

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087504.D
 Acq On : 12 Aug 2025 11:07
 Operator : JC\MD
 Sample : VN0812WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBL01

Quant Time: Aug 13 03:00:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

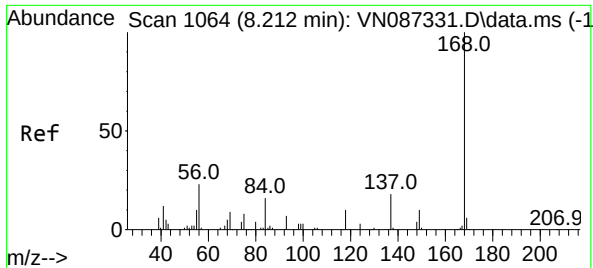
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.212	168	271221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	578160	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	521832	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	242445	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	268632	58.372	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.740%			
35) Dibromofluoromethane	8.153	113	200423	50.255	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.500%			
50) Toluene-d8	10.547	98	730025	51.316	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.640%			
62) 4-Bromofluorobenzene	12.829	95	263428	50.120	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.240%			
Target Compounds					Qvalue	
5) Bromomethane	2.995	94	1403	0.753	ug/l #	60
10) Methyl Iodide	4.600	142	1247	6.025	ug/l #	75
13) Acrolein	4.183	56	175	0.250	ug/l #	1
15) Acrylonitrile	5.700	53	552	0.233	ug/l #	65
16) Acetone	4.424	43	2673	1.239	ug/l #	85
17) Carbon Disulfide	4.706	76	4131	0.450	ug/l #	71
20) Methylene Chloride	5.253	84	895	Below Cal	#	60
21) trans-1,2-Dichloroethene	5.759	96	1184	0.339	ug/l #	53
25) 2-Butanone	7.471	43	888	0.266	ug/l #	51
31) Cyclohexane	8.206	56	9279	1.640	ug/l #	33
36) 1,1-Dichloropropene	8.206	75	26649	5.058	ug/l #	50
38) Carbon Tetrachloride	8.212	117	30261	5.214	ug/l #	14
39) Methylcyclohexane	9.582	83	1664	0.292	ug/l #	76
56) Ethyl methacrylate	10.882	69	225	0.667	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	152642	28.077	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	152642	76.822	ug/l #	8
85) sec-Butylbenzene	13.594	105	3506	0.214	ug/l	100
86) p-Isopropyltoluene	13.712	119	2983	0.228	ug/l	88
87) 1,3-Dichlorobenzene	13.706	146	1599	0.206	ug/l #	73
88) 1,4-Dichlorobenzene	13.800	146	2140	0.258	ug/l #	26
89) n-Butylbenzene	14.041	91	4558	0.364	ug/l	92
93) 1,2,4-Trichlorobenzene	15.359	180	1934	0.447	ug/l	87
94) Hexachlorobutadiene	15.482	225	1011	0.630	ug/l	82
95) Naphthalene	15.623	128	4795	0.313	ug/l	96
96) 1,2,3-Trichlorobenzene	15.823	180	1806	0.417	ug/l	88

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

Quant Time: Aug 13 03:00:25 2025
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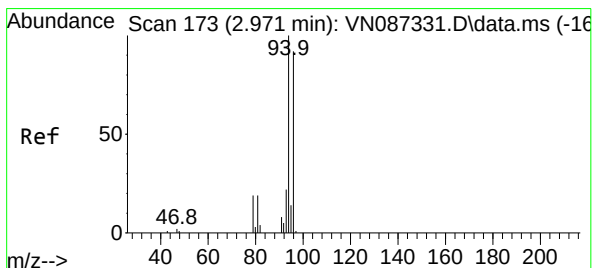
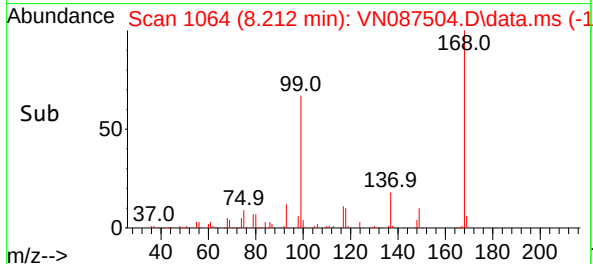
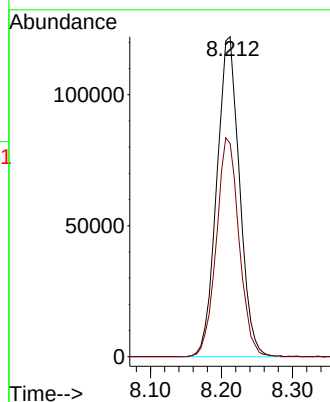
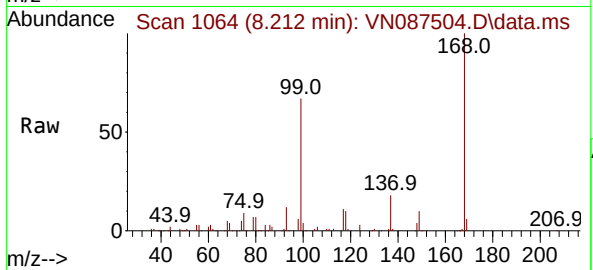




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

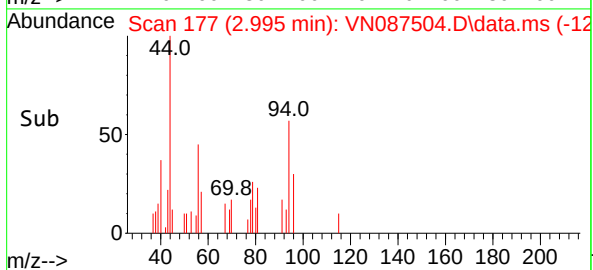
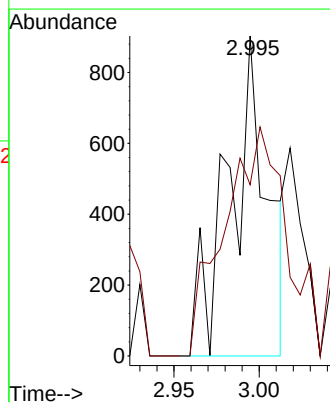
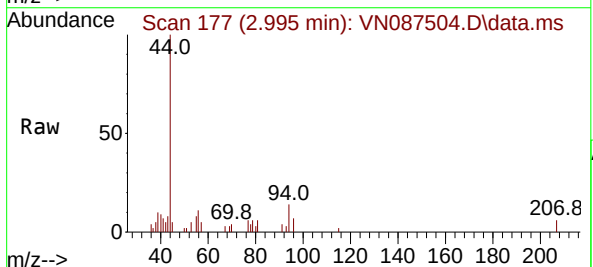
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

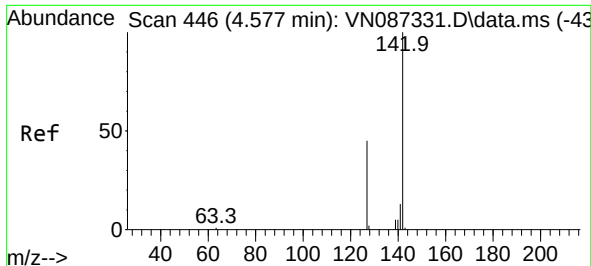
Tgt Ion:168 Resp: 271221
Ion Ratio Lower Upper
168 100
99 66.6 47.9 71.9



#5
Bromomethane
Concen: 0.753 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.024 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 94 Resp: 1403
Ion Ratio Lower Upper
94 100
96 53.5 73.4 110.2#

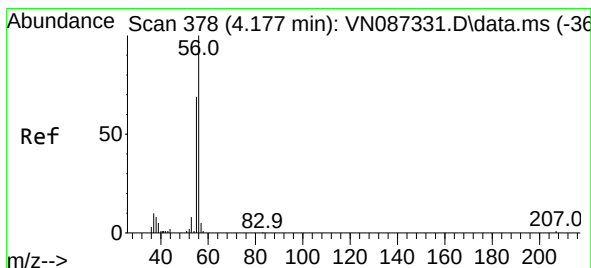
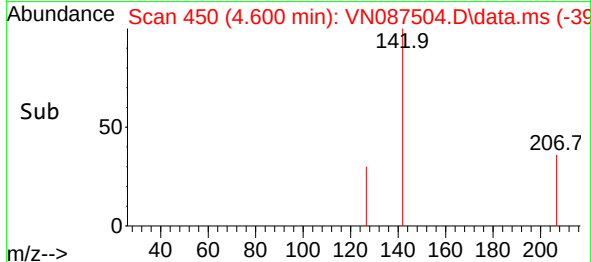
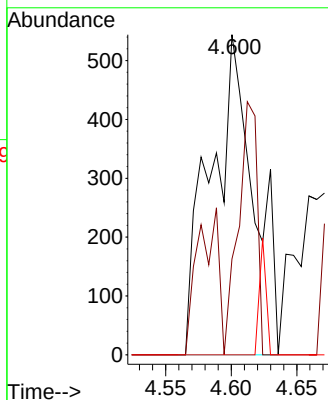
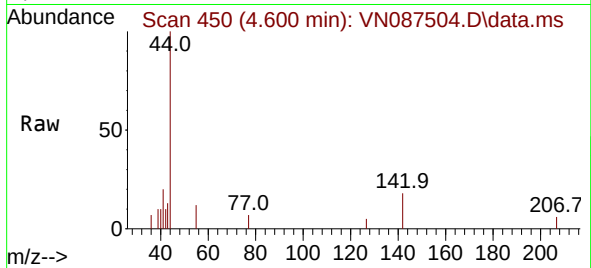




#10
Methyl Iodide
Concen: 6.025 ug/l
RT: 4.600 min Scan# 41
Delta R.T. 0.023 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

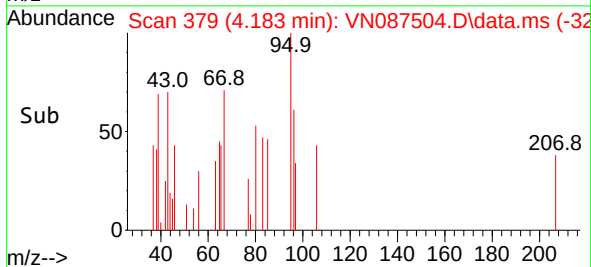
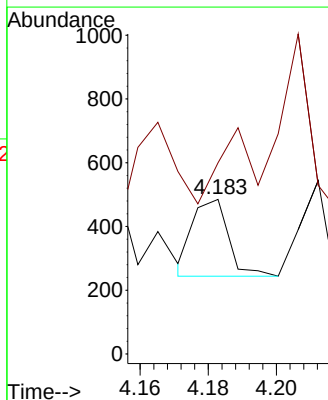
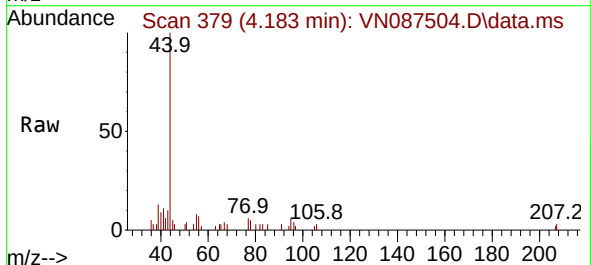
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ClientSampleId :
VN0812WBL01

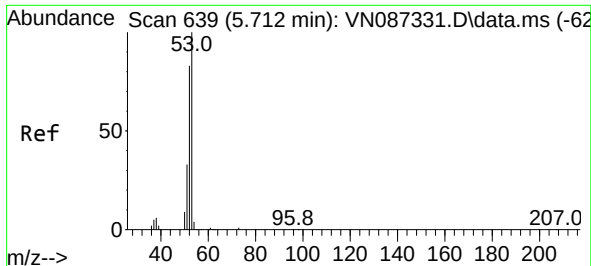
Tgt Ion:142 Resp: 1247
Ion Ratio Lower Upper
142 100
127 30.0 35.7 53.5#
141 0.0 10.4 15.6#



#13
Acrolein
Concen: 0.250 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 56 Resp: 175
Ion Ratio Lower Upper
56 100
55 238.3 56.2 84.4#

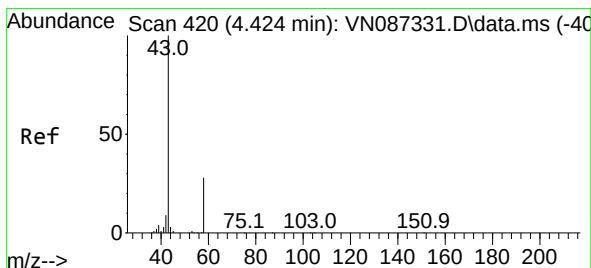
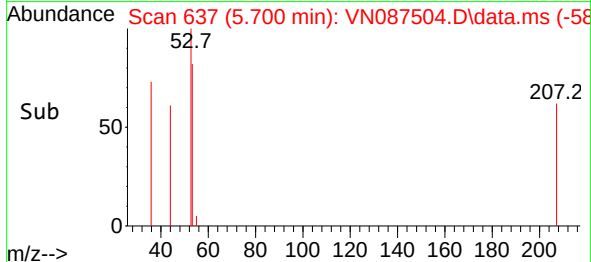
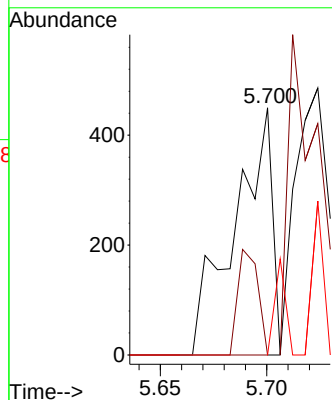
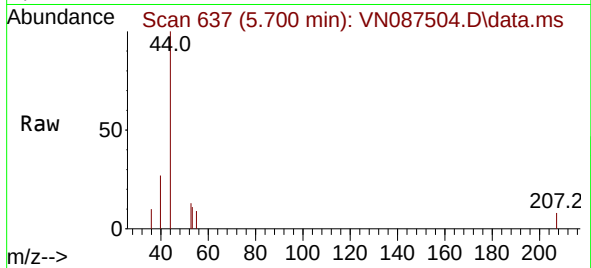




#15
Acrylonitrile
Concen: 0.233 ug/l
RT: 5.700 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

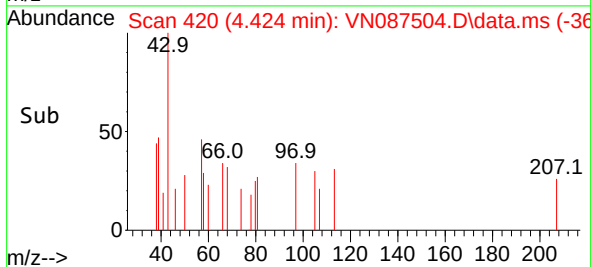
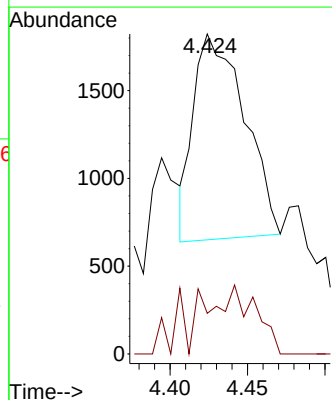
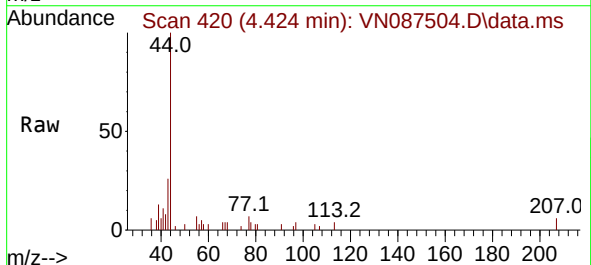
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MSVOA_N
ClientSampleId :
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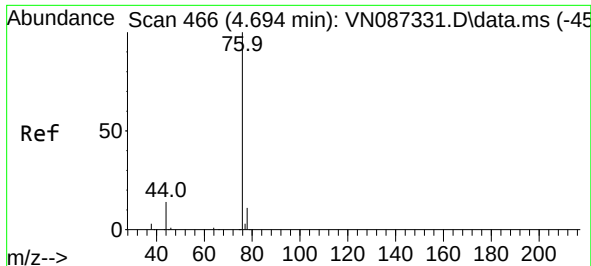
Tgt Ion: 53 Resp: 552
Ion Ratio Lower Upper
53 100
52 111.1 65.5 98.3#
51 11.2 28.7 43.1#



#16
Acetone
Concen: 1.239 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 43 Resp: 2673
Ion Ratio Lower Upper
43 100
58 20.3 22.3 33.5#

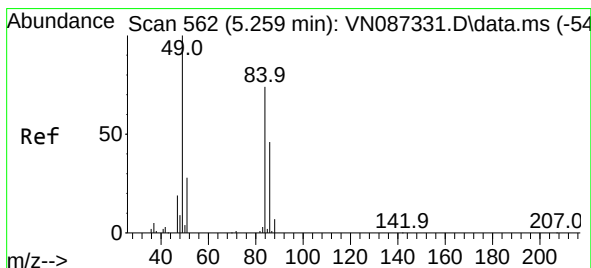
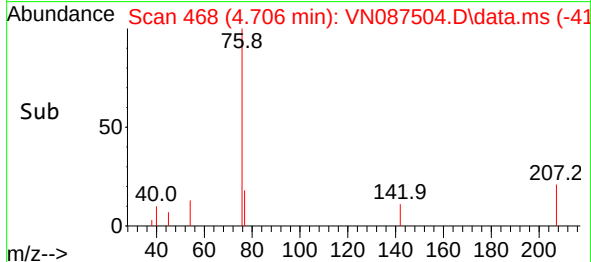
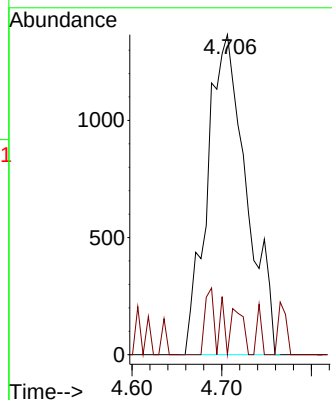
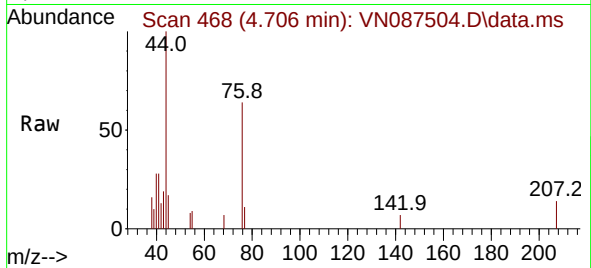




#17
Carbon Disulfide
Concen: 0.450 ug/l
RT: 4.706 min Scan# 4131
Delta R.T. 0.012 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

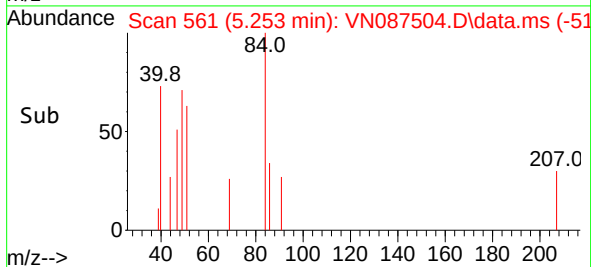
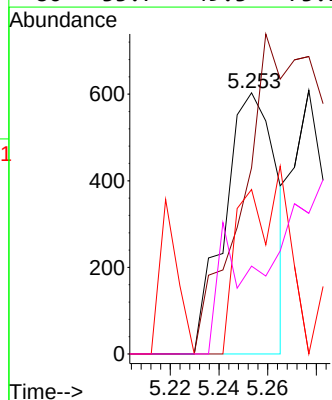
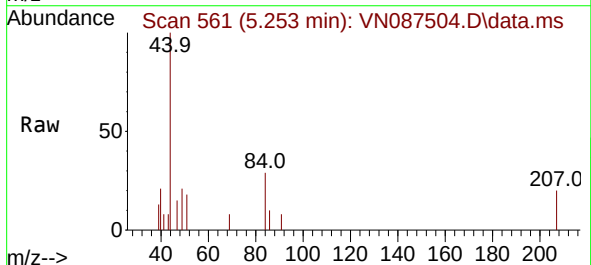
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

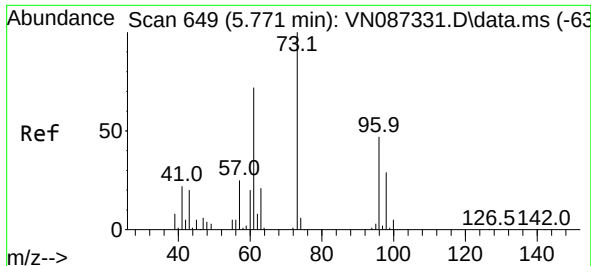
Tgt Ion: 76 Resp: 4131
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.253 min Scan# 561
Delta R.T. -0.006 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 84 Resp: 895
Ion Ratio Lower Upper
84 100
49 71.3 107.5 161.3#
51 36.8 30.2 45.2
86 33.7 49.3 73.9#

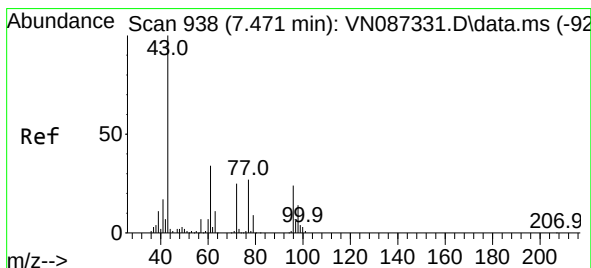
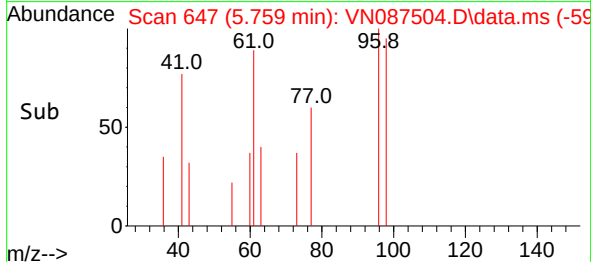
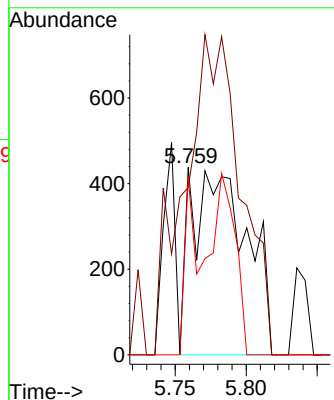
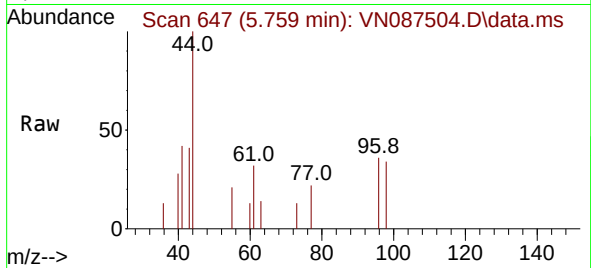




#21
trans-1,2-Dichloroethene
Concen: 0.339 ug/l
RT: 5.759 min Scan# 649
Delta R.T. -0.012 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

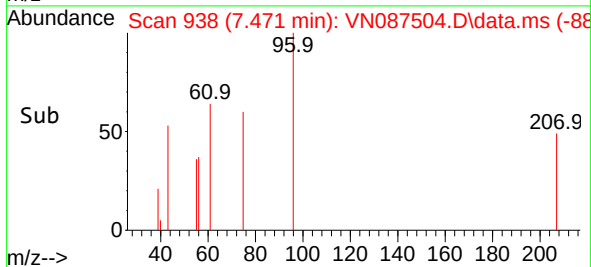
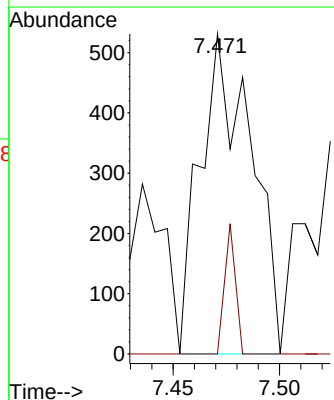
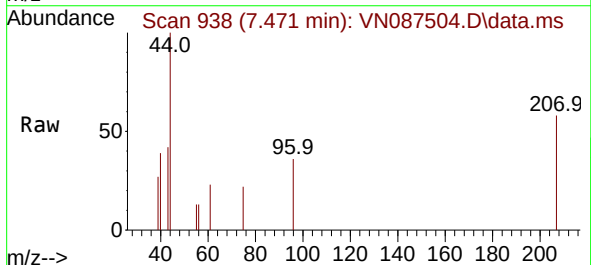
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ClientSampleId :
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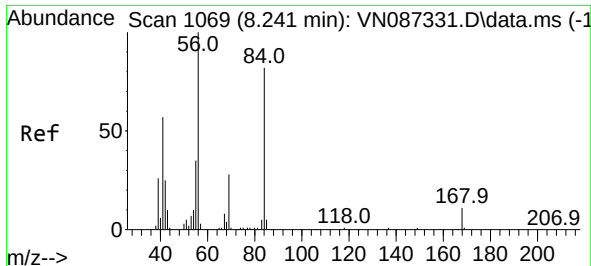
Tgt Ion: 96 Resp: 1184
Ion Ratio Lower Upper
96 100
61 89.3 122.0 183.0#
98 94.5 50.0 75.0#



#25
2-Butanone
Concen: 0.266 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 43 Resp: 888
Ion Ratio Lower Upper
43 100
72 0.0 19.6 29.4#

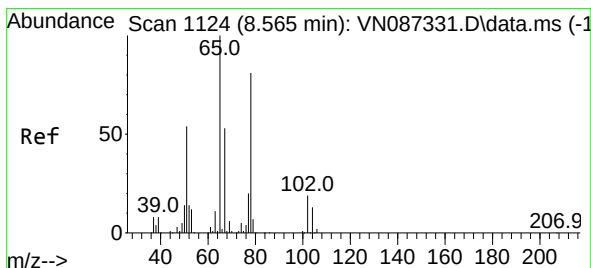
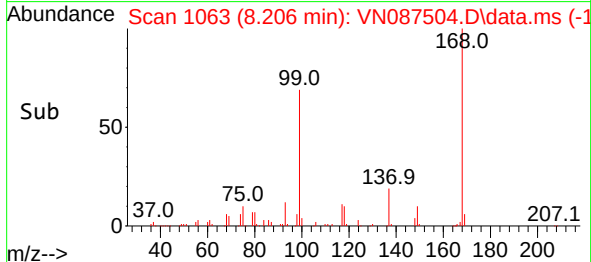
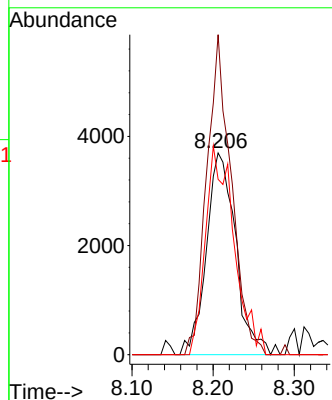
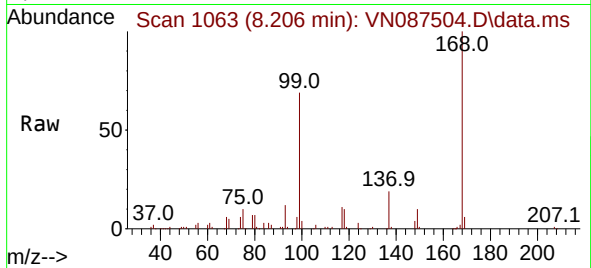




#31
Cyclohexane
Concen: 1.640 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

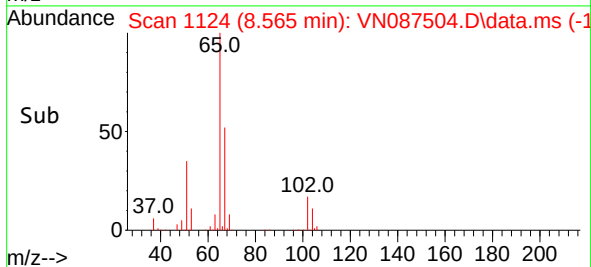
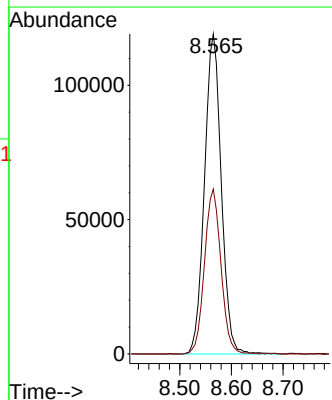
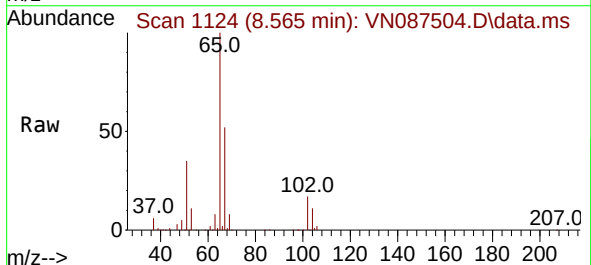
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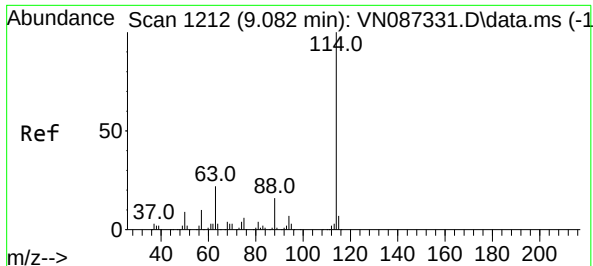
Tgt Ion: 56 Resp: 9279
Ion Ratio Lower Upper
56 100
69 158.6 22.7 34.1#
84 86.9 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 58.372 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 65 Resp: 268632
Ion Ratio Lower Upper
65 100
67 50.6 0.0 104.0

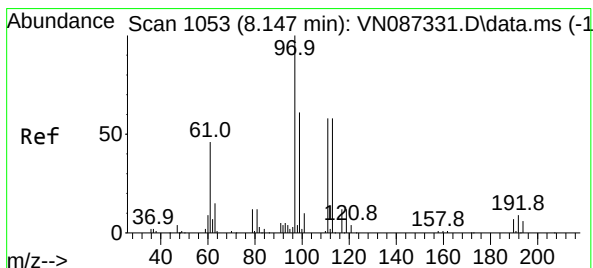
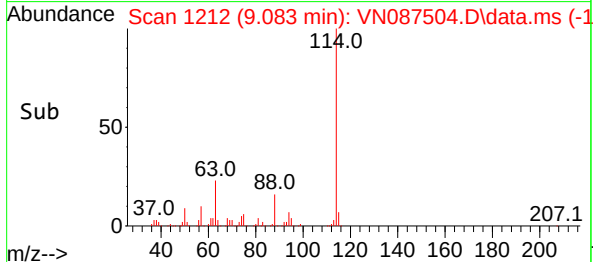
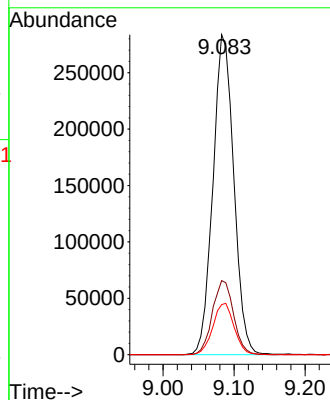
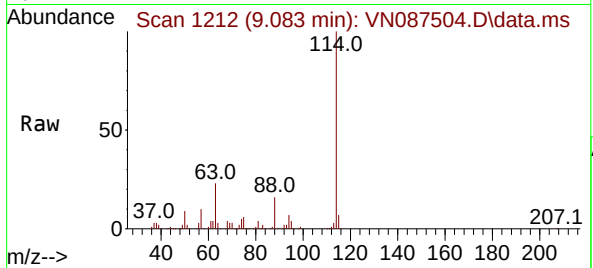




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

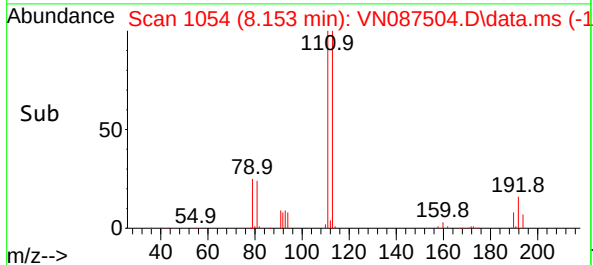
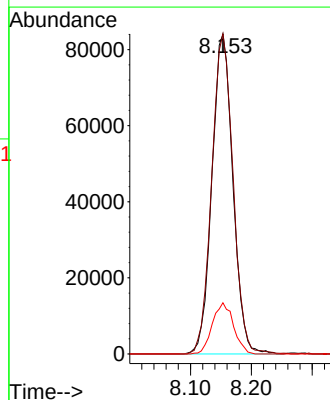
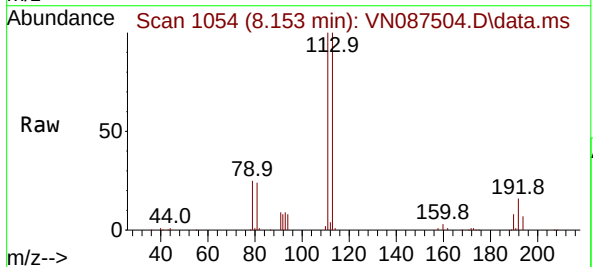
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

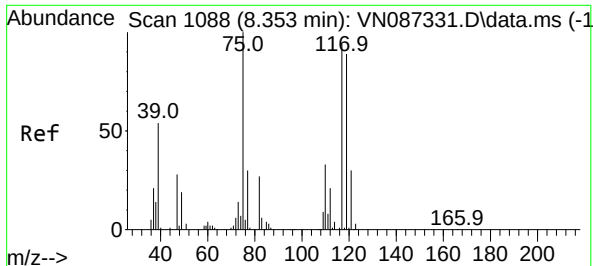
Tgt Ion:114 Resp: 578160
Ion Ratio Lower Upper
114 100
63 23.2 0.0 44.6
88 15.6 0.0 32.8



#35
Dibromofluoromethane
Concen: 50.255 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion:113 Resp: 200423
Ion Ratio Lower Upper
113 100
111 101.9 82.5 123.7
192 16.2 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.058 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087504.D

Acq: 12 Aug 2025 11:07

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBL01

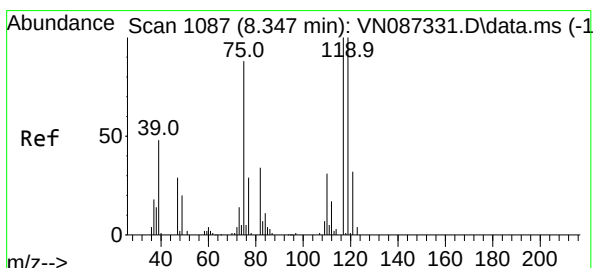
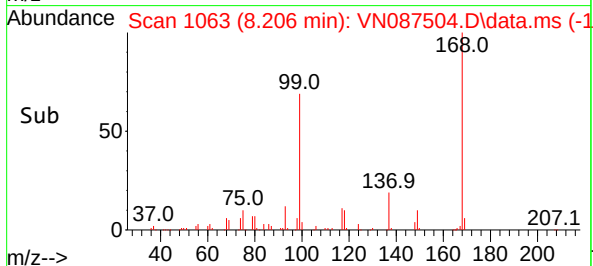
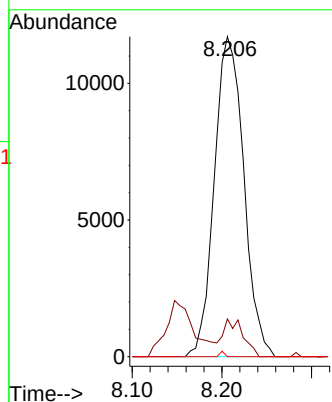
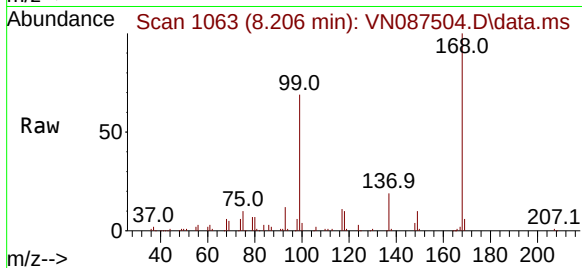
Tgt Ion: 75 Resp: 26649

Ion Ratio Lower Upper

75 100

110 7.9 16.7 50.1#

77 0.3 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.214 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.135 min

Lab File: VN087504.D

Acq: 12 Aug 2025 11:07

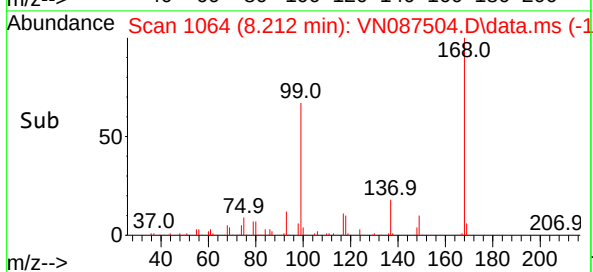
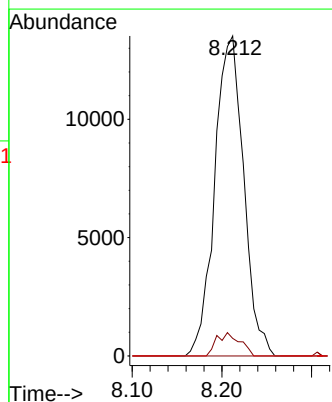
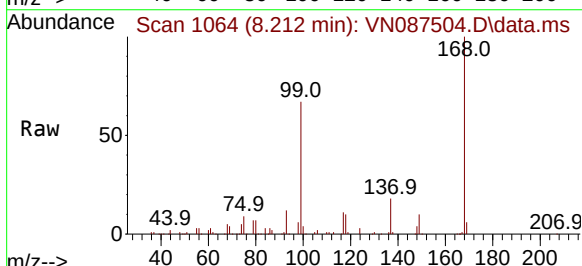
Tgt Ion: 117 Resp: 30261

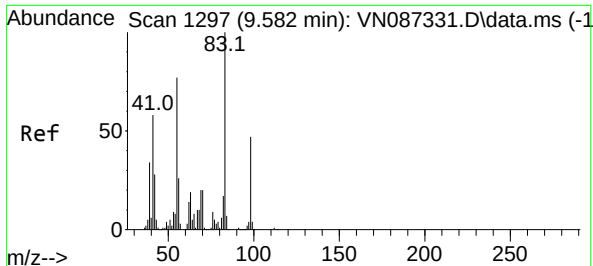
Ion Ratio Lower Upper

117 100

119 5.5 80.2 120.2#

121 0.0 25.4 38.2#





#39

Methylcyclohexane

Concen: 0.292 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087504.D

Acq: 12 Aug 2025 11:07

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBL01

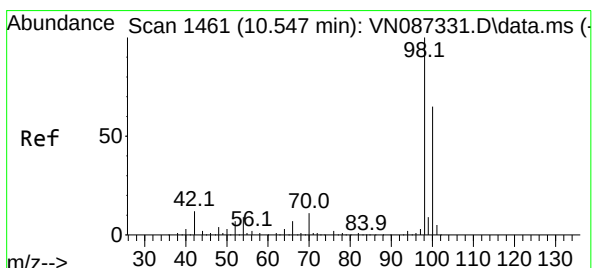
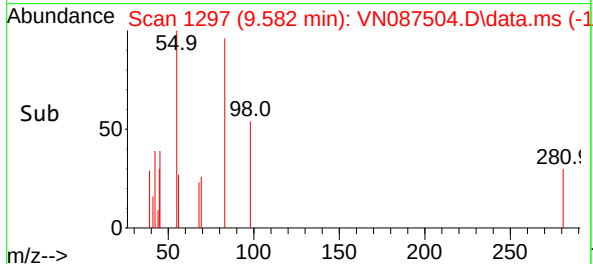
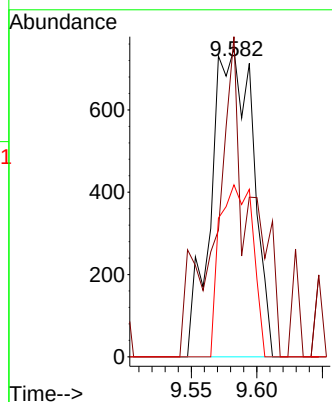
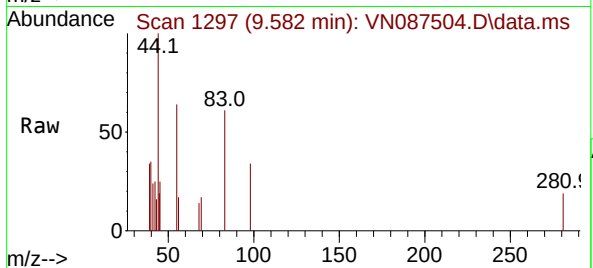
Tgt Ion: 83 Resp: 1664

Ion Ratio Lower Upper

83 100

55 104.0 61.3 91.9#

98 55.9 37.9 56.9



#50

Toluene-d8

Concen: 51.316 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087504.D

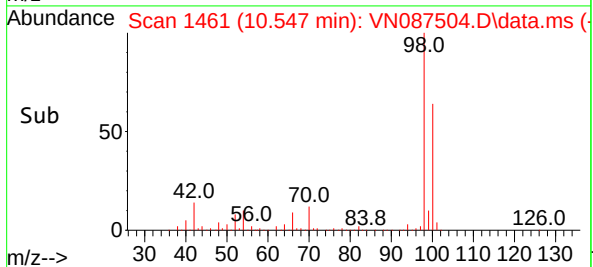
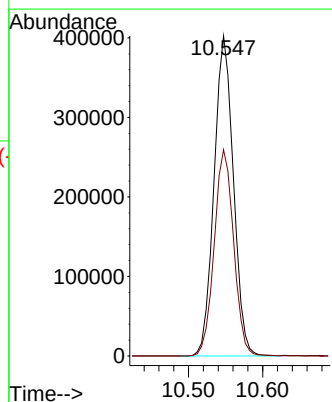
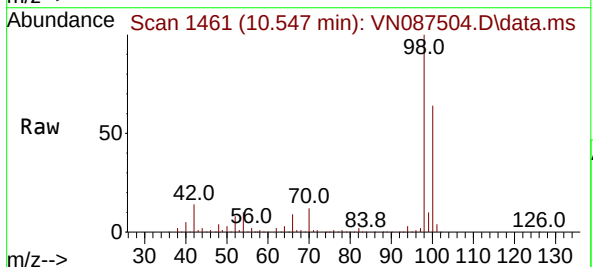
Acq: 12 Aug 2025 11:07

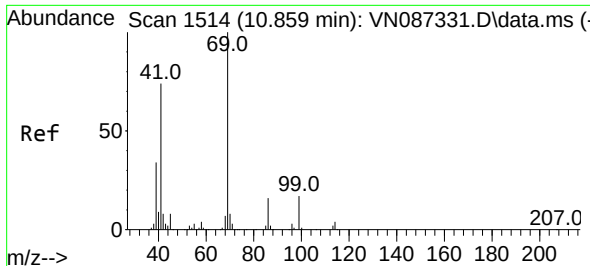
Tgt Ion: 98 Resp: 730025

Ion Ratio Lower Upper

98 100

100 64.7 52.1 78.1

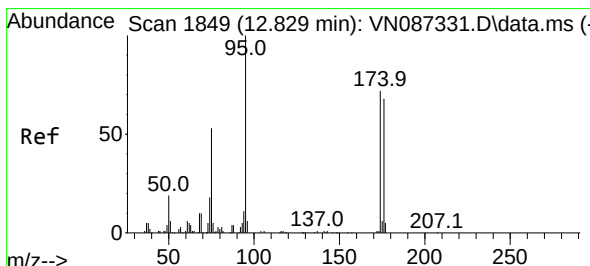
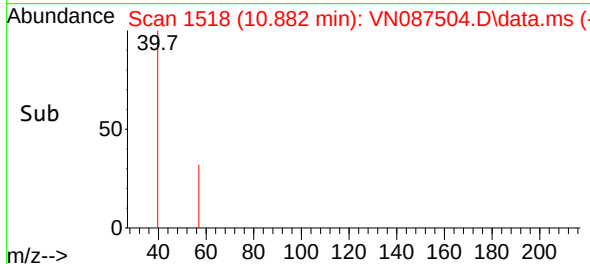
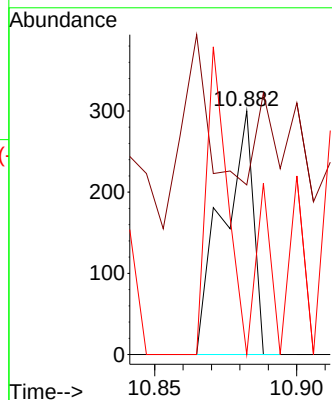
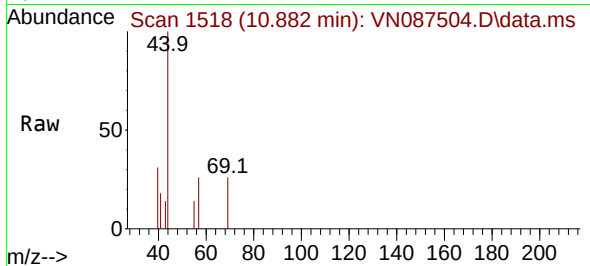




#56
Ethyl methacrylate
Concen: 0.667 ug/l
RT: 10.882 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

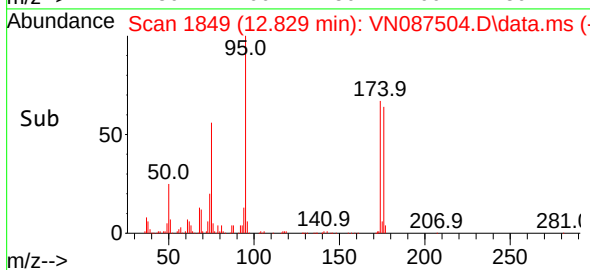
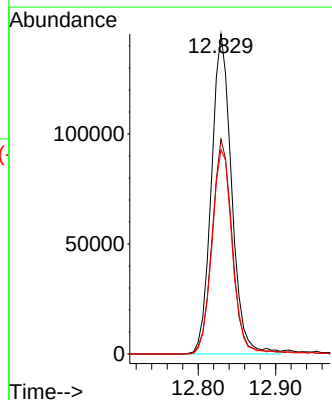
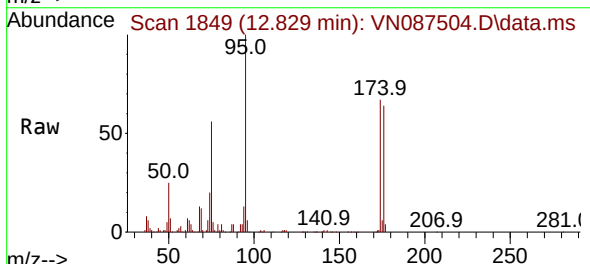
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

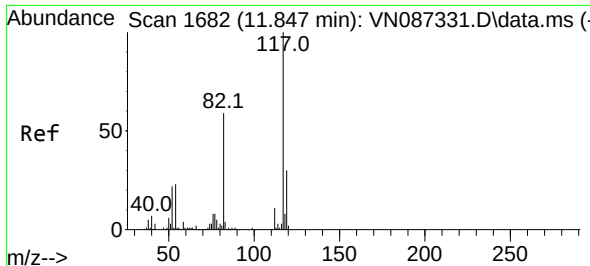
Tgt Ion: 69 Resp: 225
Ion Ratio Lower Upper
69 100
41 226.2 55.1 82.7#
39 32.9 27.9 41.9



#62
4-Bromofluorobenzene
Concen: 50.120 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 95 Resp: 263428
Ion Ratio Lower Upper
95 100
174 66.9 0.0 149.4
176 64.7 0.0 141.2

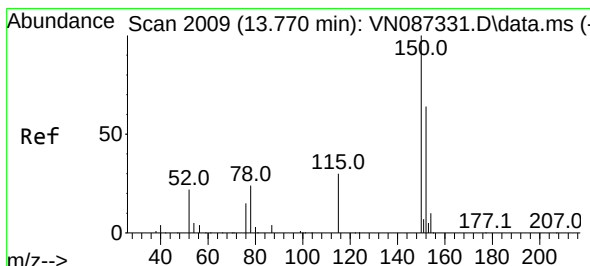
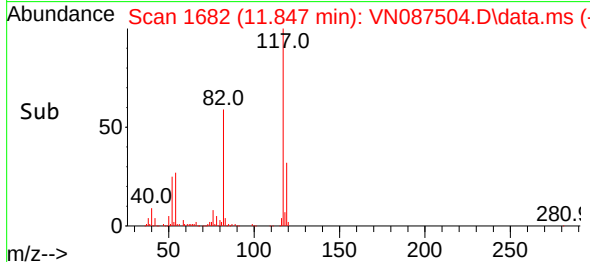
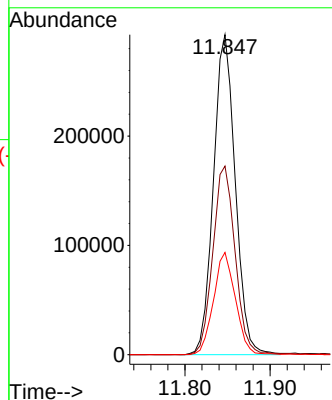
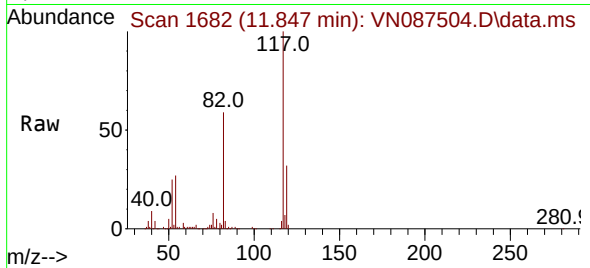




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

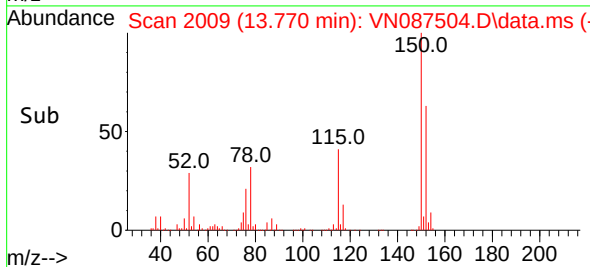
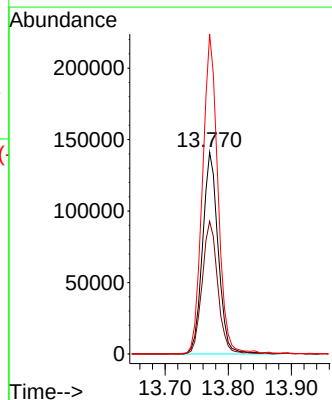
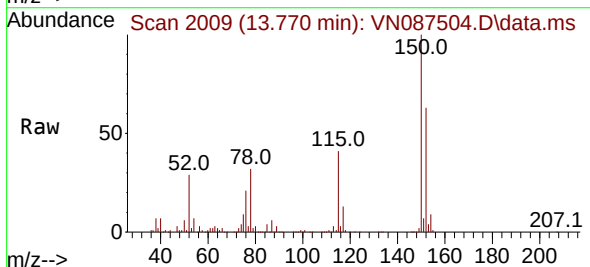
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

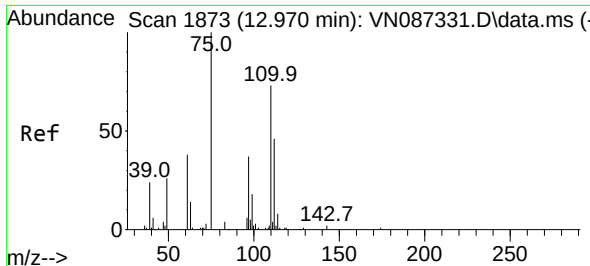
Tgt Ion:117 Resp: 521832
Ion Ratio Lower Upper
117 100
82 59.0 47.4 71.2
119 31.9 23.8 35.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion:152 Resp: 242445
Ion Ratio Lower Upper
152 100
115 66.0 31.1 93.5
150 156.6 0.0 349.0

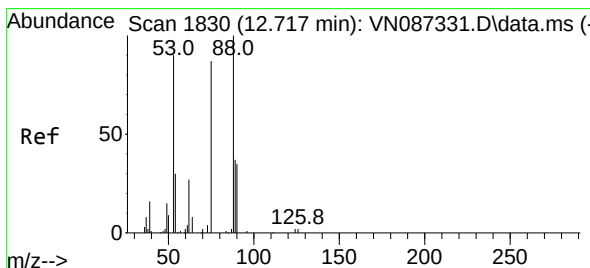
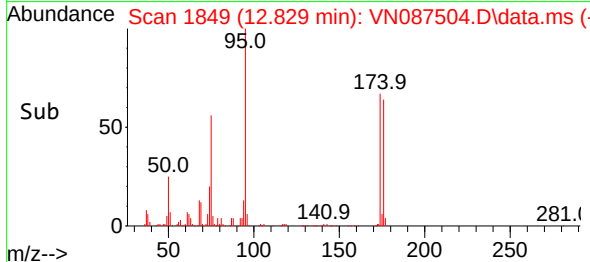
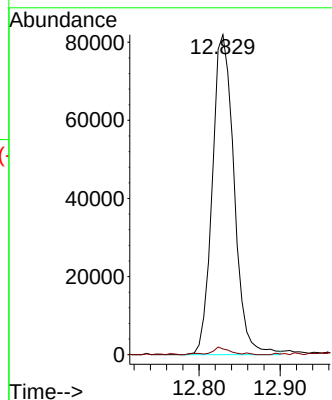
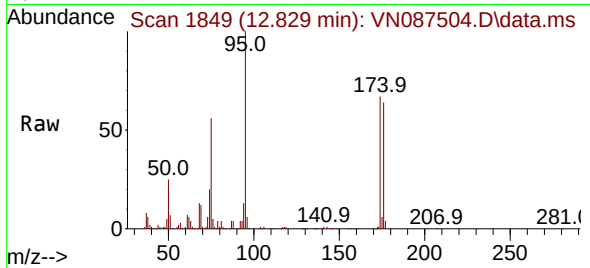




#76
1,2,3-Trichloropropane
Concen: 28.077 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

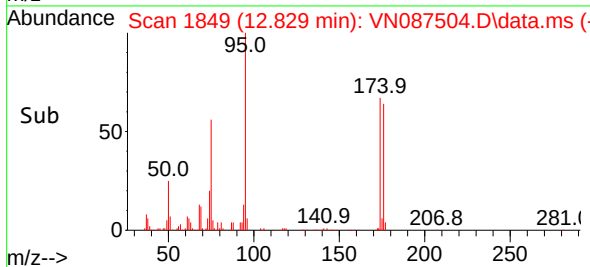
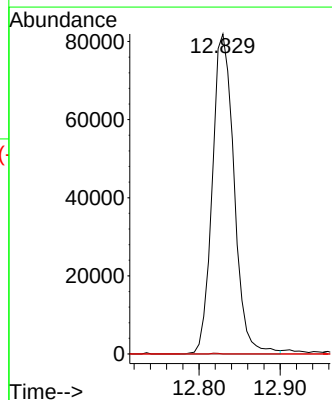
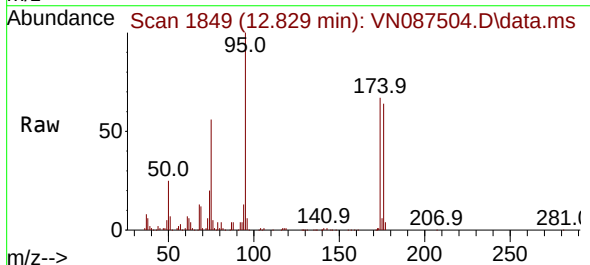
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

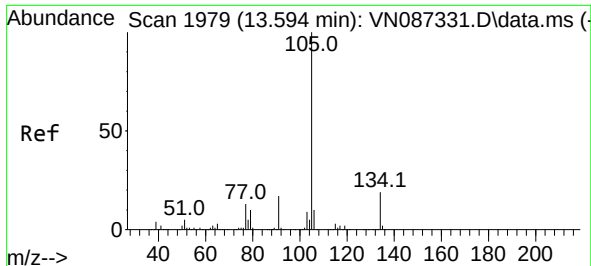
Tgt Ion: 75 Resp: 152642
Ion Ratio Lower Upper
75 100
77 2.0 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.822 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 75 Resp: 152642
Ion Ratio Lower Upper
75 100
53 0.1 83.5 125.3#
89 0.0 38.4 57.6#

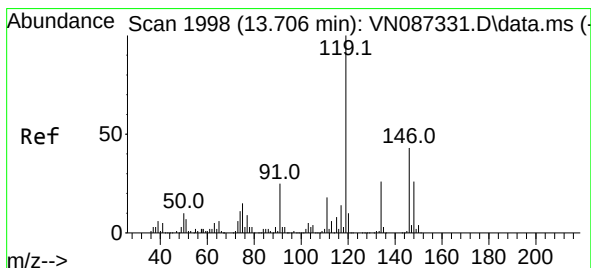
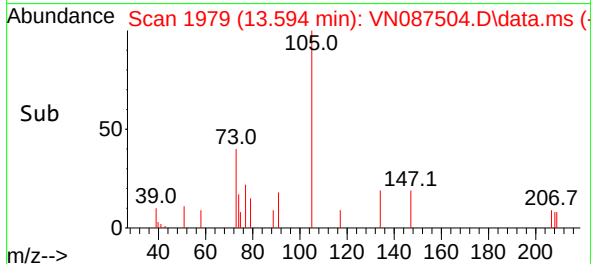
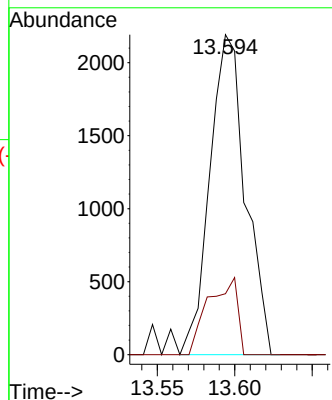
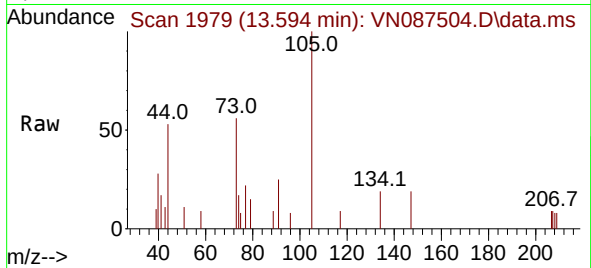




#85
 sec-Butylbenzene
 Concen: 0.214 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087504.D
 Acq: 12 Aug 2025 11:07

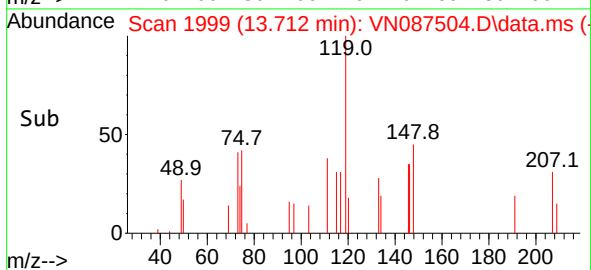
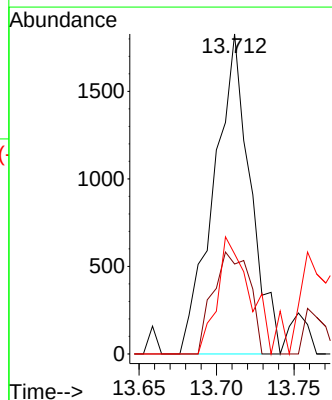
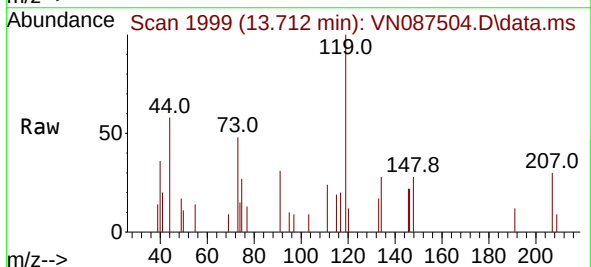
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBL01

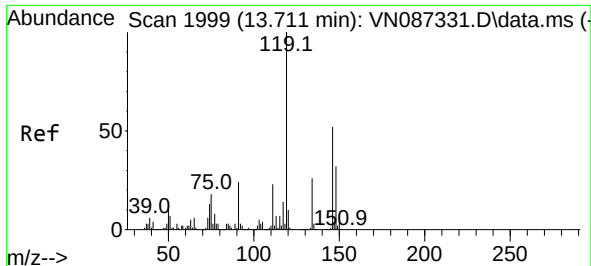
Tgt Ion:105 Resp: 3506
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 0.228 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.006 min
 Lab File: VN087504.D
 Acq: 12 Aug 2025 11:07

Tgt Ion:119 Resp: 2983
 Ion Ratio Lower Upper
 119 100
 134 31.7 13.5 40.5
 91 32.1 12.2 36.6





#87

1,3-Dichlorobenzene

Concen: 0.206 ug/l

RT: 13.706 min Scan# 1999

Delta R.T. -0.006 min

Lab File: VN087504.D

Acq: 12 Aug 2025 11:07

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBL01

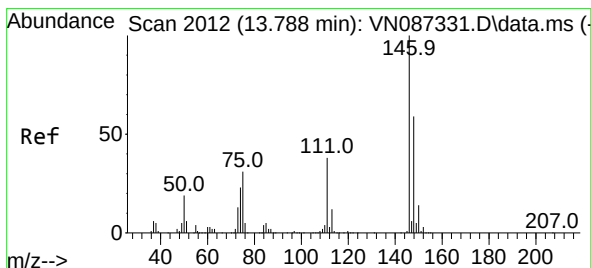
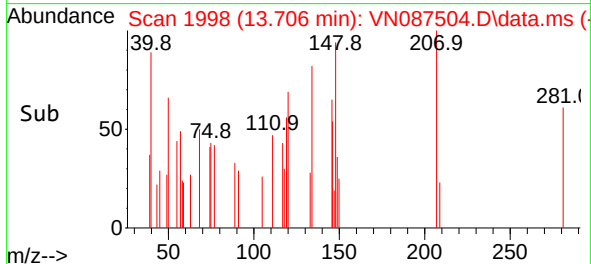
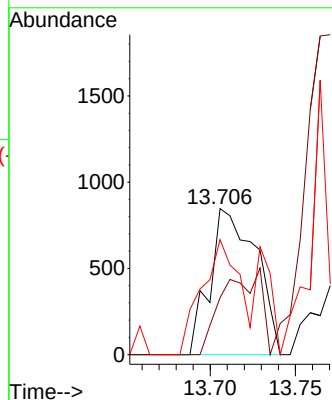
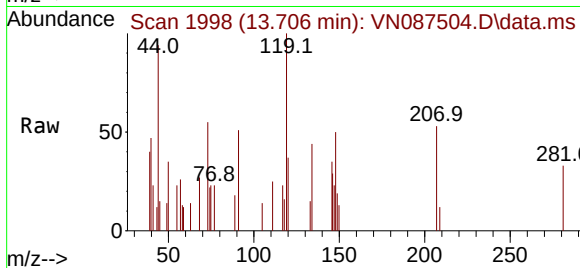
Tgt Ion:146 Resp: 1599

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.3#

148 63.7 31.6 95.0



#88

1,4-Dichlorobenzene

Concen: 0.258 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.012 min

Lab File: VN087504.D

Acq: 12 Aug 2025 11:07

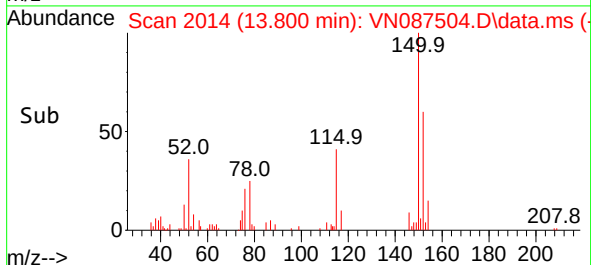
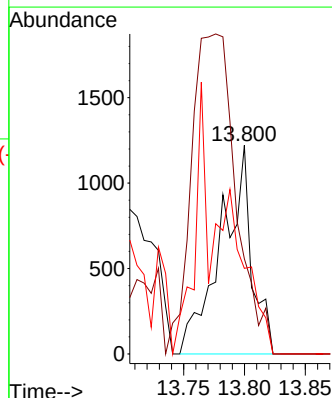
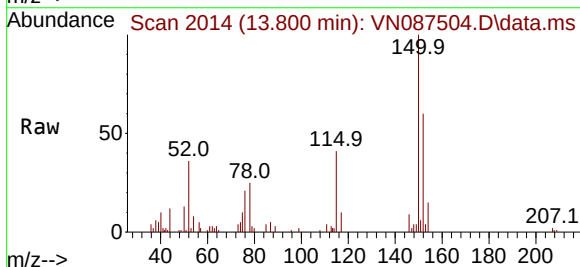
Tgt Ion:146 Resp: 2140

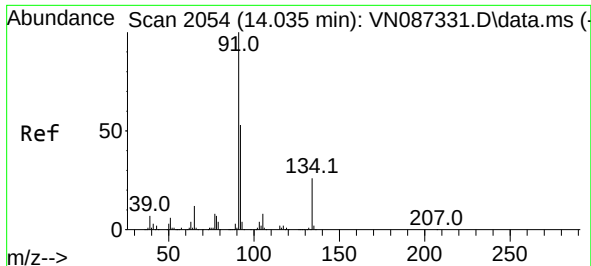
Ion Ratio Lower Upper

146 100

111 0.0 19.6 58.7#

148 0.0 31.4 94.0#

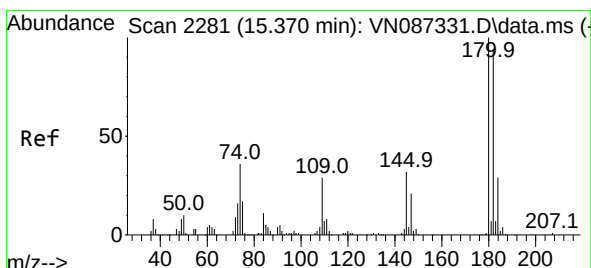
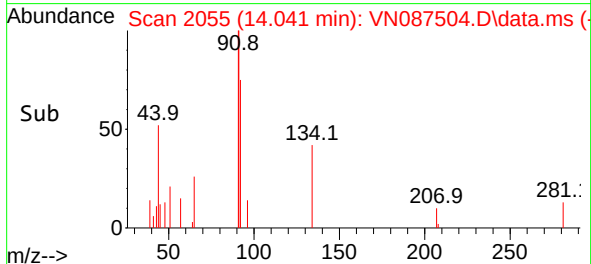
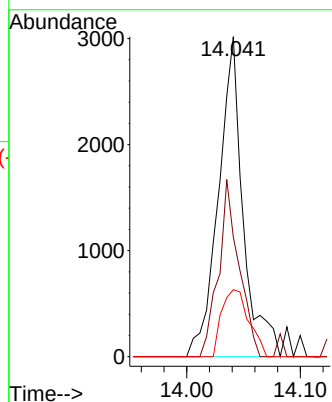
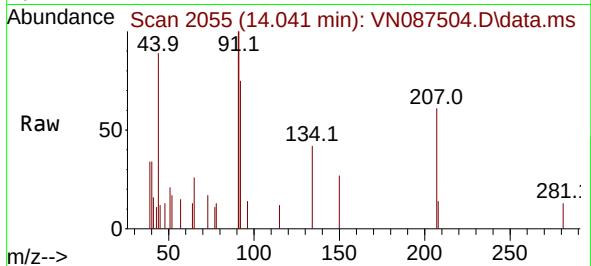




#89
n-Butylbenzene
Concen: 0.364 ug/l
RT: 14.041 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

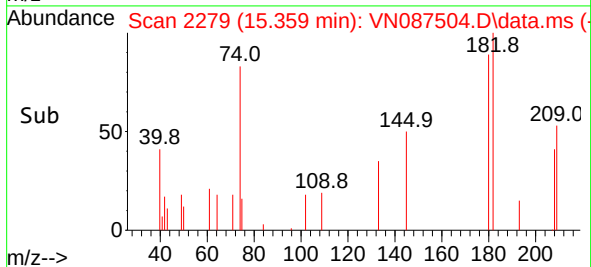
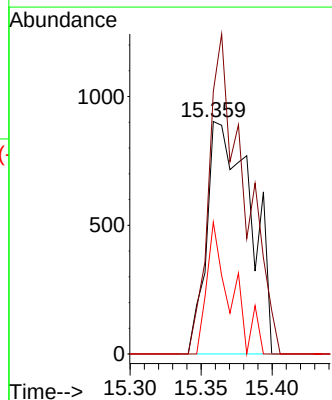
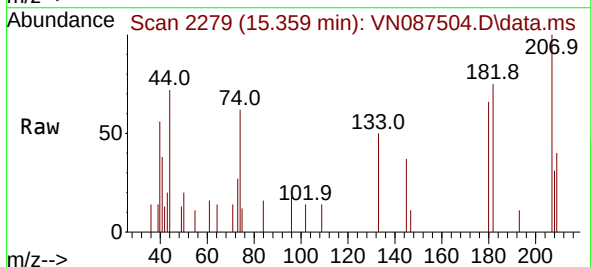
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

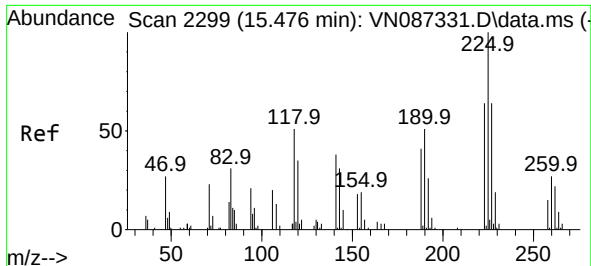
Tgt Ion: 91	Resp:	4558
Ion Ratio	Lower	Upper
91	100	
92	45.7	26.2 78.6
134	23.0	12.4 37.2



#93
1,2,4-Trichlorobenzene
Concen: 0.447 ug/l
RT: 15.359 min Scan# 2279
Delta R.T. -0.012 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion: 180	Resp:	1934
Ion Ratio	Lower	Upper
180	100	
182	111.1	47.3 141.8
145	31.0	15.4 46.4

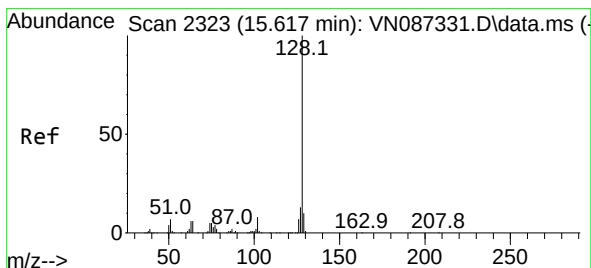
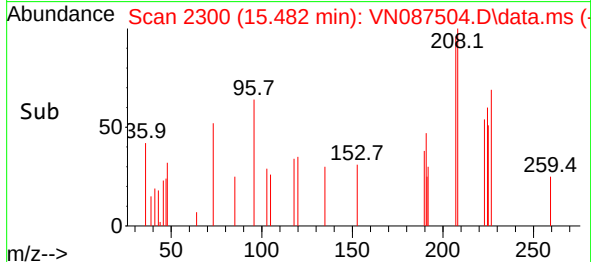
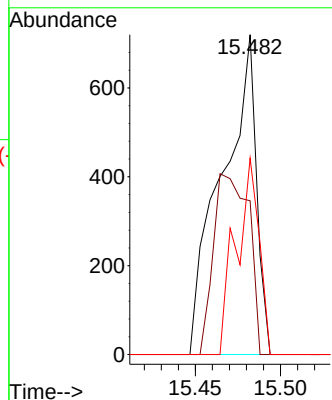
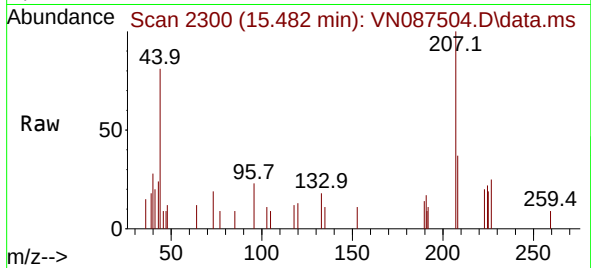




#94
Hexachlorobutadiene
Concen: 0.630 ug/l
RT: 15.482 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

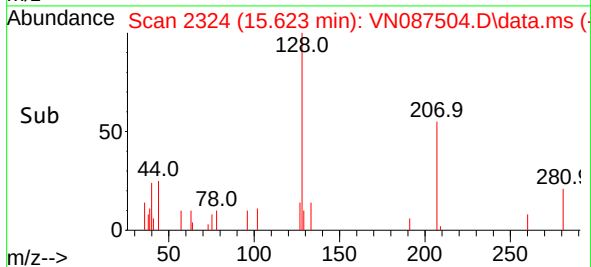
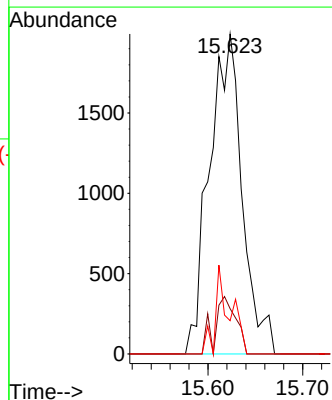
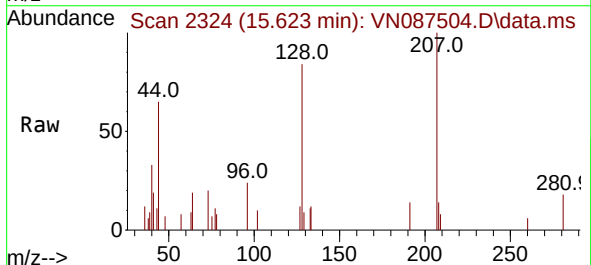
Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

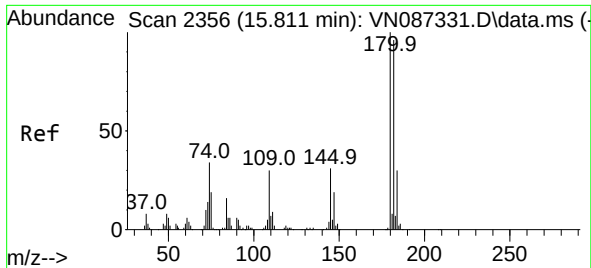
Tgt Ion:	225	Resp:	1011
Ion Ratio	Lower	Upper	
225	100		
223	57.9	32.1	96.3
227	41.2	31.3	93.9



#95
Naphthalene
Concen: 0.313 ug/l
RT: 15.623 min Scan# 2324
Delta R.T. 0.006 min
Lab File: VN087504.D
Acq: 12 Aug 2025 11:07

Tgt Ion:	128	Resp:	4795
Ion Ratio	Lower	Upper	
128	100		
127	11.7	10.5	15.7
129	12.4	8.4	12.6





#96
 1,2,3-Trichlorobenzene
 Concen: 0.417 ug/l
 RT: 15.823 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN087504.D
 Acq: 12 Aug 2025 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBL01

Tgt Ion:	180	Resp:	1806
Ion	Ratio	Lower	Upper
180	100		
182	86.5	47.1	141.4
145	21.5	16.9	50.6

