

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
 Data File : BN038125.D
 Acq On : 30 Oct 2025 16:08
 Operator : RC/JU
 Sample : Q3478-01DL 50X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Oct 30 16:52:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

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

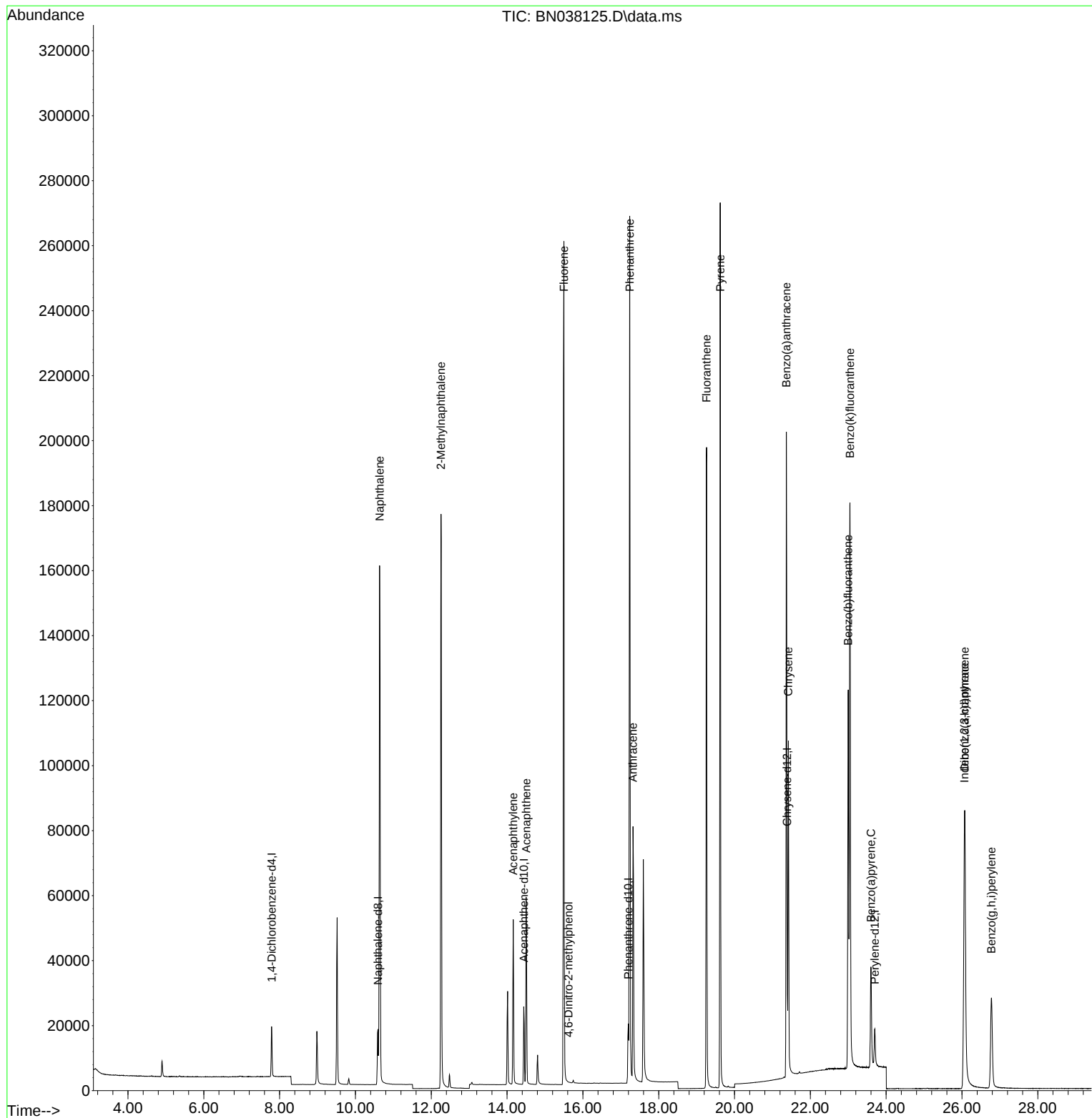
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	8055	0.400	ng	0.01
7) Naphthalene-d8	10.594	136	24698	0.400	ng	0.02
13) Acenaphthene-d10	14.441	164	13761	0.400	ng	0.01
19) Phenanthrene-d10	17.198	188	26746	0.400	ng	# 0.01
29) Chrysene-d12	21.384	240	22626	0.400	ng	0.00
35) Perylene-d12	23.701	264	17244	0.400	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	253	0.013	ng	0.00
5) Phenol-d6	6.952	99	287	0.012	ng	0.01
8) Nitrobenzene-d5	8.939	82	240	0.012	ng	0.01
11) 2-Methylnaphthalene-d10	12.187	152	242	0.007	ng	0.01
14) 2,4,6-Tribromophenol	15.945	330	35	0.006	ng	0.01
15) 2-Fluorobiphenyl	13.073	172	743	0.013	ng	0.02
27) Fluoranthene-d10	19.229	212	491	0.007	ng	0.00
31) Terphenyl-d14	19.838	244	447	0.009	ng	0.02
Target Compounds						
						Qvalue
9) Naphthalene	10.637	128	214662	3.155	ng	99
12) 2-Methylnaphthalene	12.258	142	134476	2.964	ng	99
16) Acenaphthylene	14.163	152	56554	0.907	ng	100
17) Acenaphthene	14.505	154	27373	0.628	ng	97
18) Fluorene	15.499	166	173960	3.044	ng	99
20) 4,6-Dinitro-2-methylph...	15.622	198	21	0.187	ng	# 1
25) Phenanthrene	17.235	178	268419	3.161	ng	100
26) Anthracene	17.322	178	96883	1.304	ng	99
28) Fluoranthene	19.262	202	186392	1.965	ng	99
30) Pyrene	19.624	202	243661	2.386	ng	100
32) Benzo(a)anthracene	21.366	228	164997	2.044	ng	99
33) Chrysene	21.420	228	93681	1.069	ng	99
36) Indeno(1,2,3-cd)pyrene	26.063	276	89161	1.258	ng	93
37) Benzo(b)fluoranthene	22.999	252	147788	2.005	ng	# 91
38) Benzo(k)fluoranthene	23.046	252	244185	3.291	ng	# 89
39) Benzo(a)pyrene	23.598	252	52623	0.892	ng	# 90
40) Dibenzo(a,h)anthracene	26.075	278	116233	2.132	ng	92
41) Benzo(g,h,i)perylene	26.776	276	63812	1.025	ng	98

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

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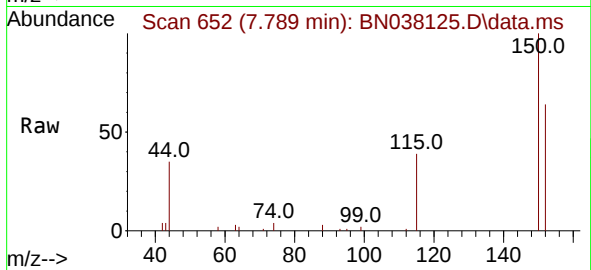
Quant Time: Oct 30 16:52:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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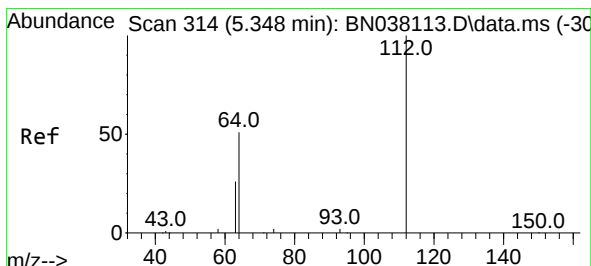
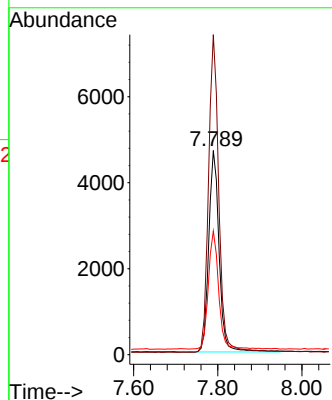
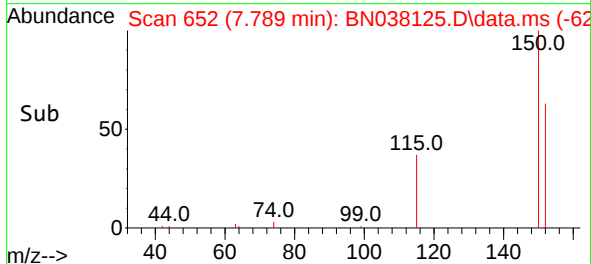


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.789 min Scan# 61
 Delta R.T. 0.014 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Instrument :
 BNA_N
 ClientSampleId :

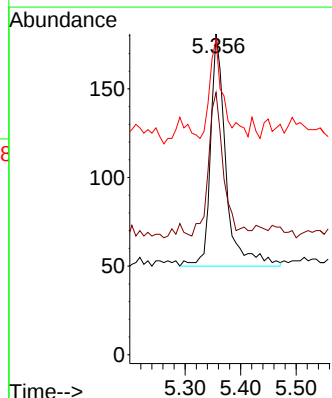
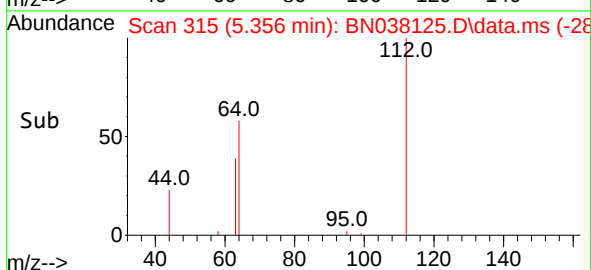
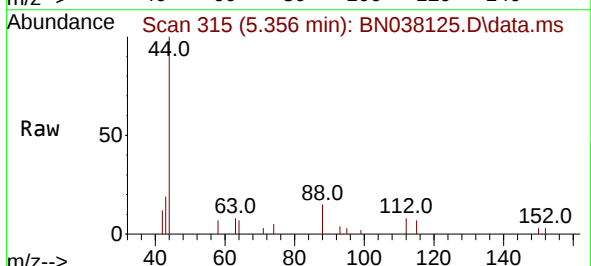


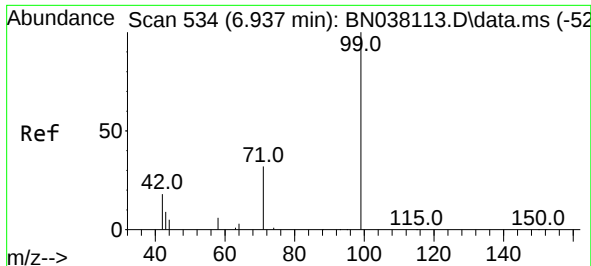
Tgt Ion:152 Resp: 8055
 Ion Ratio Lower Upper
 152 100
 150 156.7 122.3 183.5
 115 60.6 47.4 71.0



#4
 2-Fluorophenol
 Concen: 0.013 ng
 RT: 5.356 min Scan# 315
 Delta R.T. 0.007 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Tgt Ion:112 Resp: 253
 Ion Ratio Lower Upper
 112 100
 64 60.9 45.4 68.0
 63 37.9 23.2 34.8#

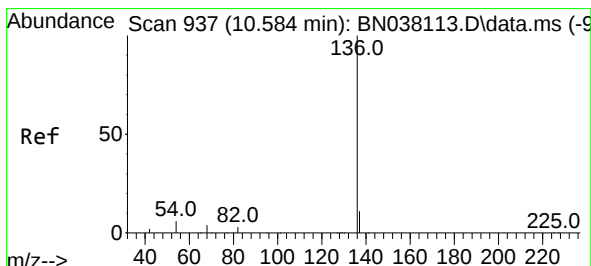
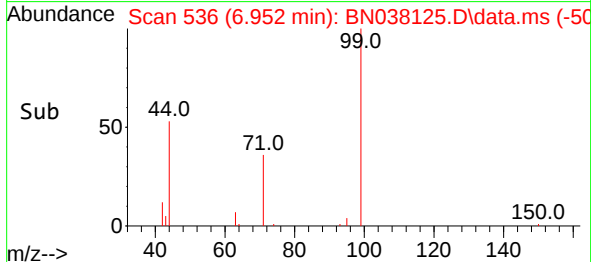
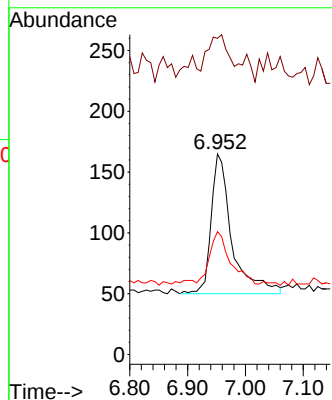
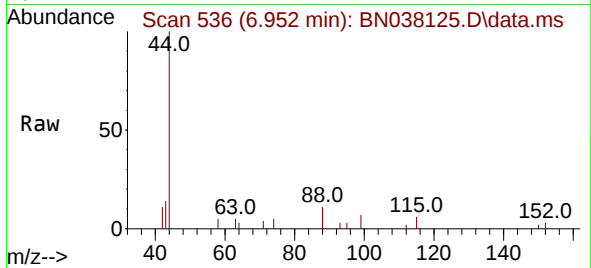




#5
Phenol-d6
Concen: 0.012 ng
RT: 6.952 min Scan# 51
Delta R.T. 0.014 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

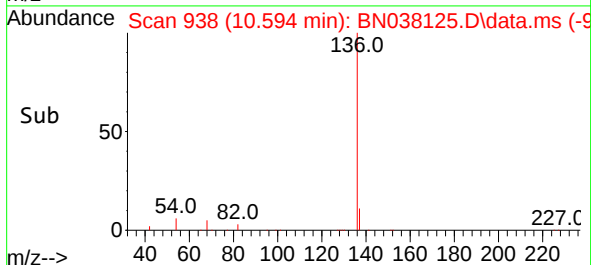
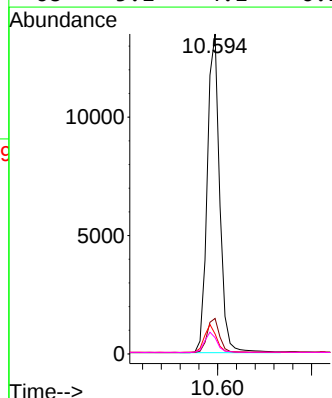
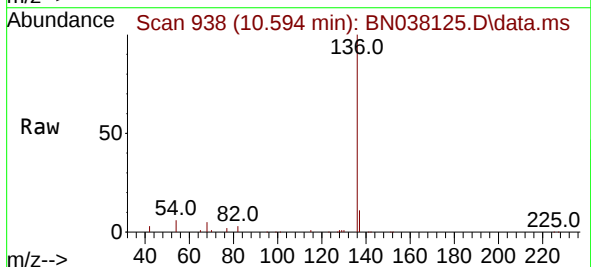
Instrument :
BNA_N
ClientSampleId :

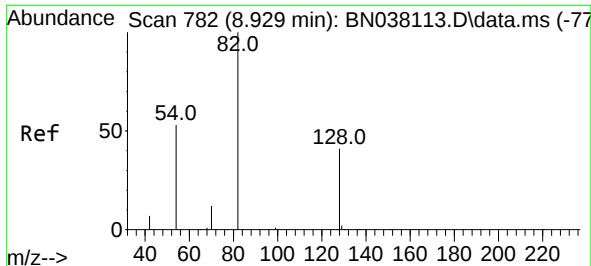
Tgt Ion: 99 Resp: 287
Ion Ratio Lower Upper
99 100
42 33.8 16.6 24.8#
71 36.2 25.4 38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.594 min Scan# 938
Delta R.T. 0.021 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion: 136 Resp: 24698
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.4
54 6.3 5.2 7.8
68 5.1 4.1 6.1

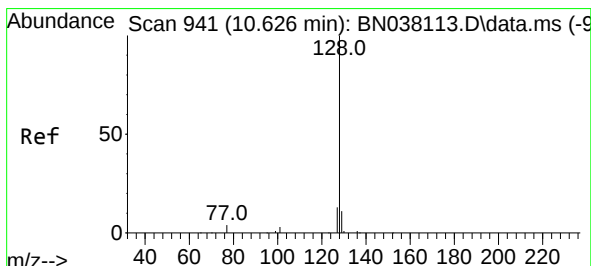
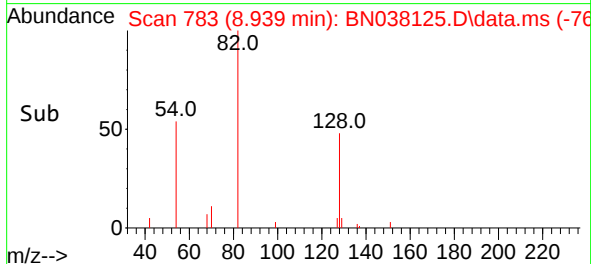
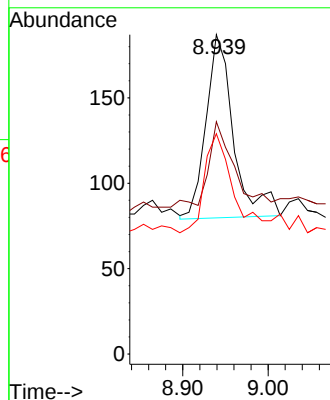
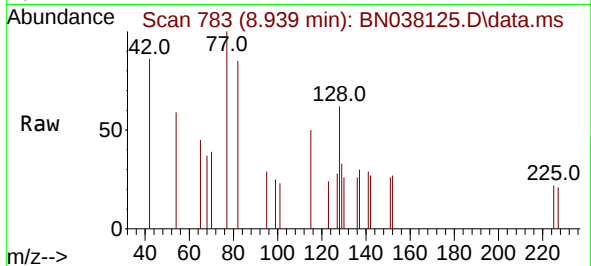




#8
Nitrobenzene-d5
Concen: 0.012 ng
RT: 8.939 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

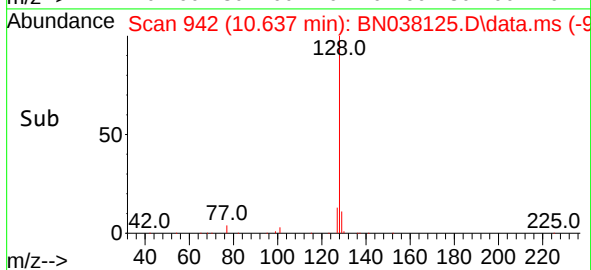
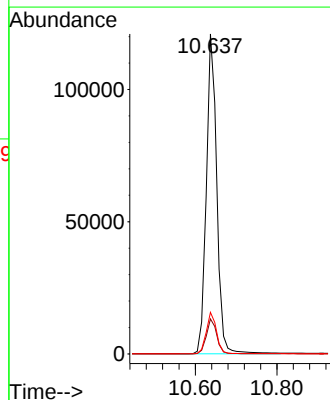
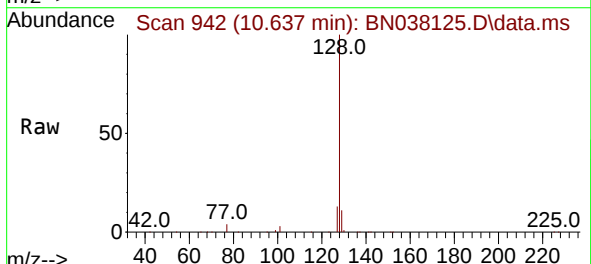
Instrument :
BNA_N
ClientSampleId :

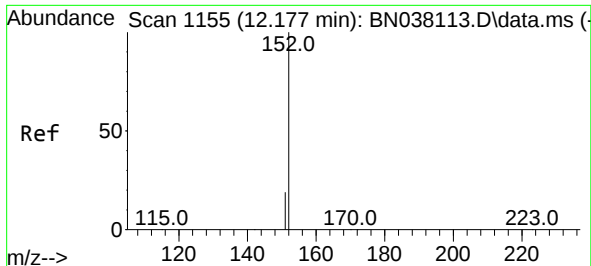
Tgt Ion: 82 Resp: 240
Ion Ratio Lower Upper
82 100
128 72.7 34.1 51.1#
54 69.0 43.5 65.3#



#9
Naphthalene
Concen: 3.155 ng
RT: 10.637 min Scan# 942
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:128 Resp: 214662
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 13.0 10.5 15.7

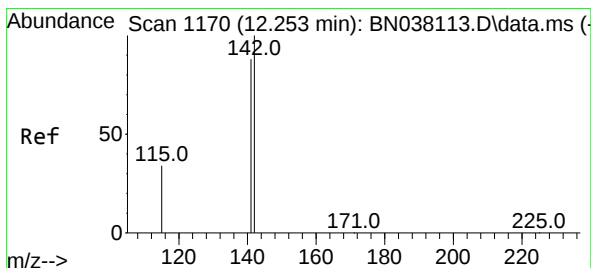
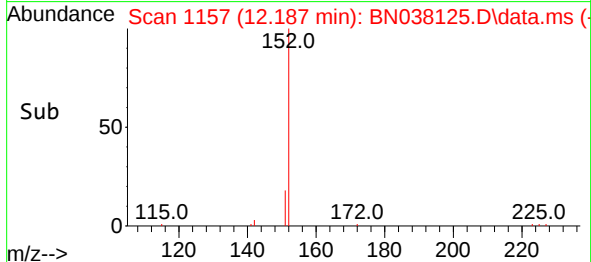
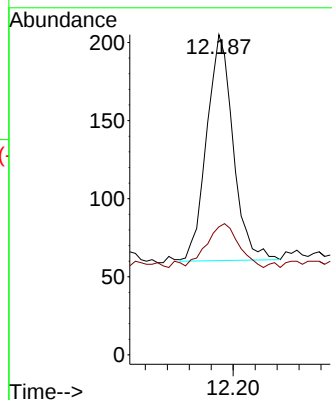
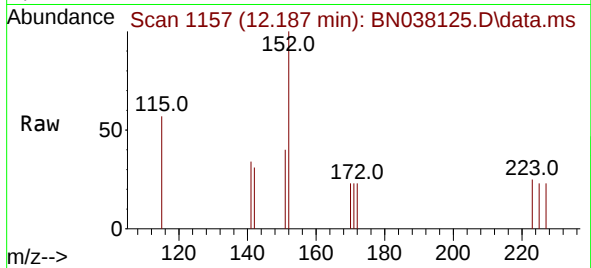




#11
2-Methylnaphthalene-d10
Concen: 0.007 ng
RT: 12.187 min Scan# 1155
Delta R.T. 0.010 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

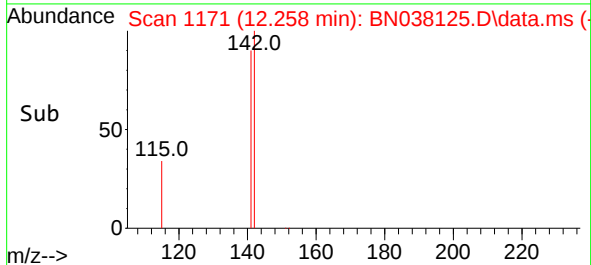
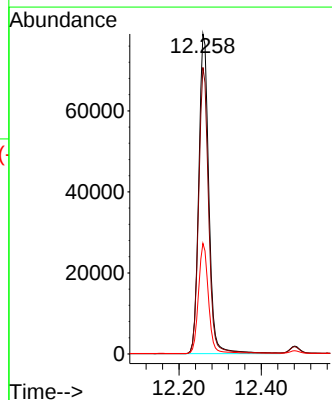
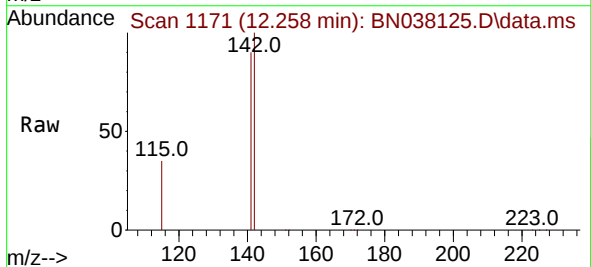
Instrument :
BNA_N
ClientSampleId :

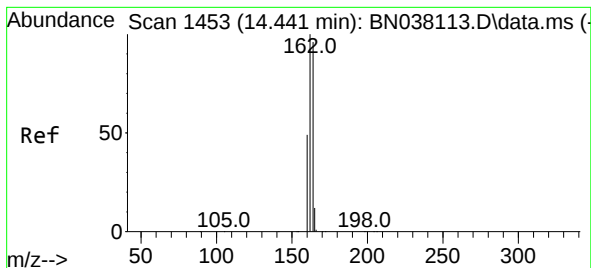
Tgt Ion:152 Resp: 242
Ion Ratio Lower Upper
152 100
151 24.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 2.964 ng
RT: 12.258 min Scan# 1171
Delta R.T. 0.010 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:142 Resp: 134476
Ion Ratio Lower Upper
142 100
141 89.5 70.3 105.5
115 34.6 27.8 41.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.441 min Scan# 1453

Delta R.T. 0.011 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BN038125.D

ClientSampleId :

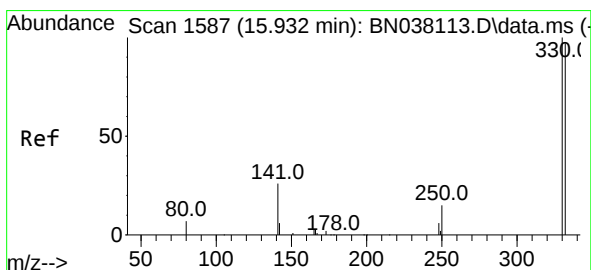
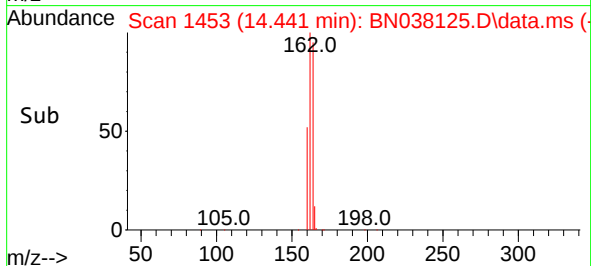
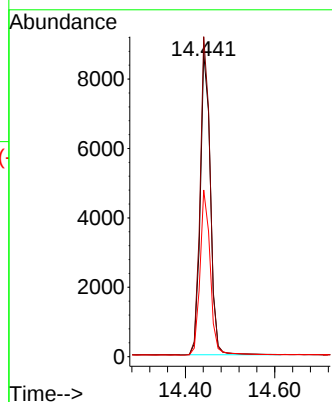
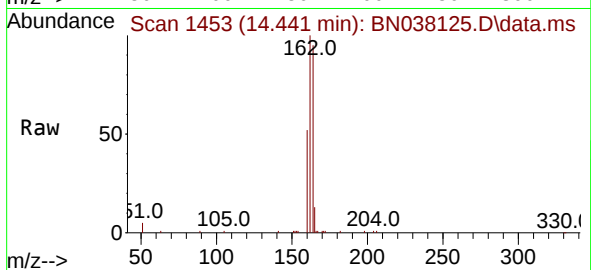
Tgt Ion:164 Resp: 13761

Ion Ratio Lower Upper

164 100

162 105.3 83.0 124.4

160 54.9 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.006 ng

RT: 15.945 min Scan# 1588

Delta R.T. 0.013 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

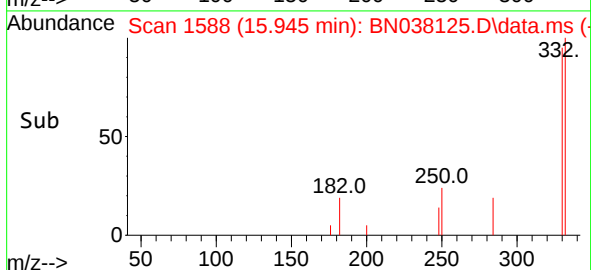
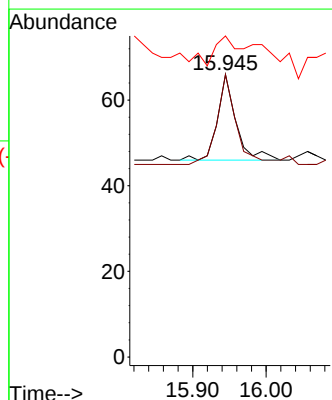
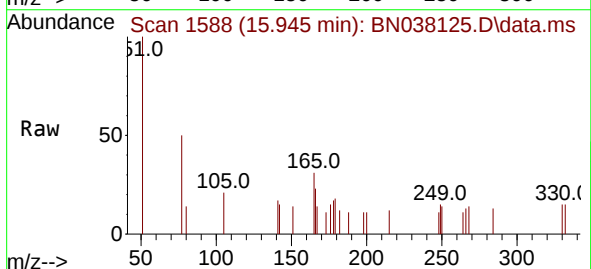
Tgt Ion:330 Resp: 35

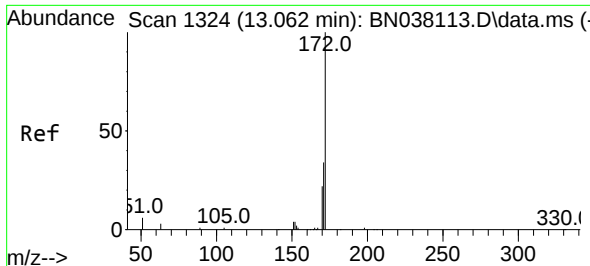
Ion Ratio Lower Upper

330 100

332 108.6 76.6 114.8

141 42.9 34.1 51.1

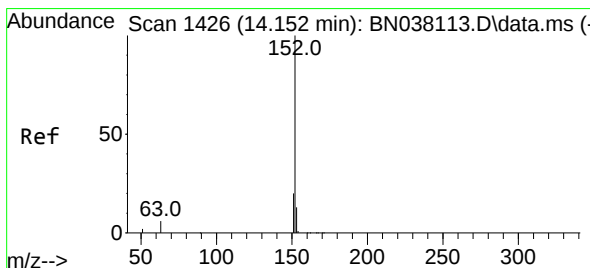
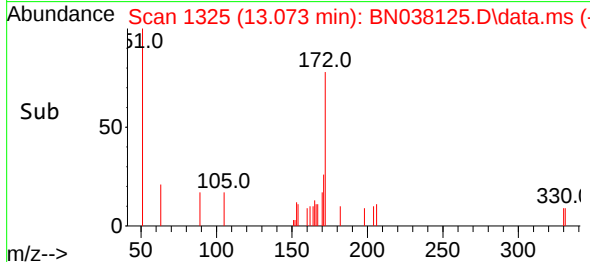
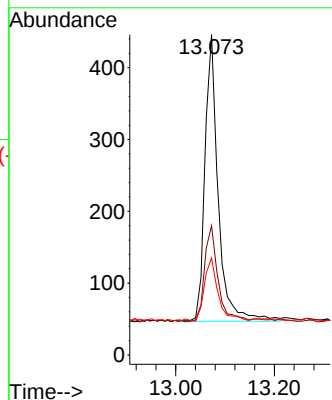
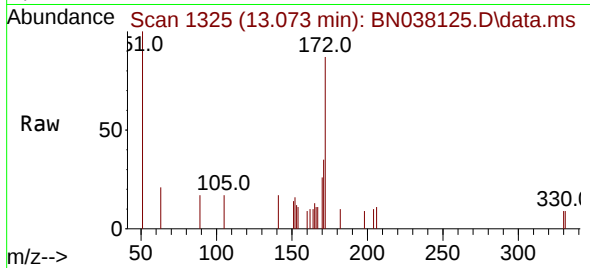




#15
2-Fluorobiphenyl
Concen: 0.013 ng
RT: 13.073 min Scan# 1325
Delta R.T. 0.021 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

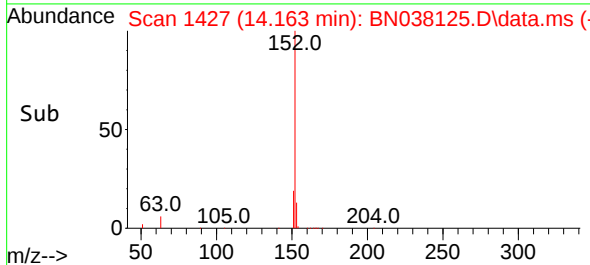
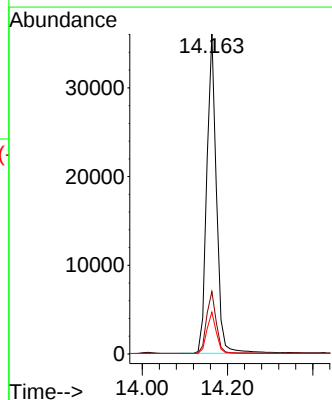
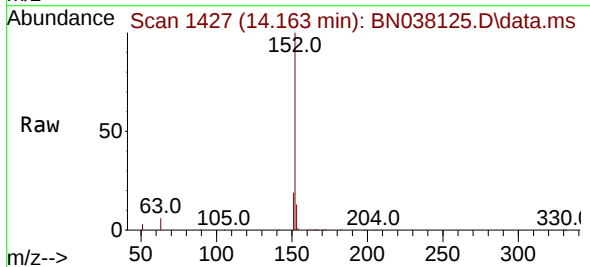
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BNA_N
ClientSampleId :

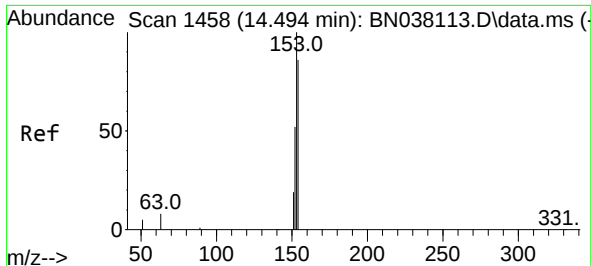
Tgt Ion:172 Resp: 743
Ion Ratio Lower Upper
172 100
171 40.4 27.8 41.6
170 30.3 18.1 27.1#



#16
Acenaphthylene
Concen: 0.907 ng
RT: 14.163 min Scan# 1427
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:152 Resp: 56554
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 12.9 10.2 15.2

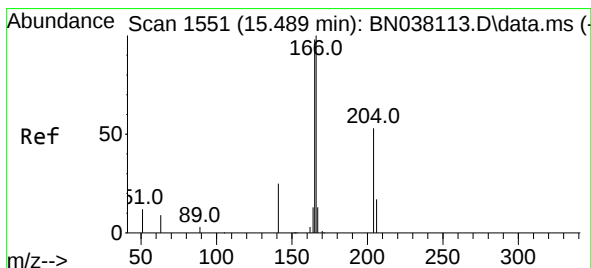
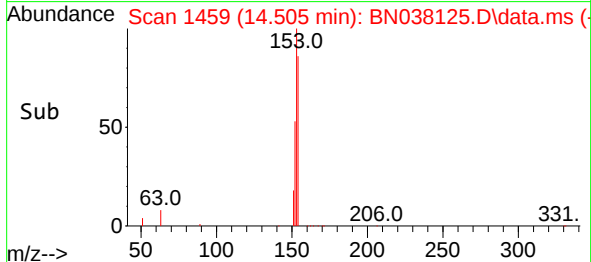
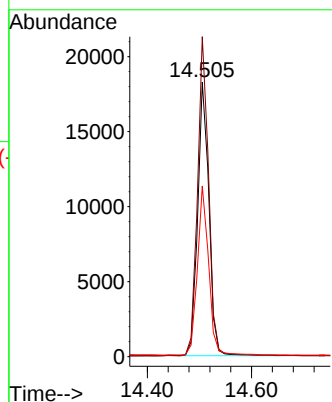
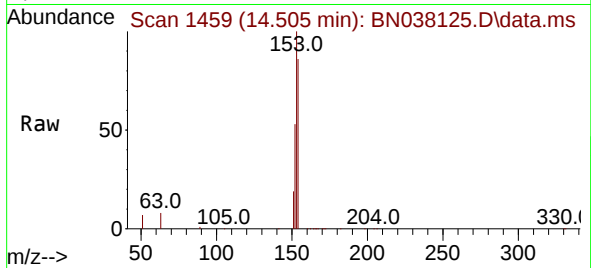




#17
Acenaphthene
Concen: 0.628 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

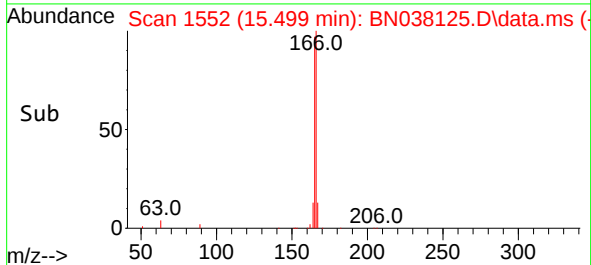
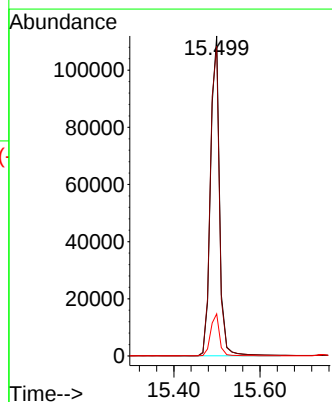
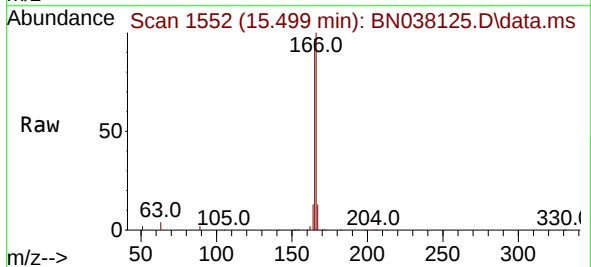
Instrument :
BNA_N
ClientSampleId :

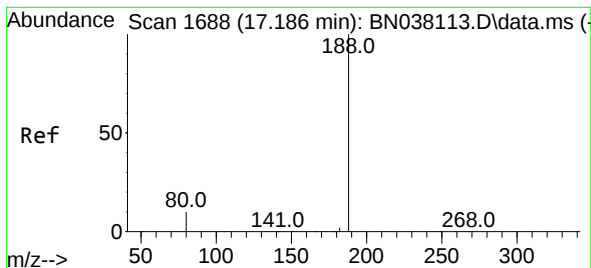
Tgt Ion:154 Resp: 27373
Ion Ratio Lower Upper
154 100
153 116.0 90.0 135.0
152 61.6 47.3 70.9



#18
Fluorene
Concen: 3.044 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.010 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:166 Resp: 173960
Ion Ratio Lower Upper
166 100
165 100.2 79.0 118.4
167 13.0 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.198 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

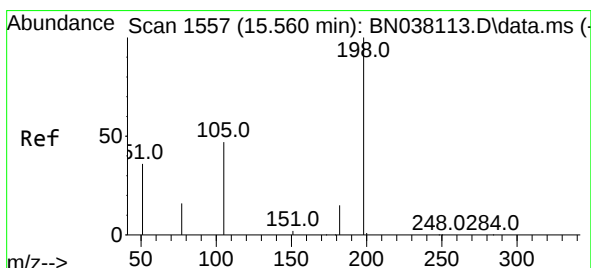
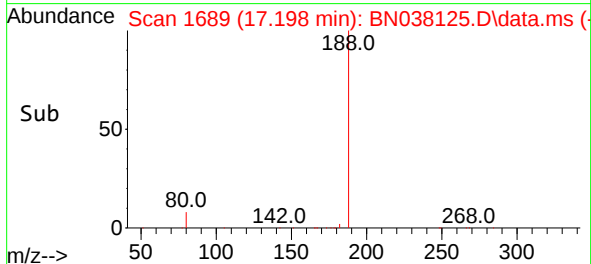
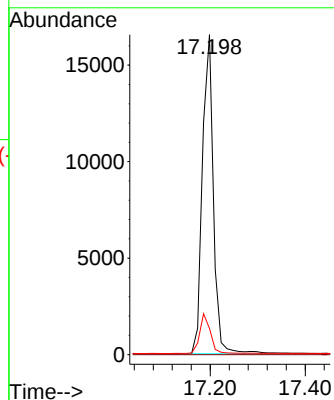
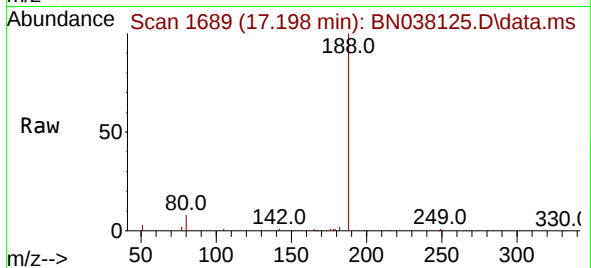
Tgt Ion:188 Resp: 26746

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 8.6 13.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.187 ng

RT: 15.622 min Scan# 1562

Delta R.T. 0.062 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

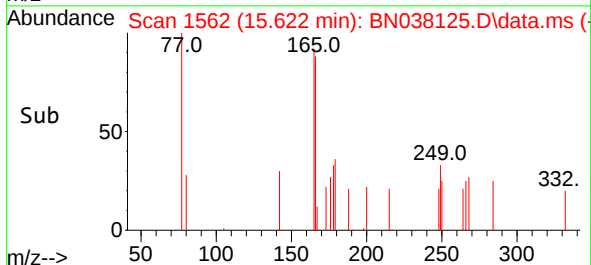
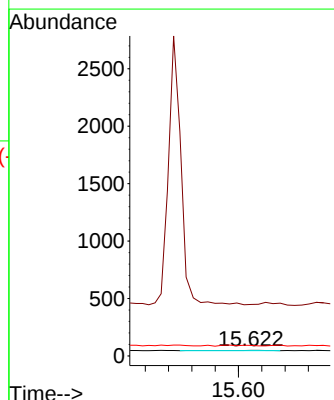
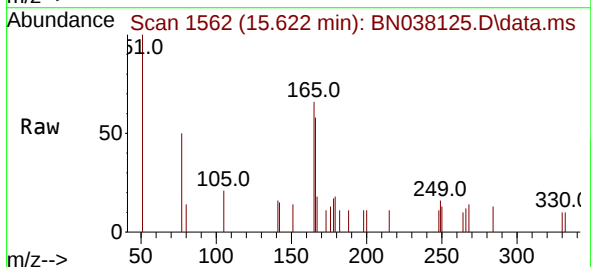
Tgt Ion:198 Resp: 21

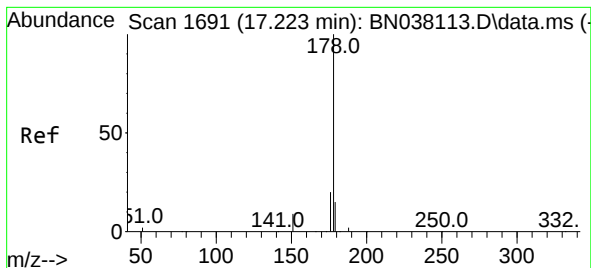
Ion Ratio Lower Upper

198 100

51 933.3 88.9 133.3#

105 191.7 49.2 73.8#





#25

Phenanthrene

Concen: 3.161 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.012 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

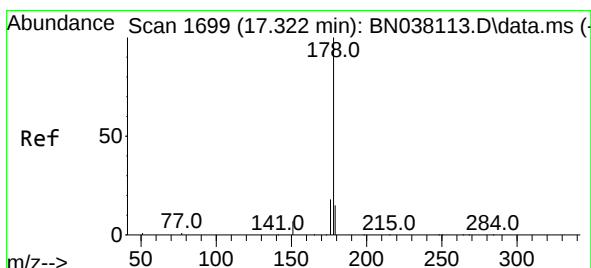
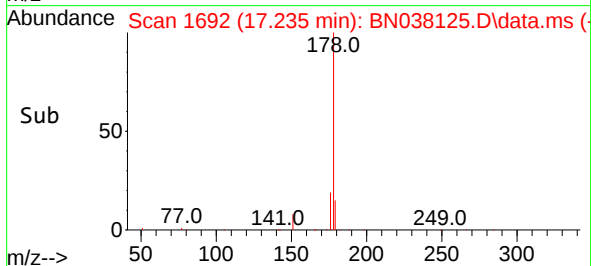
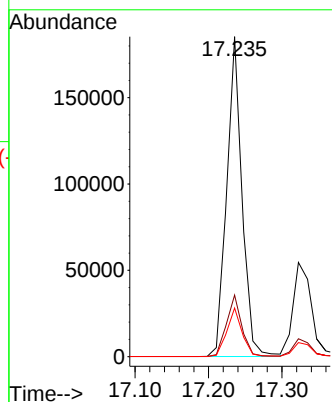
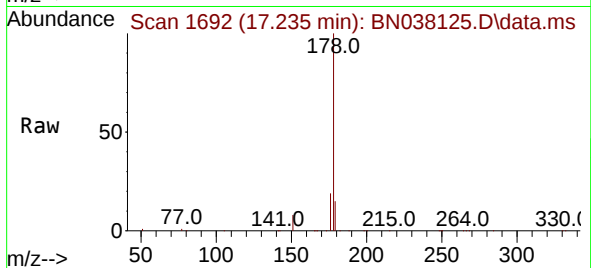
Tgt Ion:178 Resp: 268419

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.2 12.2 18.4



#26

Anthracene

Concen: 1.304 ng

RT: 17.322 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

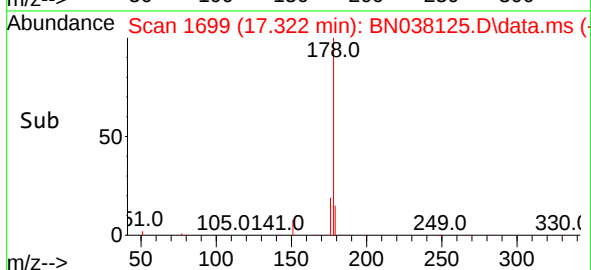
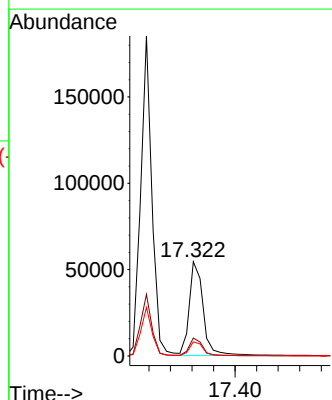
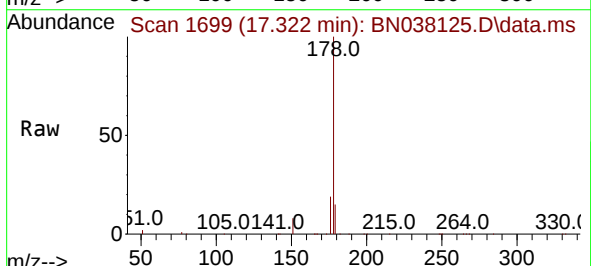
Tgt Ion:178 Resp: 96883

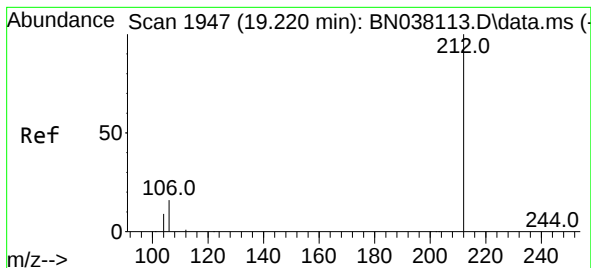
Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

179 15.1 11.8 17.8

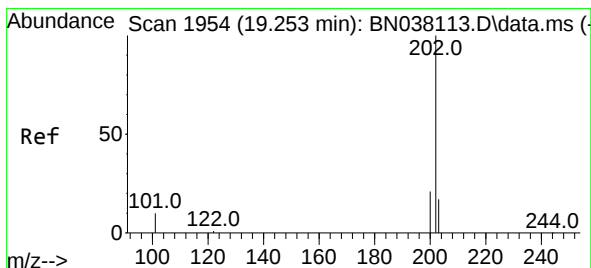
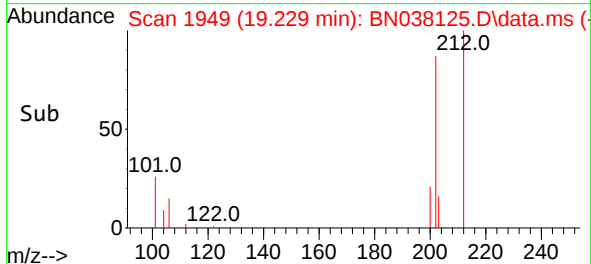
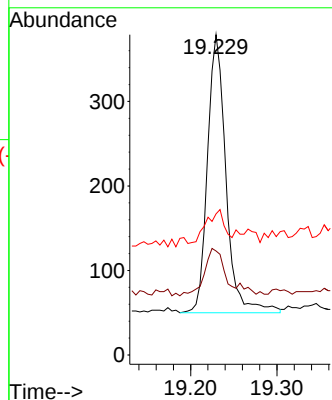
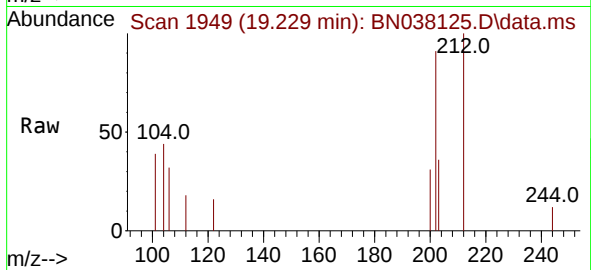




#27
Fluoranthene-d10
Concen: 0.007 ng
RT: 19.229 min Scan# 1949
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

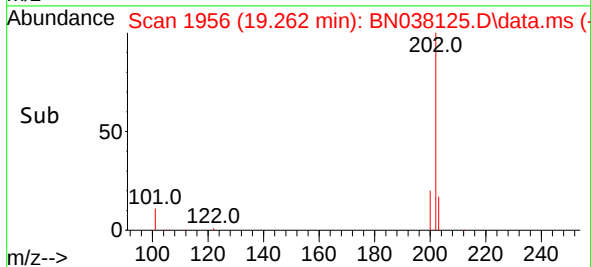
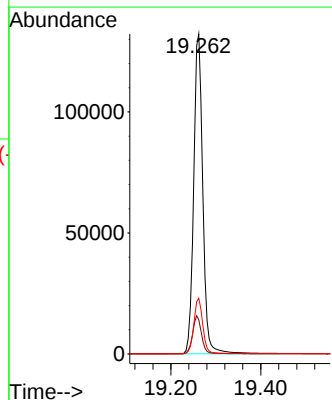
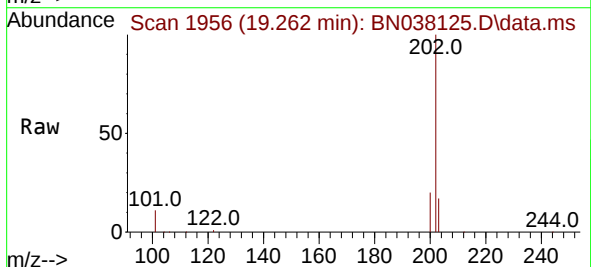
Instrument :
BNA_N
ClientSampleId :

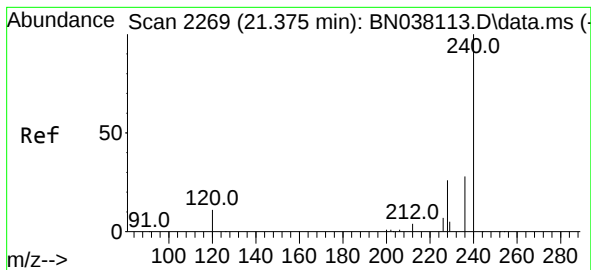
Tgt Ion:212 Resp: 491
Ion Ratio Lower Upper
212 100
106 18.1 12.6 19.0
104 11.8 7.1 10.7#



#28
Fluoranthene
Concen: 1.965 ng
RT: 19.262 min Scan# 1956
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:202 Resp: 186392
Ion Ratio Lower Upper
202 100
101 11.5 9.4 14.2
203 17.1 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038125.D

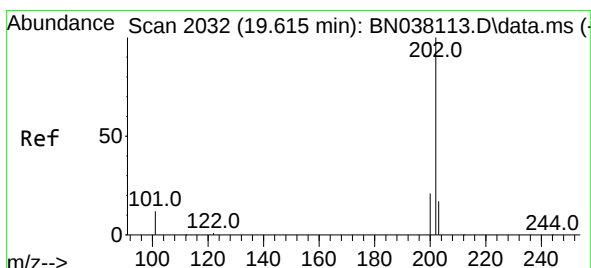
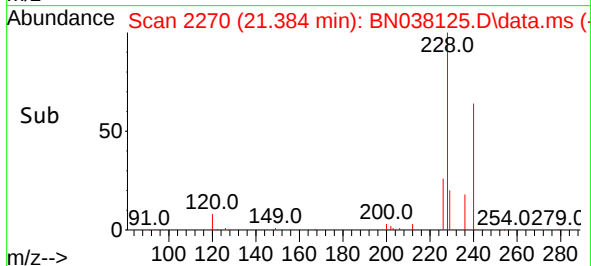
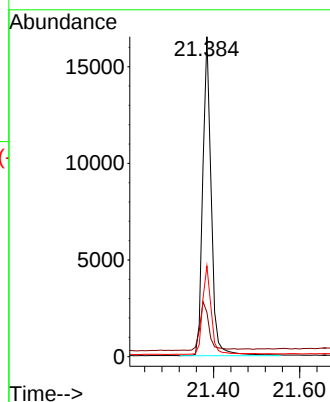
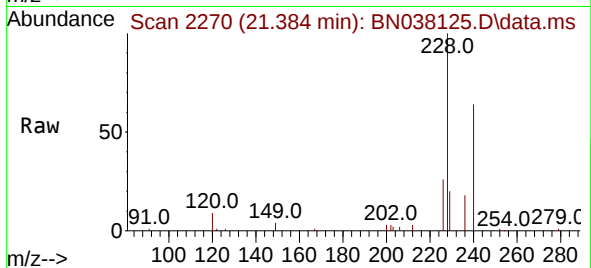
Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

Tgt Ion:240	Resp:	22626
Ion Ratio	Lower	Upper
240	100	
120	13.8	10.7 16.1
236	28.4	23.1 34.7



#30

Pyrene

Concen: 2.386 ng

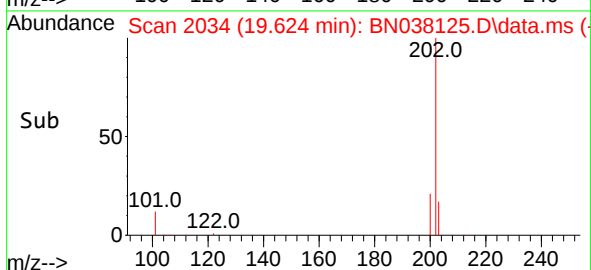
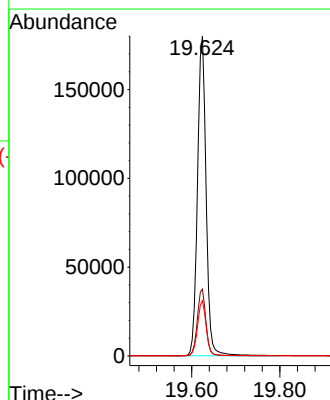
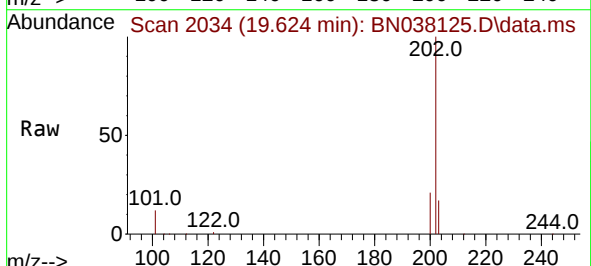
RT: 19.624 min Scan# 2034

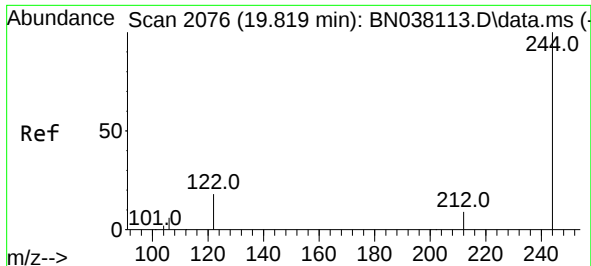
Delta R.T. 0.014 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

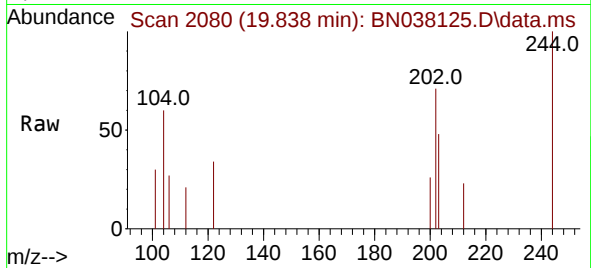
Tgt Ion:202	Resp:	243661
Ion Ratio	Lower	Upper
202	100	
200	21.0	16.7 25.1
203	17.4	14.2 21.2



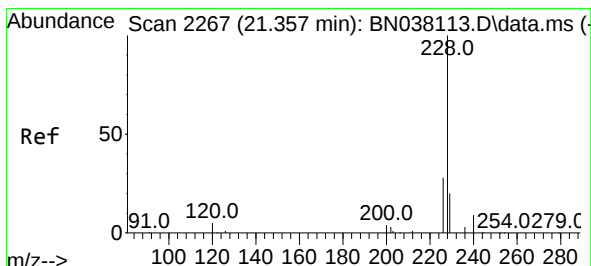
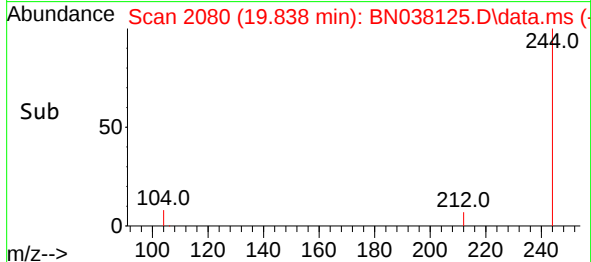
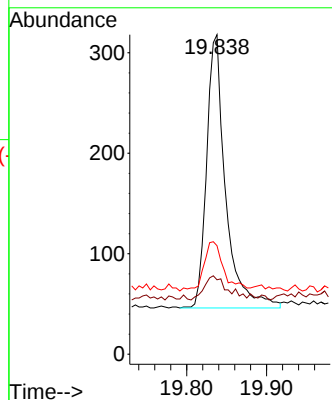


#31
 Terphenyl-d14
 Concen: 0.009 ng
 RT: 19.838 min Scan# 2076
 Delta R.T. 0.019 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Instrument :
 BNA_N
 ClientSampleId :

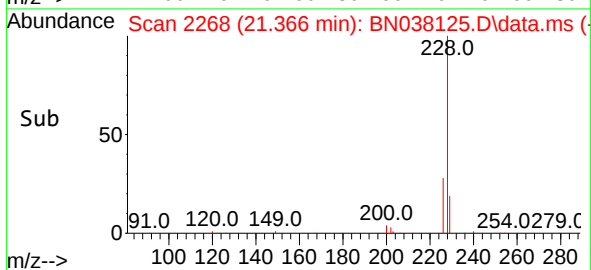
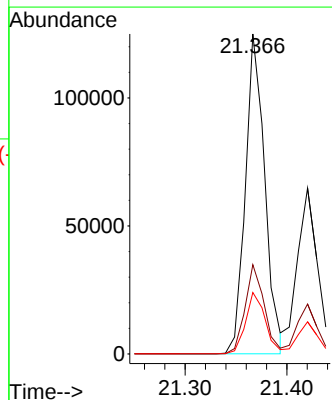
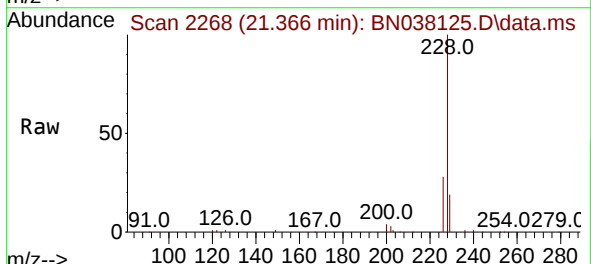


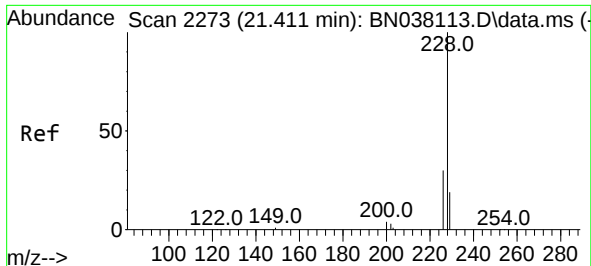
Tgt Ion:244 Resp: 447
 Ion Ratio Lower Upper
 244 100
 212 23.3 7.8 11.6#
 122 34.0 15.2 22.8#



#32
 Benzo(a)anthracene
 Concen: 2.044 ng
 RT: 21.366 min Scan# 2268
 Delta R.T. 0.009 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

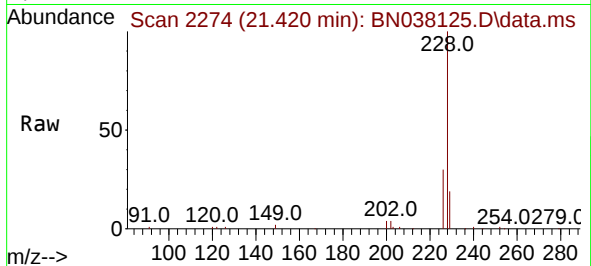
Tgt Ion:228 Resp: 164997
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.2 33.4
 229 19.2 15.8 23.8



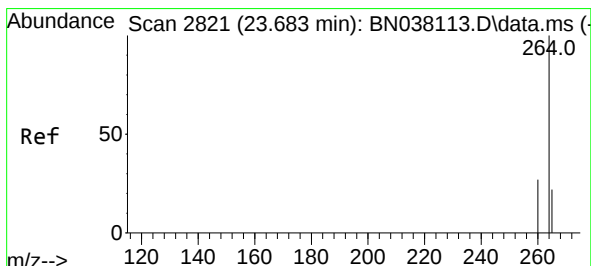
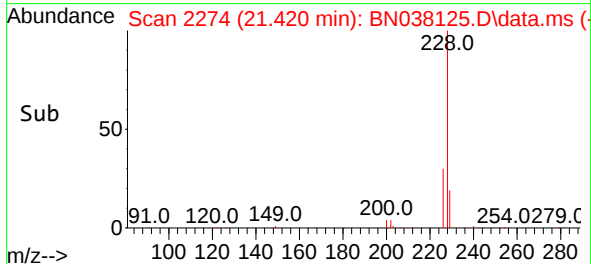
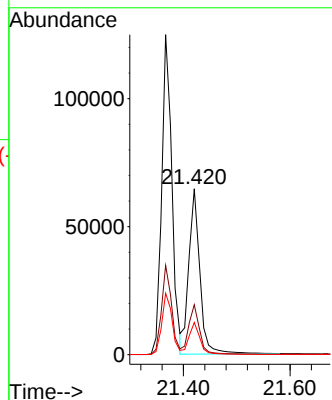


#33
Chrysene
Concen: 1.069 ng
RT: 21.420 min Scan# 214
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Instrument :
BNA_N
ClientSampleId :

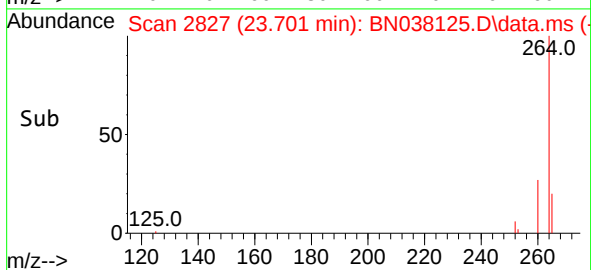
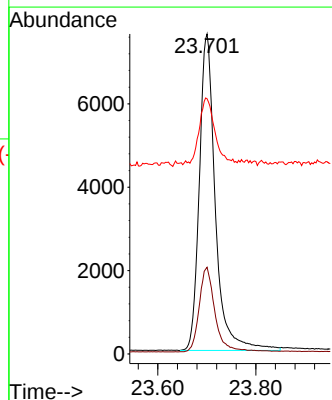
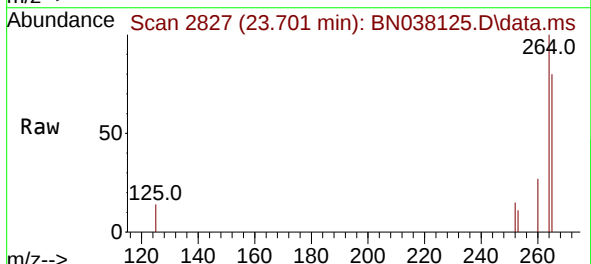


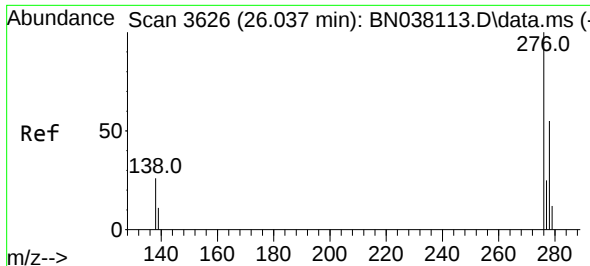
Tgt Ion:228 Resp: 93681
Ion Ratio Lower Upper
228 100
226 30.1 24.3 36.5
229 19.4 15.7 23.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.701 min Scan# 2827
Delta R.T. 0.021 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

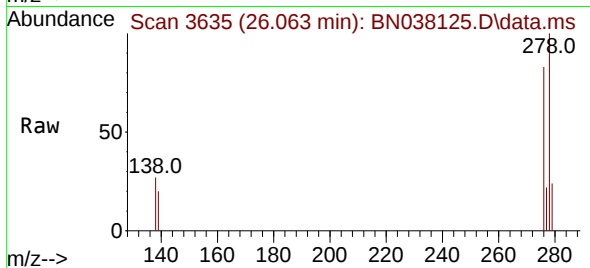
Tgt Ion:264 Resp: 17244
Ion Ratio Lower Upper
264 100
260 27.1 21.8 32.8
265 79.8 68.6 102.8



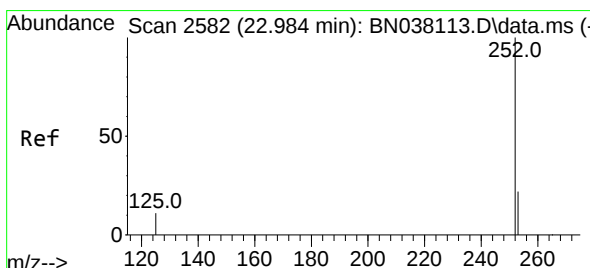
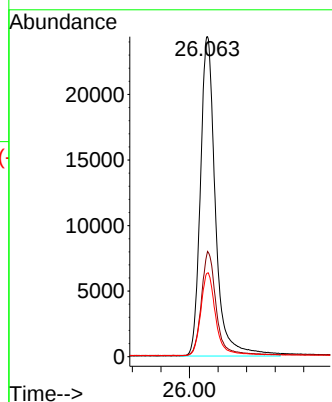
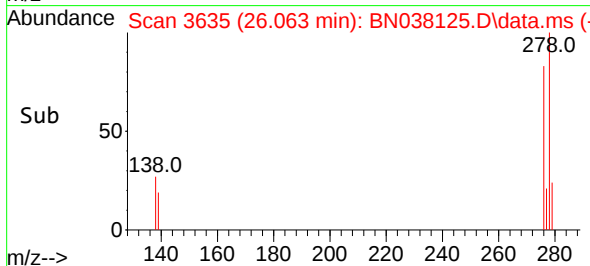


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.258 ng
RT: 26.063 min Scan# 3626
Delta R.T. 0.029 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Instrument :
BNA_N
ClientSampleId :

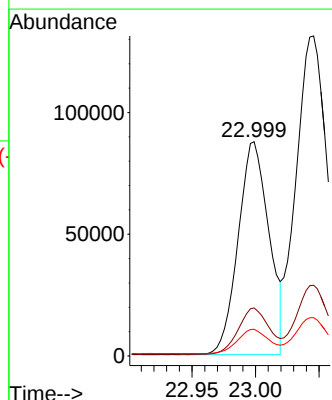
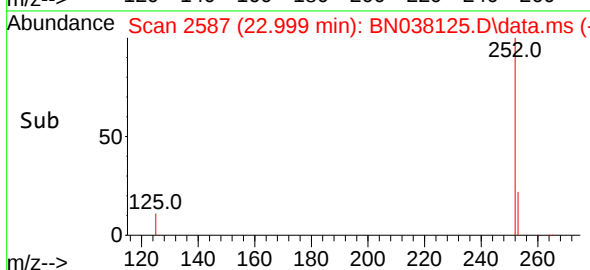
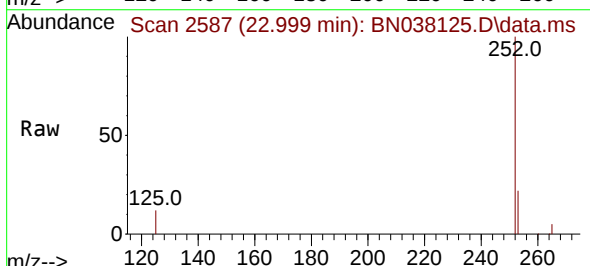


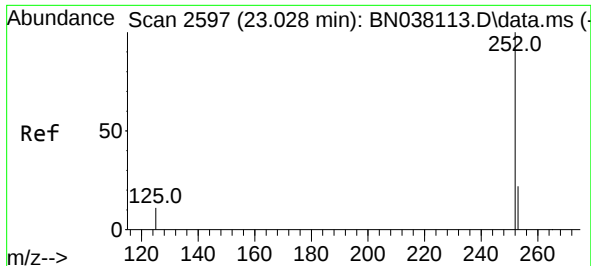
Tgt Ion:276 Resp: 89161
Ion Ratio Lower Upper
276 100
138 31.6 21.4 32.0
277 25.9 19.2 28.8



#37
Benzo(b)fluoranthene
Concen: 2.005 ng
RT: 22.999 min Scan# 2587
Delta R.T. 0.018 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

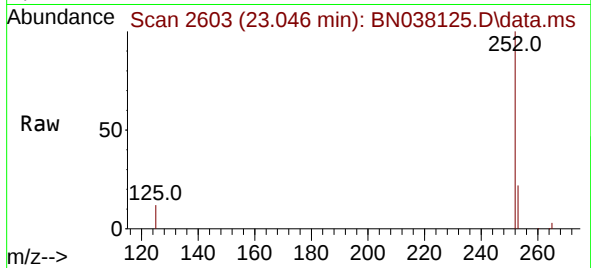
Tgt Ion:252 Resp: 147788
Ion Ratio Lower Upper
252 100
253 22.4 20.9 31.3
125 12.5 14.1 21.1#



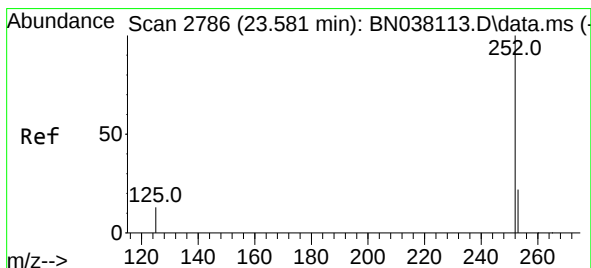
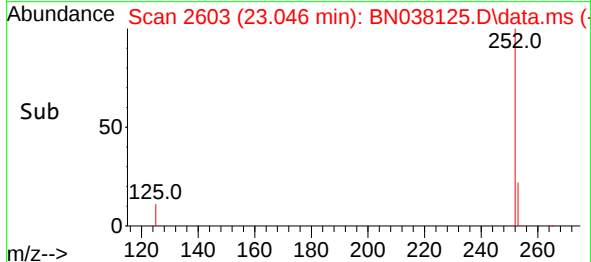
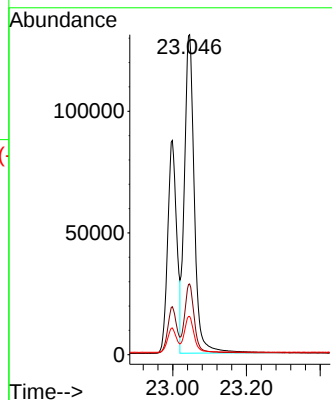


#38
Benzo(k)fluoranthene
Concen: 3.291 ng
RT: 23.046 min Scan# 20
Delta R.T. 0.018 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Instrument :
BNA_N
ClientSampleId :

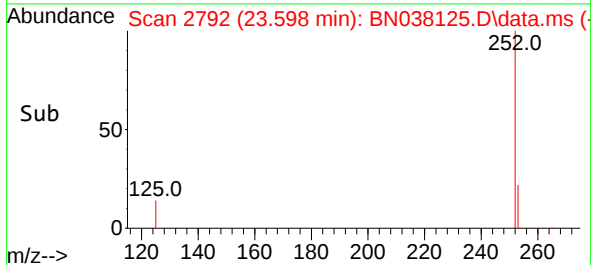
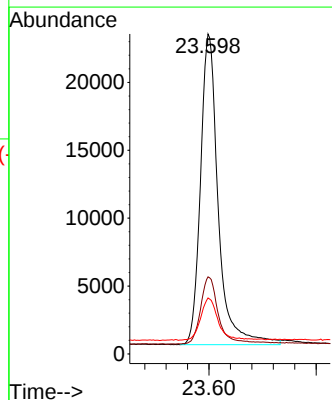
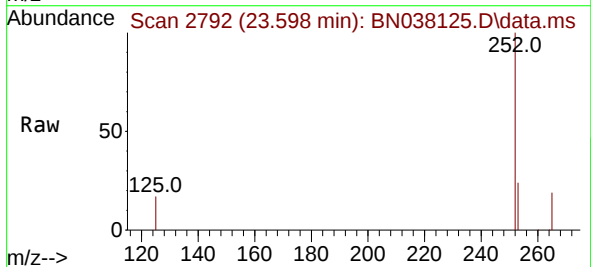


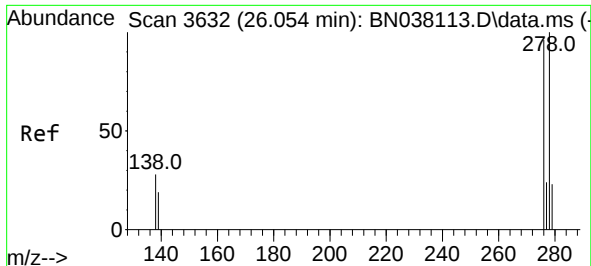
Tgt Ion:252 Resp: 244185
Ion Ratio Lower Upper
252 100
253 22.1 21.2 31.8
125 12.0 14.6 22.0#



#39
Benzo(a)pyrene
Concen: 0.892 ng
RT: 23.598 min Scan# 2792
Delta R.T. 0.020 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:252 Resp: 52623
Ion Ratio Lower Upper
252 100
253 24.1 23.1 34.7
125 17.5 18.6 28.0#

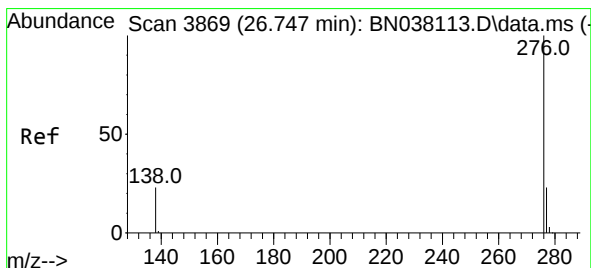
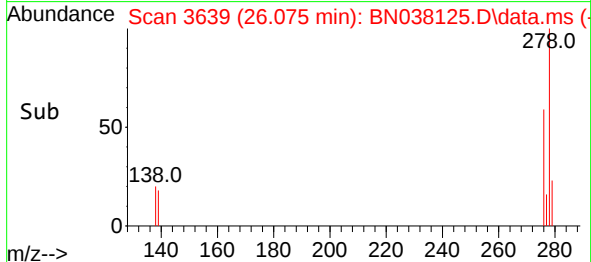
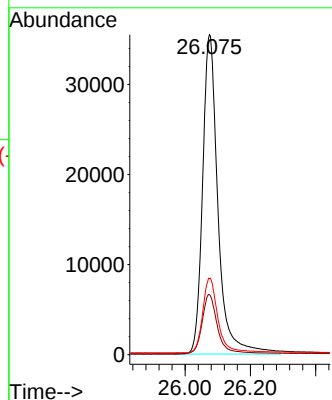
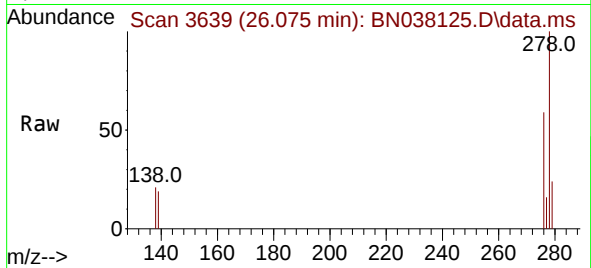




#40
Dibenzo(a,h)anthracene
Concen: 2.132 ng
RT: 26.075 min Scan# 30
Delta R.T. 0.026 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Instrument :
BNA_N
ClientSampleId :

Tgt Ion:278 Resp: 116233
Ion Ratio Lower Upper
278 100
139 18.7 17.6 26.4
279 23.8 22.6 33.8



#41
Benzo(g,h,i)perylene
Concen: 1.025 ng
RT: 26.776 min Scan# 3879
Delta R.T. 0.026 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:276 Resp: 63812
Ion Ratio Lower Upper
276 100
277 24.1 19.7 29.5
138 23.9 20.2 30.4

