

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036603.D
 Acq On : 14 Mar 2025 11:21
 Operator : RC/JU
 Sample : Q1502-21
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Quant Time: Mar 14 11:43:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

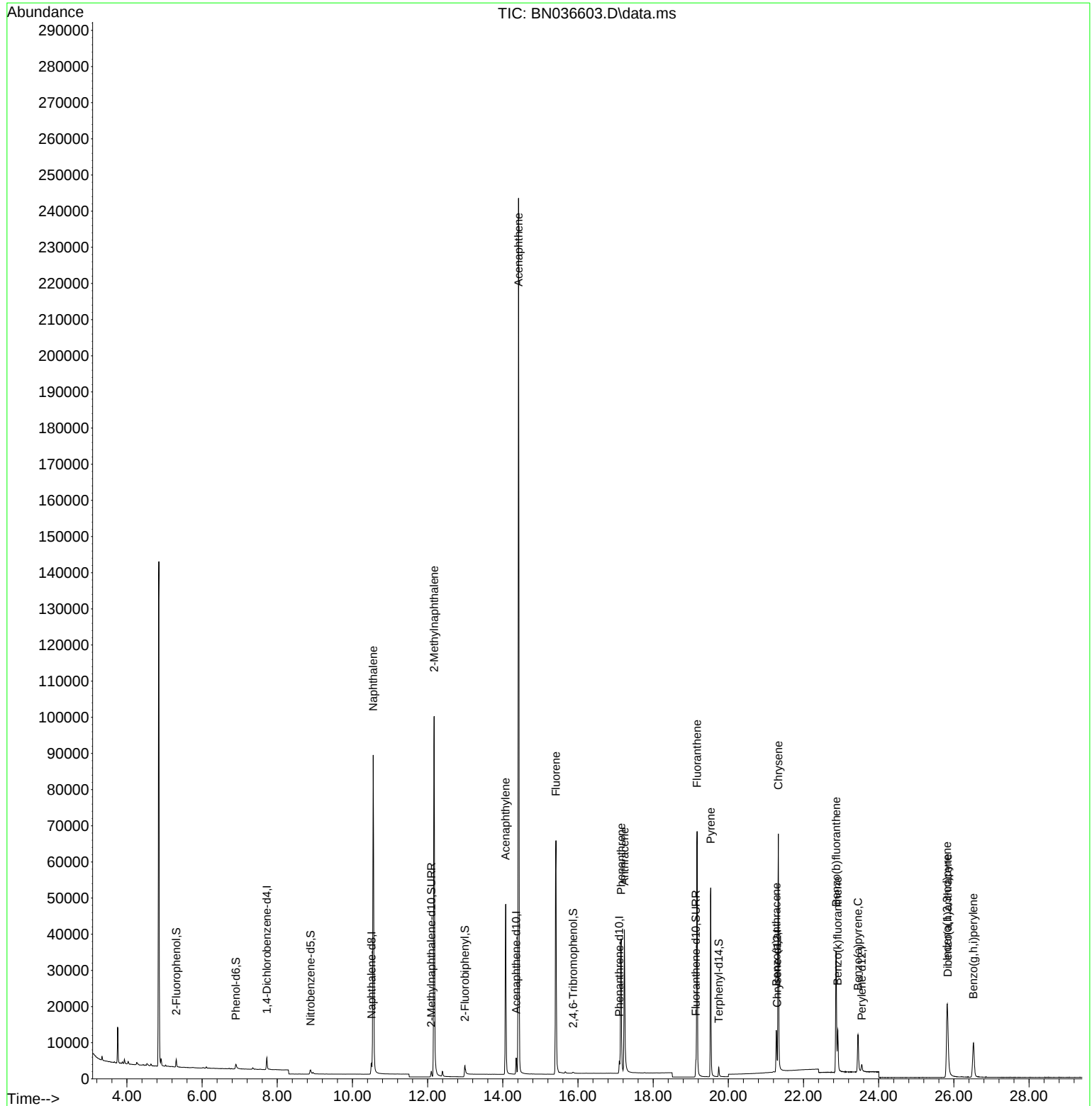
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1837	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4296	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	2463	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4992	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3361	0.400	ng	# 0.00
35) Perylene-d12	23.551	264	2893	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1550	0.362	ng	0.00
5) Phenol-d6	6.901	99	1742	0.329	ng	0.00
8) Nitrobenzene-d5	8.886	82	1545	0.331	ng	0.01
11) 2-Methylnaphthalene-d10	12.096	152	2321	0.363	ng	-0.02
14) 2,4,6-Tribromophenol	15.870	330	256	0.229	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5290	0.369	ng	0.00
27) Fluoranthene-d10	19.136	212	5143	0.402	ng	0.00
31) Terphenyl-d14	19.745	244	3276	0.407	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.552	128	116095	9.187	ng	97
12) 2-Methylnaphthalene	12.172	142	73370	9.125	ng	99
16) Acenaphthylene	14.078	152	50637	4.357	ng	100
17) Acenaphthene	14.420	154	108429	14.251	ng	98
18) Fluorene	15.414	166	47677	4.632	ng	100
25) Phenanthrene	17.149	178	45880	3.064	ng	100
26) Anthracene	17.235	178	47922	3.546	ng	99
28) Fluoranthene	19.169	202	64871	3.856	ng	99
30) Pyrene	19.531	202	49034	2.984	ng	100
32) Benzo(a)anthracene	21.277	228	9966	0.853	ng	99
33) Chrysene	21.331	228	58070	4.547	ng	99
36) Indeno(1,2,3-cd)pyrene	25.820	276	38177	3.656	ng	94
37) Benzo(b)fluoranthene	22.867	252	42724	4.058	ng	# 84
38) Benzo(k)fluoranthene	22.911	252	16012	1.450	ng	# 86
39) Benzo(a)pyrene	23.449	252	16926	1.909	ng	# 79
40) Dibenzo(a,h)anthracene	25.841	278	11055	1.360	ng	# 85
41) Benzo(g,h,i)perylene	26.522	276	19668	2.115	ng	93

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

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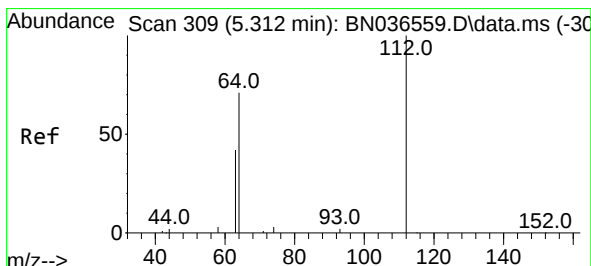
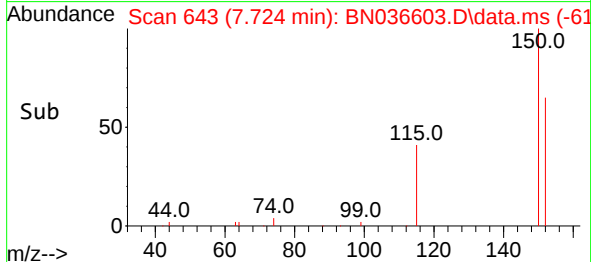
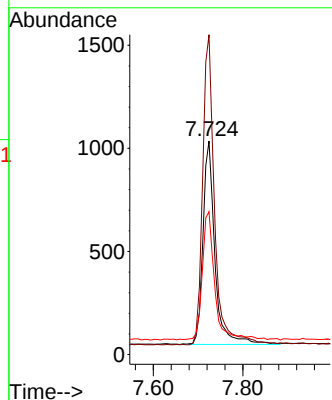
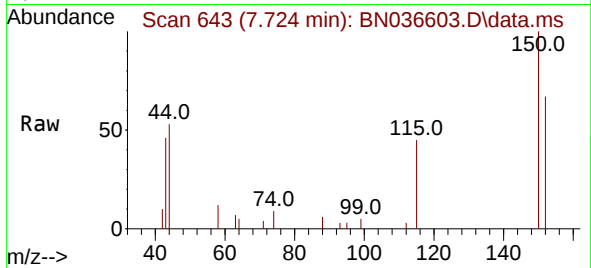




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 643
 Delta R.T. 0.000 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

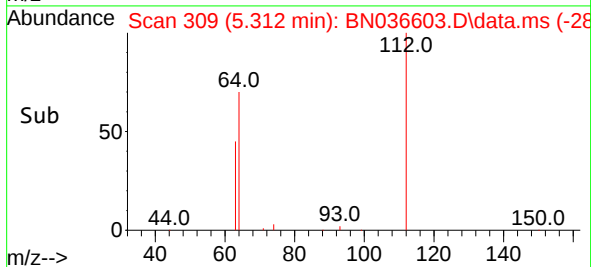
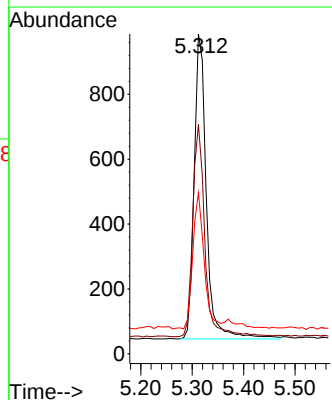
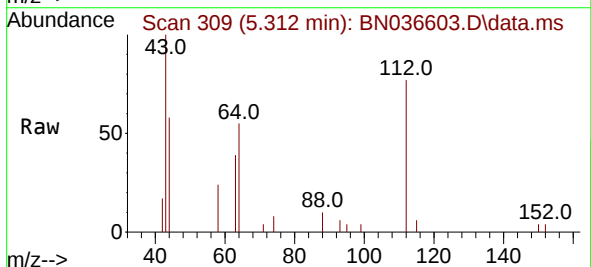
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Tgt Ion:152 Resp: 1837
 Ion Ratio Lower Upper
 152 100
 150 149.9 123.7 185.5
 115 67.0 54.3 81.5



#4
 2-Fluorophenol
 Concen: 0.362 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

Tgt Ion:112 Resp: 1550
 Ion Ratio Lower Upper
 112 100
 64 69.4 53.1 79.7
 63 40.7 31.8 47.8

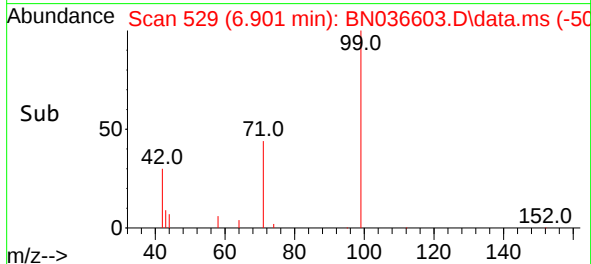
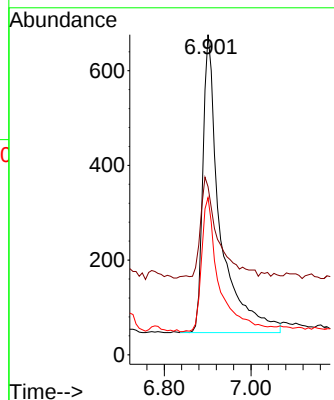
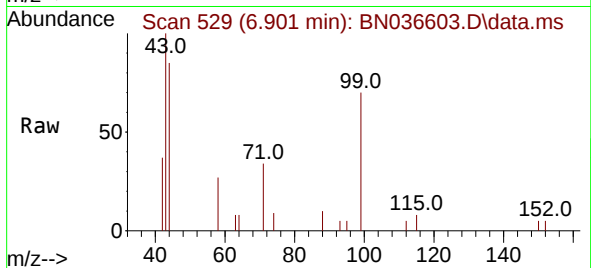




#5
Phenol-d6
Concen: 0.329 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

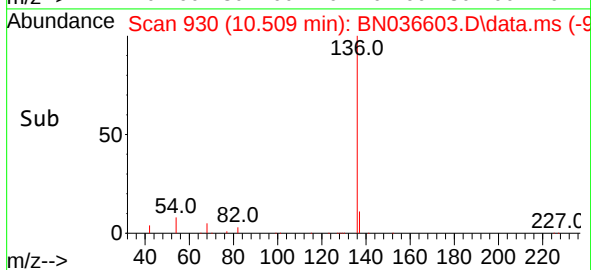
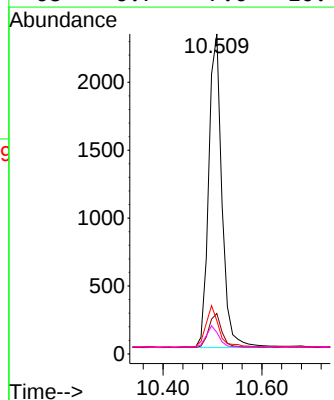
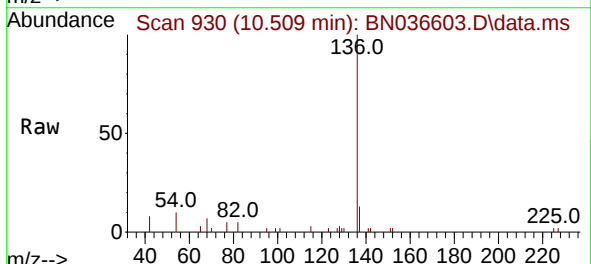
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion: 99 Resp: 1742
Ion Ratio Lower Upper
99 100
42 34.6 26.5 39.7
71 45.8 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion: 136 Resp: 4296
Ion Ratio Lower Upper
136 100
137 12.6 10.3 15.5
54 10.4 11.5 17.3#
68 6.7 7.0 10.4#

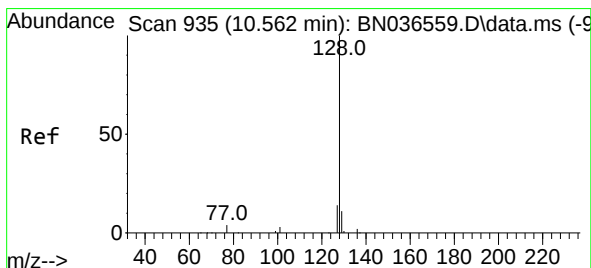
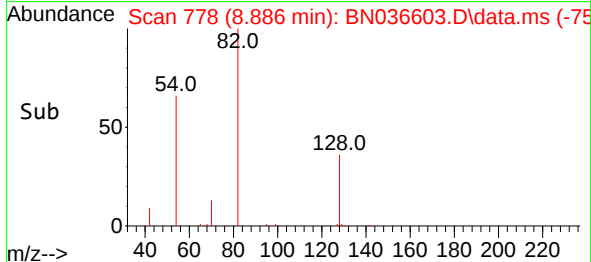
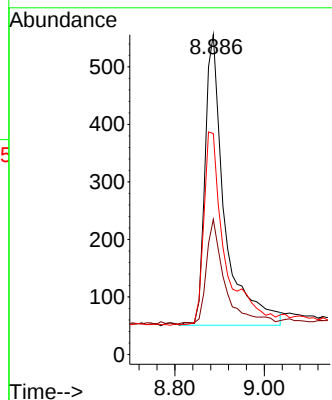
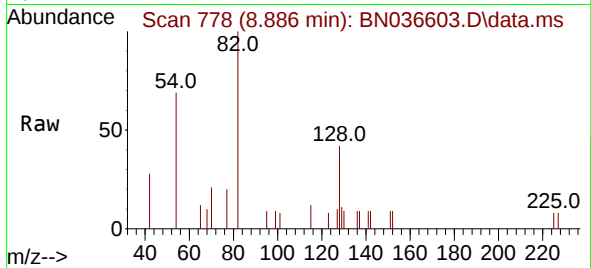




#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.886 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

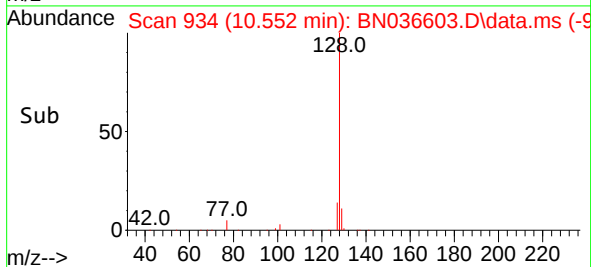
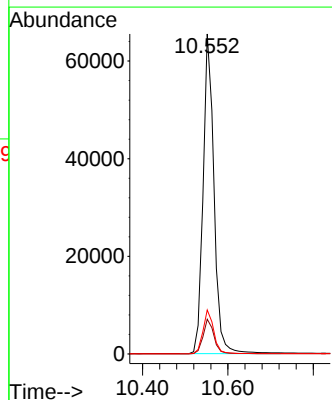
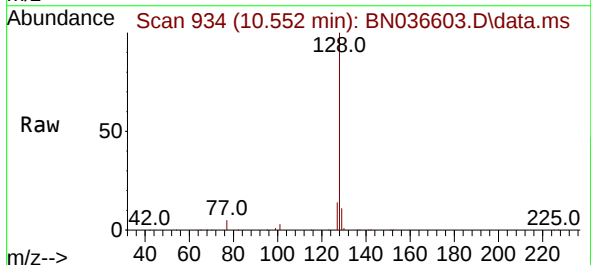
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion: 82 Resp: 1545
Ion Ratio Lower Upper
82 100
128 42.3 30.6 45.8
54 69.1 52.2 78.4



#9
Naphthalene
Concen: 9.187 ng
RT: 10.552 min Scan# 934
Delta R.T. -0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion: 128 Resp: 116095
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.8 11.8 17.8

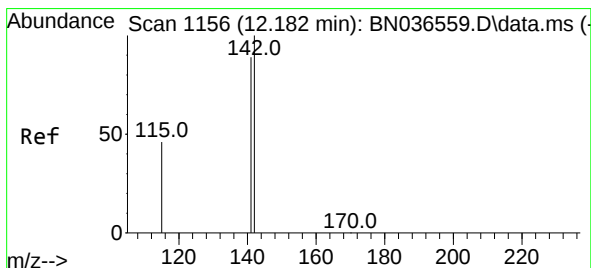
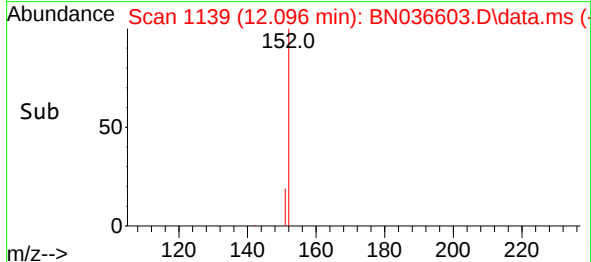
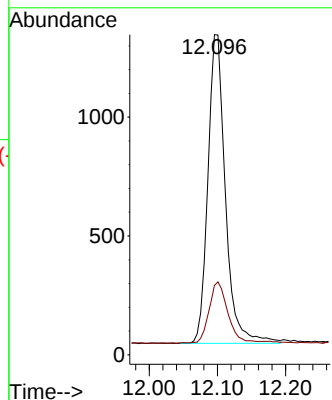
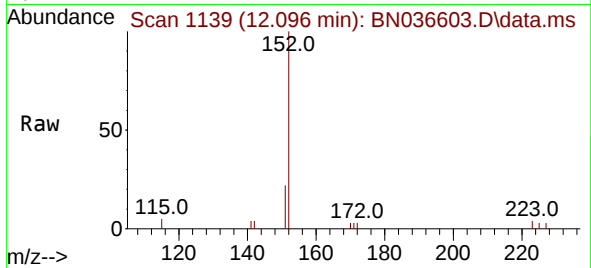




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

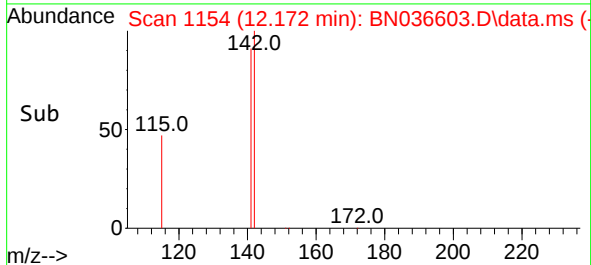
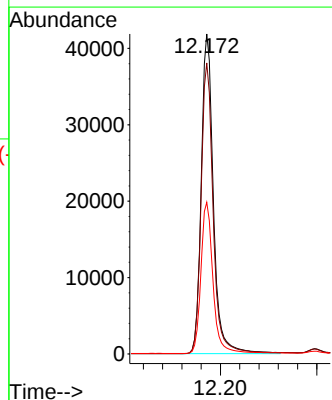
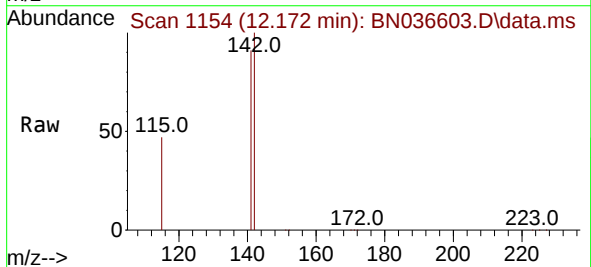
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

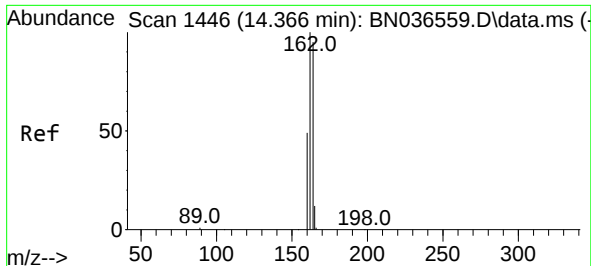
Tgt Ion:152 Resp: 2321
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 9.125 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:142 Resp: 73370
Ion Ratio Lower Upper
142 100
141 90.9 71.7 107.5
115 47.4 38.3 57.5

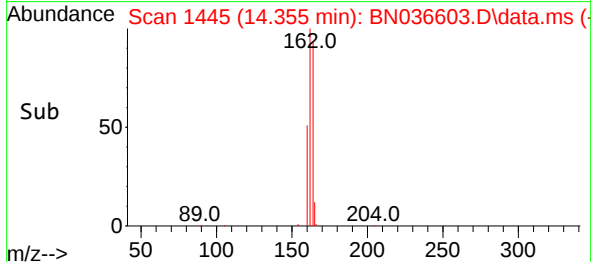
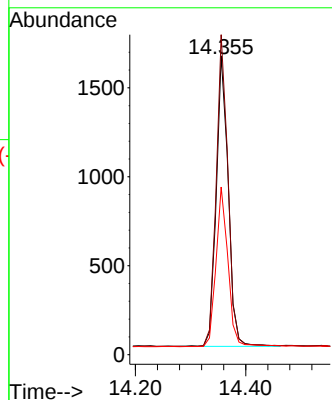
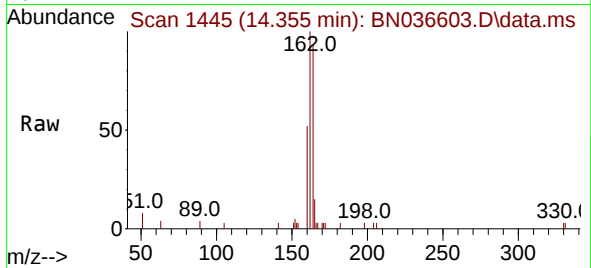




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

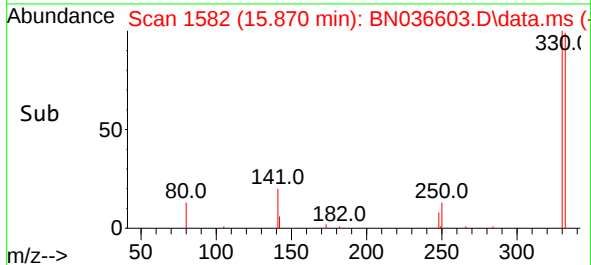
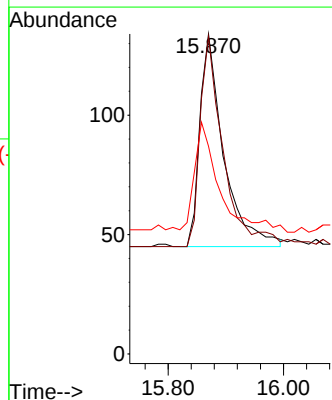
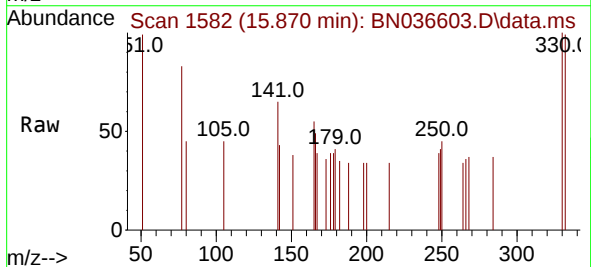
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

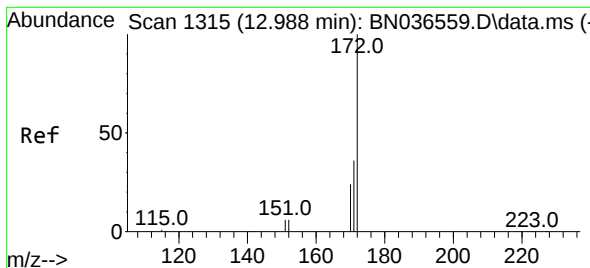
Tgt Ion:164 Resp: 2463
Ion Ratio Lower Upper
164 100
162 107.1 84.2 126.2
160 56.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.229 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.013 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:330 Resp: 256
Ion Ratio Lower Upper
330 100
332 95.7 75.2 112.8
141 49.2 43.4 65.2

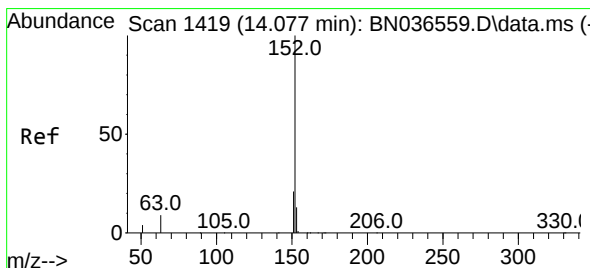
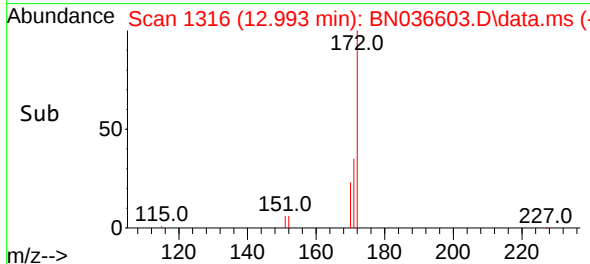
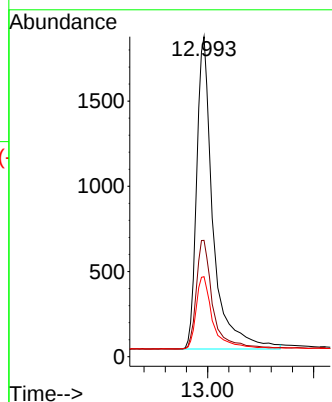
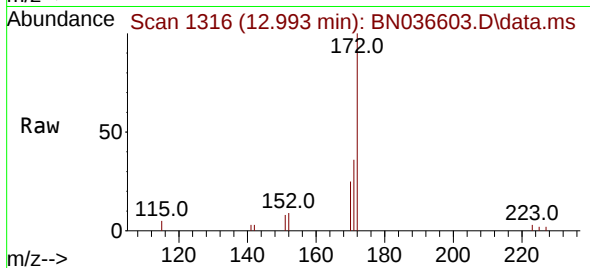




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

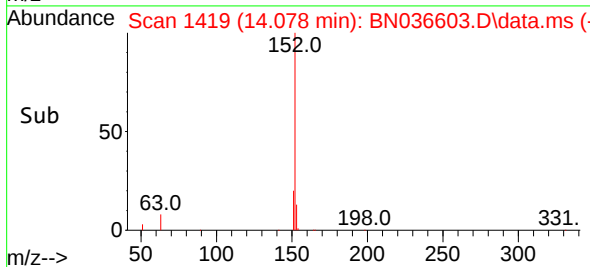
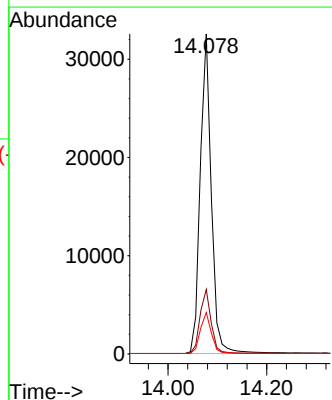
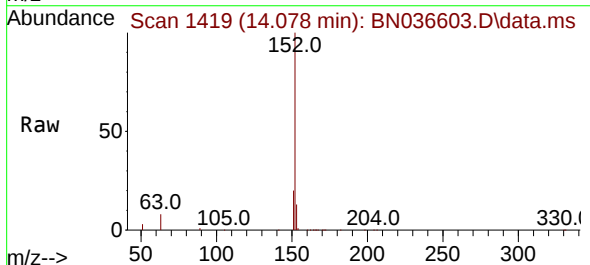
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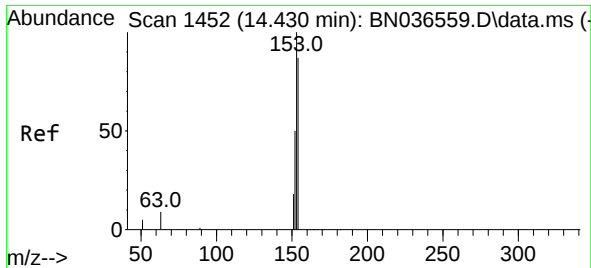
Tgt Ion:	172	Resp:	5290
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.5	44.3
170	25.0	20.2	30.4



#16
Acenaphthylene
Concen: 4.357 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:	152	Resp:	50637
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.2	24.4
153	12.9	10.6	15.8

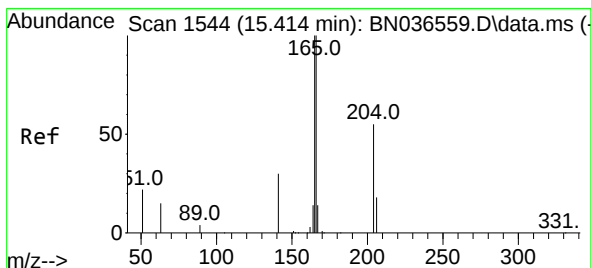
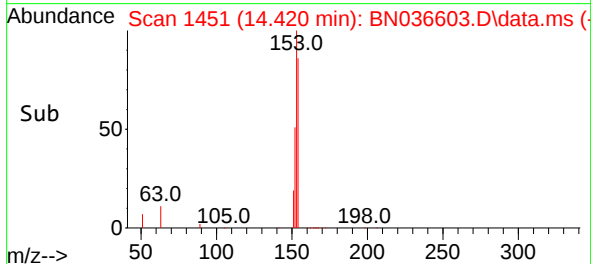
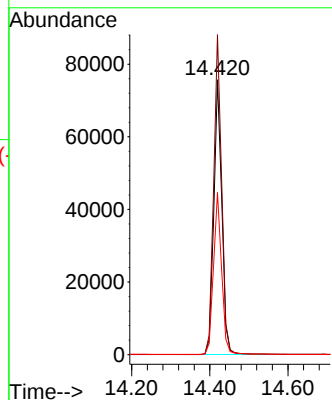
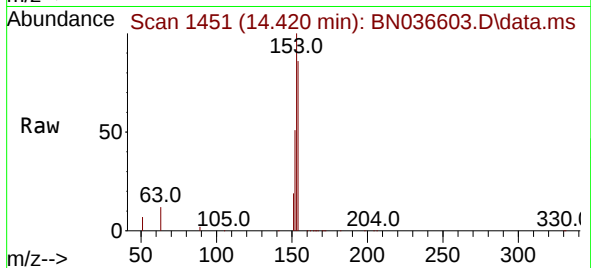




#17
Acenaphthene
Concen: 14.251 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

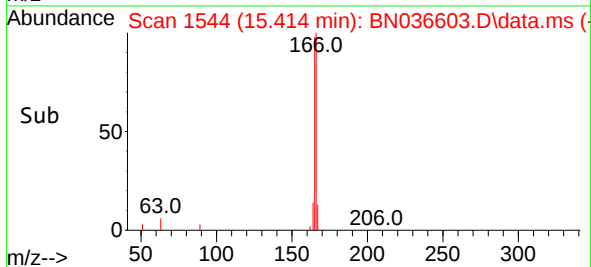
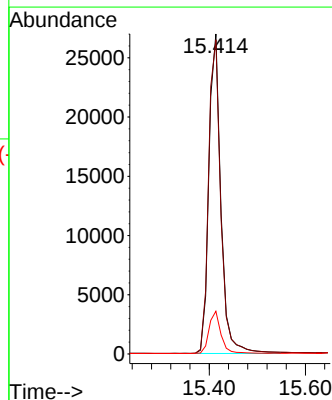
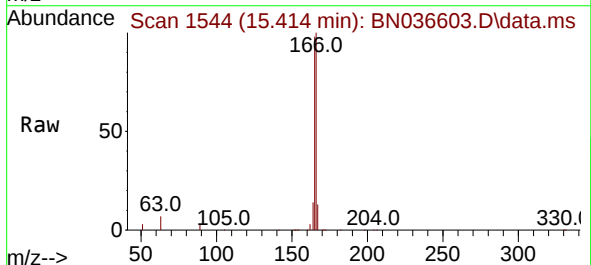
Instrument :
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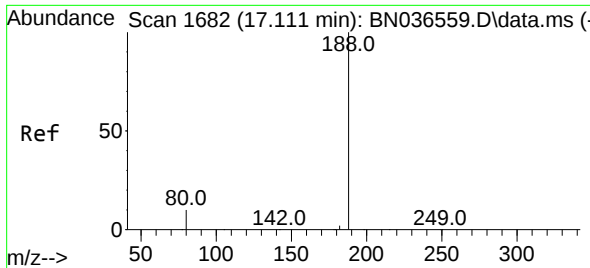
Tgt Ion:154 Resp: 108429
Ion Ratio Lower Upper
154 100
153 116.3 94.1 141.1
152 59.6 49.8 74.6



#18
Fluorene
Concen: 4.632 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:166 Resp: 47677
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.1 10.6 15.8

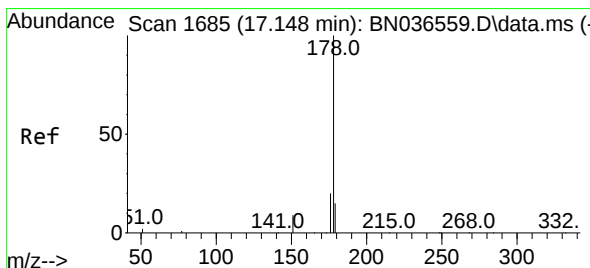
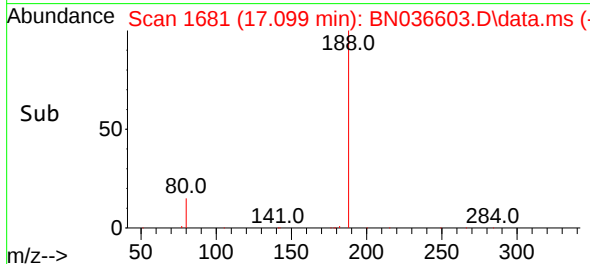
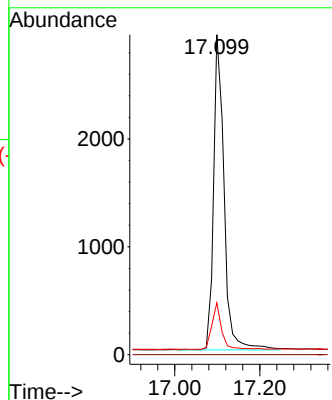
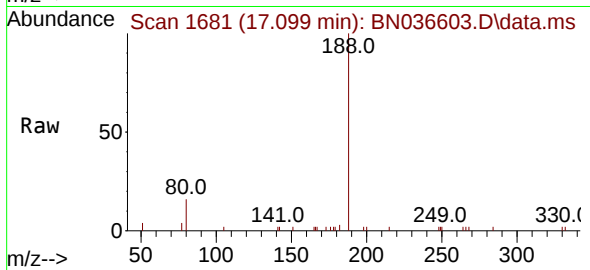




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

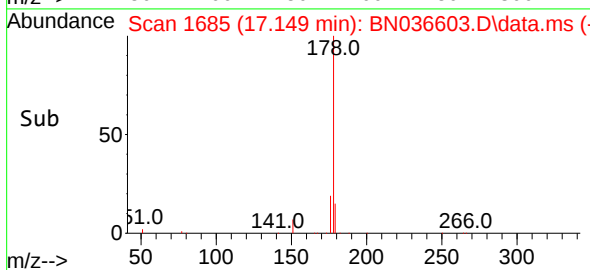
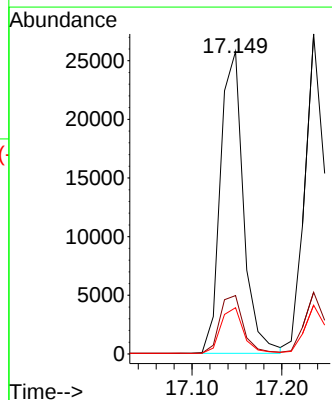
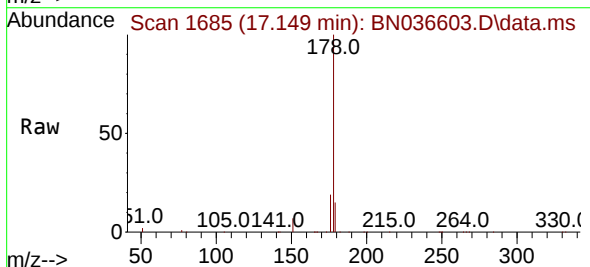
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

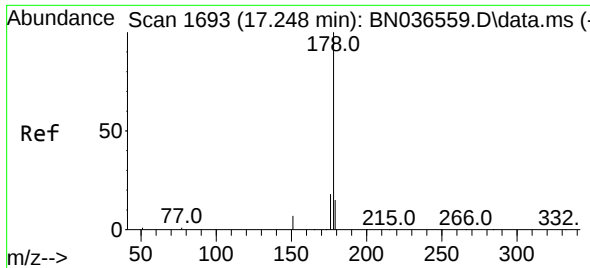
Tgt Ion:188 Resp: 4992
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.2 8.8 13.2#



#25
Phenanthrene
Concen: 3.064 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:178 Resp: 45880
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.0 12.2 18.4

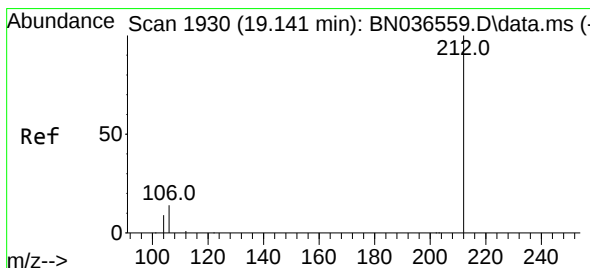
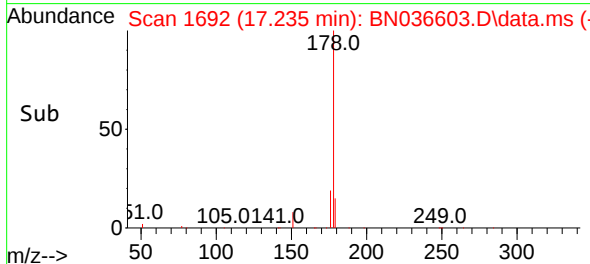
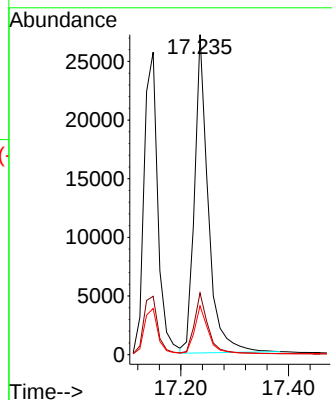
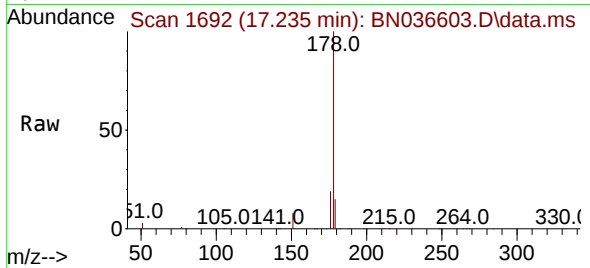




#26
 Anthracene
 Concen: 3.546 ng
 RT: 17.235 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

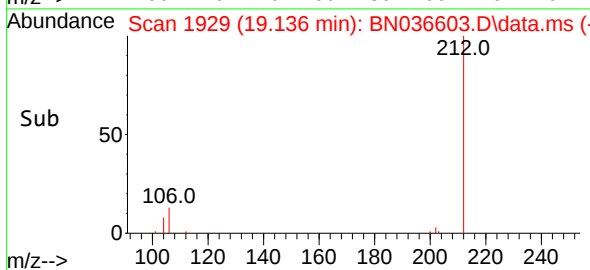
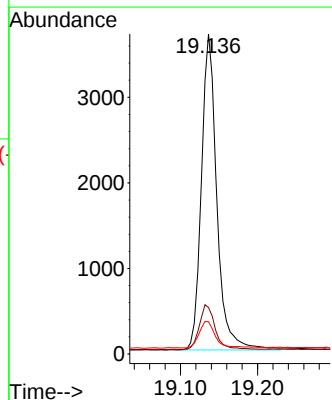
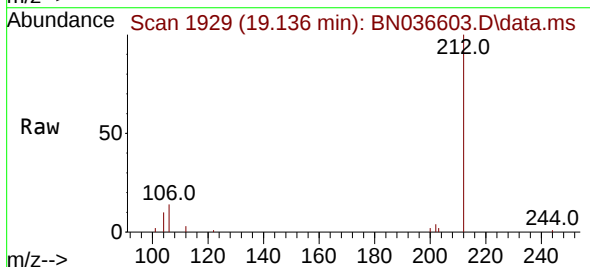
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

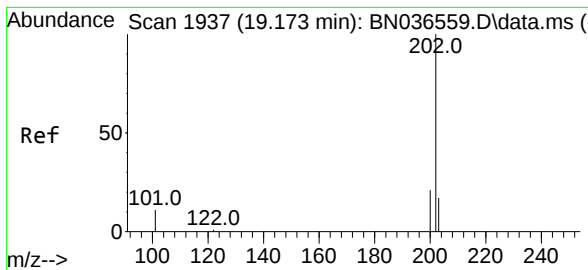
Tgt Ion:178 Resp: 47922
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.2
 179 15.3 12.6 18.8



#27
 Fluoranthene-d10
 Concen: 0.402 ng
 RT: 19.136 min Scan# 1929
 Delta R.T. -0.005 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

Tgt Ion:212 Resp: 5143
 Ion Ratio Lower Upper
 212 100
 106 14.4 11.8 17.6
 104 8.9 7.3 10.9

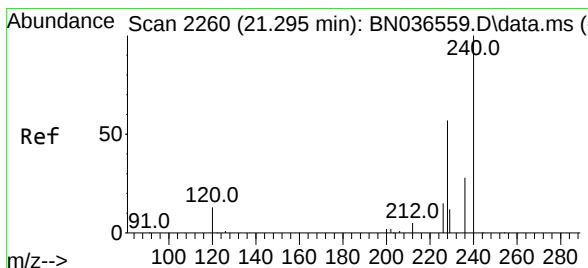
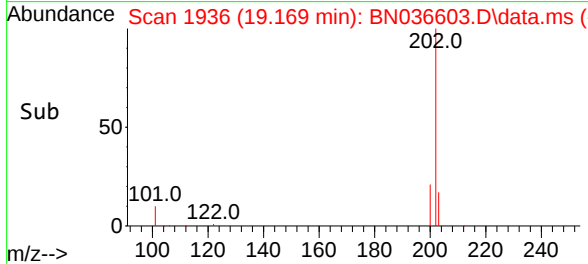
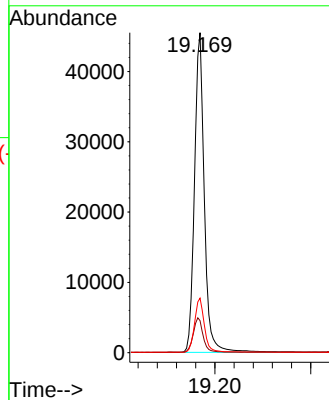
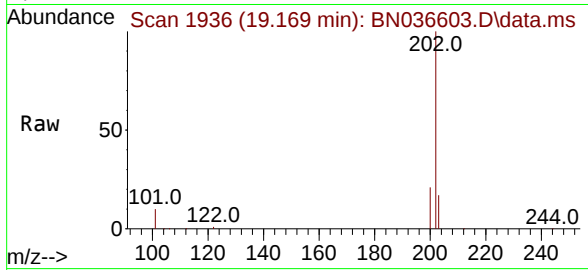




#28
Fluoranthene
Concen: 3.856 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

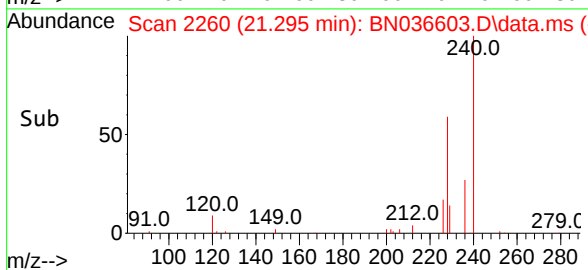
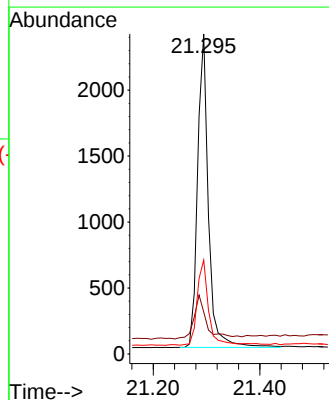
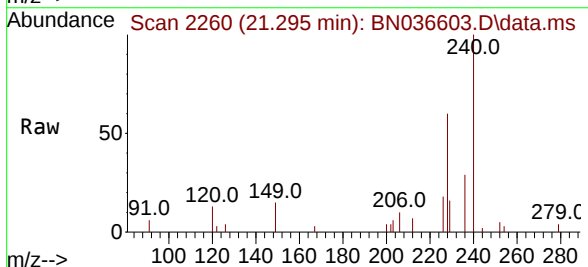
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

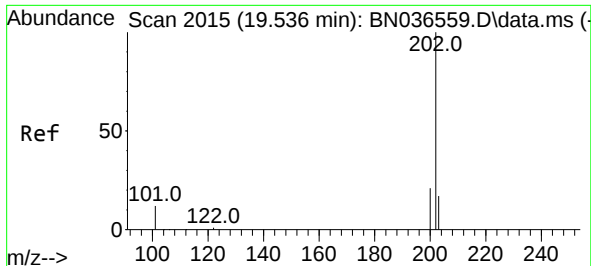
Tgt Ion:202 Resp: 64871
Ion Ratio Lower Upper
202 100
101 10.8 9.4 14.0
203 17.0 13.5 20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:240 Resp: 3361
Ion Ratio Lower Upper
240 100
120 13.1 14.6 22.0#
236 29.3 24.1 36.1

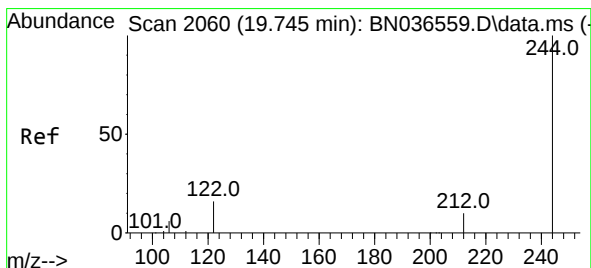
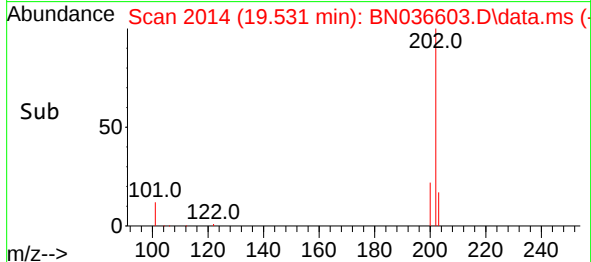
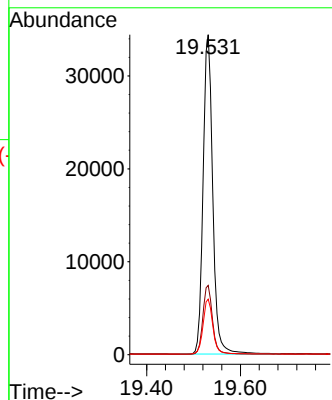
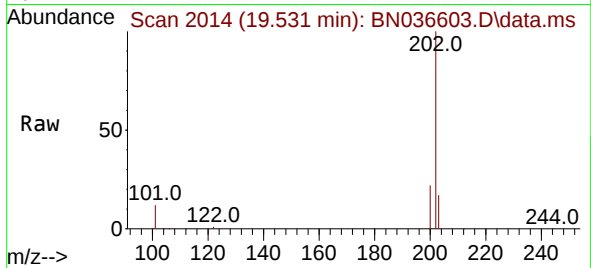




#30
Pyrene
Concen: 2.984 ng
RT: 19.531 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

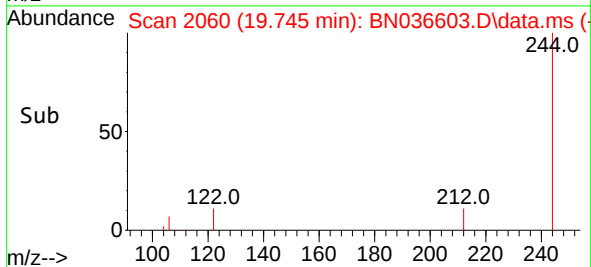
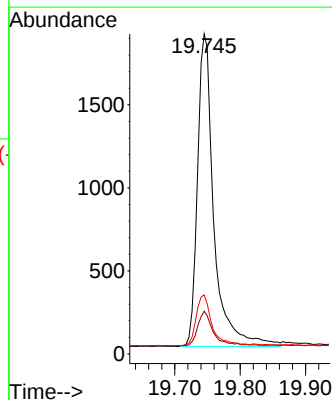
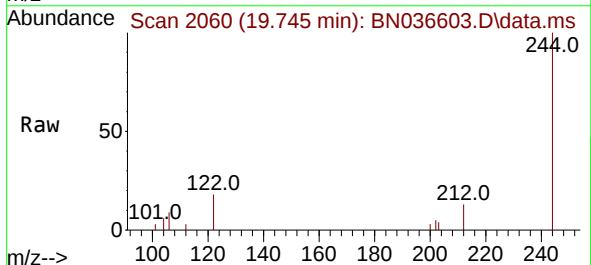
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

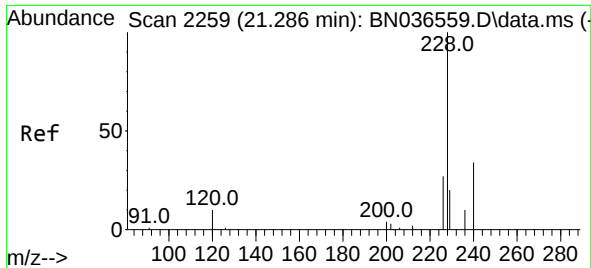
Tgt Ion:202 Resp: 49034
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 17.4 14.1 21.1



#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:244 Resp: 3276
Ion Ratio Lower Upper
244 100
212 13.3 9.6 14.4
122 18.4 13.9 20.9

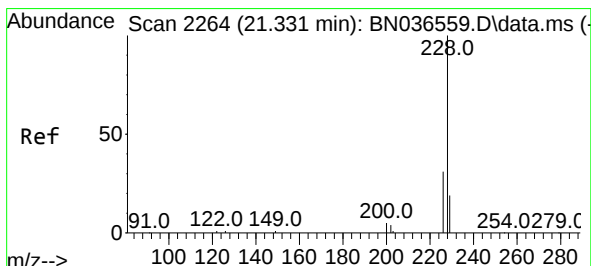
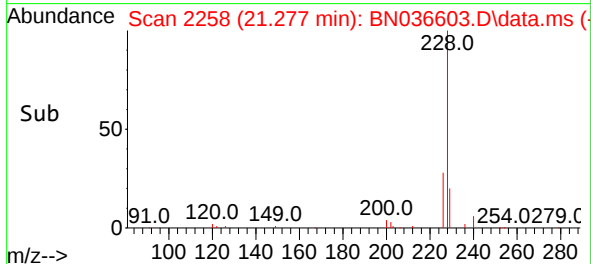
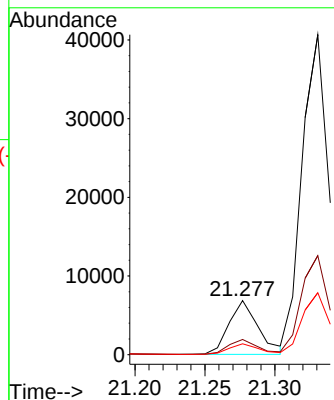
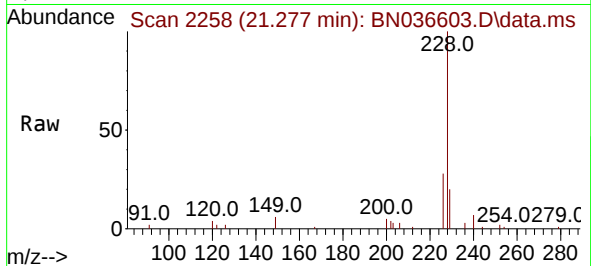




#32
Benzo(a)anthracene
Concen: 0.853 ng
RT: 21.277 min Scan# 21258
Delta R.T. -0.009 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

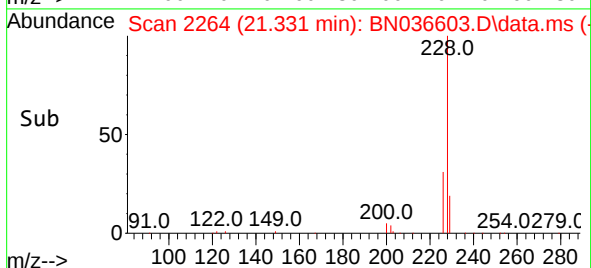
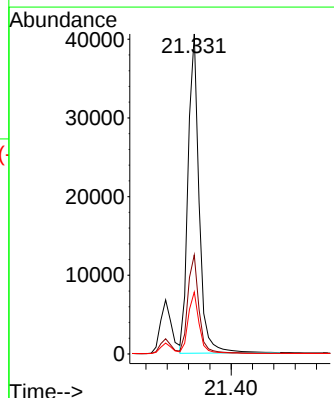
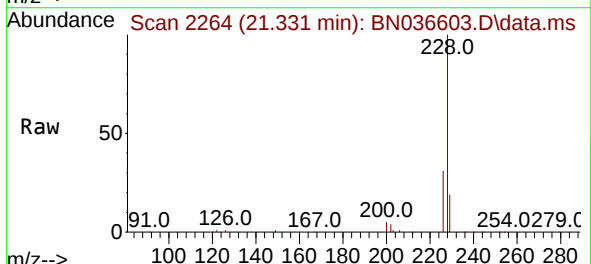
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

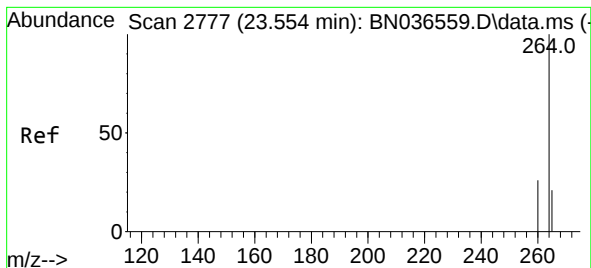
Tgt Ion:228 Resp: 9966
Ion Ratio Lower Upper
228 100
226 28.2 22.5 33.7
229 20.2 16.6 25.0



#33
Chrysene
Concen: 4.547 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:228 Resp: 58070
Ion Ratio Lower Upper
228 100
226 30.9 25.3 37.9
229 19.3 15.8 23.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

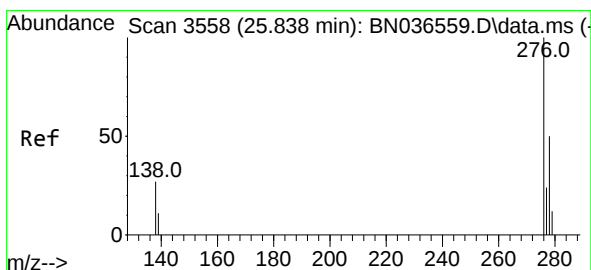
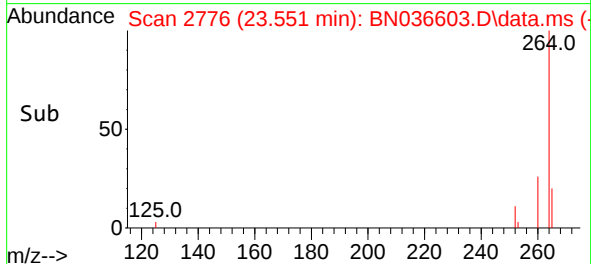
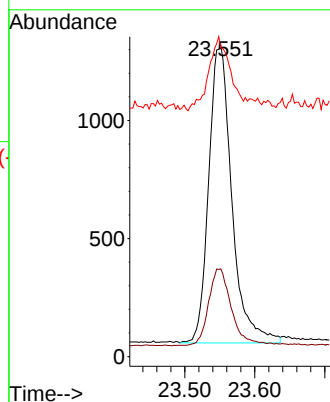
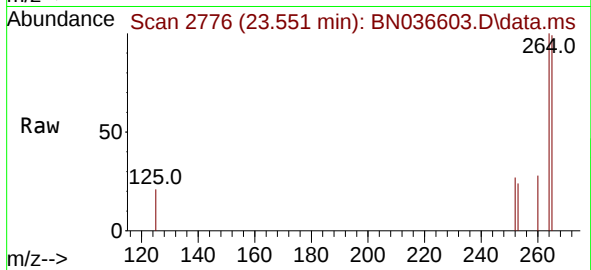
Tgt Ion:264 Resp: 2893

Ion Ratio Lower Upper

264 100

260 28.2 22.6 33.8

265 99.2 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.656 ng

RT: 25.820 min Scan# 3552

Delta R.T. -0.017 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

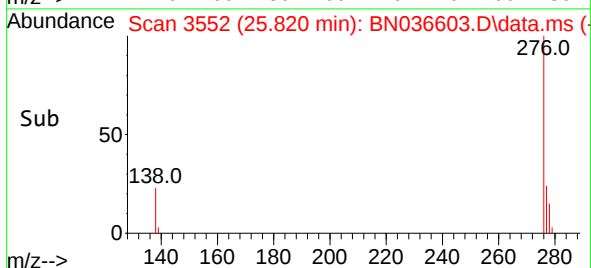
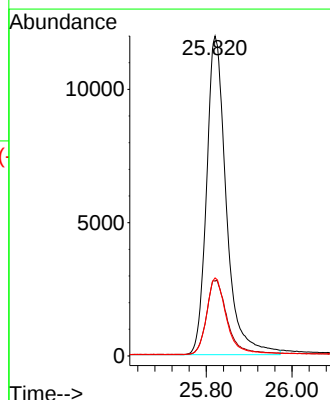
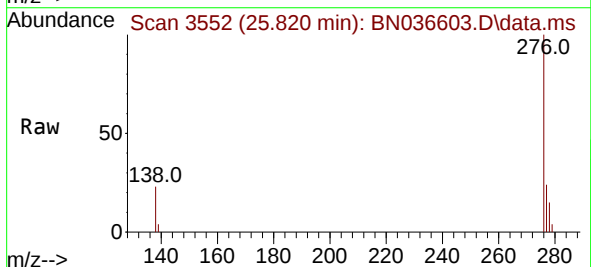
Tgt Ion:276 Resp: 38177

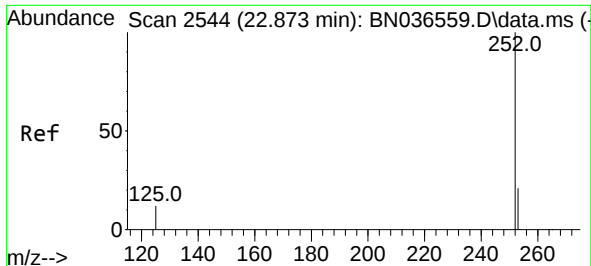
Ion Ratio Lower Upper

276 100

138 24.7 23.4 35.2

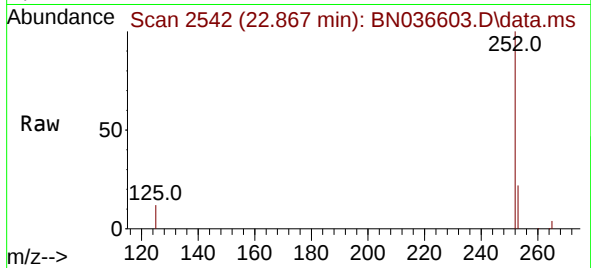
277 23.9 20.0 30.0



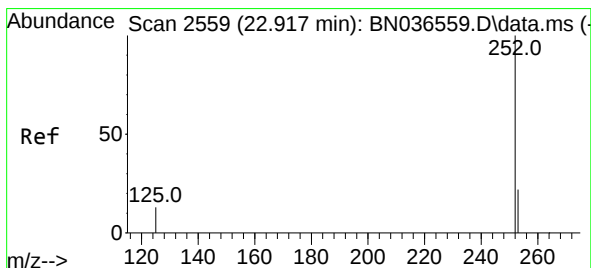
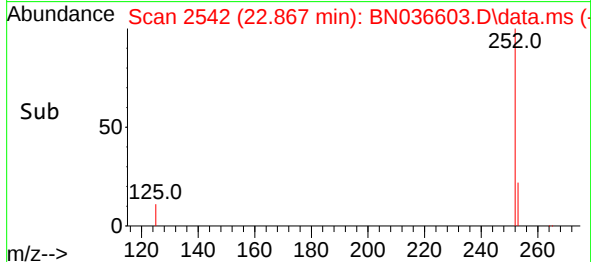
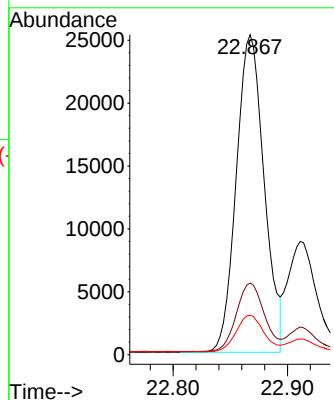


#37
Benzo(b)fluoranthene
Concen: 4.058 ng
RT: 22.867 min Scan# 2542
Delta R.T. -0.006 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

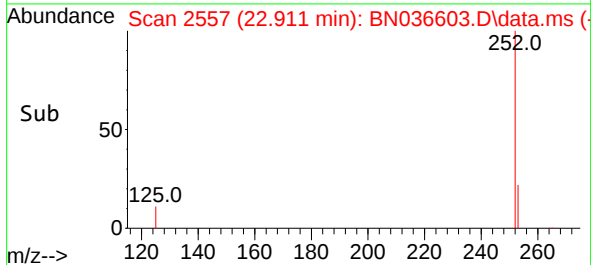
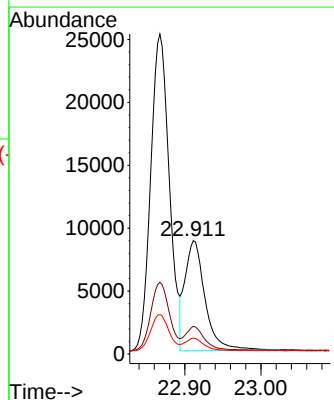
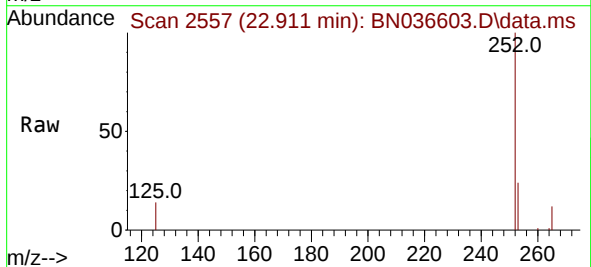


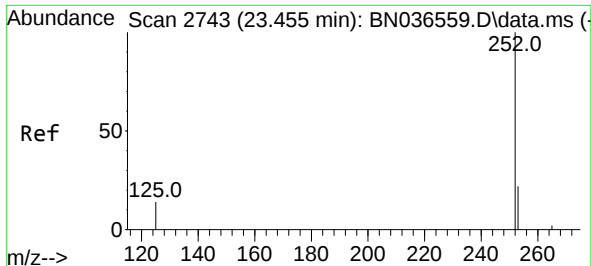
Tgt Ion:252 Resp: 42724
Ion Ratio Lower Upper
252 100
253 22.4 23.9 35.9#
125 12.3 17.4 26.2#



#38
Benzo(k)fluoranthene
Concen: 1.450 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

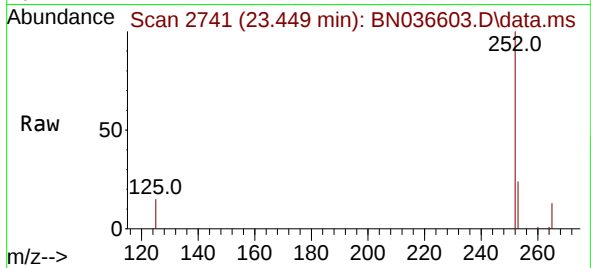
Tgt Ion:252 Resp: 16012
Ion Ratio Lower Upper
252 100
253 24.5 24.6 36.8#
125 13.8 17.8 26.8#



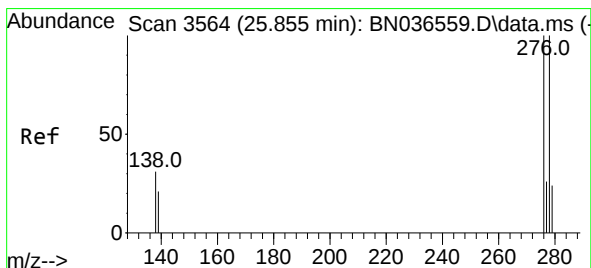
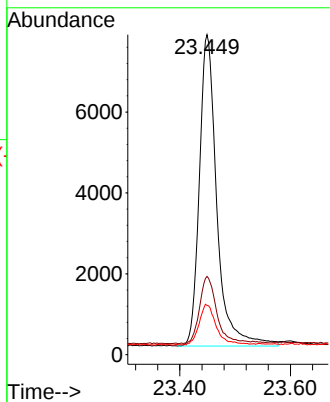
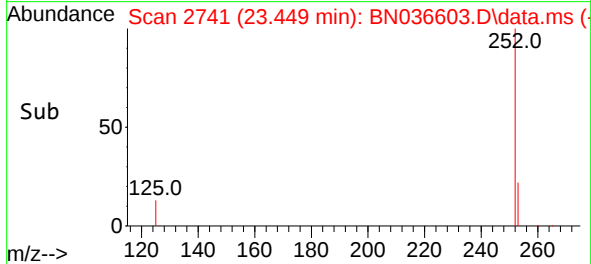


#39
Benzo(a)pyrene
Concen: 1.909 ng
RT: 23.449 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

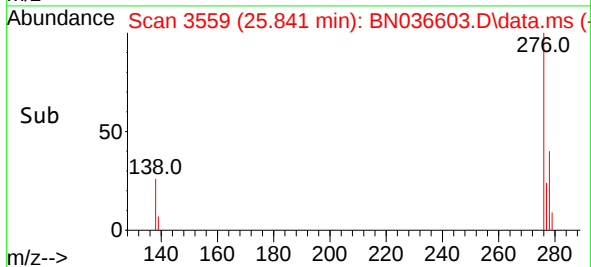
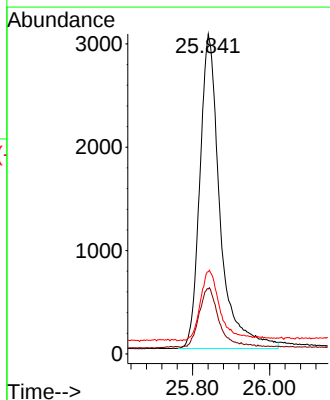
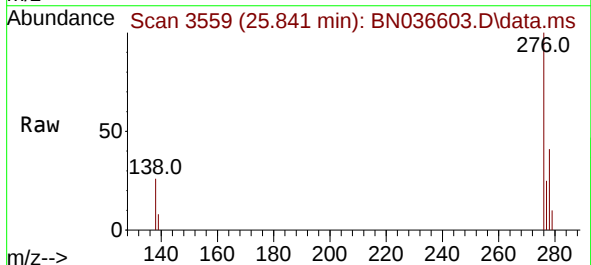


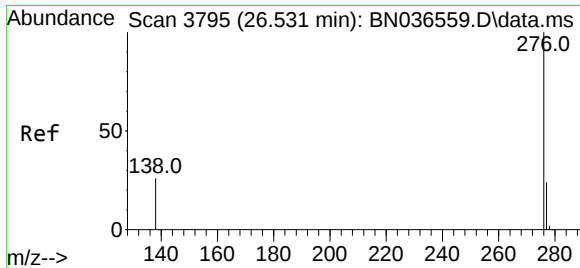
Tgt Ion:252 Resp: 16926
Ion Ratio Lower Upper
252 100
253 24.5 27.8 41.8#
125 15.4 22.7 34.1#



#40
Dibenzo(a,h)anthracene
Concen: 1.360 ng
RT: 25.841 min Scan# 3559
Delta R.T. -0.015 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:278 Resp: 11055
Ion Ratio Lower Upper
278 100
139 20.3 20.8 31.2#
279 25.7 28.8 43.2#





#41
Benzo(g,h,i)perylene
Concen: 2.115 ng
RT: 26.522 min Scan# 31
Delta R.T. -0.009 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion:276 Resp: 19668
Ion Ratio Lower Upper
276 100
277 24.1 22.2 33.4
138 25.8 24.1 36.1

