

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037011.D
 Acq On : 14 May 2025 12:03
 Operator : RC/JU
 Sample : Q2000-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-062223

Quant Time: May 14 12:28:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

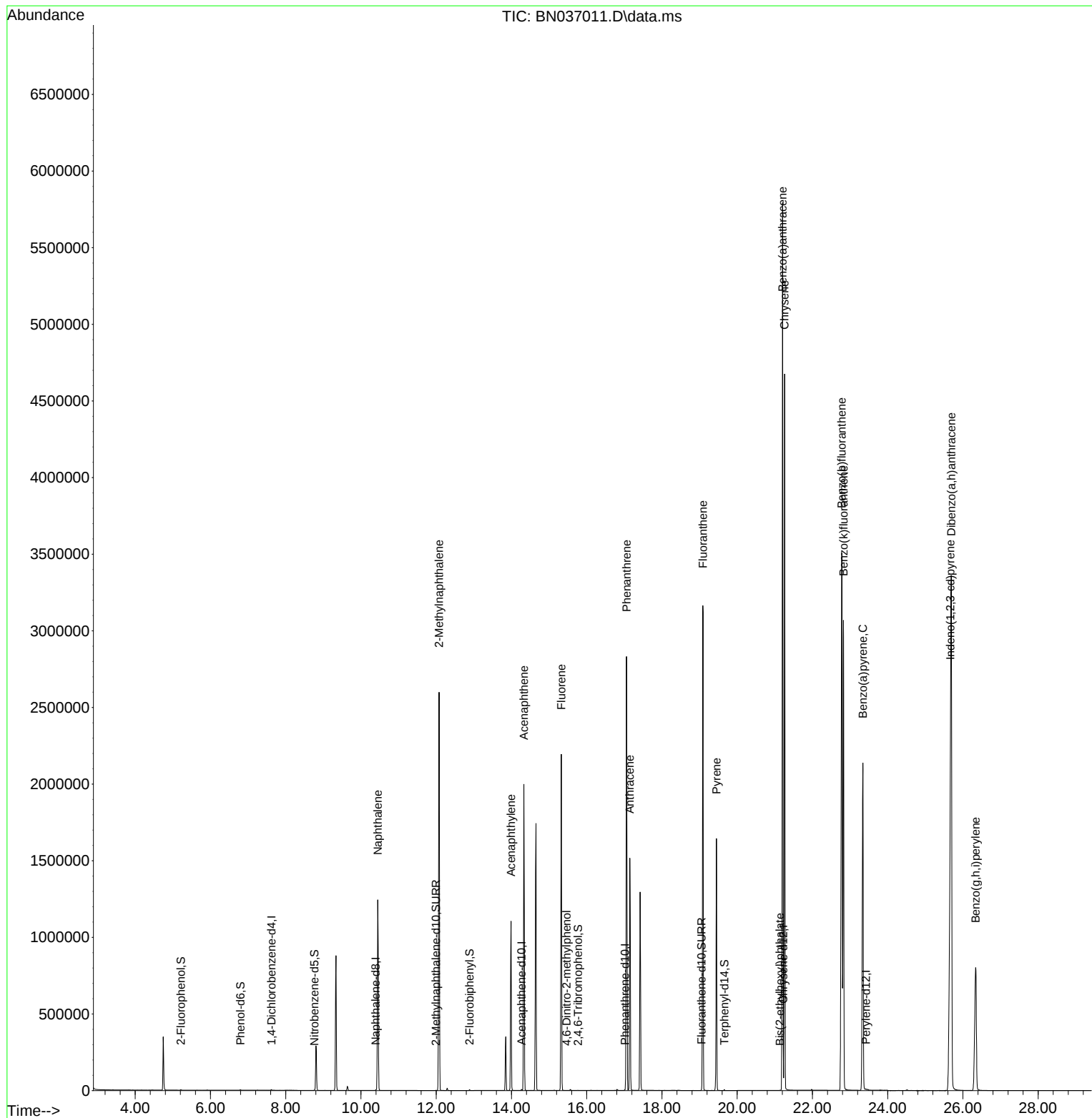
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1757	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	5094	0.400	ng	#-0.01
13) Acenaphthene-d10	14.267	164	3120	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6557	0.400	ng	# 0.01
29) Chrysene-d12	21.224	240	7178	0.400	ng	# 0.02
35) Perylene-d12	23.424	264	6518	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1776	0.386	ng	0.00
5) Phenol-d6	6.795	99	2191	0.380	ng	0.00
8) Nitrobenzene-d5	8.760	82	2099	0.378	ng	-0.01
11) 2-Methylnaphthalene-d10	11.996	152	2850	0.397	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	476	0.347	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	5516	0.386	ng	0.00
27) Fluoranthene-d10	19.054	212	7673	0.427	ng	0.00
31) Terphenyl-d14	19.658	244	5469	0.356	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.447	128	1512205	100.463	ng	96
12) 2-Methylnaphthalene	12.077	142	1729364	178.634	ng	98
16) Acenaphthylene	13.989	152	1122622	73.924	ng	100
17) Acenaphthene	14.331	154	893602	90.045	ng	95
18) Fluorene	15.325	166	1220508	93.761	ng	98
20) 4,6-Dinitro-2-methylph...	15.464	198	2	0.025	ng	# 1
25) Phenanthrene	17.058	178	2754841	128.555	ng	99
26) Anthracene	17.145	178	1581373	81.090	ng	99
28) Fluoranthene	19.091	202	2763340	107.950	ng	99
30) Pyrene	19.449	202	1364347	44.436	ng	98
32) Benzo(a)anthracene	21.206	228	4673852	172.934	ng	99
33) Chrysene	21.260	228	3329241	116.460	ng	97
34) Bis(2-ethylhexyl)phtha...	21.135	149	780	0.047	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.669	276	3318399	124.658	ng	96
37) Benzo(b)fluoranthene	22.781	252	5192757	192.067	ng	# 88
38) Benzo(k)fluoranthene	22.825	252	3351501	125.521	ng	# 90
39) Benzo(a)pyrene	23.339	252	3031565	132.187	ng	# 79
40) Dibenzo(a,h)anthracene	25.690	278	3885738	187.397	ng	# 89
41) Benzo(g,h,i)perylene	26.336	276	1647820	73.143	ng	97

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

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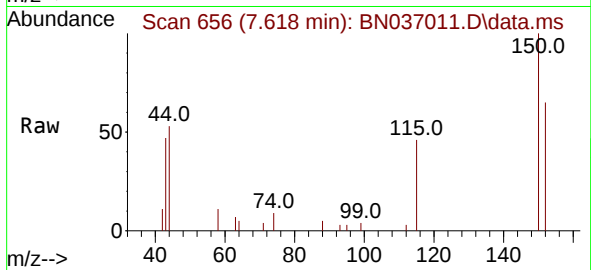
Quant Time: May 14 12:28:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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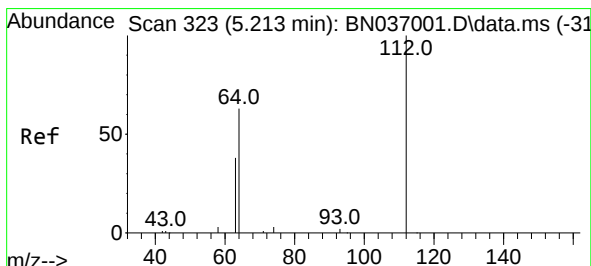
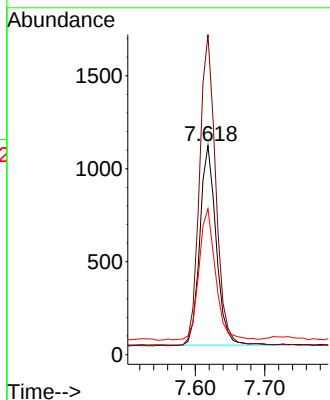
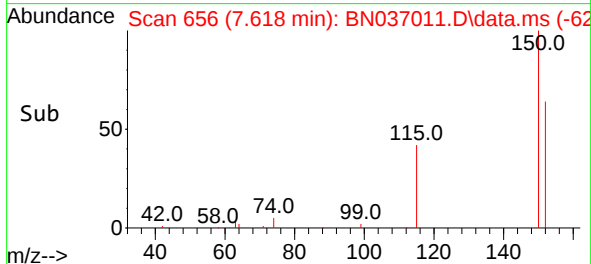


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.618 min Scan# 656
 Delta R.T. 0.000 min
 Lab File: BN037011.D
 Acq: 14 May 2025 12:03

Instrument :
 BNA_N
 ClientSampleId :
 38072-062223

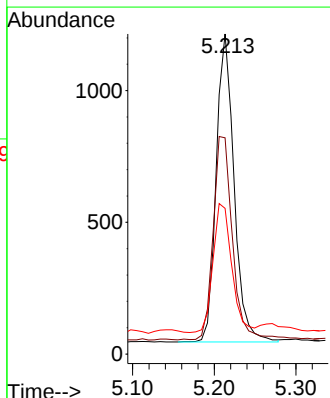
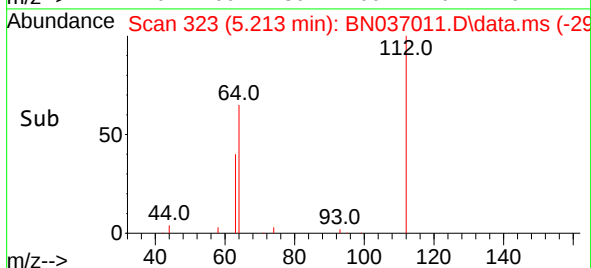
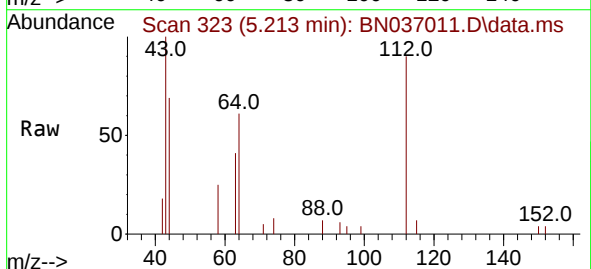


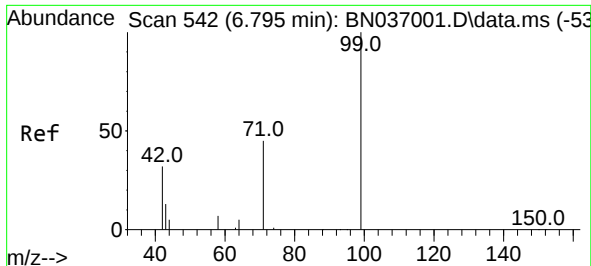
Tgt Ion:152 Resp: 1757
 Ion Ratio Lower Upper
 152 100
 150 153.0 123.9 185.9
 115 69.8 55.8 83.8



#4
 2-Fluorophenol
 Concen: 0.386 ng
 RT: 5.213 min Scan# 323
 Delta R.T. 0.000 min
 Lab File: BN037011.D
 Acq: 14 May 2025 12:03

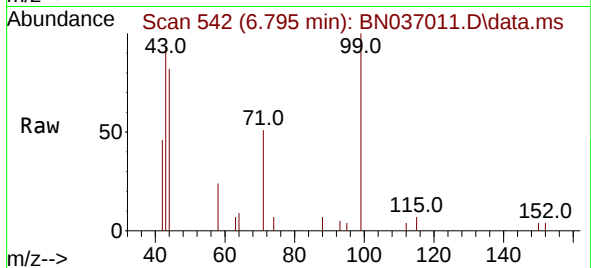
Tgt Ion:112 Resp: 1776
 Ion Ratio Lower Upper
 112 100
 64 72.1 55.7 83.5
 63 43.8 34.6 51.8



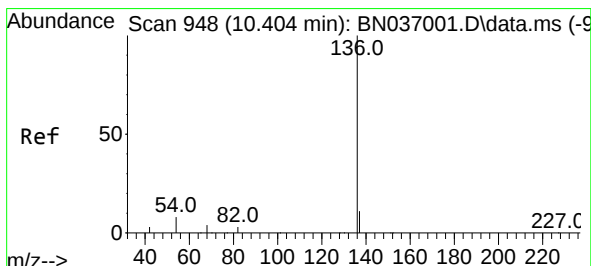
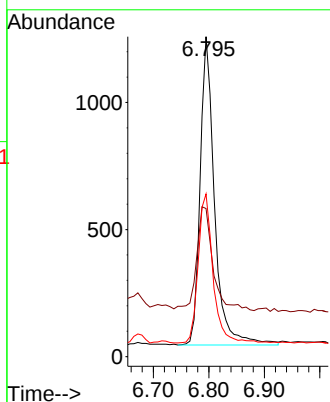
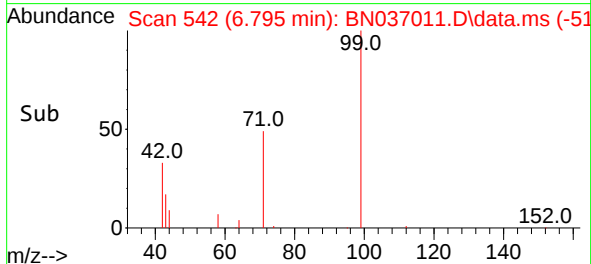


#5
Phenol-d6
Concen: 0.380 ng
RT: 6.795 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

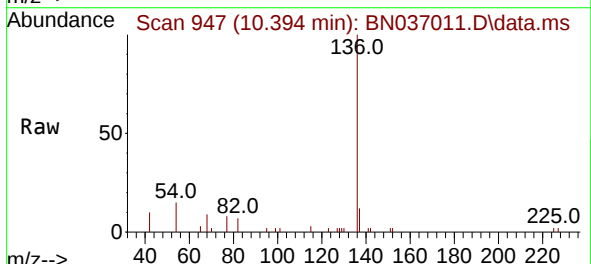
Instrument :
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38072-062223



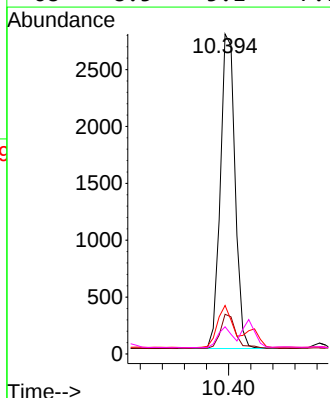
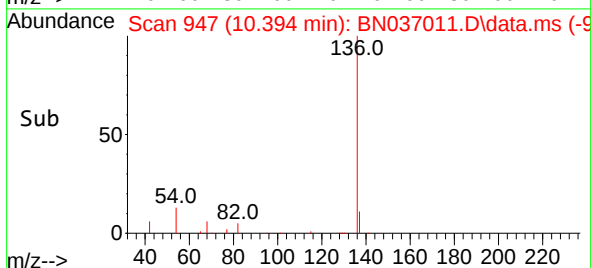
Tgt Ion:	99	Resp:	2191
Ion	Ratio	Lower	Upper
99	100		
42	38.3	29.3	43.9
71	49.7	35.7	53.5

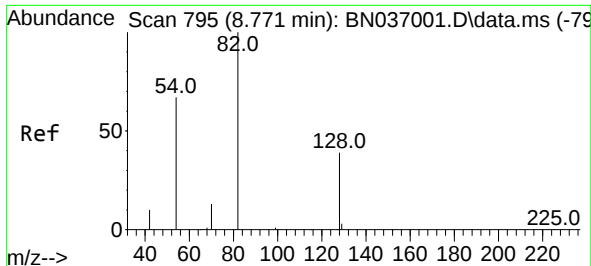


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03



Tgt Ion:	136	Resp:	5094
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	15.2	8.5	12.7#
68	8.5	5.1	7.7#

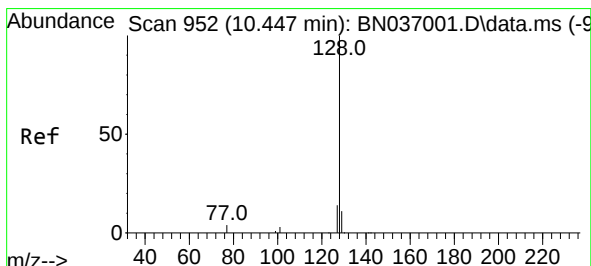
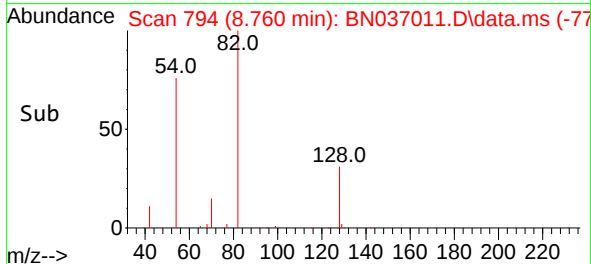
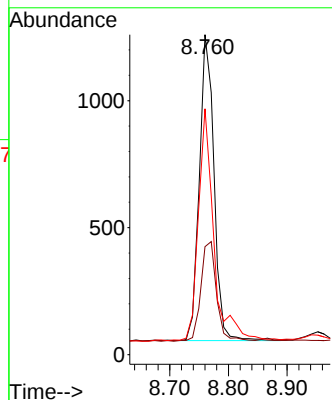
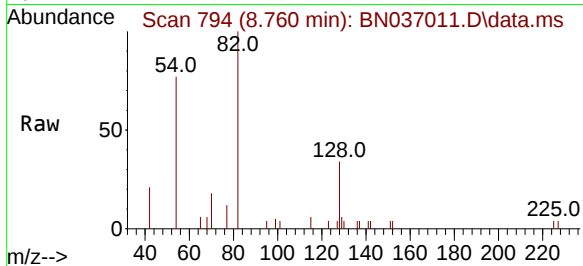




#8
Nitrobenzene-d5
Concen: 0.378 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

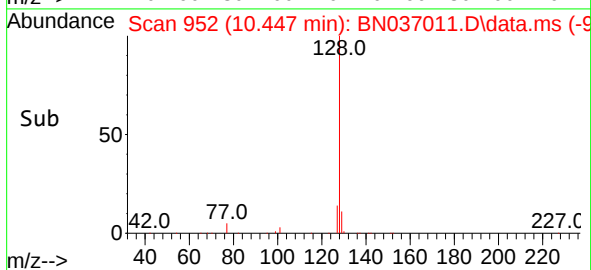
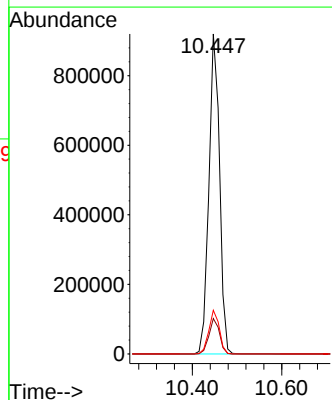
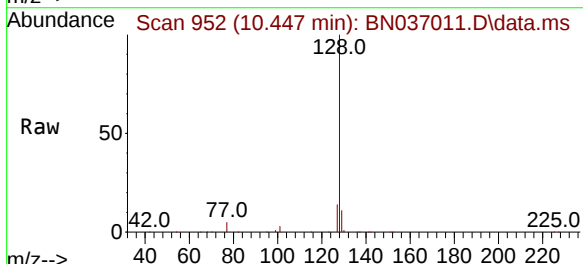
Instrument :
BNA_N
ClientSampleId :
38072-062223

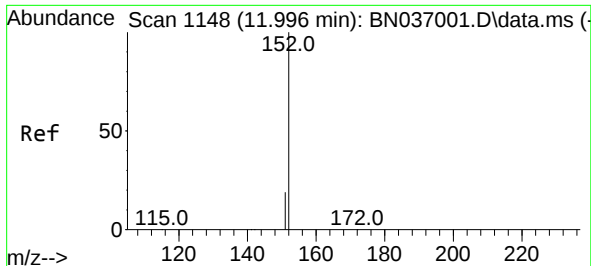
Tgt Ion: 82 Resp: 2099
Ion Ratio Lower Upper
82 100
128 33.7 34.0 51.0#
54 76.8 55.0 82.4



#9
Naphthalene
Concen: 100.463 ng
RT: 10.447 min Scan# 952
Delta R.T. 0.000 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Tgt Ion: 128 Resp: 1512205
Ion Ratio Lower Upper
128 100
129 11.0 9.7 14.5
127 13.7 12.4 18.6

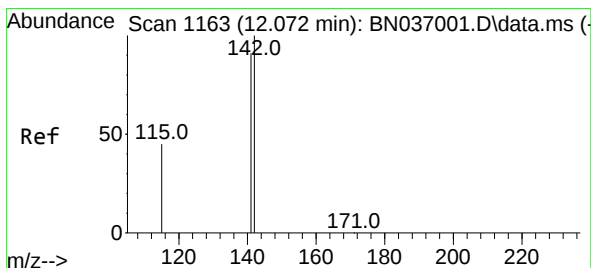
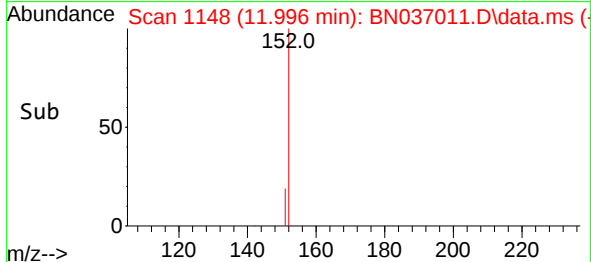
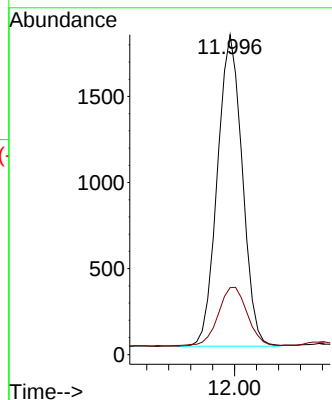
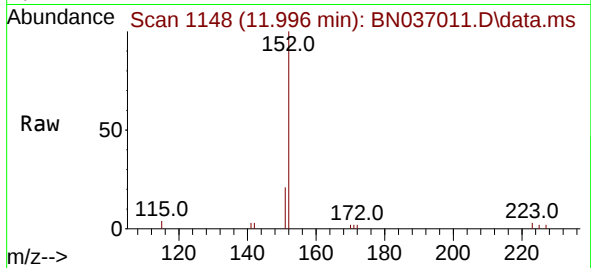




#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

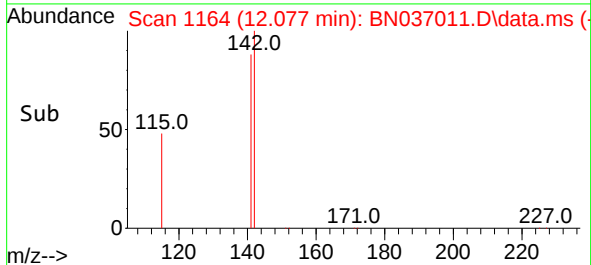
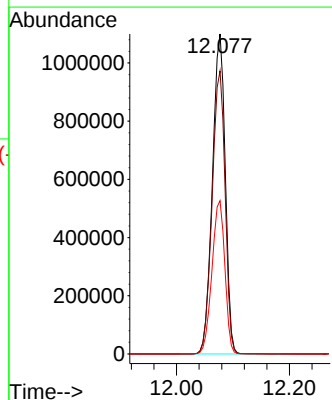
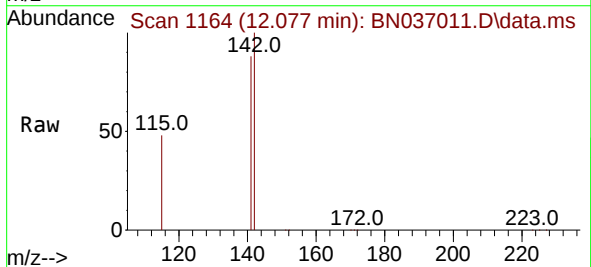
Instrument :
BNA_N
ClientSampleId :
38072-062223

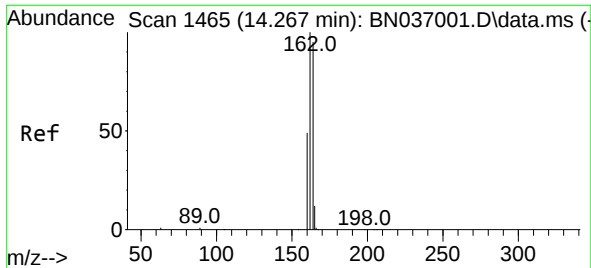
Tgt Ion:152 Resp: 2850
Ion Ratio Lower Upper
152 100
151 21.9 17.5 26.3



#12
2-Methylnaphthalene
Concen: 178.634 ng
RT: 12.077 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Tgt Ion:142 Resp: 1729364
Ion Ratio Lower Upper
142 100
141 88.5 73.3 109.9
115 47.9 38.4 57.6

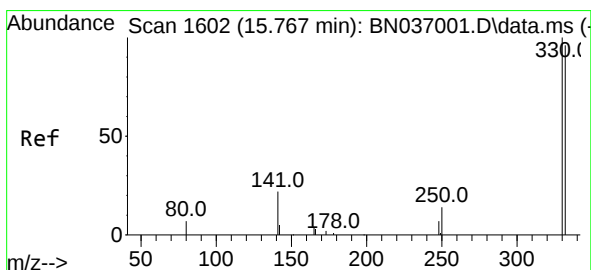
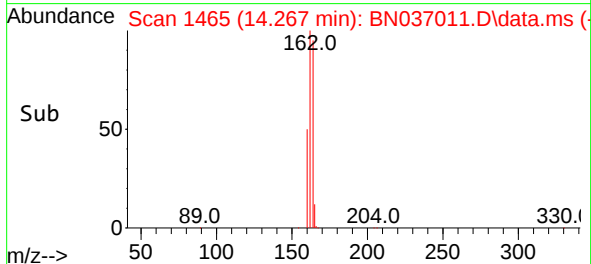
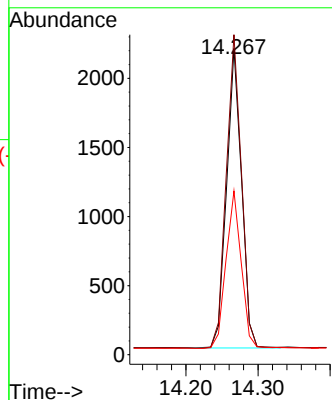
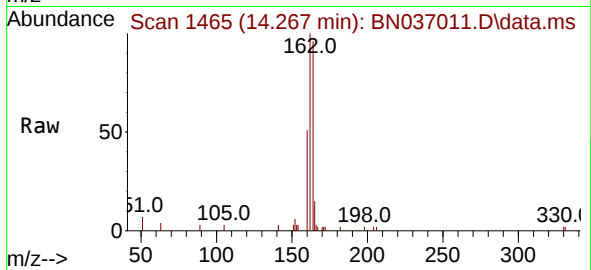




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

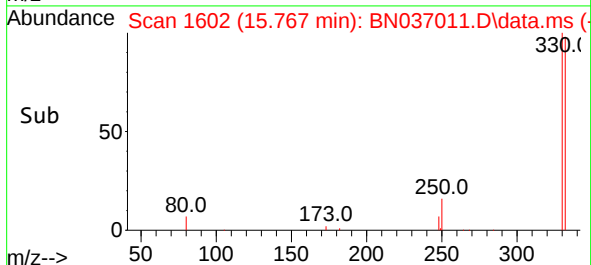
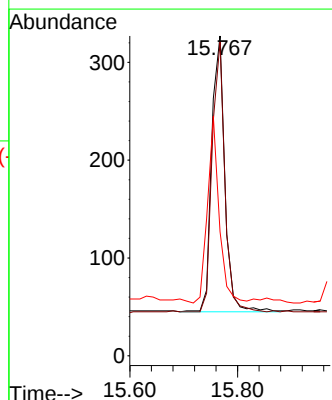
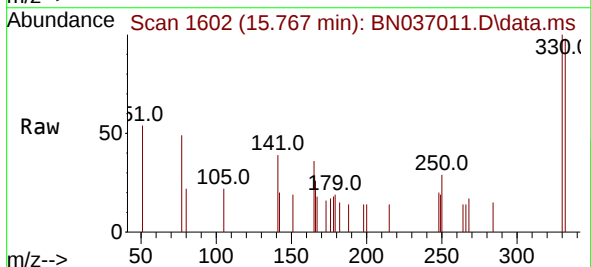
Instrument :
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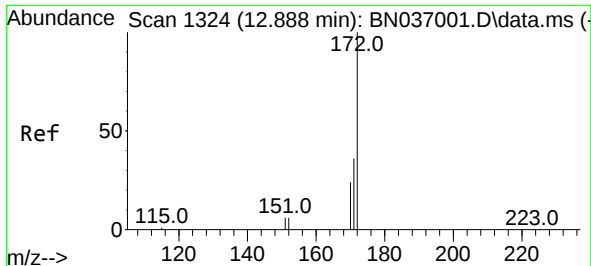
Tgt Ion:164 Resp: 3120
Ion Ratio Lower Upper
164 100
162 104.5 84.2 126.4
160 53.5 42.6 63.8



#14
2,4,6-Tribromophenol
Concen: 0.347 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Tgt Ion:330 Resp: 476
Ion Ratio Lower Upper
330 100
332 93.5 73.8 110.8
141 60.3 43.9 65.9

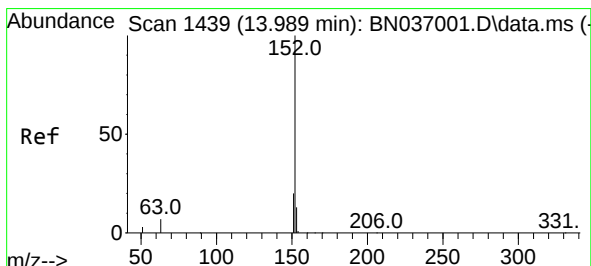
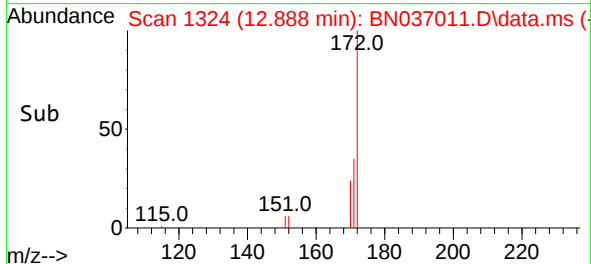
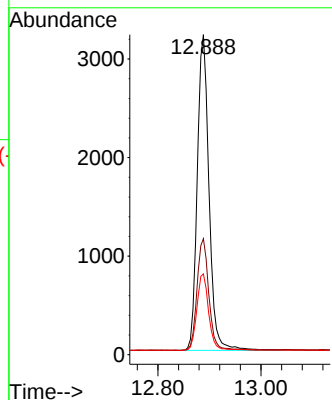
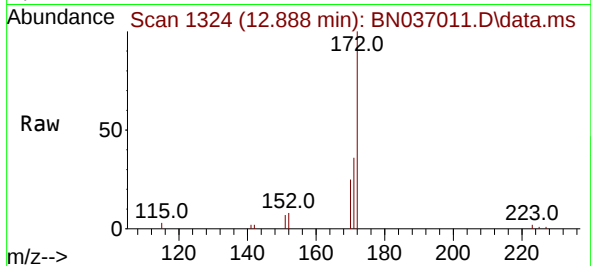




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

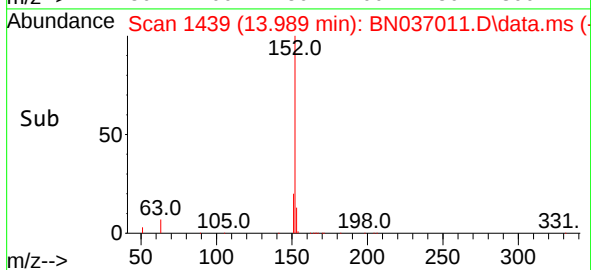
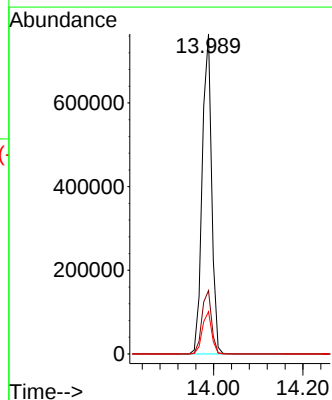
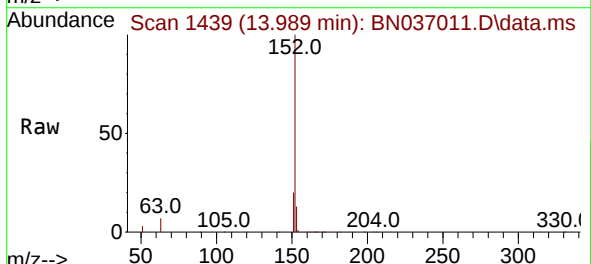
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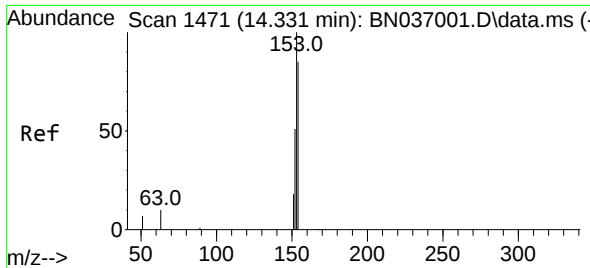
Tgt Ion:172 Resp: 5516
Ion Ratio Lower Upper
172 100
171 36.3 29.2 43.8
170 25.3 20.5 30.7



#16
Acenaphthylene
Concen: 73.924 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Tgt Ion:152 Resp: 1122622
Ion Ratio Lower Upper
152 100
151 20.2 16.1 24.1
153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 90.045 ng

RT: 14.331 min Scan# 1471

Delta R.T. -0.000 min

Lab File: BN037011.D

Acq: 14 May 2025 12:03

Instrument :

BNA_N

ClientSampleId :

38072-062223

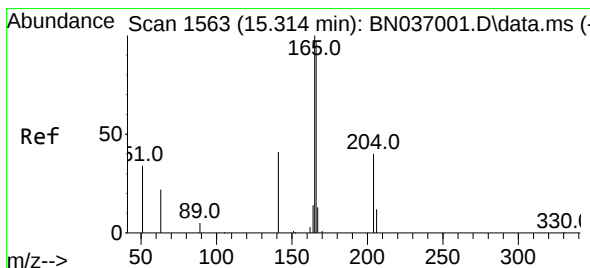
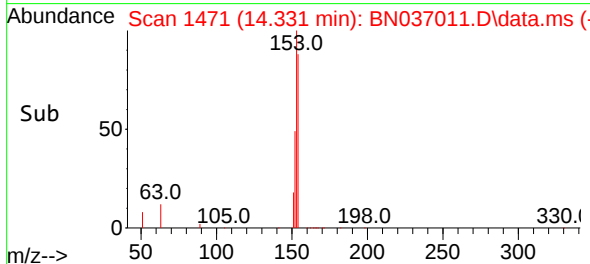
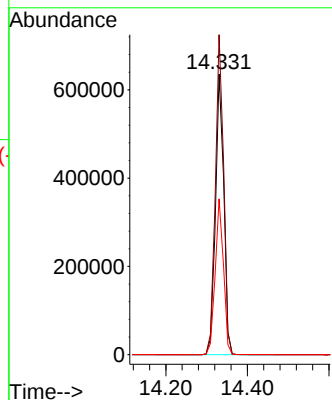
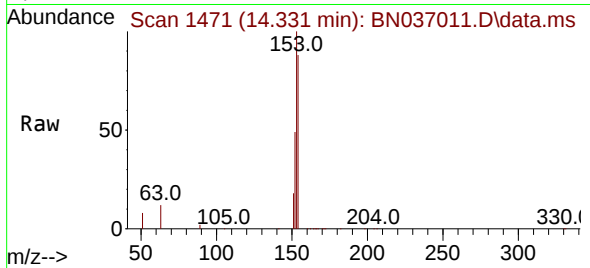
Tgt Ion:154 Resp: 893602

Ion Ratio Lower Upper

154 100

153 114.1 94.2 141.4

152 55.5 49.4 74.0



#18

Fluorene

Concen: 93.761 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.011 min

Lab File: BN037011.D

Acq: 14 May 2025 12:03

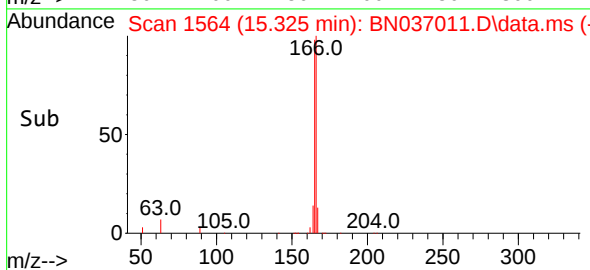
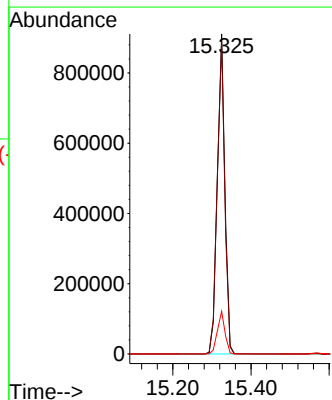
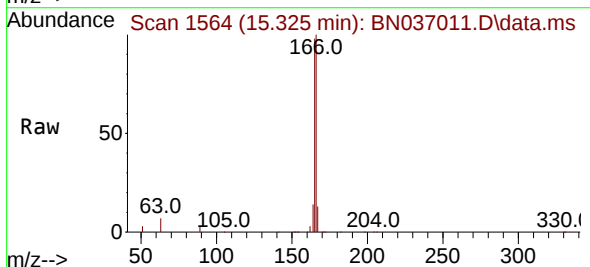
Tgt Ion:166 Resp: 1220508

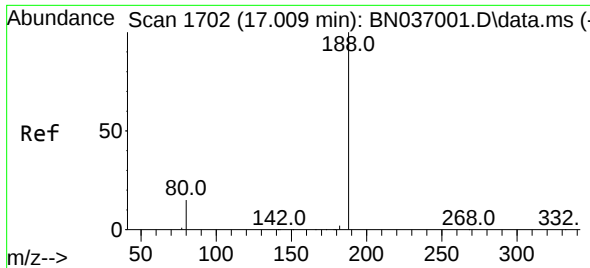
Ion Ratio Lower Upper

166 100

165 98.2 80.6 120.8

167 13.3 10.6 16.0

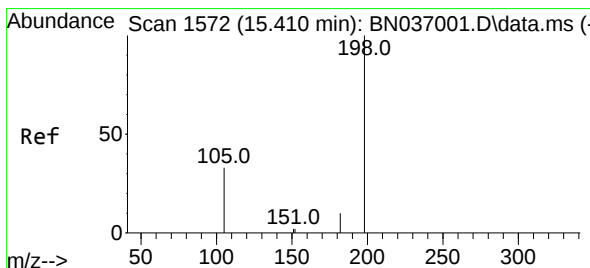
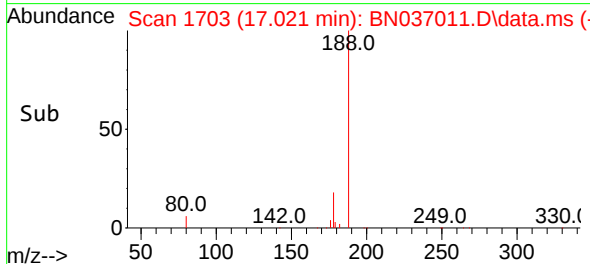
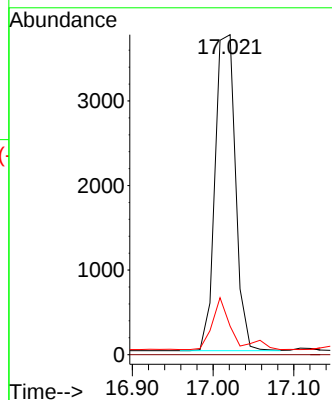
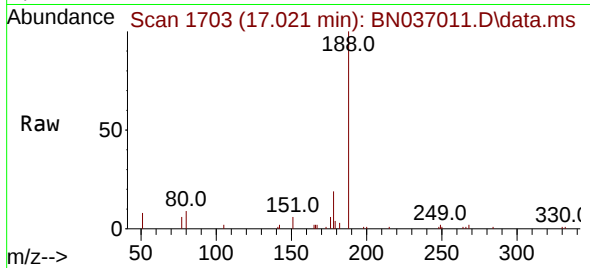




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. 0.012 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

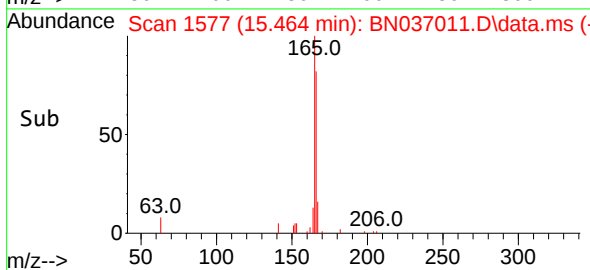
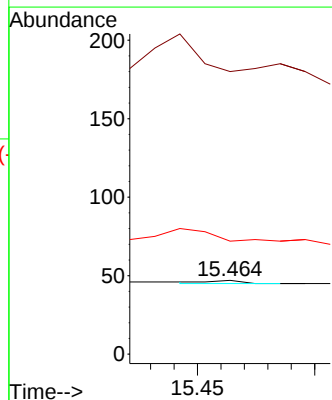
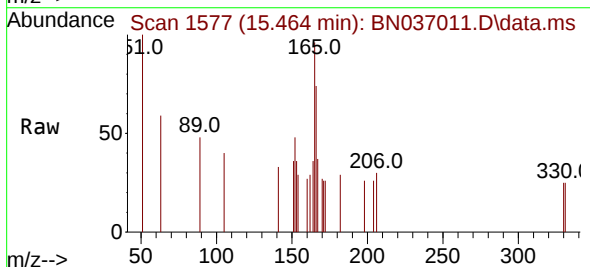
Instrument :
BNA_N
ClientSampleId :
38072-062223

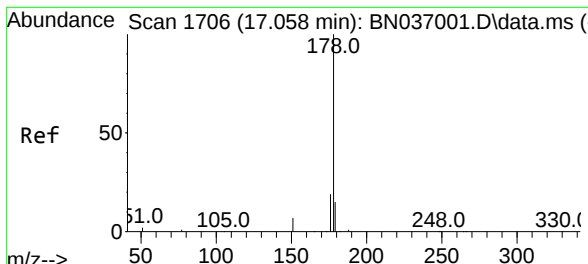
Tgt Ion:188 Resp: 6557
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.9 13.4 20.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.025 ng
RT: 15.464 min Scan# 1577
Delta R.T. 0.054 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Tgt Ion:198 Resp: 2
Ion Ratio Lower Upper
198 100
51 383.0 87.8 131.6#
105 153.2 44.2 66.4#



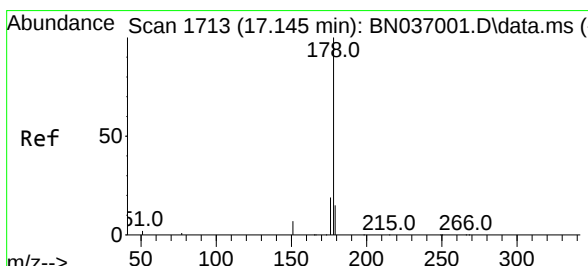
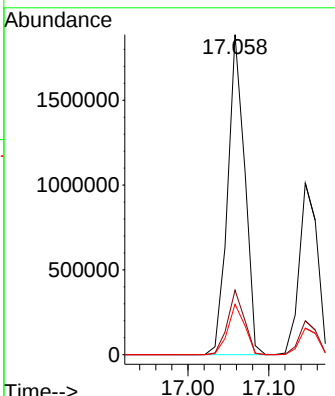
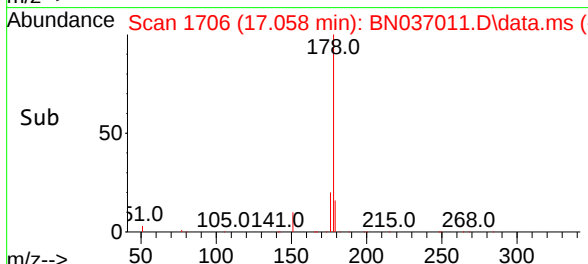
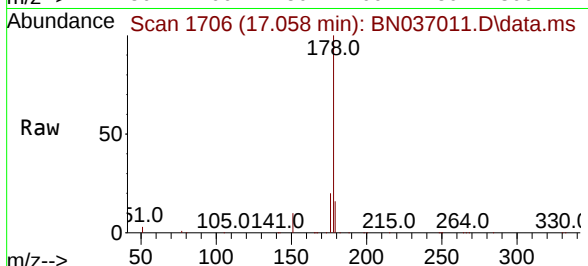


#25
 Phenanthrene
 Concen: 128.555 ng
 RT: 17.058 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: BN037011.D
 Acq: 14 May 2025 12:03

Instrument :
 BNA_N
 ClientSampleId :
 38072-062223

Tgt Ion:178 Resp: 2754841

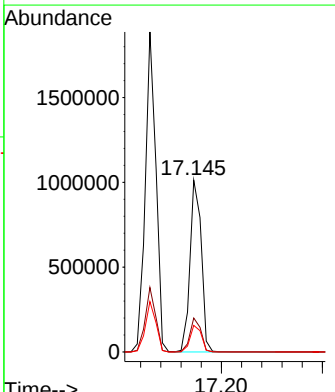
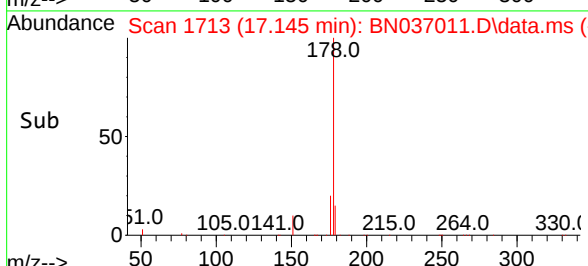
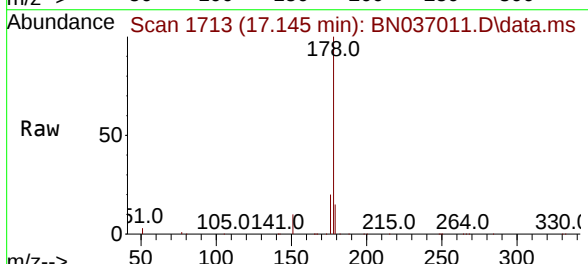
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.6	12.2	18.2

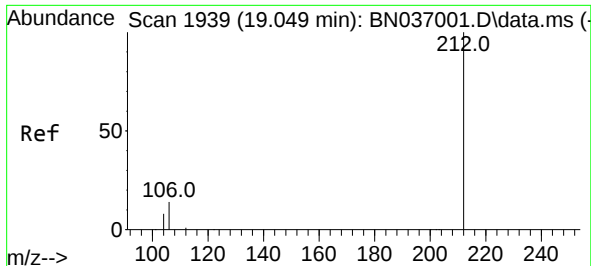


#26
 Anthracene
 Concen: 81.090 ng
 RT: 17.145 min Scan# 1713
 Delta R.T. 0.000 min
 Lab File: BN037011.D
 Acq: 14 May 2025 12:03

Tgt Ion:178 Resp: 1581373

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.0	22.6
179	15.5	12.3	18.5

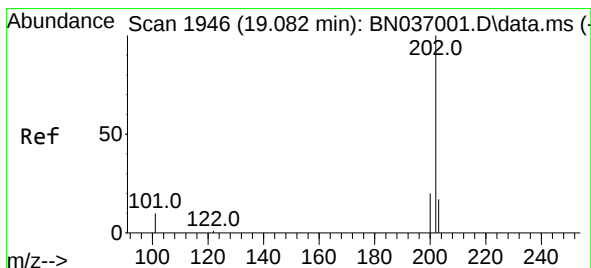
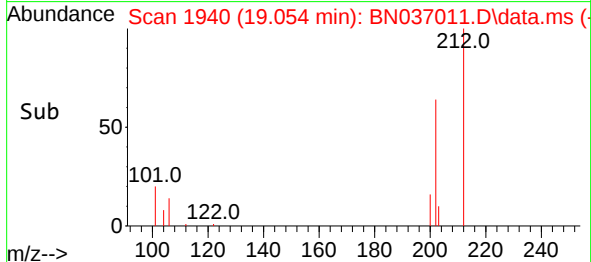
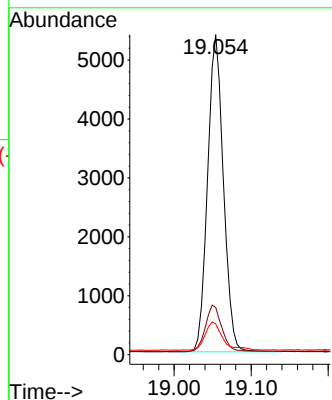
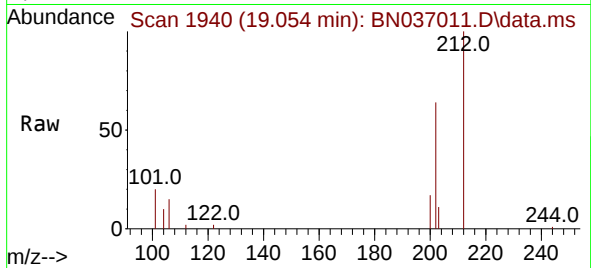




#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.054 min Scan# 1940
Delta R.T. 0.005 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

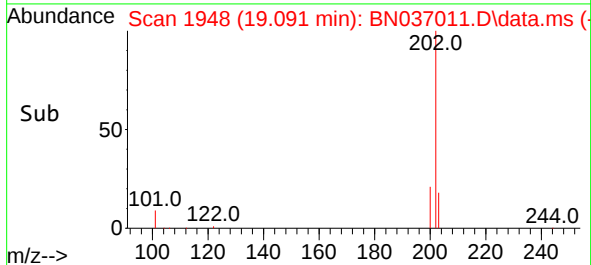
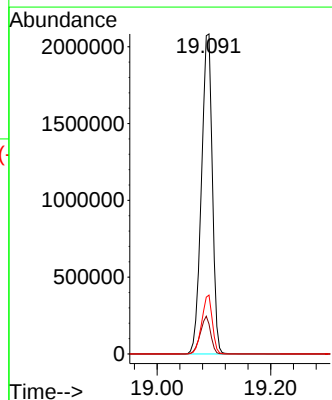
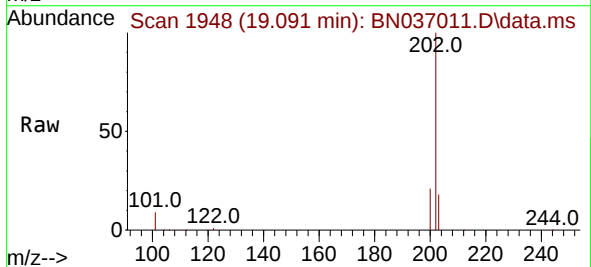
Instrument :
BNA_N
ClientSampleId :
38072-062223

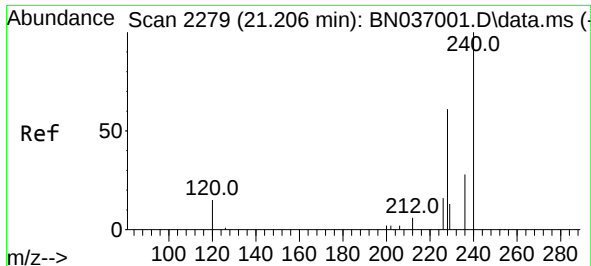
Tgt Ion:212 Resp: 7673
Ion Ratio Lower Upper
212 100
106 15.0 11.3 16.9
104 9.7 6.7 10.1



#28
Fluoranthene
Concen: 107.950 ng
RT: 19.091 min Scan# 1948
Delta R.T. 0.009 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Tgt Ion:202 Resp: 2763340
Ion Ratio Lower Upper
202 100
101 11.2 8.9 13.3
203 17.9 13.8 20.8

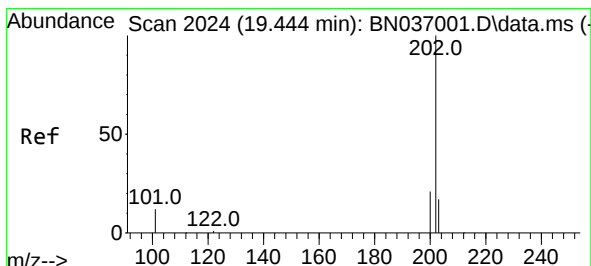
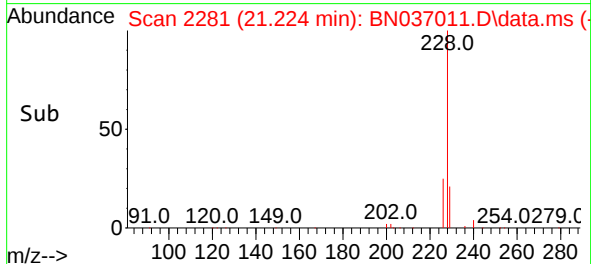
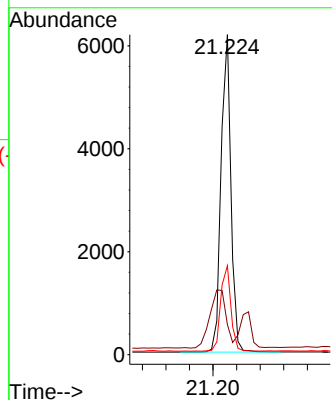
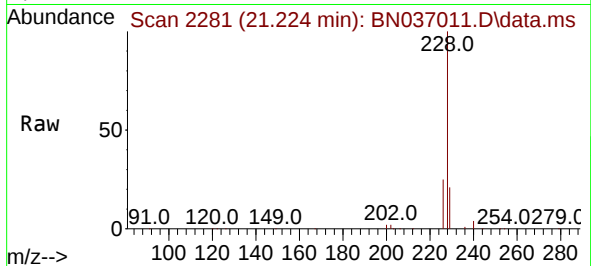




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.224 min Scan# 21
Delta R.T. 0.018 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

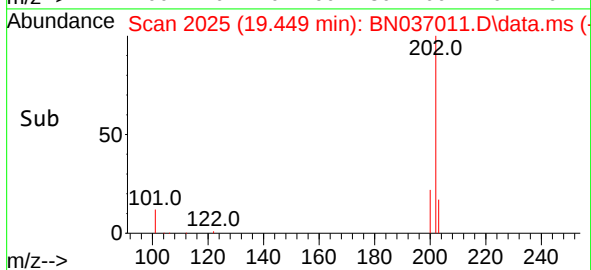
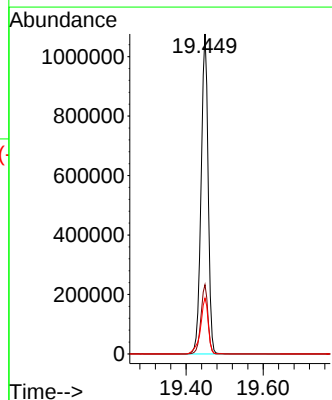
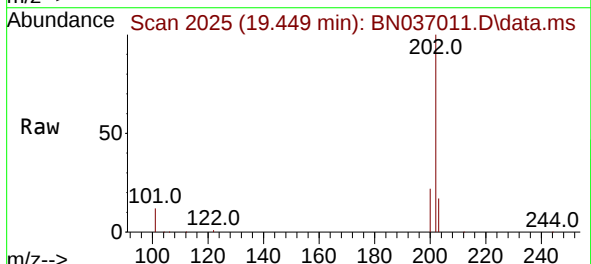
Instrument :
BNA_N
ClientSampleId :
38072-062223

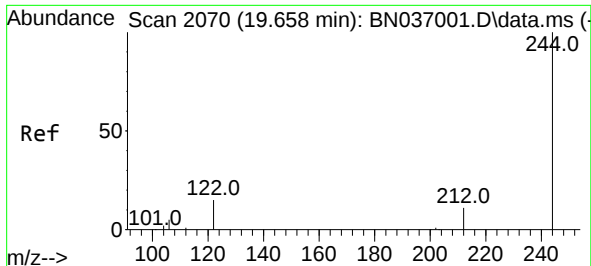
Tgt Ion:240 Resp: 7178
Ion Ratio Lower Upper
240 100
120 9.4 15.1 22.7#
236 27.8 24.0 36.0



#30
Pyrene
Concen: 44.436 ng
RT: 19.449 min Scan# 2025
Delta R.T. 0.005 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Tgt Ion:202 Resp: 1364347
Ion Ratio Lower Upper
202 100
200 21.7 17.1 25.7
203 19.2 14.2 21.4

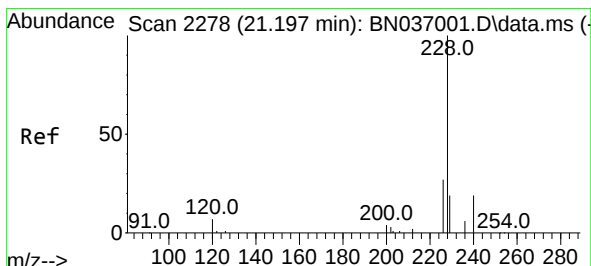
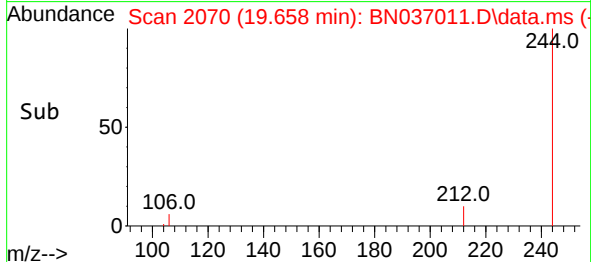
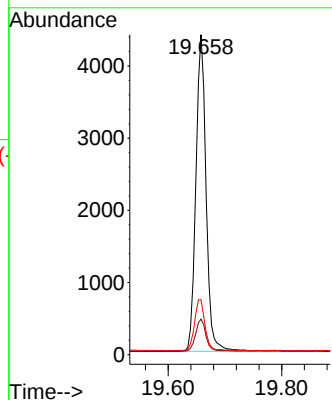
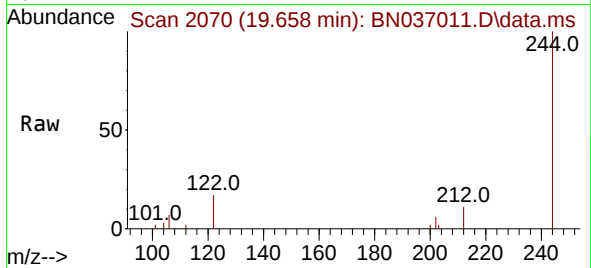




#31
 Terphenyl-d14
 Concen: 0.356 ng
 RT: 19.658 min Scan# 2070
 Delta R.T. 0.000 min
 Lab File: BN037011.D
 Acq: 14 May 2025 12:03

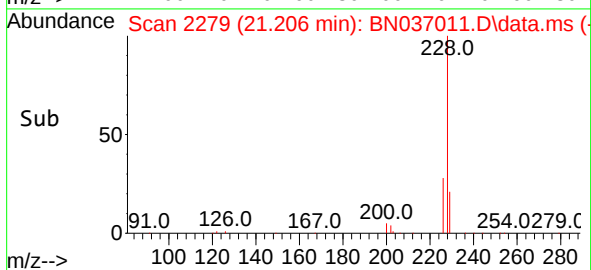
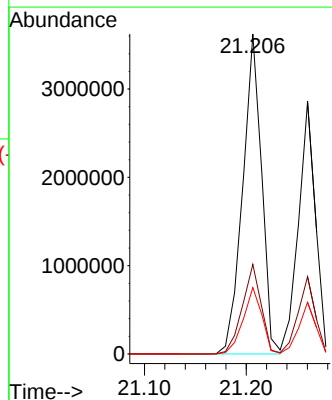
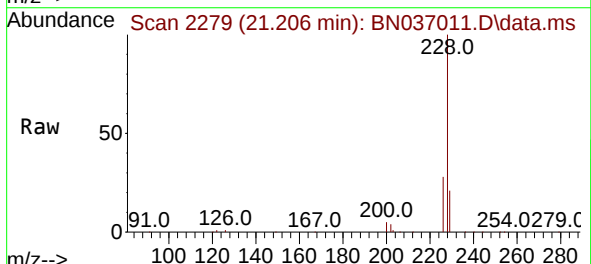
Instrument :
 BNA_N
 ClientSampleId :
 38072-062223

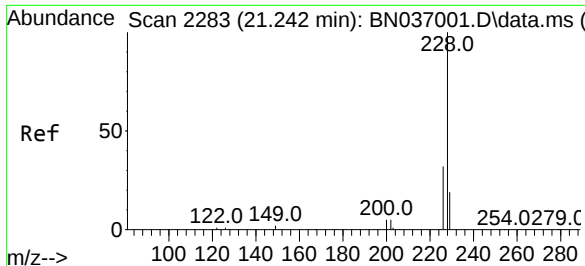
Tgt Ion:244 Resp: 5469
 Ion Ratio Lower Upper
 244 100
 212 11.1 9.7 14.5
 122 17.2 13.4 20.0



#32
 Benzo(a)anthracene
 Concen: 172.934 ng
 RT: 21.206 min Scan# 2279
 Delta R.T. 0.009 min
 Lab File: BN037011.D
 Acq: 14 May 2025 12:03

Tgt Ion:228 Resp: 4673852
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.2 33.4
 229 20.7 16.0 24.0





#33

Chrysene

Concen: 116.460 ng

RT: 21.260 min Scan# 21

Delta R.T. 0.018 min

Lab File: BN037011.D

Acq: 14 May 2025 12:03

Instrument :

BNA_N

ClientSampleId :

38072-062223

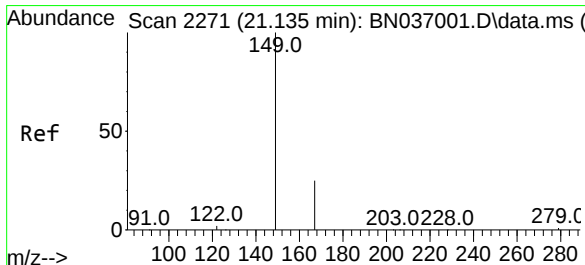
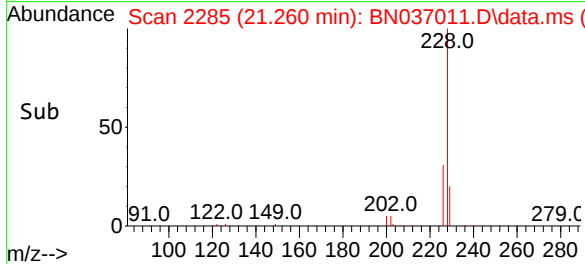
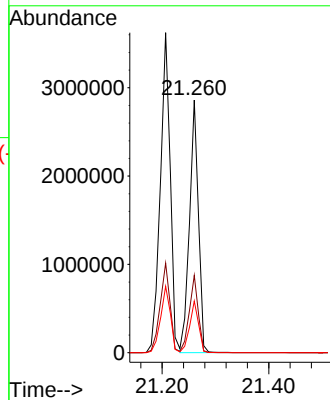
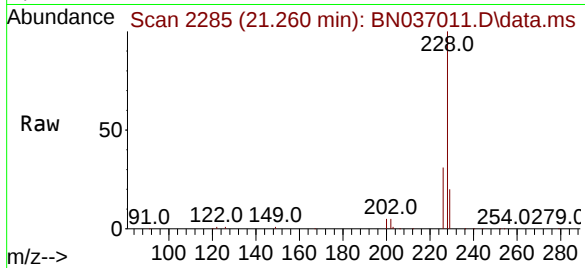
Tgt Ion:228 Resp: 3329241

Ion Ratio Lower Upper

228 100

226 30.6 26.3 39.5

229 20.5 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.047 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037011.D

Acq: 14 May 2025 12:03

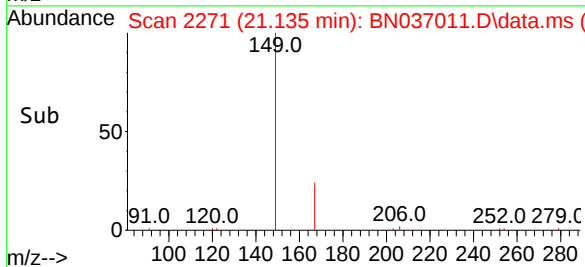
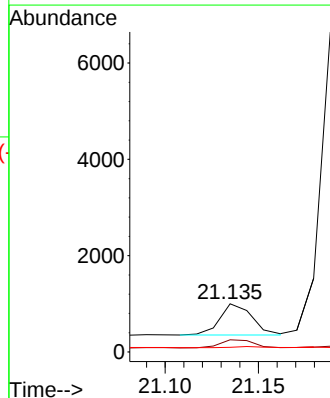
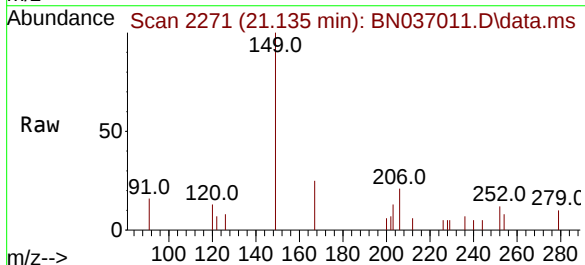
Tgt Ion:149 Resp: 780

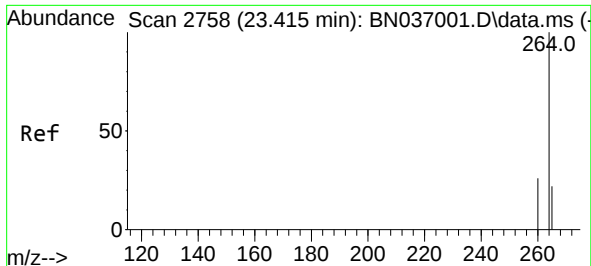
Ion Ratio Lower Upper

149 100

167 27.2 20.6 30.8

279 5.8 2.6 3.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.424 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037011.D

Acq: 14 May 2025 12:03

Instrument :

BNA_N

ClientSampleId :

38072-062223

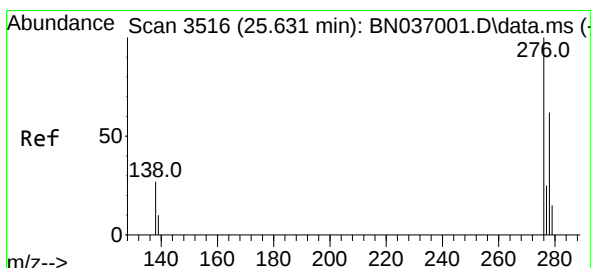
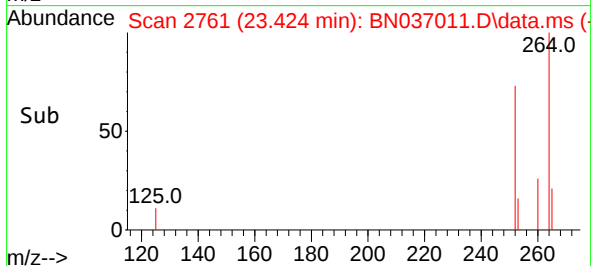
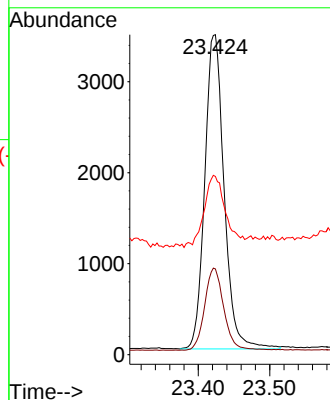
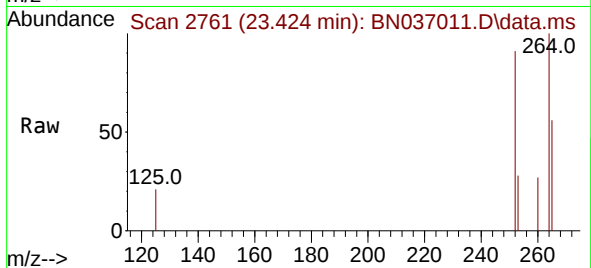
Tgt Ion:264 Resp: 6518

Ion Ratio Lower Upper

264 100

260 26.8 21.9 32.9

265 55.7 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 124.658 ng

RT: 25.669 min Scan# 3529

Delta R.T. 0.038 min

Lab File: BN037011.D

Acq: 14 May 2025 12:03

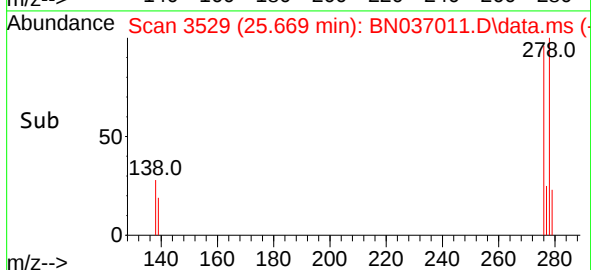
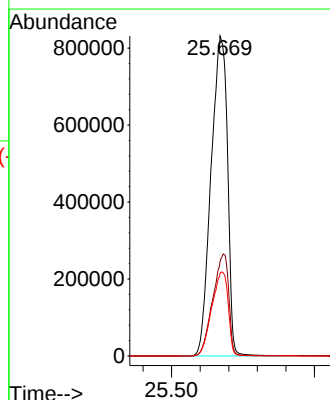
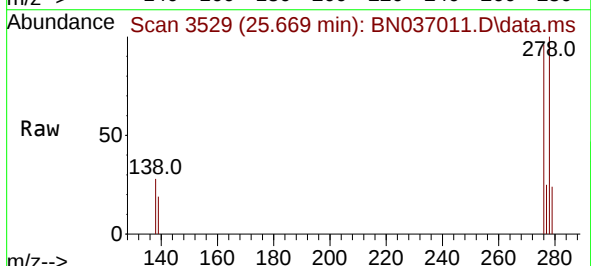
Tgt Ion:276 Resp: 3318399

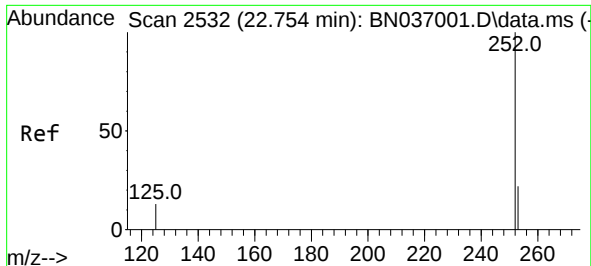
Ion Ratio Lower Upper

276 100

138 31.0 22.7 34.1

277 26.2 20.0 30.0

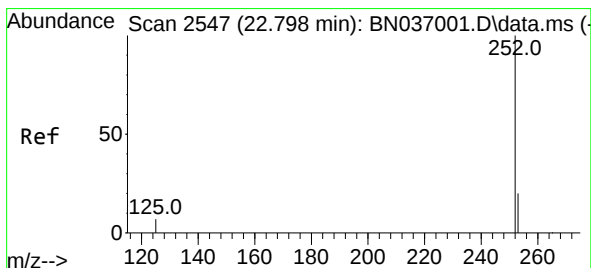
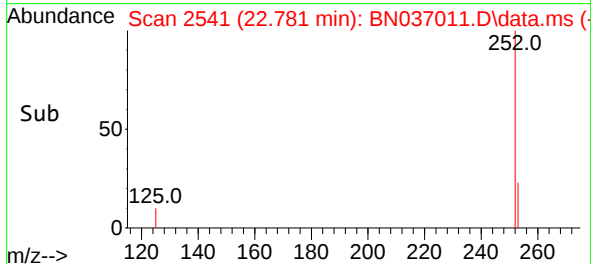
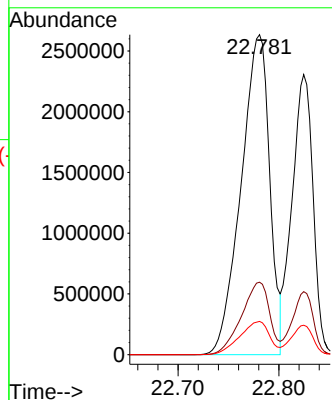
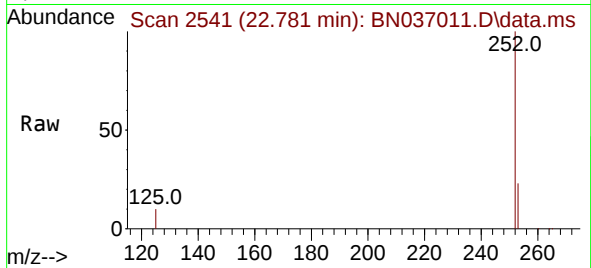




#37
Benzo(b)fluoranthene
Concen: 192.067 ng
RT: 22.781 min Scan# 21
Delta R.T. 0.026 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

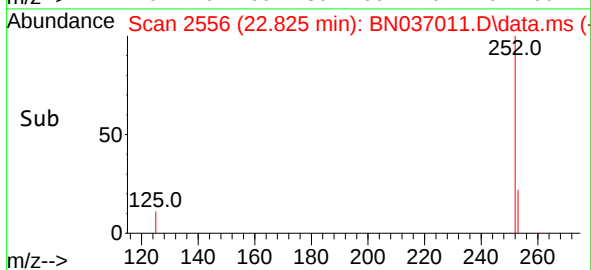
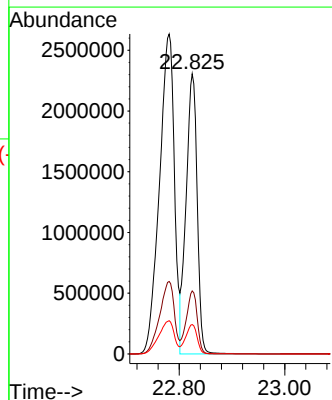
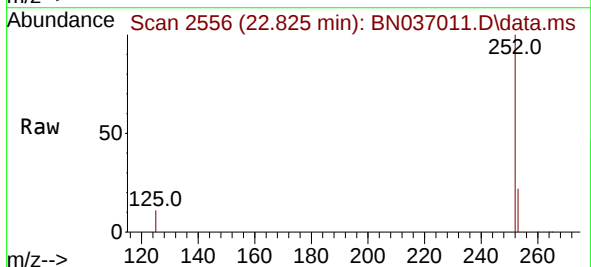
Instrument :
BNA_N
ClientSampleId :
38072-062223

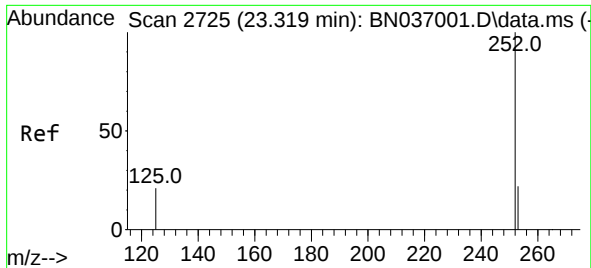
Tgt Ion:252 Resp: 5192757
Ion Ratio Lower Upper
252 100
253 22.7 21.8 32.6
125 10.4 14.6 21.8#



#38
Benzo(k)fluoranthene
Concen: 125.521 ng
RT: 22.825 min Scan# 2556
Delta R.T. 0.026 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

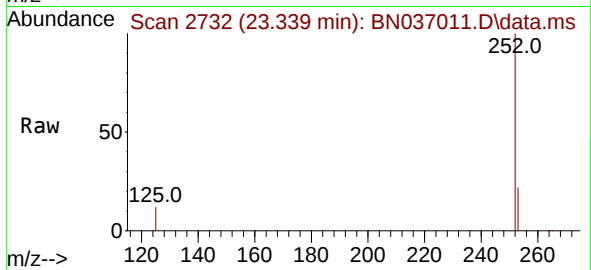
Tgt Ion:252 Resp: 3351501
Ion Ratio Lower Upper
252 100
253 22.5 21.4 32.2
125 10.5 13.0 19.4#



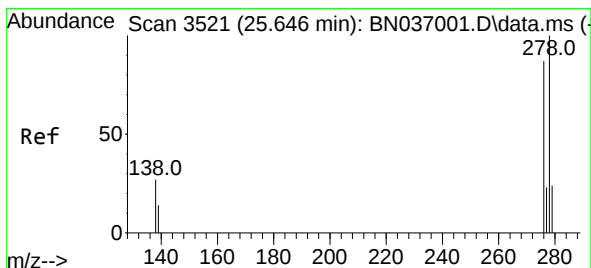
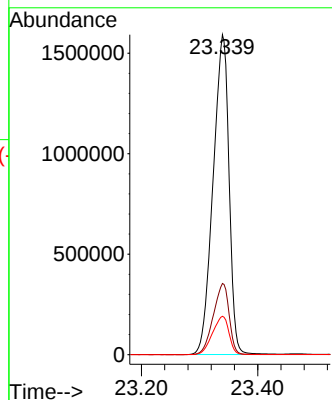


#39
Benzo(a)pyrene
Concen: 132.187 ng
RT: 23.339 min Scan# 21
Delta R.T. 0.020 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

Instrument :
BNA_N
ClientSampleId :
38072-062223

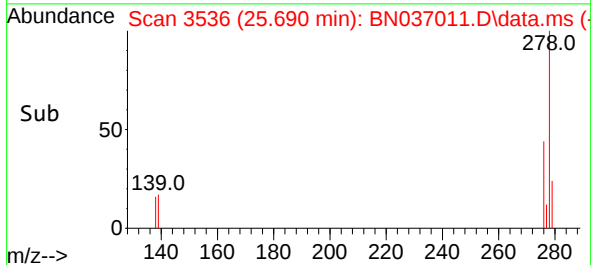
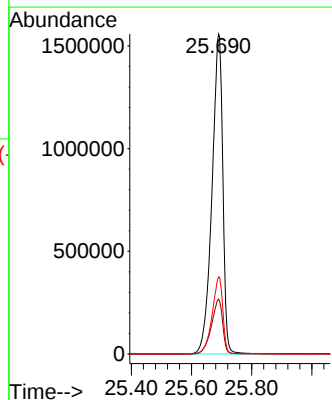
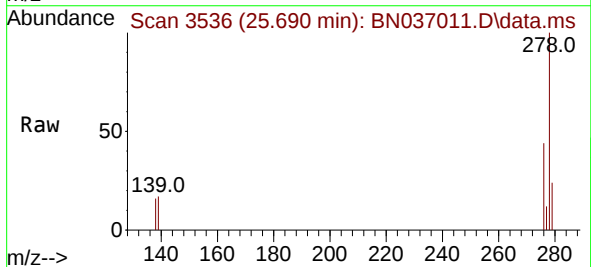


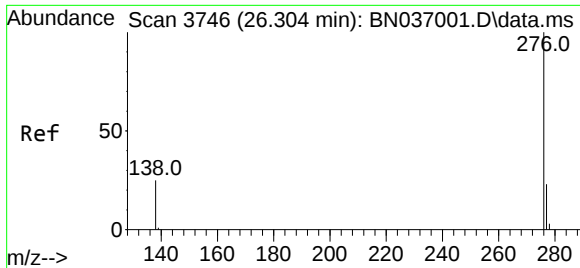
Tgt Ion:252 Resp: 3031565
Ion Ratio Lower Upper
252 100
253 22.2 23.8 35.6#
125 12.0 21.8 32.6#



#40
Dibenzo(a,h)anthracene
Concen: 187.397 ng
RT: 25.690 min Scan# 3536
Delta R.T. 0.044 min
Lab File: BN037011.D
Acq: 14 May 2025 12:03

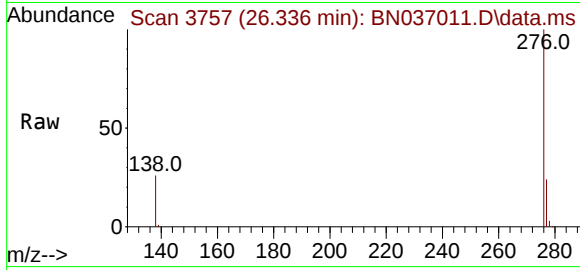
Tgt Ion:278 Resp: 3885738
Ion Ratio Lower Upper
278 100
139 17.1 17.4 26.0#
279 24.1 24.6 37.0#





#41
 Benzo(g,h,i)perylene
 Concen: 73.143 ng
 RT: 26.336 min Scan# 31
 Delta R.T. 0.032 min
 Lab File: BN037011.D
 Acq: 14 May 2025 12:03

Instrument :
 BNA_N
 ClientSampleId :
 38072-062223



Tgt Ion:276 Resp: 1647820
 Ion Ratio Lower Upper
 276 100
 277 23.6 20.2 30.4
 138 26.0 22.0 33.0

