

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037353.D
 Acq On : 20 Jun 2025 16:51
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 20 23:26:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

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

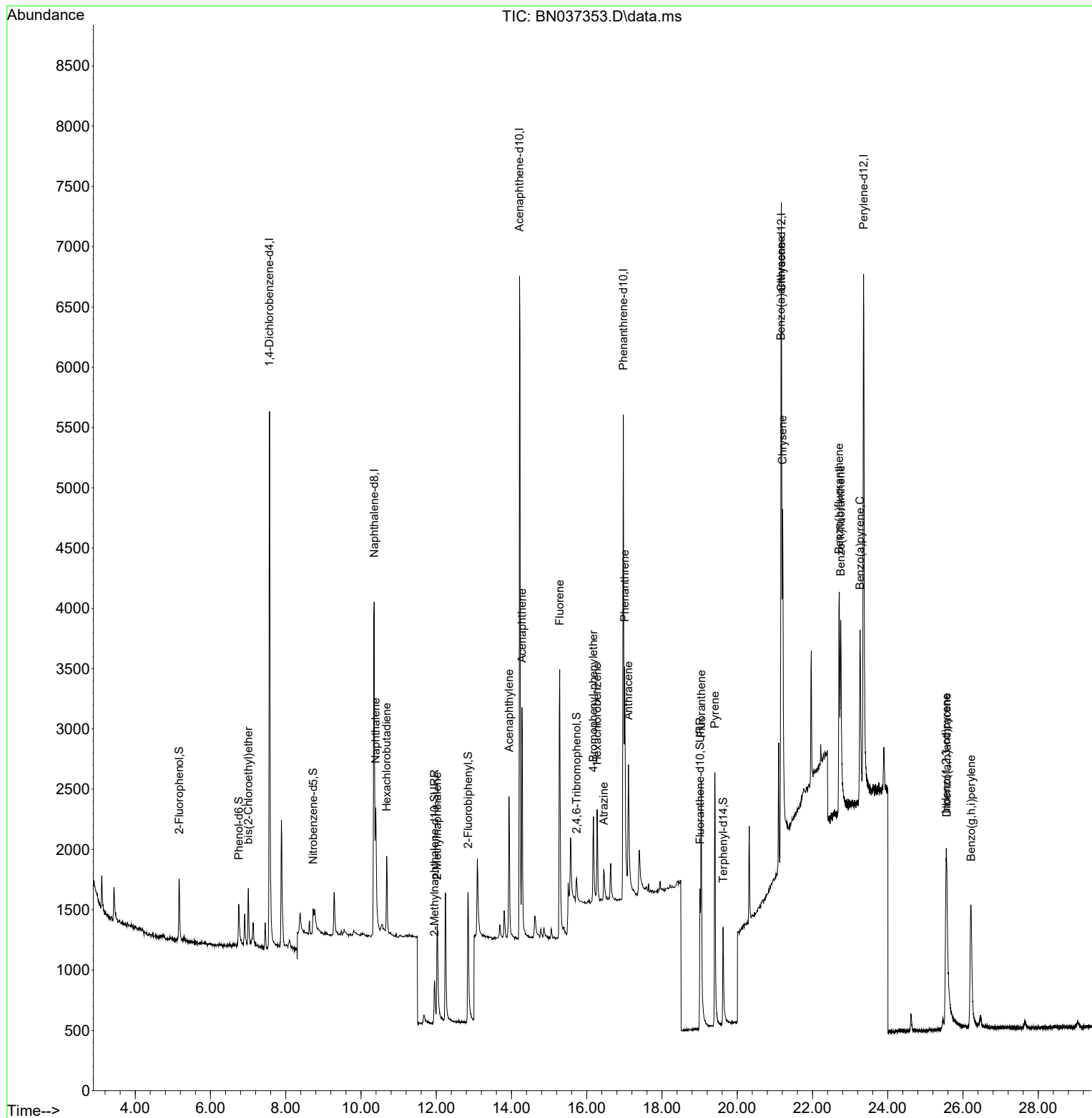
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2463	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	5110	0.400	ng	# 0.01
13) Acenaphthene-d10	14.213	164	3596	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	7299	0.400	ng	0.00
29) Chrysene-d12	21.171	240	6135	0.400	ng	0.00
35) Perylene-d12	23.357	264	6598	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	526	0.117	ng	0.00
5) Phenol-d6	6.752	99	481	0.108	ng	0.00
8) Nitrobenzene-d5	8.728	82	325	0.077	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	791	0.096	ng	0.01
14) 2,4,6-Tribromophenol	15.730	330	197	0.077	ng	0.01
15) 2-Fluorobiphenyl	12.848	172	1533	0.097	ng	0.01
27) Fluoranthene-d10	19.012	212	2001	0.088	ng	0.00
31) Terphenyl-d14	19.625	244	1456	0.104	ng	0.00
Target Compounds						
						Qvalue
6) bis(2-Chloroethyl)ether	7.004	93	443	0.114	ng	98
9) Naphthalene	10.394	128	1349	0.102	ng	98
10) Hexachlorobutadiene	10.682	225	578	0.089	ng	# 99
12) 2-Methylnaphthalene	12.026	142	898	0.096	ng	96
16) Acenaphthylene	13.935	152	1480	0.098	ng	98
17) Acenaphthene	14.277	154	996	0.100	ng	99
18) Fluorene	15.282	166	1348	0.095	ng	99
21) 4-Bromophenyl-phenylether	16.177	248	482	0.081	ng	# 95
22) Hexachlorobenzene	16.276	284	588	0.095	ng	98
23) Atrazine	16.450	200	404	0.087	ng	92
25) Phenanthrene	17.009	178	2021	0.098	ng	99
26) Anthracene	17.108	178	1812	0.094	ng	98
28) Fluoranthene	19.045	202	2576	0.091	ng	# 99
30) Pyrene	19.407	202	2647	0.113	ng	99
32) Benzo(a)anthracene	21.162	228	2007	0.101	ng	98
33) Chrysene	21.206	228	2687	0.107	ng	98
36) Indeno(1,2,3-cd)pyrene	25.550	276	2871	0.103	ng	# 98
37) Benzo(b)fluoranthene	22.708	252	2355	0.101	ng	# 75
38) Benzo(k)fluoranthene	22.749	252	2600	0.102	ng	# 79
39) Benzo(a)pyrene	23.263	252	2178	0.102	ng	# 60
40) Dibenzo(a,h)anthracene	25.567	278	1944	0.087	ng	# 78
41) Benzo(g,h,i)perylene	26.213	276	2673	0.104	ng	# 92

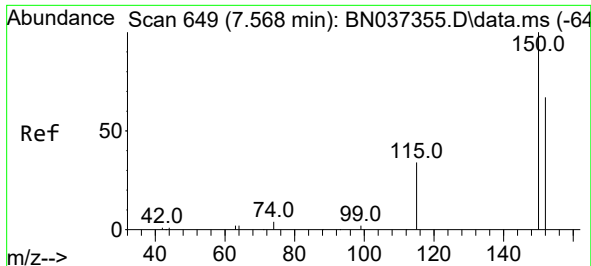
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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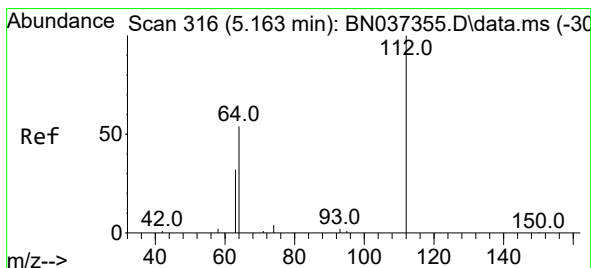
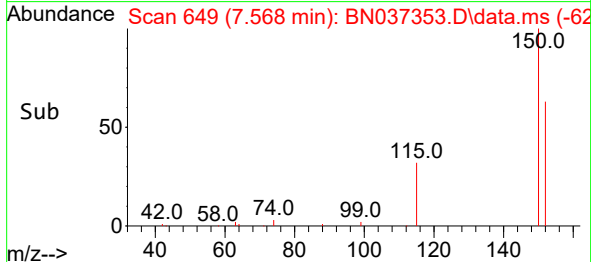
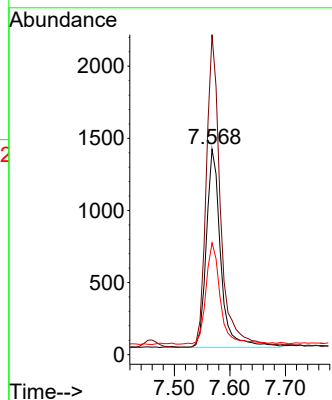
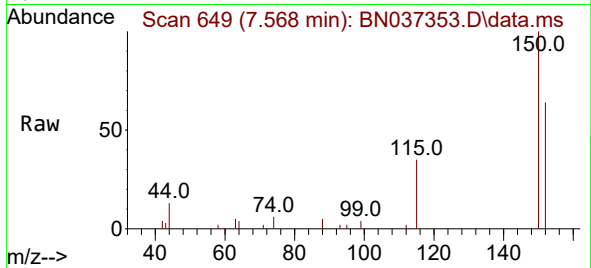




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

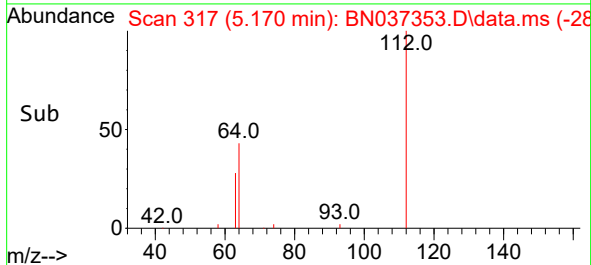
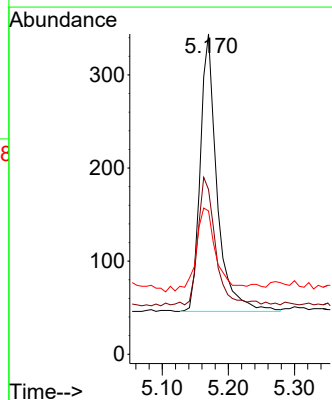
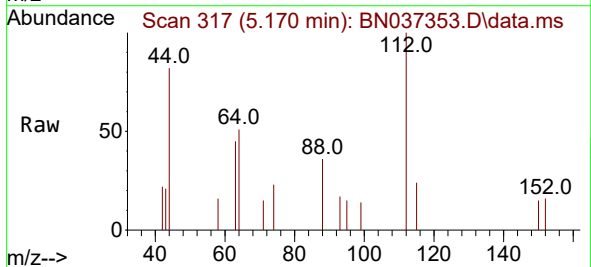
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

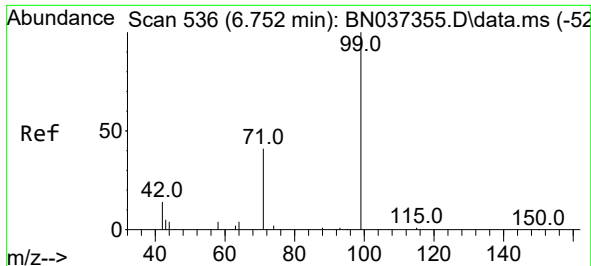
Tgt Ion:152 Resp: 2463
Ion Ratio Lower Upper
152 100
150 155.8 112.7 169.1
115 54.4 45.9 68.9



#4
2-Fluorophenol
Concen: 0.117 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:112 Resp: 526
Ion Ratio Lower Upper
112 100
64 51.3 38.7 58.1
63 37.1 26.4 39.6

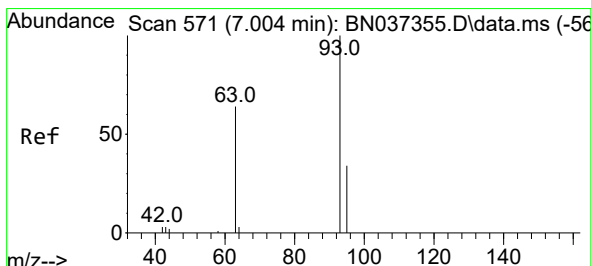
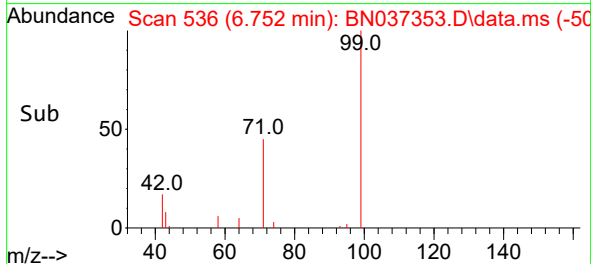
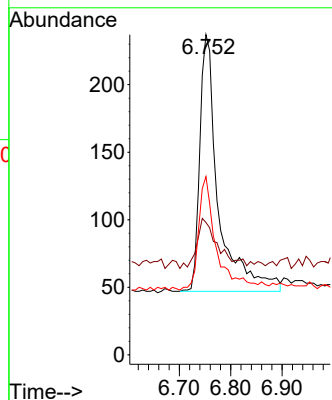
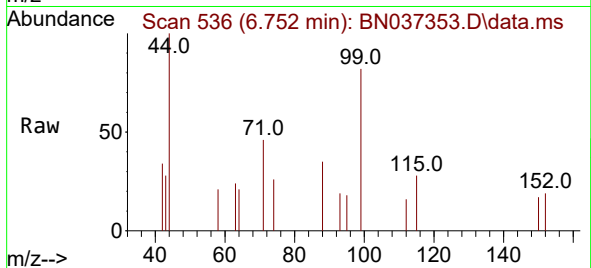




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

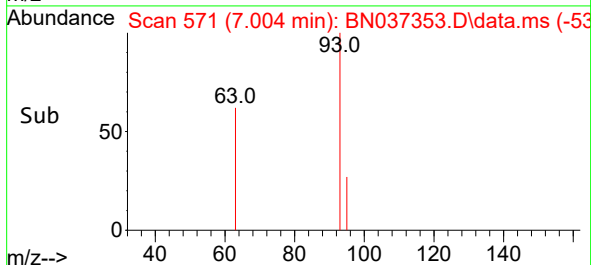
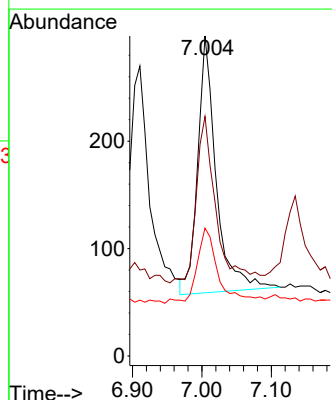
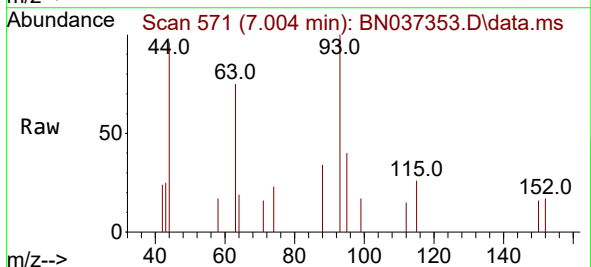
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

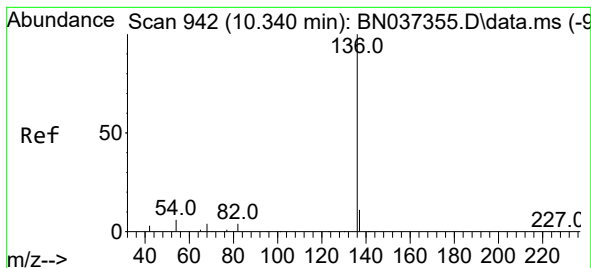
Tgt Ion: 99 Resp: 481
Ion Ratio Lower Upper
99 100
42 22.0 19.8 29.8
71 41.6 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 0.114 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion: 93 Resp: 443
Ion Ratio Lower Upper
93 100
63 68.4 53.2 79.8
95 34.5 27.3 40.9





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 94

Delta R.T. 0.011 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:136 Resp: 5110

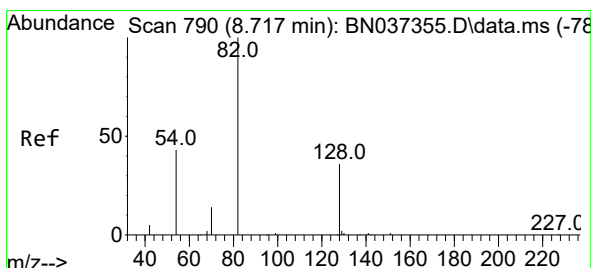
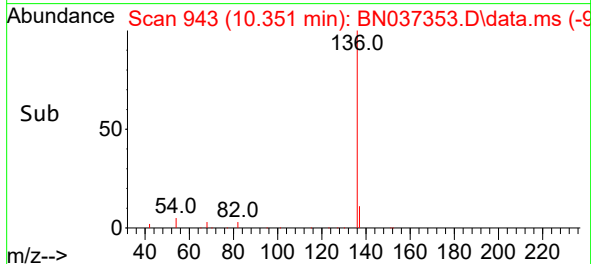
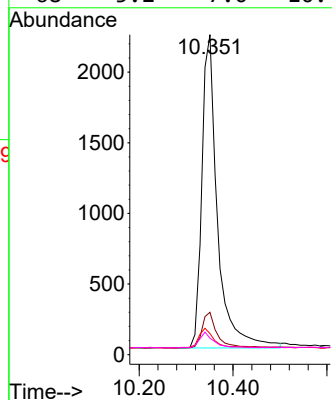
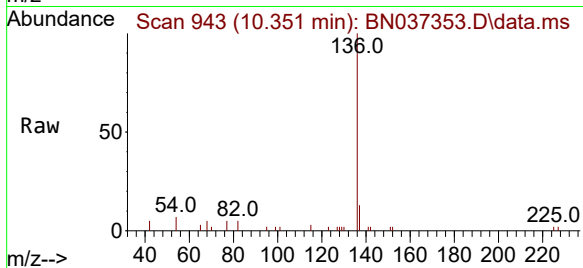
Ion Ratio Lower Upper

136 100

137 13.2 12.2 18.2

54 6.6 8.8 13.2#

68 5.2 7.0 10.4#



#8

Nitrobenzene-d5

Concen: 0.077 ng

RT: 8.728 min Scan# 791

Delta R.T. 0.011 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

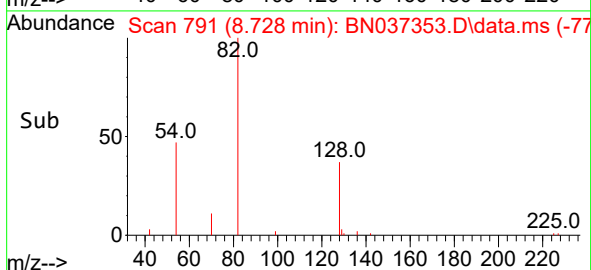
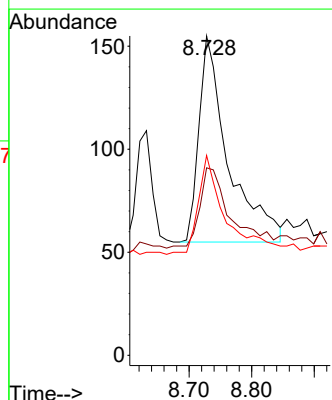
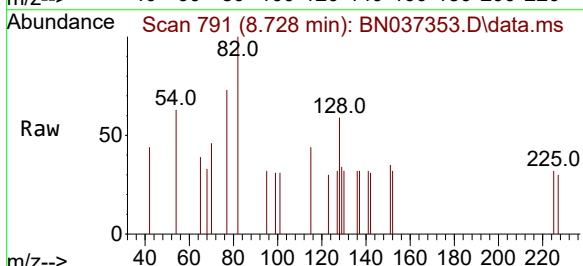
Tgt Ion: 82 Resp: 325

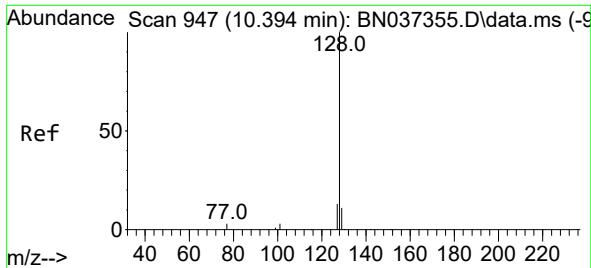
Ion Ratio Lower Upper

82 100

128 58.7 42.5 63.7

54 62.6 43.2 64.8

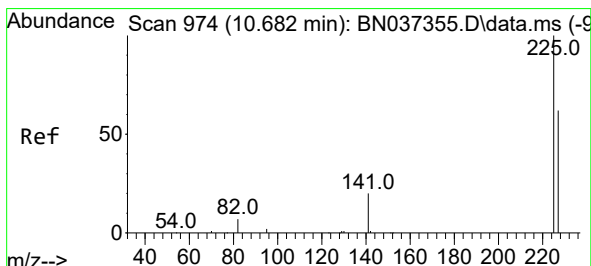
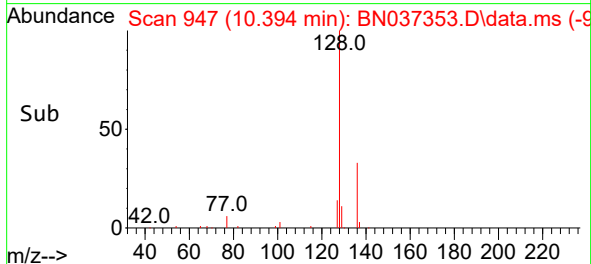
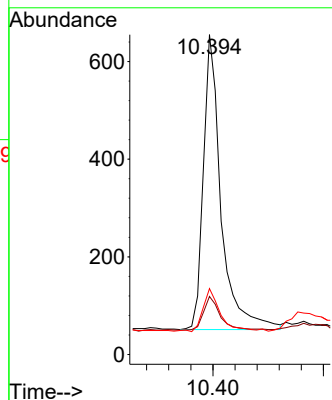
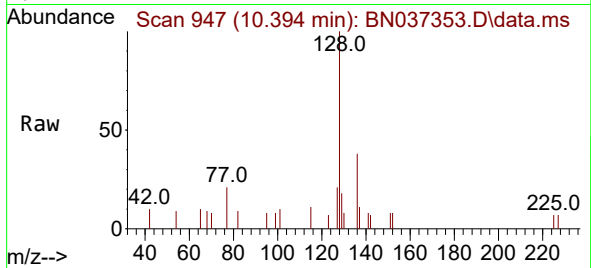




#9
Naphthalene
Concen: 0.102 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

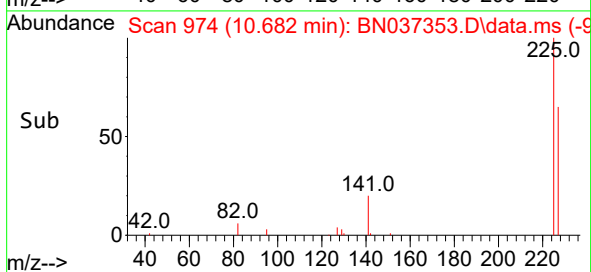
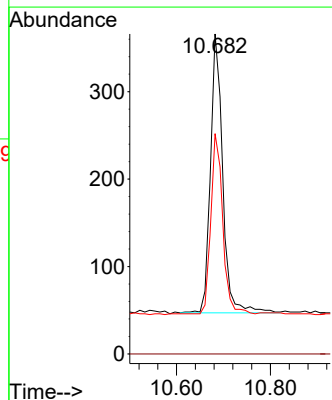
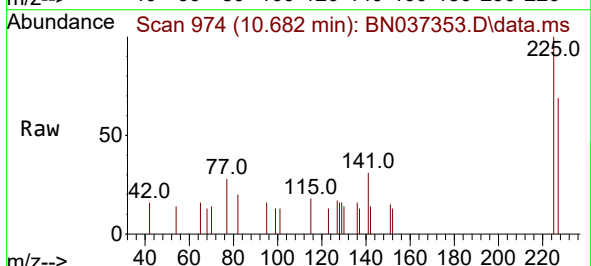
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

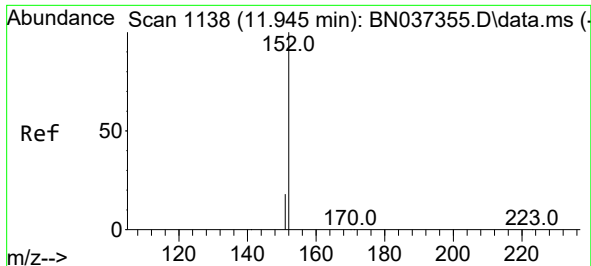
Tgt Ion:	128	Resp:	1349
Ion Ratio	Lower	Upper	
128	100		
129	18.2	14.0	21.0
127	20.6	15.8	23.8



#10
Hexachlorobutadiene
Concen: 0.089 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:	225	Resp:	578
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	62.1	50.3	75.5

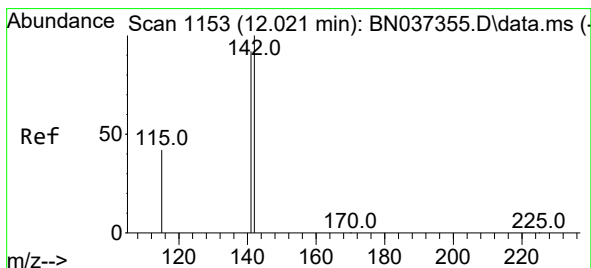
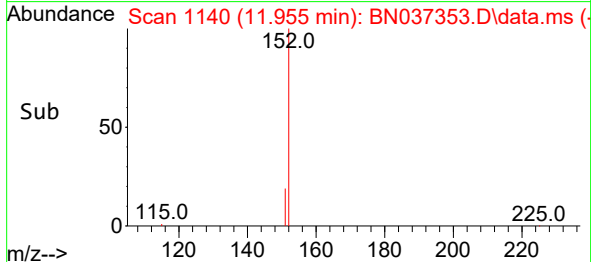
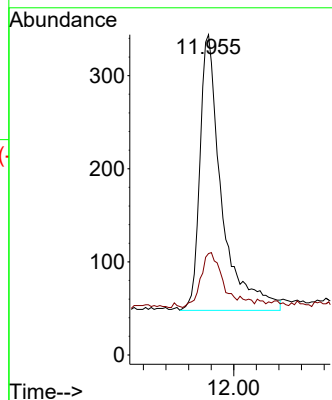
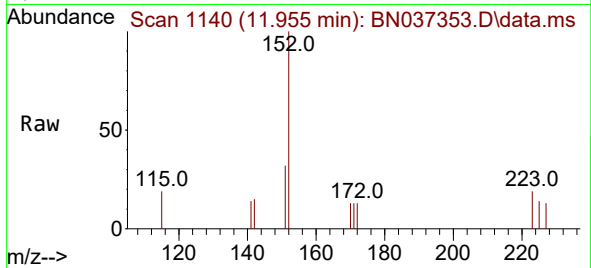




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.955 min Scan# 1138
Delta R.T. 0.010 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

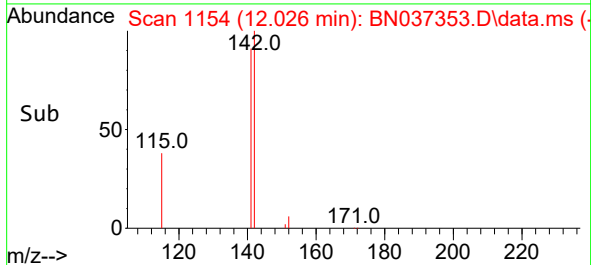
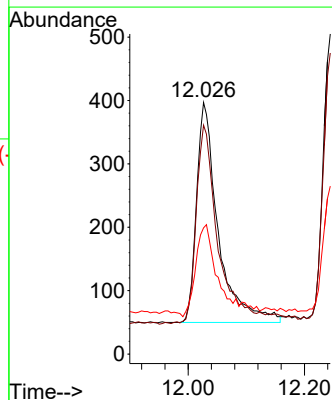
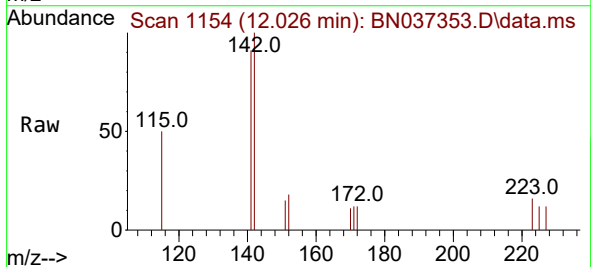
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

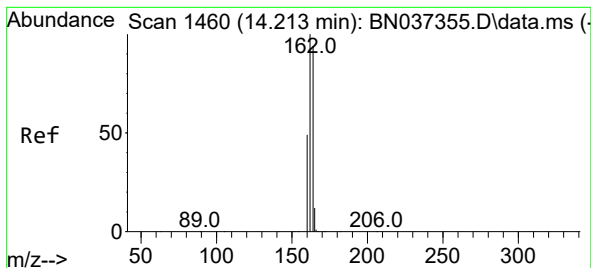
Tgt Ion:152 Resp: 791
Ion Ratio Lower Upper
152 100
151 19.5 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:142 Resp: 898
Ion Ratio Lower Upper
142 100
141 90.9 70.2 105.2
115 50.1 43.0 64.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

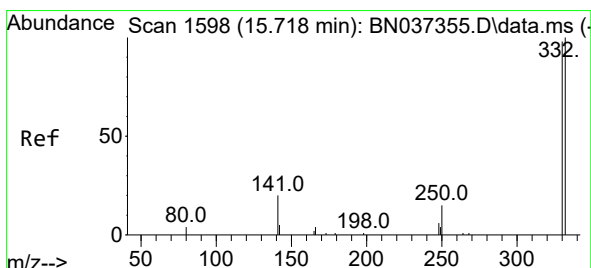
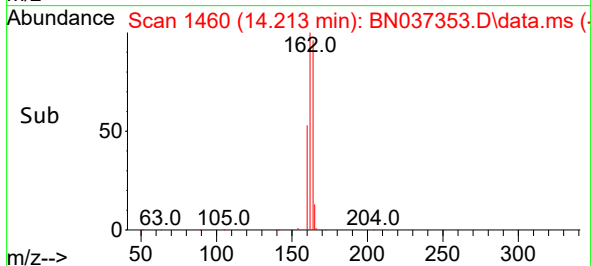
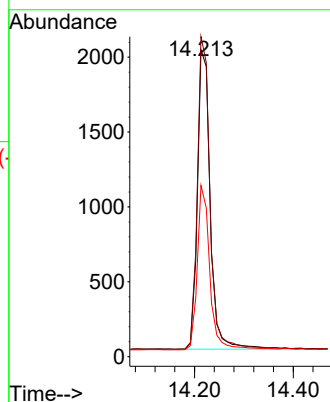
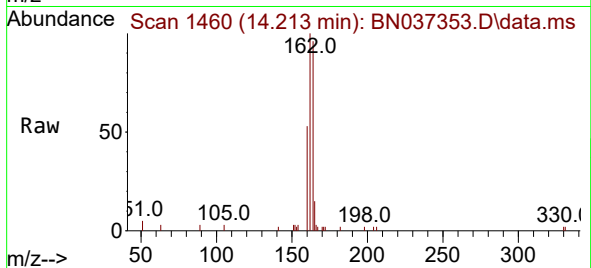
Tgt Ion:164 Resp: 3596

Ion Ratio Lower Upper

164 100

162 104.3 81.5 122.3

160 55.8 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 0.077 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.012 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

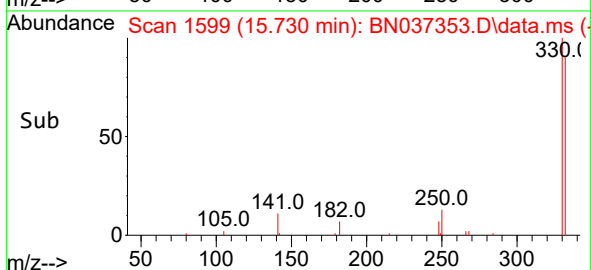
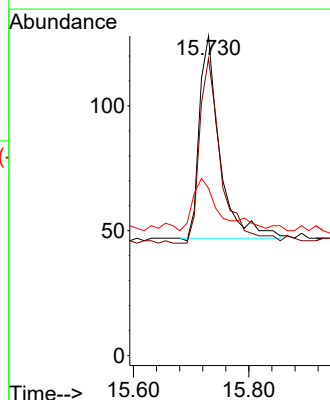
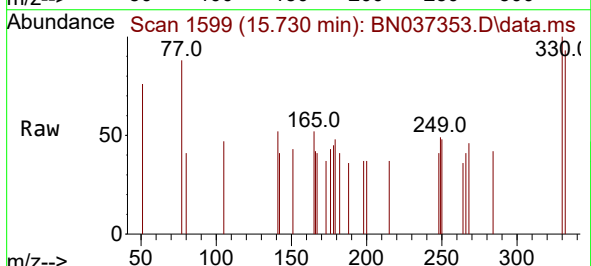
Tgt Ion:330 Resp: 197

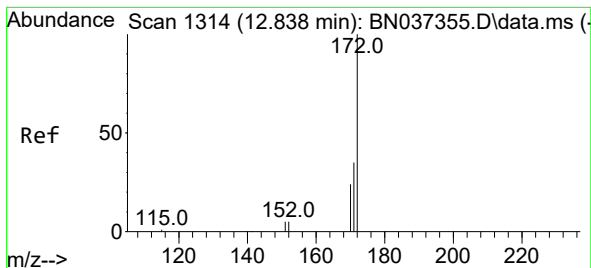
Ion Ratio Lower Upper

330 100

332 97.5 78.4 117.6

141 33.5 24.4 36.6





#15

2-Fluorobiphenyl

Concen: 0.097 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.010 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

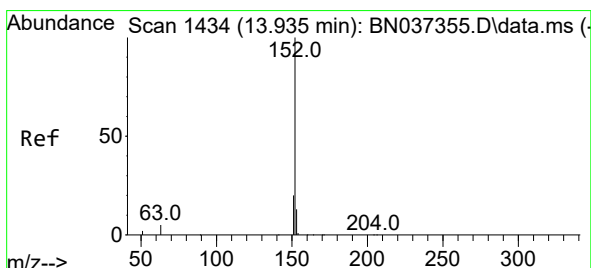
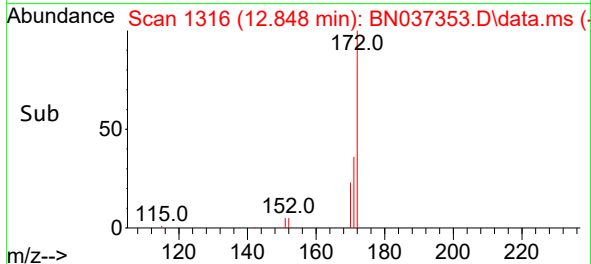
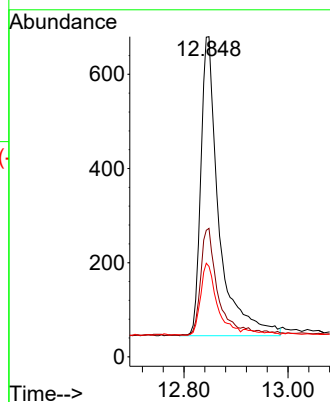
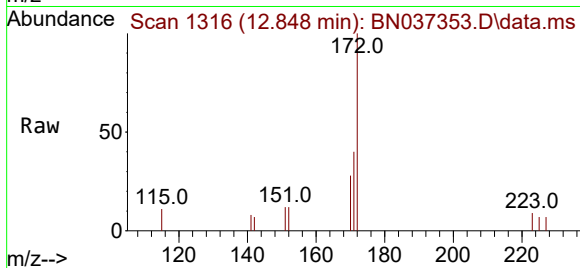
Tgt Ion:172 Resp: 1533

Ion Ratio Lower Upper

172 100

171 40.1 30.8 46.2

170 28.2 21.9 32.9



#16

Acenaphthylene

Concen: 0.098 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

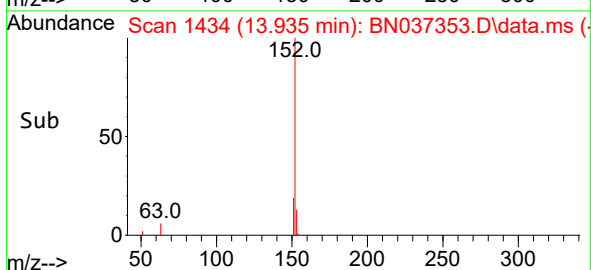
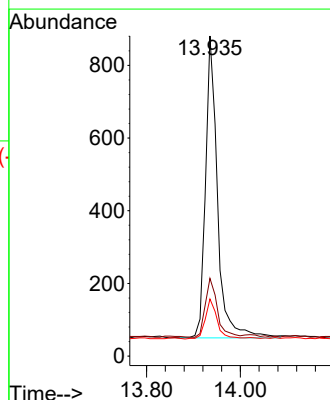
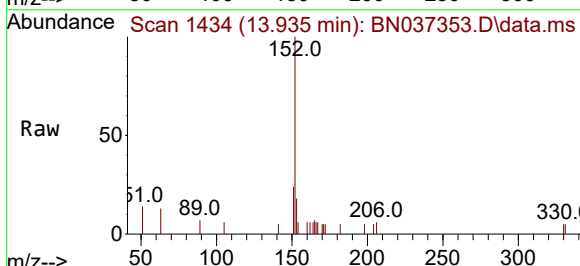
Tgt Ion:152 Resp: 1480

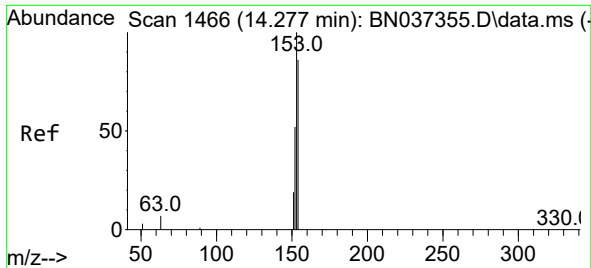
Ion Ratio Lower Upper

152 100

151 19.5 16.6 24.8

153 13.2 10.2 15.2

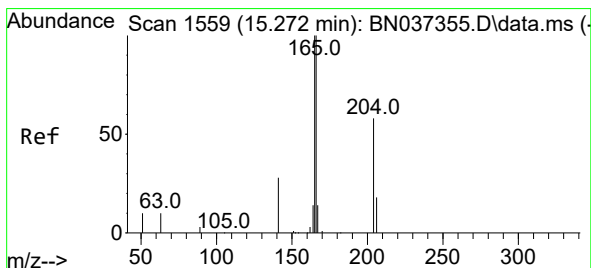
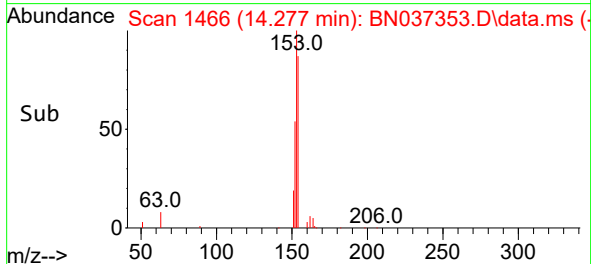
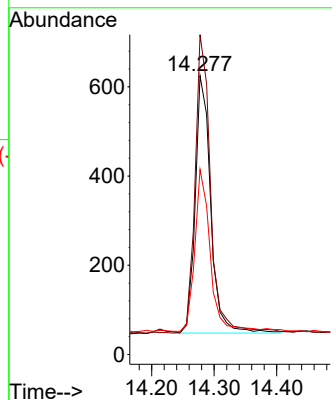
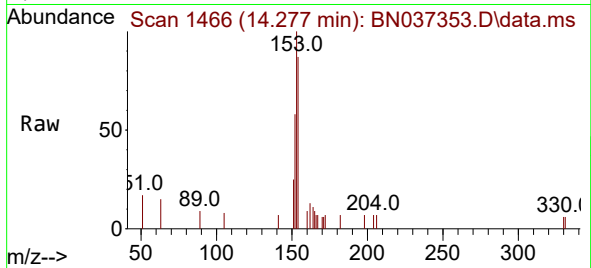




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

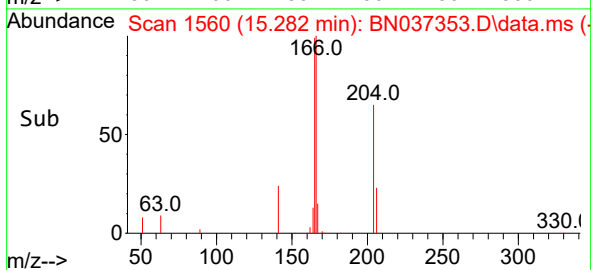
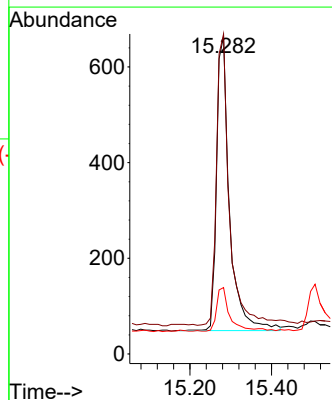
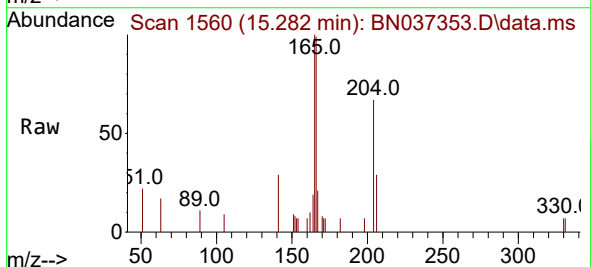
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

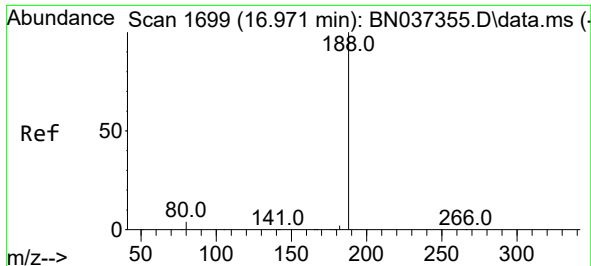
Tgt Ion:154 Resp: 996
Ion Ratio Lower Upper
154 100
153 116.2 93.1 139.7
152 62.9 48.6 73.0



#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:166 Resp: 1348
Ion Ratio Lower Upper
166 100
165 99.0 79.5 119.3
167 15.1 10.7 16.1

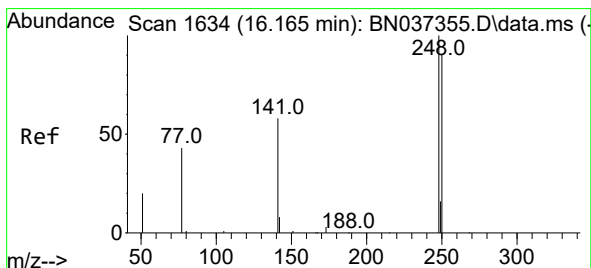
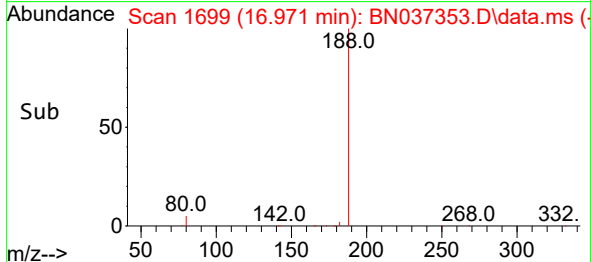
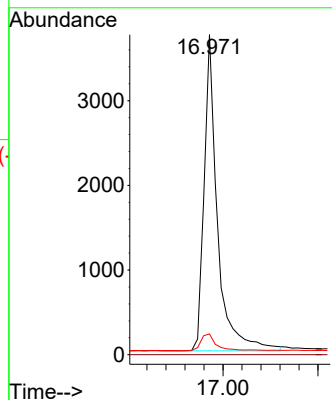
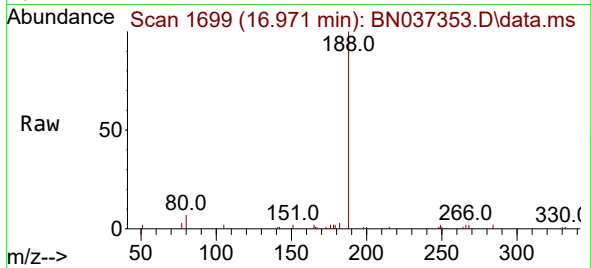




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

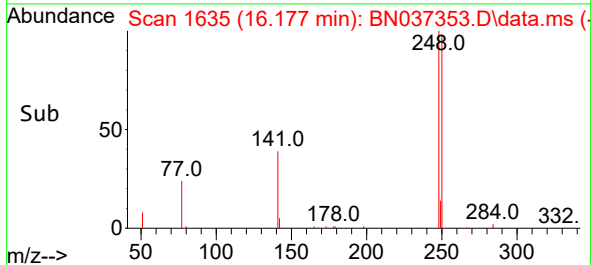
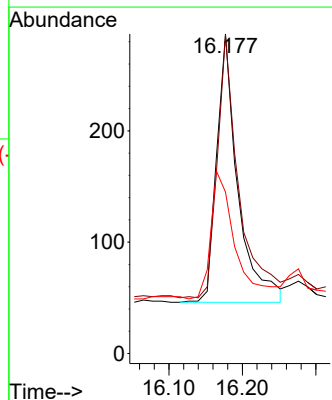
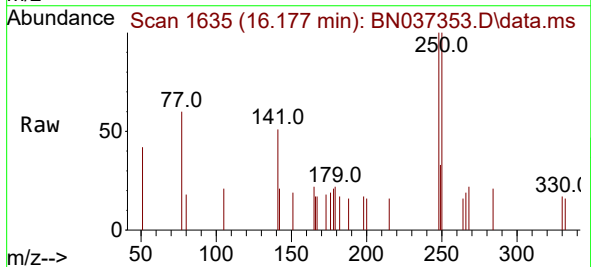
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

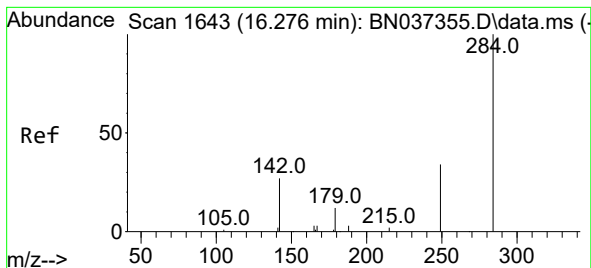
Tgt Ion:188 Resp: 7299
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.5 6.2 9.2



#21
4-Bromophenyl-phenylether
Concen: 0.081 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:248 Resp: 482
Ion Ratio Lower Upper
248 100
250 99.7 80.4 120.6
141 50.5 33.3 49.9#





#22

Hexachlorobenzene

Concen: 0.095 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

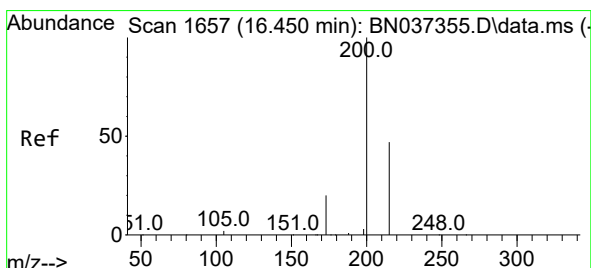
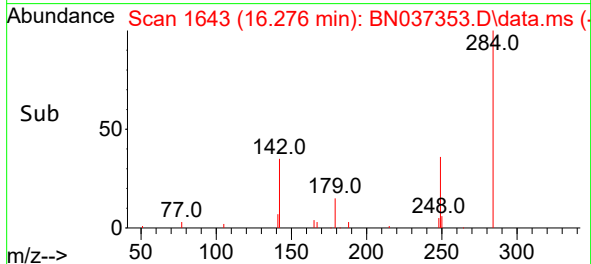
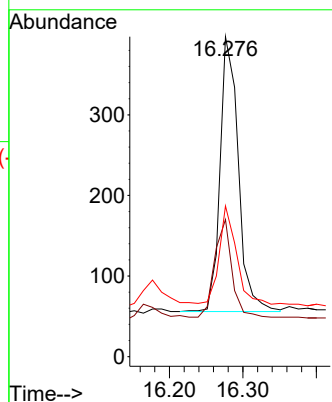
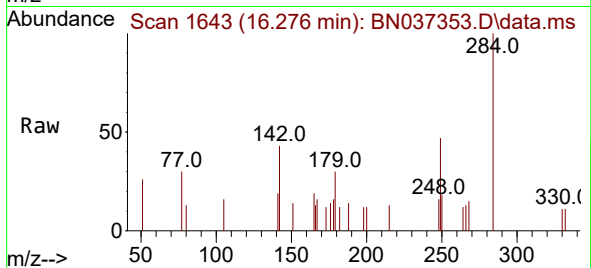
Tgt Ion:284 Resp: 588

Ion Ratio Lower Upper

284 100

142 35.9 27.0 40.6

249 36.7 28.8 43.2



#23

Atrazine

Concen: 0.087 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

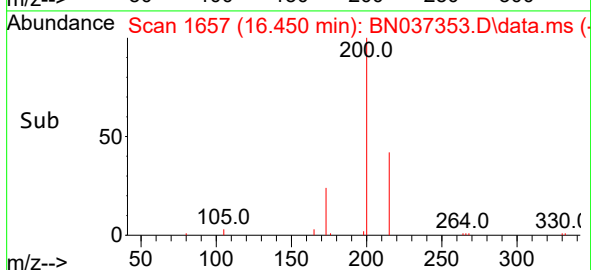
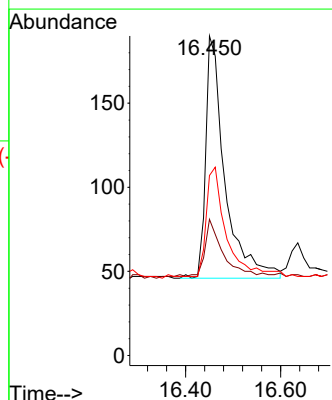
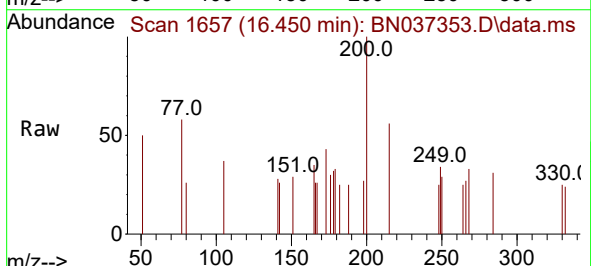
Tgt Ion:200 Resp: 404

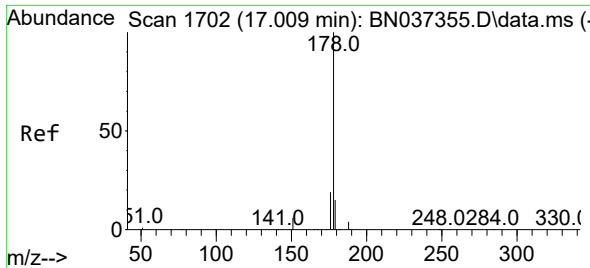
Ion Ratio Lower Upper

200 100

173 42.6 29.2 43.8

215 56.3 48.8 73.2

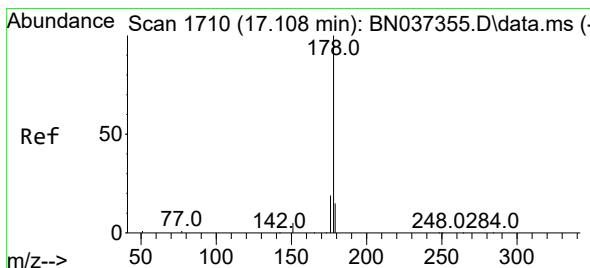
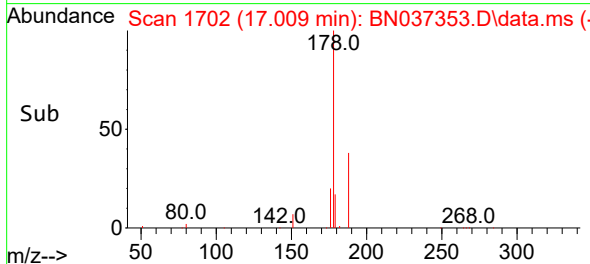
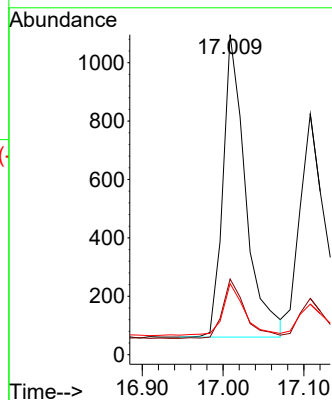
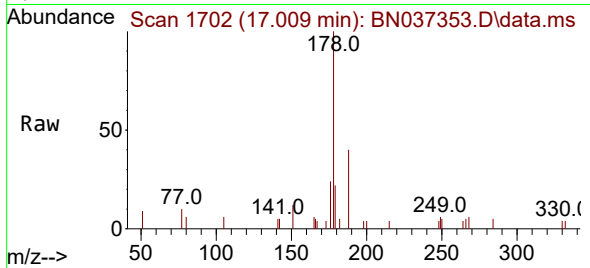




#25
Phenanthrene
Concen: 0.098 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

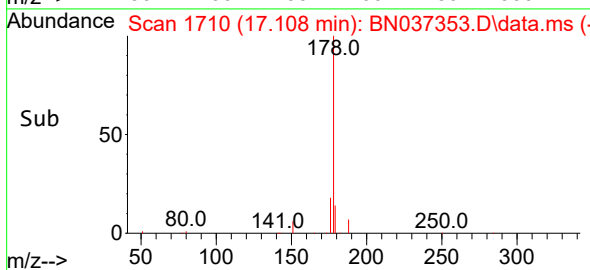
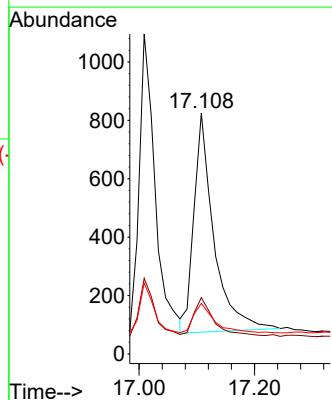
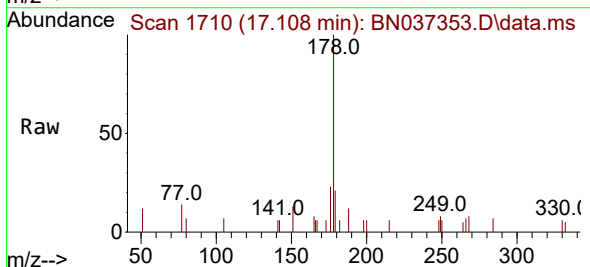
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

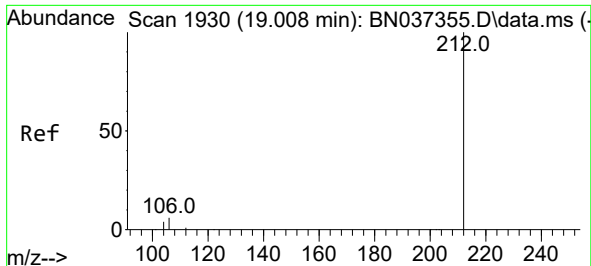
Tgt Ion:178 Resp: 2021
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 16.8 12.9 19.3



#26
Anthracene
Concen: 0.094 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:178 Resp: 1812
Ion Ratio Lower Upper
178 100
176 18.8 14.7 22.1
179 14.8 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.088 ng

RT: 19.012 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

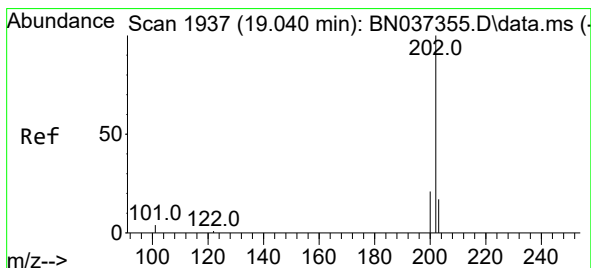
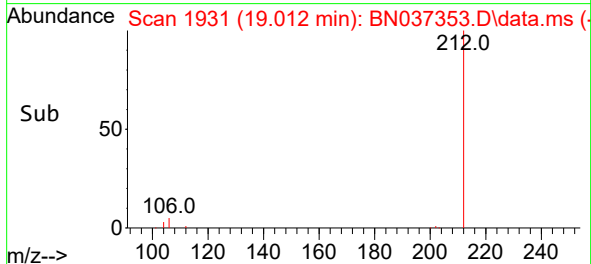
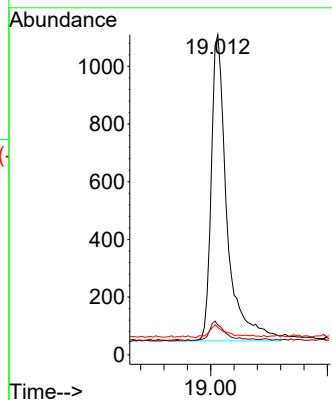
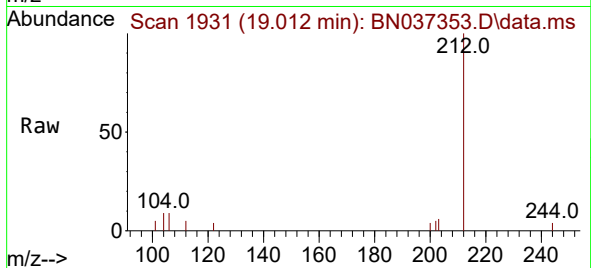
Tgt Ion:212 Resp: 2001

Ion Ratio Lower Upper

212 100

106 5.8 3.0 4.4#

104 4.1 2.0 3.0#



#28

Fluoranthene

Concen: 0.091 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

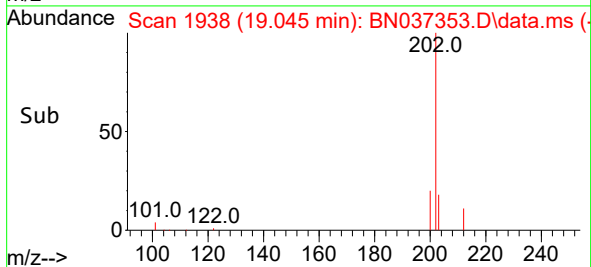
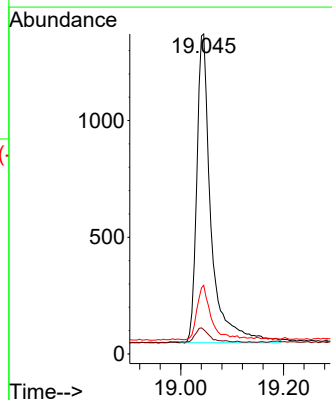
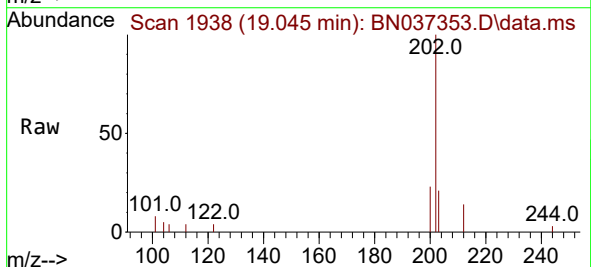
Tgt Ion:202 Resp: 2576

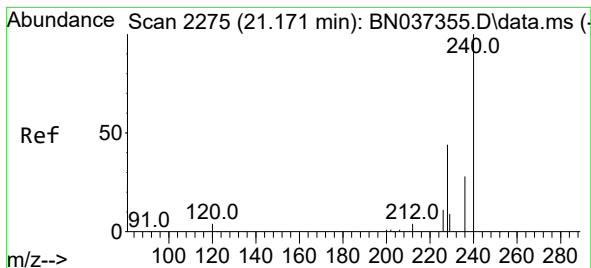
Ion Ratio Lower Upper

202 100

101 4.7 3.0 4.6#

203 17.5 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

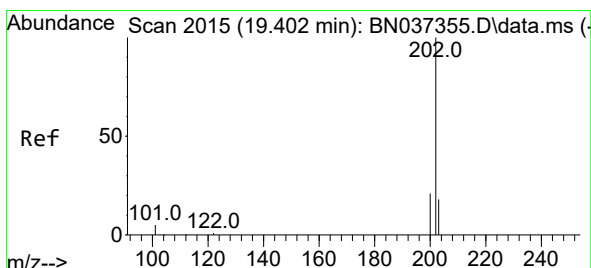
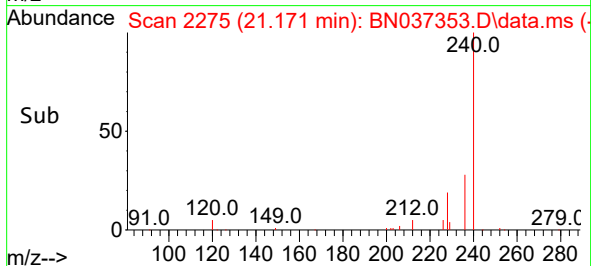
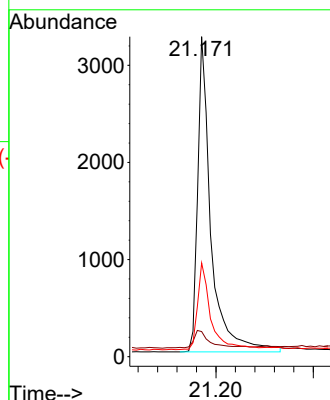
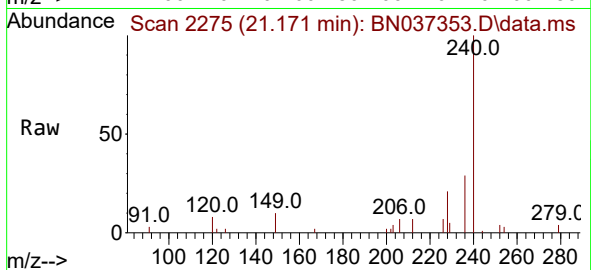
Tgt Ion:240 Resp: 6135

Ion Ratio Lower Upper

240 100

120 7.9 7.5 11.3

236 29.3 24.9 37.3



#30

Pyrene

Concen: 0.113 ng

RT: 19.407 min Scan# 2016

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

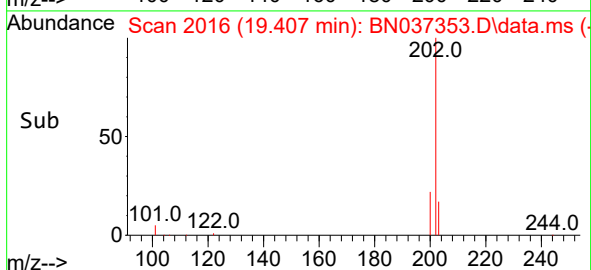
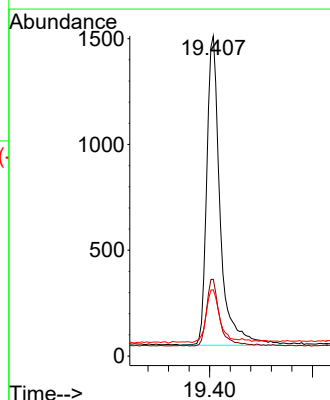
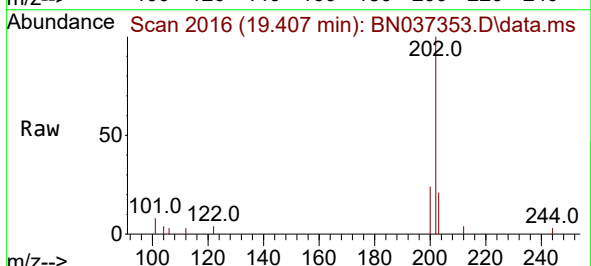
Tgt Ion:202 Resp: 2647

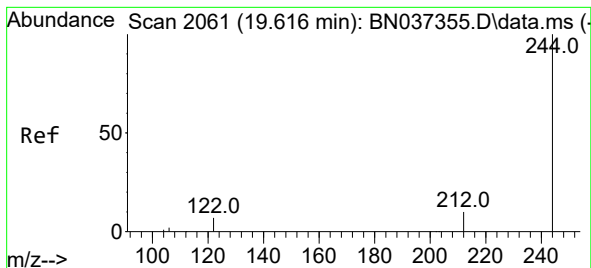
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 17.4 14.5 21.7





#31

Terphenyl-d14

Concen: 0.104 ng

RT: 19.625 min Scan# 2063

Delta R.T. 0.009 min

Lab File: BN037353.D

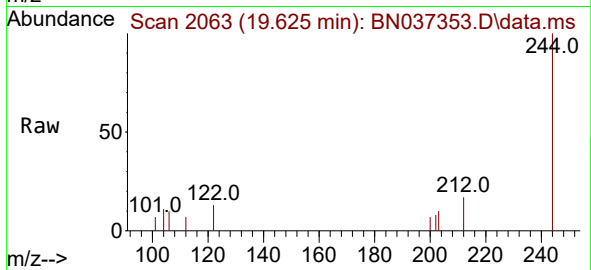
Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



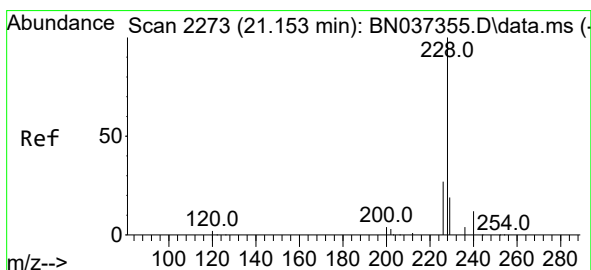
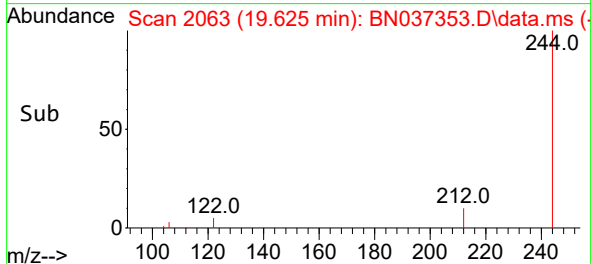
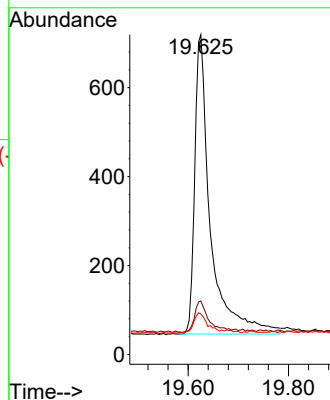
Tgt Ion:244 Resp: 1456

Ion Ratio Lower Upper

244 100

212 16.7 11.1 16.7#

122 12.7 7.2 10.8#



#32

Benzo(a)anthracene

Concen: 0.101 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.009 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

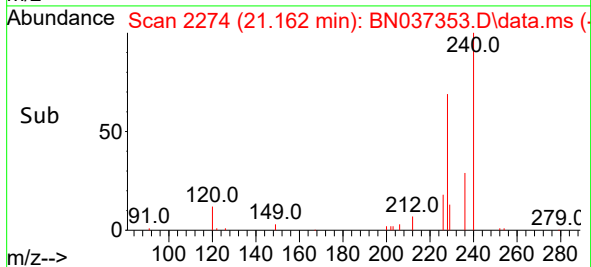
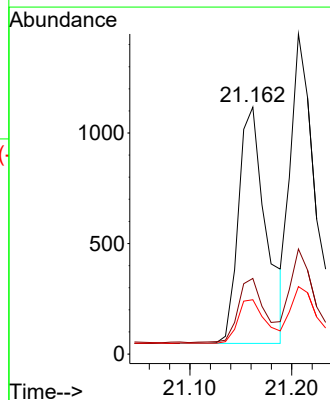
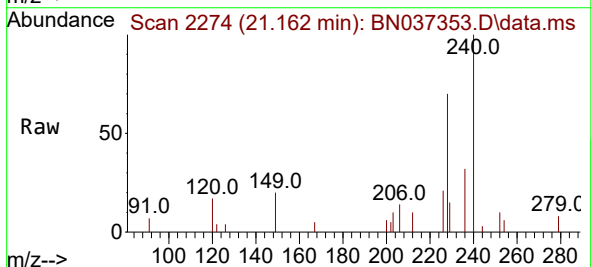
Tgt Ion:228 Resp: 2007

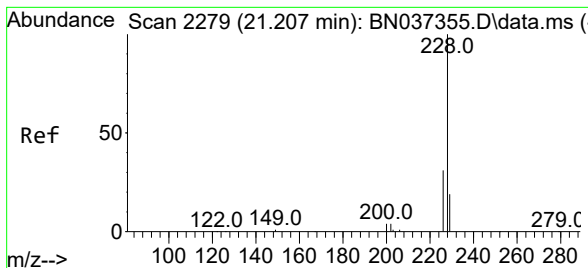
Ion Ratio Lower Upper

228 100

226 30.6 23.0 34.4

229 22.0 17.4 26.0





#33

Chrysene

Concen: 0.107 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

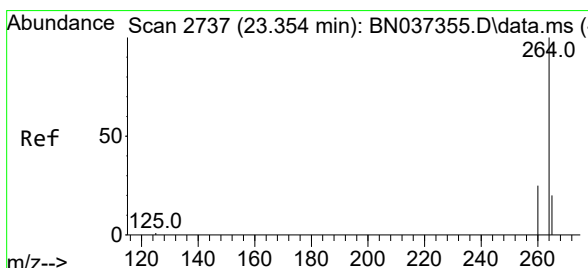
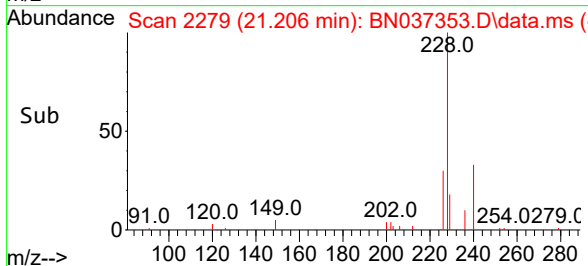
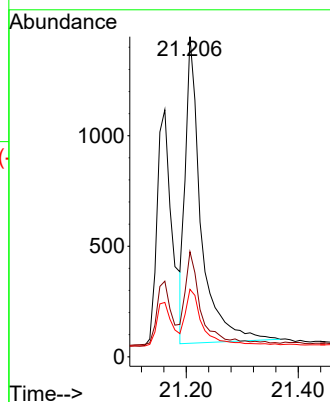
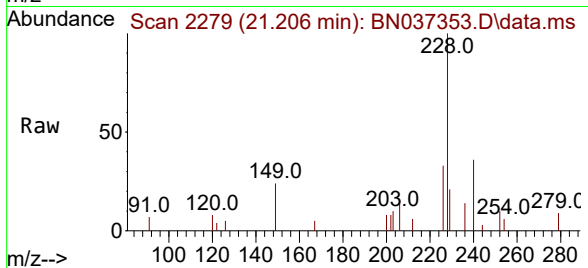
Tgt Ion:228 Resp: 2687

Ion Ratio Lower Upper

228 100

226 32.8 25.4 38.2

229 21.1 17.3 25.9



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 2738

Delta R.T. 0.003 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

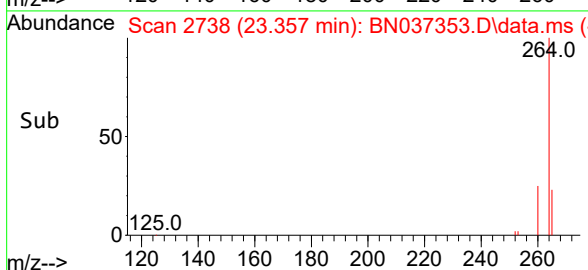
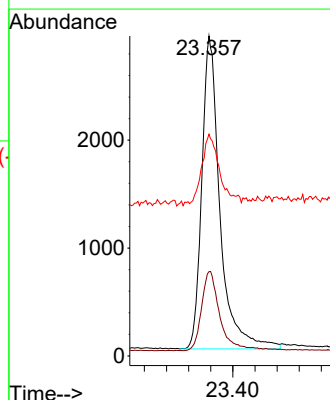
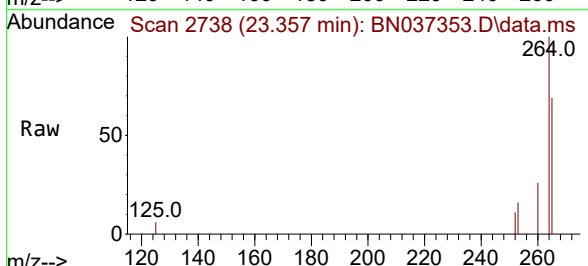
Tgt Ion:264 Resp: 6598

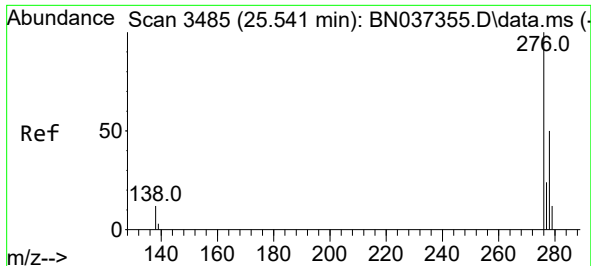
Ion Ratio Lower Upper

264 100

260 26.4 21.4 32.2

265 69.3 71.4 107.0#

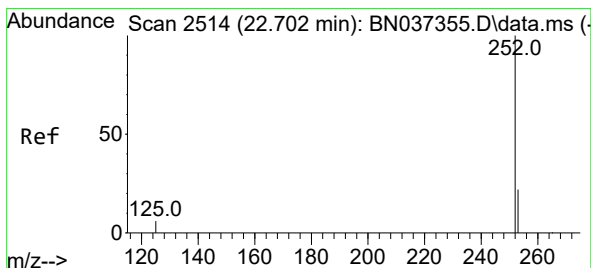
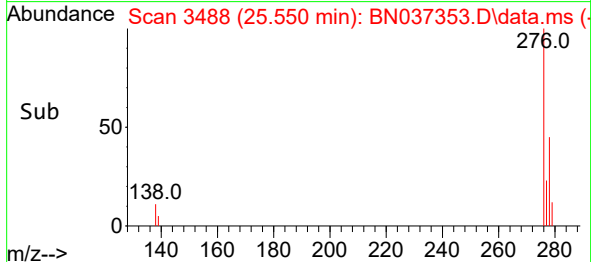
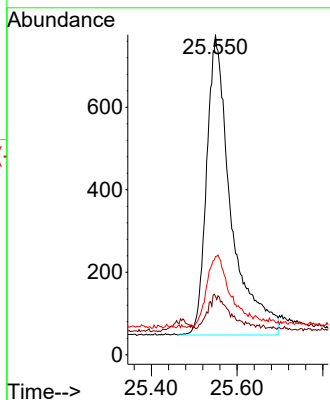
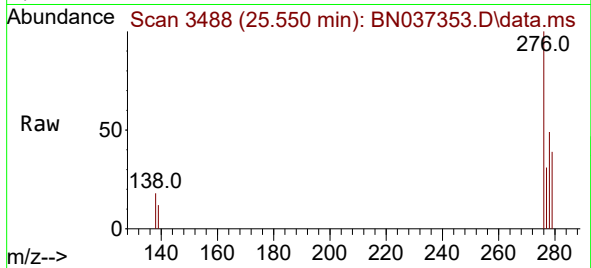




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.103 ng
RT: 25.550 min Scan# 3488
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

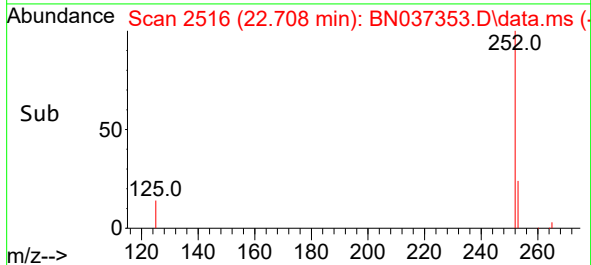
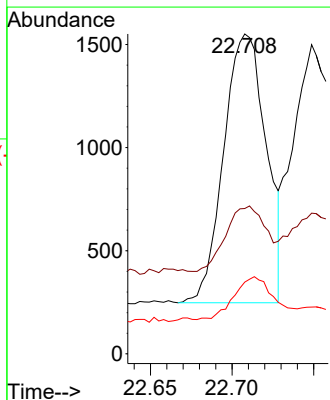
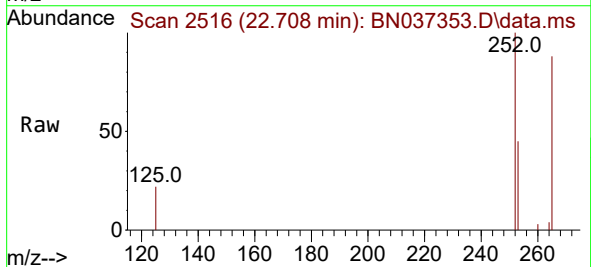
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

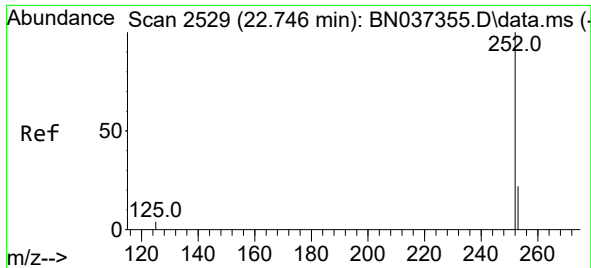
Tgt Ion:276 Resp: 2871
Ion Ratio Lower Upper
276 100
138 4.2 2.2 3.2#
277 22.3 17.1 25.7



#37
Benzo(b)fluoranthene
Concen: 0.101 ng
RT: 22.708 min Scan# 2516
Delta R.T. 0.006 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:252 Resp: 2355
Ion Ratio Lower Upper
252 100
253 45.5 26.6 40.0#
125 22.4 6.1 9.1#

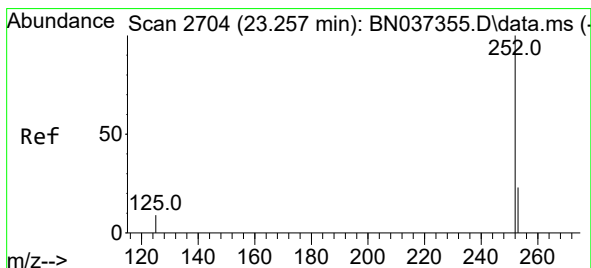
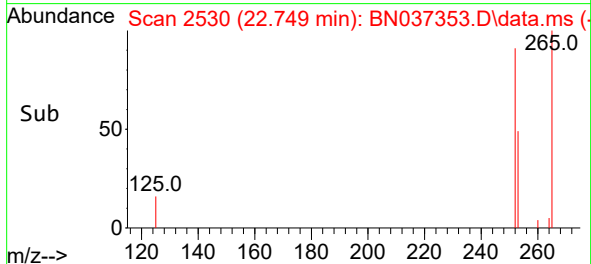
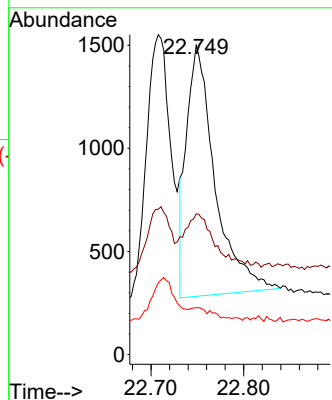
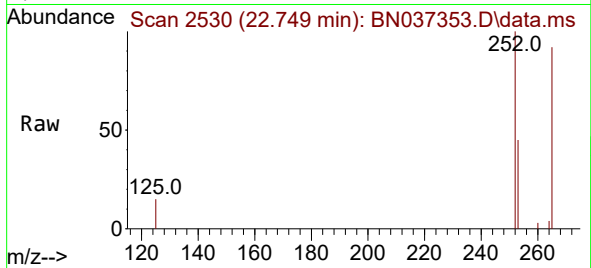




#38
Benzo(k)fluoranthene
Concen: 0.102 ng
RT: 22.749 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

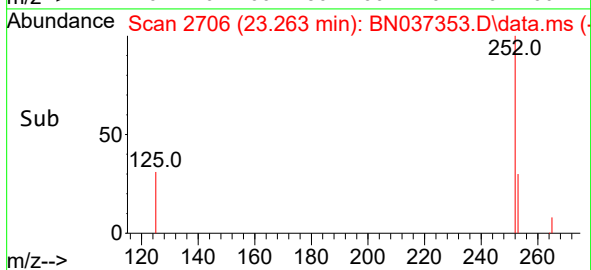
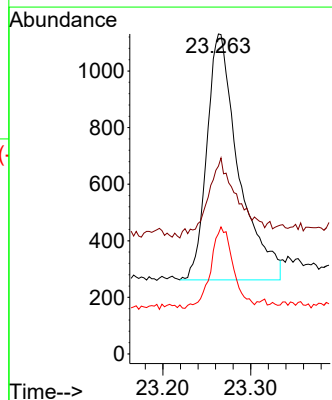
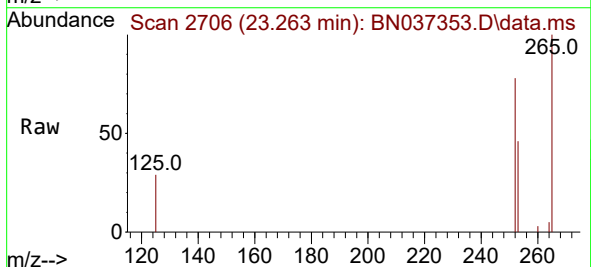
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

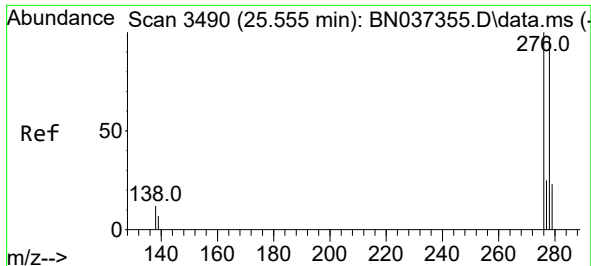
Tgt Ion:252 Resp: 2600
Ion Ratio Lower Upper
252 100
253 45.5 26.7 40.1#
125 15.1 6.5 9.7#



#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 23.263 min Scan# 2706
Delta R.T. 0.006 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:252 Resp: 2178
Ion Ratio Lower Upper
252 100
253 58.7 31.6 47.4#
125 37.6 8.4 12.6#

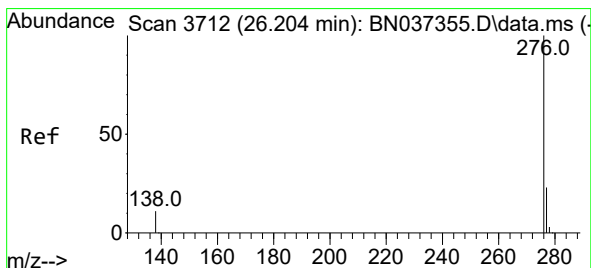
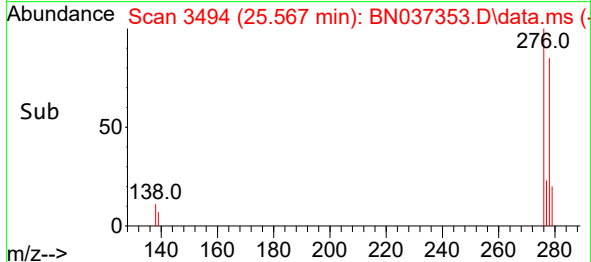
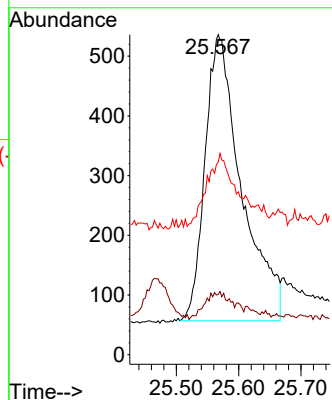
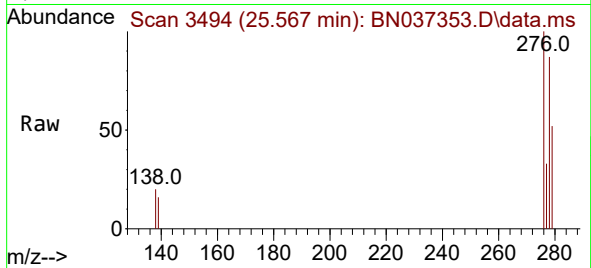




#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.567 min Scan# 3494
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:278 Resp: 1944
Ion Ratio Lower Upper
278 100
139 18.8 10.2 15.4#
279 60.3 35.6 53.4#



#41
Benzo(g,h,i)perylene
Concen: 0.104 ng
RT: 26.213 min Scan# 3715
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:276 Resp: 2673
Ion Ratio Lower Upper
276 100
277 30.6 22.7 34.1
138 18.2 9.4 14.2#

