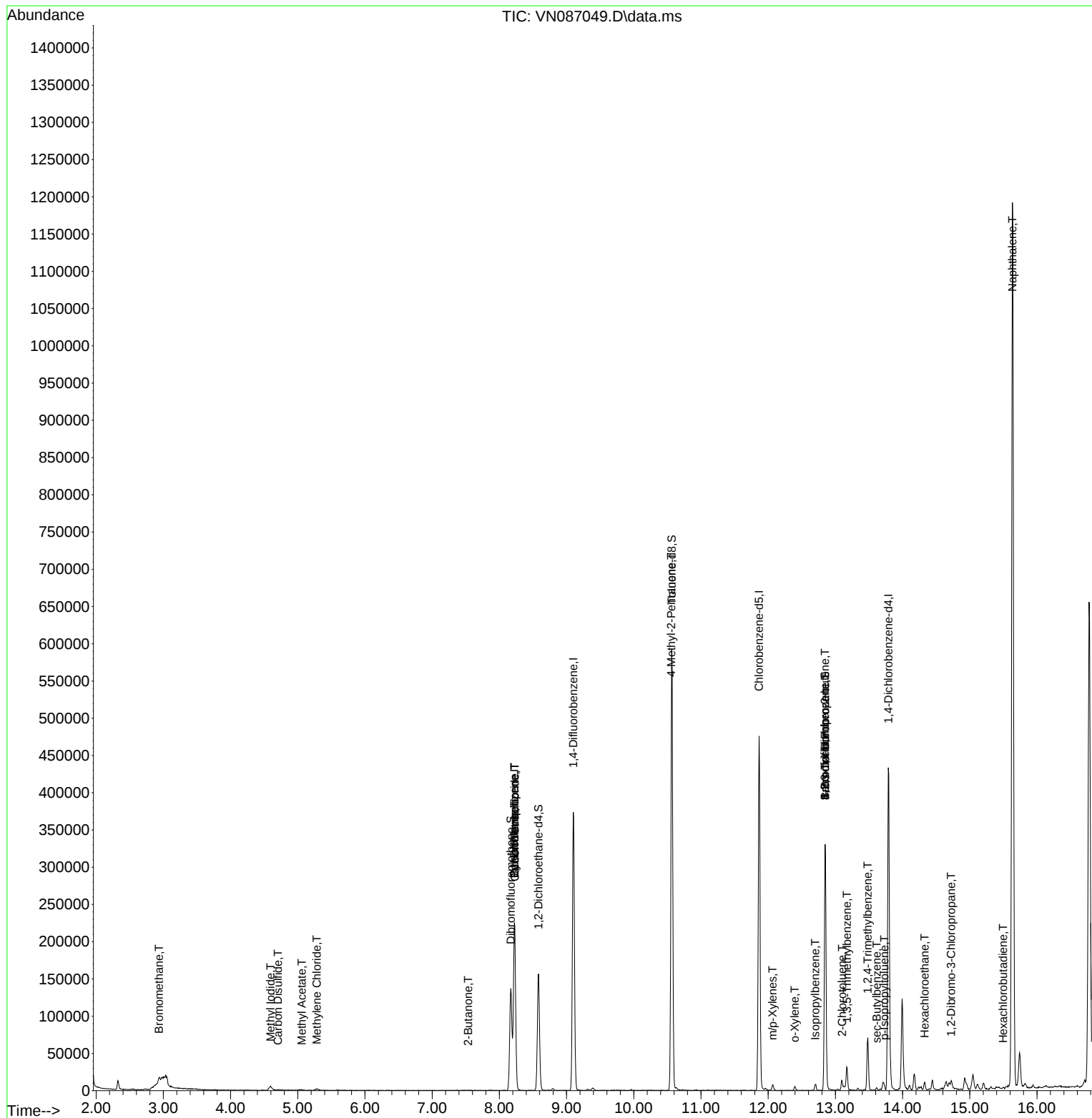
Internal Standards						
1) Pentafluorobenzene	8.224	168	177749	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	9.100	114	353507	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297972	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130416	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	127233	53.462	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.920%			
35) Dibromofluoromethane	8.171	113	107782	51.448	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.900%			
50) Toluene-d8	10.565	98	432778	52.183	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.360%			
62) 4-Bromofluorobenzene	12.847	95	135658	44.027	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.060%			
Target Compounds					Qvalue	
5) Bromomethane	2.936	94	2679	2.028	ug/l	93
10) Methyl Iodide	4.595	142	11350	4.518	ug/l	91
17) Carbon Disulfide	4.706	76	1132	0.207	ug/l #	75
18) Methyl Acetate	5.059	43	1717	0.467	ug/l #	66
20) Methylene Chloride	5.283	84	1530	0.648	ug/l #	81
25) 2-Butanone	7.536	43	533	0.260	ug/l #	46
31) Cyclohexane	8.224	56	3461	0.897	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12880	4.126	ug/l #	49
38) Carbon Tetrachloride	8.230	117	17454	5.695	ug/l #	17
51) 4-Methyl-2-Pentanone	10.559	43	1514	0.394	ug/l #	1
68) m/p-Xylenes	12.065	106	2554	0.589	ug/l	75
69) o-Xylene	12.394	106	1615	0.389	ug/l	94
71) Bromoform	12.847	173	812	0.519	ug/l #	1
73) Isopropylbenzene	12.700	105	2016	0.212	ug/l	88
76) 1,2,3-Trichloropropane	12.847	75	61407	19.808	ug/l #	1
79) 2-Chlorotoluene	13.100	91	1392	0.201	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.171	105	18031	2.299	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.847	75	61407	45.598	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.482	105	41546	5.282	ug/l	99
85) sec-Butylbenzene	13.618	105	2890	0.277	ug/l	94
86) p-Isopropyltoluene	13.729	119	2945	0.342	ug/l	90
90) Hexachloroethane	14.329	117	1000	0.684	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.723	75	182	0.236	ug/l #	2
94) Hexachlorobutadiene	15.494	225	367	0.375	ug/l #	52
95) Naphthalene	15.635	128	1174087	119.936	ug/l	100

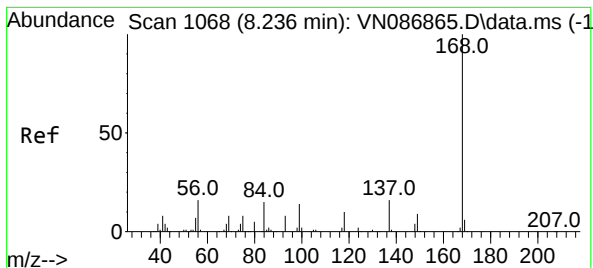
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

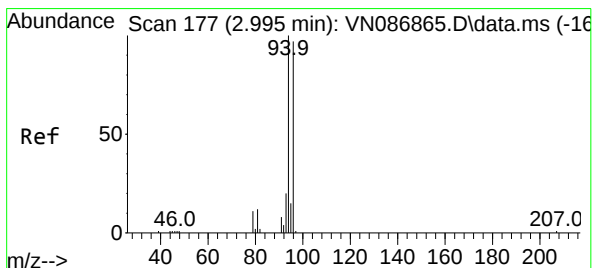
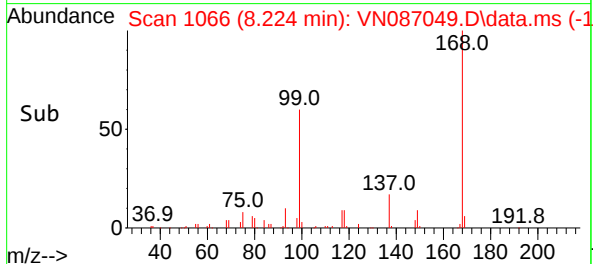
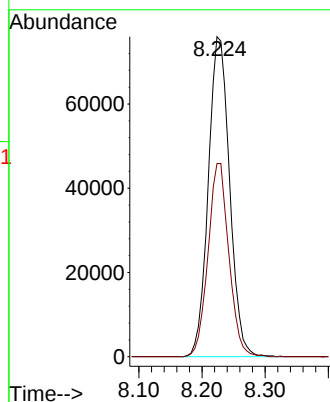
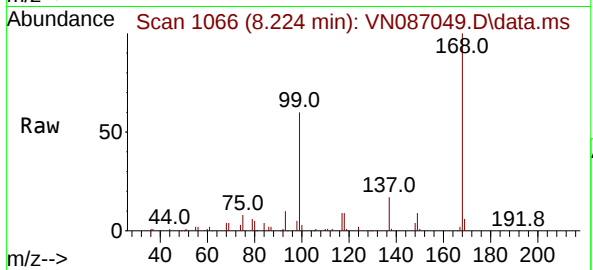




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

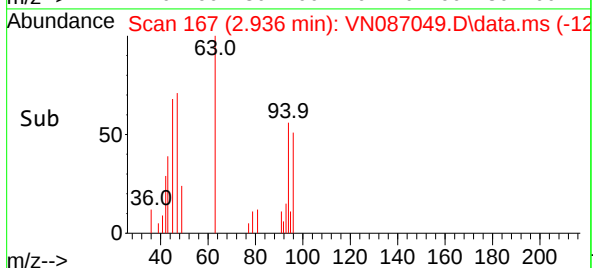
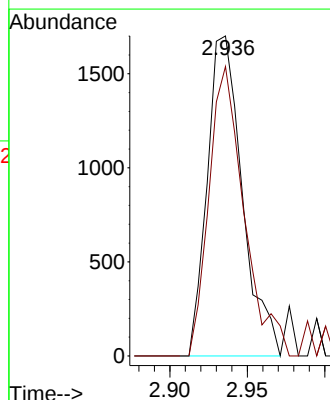
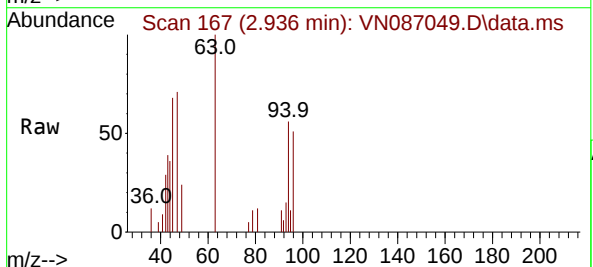
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

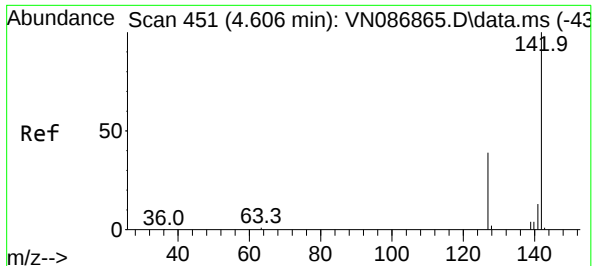
Tgt Ion:168 Resp: 177749
Ion Ratio Lower Upper
168 100
99 60.3 49.1 73.7



#5
Bromomethane
Concen: 2.028 ug/l
RT: 2.936 min Scan# 167
Delta R.T. -0.059 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

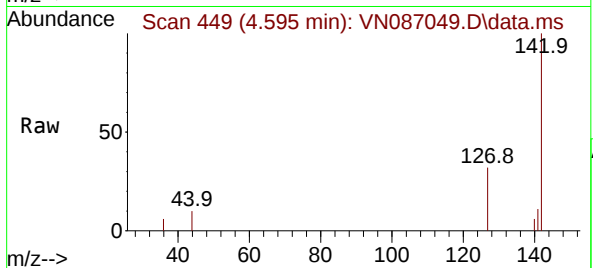
Tgt Ion: 94 Resp: 2679
Ion Ratio Lower Upper
94 100
96 90.5 77.9 116.9



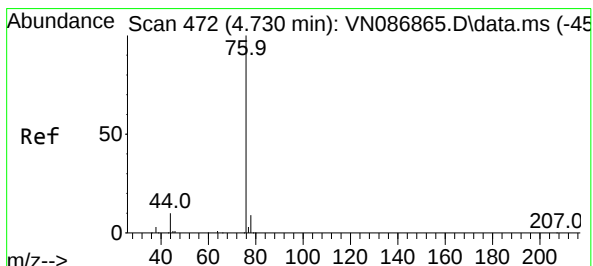
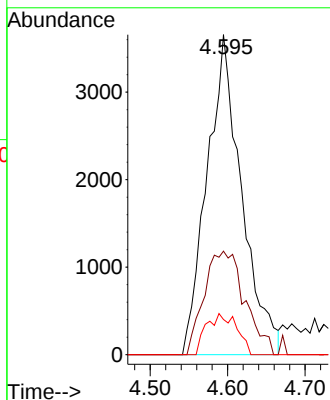
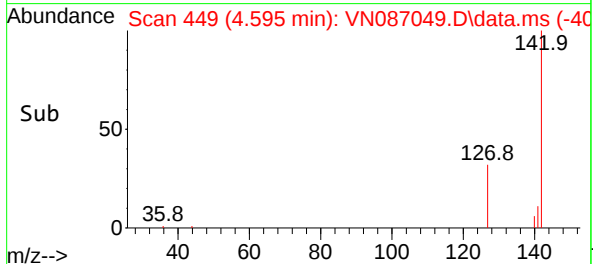


#10
Methyl Iodide
Concen: 4.518 ug/l
RT: 4.595 min Scan# 449
Delta R.T. -0.012 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

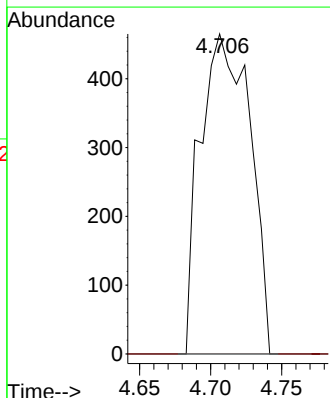
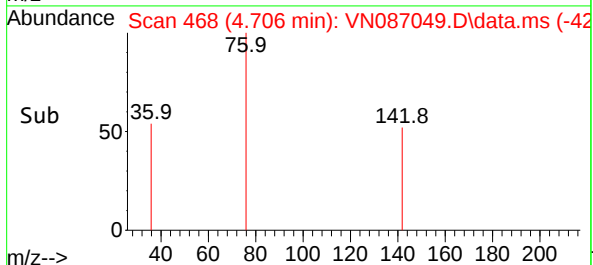
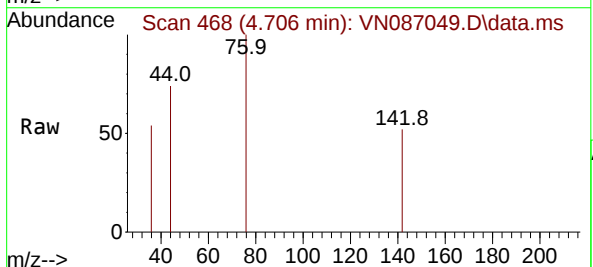


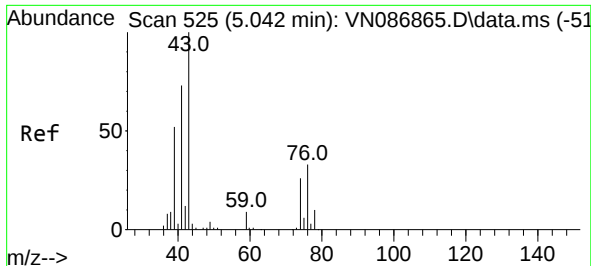
Tgt Ion:142 Resp: 11350
Ion Ratio Lower Upper
142 100
127 32.3 30.9 46.3
141 11.0 10.4 15.6



#17
Carbon Disulfide
Concen: 0.207 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.024 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion: 76 Resp: 1132
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#

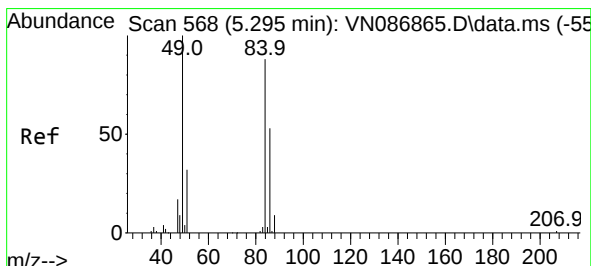
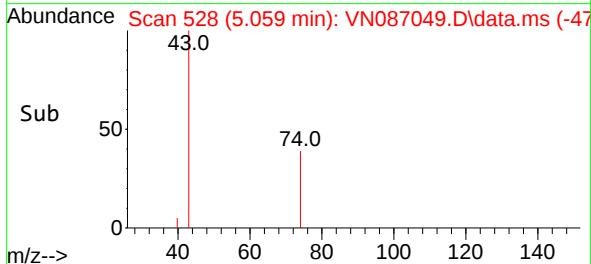
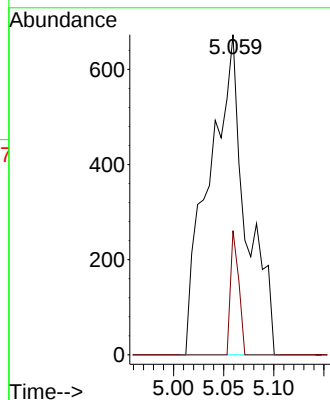
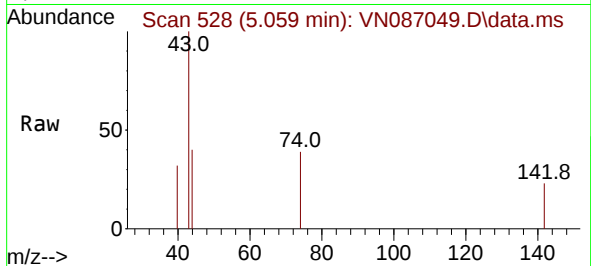




#18
Methyl Acetate
Concen: 0.467 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

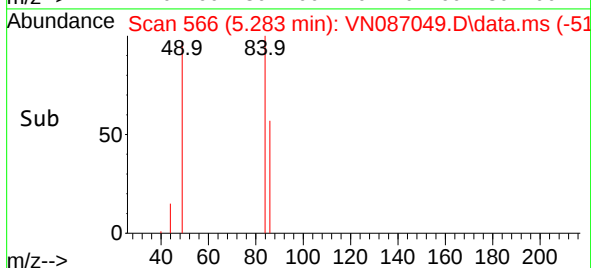
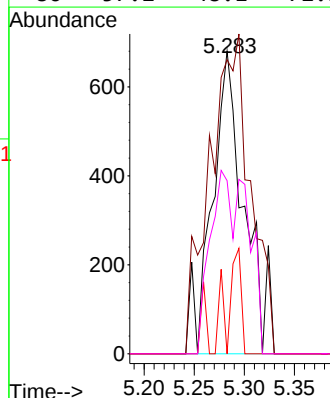
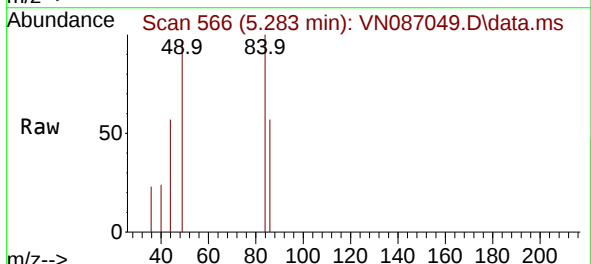
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

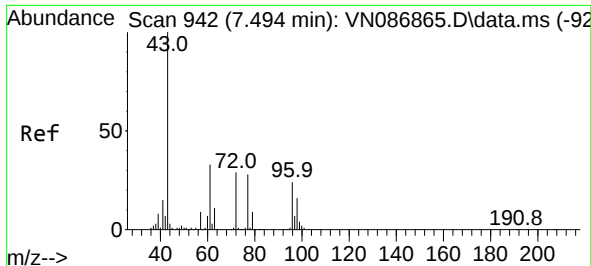
Tgt Ion: 43 Resp: 1717
Ion Ratio Lower Upper
43 100
74 8.6 20.7 31.1#



#20
Methylene Chloride
Concen: 0.648 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.012 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion: 84 Resp: 1530
Ion Ratio Lower Upper
84 100
49 97.2 90.5 135.7
51 0.0 28.5 42.7#
86 57.2 48.1 72.1

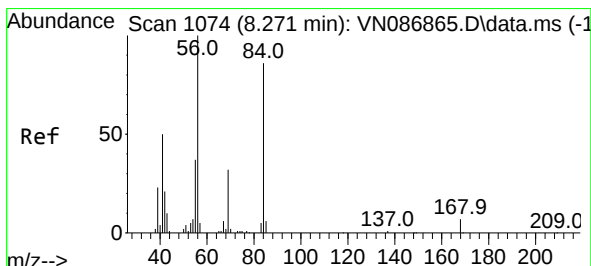
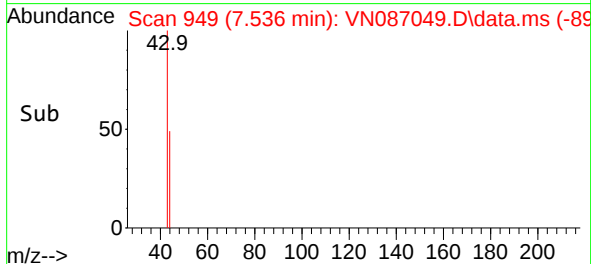
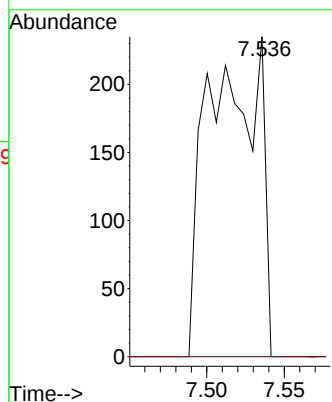
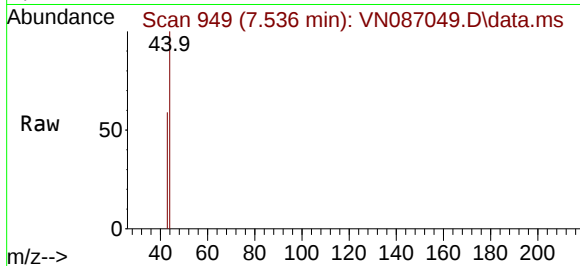




#25
2-Butanone
Concen: 0.260 ug/l
RT: 7.536 min Scan# 94
Delta R.T. 0.041 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

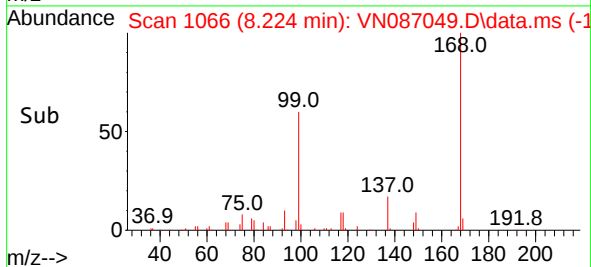
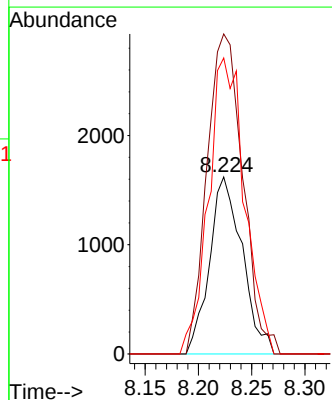
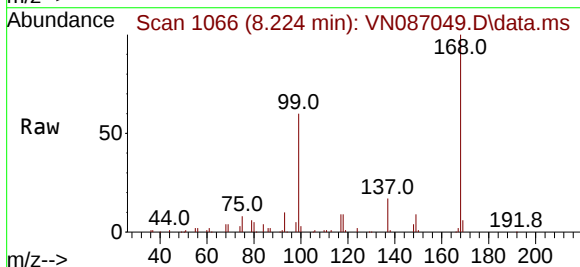
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ClientSampleId :
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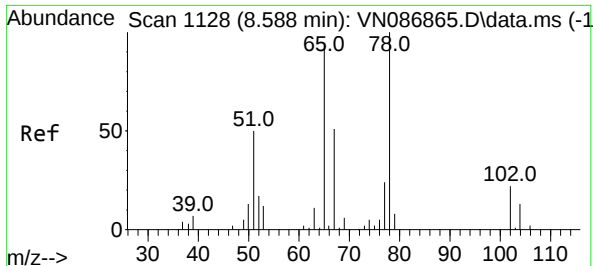
Tgt Ion: 43 Resp: 533
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#31
Cyclohexane
Concen: 0.897 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.047 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion: 56 Resp: 3461
Ion Ratio Lower Upper
56 100
69 180.8 25.4 38.0#
84 167.2 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 53.462 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN087049.D

Acq: 17 Jun 2025 11:16

Instrument :

MSVOA_N

ClientSampleId :

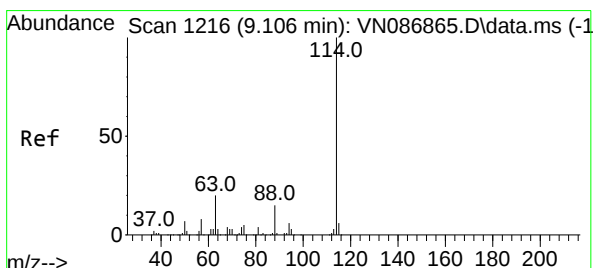
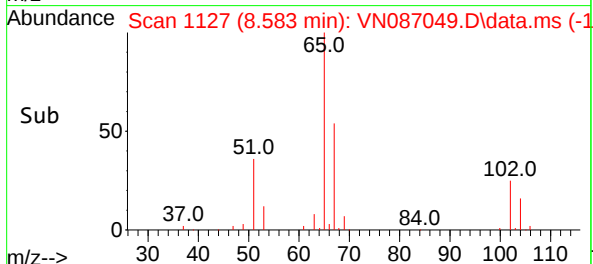
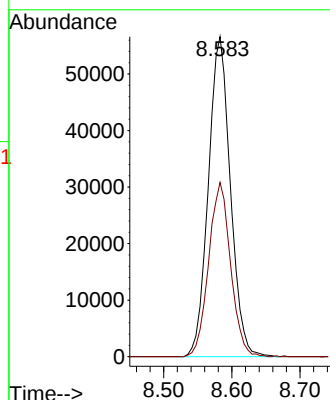
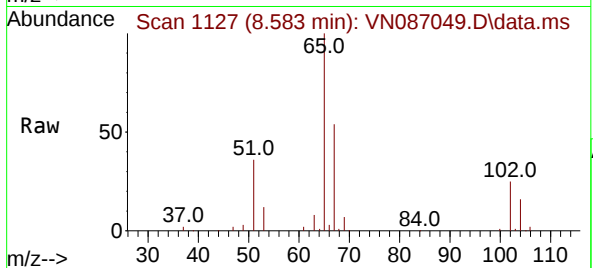
LINDEN-SAA-WATER

Tgt Ion: 65 Resp: 127233

Ion Ratio Lower Upper

65 100

67 54.1 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN087049.D

Acq: 17 Jun 2025 11:16

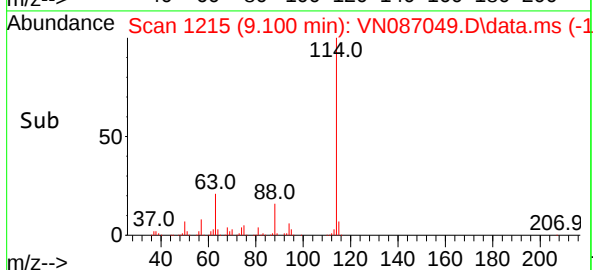
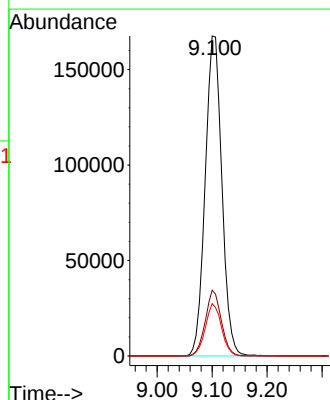
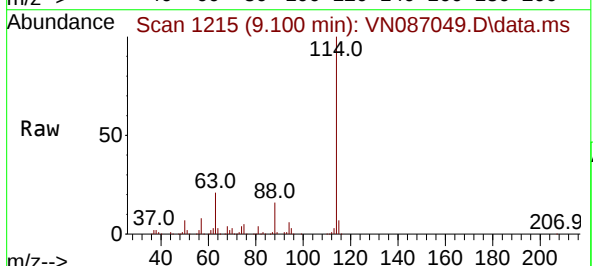
Tgt Ion: 114 Resp: 353507

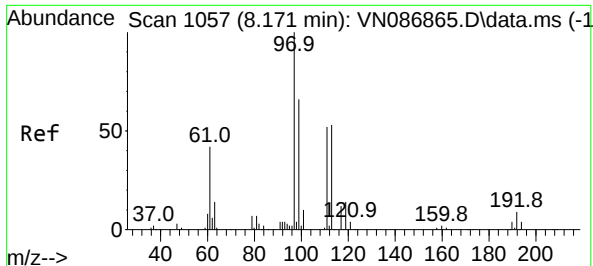
Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 16.3 0.0 30.2

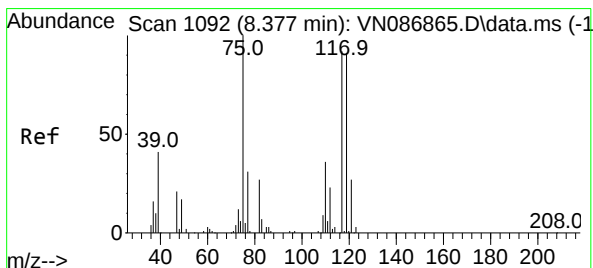
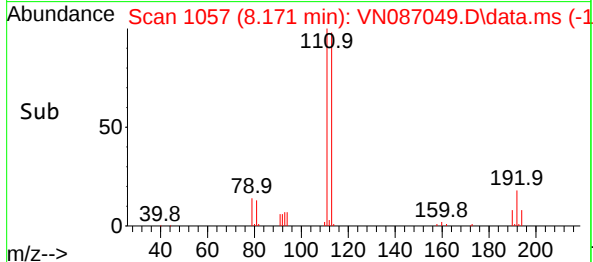
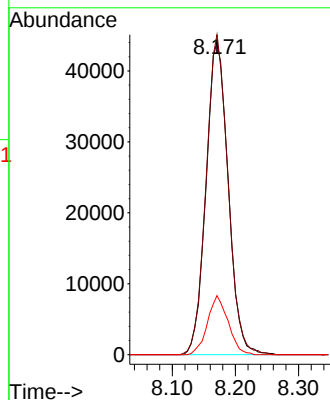
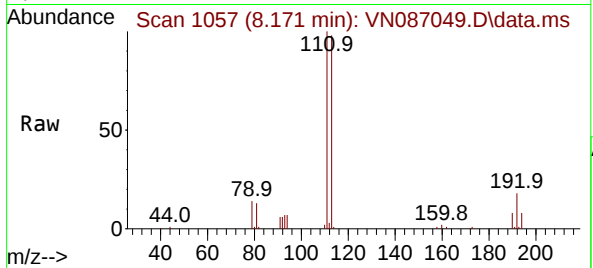




#35
Dibromofluoromethane
Concen: 51.448 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

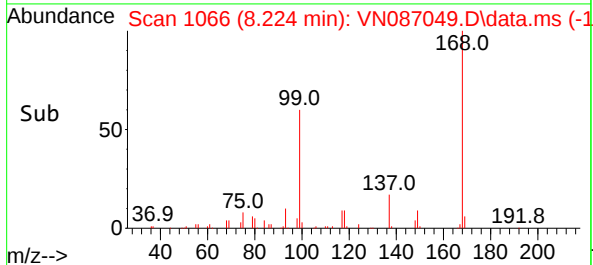
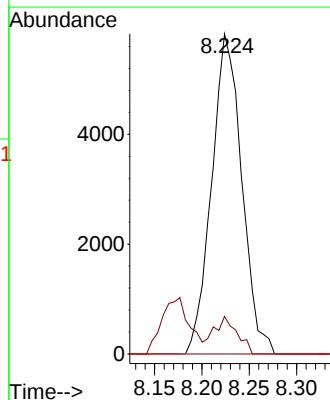
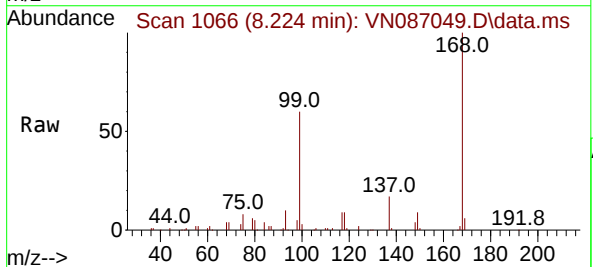
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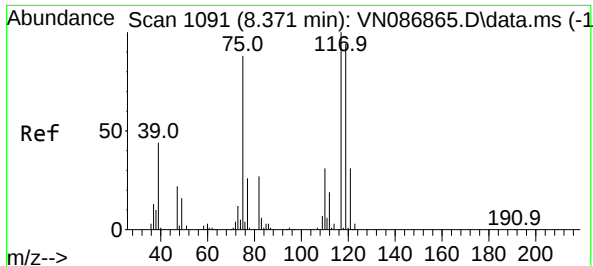
Tgt Ion:113 Resp: 107782
Ion Ratio Lower Upper
113 100
111 101.0 84.2 126.2
192 17.6 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.126 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion: 75 Resp: 12880
Ion Ratio Lower Upper
75 100
110 9.1 17.6 52.9#
77 0.0 25.3 37.9#

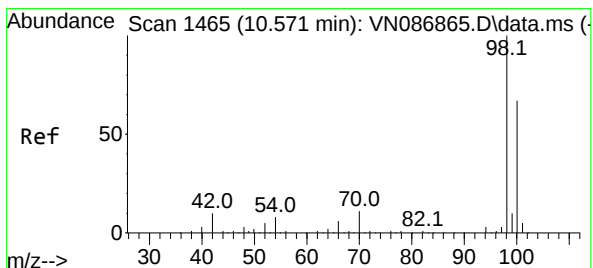
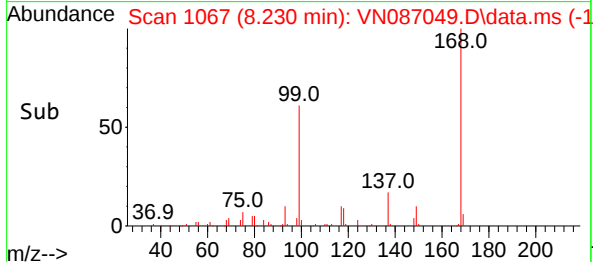
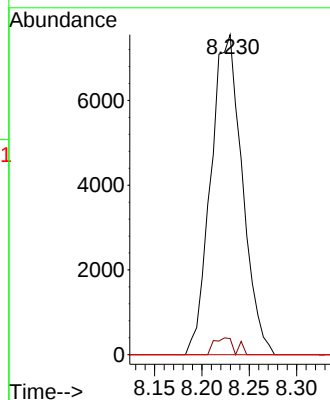
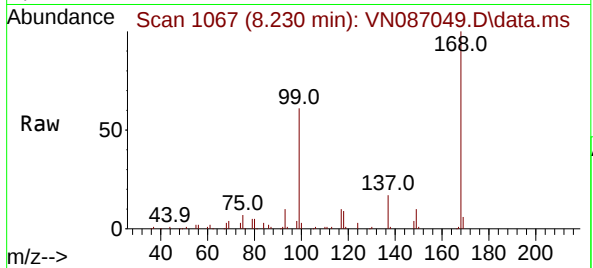




#38
Carbon Tetrachloride
Concen: 5.695 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

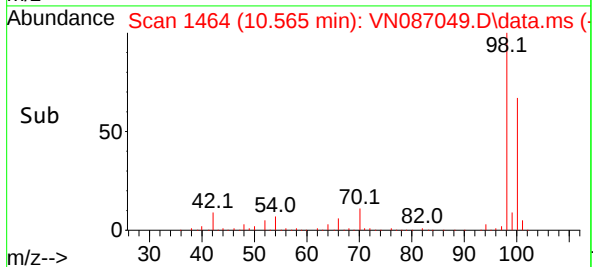
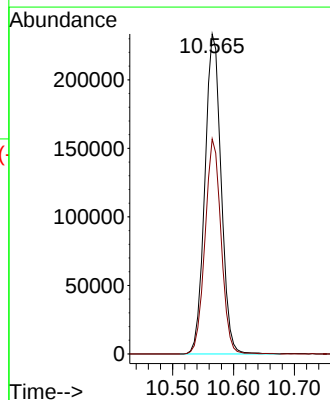
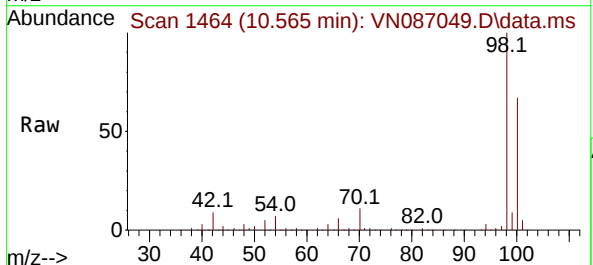
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

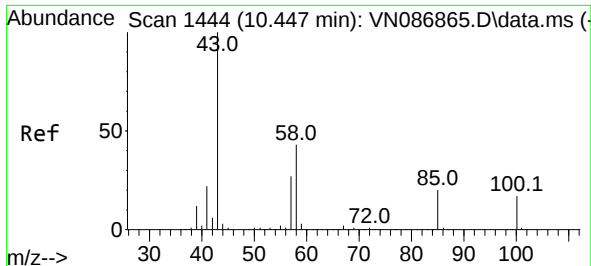
Tgt Ion:117 Resp: 17454
Ion Ratio Lower Upper
117 100
119 5.1 75.0 112.6#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 52.183 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion: 98 Resp: 432778
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0

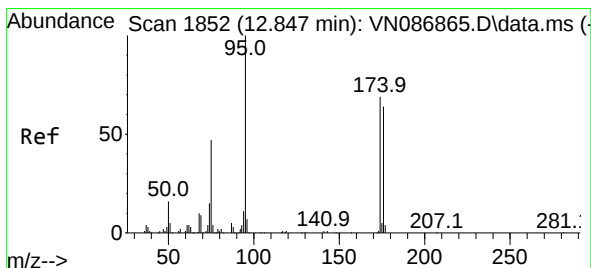
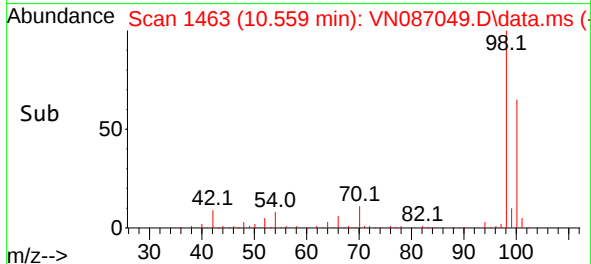
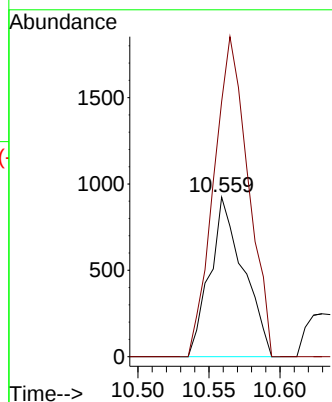
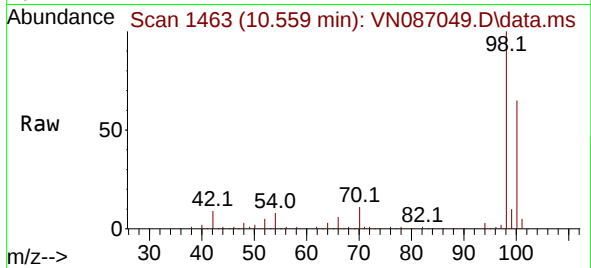




#51
4-Methyl-2-Pentanone
Concen: 0.394 ug/l
RT: 10.559 min Scan# 1444
Delta R.T. 0.112 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

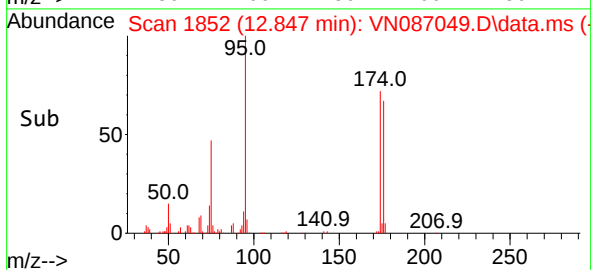
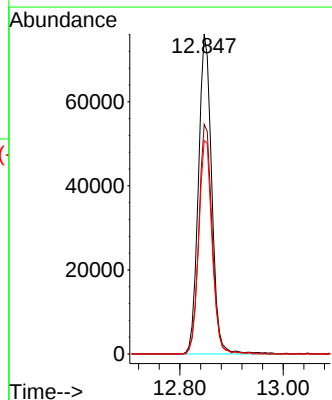
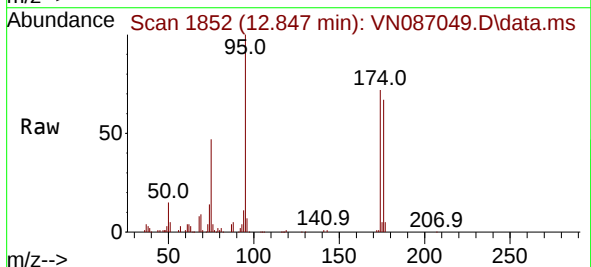
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

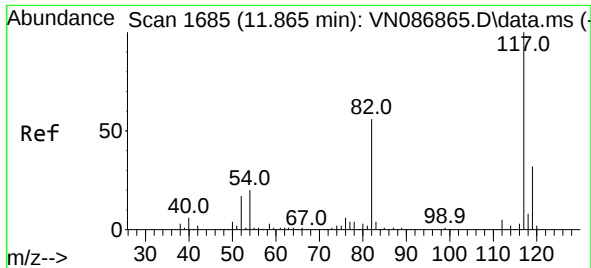
Tgt Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
58 206.7 34.2 51.4#



#62
4-Bromofluorobenzene
Concen: 44.027 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion: 95 Resp: 135658
Ion Ratio Lower Upper
95 100
174 72.2 0.0 141.8
176 67.2 0.0 132.6

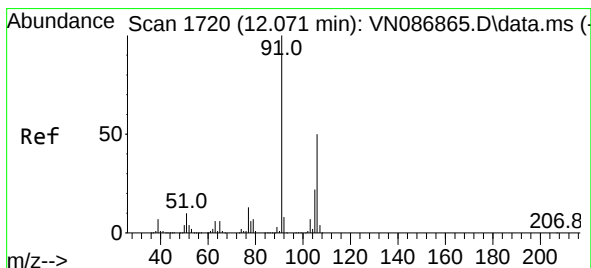
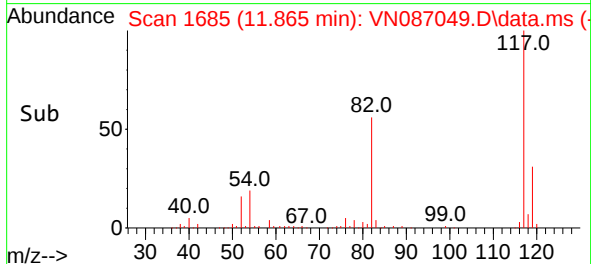
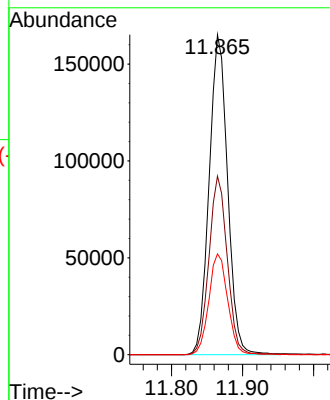
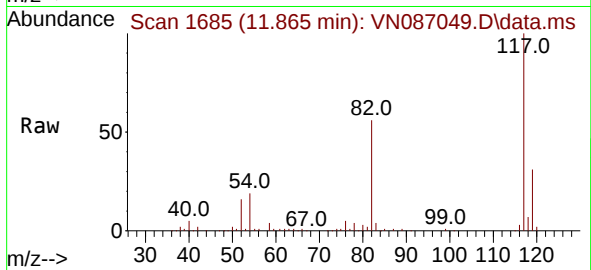




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

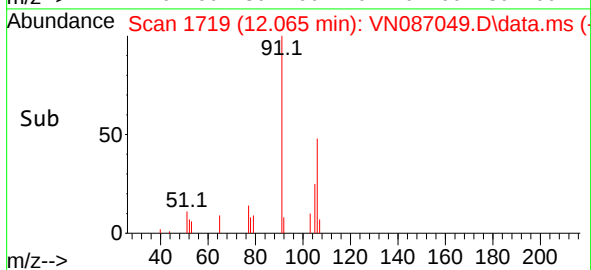
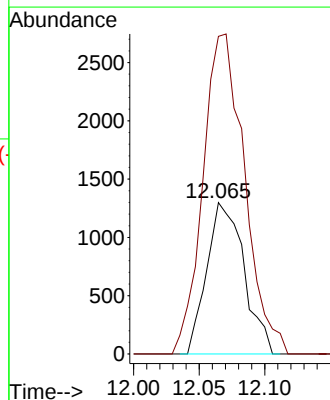
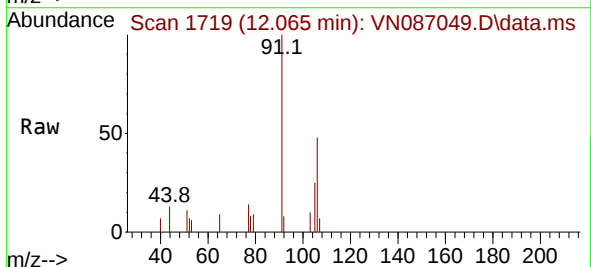
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

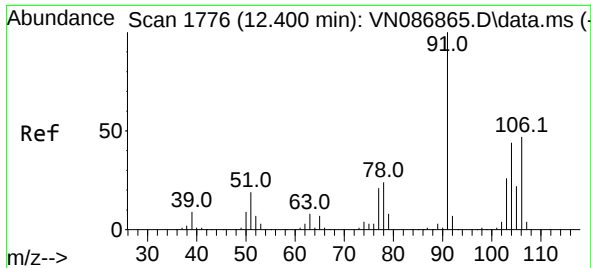
Tgt Ion:117 Resp: 297972
Ion Ratio Lower Upper
117 100
82 55.8 44.6 67.0
119 31.5 25.5 38.3



#68
m/p-Xylenes
Concen: 0.589 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion:106 Resp: 2554
Ion Ratio Lower Upper
106 100
91 237.1 159.4 239.0

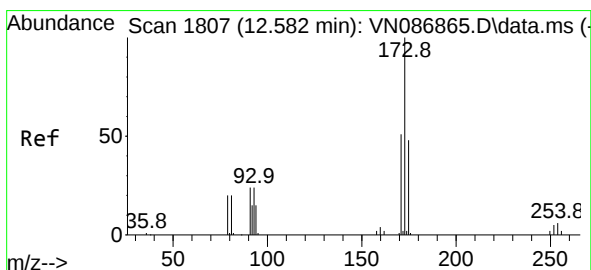
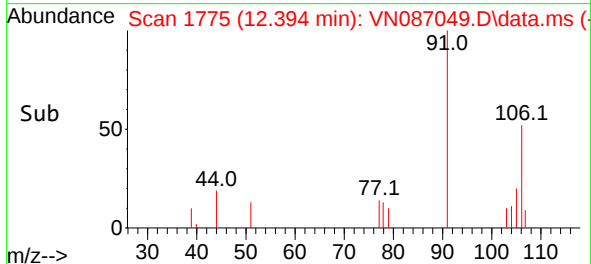
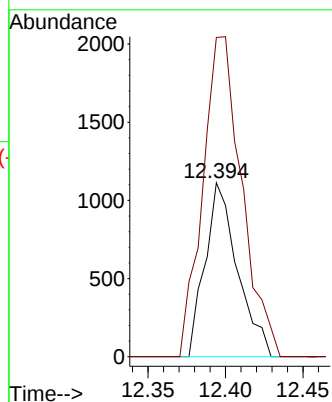
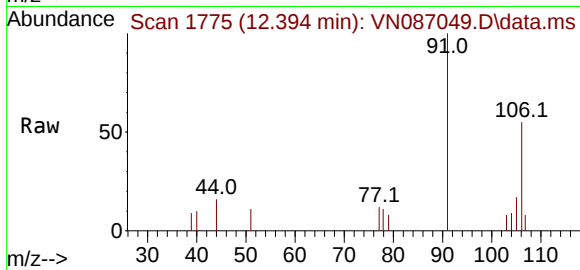




#69
o-Xylene
Concen: 0.389 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

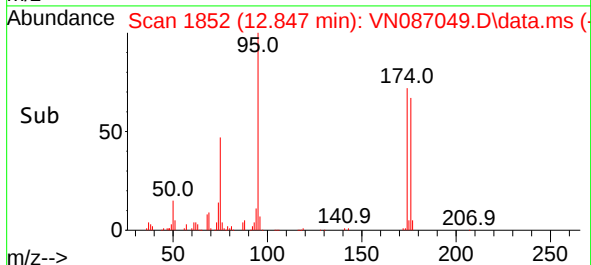
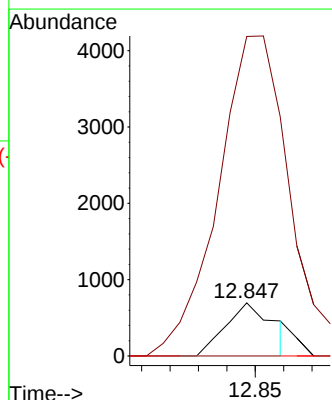
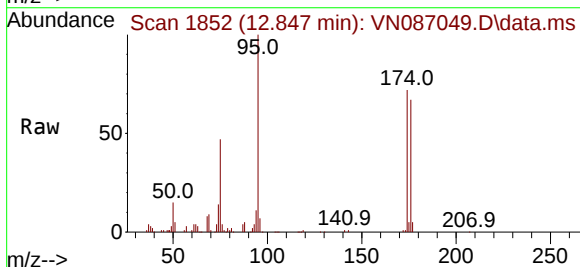
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

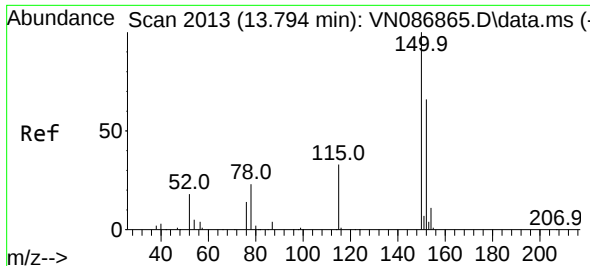
Tgt Ion:106 Resp: 1615
Ion Ratio Lower Upper
106 100
91 221.8 106.1 318.1



#71
Bromoform
Concen: 0.519 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion:173 Resp: 812
Ion Ratio Lower Upper
173 100
175 781.3 24.1 72.4#
254 0.0 0.0 0.0

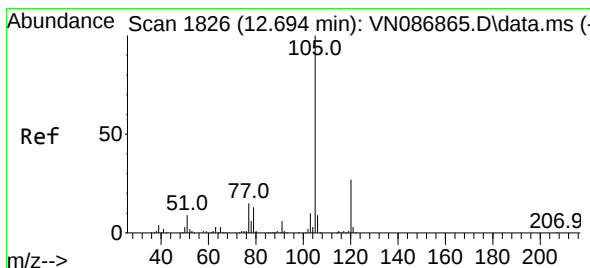
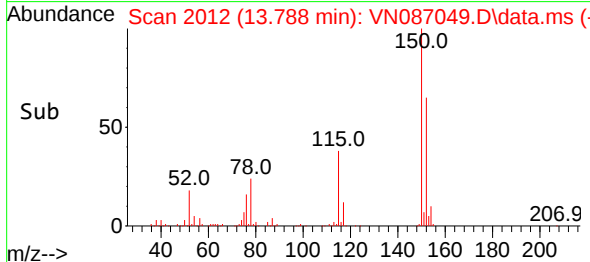
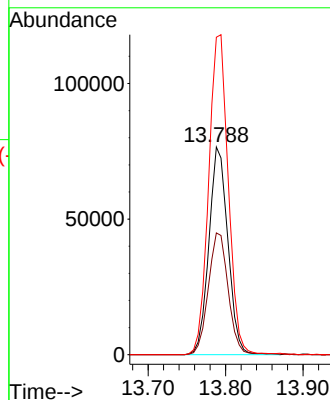
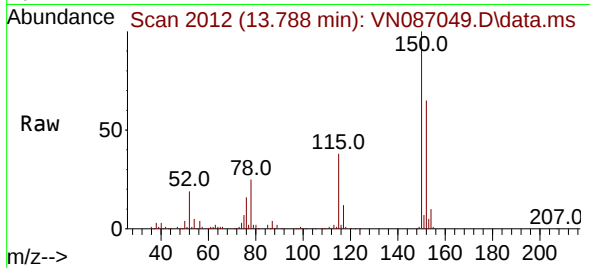




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

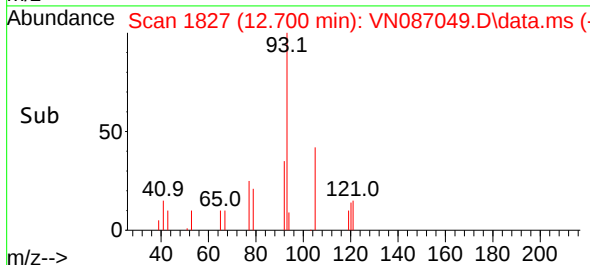
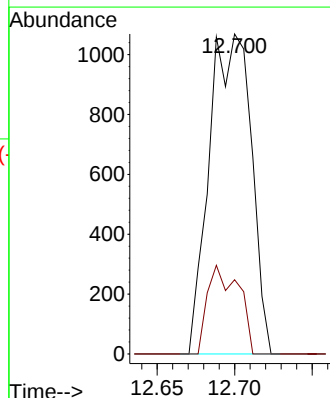
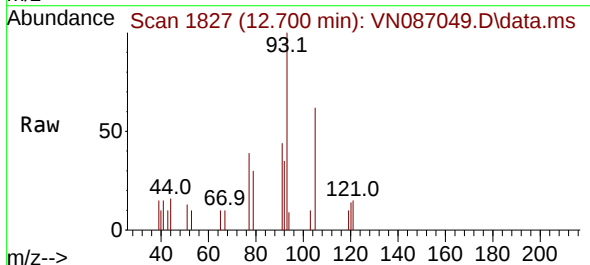
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

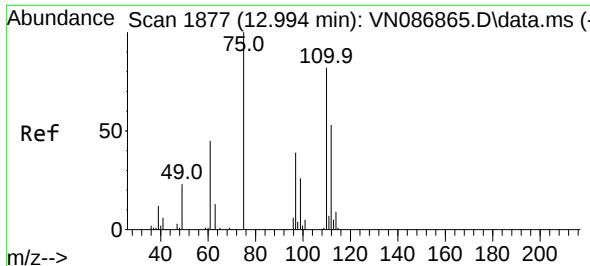
Tgt Ion:152 Resp: 130416
Ion Ratio Lower Upper
152 100
115 61.6 30.1 90.5
150 158.6 0.0 345.0



#73
Isopropylbenzene
Concen: 0.212 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. 0.006 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion:105 Resp: 2016
Ion Ratio Lower Upper
105 100
120 20.4 13.5 40.4

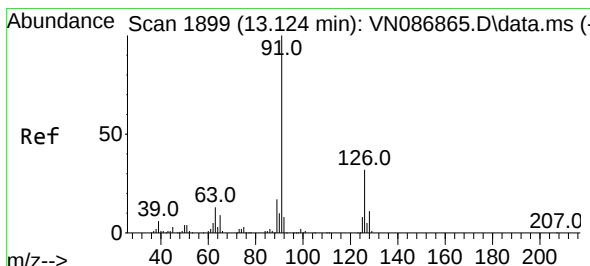
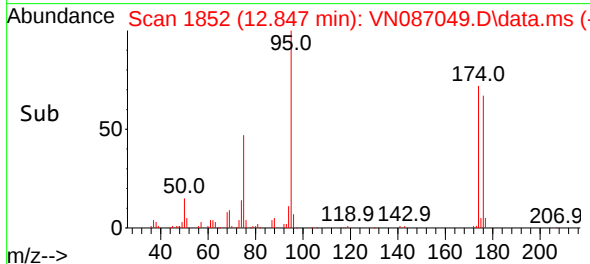
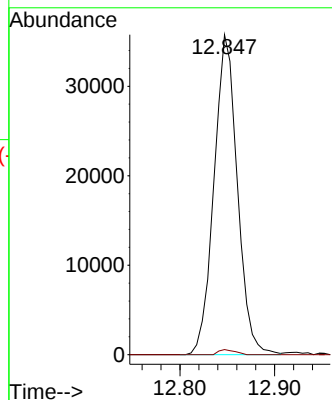
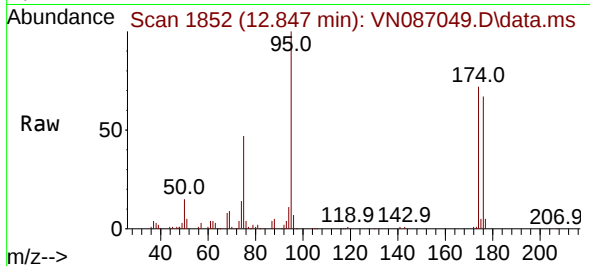




#76
1,2,3-Trichloropropane
Concen: 19.808 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

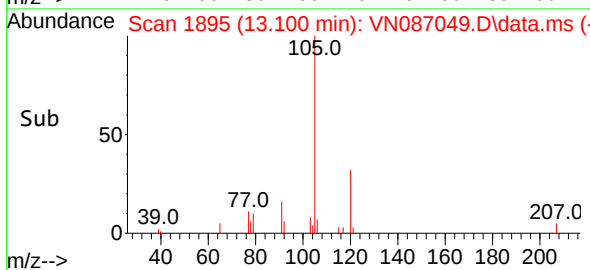
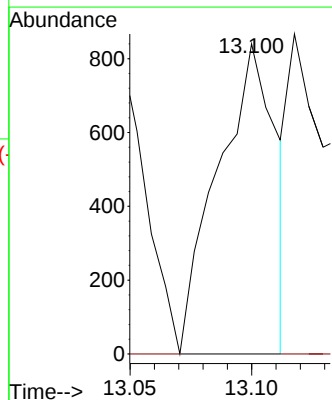
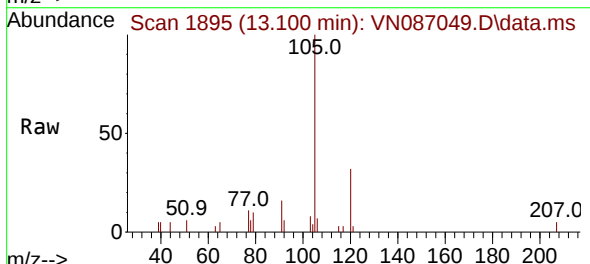
Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER

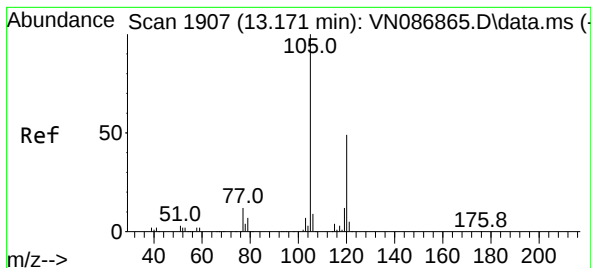
Tgt Ion: 75 Resp: 61407
Ion Ratio Lower Upper
75 100
77 1.1 79.3 237.9#



#79
2-Chlorotoluene
Concen: 0.201 ug/l
RT: 13.100 min Scan# 1895
Delta R.T. -0.024 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Tgt Ion: 91 Resp: 1392
Ion Ratio Lower Upper
91 100
126 0.0 16.2 48.5#





#80

1,3,5-Trimethylbenzene

Concen: 2.299 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN087049.D

Acq: 17 Jun 2025 11:16

Instrument :

MSVOA_N

ClientSampleId :

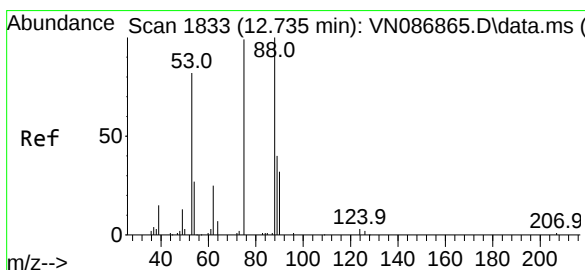
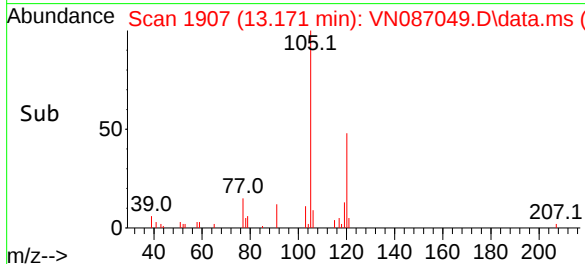
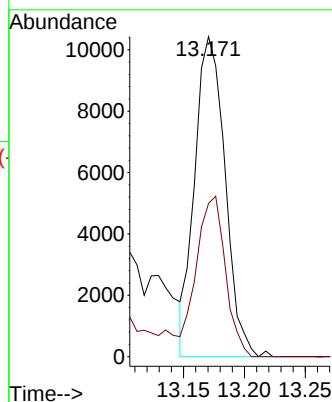
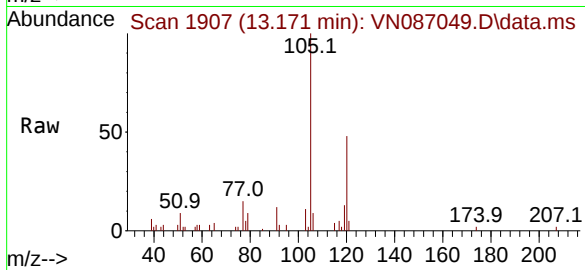
LINDEN-SAA-WATER

Tgt Ion:105 Resp: 18031

Ion Ratio Lower Upper

105 100

120 47.9 24.9 74.6



#81

trans-1,4-Dichloro-2-butene

Concen: 45.598 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN087049.D

Acq: 17 Jun 2025 11:16

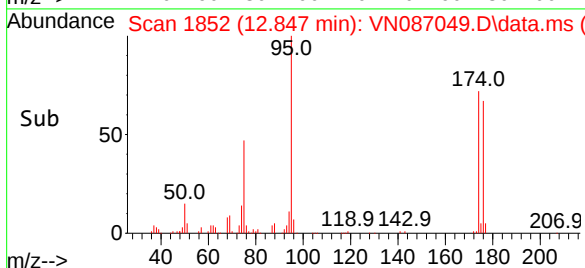
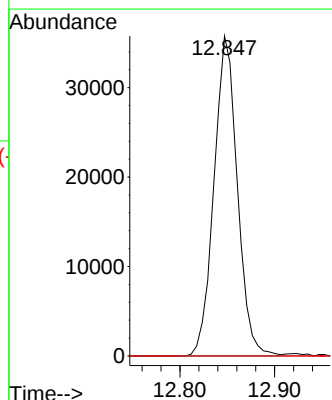
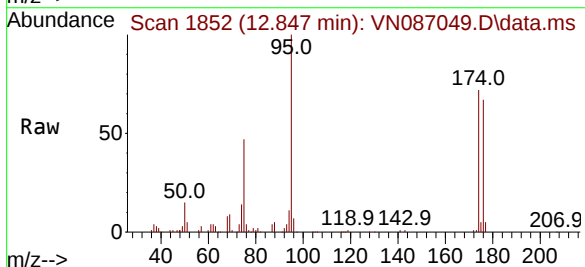
Tgt Ion: 75 Resp: 61407

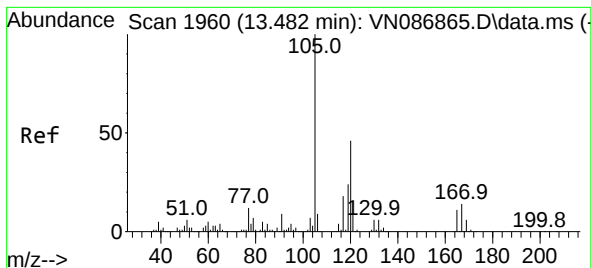
Ion Ratio Lower Upper

75 100

53 0.0 66.6 99.8#

89 0.0 36.7 55.1#





#84

1,2,4-Trimethylbenzene

Concen: 5.282 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN087049.D

Acq: 17 Jun 2025 11:16

Instrument :

MSVOA_N

ClientSampleId :

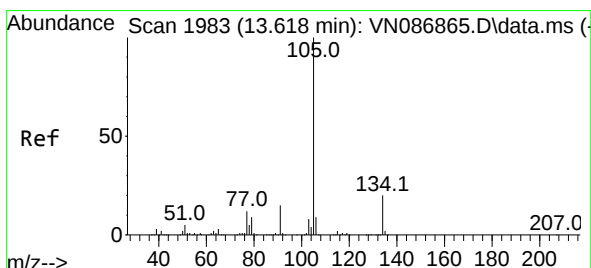
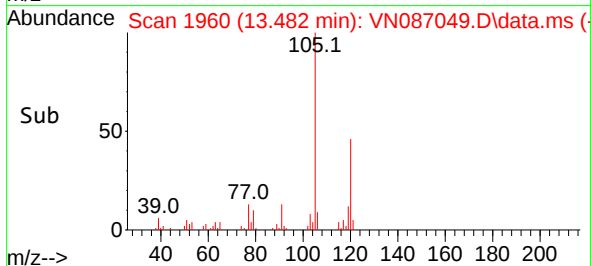
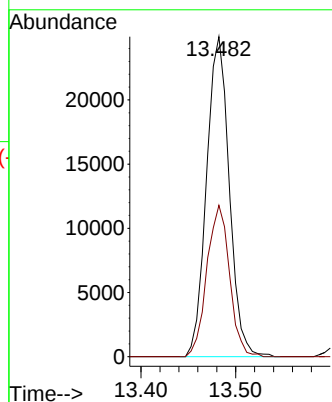
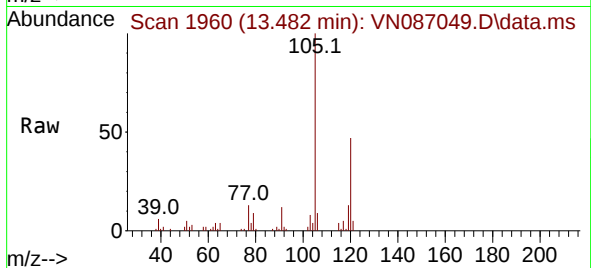
LINDEN-SAA-WATER

Tgt Ion:105 Resp: 41546

Ion Ratio Lower Upper

105 100

120 47.2 23.2 69.6



#85

sec-Butylbenzene

Concen: 0.277 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN087049.D

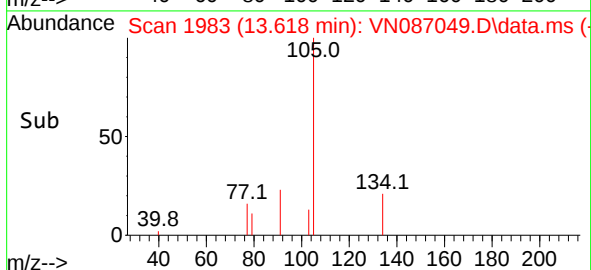
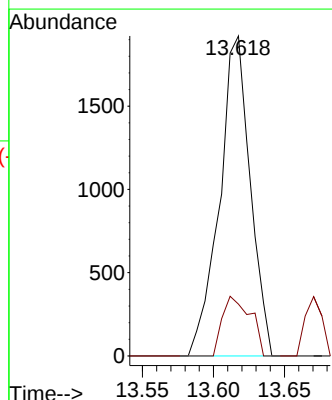
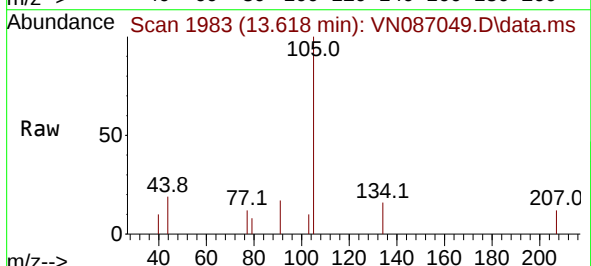
Acq: 17 Jun 2025 11:16

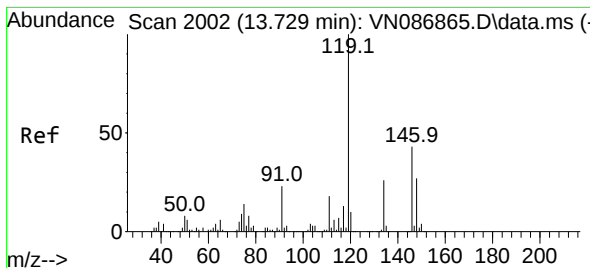
Tgt Ion:105 Resp: 2890

Ion Ratio Lower Upper

105 100

134 17.1 10.0 30.0





#86

p-Isopropyltoluene

Concen: 0.342 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN087049.D

Acq: 17 Jun 2025 11:16

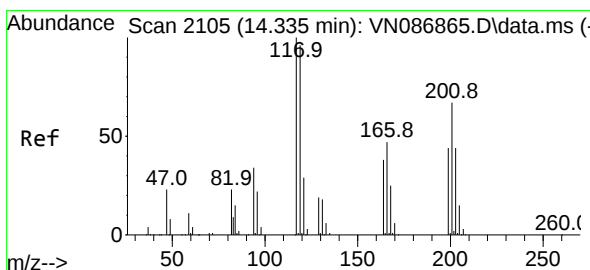
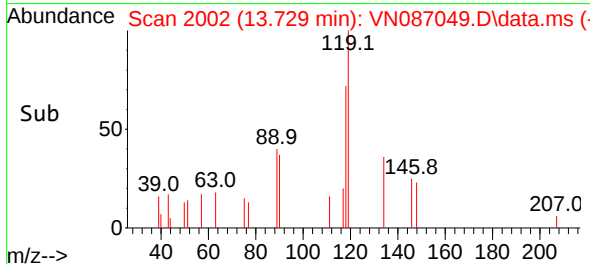
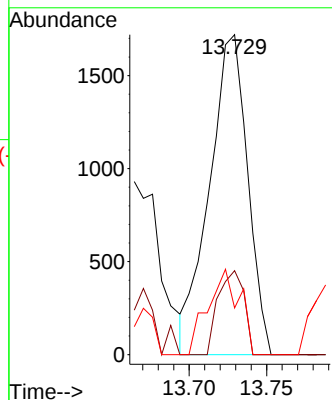
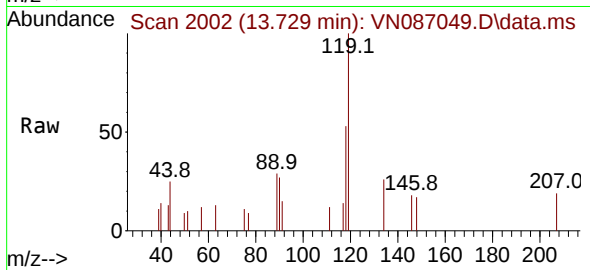
Instrument :

MSVOA_N

ClientSampleId :

LINDEN-SAA-WATER

Tgt Ion:	119	Resp:	2945
Ion	Ratio	Lower	Upper
119	100		
134	17.8	13.5	40.4
91	22.2	11.5	34.4



#90

Hexachloroethane

Concen: 0.684 ug/l

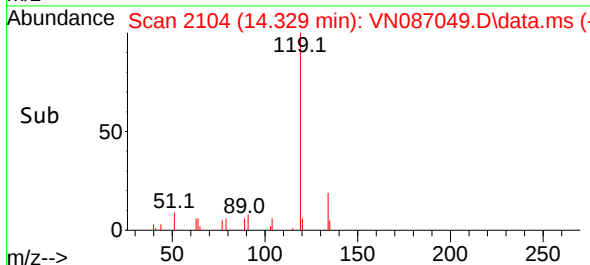
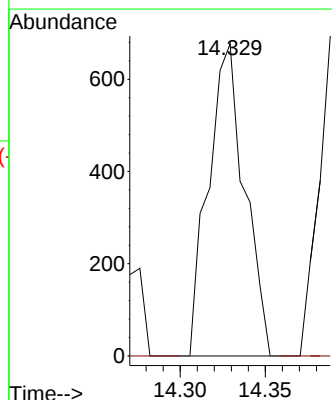
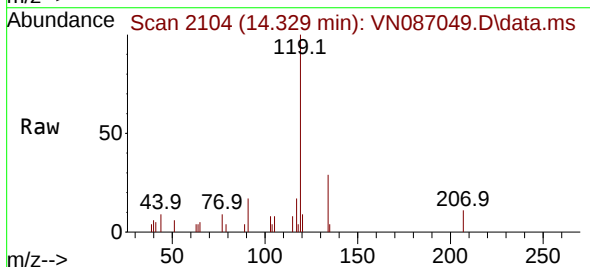
RT: 14.329 min Scan# 2104

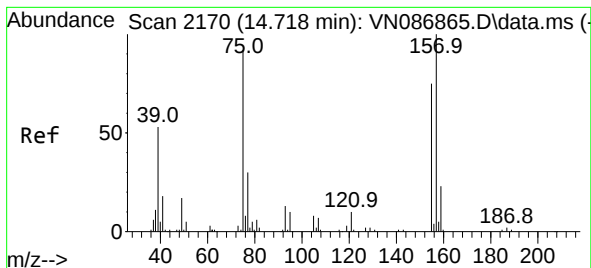
Delta R.T. -0.006 min

Lab File: VN087049.D

Acq: 17 Jun 2025 11:16

Tgt Ion:	117	Resp:	1000
Ion	Ratio	Lower	Upper
117	100		
201	0.0	33.2	99.6

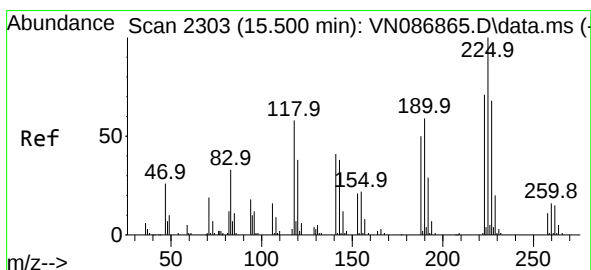
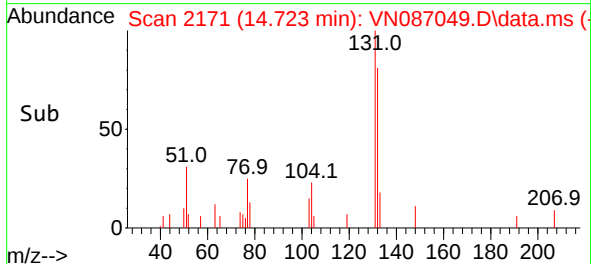
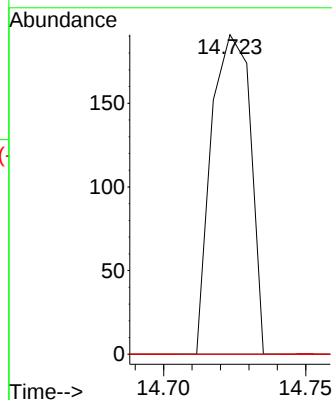
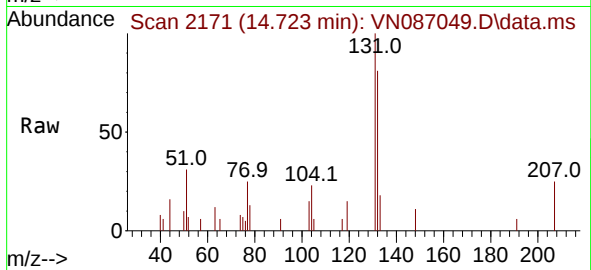




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.236 ug/l
 RT: 14.723 min Scan# 2171
 Delta R.T. 0.006 min
 Lab File: VN087049.D
 Acq: 17 Jun 2025 11:16

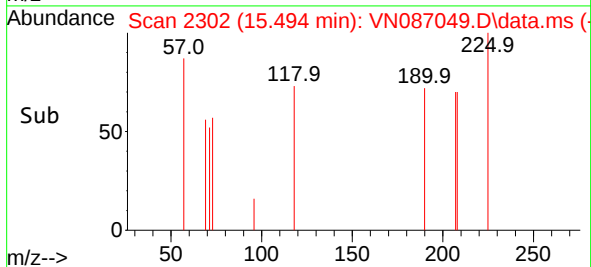
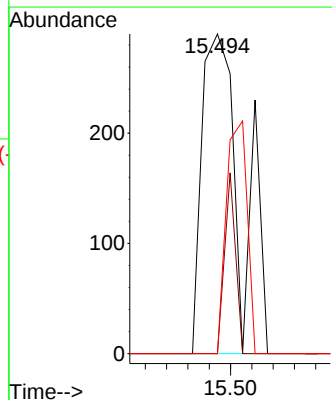
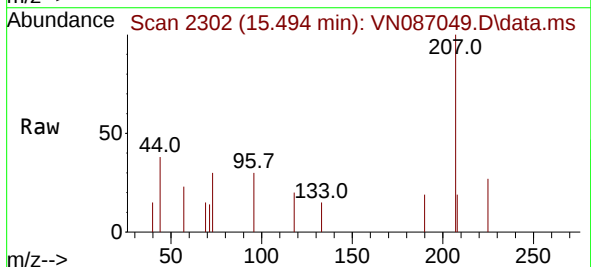
Instrument :
 MSVOA_N
 ClientSampleId :
 LINDEN-SAA-WATER

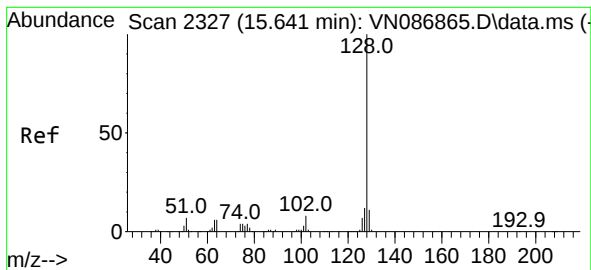
Tgt Ion: 75 Resp: 182
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.1 123.4#
 157 0.0 52.7 158.1#



#94
 Hexachlorobutadiene
 Concen: 0.375 ug/l
 RT: 15.494 min Scan# 2302
 Delta R.T. -0.006 min
 Lab File: VN087049.D
 Acq: 17 Jun 2025 11:16

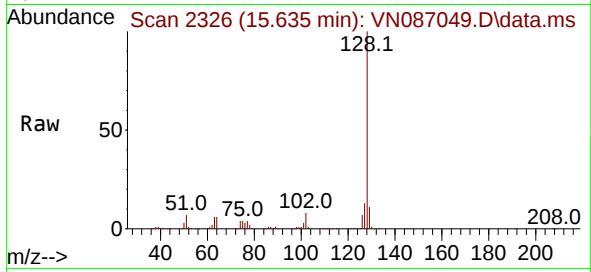
Tgt Ion: 225 Resp: 367
 Ion Ratio Lower Upper
 225 100
 223 15.8 33.5 100.4#
 227 39.0 31.1 93.5





#95
Naphthalene
Concen: 119.936 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN087049.D
Acq: 17 Jun 2025 11:16

Instrument :
MSVOA_N
ClientSampleId :
LINDEN-SAA-WATER



Tgt Ion:128 Resp: 1174087
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.8 13.2

