

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037876.D
 Acq On : 24 Sep 2025 15:05
 Operator : RC/JU
 Sample : Q3015-21DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WPDL

Quant Time: Sep 24 15:47:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

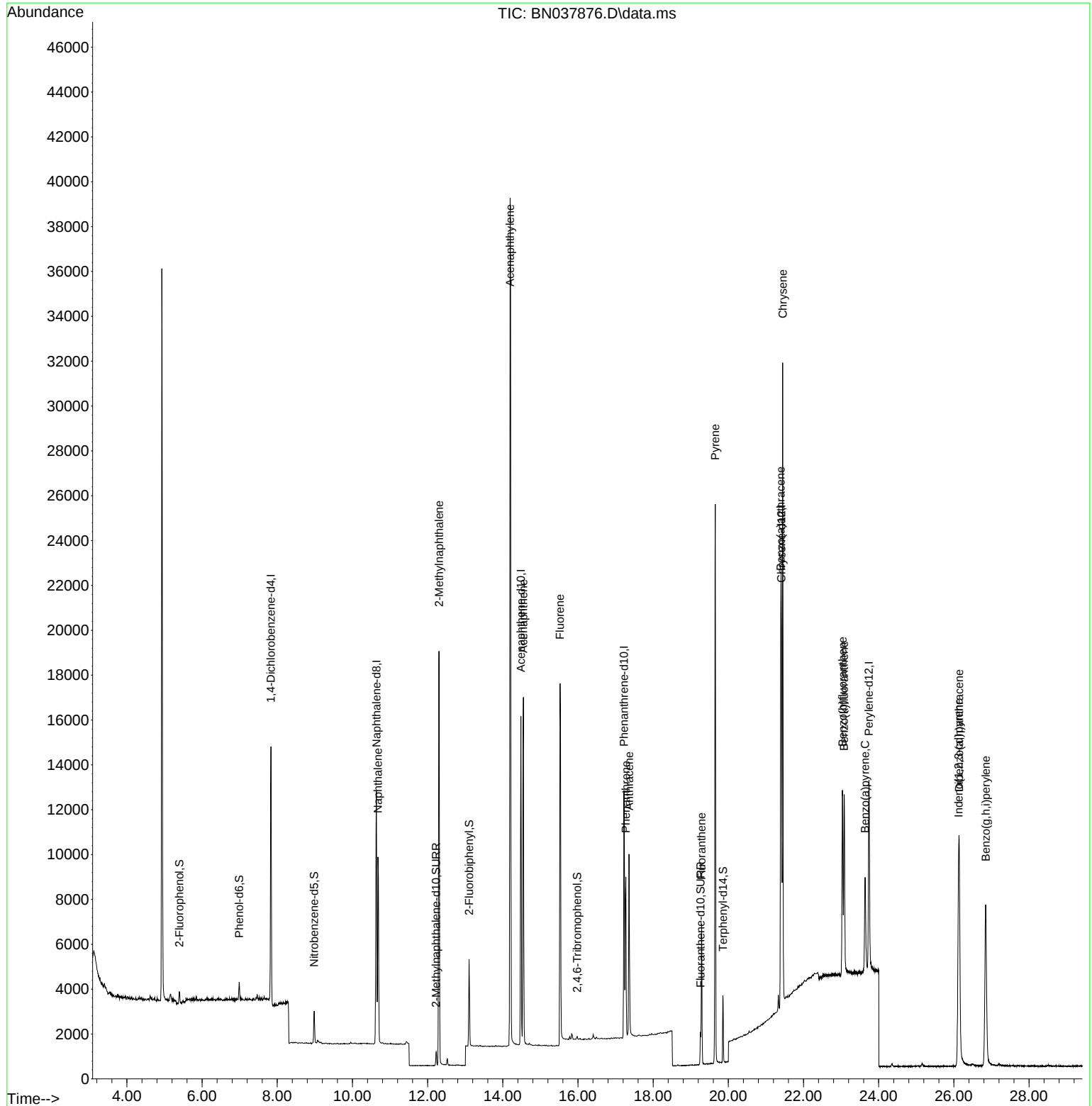
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5423	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15340	0.400	ng	0.01
13) Acenaphthene-d10	14.484	164	7909	0.400	ng	0.01
19) Phenanthrene-d10	17.223	188	15562	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13258	0.400	ng	0.00
35) Perylene-d12	23.741	264	12068	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	470	0.038	ng	0.01
5) Phenol-d6	6.988	99	656	0.040	ng	0.01
8) Nitrobenzene-d5	8.982	82	1161	0.099	ng	0.01
11) 2-Methylnaphthalene-d10	12.227	152	833	0.039	ng	0.01
14) 2,4,6-Tribromophenol	15.982	330	100	0.033	ng	0.01
15) 2-Fluorobiphenyl	13.105	172	3279	0.101	ng	0.01
27) Fluoranthene-d10	19.262	212	1557	0.040	ng	0.00
31) Terphenyl-d14	19.856	244	2854	0.108	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.680	128	11342	0.268	ng	100
12) 2-Methylnaphthalene	12.303	142	13198	0.478	ng	99
16) Acenaphthylene	14.195	152	44253	1.232	ng	100
17) Acenaphthene	14.548	154	7695	0.301	ng	98
18) Fluorene	15.522	166	12205	0.394	ng	99
25) Phenanthrene	17.273	178	8194	0.160	ng	100
26) Anthracene	17.359	178	8688	0.196	ng	100
28) Fluoranthene	19.290	202	5581	0.099	ng	99
30) Pyrene	19.652	202	22911	0.438	ng	100
32) Benzo(a)anthracene	21.393	228	12407	0.268	ng	99
33) Chrysene	21.447	228	23008	0.459	ng	100
36) Indeno(1,2,3-cd)pyrene	26.124	276	8944	0.162	ng	# 91
37) Benzo(b)fluoranthene	23.037	252	11104	0.213	ng	# 92
38) Benzo(k)fluoranthene	23.081	252	10856	0.207	ng	# 93
39) Benzo(a)pyrene	23.639	252	6821	0.166	ng	# 83
40) Dibenzo(a,h)anthracene	26.139	278	15355	0.357	ng	98
41) Benzo(g,h,i)perylene	26.849	276	15790	0.349	ng	99

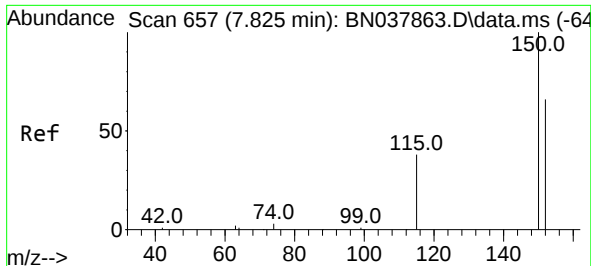
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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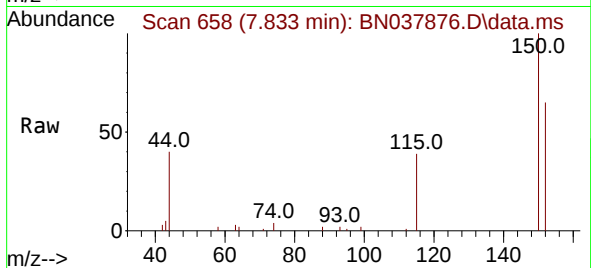
Quant Time: Sep 24 15:47:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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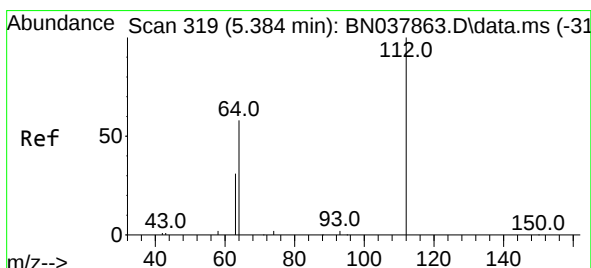
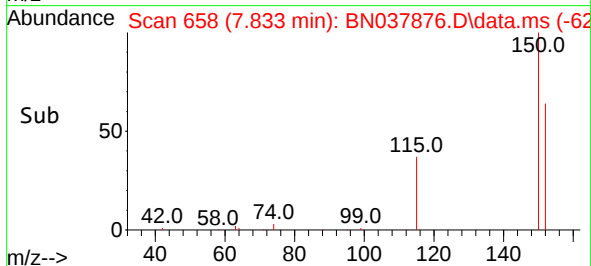
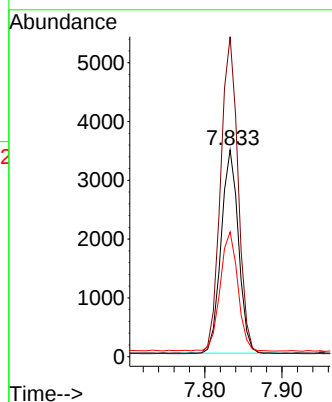


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. 0.008 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

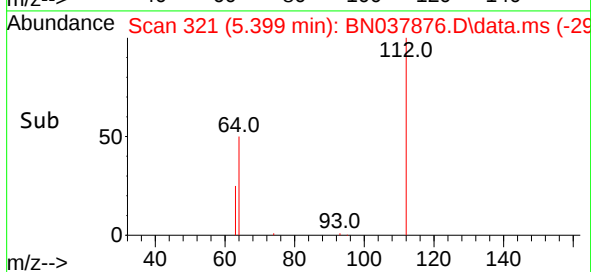
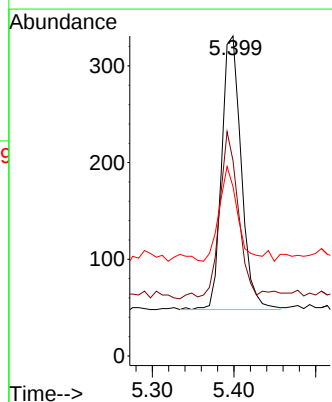
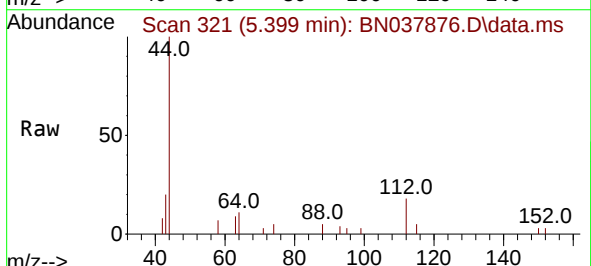


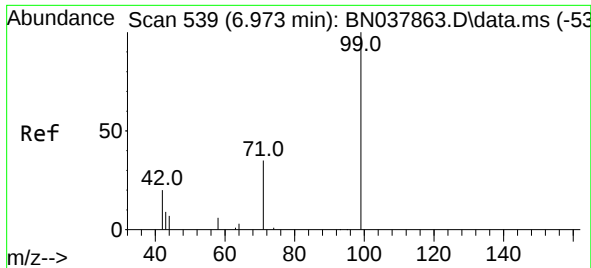
Tgt Ion:152 Resp: 5423
Ion Ratio Lower Upper
152 100
150 154.7 121.0 181.4
115 60.3 47.4 71.0



#4
2-Fluorophenol
Concen: 0.038 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.014 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

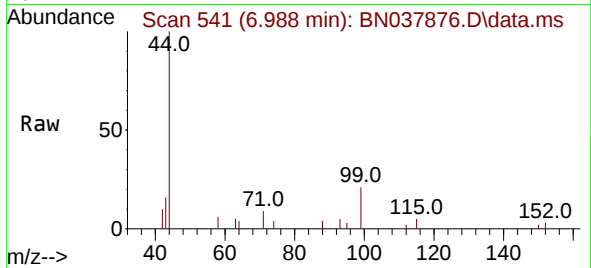
Tgt Ion:112 Resp: 470
Ion Ratio Lower Upper
112 100
64 57.2 44.6 66.8
63 32.3 24.9 37.3



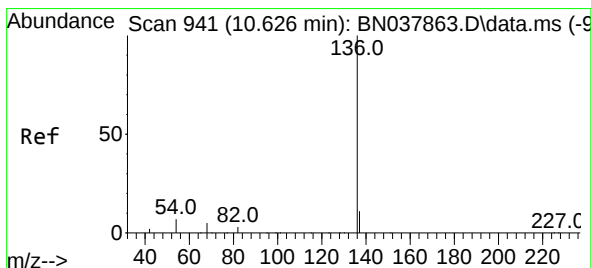
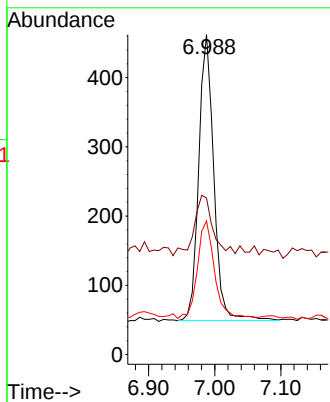
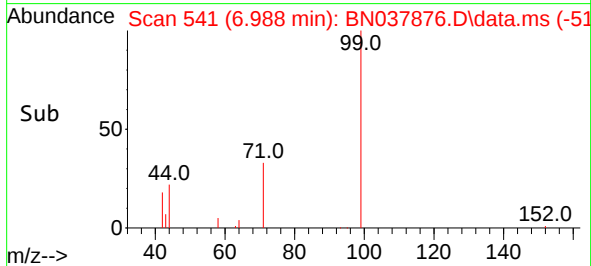


#5
Phenol-d6
Concen: 0.040 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.014 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

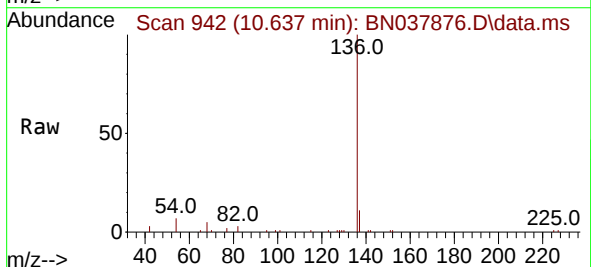
Instrument :
BNA_N
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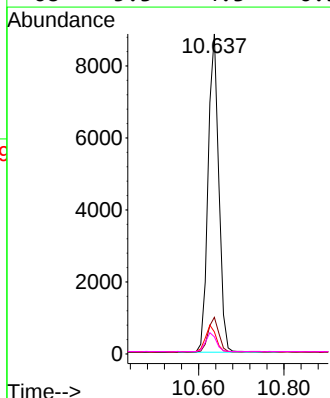
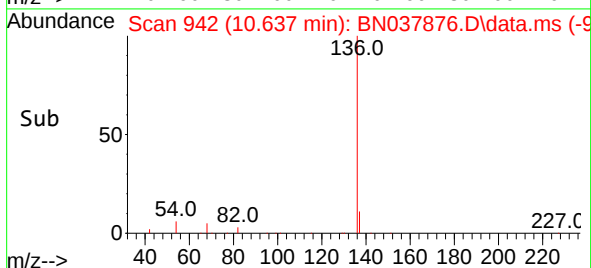
Tgt Ion: 99 Resp: 656
Ion Ratio Lower Upper
99 100
42 26.2 17.2 25.8#
71 39.3 27.3 40.9

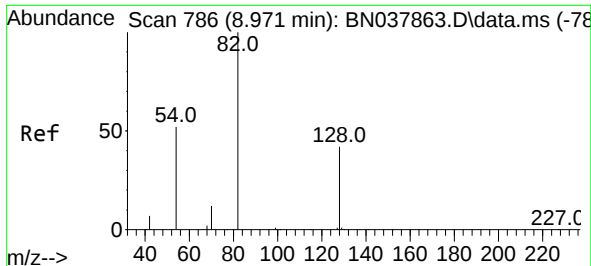


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05



Tgt Ion: 136 Resp: 15340
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.4
54 6.9 5.8 8.8
68 5.3 4.3 6.5

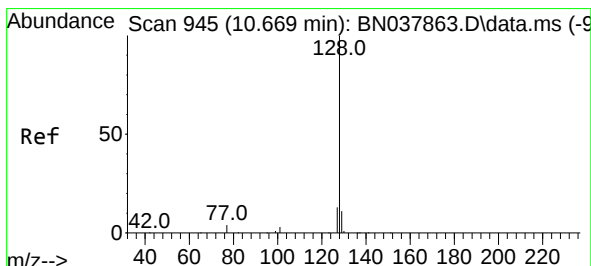
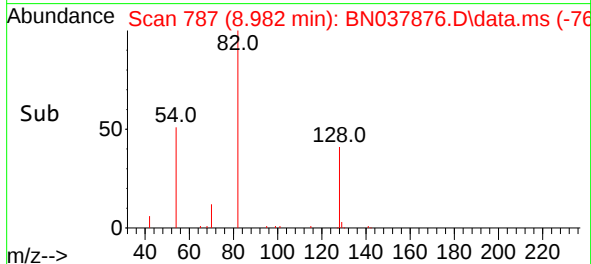
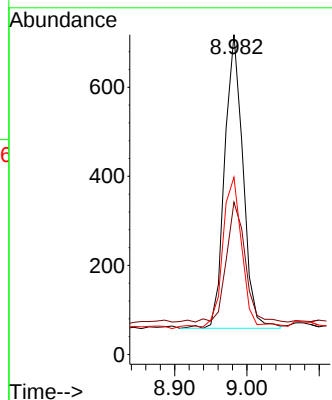
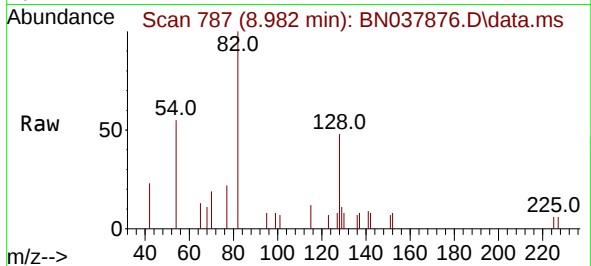




#8
Nitrobenzene-d5
Concen: 0.099 ng
RT: 8.982 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

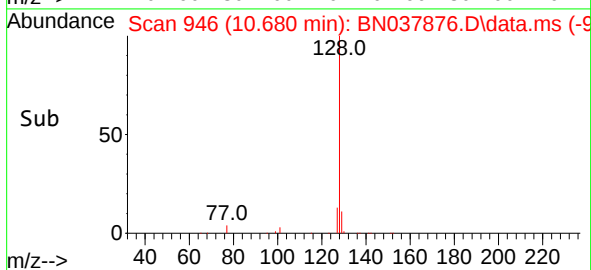
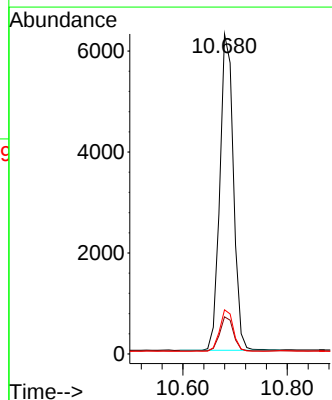
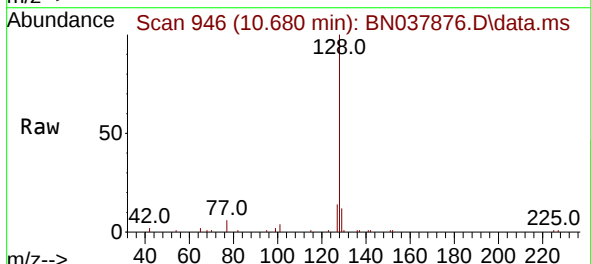
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

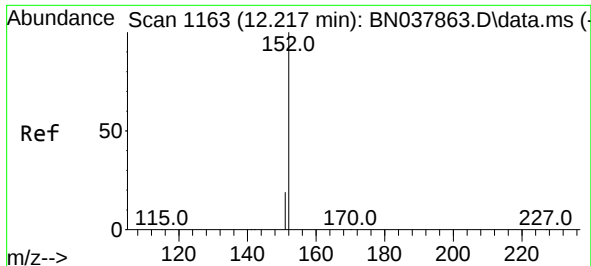
Tgt Ion: 82 Resp: 1161
Ion Ratio Lower Upper
82 100
128 47.6 34.8 52.2
54 55.4 42.2 63.2



#9
Naphthalene
Concen: 0.268 ng
RT: 10.680 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion: 128 Resp: 11342
Ion Ratio Lower Upper
128 100
129 11.6 9.2 13.8
127 13.8 11.0 16.6

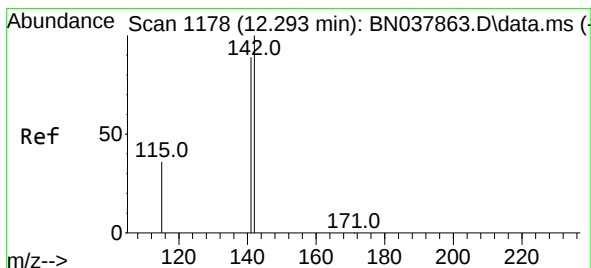
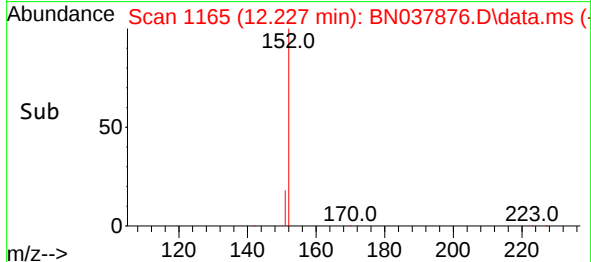
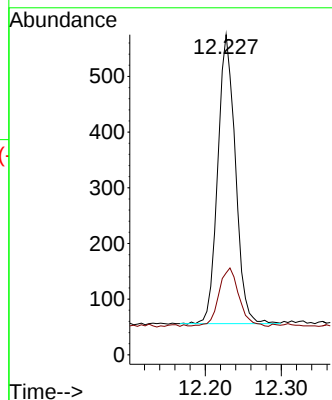
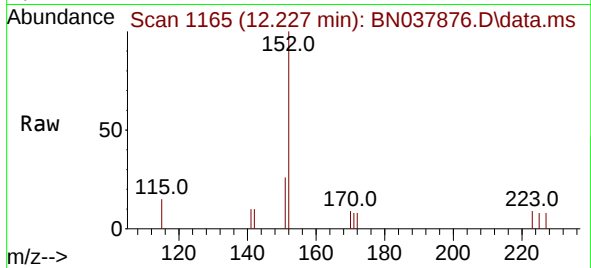




#11
2-Methylnaphthalene-d10
Concen: 0.039 ng
RT: 12.227 min Scan# 1163
Delta R.T. 0.010 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

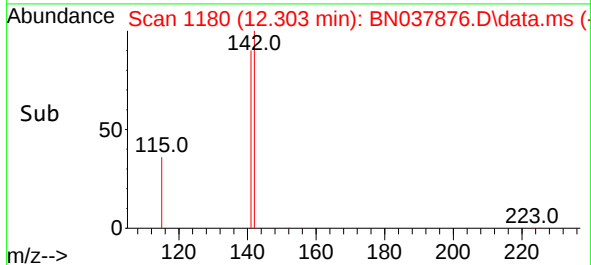
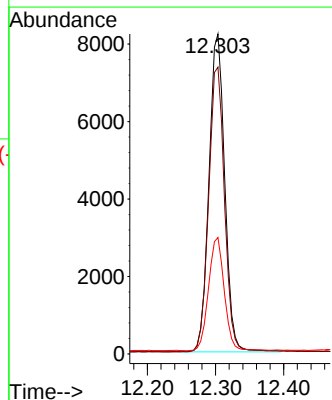
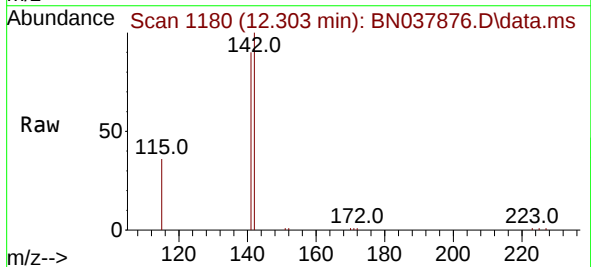
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

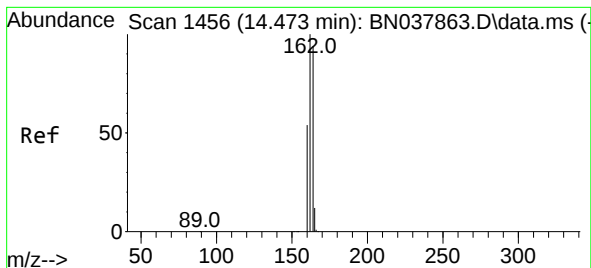
Tgt Ion:152 Resp: 833
Ion Ratio Lower Upper
152 100
151 23.5 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.478 ng
RT: 12.303 min Scan# 1180
Delta R.T. 0.010 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:142 Resp: 13198
Ion Ratio Lower Upper
142 100
141 89.7 71.2 106.8
115 36.4 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.484 min Scan# 1456

Delta R.T. 0.011 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

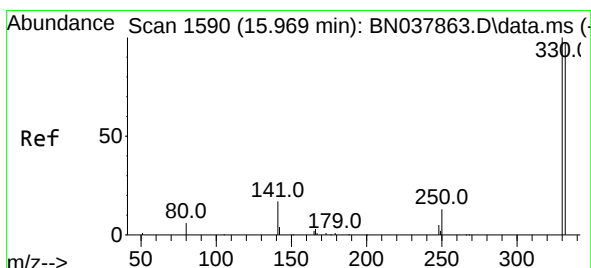
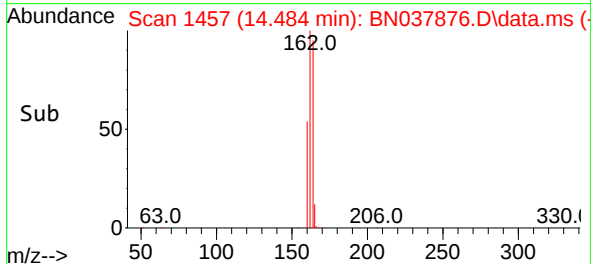
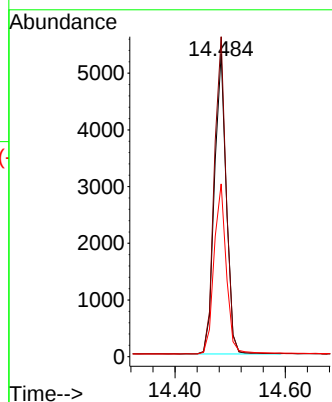
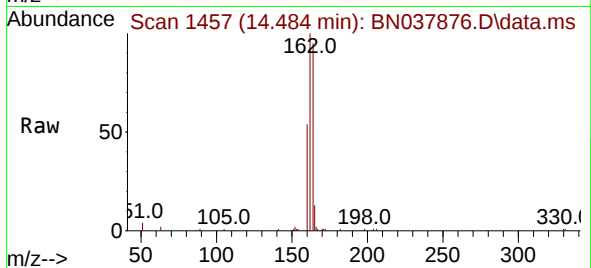
Tgt Ion:164 Resp: 7909

Ion Ratio Lower Upper

164 100

162 105.6 84.8 127.2

160 57.0 46.1 69.1



#14

2,4,6-Tribromophenol

Concen: 0.033 ng

RT: 15.982 min Scan# 1591

Delta R.T. 0.013 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

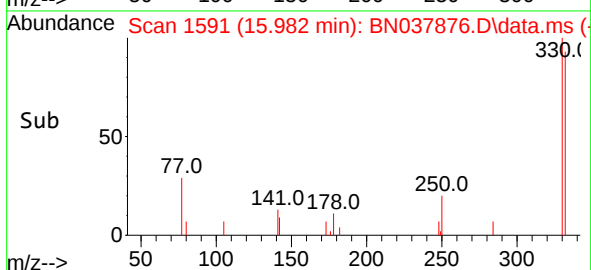
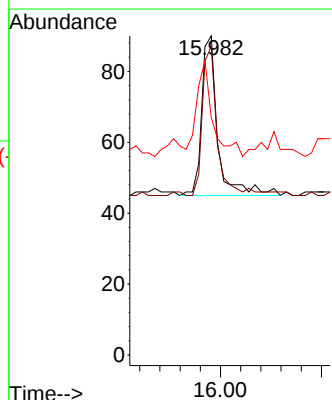
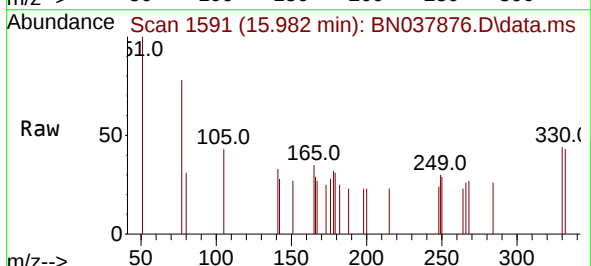
Tgt Ion:330 Resp: 100

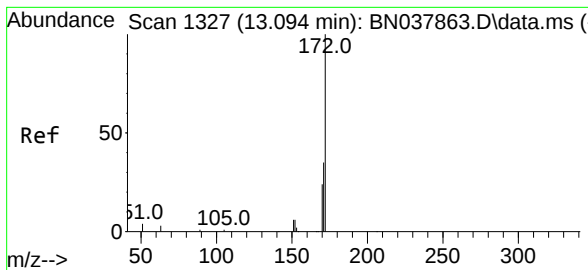
Ion Ratio Lower Upper

330 100

332 88.0 77.2 115.8

141 59.0 37.2 55.8#

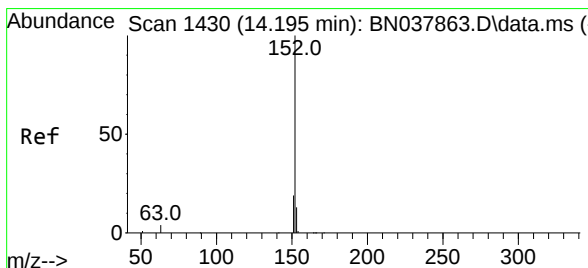
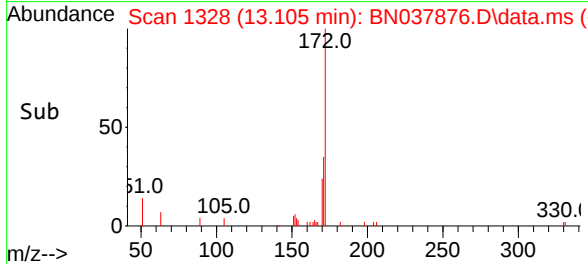
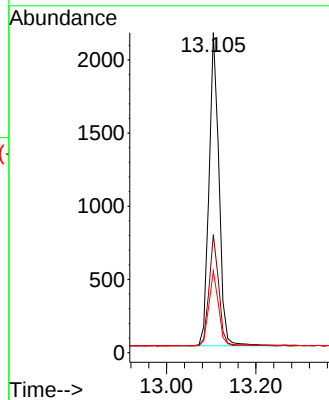
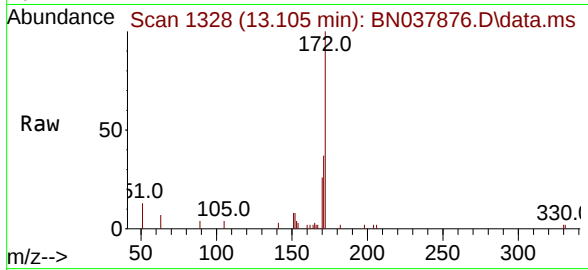




#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.105 min Scan# 1327
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

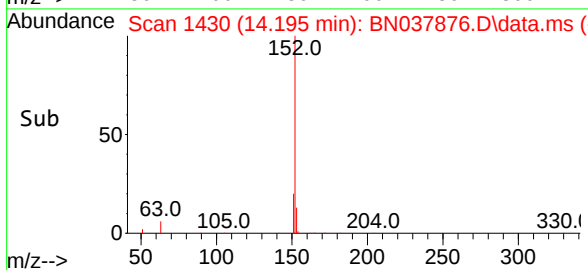
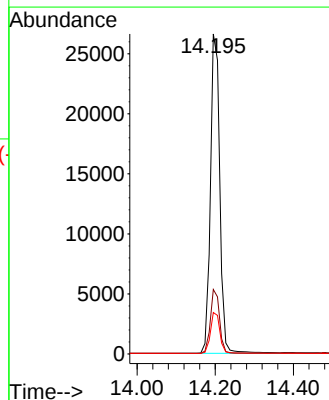
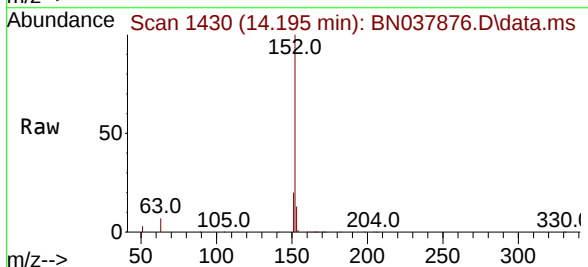
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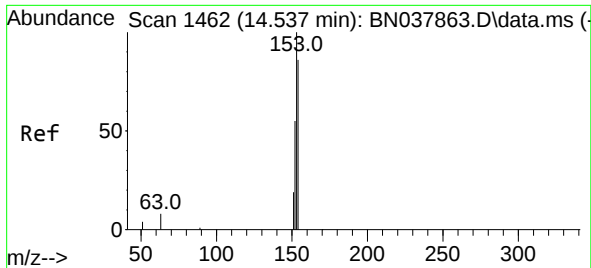
Tgt Ion:	172	Resp:	3279
Ion Ratio	Lower	Upper	
172	100		
171	36.9	28.6	43.0
170	25.5	19.7	29.5



#16
Acenaphthylene
Concen: 1.232 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:	152	Resp:	44253
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	12.9	10.5	15.7

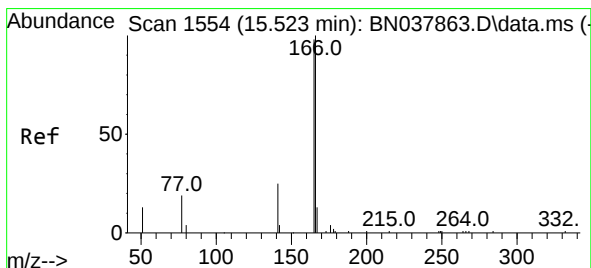
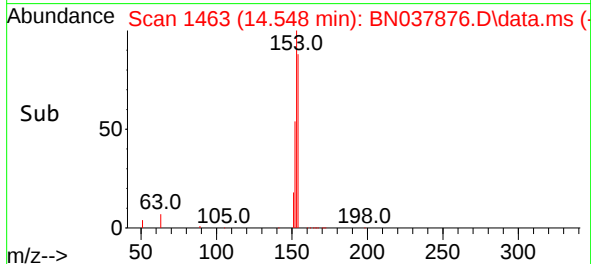
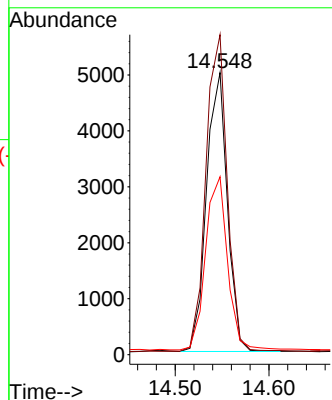
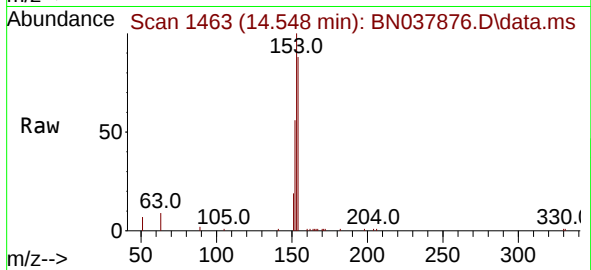




#17
Acenaphthene
Concen: 0.301 ng
RT: 14.548 min Scan# 1463
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

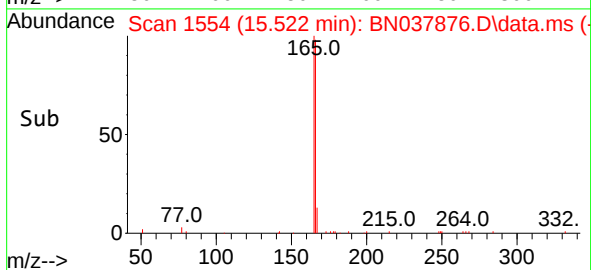
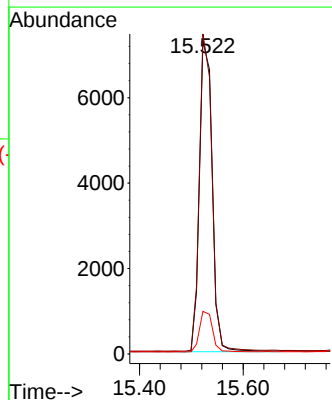
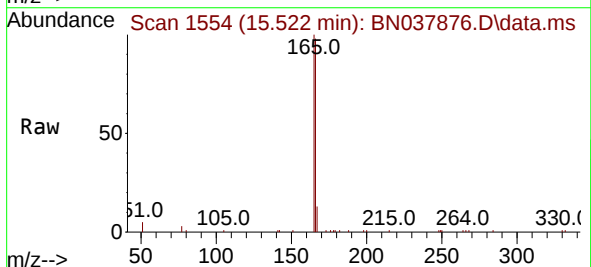
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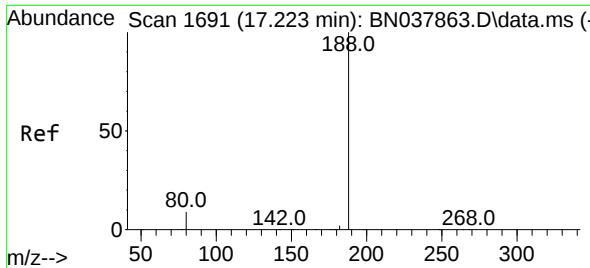
Tgt Ion:154 Resp: 7695
Ion Ratio Lower Upper
154 100
153 115.7 90.5 135.7
152 66.4 51.8 77.8



#18
Fluorene
Concen: 0.394 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:166 Resp: 12205
Ion Ratio Lower Upper
166 100
165 97.9 79.0 118.4
167 13.0 10.6 16.0

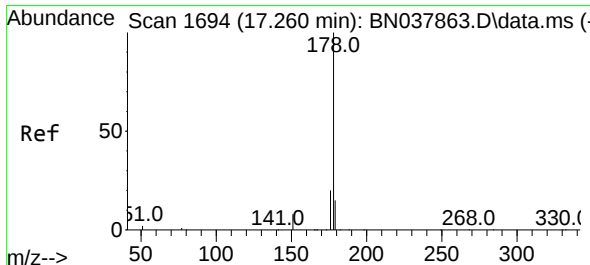
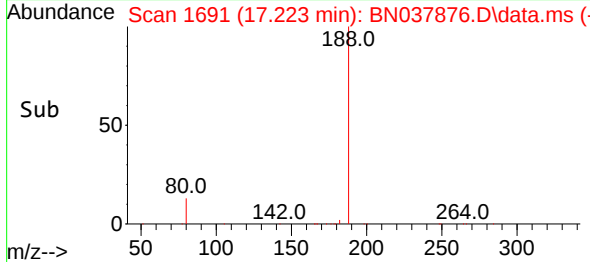
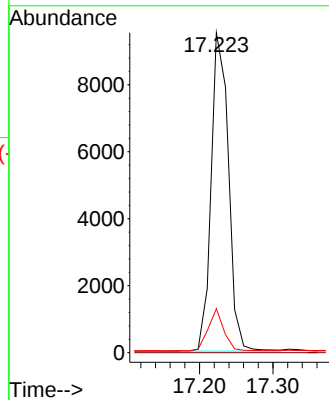
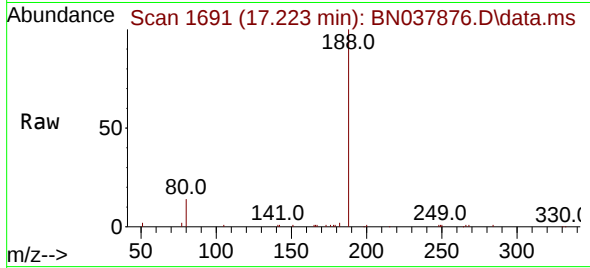




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

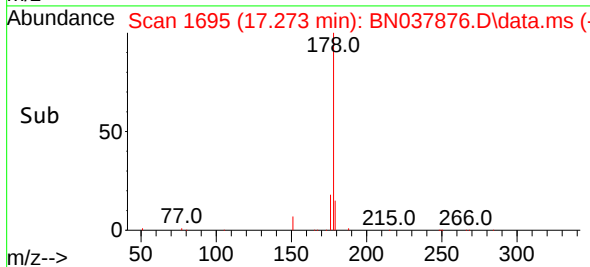
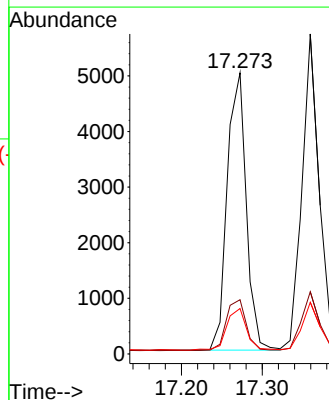
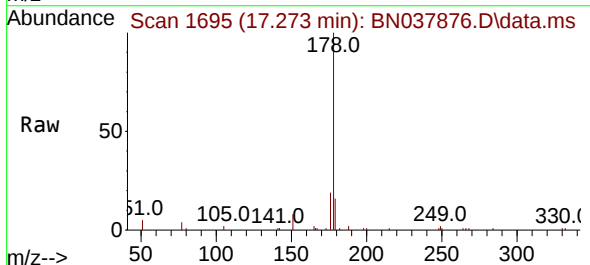
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

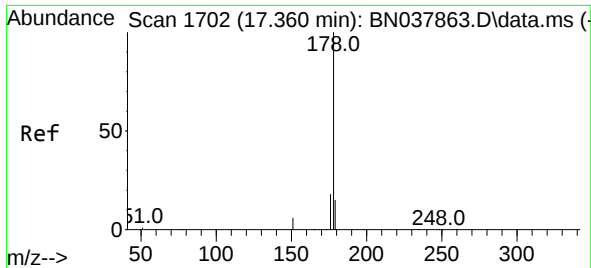
Tgt Ion:188 Resp: 15562
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.8 7.6 11.4#



#25
Phenanthrene
Concen: 0.160 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.012 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:178 Resp: 8194
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.3 18.5

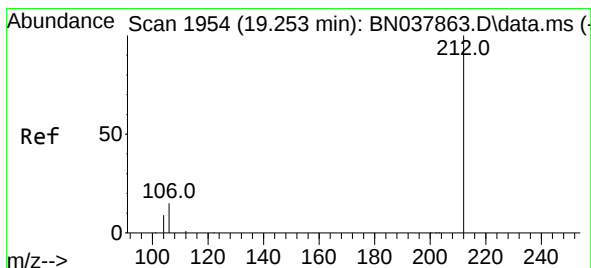
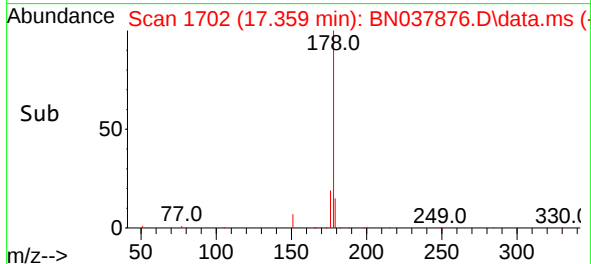
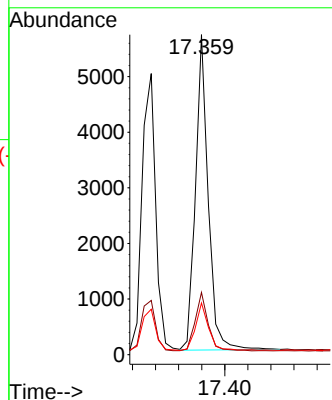
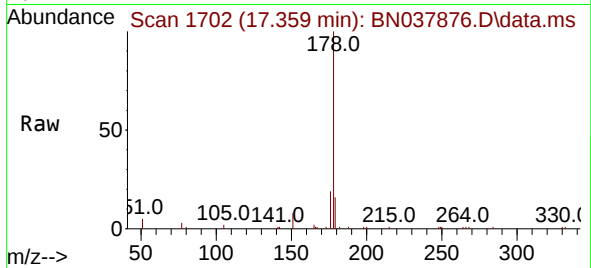




#26
 Anthracene
 Concen: 0.196 ng
 RT: 17.359 min Scan# 1702
 Delta R.T. -0.000 min
 Lab File: BN037876.D
 Acq: 24 Sep 2025 15:05

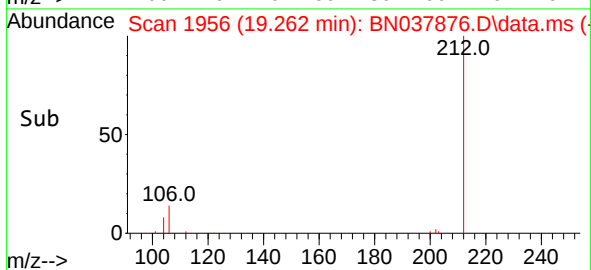
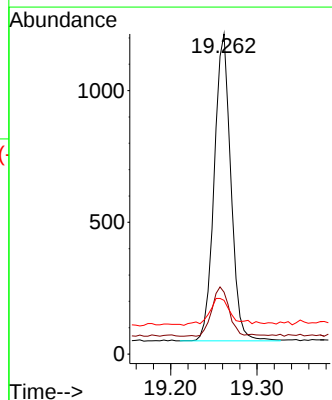
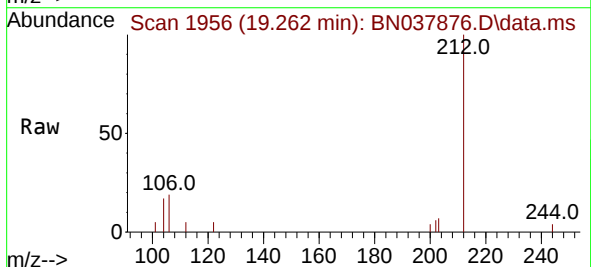
Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WPDL

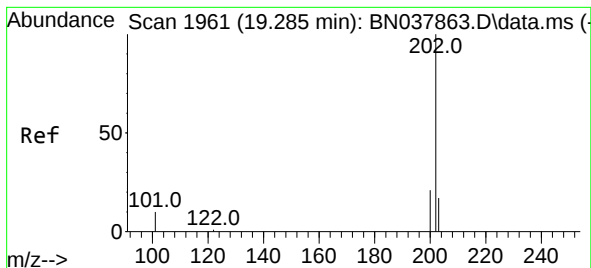
Tgt Ion:178	Resp:	8688
Ion Ratio	Lower	Upper
178	100	
176	18.8	15.0 22.4
179	15.2	12.3 18.5



#27
 Fluoranthene-d10
 Concen: 0.040 ng
 RT: 19.262 min Scan# 1956
 Delta R.T. 0.009 min
 Lab File: BN037876.D
 Acq: 24 Sep 2025 15:05

Tgt Ion:212	Resp:	1557
Ion Ratio	Lower	Upper
212	100	
106	16.6	12.6 19.0
104	12.0	7.4 11.0





#28

Fluoranthene

Concen: 0.099 ng

RT: 19.290 min Scan# 1961

Delta R.T. 0.005 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

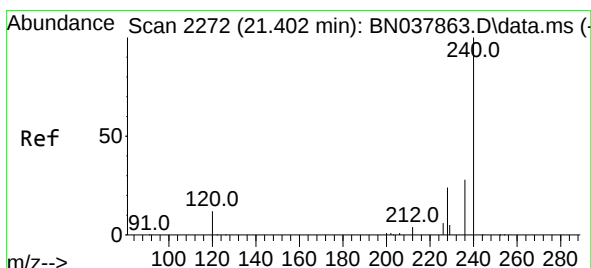
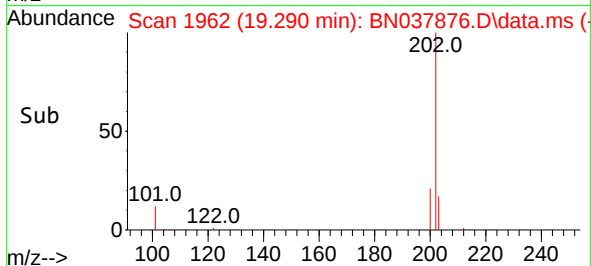
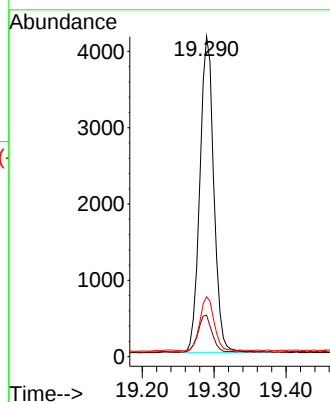
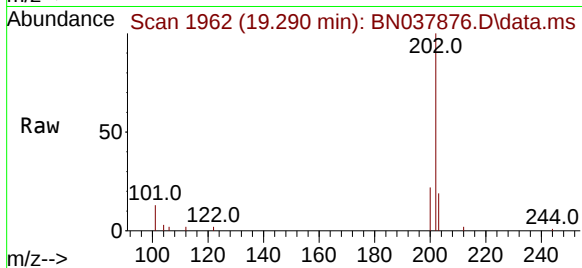
Tgt Ion:202 Resp: 5581

Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.5 13.6 20.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. 0.009 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

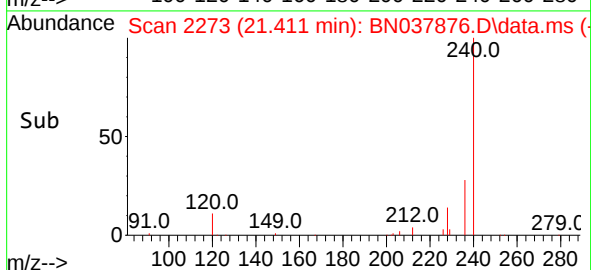
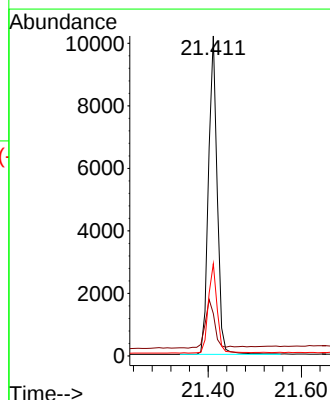
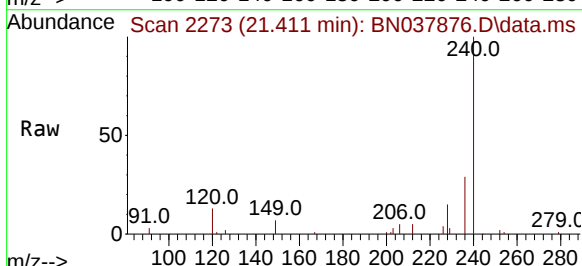
Tgt Ion:240 Resp: 13258

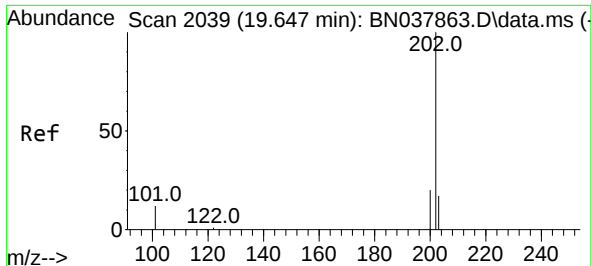
Ion Ratio Lower Upper

240 100

120 13.2 11.4 17.2

236 28.8 23.0 34.6

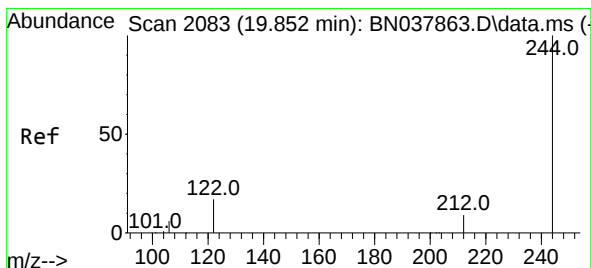
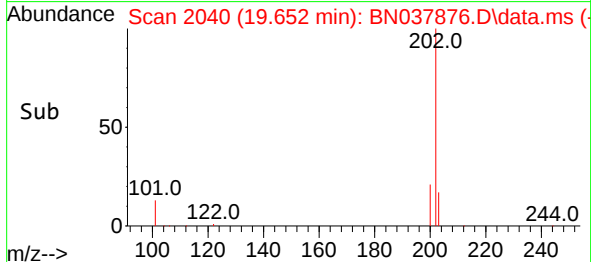
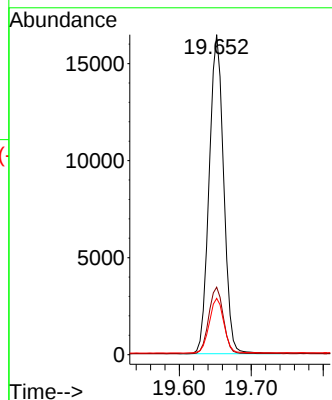
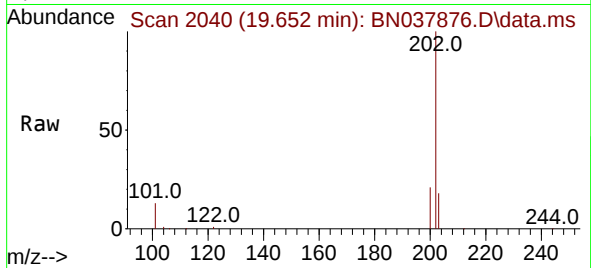




#30
Pyrene
Concen: 0.438 ng
RT: 19.652 min Scan# 2039
Delta R.T. 0.005 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

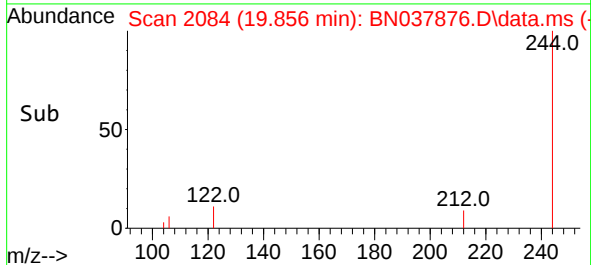
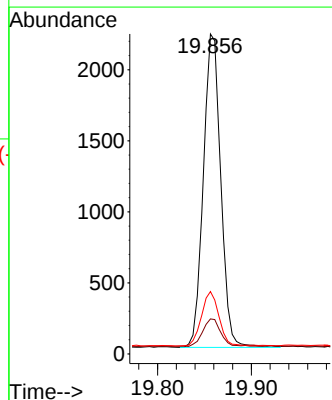
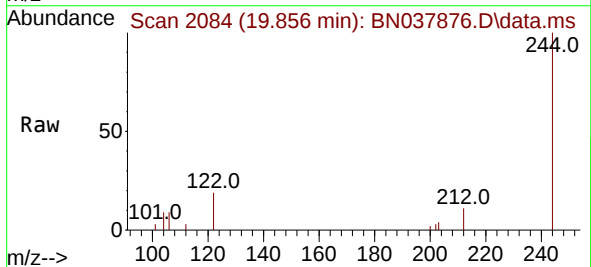
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

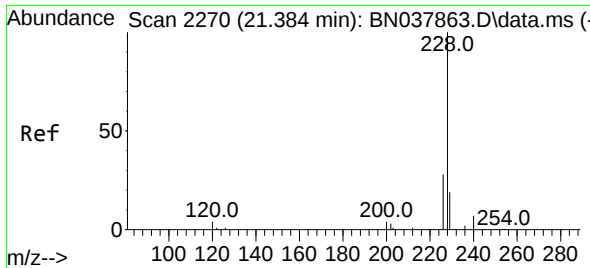
Tgt Ion:202 Resp: 22911
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.5 14.2 21.4



#31
Terphenyl-d14
Concen: 0.108 ng
RT: 19.856 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:244 Resp: 2854
Ion Ratio Lower Upper
244 100
212 10.9 7.6 11.4
122 19.5 13.9 20.9

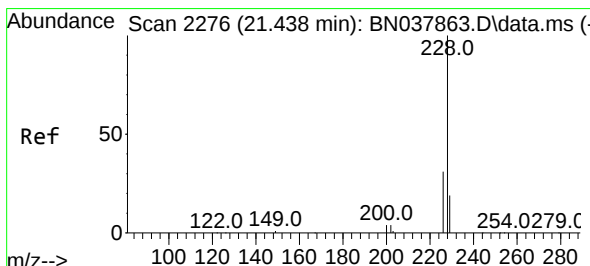
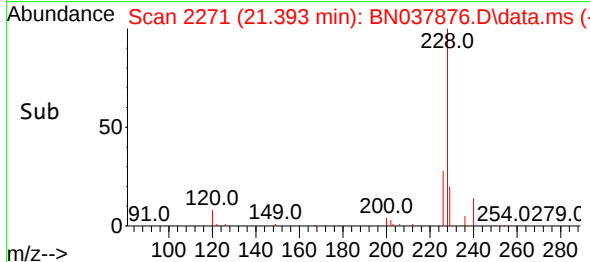
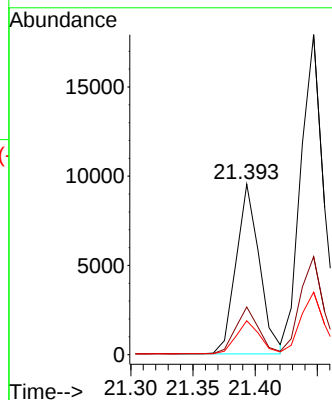
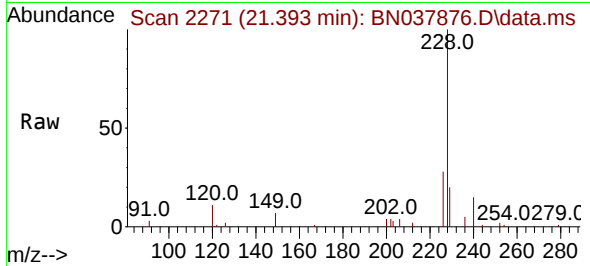




#32
Benzo(a)anthracene
Concen: 0.268 ng
RT: 21.393 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

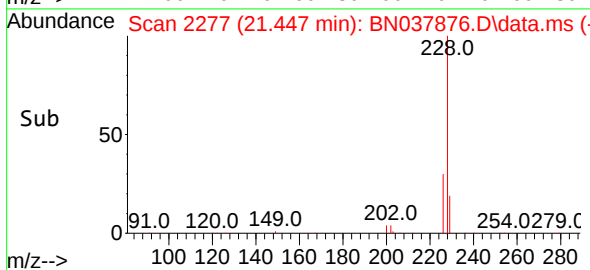
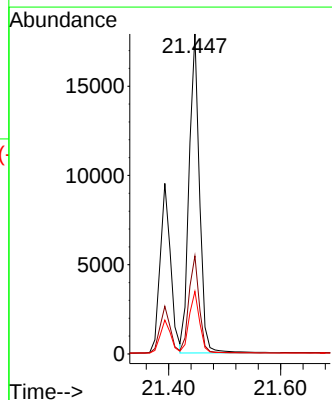
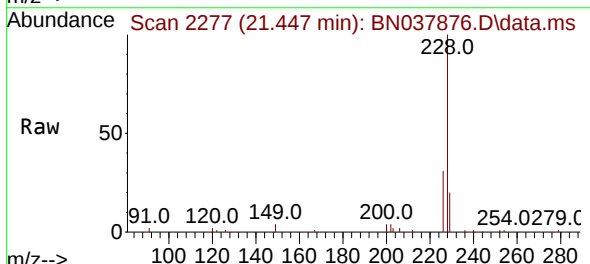
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

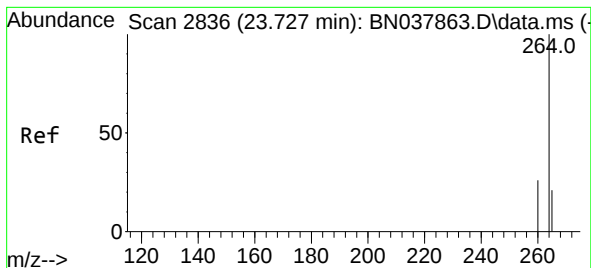
Tgt Ion:228 Resp: 12407
Ion Ratio Lower Upper
228 100
226 27.9 22.6 33.8
229 19.9 15.6 23.4



#33
Chrysene
Concen: 0.459 ng
RT: 21.447 min Scan# 2277
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:228 Resp: 23008
Ion Ratio Lower Upper
228 100
226 30.6 24.6 37.0
229 19.6 15.6 23.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.741 min Scan# 21

Delta R.T. 0.014 min

Lab File: BN037876.D

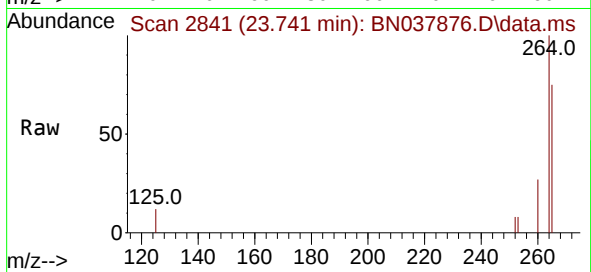
Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL



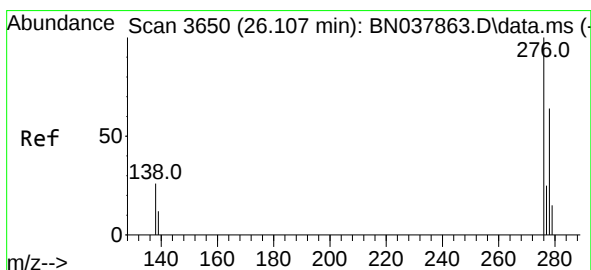
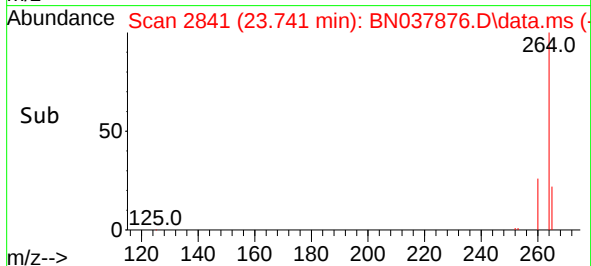
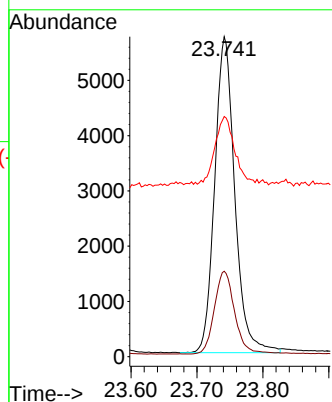
Tgt Ion:264 Resp: 12068

Ion Ratio Lower Upper

264 100

260 26.7 21.5 32.3

265 75.0 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.162 ng

RT: 26.124 min Scan# 3656

Delta R.T. 0.017 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

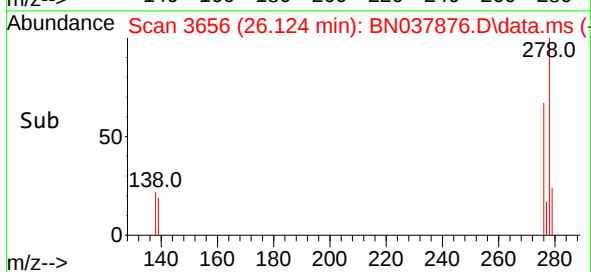
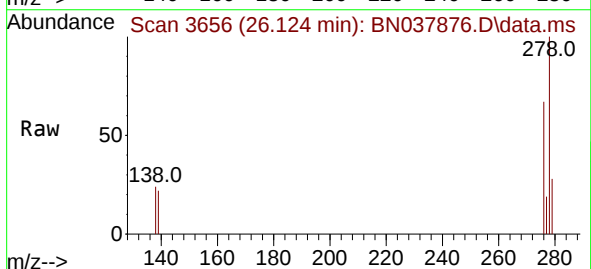
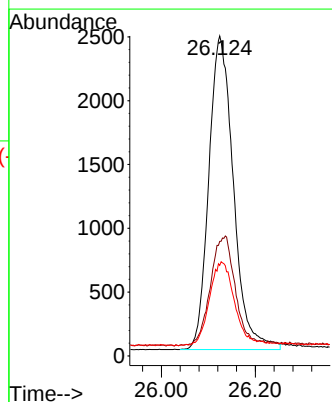
Tgt Ion:276 Resp: 8944

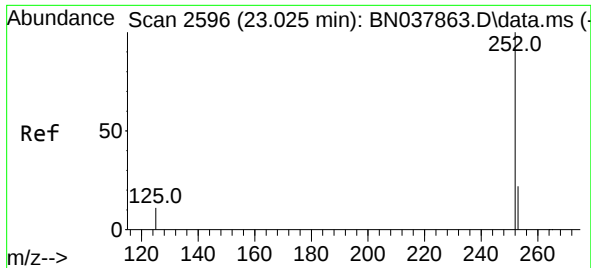
Ion Ratio Lower Upper

276 100

138 34.4 21.4 32.0#

277 26.4 20.3 30.5

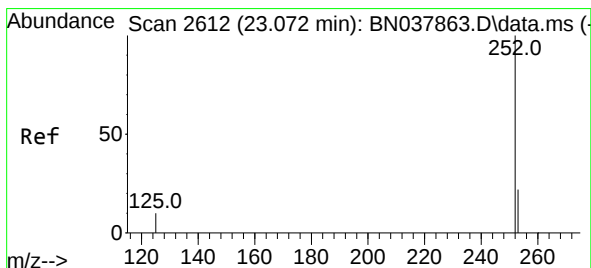
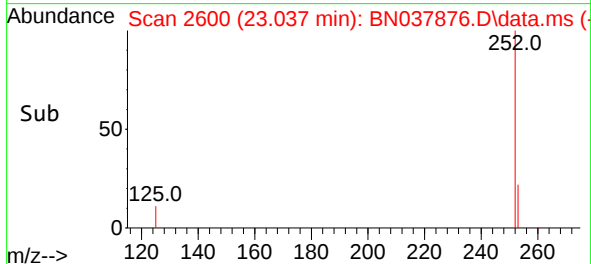
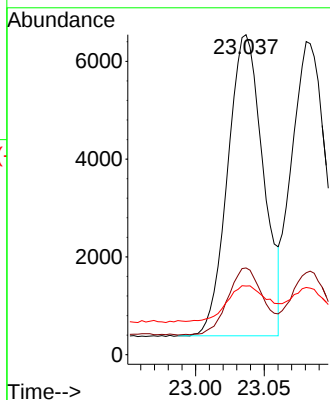
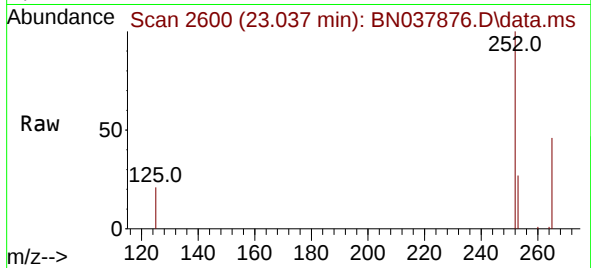




#37
Benzo(b)fluoranthene
Concen: 0.213 ng
RT: 23.037 min Scan# 21104
Delta R.T. 0.012 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

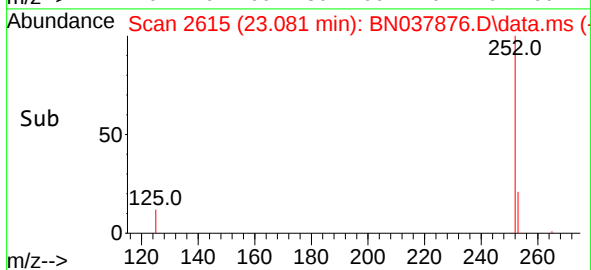
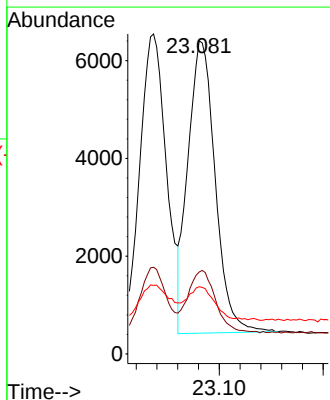
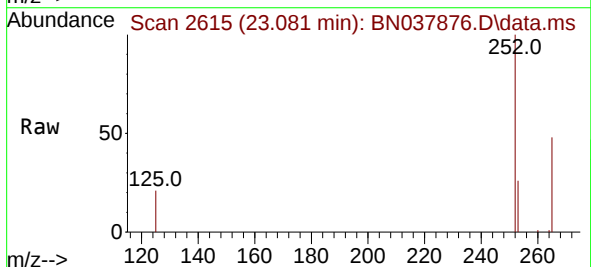
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

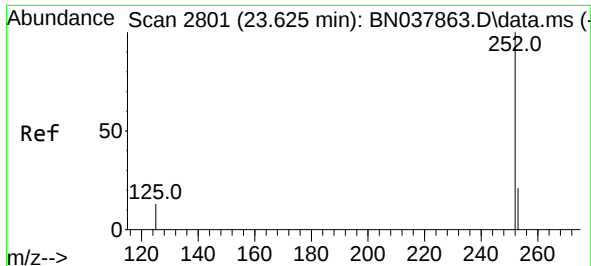
Tgt Ion:252 Resp: 11104
Ion Ratio Lower Upper
252 100
253 27.1 19.4 29.0
125 21.4 13.0 19.4#



#38
Benzo(k)fluoranthene
Concen: 0.207 ng
RT: 23.081 min Scan# 2615
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

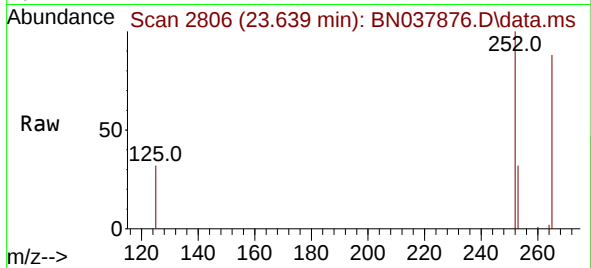
Tgt Ion:252 Resp: 10856
Ion Ratio Lower Upper
252 100
253 26.1 19.5 29.3
125 21.5 13.0 19.4#



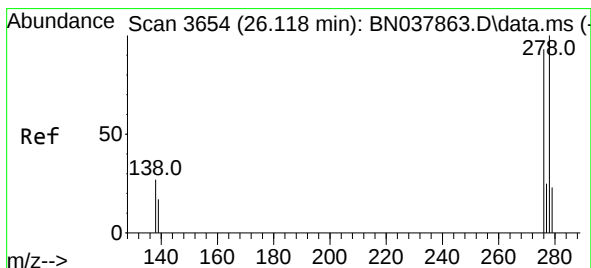
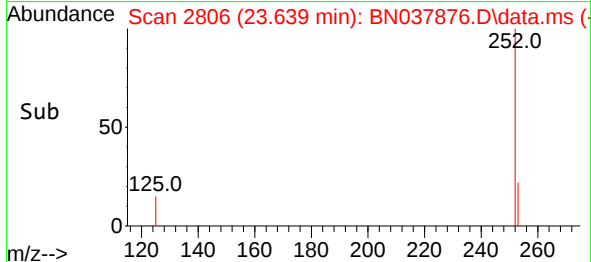
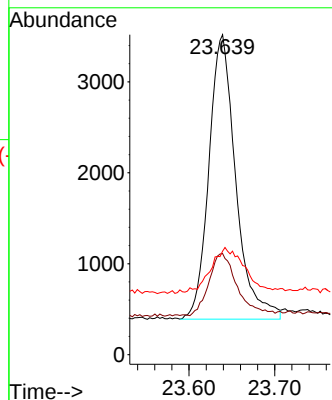


#39
Benzo(a)pyrene
Concen: 0.166 ng
RT: 23.639 min Scan# 21
Delta R.T. 0.015 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

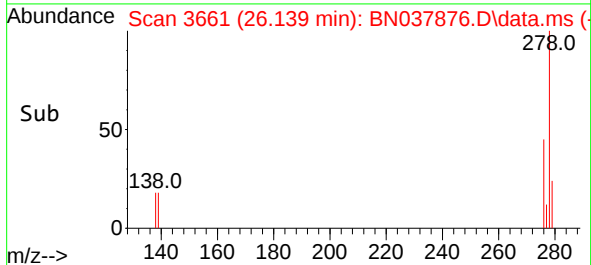
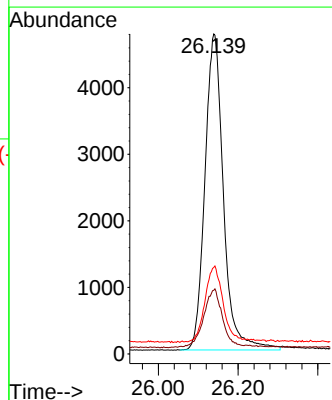
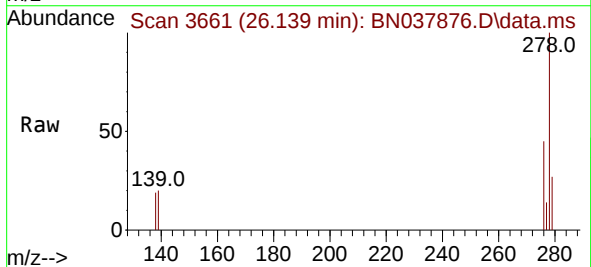


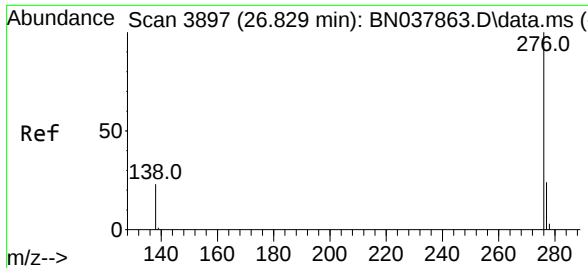
Tgt Ion:252 Resp: 6821
Ion Ratio Lower Upper
252 100
253 31.6 20.6 30.8#
125 32.3 16.7 25.1#



#40
Dibenzo(a,h)anthracene
Concen: 0.357 ng
RT: 26.139 min Scan# 3661
Delta R.T. 0.020 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

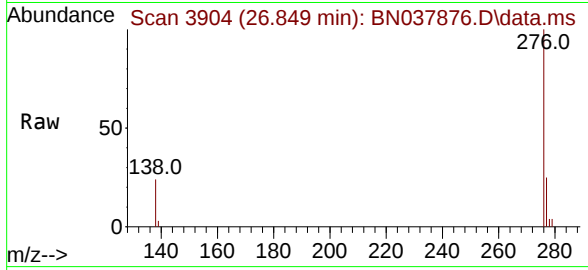
Tgt Ion:278 Resp: 15355
Ion Ratio Lower Upper
278 100
139 19.9 15.4 23.2
279 27.1 20.8 31.2





#41
Benzo(g,h,i)perylene
Concen: 0.349 ng
RT: 26.849 min Scan# 3904
Delta R.T. 0.020 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL



Tgt Ion:	276	Resp:	15790
Ion	Ratio	Lower	Upper
276	100		
277	24.9	20.2	30.4
138	24.2	19.8	29.8

