

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
 Data File : BN038127.D
 Acq On : 30 Oct 2025 17:48
 Operator : RC/JU
 Sample : Q3015-21DL 10X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Oct 30 18:14:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

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

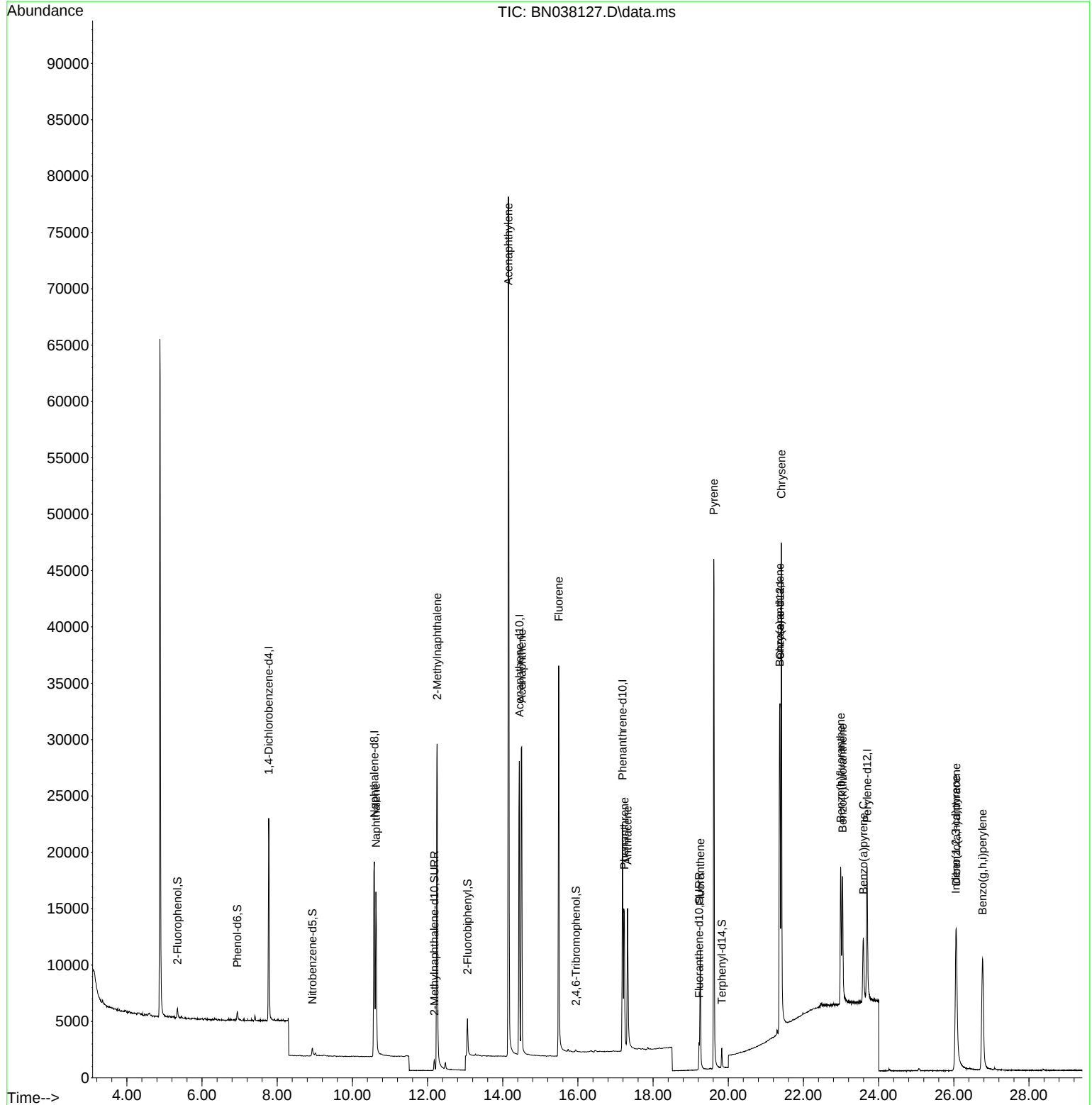
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	9488	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	27065	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	15653	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	29258	0.400	ng	0.00
29) Chrysene-d12	21.376	240	21213	0.400	ng	# 0.00
35) Perylene-d12	23.692	264	18032	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	815	0.036	ng	0.00
5) Phenol-d6	6.937	99	943	0.035	ng	0.00
8) Nitrobenzene-d5	8.939	82	926	0.042	ng	0.01
11) 2-Methylnaphthalene-d10	12.177	152	1506	0.039	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	143	0.022	ng	0.01
15) 2-Fluorobiphenyl	13.062	172	3535	0.056	ng	0.01
27) Fluoranthene-d10	19.225	212	2978	0.040	ng	0.00
31) Terphenyl-d14	19.829	244	2085	0.045	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.626	128	20667	0.277	ng	99
12) 2-Methylnaphthalene	12.253	142	25022	0.503	ng	99
16) Acenaphthylene	14.153	152	85740	1.210	ng	100
17) Acenaphthene	14.505	154	15304	0.309	ng	96
18) Fluorene	15.489	166	25016	0.385	ng	99
25) Phenanthrene	17.236	178	15557	0.167	ng	99
26) Anthracene	17.322	178	15763	0.194	ng	99
28) Fluoranthene	19.257	202	10895	0.105	ng	100
30) Pyrene	19.615	202	44227	0.462	ng	99
32) Benzo(a)anthracene	21.367	228	19436	0.257	ng	99
33) Chrysene	21.411	228	38245	0.466	ng	99
36) Indeno(1,2,3-cd)pyrene	26.054	276	12519	0.169	ng	# 89
37) Benzo(b)fluoranthene	22.990	252	16038	0.208	ng	# 94
38) Benzo(k)fluoranthene	23.037	252	17020	0.219	ng	96
39) Benzo(a)pyrene	23.593	252	10103	0.164	ng	# 80
40) Dibenzo(a,h)anthracene	26.066	278	21455	0.376	ng	98
41) Benzo(g,h,i)perylene	26.765	276	23113	0.355	ng	99

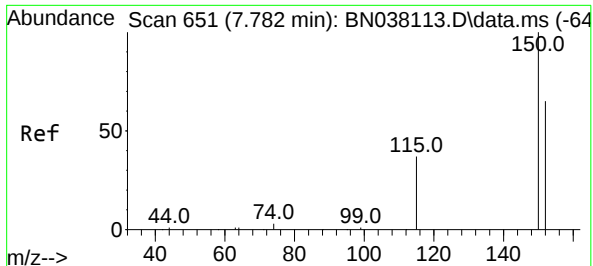
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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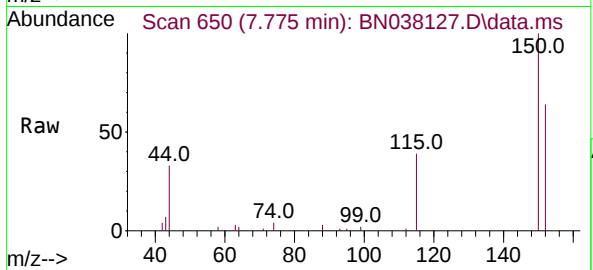
Quant Time: Oct 30 18:14:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration



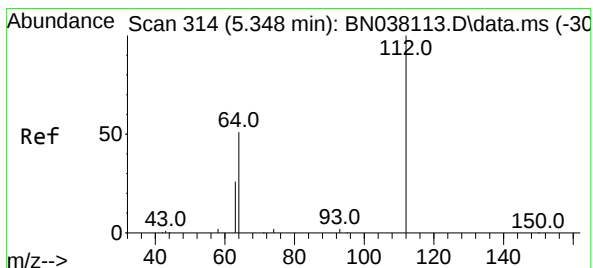
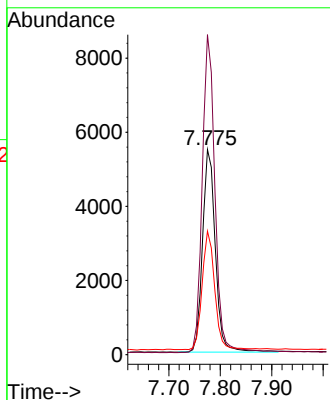
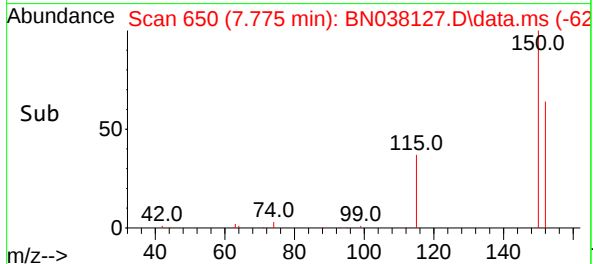


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

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

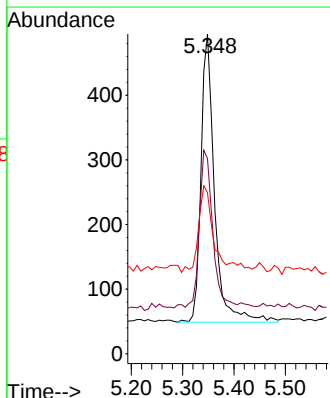
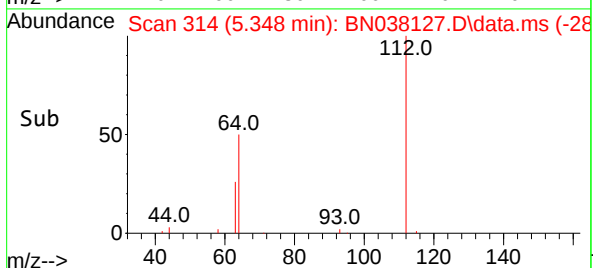
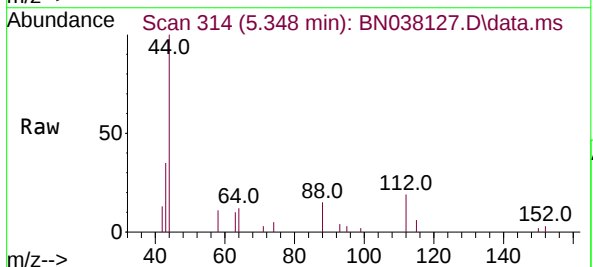


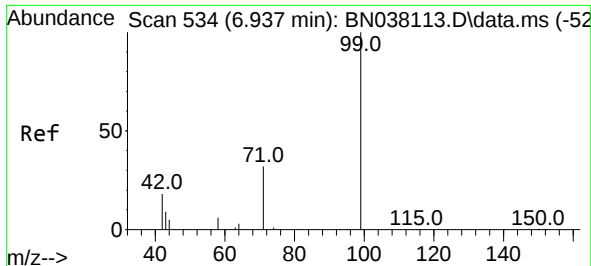
Tgt Ion:152 Resp: 9488
Ion Ratio Lower Upper
152 100
150 156.1 122.3 183.5
115 60.2 47.4 71.0



#4
2-Fluorophenol
Concen: 0.036 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

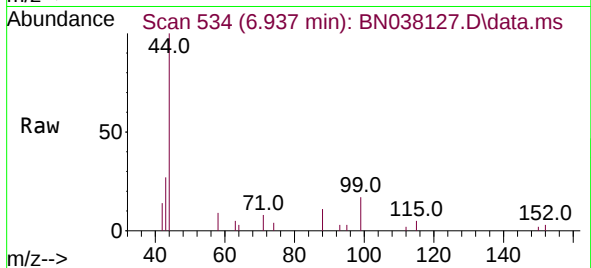
Tgt Ion:112 Resp: 815
Ion Ratio Lower Upper
112 100
64 54.8 45.4 68.0
63 31.7 23.2 34.8



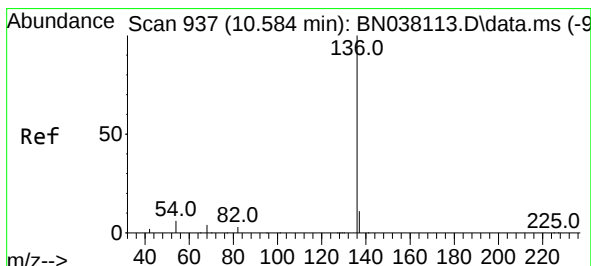
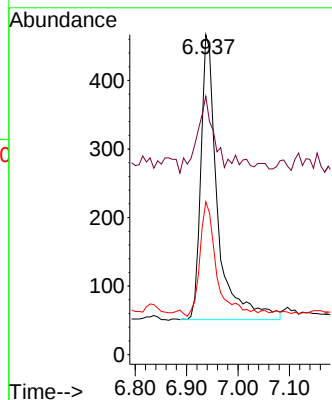
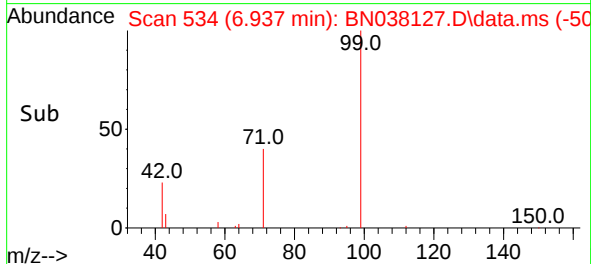


#5
Phenol-d6
Concen: 0.035 ng
RT: 6.937 min Scan# 534
Delta R.T. 0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

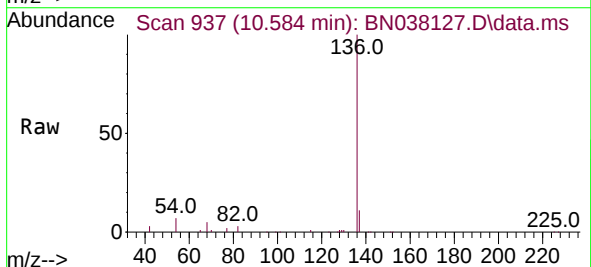
Instrument :
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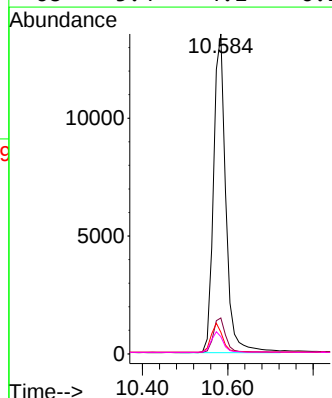
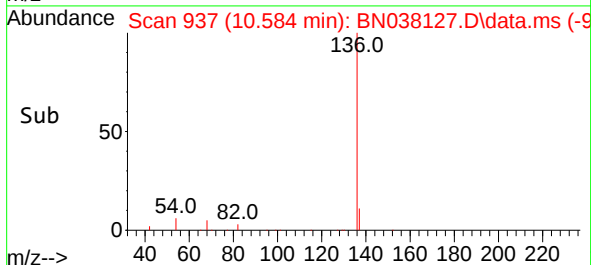
Tgt Ion: 99 Resp: 943
Ion Ratio Lower Upper
99 100
42 27.8 16.6 24.8#
71 40.0 25.4 38.2#

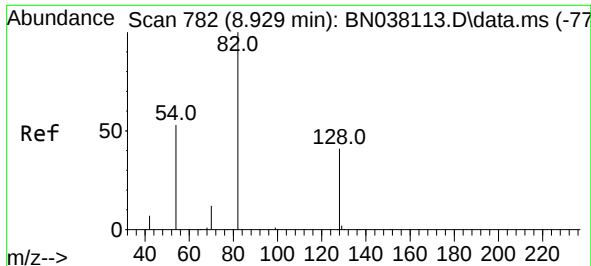


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 937
Delta R.T. 0.011 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48



Tgt Ion: 136 Resp: 27065
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 6.8 5.2 7.8
68 5.4 4.1 6.1

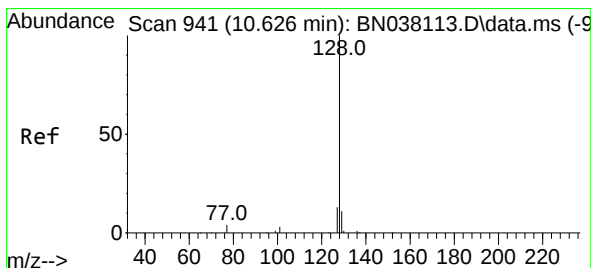
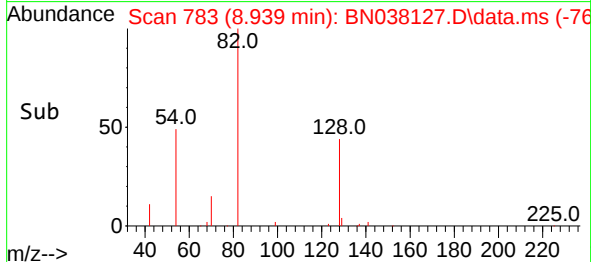
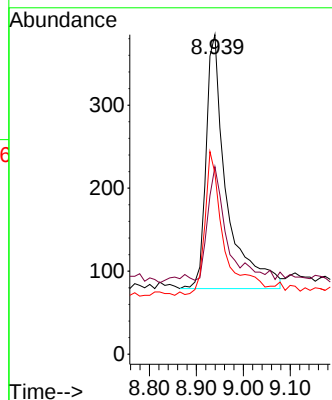
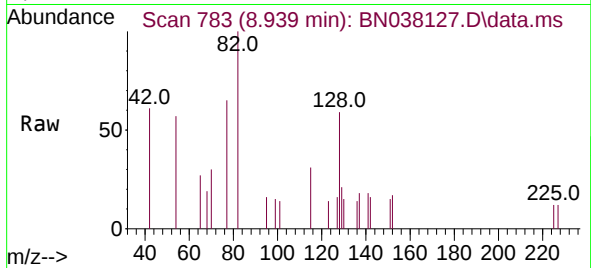




#8
 Nitrobenzene-d5
 Concen: 0.042 ng
 RT: 8.939 min Scan# 782
 Delta R.T. 0.011 min
 Lab File: BN038127.D
 Acq: 30 Oct 2025 17:48

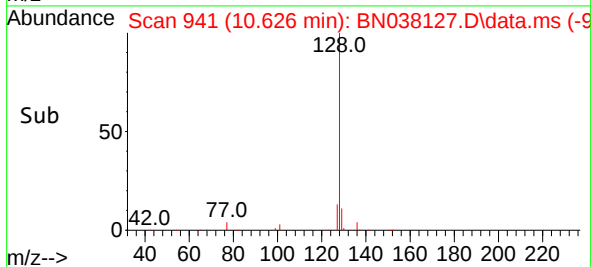
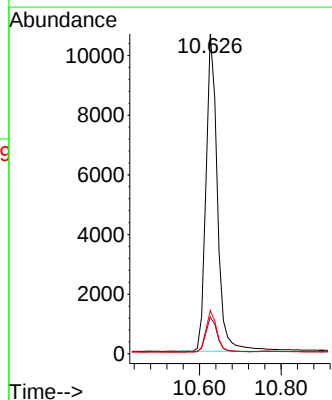
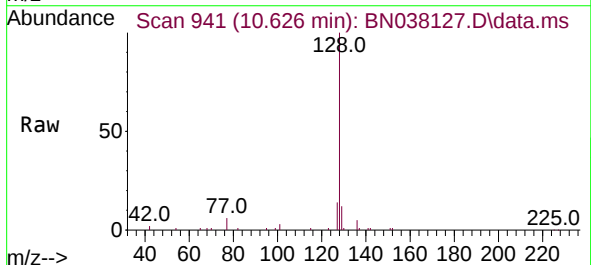
Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WPDL

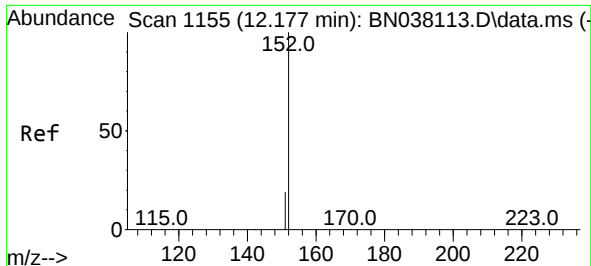
Tgt Ion: 82 Resp: 926
 Ion Ratio Lower Upper
 82 100
 128 58.7 34.1 51.1#
 54 56.6 43.5 65.3



#9
 Naphthalene
 Concen: 0.277 ng
 RT: 10.626 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: BN038127.D
 Acq: 30 Oct 2025 17:48

Tgt Ion: 128 Resp: 20667
 Ion Ratio Lower Upper
 128 100
 129 11.5 9.1 13.7
 127 13.6 10.5 15.7

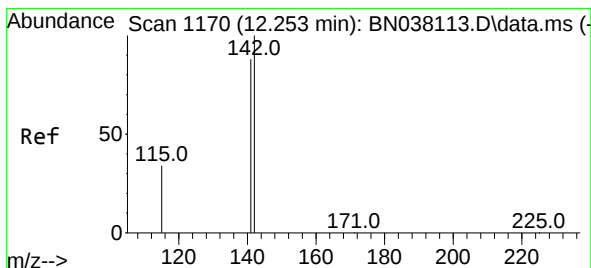
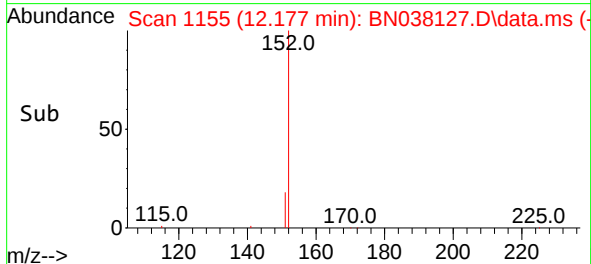
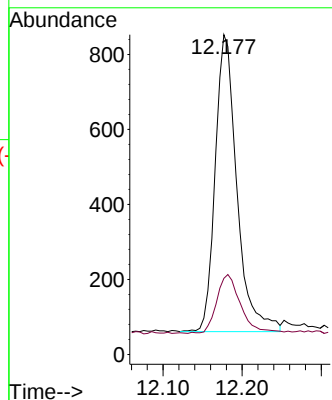
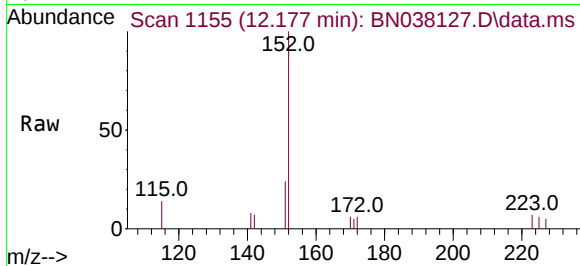




#11
2-Methylnaphthalene-d10
Concen: 0.039 ng
RT: 12.177 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

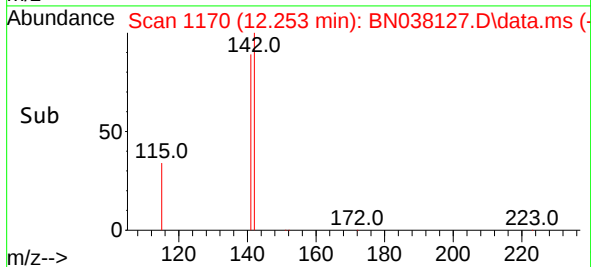
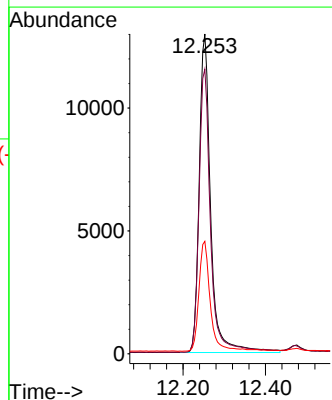
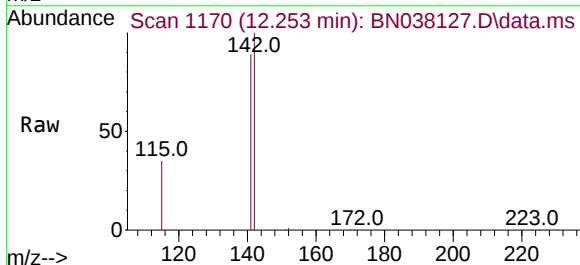
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

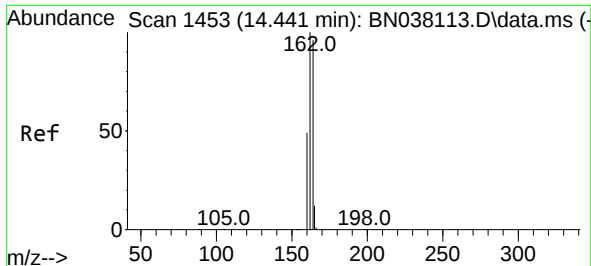
Tgt Ion:152 Resp: 1506
Ion Ratio Lower Upper
152 100
151 22.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.503 ng
RT: 12.253 min Scan# 1170
Delta R.T. 0.005 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

Tgt Ion:142 Resp: 25022
Ion Ratio Lower Upper
142 100
141 89.0 70.3 105.5
115 35.2 27.8 41.6

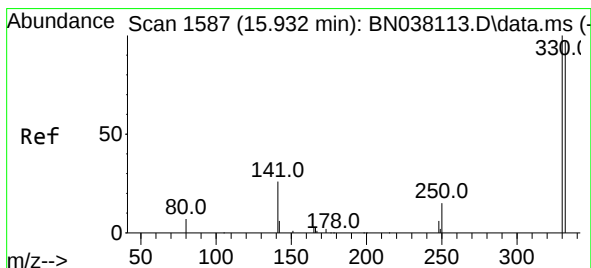
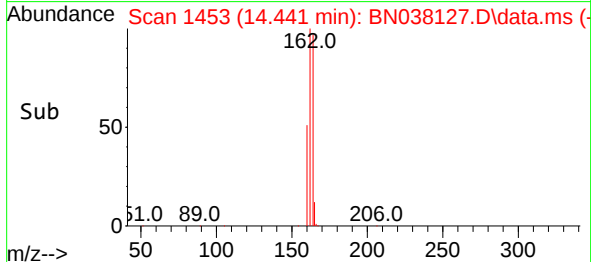
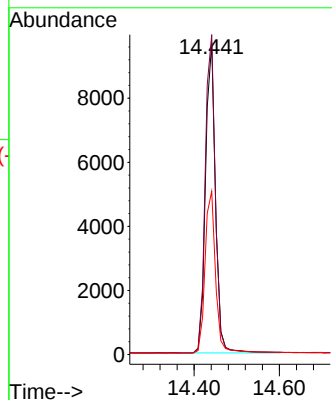
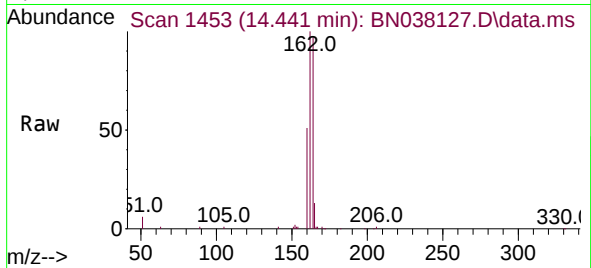




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

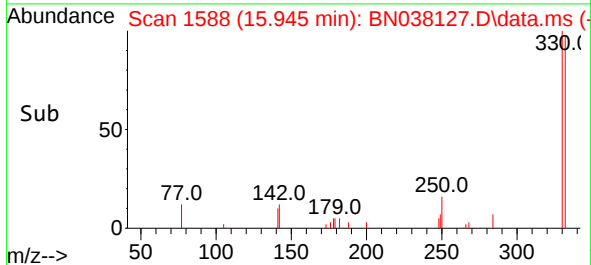
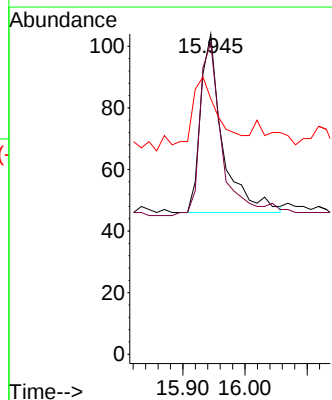
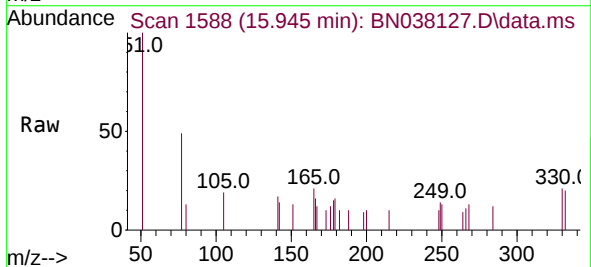
Instrument :
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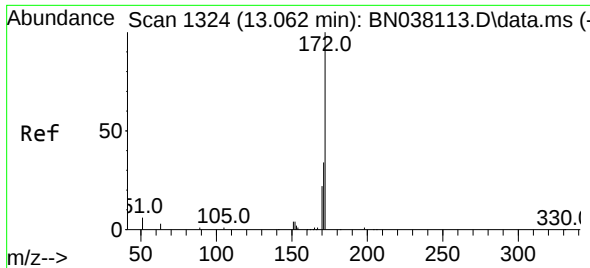
Tgt Ion:164 Resp: 15653
Ion Ratio Lower Upper
164 100
162 102.7 83.0 124.4
160 52.4 40.7 61.1



#14
2,4,6-Tribromophenol
Concen: 0.022 ng
RT: 15.945 min Scan# 1588
Delta R.T. 0.013 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

Tgt Ion:330 Resp: 143
Ion Ratio Lower Upper
330 100
332 99.3 76.6 114.8
141 42.7 34.1 51.1

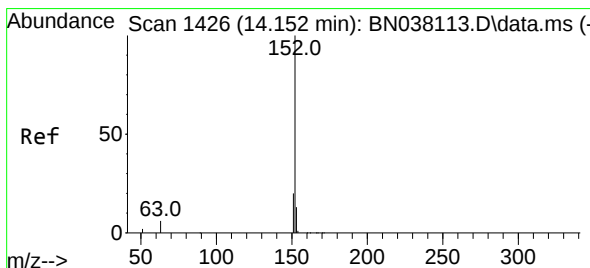
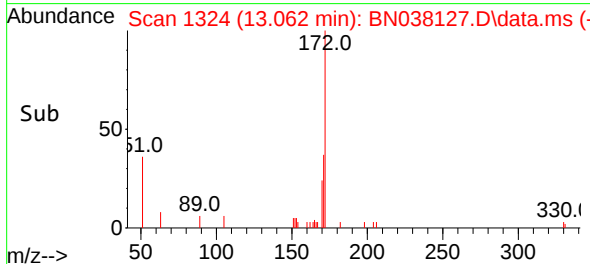
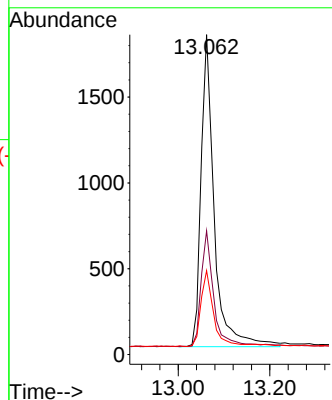
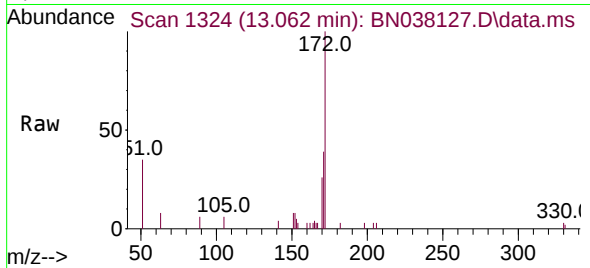




#15
2-Fluorobiphenyl
Concen: 0.056 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.011 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

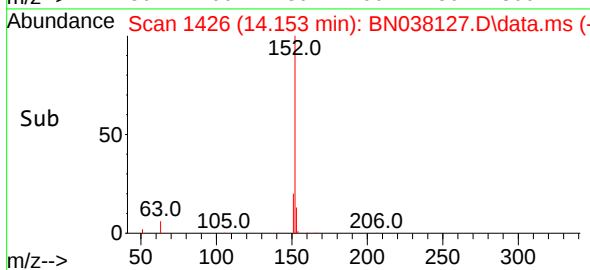
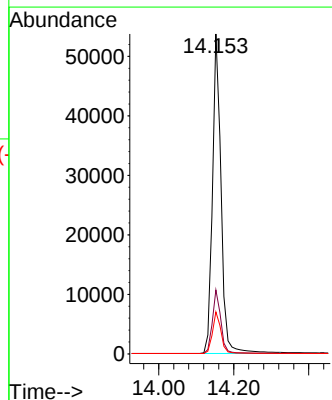
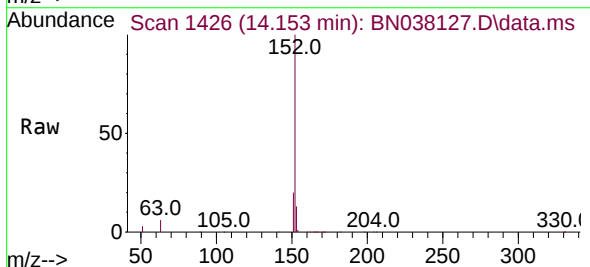
Instrument :
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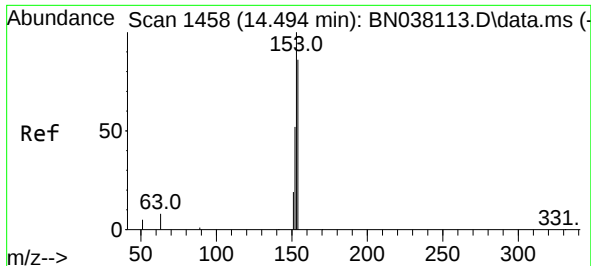
Tgt Ion:	172	Resp:	3535
Ion Ratio	Lower	Upper	
172	100		
171	38.7	27.8	41.6
170	26.2	18.1	27.1



#16
Acenaphthylene
Concen: 1.210 ng
RT: 14.153 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

Tgt Ion:	152	Resp:	85740
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	13.1	10.2	15.2

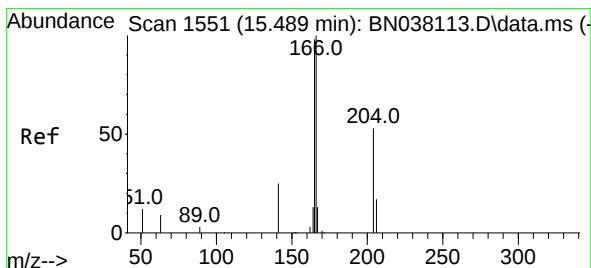
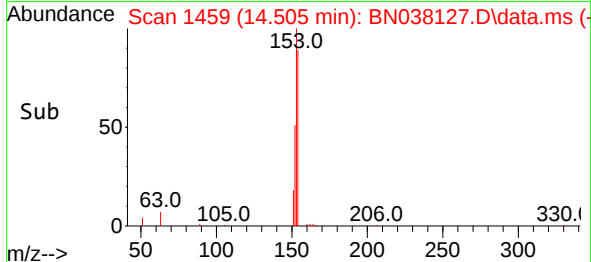
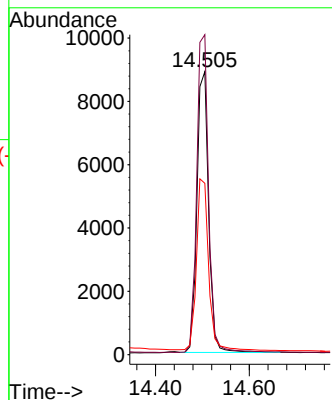
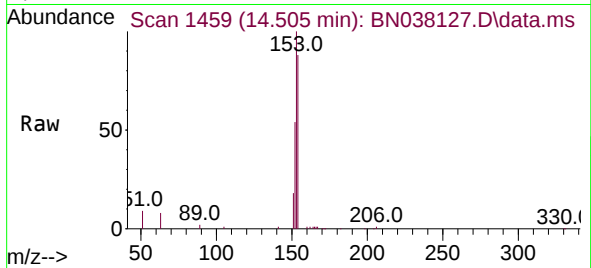




#17
Acenaphthene
Concen: 0.309 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

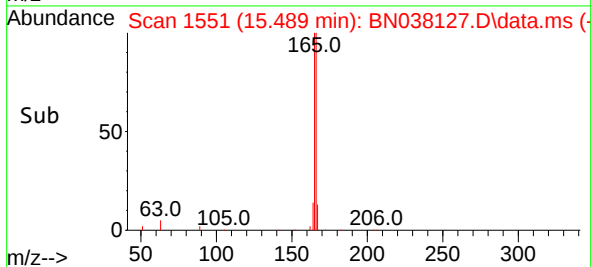
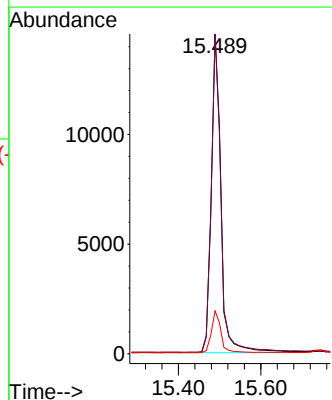
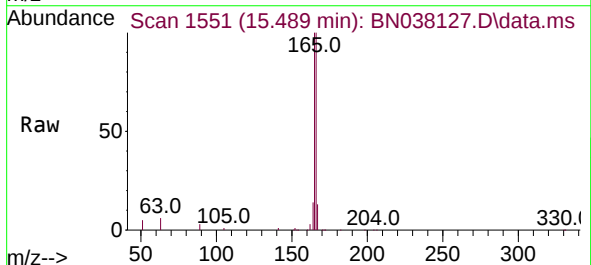
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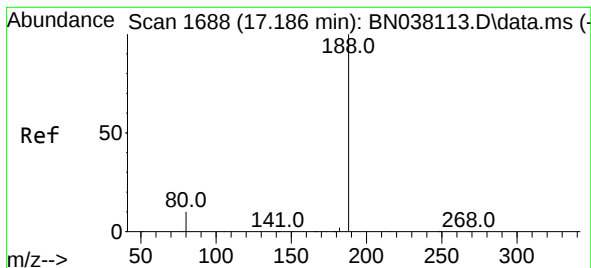
Tgt Ion:154 Resp: 15304
Ion Ratio Lower Upper
154 100
153 115.9 90.0 135.0
152 63.6 47.3 70.9



#18
Fluorene
Concen: 0.385 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

Tgt Ion:166 Resp: 25016
Ion Ratio Lower Upper
166 100
165 99.6 79.0 118.4
167 13.1 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038127.D

Acq: 30 Oct 2025 17:48

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

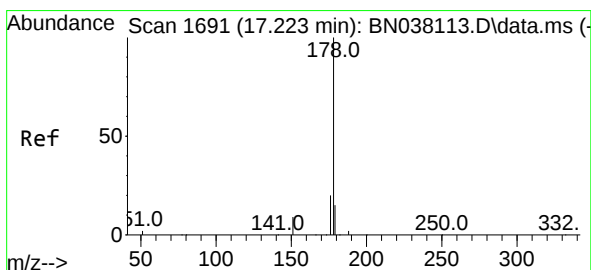
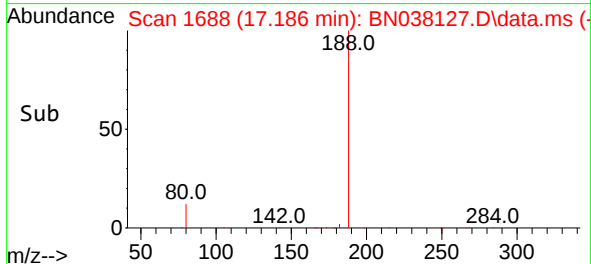
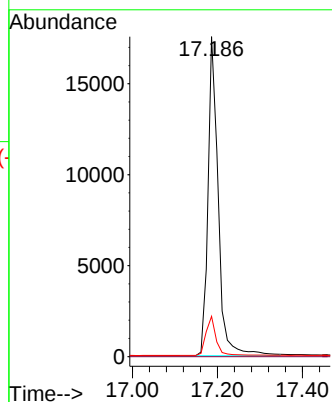
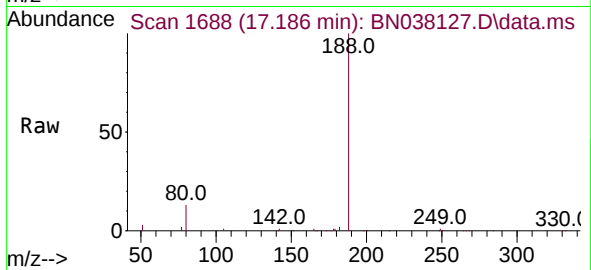
Tgt Ion:188 Resp: 29258

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.6 8.6 13.0



#25

Phenanthrene

Concen: 0.167 ng

RT: 17.236 min Scan# 1692

Delta R.T. 0.013 min

Lab File: BN038127.D

Acq: 30 Oct 2025 17:48

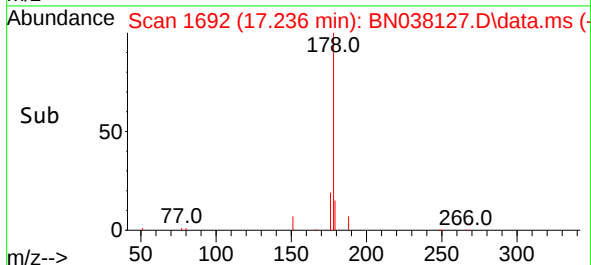
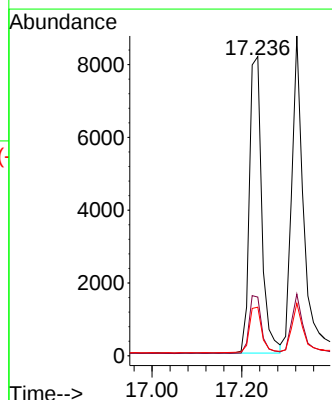
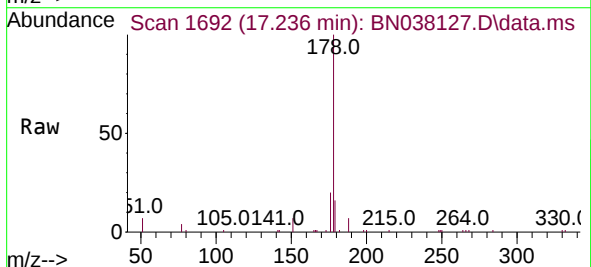
Tgt Ion:178 Resp: 15557

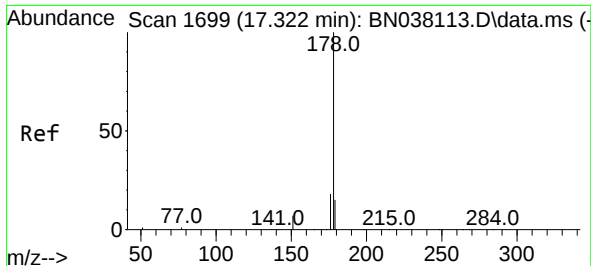
Ion Ratio Lower Upper

178 100

176 19.6 15.5 23.3

179 15.7 12.2 18.4

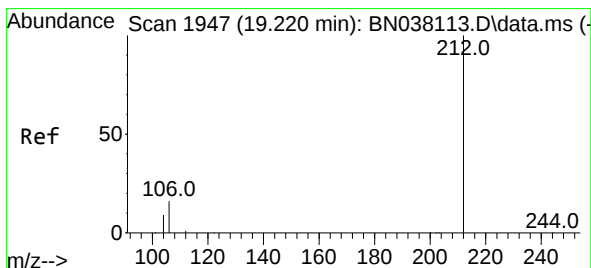
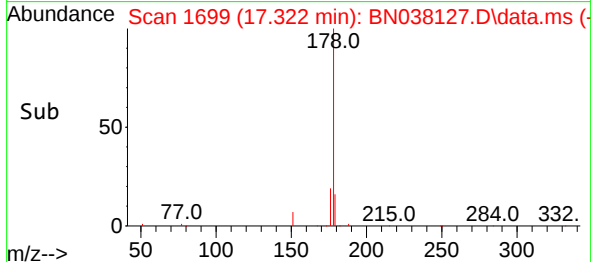
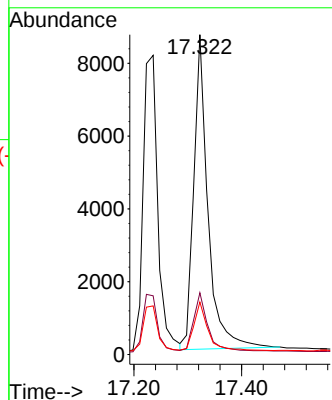
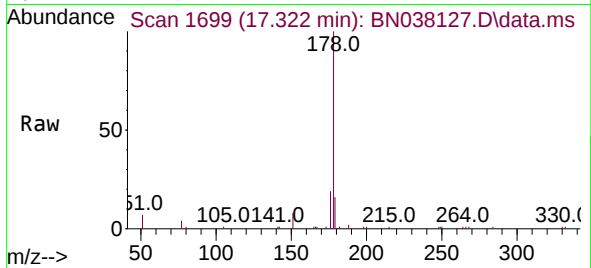




#26
 Anthracene
 Concen: 0.194 ng
 RT: 17.322 min Scan# 1699
 Delta R.T. 0.000 min
 Lab File: BN038127.D
 Acq: 30 Oct 2025 17:48

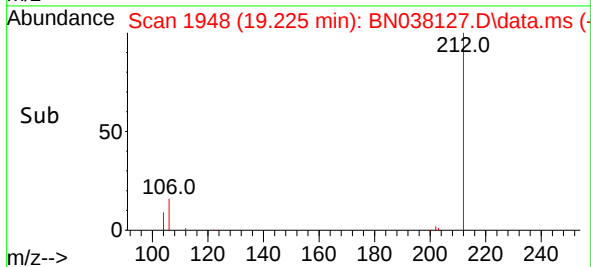
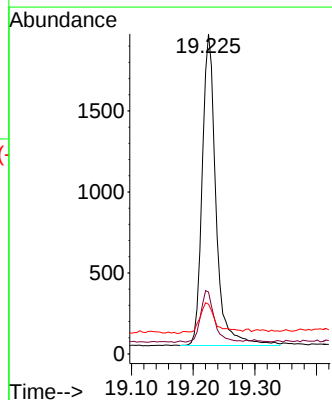
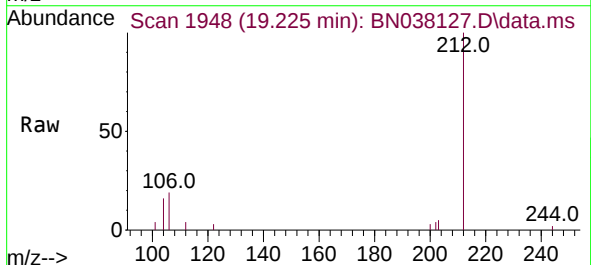
Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WPDL

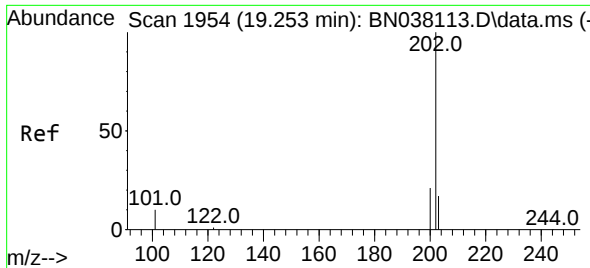
Tgt Ion:178 Resp: 15763
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 15.5 11.8 17.8



#27
 Fluoranthene-d10
 Concen: 0.040 ng
 RT: 19.225 min Scan# 1948
 Delta R.T. 0.005 min
 Lab File: BN038127.D
 Acq: 30 Oct 2025 17:48

Tgt Ion:212 Resp: 2978
 Ion Ratio Lower Upper
 212 100
 106 16.3 12.6 19.0
 104 10.0 7.1 10.7

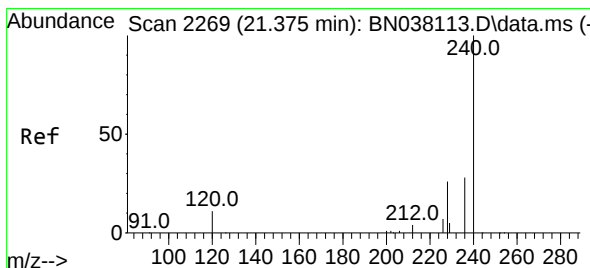
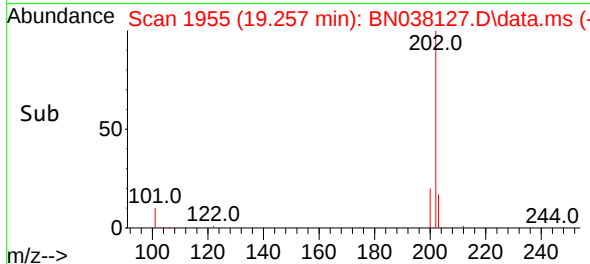
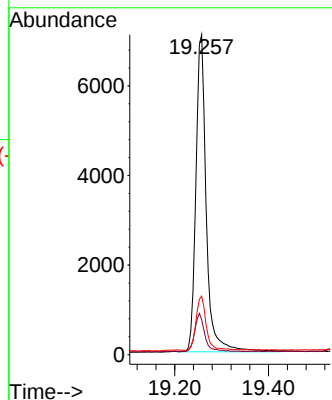
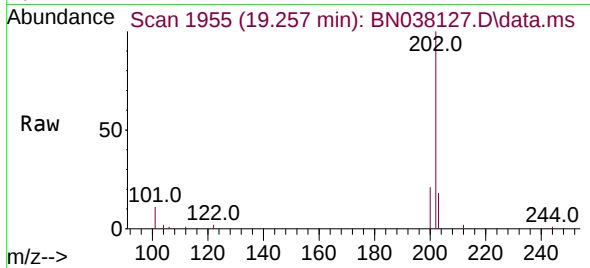




#28
Fluoranthene
Concen: 0.105 ng
RT: 19.257 min Scan# 1954
Delta R.T. 0.005 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

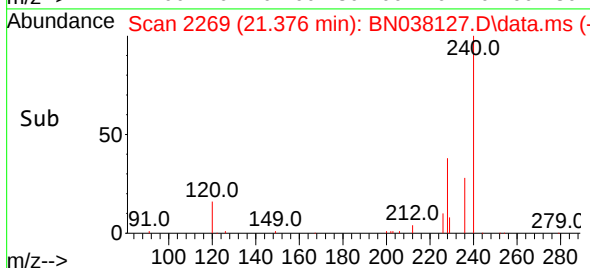
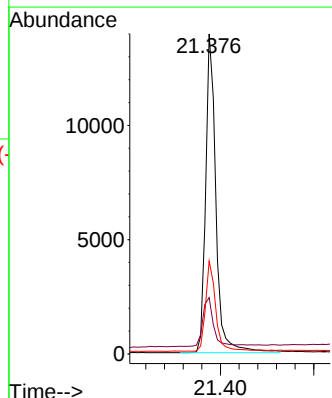
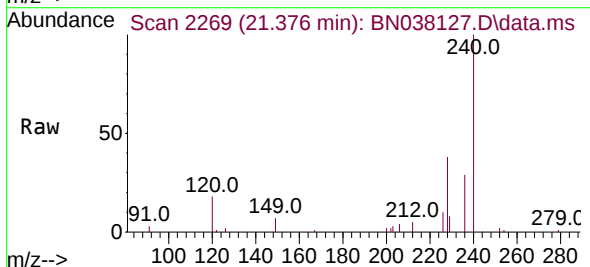
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

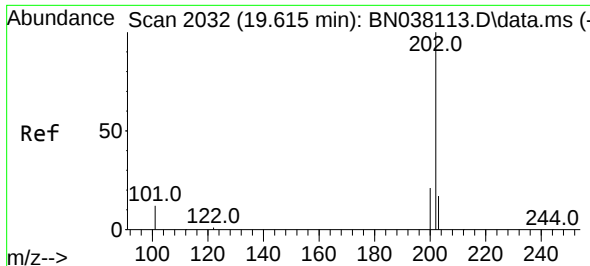
Tgt Ion:202 Resp: 10895
Ion Ratio Lower Upper
202 100
101 12.0 9.4 14.2
203 16.9 13.4 20.2



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

Tgt Ion:240 Resp: 21213
Ion Ratio Lower Upper
240 100
120 17.6 10.7 16.1#
236 29.0 23.1 34.7

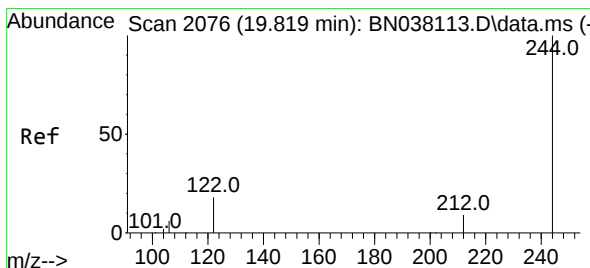
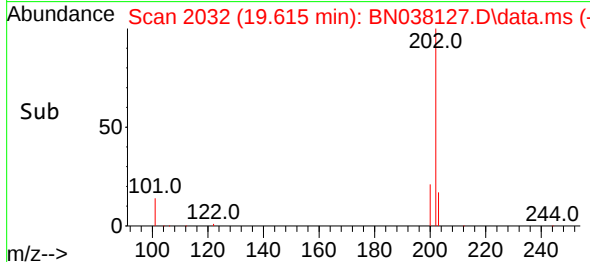
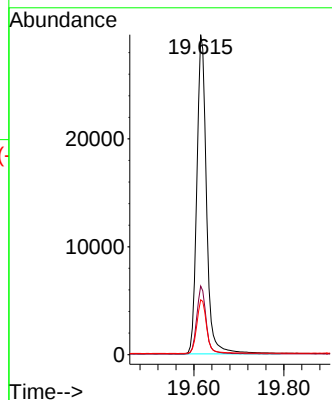
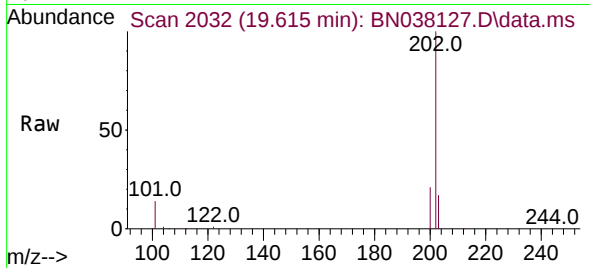




#30
Pyrene
Concen: 0.462 ng
RT: 19.615 min Scan# 2032
Delta R.T. 0.005 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

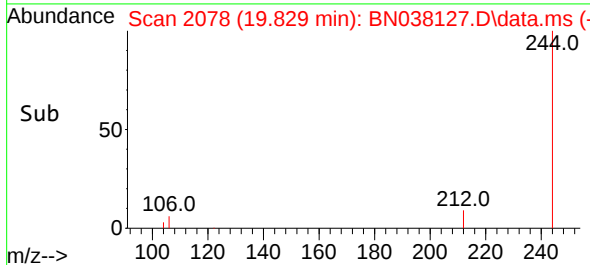
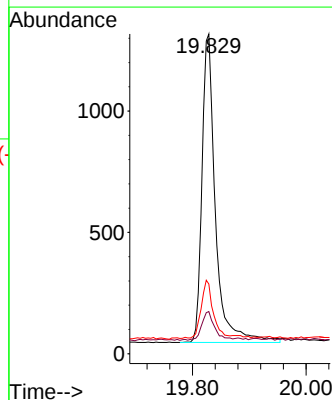
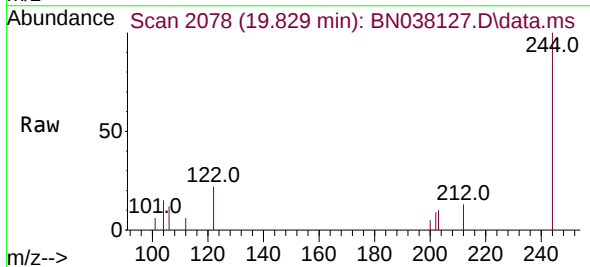
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

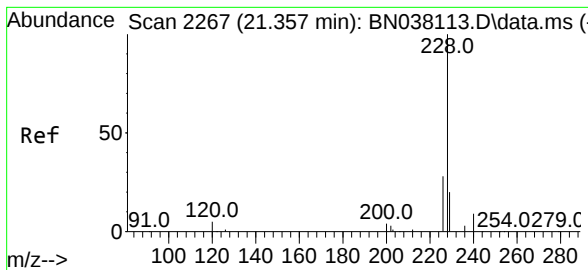
Tgt Ion:202 Resp: 44227
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 17.1 14.2 21.2



#31
Terphenyl-d14
Concen: 0.045 ng
RT: 19.829 min Scan# 2078
Delta R.T. 0.009 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

Tgt Ion:244 Resp: 2085
Ion Ratio Lower Upper
244 100
212 13.2 7.8 11.6#
122 21.8 15.2 22.8

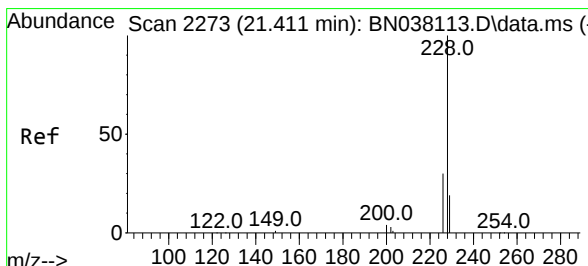
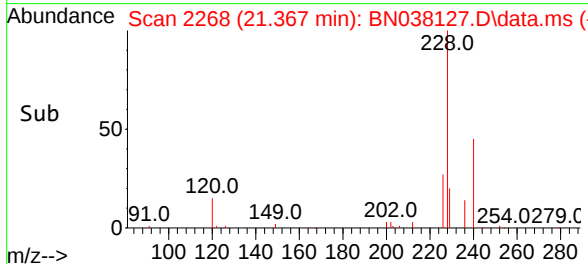
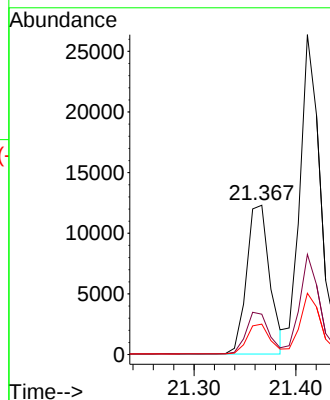
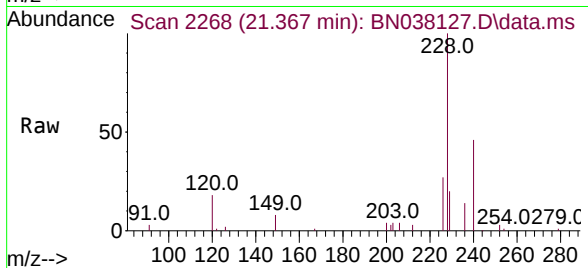




#32
Benzo(a)anthracene
Concen: 0.257 ng
RT: 21.367 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

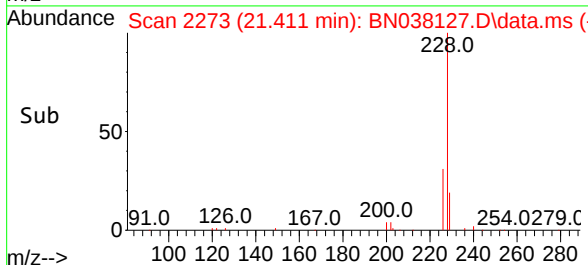
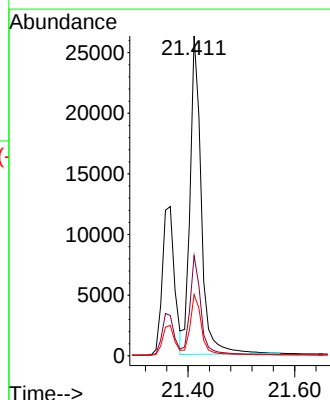
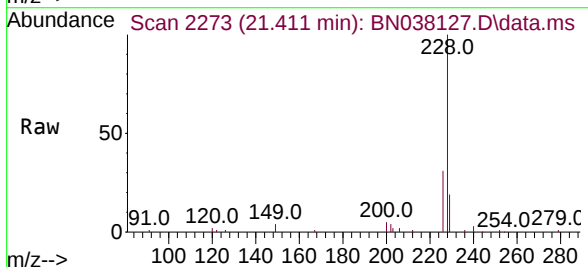
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

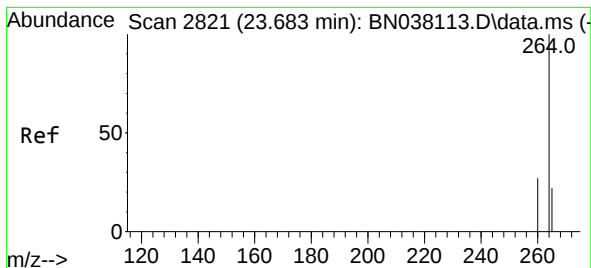
Tgt Ion:228 Resp: 19436
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.4
229 20.4 15.8 23.8



#33
Chrysene
Concen: 0.466 ng
RT: 21.411 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN038127.D
Acq: 30 Oct 2025 17:48

Tgt Ion:228 Resp: 38245
Ion Ratio Lower Upper
228 100
226 31.3 24.3 36.5
229 19.2 15.7 23.5





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.692 min Scan# 2821

Delta R.T. 0.012 min

Lab File: BN038127.D

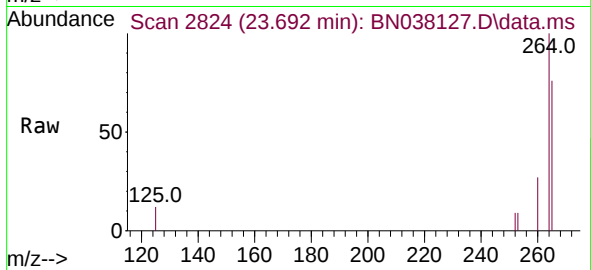
Acq: 30 Oct 2025 17:48

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL



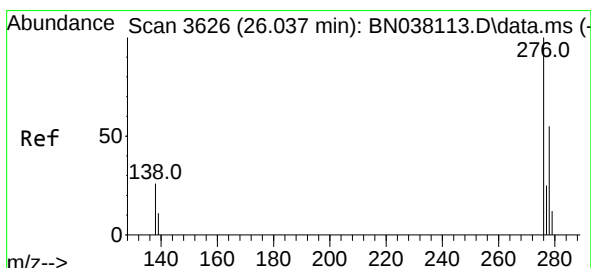
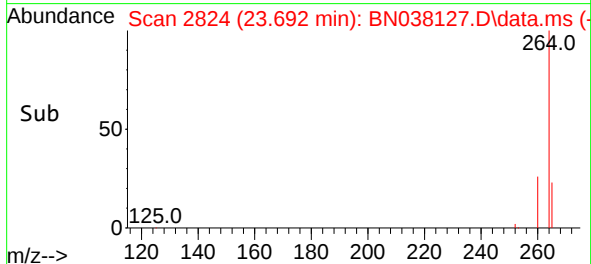
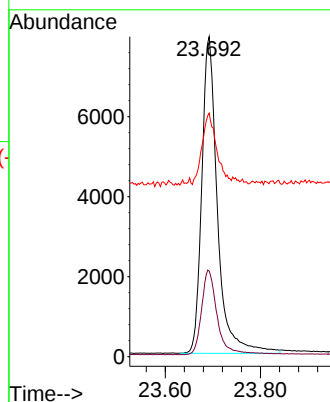
Tgt Ion:264 Resp: 18032

Ion Ratio Lower Upper

264 100

260 26.7 21.8 32.8

265 76.1 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.169 ng

RT: 26.054 min Scan# 3632

Delta R.T. 0.021 min

Lab File: BN038127.D

Acq: 30 Oct 2025 17:48

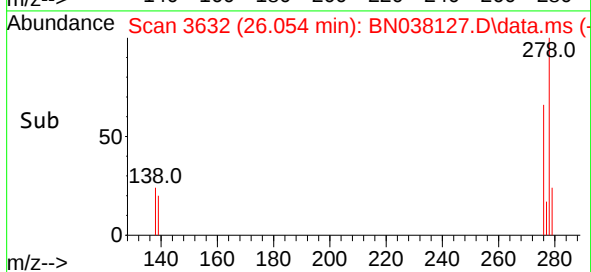
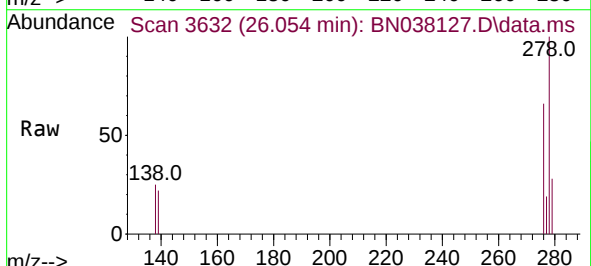
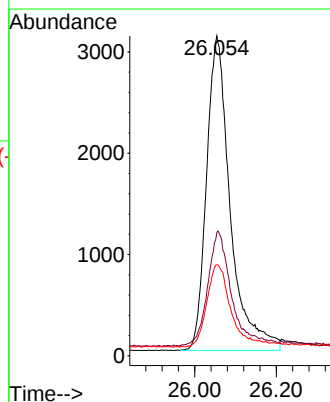
Tgt Ion:276 Resp: 12519

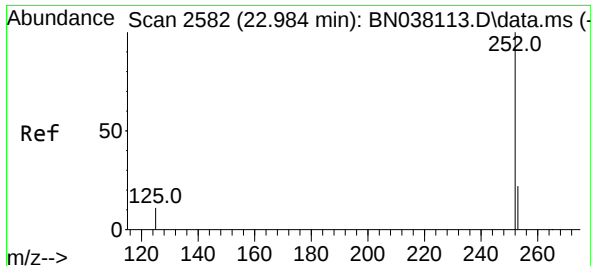
Ion Ratio Lower Upper

276 100

138 35.7 21.4 32.0#

277 26.1 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.208 ng

RT: 22.990 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038127.D

Acq: 30 Oct 2025 17:48

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

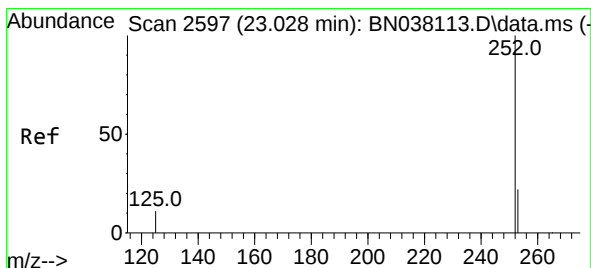
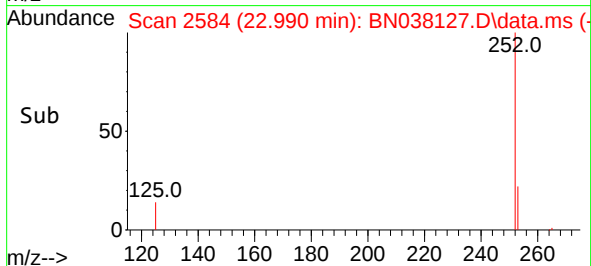
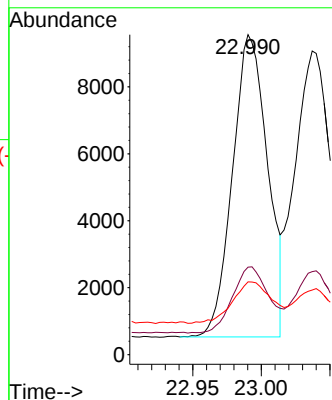
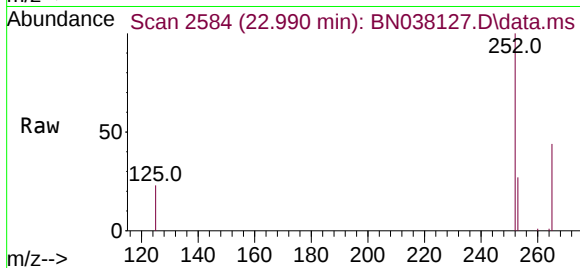
Tgt Ion:252 Resp: 16038

Ion Ratio Lower Upper

252 100

253 27.3 20.9 31.3

125 22.7 14.1 21.1#



#38

Benzo(k)fluoranthene

Concen: 0.219 ng

RT: 23.037 min Scan# 2600

Delta R.T. 0.009 min

Lab File: BN038127.D

Acq: 30 Oct 2025 17:48

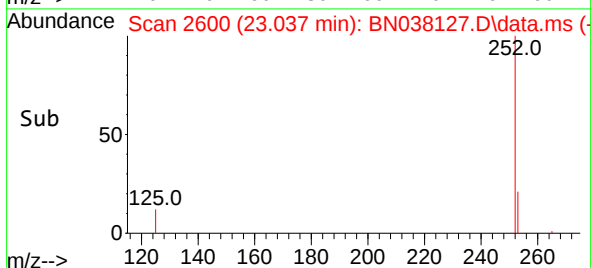
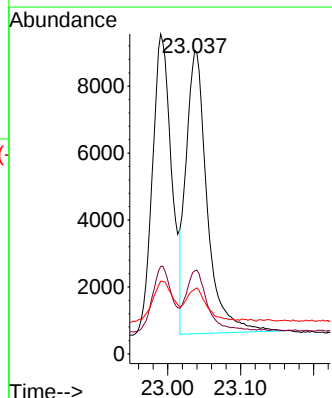
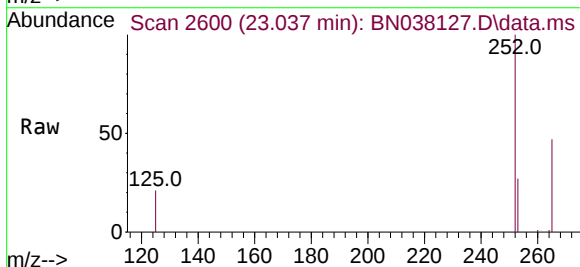
Tgt Ion:252 Resp: 17020

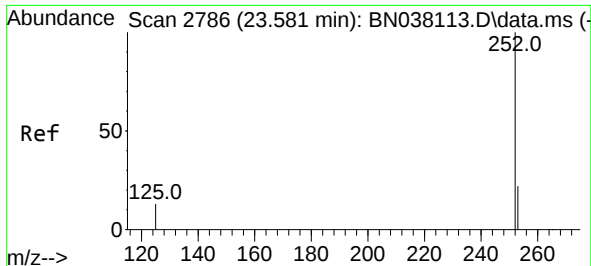
Ion Ratio Lower Upper

252 100

253 27.3 21.2 31.8

125 21.3 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.164 ng

RT: 23.593 min Scan# 21

Delta R.T. 0.015 min

Lab File: BN038127.D

Acq: 30 Oct 2025 17:48

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

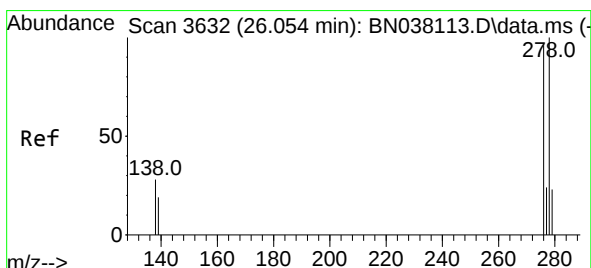
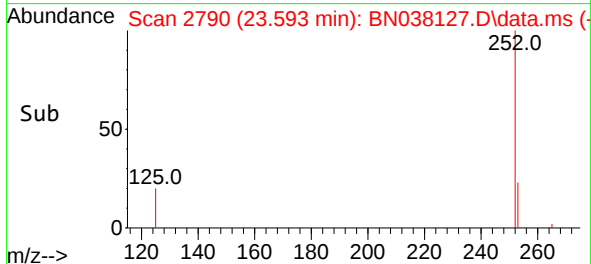
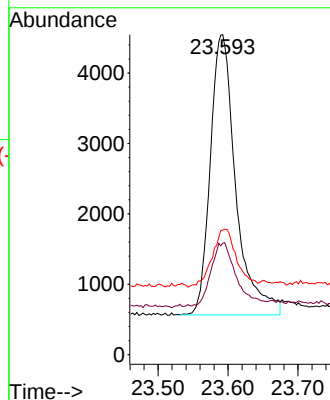
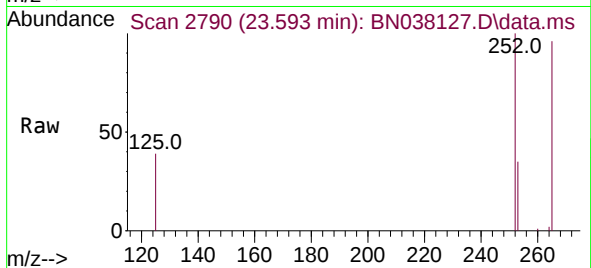
Tgt Ion:252 Resp: 10103

Ion Ratio Lower Upper

252 100

253 34.8 23.1 34.7#

125 38.9 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 26.066 min Scan# 3636

Delta R.T. 0.018 min

Lab File: BN038127.D

Acq: 30 Oct 2025 17:48

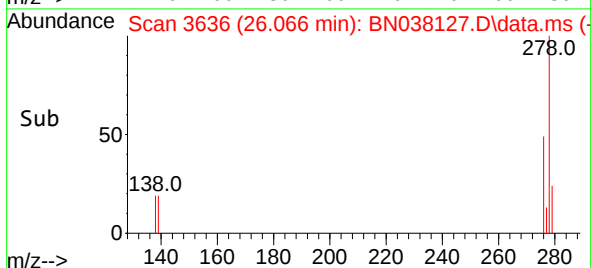
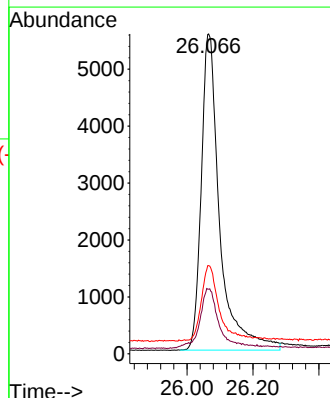
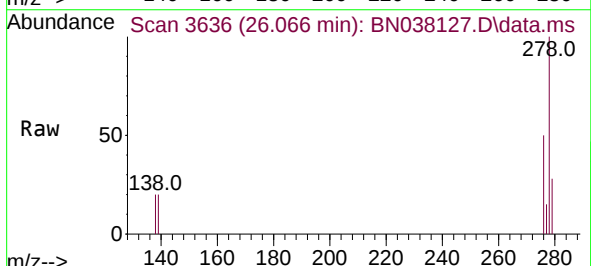
Tgt Ion:278 Resp: 21455

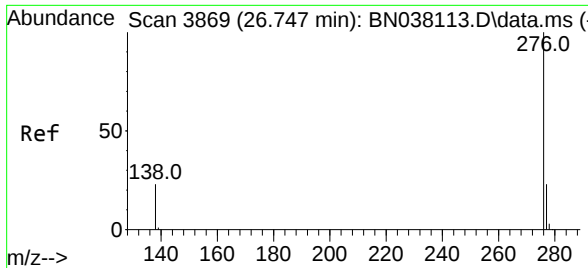
Ion Ratio Lower Upper

278 100

139 20.2 17.6 26.4

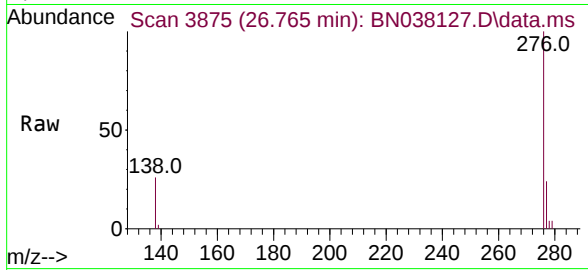
279 27.6 22.6 33.8





#41
 Benzo(g,h,i)perylene
 Concen: 0.355 ng
 RT: 26.765 min Scan# 38
 Delta R.T. 0.015 min
 Lab File: BN038127.D
 Acq: 30 Oct 2025 17:48

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



Tgt Ion:276 Resp: 23113

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.7	29.5
138	25.8	20.2	30.4

