

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 :
 38072-061125DL

Quant Time: Oct 30 16:36:11 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)

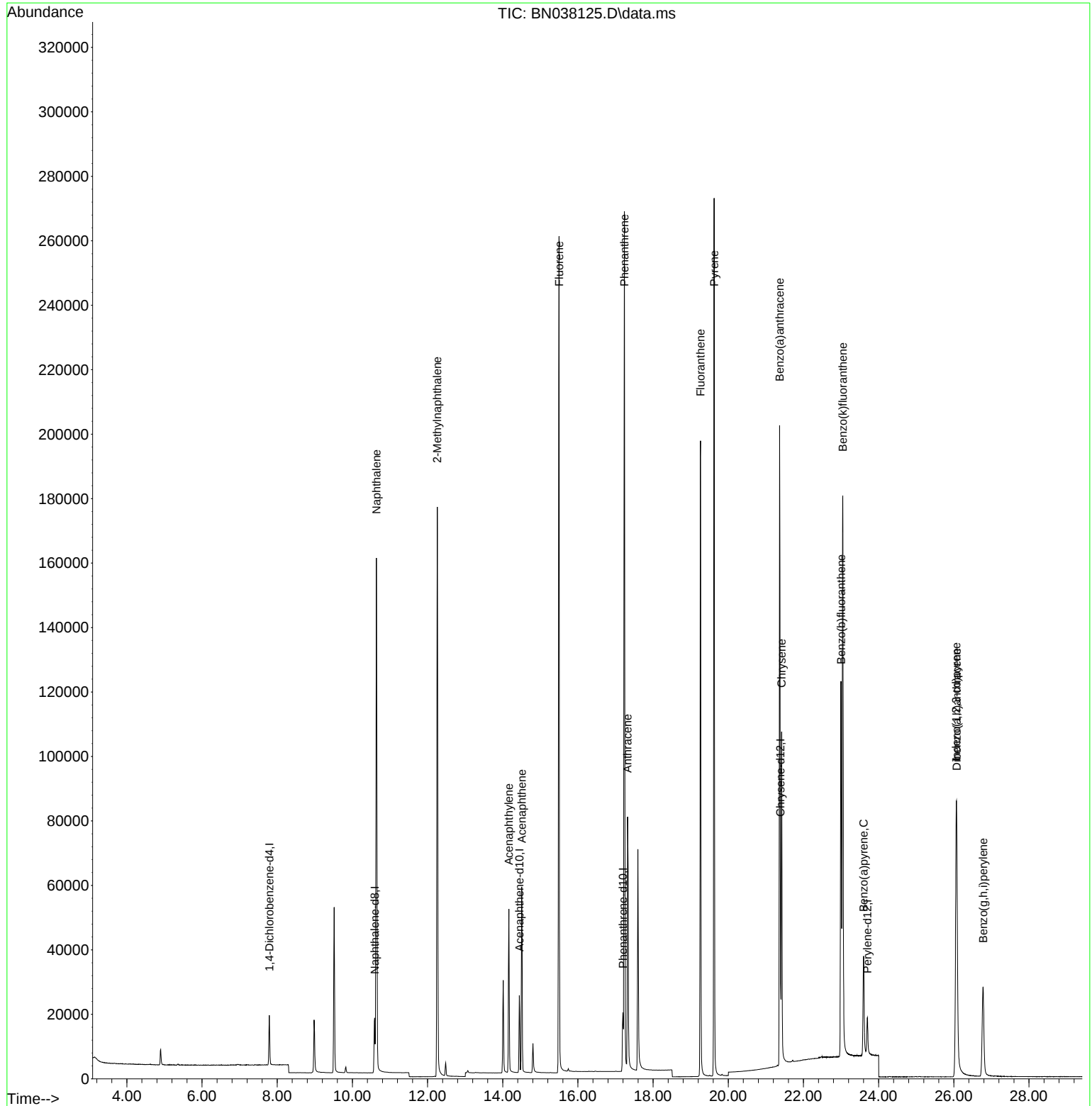
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	8715	0.400	ng	0.01
7) Naphthalene-d8	10.594	136	27253	0.400	ng	0.02
13) Acenaphthene-d10	14.441	164	15186	0.400	ng	0.01
19) Phenanthrene-d10	17.198	188	28712	0.400	ng	# 0.01
29) Chrysene-d12	21.384	240	23533	0.400	ng	0.00
35) Perylene-d12	23.700	264	17265	0.400	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.355	112	212	0.010	ng	0.00
5) Phenol-d6	6.952	99	224	0.009	ng	0.01
8) Nitrobenzene-d5	8.939	82	272	0.012	ng	0.01
11) 2-Methylnaphthalene-d10	12.187	152	309	0.008	ng	0.01
14) 2,4,6-Tribromophenol	15.944	330	36	0.006	ng	0.01
15) 2-Fluorobiphenyl	13.073	172	699	0.011	ng	0.02
27) Fluoranthene-d10	19.229	212	578	0.008	ng	0.00
31) Terphenyl-d14	19.833	244	474	0.009	ng	0.01
Target Compounds					Qvalue	
9) Naphthalene	10.637	128	264593	3.525	ng	99
12) 2-Methylnaphthalene	12.258	142	167032	3.337	ng	99
16) Acenaphthylene	14.163	152	69496	1.011	ng	100
17) Acenaphthene	14.505	154	33784	0.702	ng	98
18) Fluorene	15.499	166	210663	3.341	ng	99
25) Phenanthrene	17.235	178	333263	3.656	ng	100
26) Anthracene	17.322	178	118839	1.490	ng	99
28) Fluoranthene	19.262	202	228078	2.239	ng	99
30) Pyrene	19.624	202	295623	2.783	ng	100
32) Benzo(a)anthracene	21.366	228	198039	2.359	ng	99
33) Chrysene	21.420	228	108103	1.186	ng	100
36) Indeno(1,2,3-cd)pyrene	26.066	276	100932	1.423	ng	95
37) Benzo(b)fluoranthene	23.002	252	171745	2.327	ng	# 90
38) Benzo(k)fluoranthene	23.046	252	274829	3.699	ng	# 89
39) Benzo(a)pyrene	23.598	252	59532	1.008	ng	# 88
40) Dibenzo(a,h)anthracene	26.077	278	132156	2.421	ng	92
41) Benzo(g,h,i)perylene	26.779	276	71261	1.143	ng	98

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

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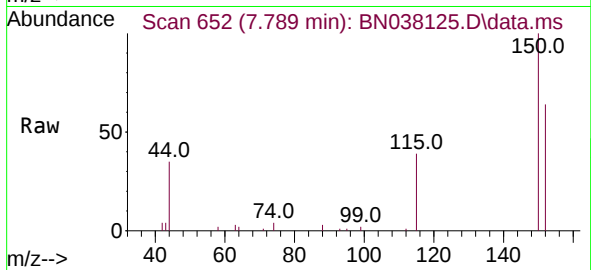
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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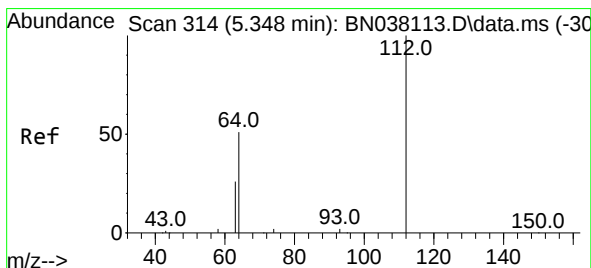
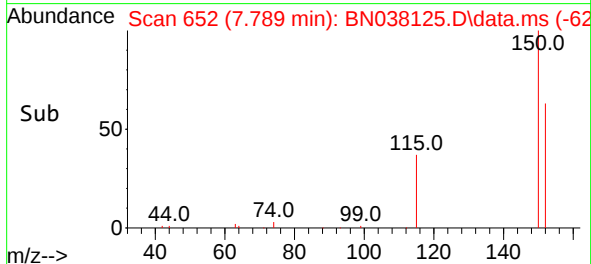
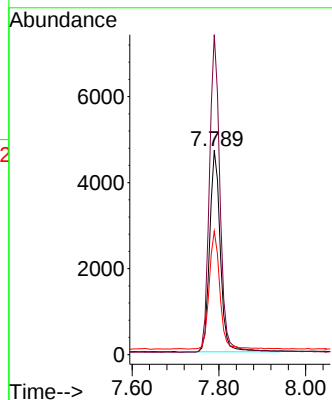


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.789 min Scan# 61
 Delta R.T. 0.014 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Instrument :
 BNA_N
 ClientSampleId :
 38072-061125DL

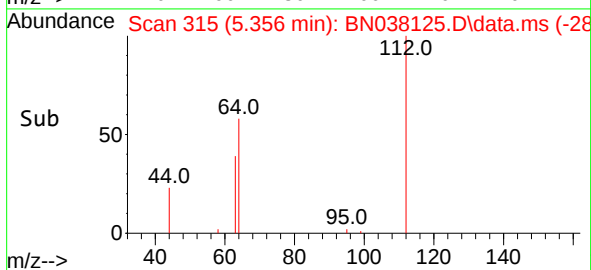
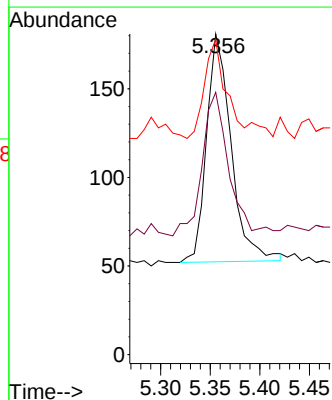
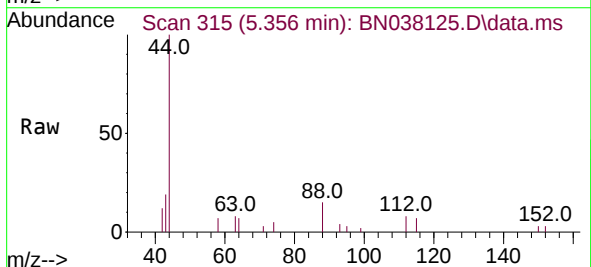


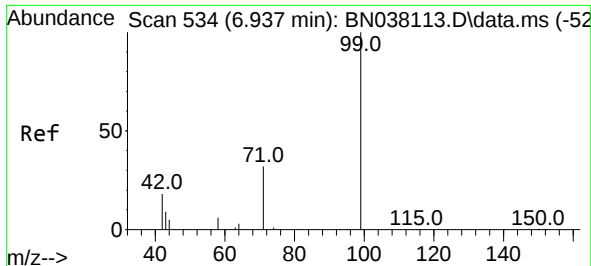
Tgt Ion:152 Resp: 8715
 Ion Ratio Lower Upper
 152 100
 150 156.2 122.3 183.5
 115 61.0 47.4 71.0



#4
 2-Fluorophenol
 Concen: 0.010 ng
 RT: 5.355 min Scan# 315
 Delta R.T. 0.007 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Tgt Ion:112 Resp: 212
 Ion Ratio Lower Upper
 112 100
 64 63.2 45.4 68.0
 63 48.1 23.2 34.8#

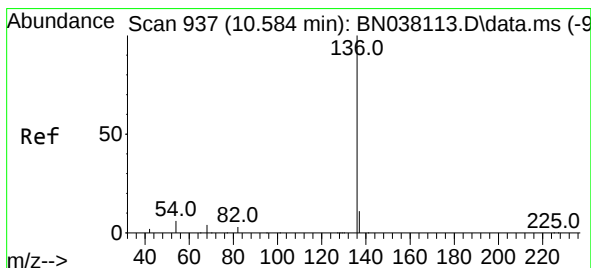
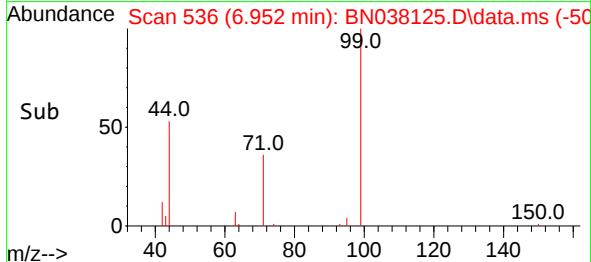
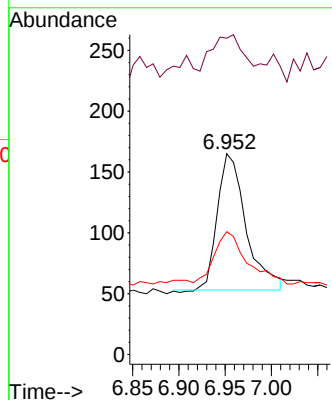
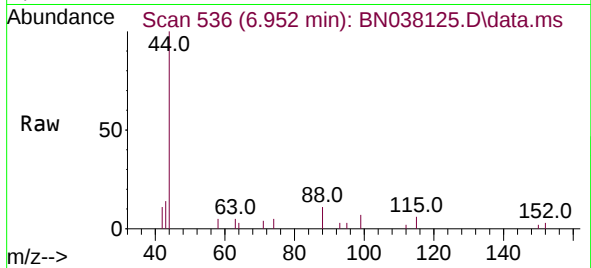




#5
Phenol-d6
Concen: 0.009 ng
RT: 6.952 min Scan# 534
Delta R.T. 0.014 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

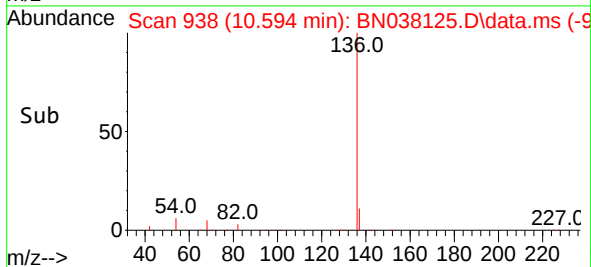
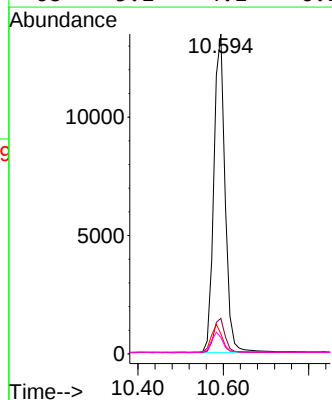
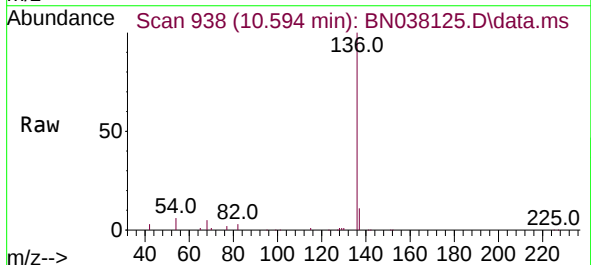
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

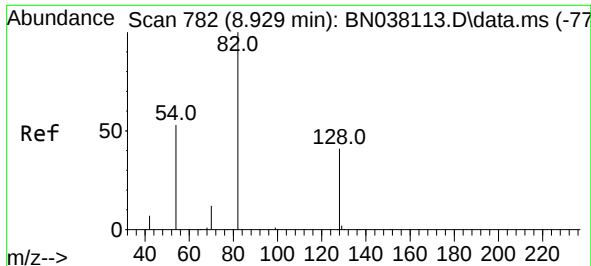
Tgt Ion: 99 Resp: 224
Ion Ratio Lower Upper
99 100
42 34.8 16.6 24.8#
71 42.0 25.4 38.2#



#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: 27253
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

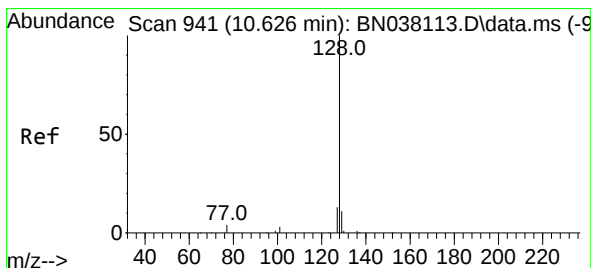
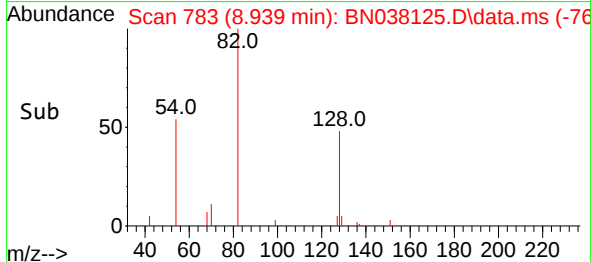
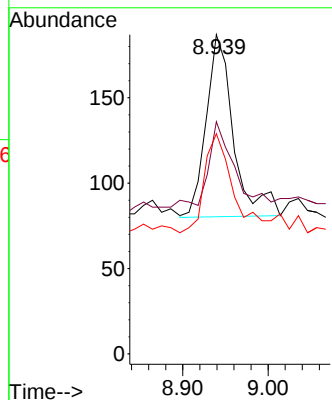
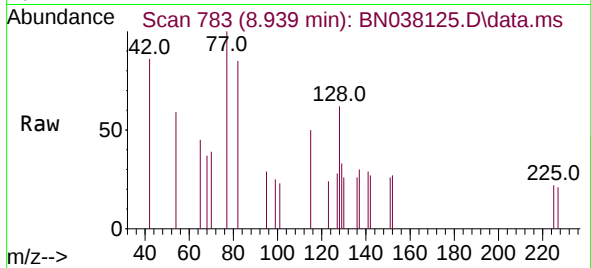




#8
Nitrobenzene-d5
Concen: 0.012 ng
RT: 8.939 min Scan# 782
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

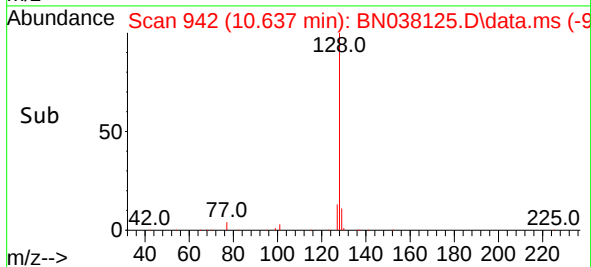
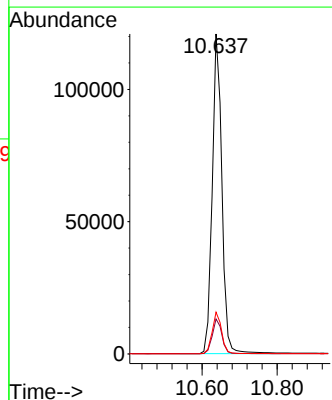
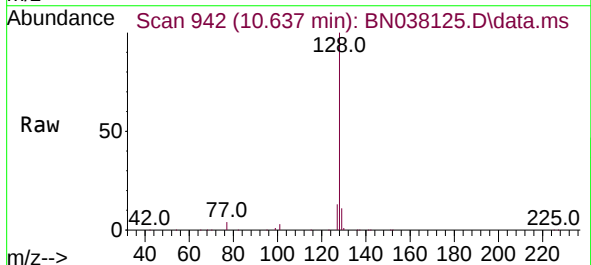
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

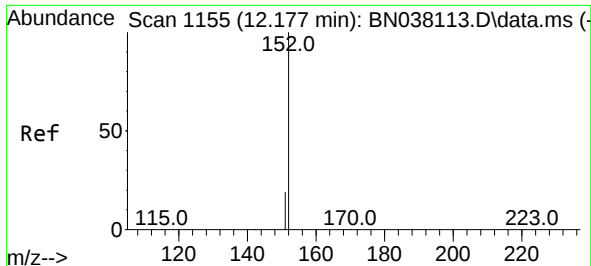
Tgt Ion: 82 Resp: 272
Ion Ratio Lower Upper
82 100
128 64.7 34.1 51.1#
54 65.6 43.5 65.3#



#9
Naphthalene
Concen: 3.525 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: 264593
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 13.0 10.5 15.7

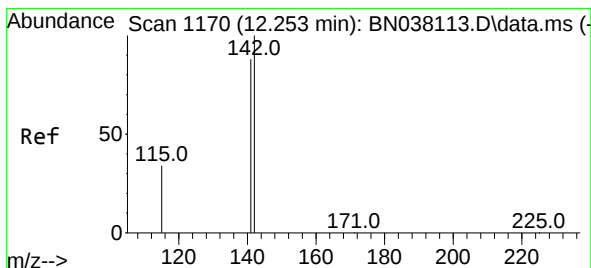
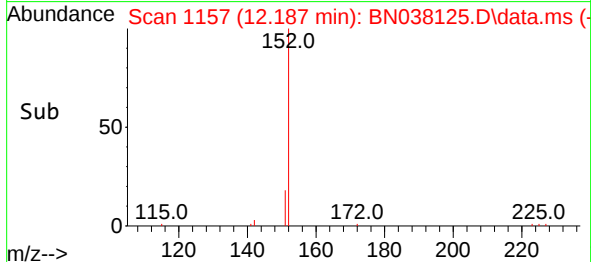
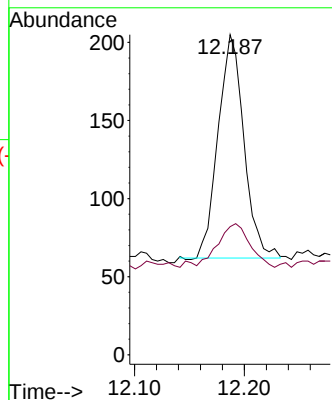
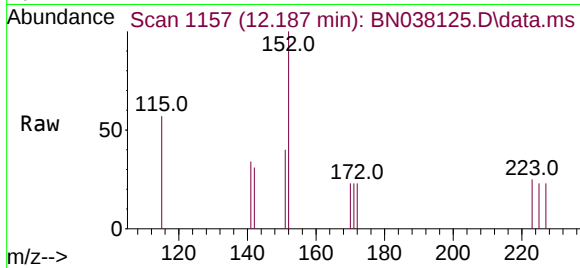




#11
2-Methylnaphthalene-d10
Concen: 0.008 ng
RT: 12.187 min Scan# 1155
Delta R.T. 0.010 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

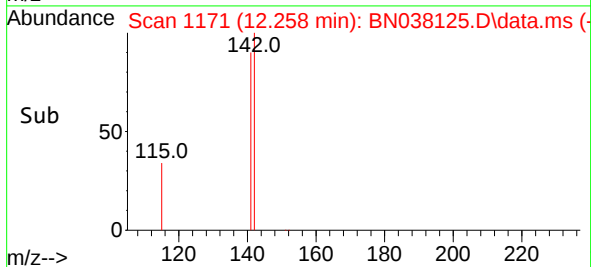
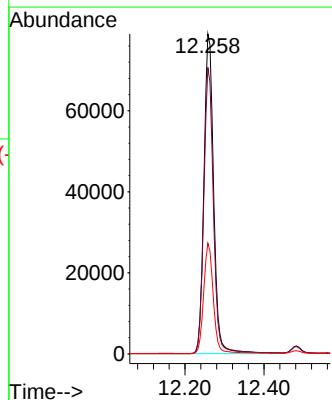
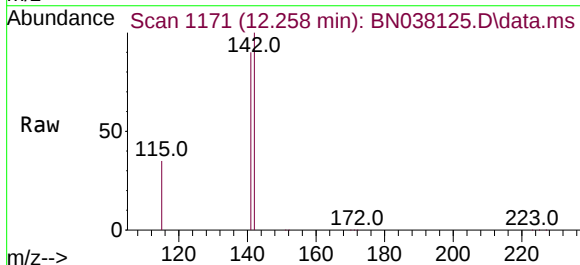
Instrument :
BNA_N
ClientSampleId :
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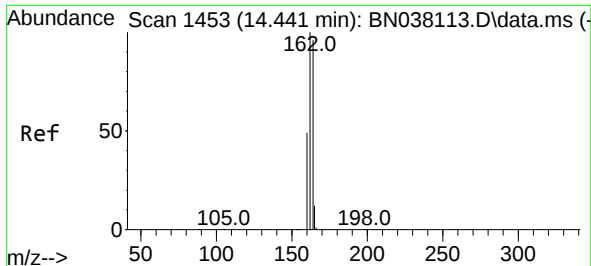
Tgt Ion:152 Resp: 309
Ion Ratio Lower Upper
152 100
151 23.3 16.8 25.2



#12
2-Methylnaphthalene
Concen: 3.337 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: 167032
Ion Ratio Lower Upper
142 100
141 88.8 70.3 105.5
115 34.9 27.8 41.6

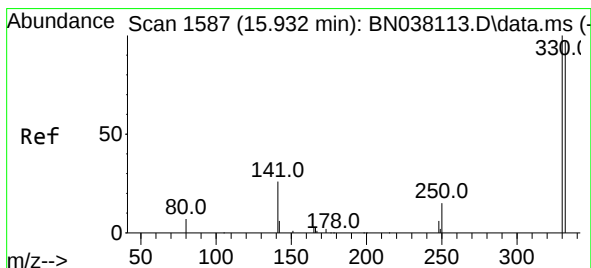
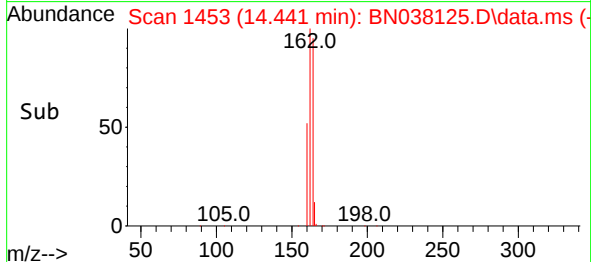
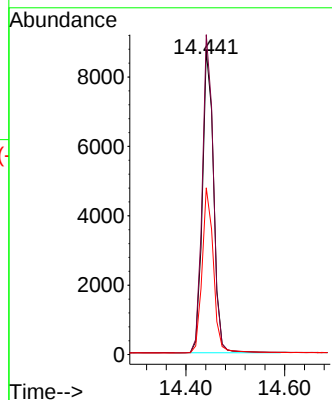
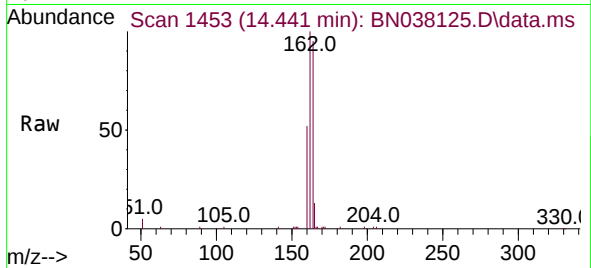




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

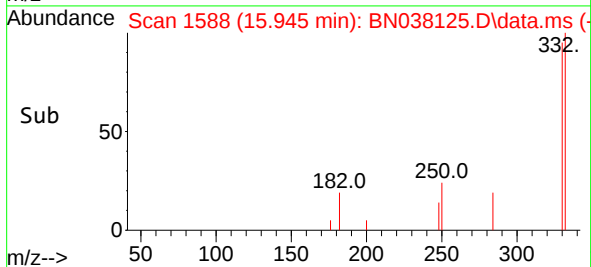
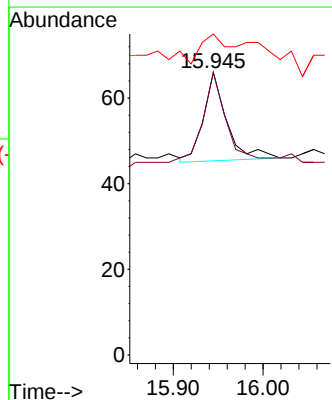
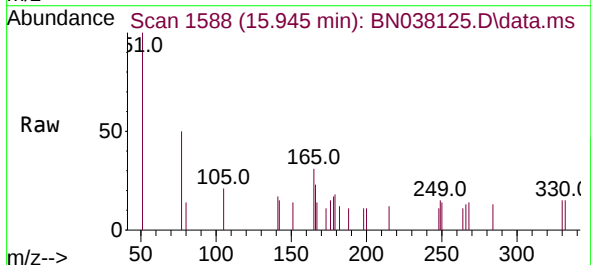
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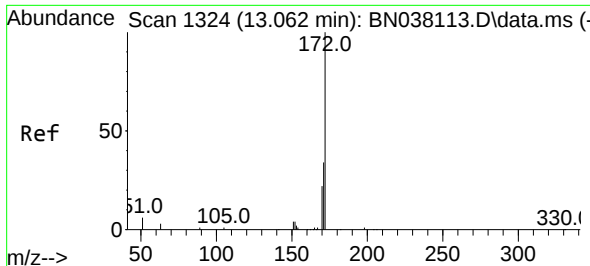
Tgt Ion:164 Resp: 15186
Ion Ratio Lower Upper
164 100
162 107.1 83.0 124.4
160 53.7 40.7 61.1



#14
2,4,6-Tribromophenol
Concen: 0.006 ng
RT: 15.944 min Scan# 1588
Delta R.T. 0.012 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:330 Resp: 36
Ion Ratio Lower Upper
330 100
332 100.0 76.6 114.8
141 61.1 34.1 51.1#

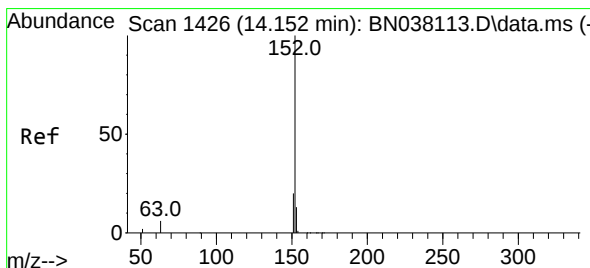
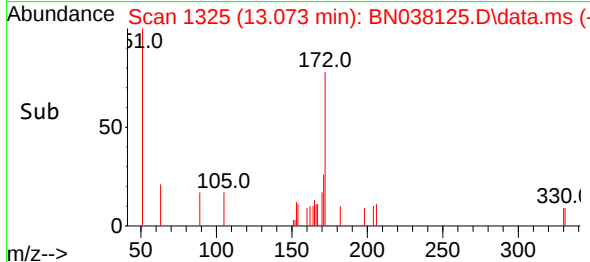
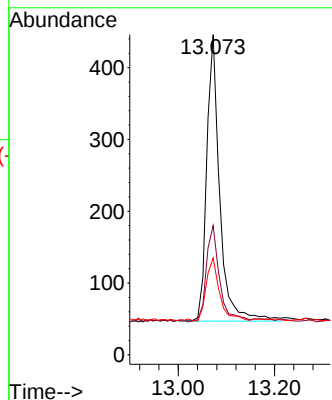
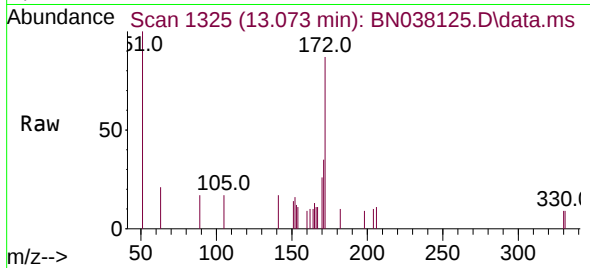




#15
2-Fluorobiphenyl
Concen: 0.011 ng
RT: 13.073 min Scan# 1324
Delta R.T. 0.021 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

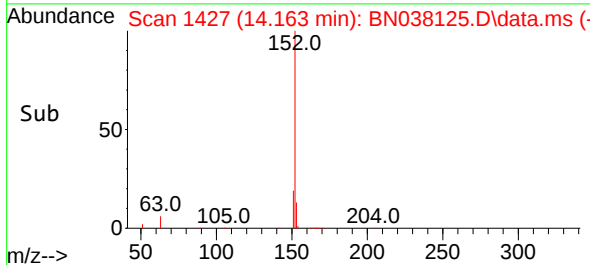
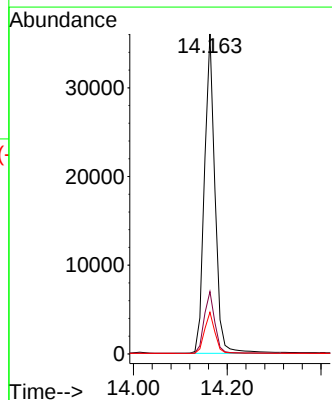
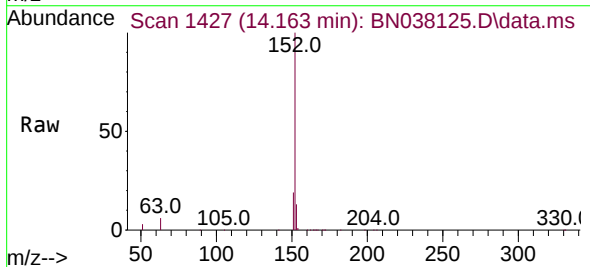
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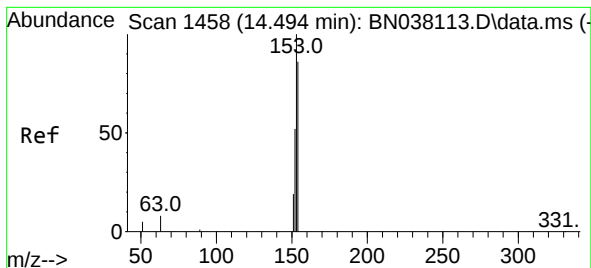
Tgt Ion:	172	Resp:	699
Ion Ratio	Lower	Upper	
172	100		
171	41.3	27.8	41.6
170	29.7	18.1	27.1



#16
Acenaphthylene
Concen: 1.011 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:	69496
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	13.1	10.2	15.2





#17

Acenaphthene

Concen: 0.702 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 :

38072-061125DL

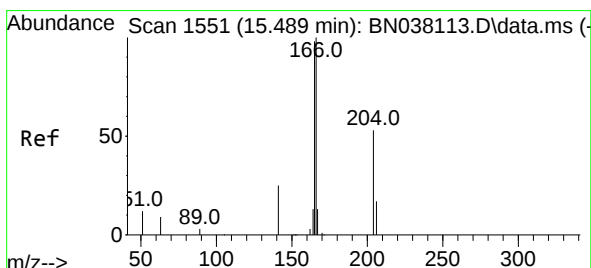
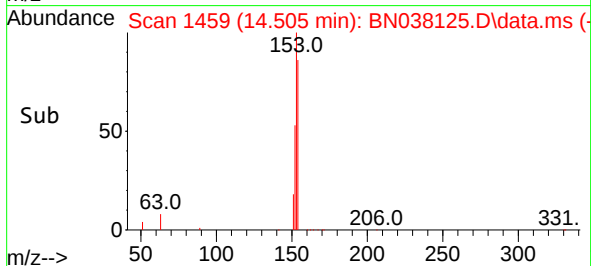
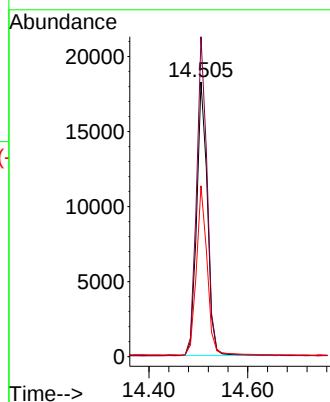
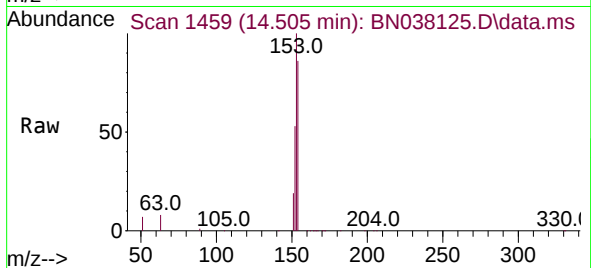
Tgt Ion:154 Resp: 33784

Ion Ratio Lower Upper

154 100

153 114.1 90.0 135.0

152 60.7 47.3 70.9



#18

Fluorene

Concen: 3.341 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.010 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

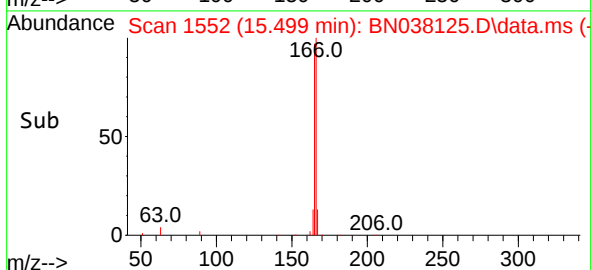
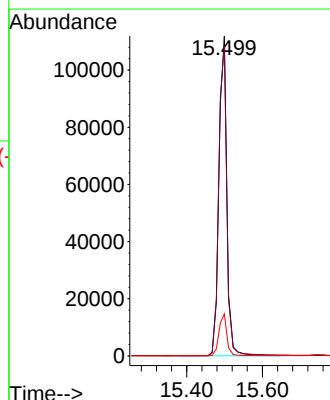
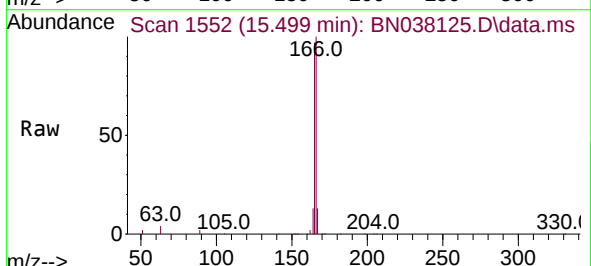
Tgt Ion:166 Resp: 210663

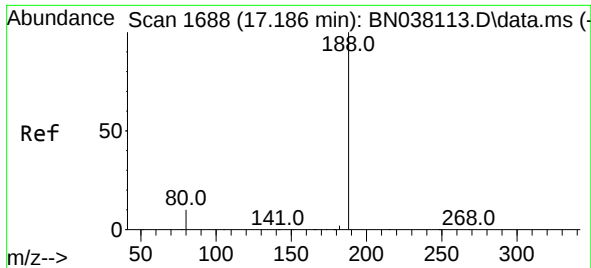
Ion Ratio Lower Upper

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165 100.0 79.0 118.4

167 13.2 10.7 16.1

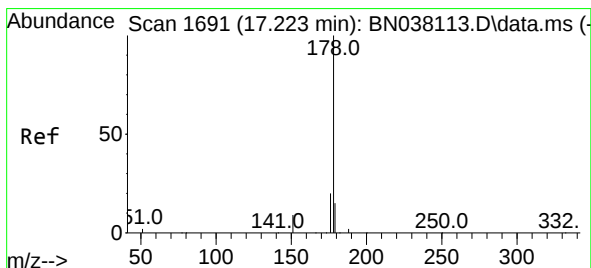
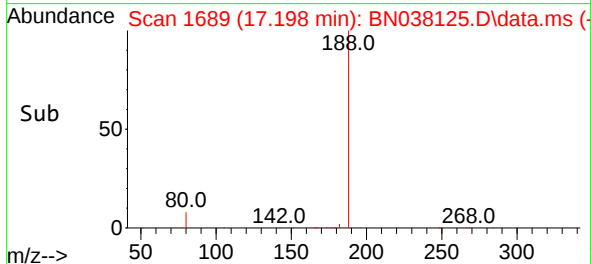
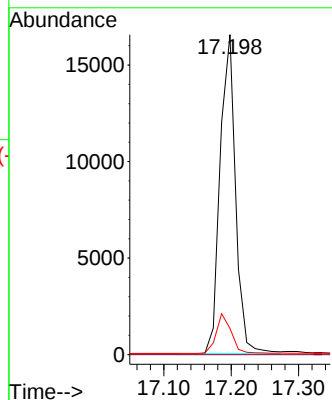
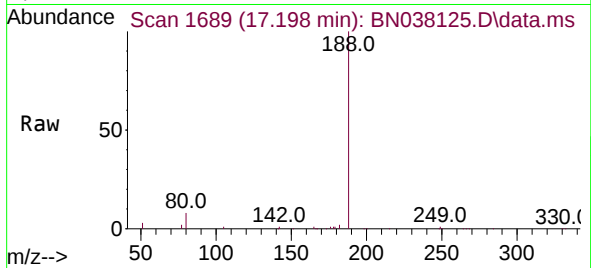




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

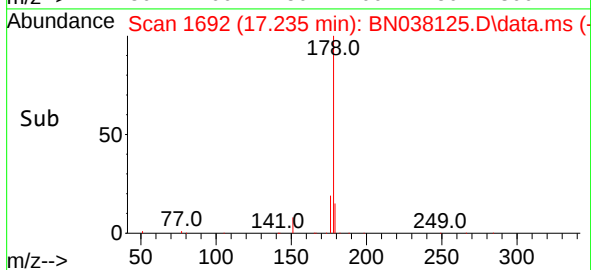
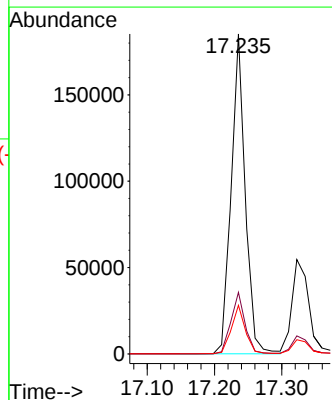
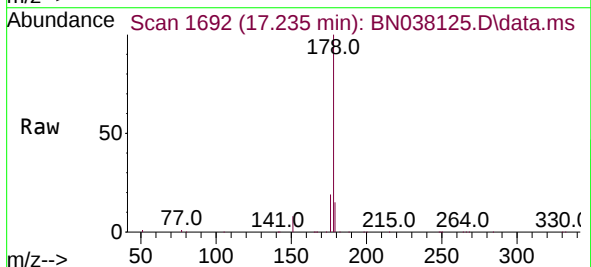
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

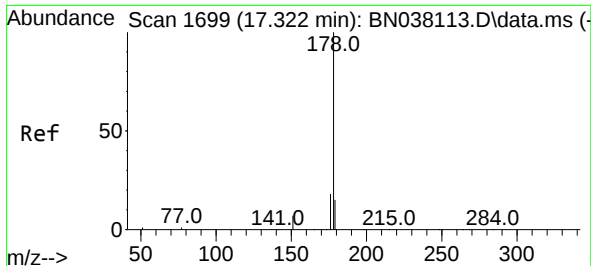
Tgt Ion:188 Resp: 28712
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.5 8.6 13.0#



#25
Phenanthrene
Concen: 3.656 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.012 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:178 Resp: 333263
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.2 12.2 18.4

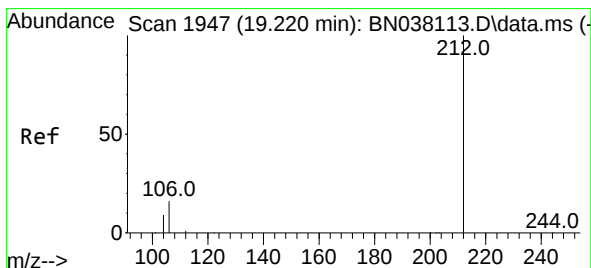
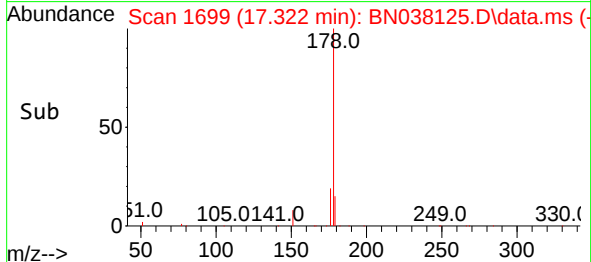
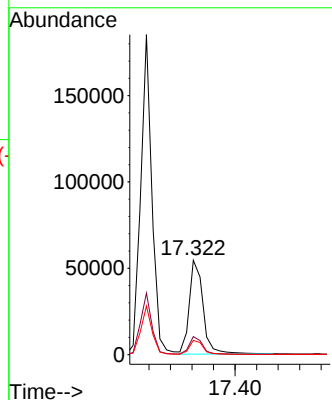
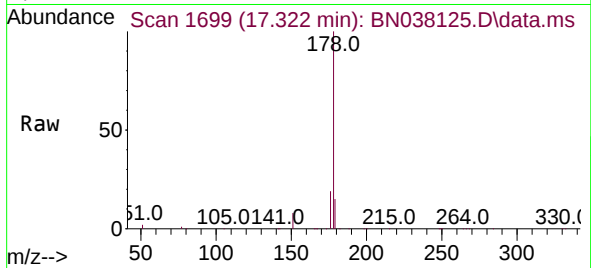




#26
 Anthracene
 Concen: 1.490 ng
 RT: 17.322 min Scan# 1699
 Delta R.T. -0.000 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

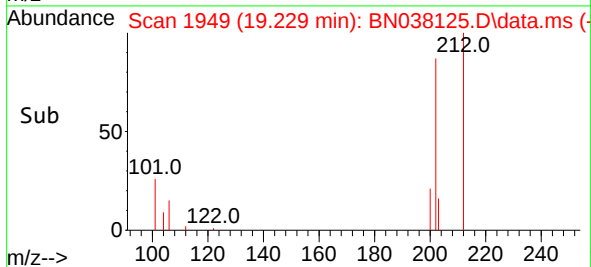
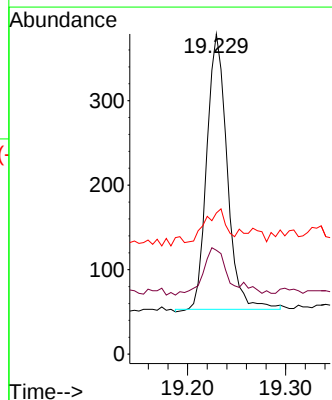
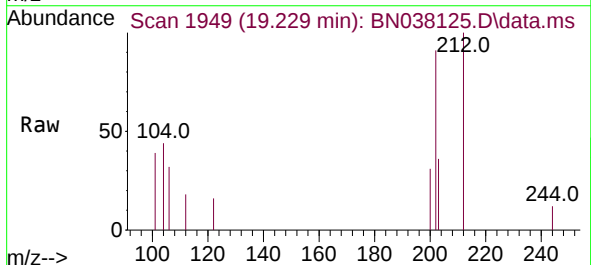
Instrument :
 BNA_N
 ClientSampleId :
 38072-061125DL

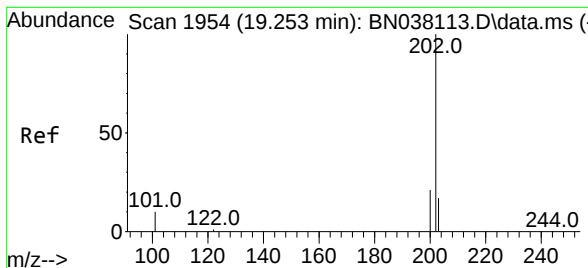
Tgt Ion:178 Resp: 118839
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 15.2 11.8 17.8



#27
 Fluoranthene-d10
 Concen: 0.008 ng
 RT: 19.229 min Scan# 1949
 Delta R.T. 0.009 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Tgt Ion:212 Resp: 578
 Ion Ratio Lower Upper
 212 100
 106 18.7 12.6 19.0
 104 12.8 7.1 10.7#





#28

Fluoranthene

Concen: 2.239 ng

RT: 19.262 min Scan# 19

Delta R.T. 0.009 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL

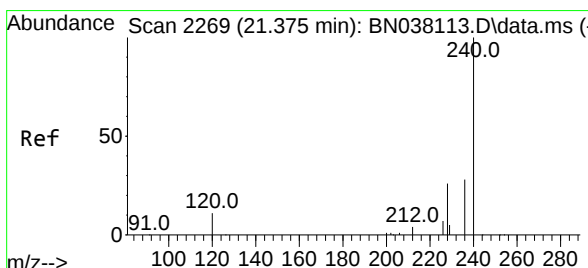
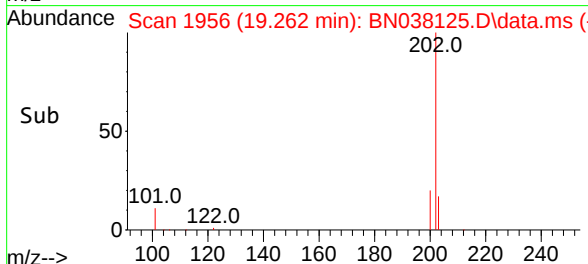
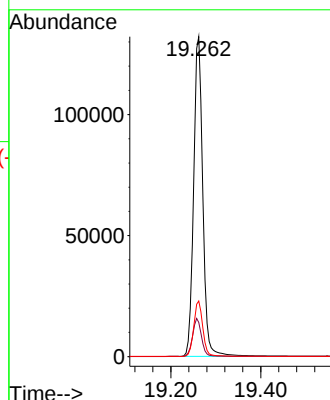
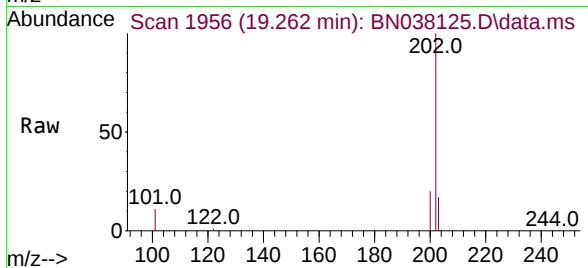
Tgt Ion:202 Resp: 228078

Ion Ratio Lower Upper

202 100

101 11.3 9.4 14.2

203 17.1 13.4 20.2



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 2270

Delta R.T. 0.009 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

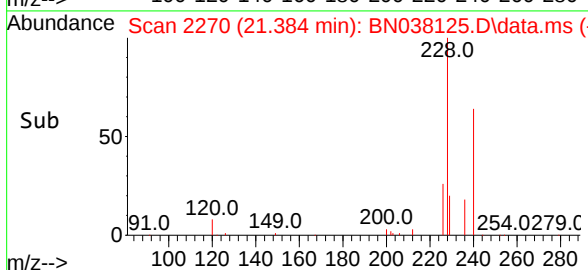
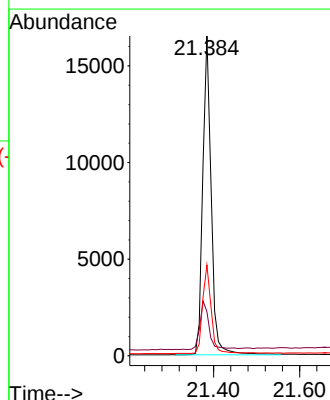
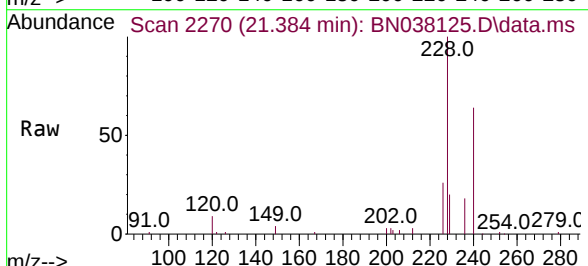
Tgt Ion:240 Resp: 23533

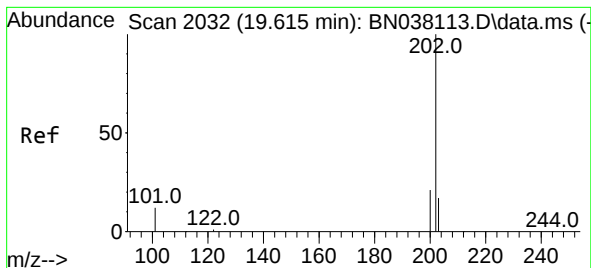
Ion Ratio Lower Upper

240 100

120 13.5 10.7 16.1

236 28.6 23.1 34.7





#30

Pyrene

Concen: 2.783 ng

RT: 19.624 min Scan# 2032

Delta R.T. 0.014 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL

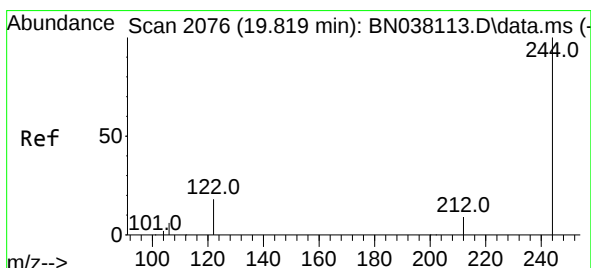
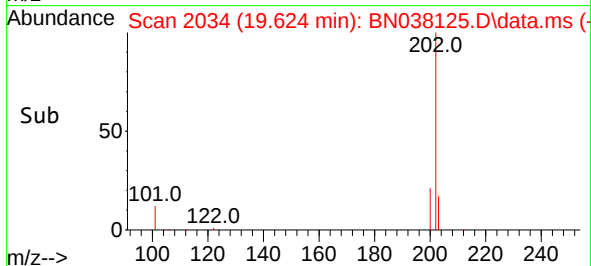
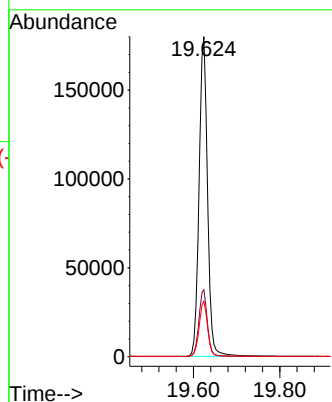
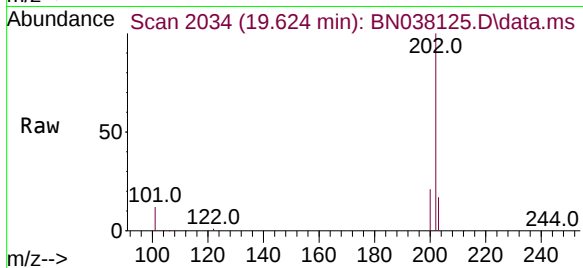
Tgt Ion:202 Resp: 295623

Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.5 14.2 21.2



#31

Terphenyl-d14

Concen: 0.009 ng

RT: 19.833 min Scan# 2079

Delta R.T. 0.014 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

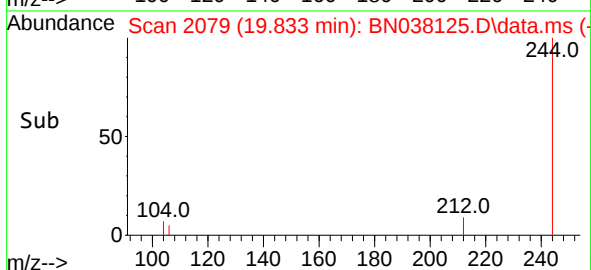
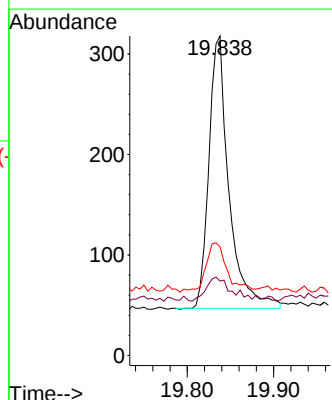
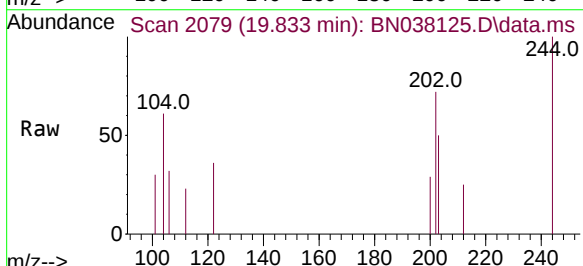
Tgt Ion:244 Resp: 474

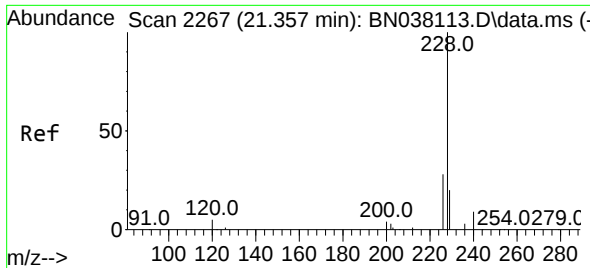
Ion Ratio Lower Upper

244 100

212 23.9 7.8 11.6#

122 33.8 15.2 22.8#

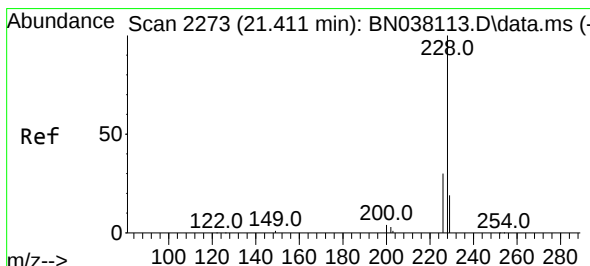
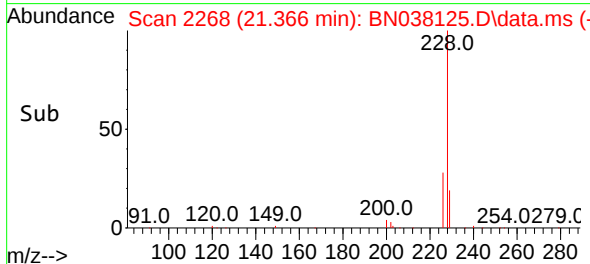
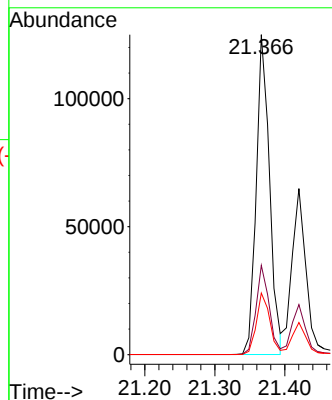
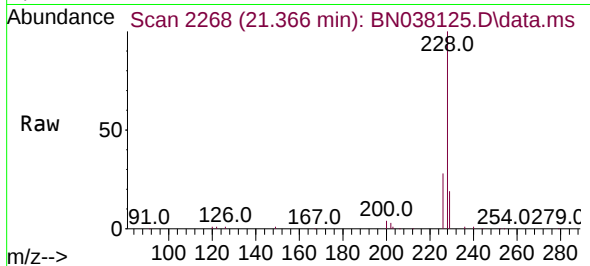




#32
Benzo(a)anthracene
Concen: 2.359 ng
RT: 21.366 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

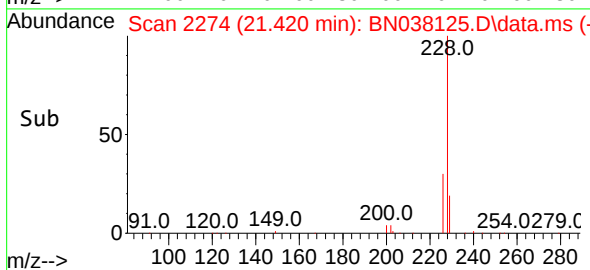
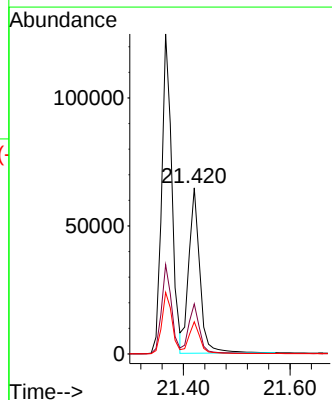
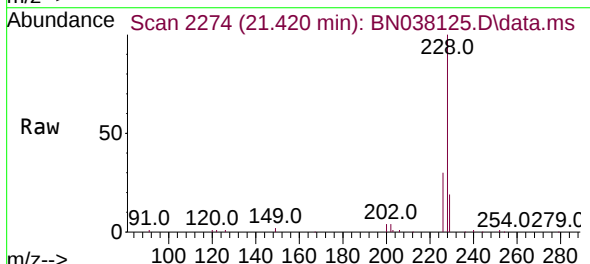
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

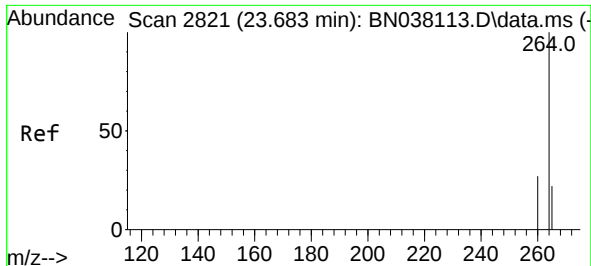
Tgt Ion:228 Resp: 198039
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.4
229 19.2 15.8 23.8



#33
Chrysene
Concen: 1.186 ng
RT: 21.420 min Scan# 2274
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:228 Resp: 108103
Ion Ratio Lower Upper
228 100
226 30.4 24.3 36.5
229 19.5 15.7 23.5

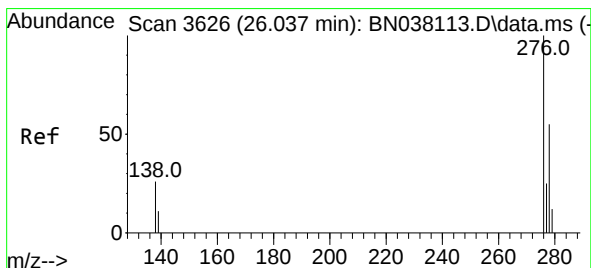
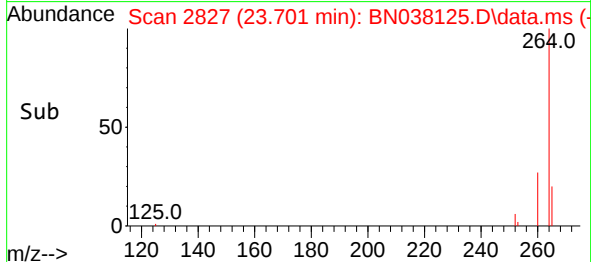
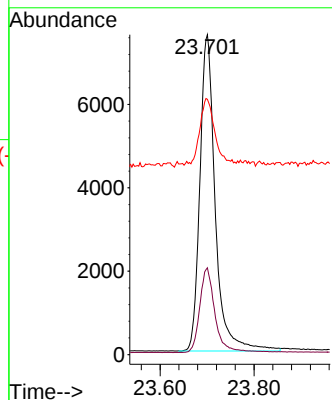
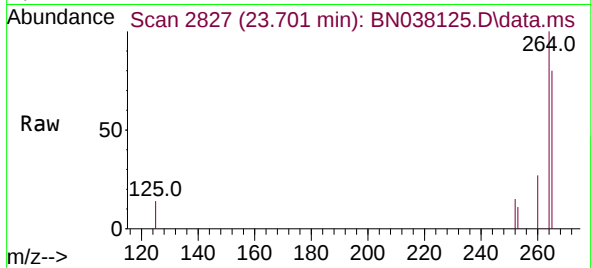




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.700 min Scan# 2821
 Delta R.T. 0.020 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

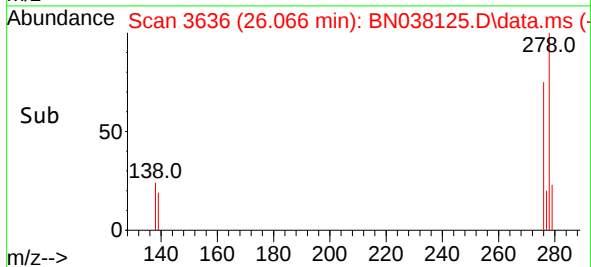
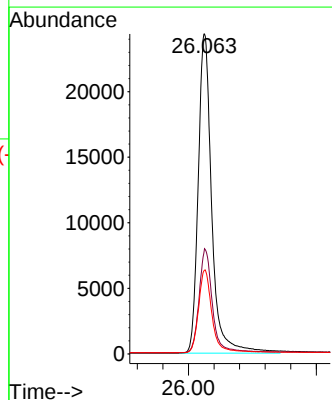
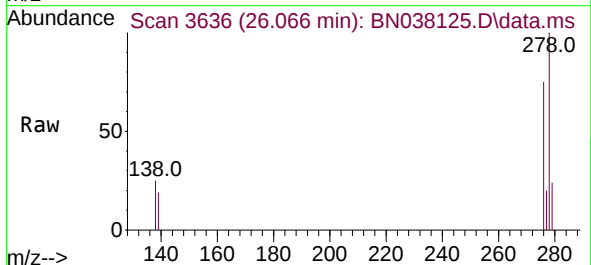
Instrument :
 BNA_N
 ClientSampleId :
 38072-061125DL

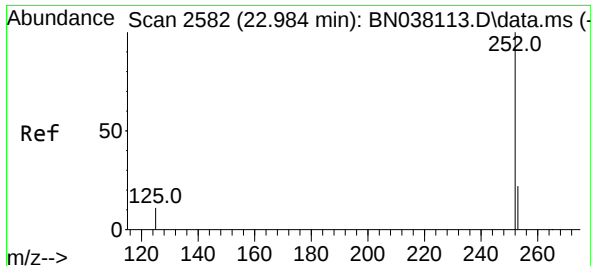
Tgt Ion:264 Resp: 17265
 Ion Ratio Lower Upper
 264 100
 260 26.5 21.8 32.8
 265 82.5 68.6 102.8



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 1.423 ng
 RT: 26.066 min Scan# 3636
 Delta R.T. 0.032 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Tgt Ion:276 Resp: 100932
 Ion Ratio Lower Upper
 276 100
 138 30.6 21.4 32.0
 277 25.3 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 2.327 ng

RT: 23.002 min Scan# 21

Delta R.T. 0.020 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL

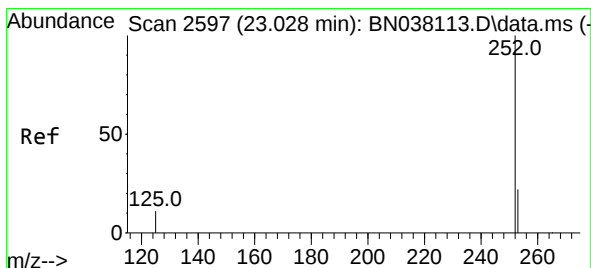
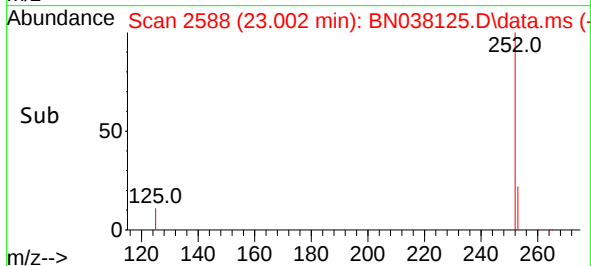
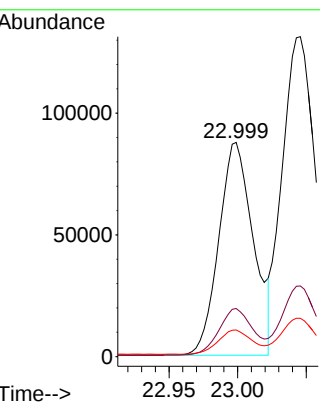
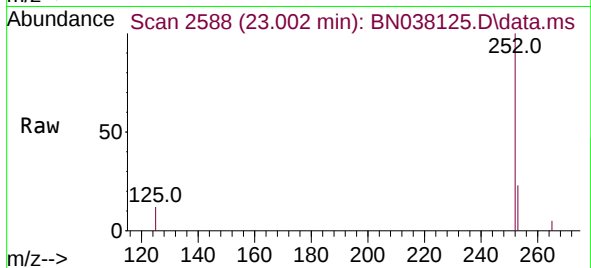
Tgt Ion:252 Resp: 171745

Ion Ratio Lower Upper

252 100

253 22.4 20.9 31.3

125 11.9 14.1 21.1#



#38

Benzo(k)fluoranthene

Concen: 3.699 ng

RT: 23.046 min Scan# 2603

Delta R.T. 0.017 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

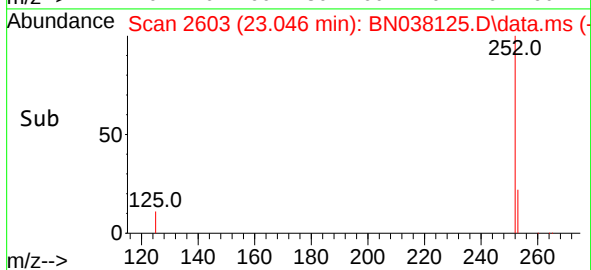
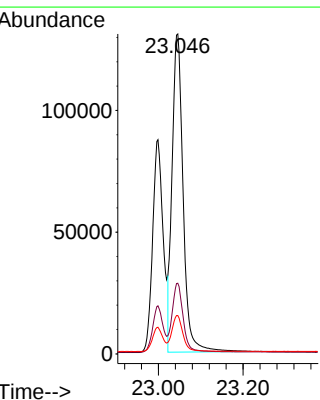
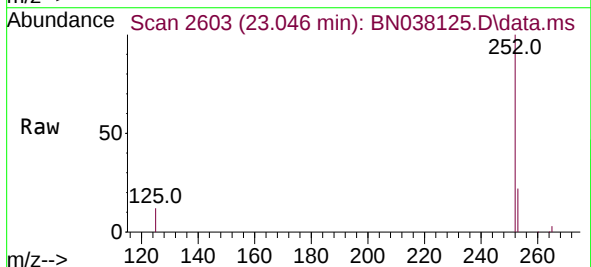
Tgt Ion:252 Resp: 274829

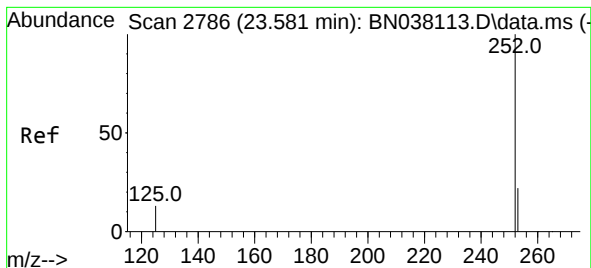
Ion Ratio Lower Upper

252 100

253 21.9 21.2 31.8

125 11.7 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 1.008 ng

RT: 23.598 min Scan# 21

Delta R.T. 0.020 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL

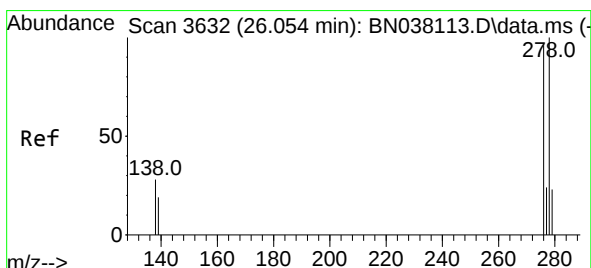
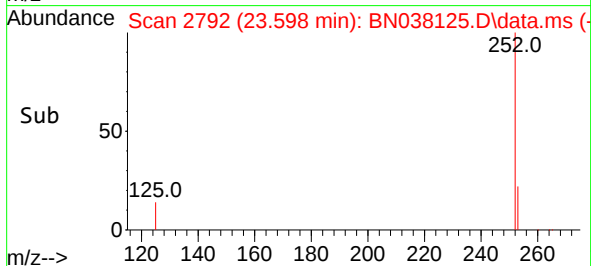
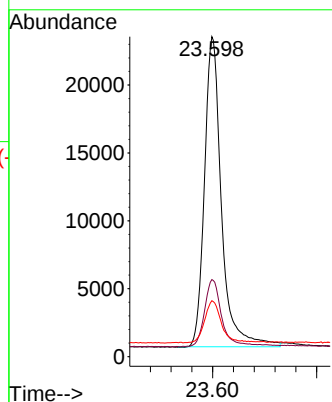
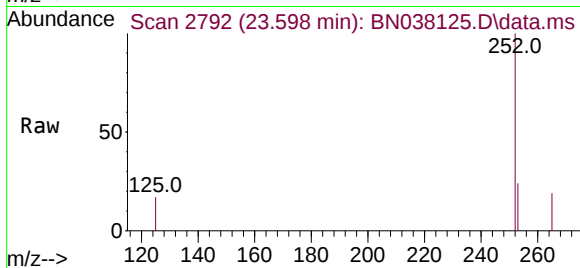
Tgt Ion:252 Resp: 59532

Ion Ratio Lower Upper

252 100

253 23.7 23.1 34.7

125 15.9 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 2.421 ng

RT: 26.077 min Scan# 3640

Delta R.T. 0.029 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

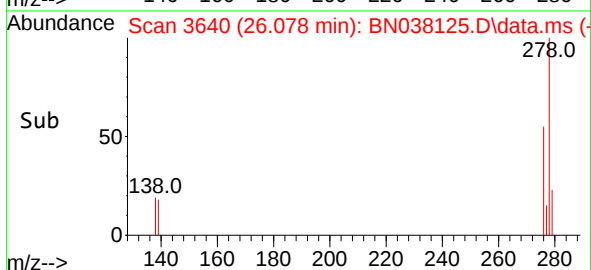
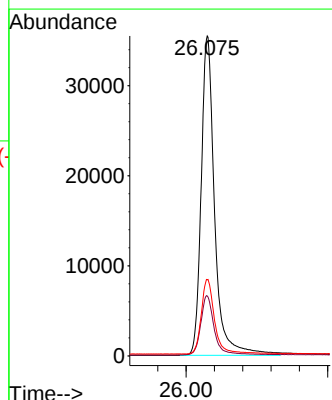
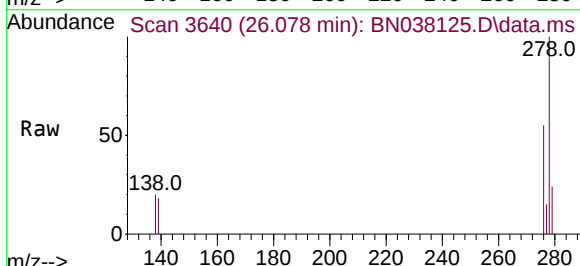
Tgt Ion:278 Resp: 132156

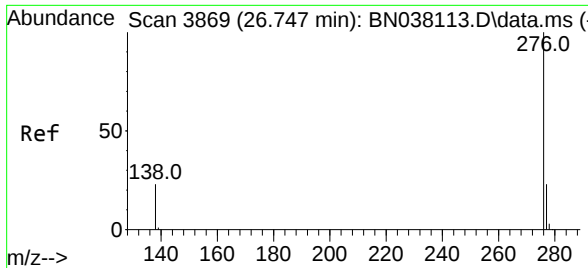
Ion Ratio Lower Upper

278 100

139 18.0 17.6 26.4

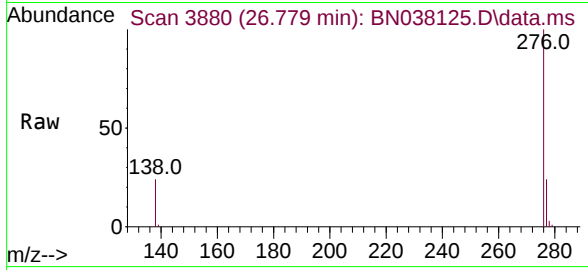
279 23.8 22.6 33.8





#41
Benzo(g,h,i)perylene
Concen: 1.143 ng
RT: 26.779 min Scan# 38
Delta R.T. 0.029 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Instrument :
BNA_N
ClientSampleId :
38072-061125DL



Tgt Ion:276 Resp: 71261
Ion Ratio Lower Upper
276 100
277 23.8 19.7 29.5
138 24.3 20.2 30.4

