

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
 Data File : BN036935.D
 Acq On : 29 Apr 2025 10:46
 Operator : RC/JU
 Sample : Q1502-21DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Apr 29 11:12:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

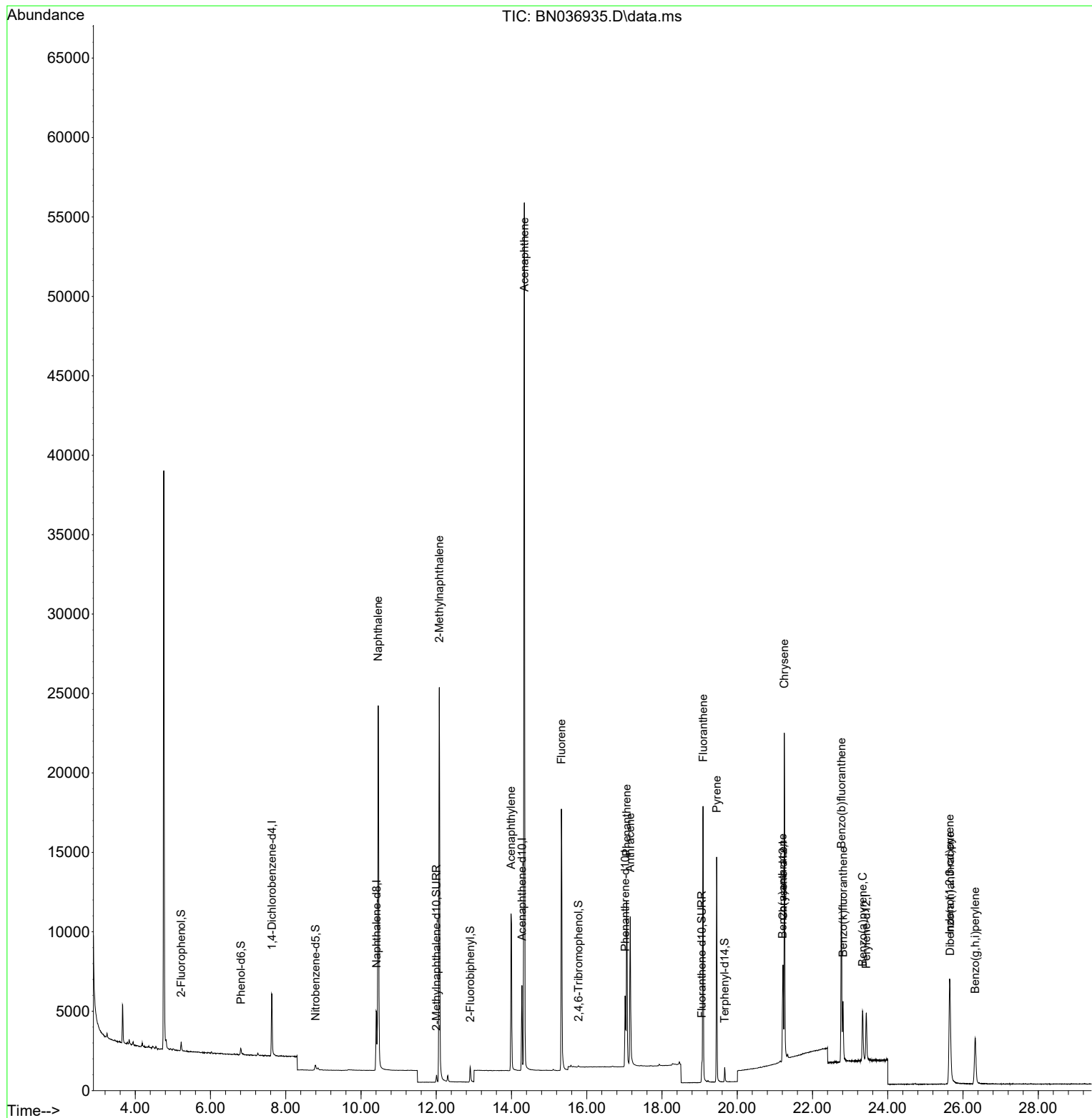
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2053	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5233	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	2878	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5921	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4587	0.400	ng	0.00
35) Perylene-d12	23.430	264	4061	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	372	0.071	ng	0.00
5) Phenol-d6	6.809	99	448	0.069	ng	0.00
8) Nitrobenzene-d5	8.792	82	399	0.073	ng	0.01
11) 2-Methylnaphthalene-d10	12.006	152	627	0.086	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	48	0.037	ng	0.01
15) 2-Fluorobiphenyl	12.904	172	1212	0.087	ng	0.00
27) Fluoranthene-d10	19.059	212	1360	0.089	ng	0.00
31) Terphenyl-d14	19.667	244	948	0.088	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.458	128	29566	1.941	ng	98
12) 2-Methylnaphthalene	12.082	142	18255	1.854	ng	99
16) Acenaphthylene	13.989	152	11895	0.846	ng	99
17) Acenaphthene	14.341	154	25846	2.797	ng	99
18) Fluorene	15.325	166	11300	0.935	ng	99
25) Phenanthrene	17.058	178	11522	0.590	ng	99
26) Anthracene	17.158	178	11149	0.631	ng	100
28) Fluoranthene	19.091	202	16121	0.736	ng	100
30) Pyrene	19.454	202	12216	0.553	ng	100
32) Benzo(a)anthracene	21.207	228	2922	0.173	ng	97
33) Chrysene	21.251	228	17449	0.958	ng	99
36) Indeno(1,2,3-cd)pyrene	25.646	276	11270	0.680	ng	95
37) Benzo(b)fluoranthene	22.766	252	13016	0.762	ng	93
38) Benzo(k)fluoranthene	22.810	252	4912	0.286	ng	98
39) Benzo(a)pyrene	23.331	252	5033	0.359	ng	98
40) Dibenzo(a,h)anthracene	25.661	278	3281	0.251	ng	94
41) Benzo(g,h,i)perylene	26.324	276	5823	0.402	ng	98

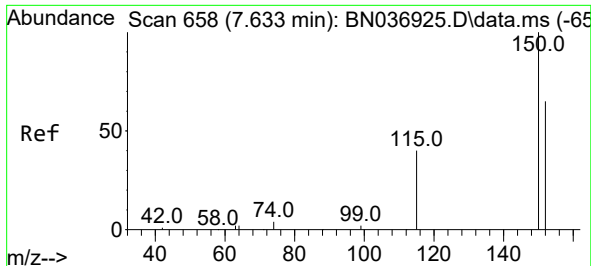
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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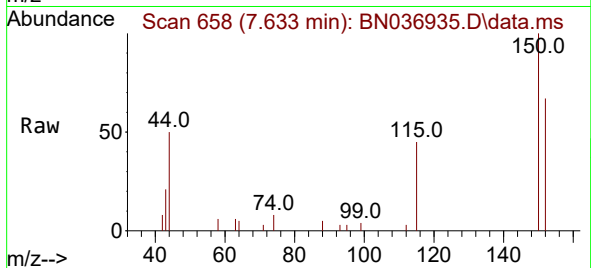
Quant Time: Apr 29 11:12:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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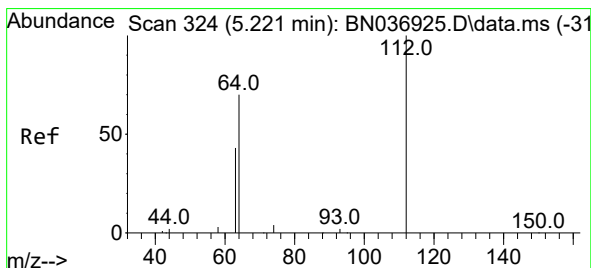
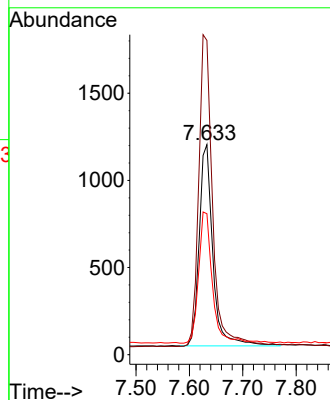
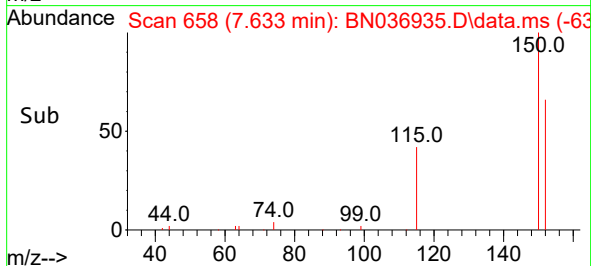


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

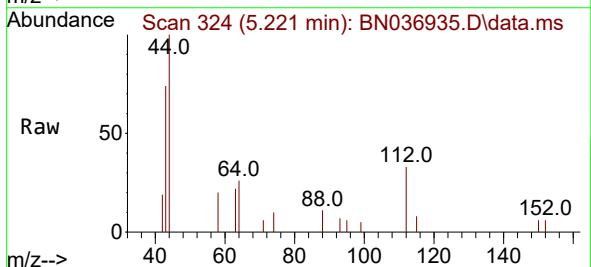
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



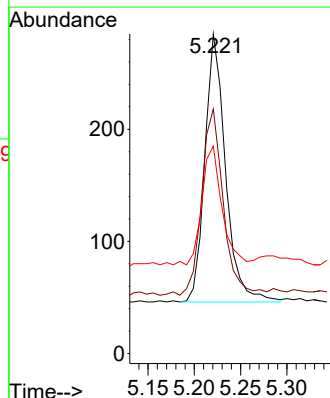
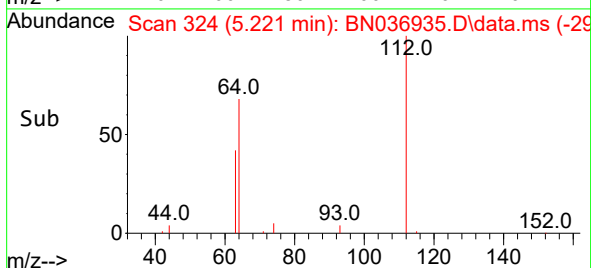
Tgt Ion:152 Resp: 2053
Ion Ratio Lower Upper
152 100
150 149.6 121.1 181.7
115 67.1 51.8 77.6

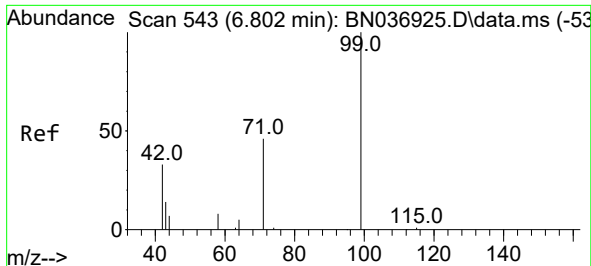


#4
2-Fluorophenol
Concen: 0.071 ng
RT: 5.221 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46



Tgt Ion:112 Resp: 372
Ion Ratio Lower Upper
112 100
64 72.8 55.7 83.5
63 43.3 33.9 50.9

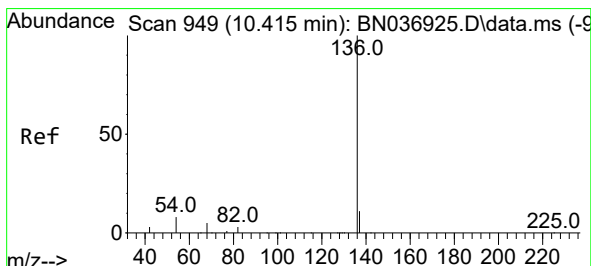
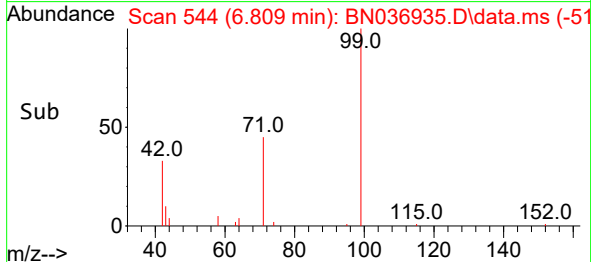
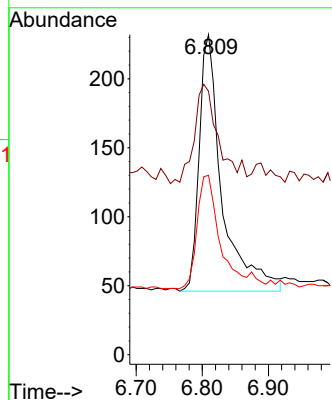
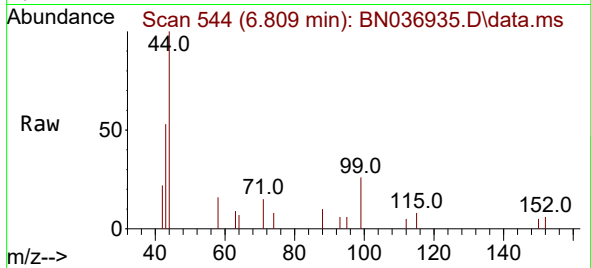




#5
Phenol-d6
Concen: 0.069 ng
RT: 6.809 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

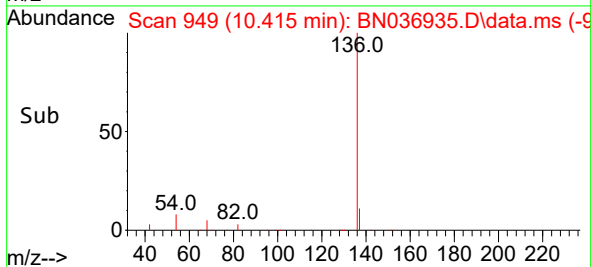
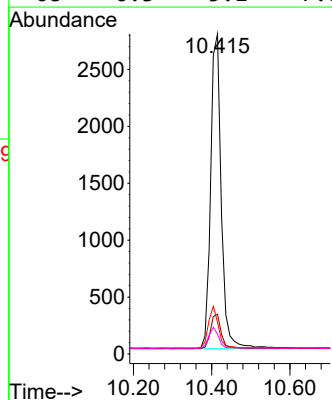
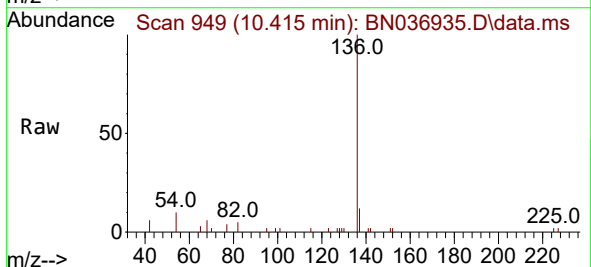
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

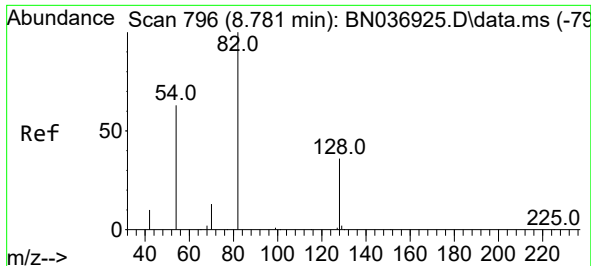
Tgt Ion: 99 Resp: 448
Ion Ratio Lower Upper
99 100
42 41.3 29.6 44.4
71 45.5 36.0 54.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

Tgt Ion: 136 Resp: 5233
Ion Ratio Lower Upper
136 100
137 12.4 9.7 14.5
54 9.9 8.0 12.0
68 6.3 5.1 7.7

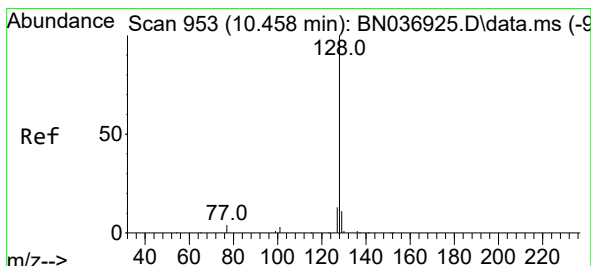
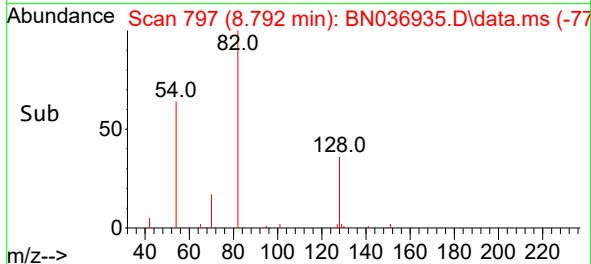
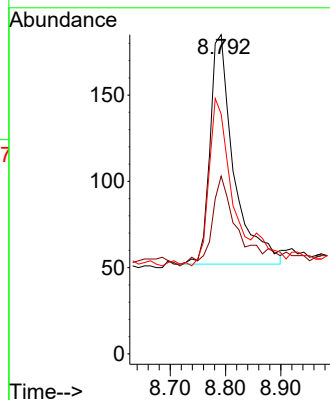
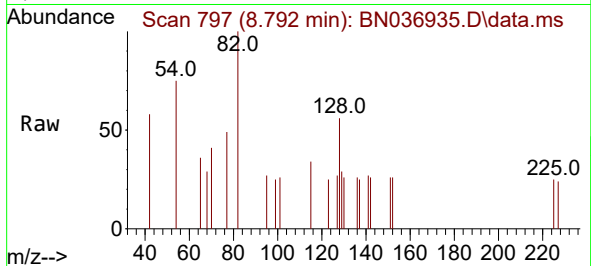




#8
Nitrobenzene-d5
Concen: 0.073 ng
RT: 8.792 min Scan# 796
Delta R.T. 0.011 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

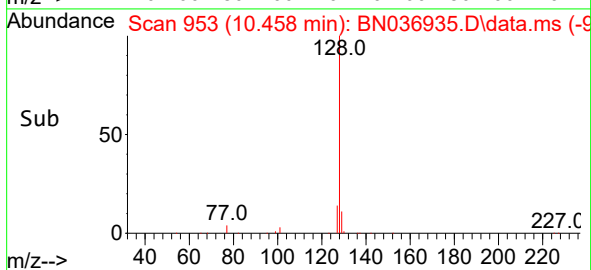
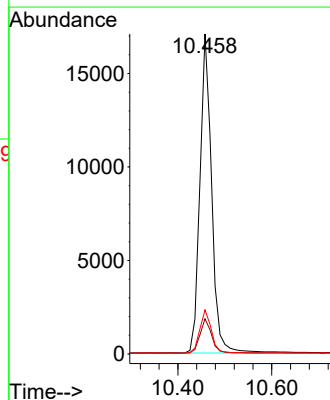
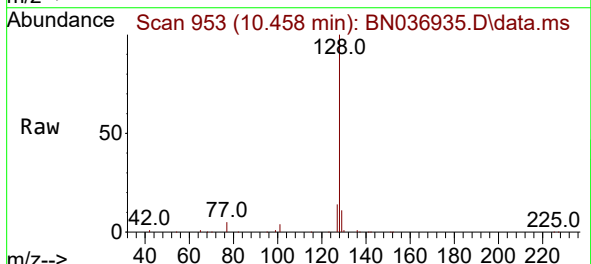
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

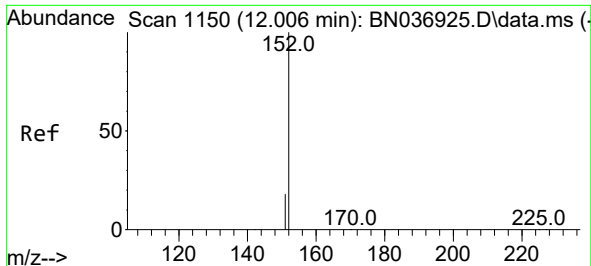
Tgt Ion: 82 Resp: 399
Ion Ratio Lower Upper
82 100
128 55.7 30.7 46.1#
54 75.1 52.1 78.1



#9
Naphthalene
Concen: 1.941 ng
RT: 10.458 min Scan# 953
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

Tgt Ion: 128 Resp: 29566
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.6
127 13.8 11.4 17.2

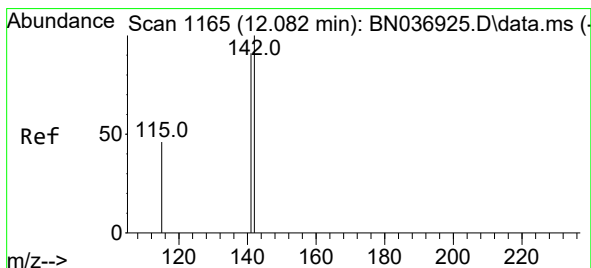
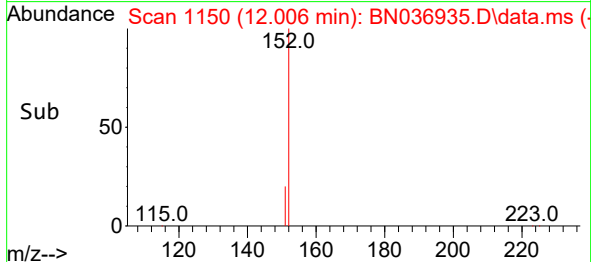
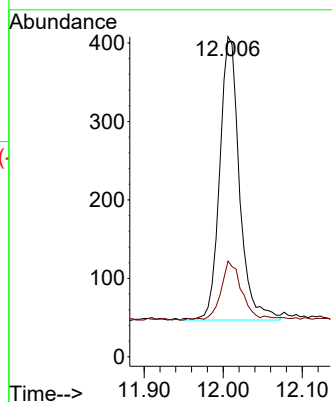
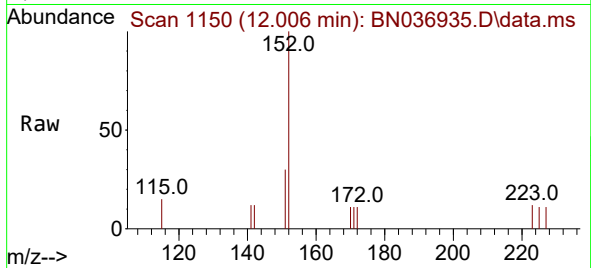




#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

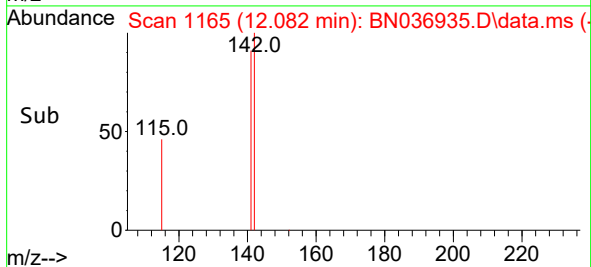
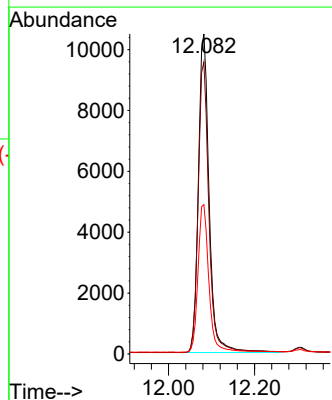
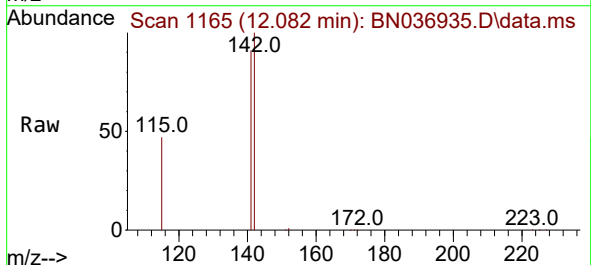
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

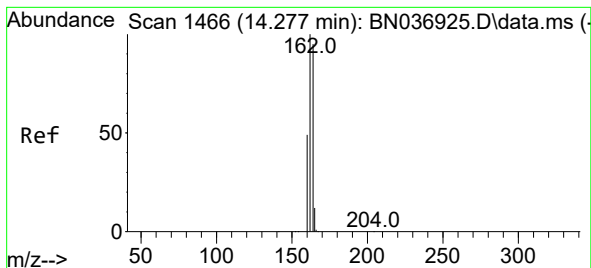
Tgt Ion:152 Resp: 627
Ion Ratio Lower Upper
152 100
151 22.6 16.9 25.3



#12
2-Methylnaphthalene
Concen: 1.854 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

Tgt Ion:142 Resp: 18255
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 46.6 38.2 57.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

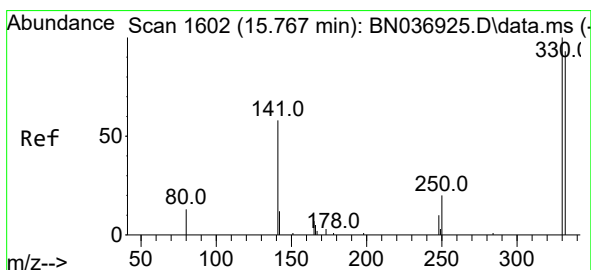
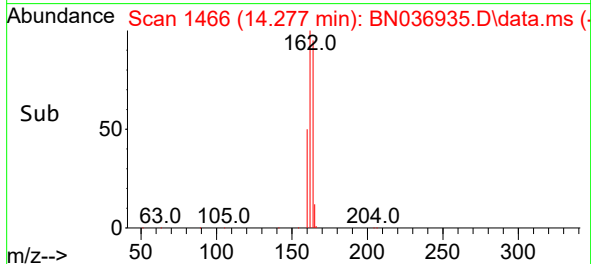
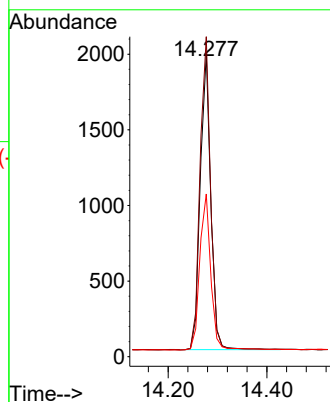
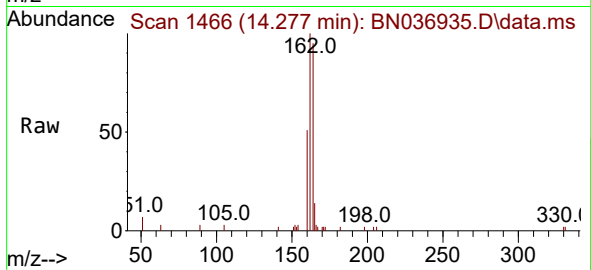
Tgt Ion:164 Resp: 2878

Ion Ratio Lower Upper

164 100

162 105.6 83.8 125.8

160 53.7 42.0 63.0



#14

2,4,6-Tribromophenol

Concen: 0.037 ng

RT: 15.780 min Scan# 1603

Delta R.T. 0.012 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

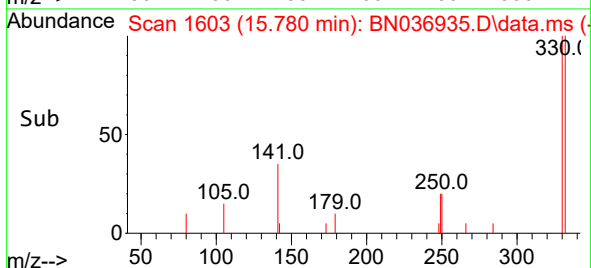
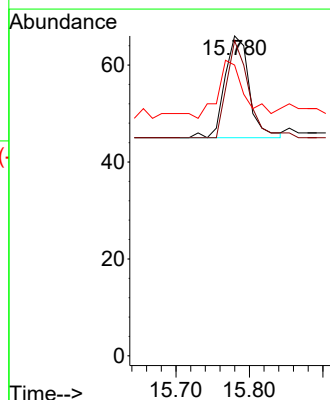
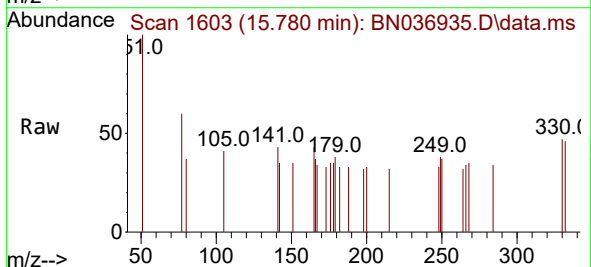
Tgt Ion:330 Resp: 48

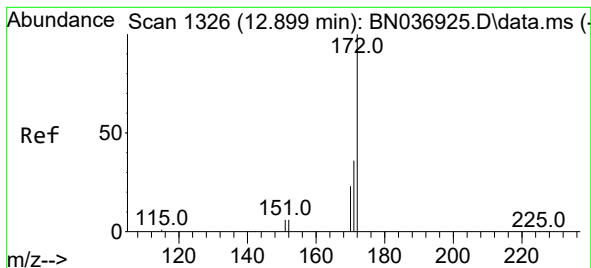
Ion Ratio Lower Upper

330 100

332 87.5 76.3 114.5

141 62.5 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.087 ng

RT: 12.904 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

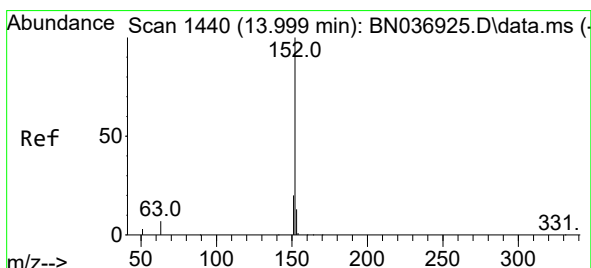
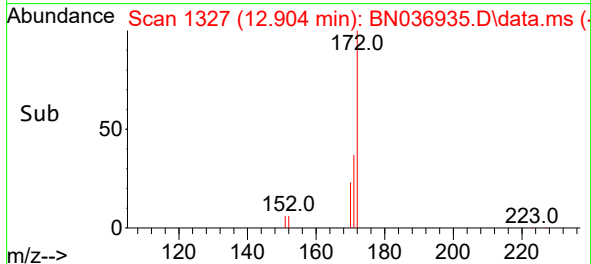
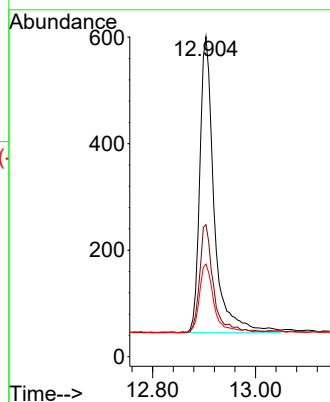
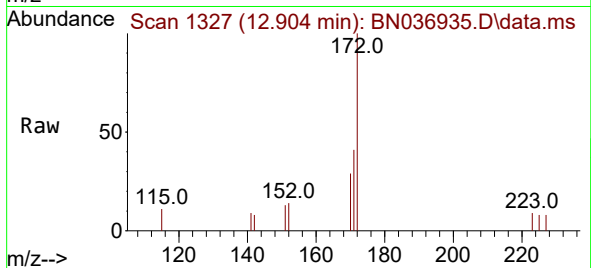
Tgt Ion:172 Resp: 1212

Ion Ratio Lower Upper

172 100

171 41.3 29.4 44.0

170 29.0 19.4 29.0



#16

Acenaphthylene

Concen: 0.846 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

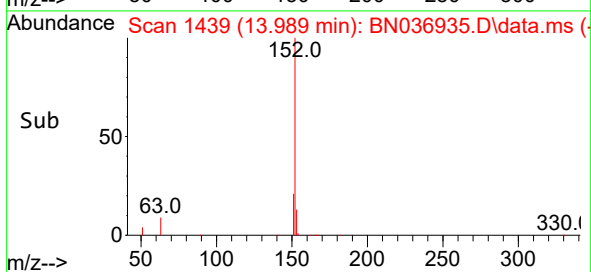
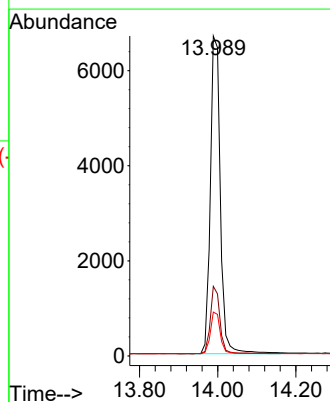
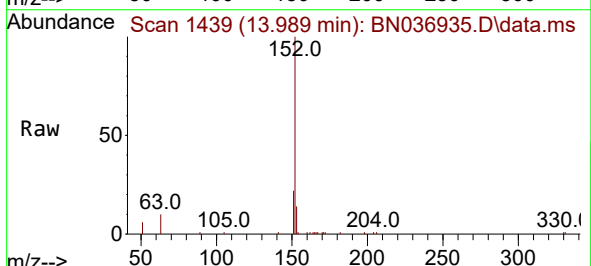
Tgt Ion:152 Resp: 11895

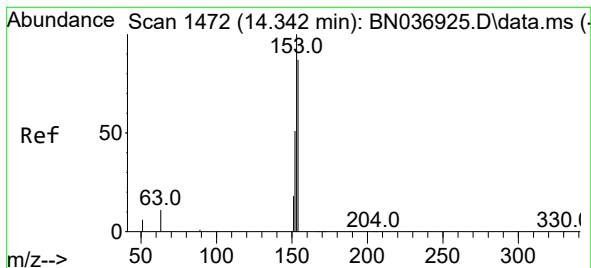
Ion Ratio Lower Upper

152 100

151 20.3 16.0 24.0

153 13.1 10.2 15.2





#17

Acenaphthene

Concen: 2.797 ng

RT: 14.341 min Scan# 1472

Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

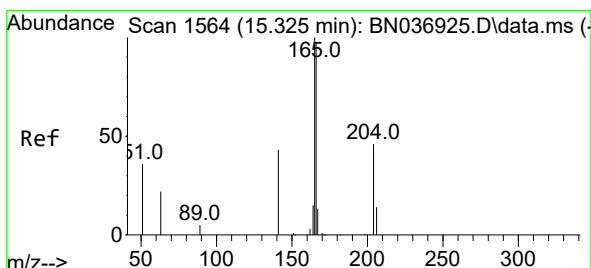
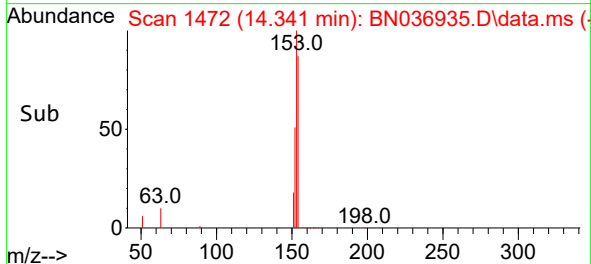
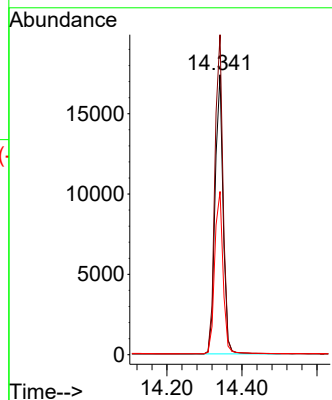
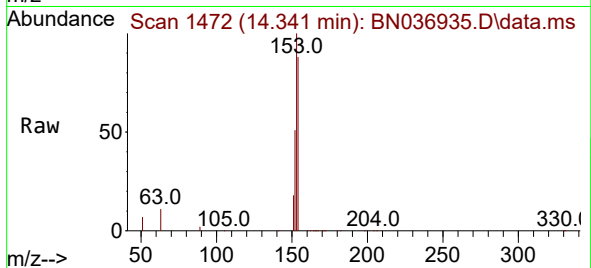
Tgt Ion:154 Resp: 25846

Ion Ratio Lower Upper

154 100

153 116.3 93.4 140.2

152 60.9 49.5 74.3



#18

Fluorene

Concen: 0.935 ng

RT: 15.325 min Scan# 1564

Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

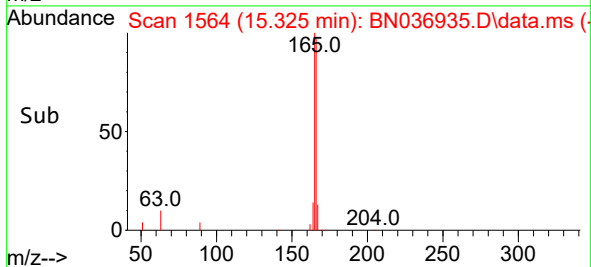
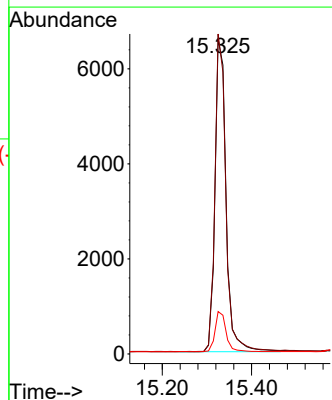
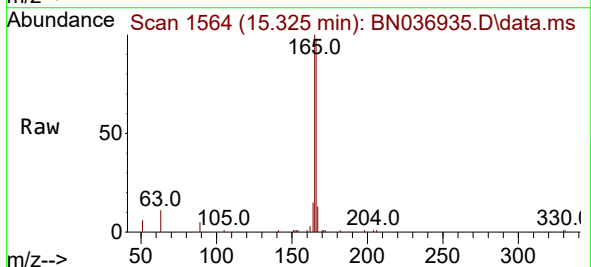
Tgt Ion:166 Resp: 11300

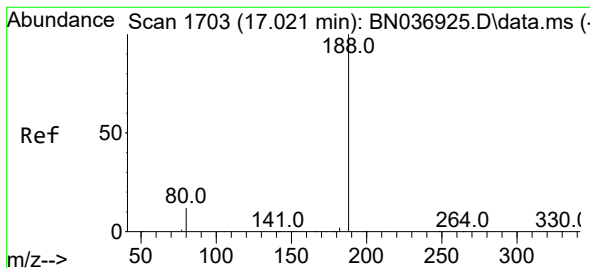
Ion Ratio Lower Upper

166 100

165 100.1 80.8 121.2

167 12.9 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

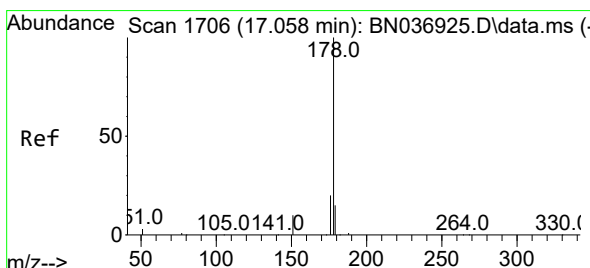
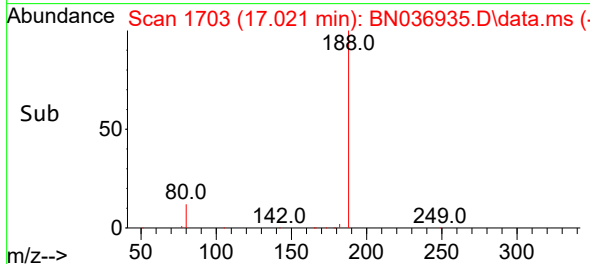
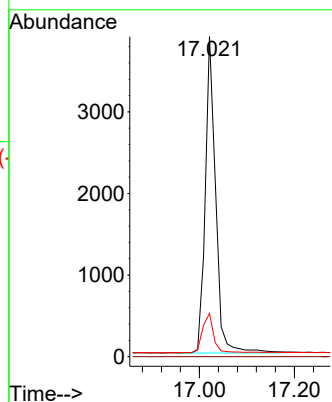
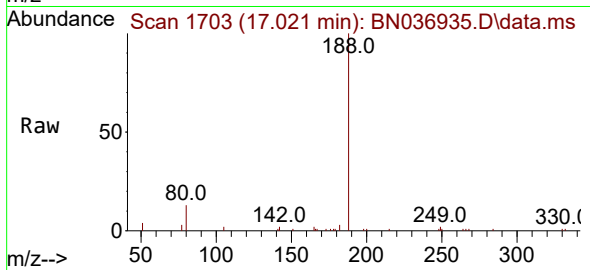
Tgt Ion:188 Resp: 5921

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.5 10.7 16.1



#25

Phenanthrene

Concen: 0.590 ng

RT: 17.058 min Scan# 1706

Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

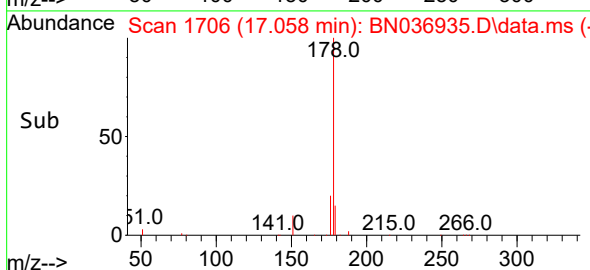
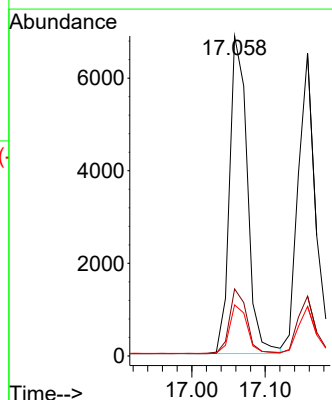
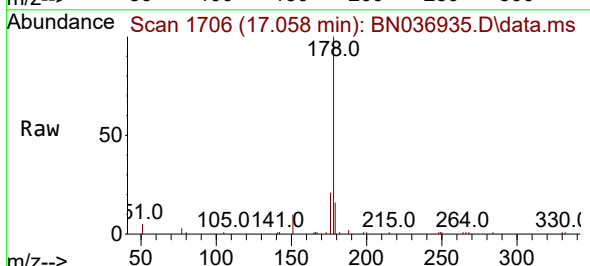
Tgt Ion:178 Resp: 11522

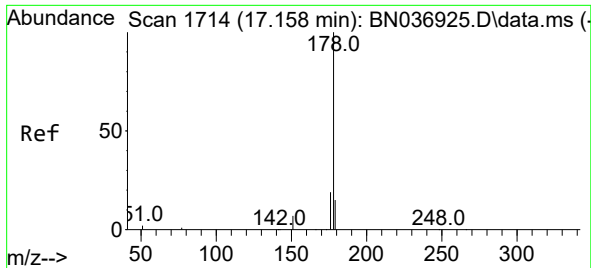
Ion Ratio Lower Upper

178 100

176 19.9 15.7 23.5

179 15.3 12.4 18.6

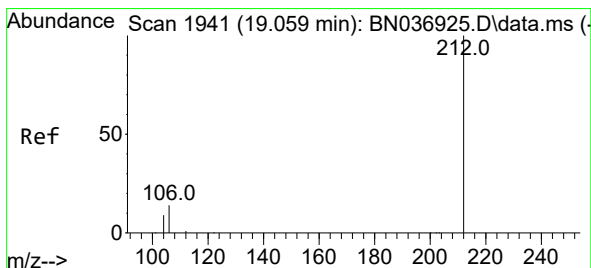
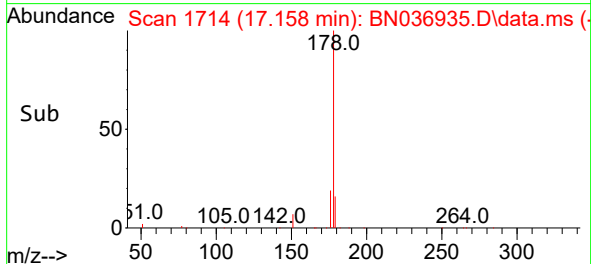
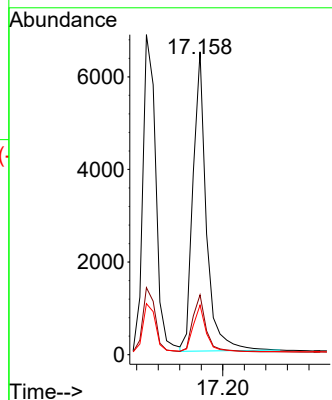
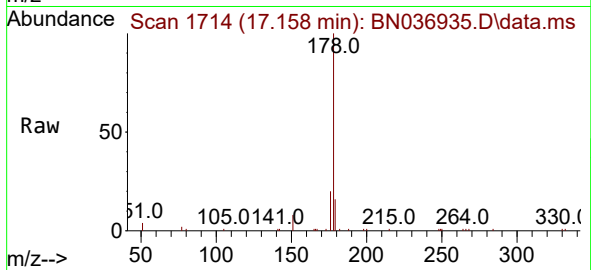




#26
 Anthracene
 Concen: 0.631 ng
 RT: 17.158 min Scan# 1714
 Delta R.T. -0.000 min
 Lab File: BN036935.D
 Acq: 29 Apr 2025 10:46

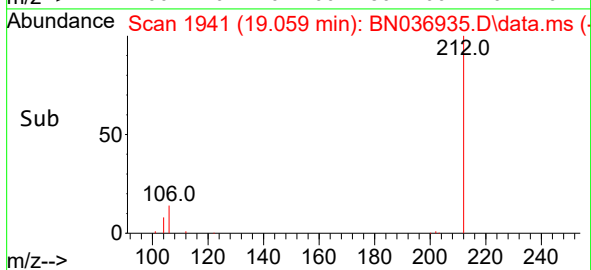
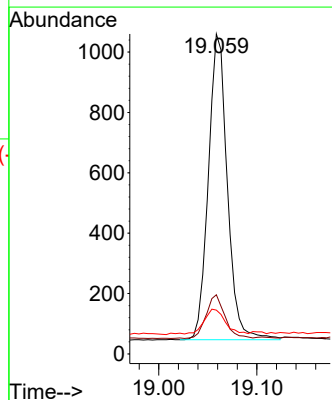
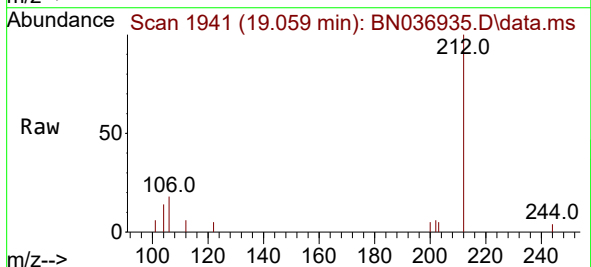
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

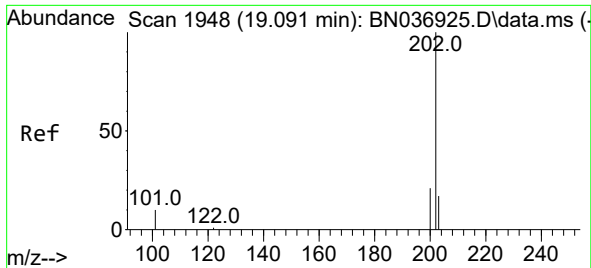
Tgt Ion:178 Resp: 11149
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.3 22.9
 179 15.5 12.1 18.1



#27
 Fluoranthene-d10
 Concen: 0.089 ng
 RT: 19.059 min Scan# 1941
 Delta R.T. -0.000 min
 Lab File: BN036935.D
 Acq: 29 Apr 2025 10:46

Tgt Ion:212 Resp: 1360
 Ion Ratio Lower Upper
 212 100
 106 14.1 11.6 17.4
 104 9.6 7.0 10.4

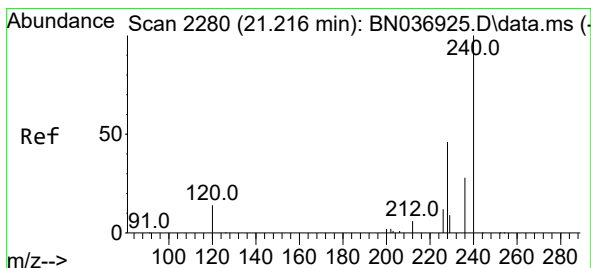
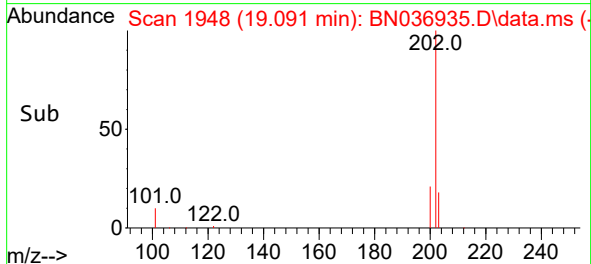
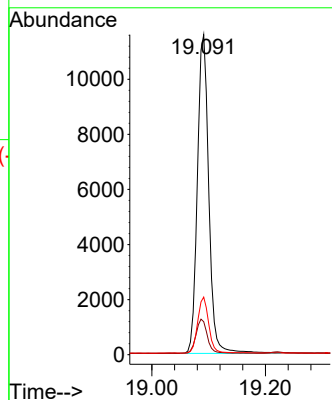
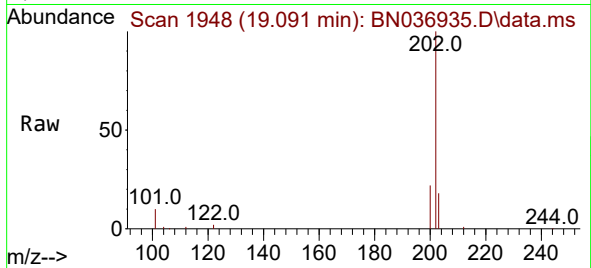




#28
Fluoranthene
Concen: 0.736 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

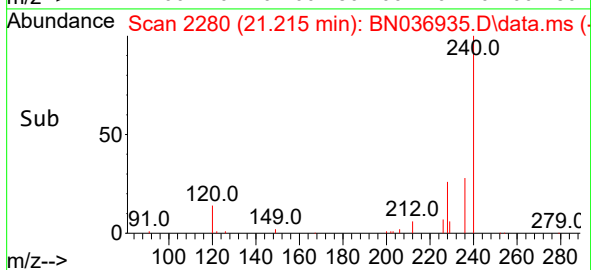
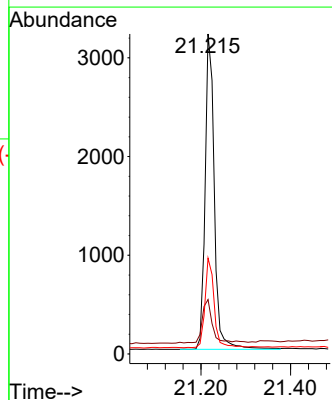
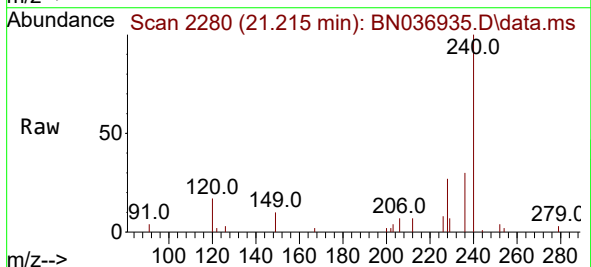
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

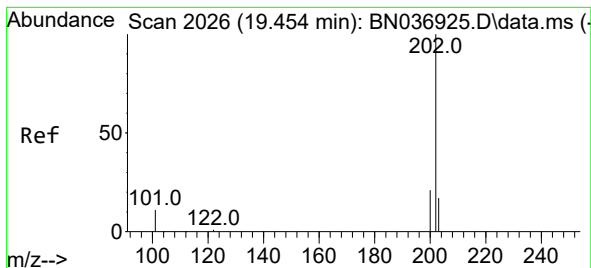
Tgt Ion:202 Resp: 16121
Ion Ratio Lower Upper
202 100
101 10.5 8.5 12.7
203 17.3 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

Tgt Ion:240 Resp: 4587
Ion Ratio Lower Upper
240 100
120 17.0 14.1 21.1
236 30.0 23.8 35.8





#30

Pyrene

Concen: 0.553 ng

RT: 19.454 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

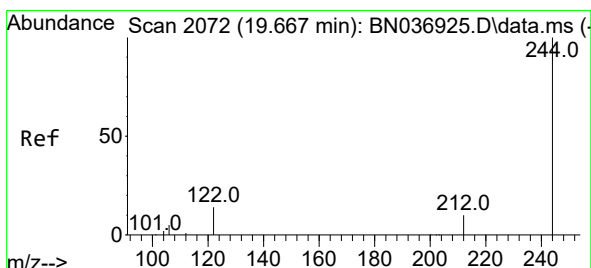
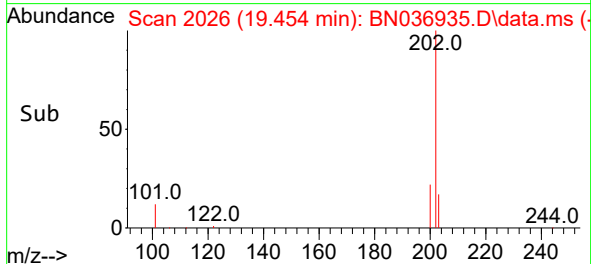
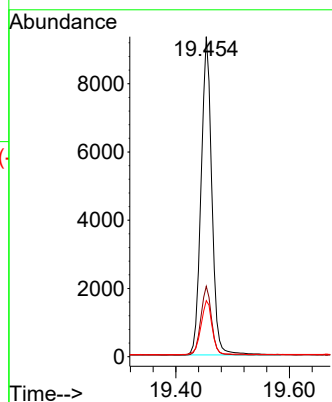
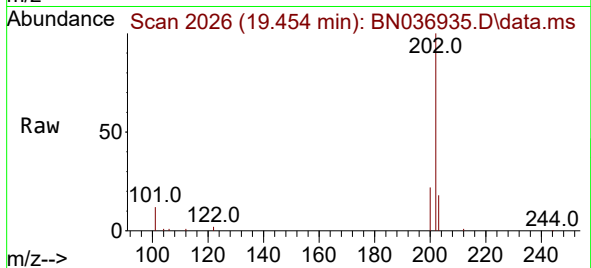
Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

Tgt Ion:202	Resp:	12216
Ion Ratio	Lower	Upper
202	100	
200	21.7	17.0 25.6
203	17.5	14.0 21.0



#31

Terphenyl-d14

Concen: 0.088 ng

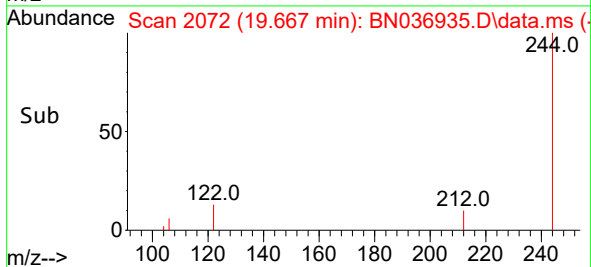
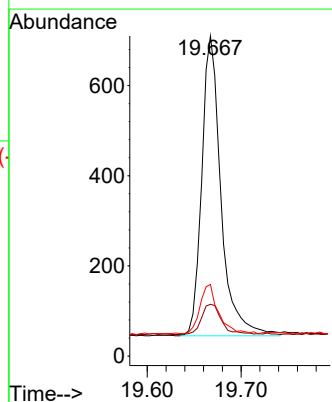
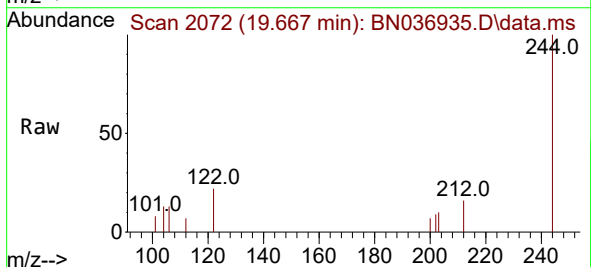
RT: 19.667 min Scan# 2072

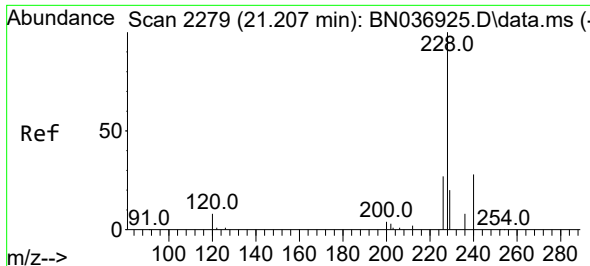
Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

Tgt Ion:244	Resp:	948
Ion Ratio	Lower	Upper
244	100	
212	16.2	9.6 14.4#
122	22.4	12.7 19.1#

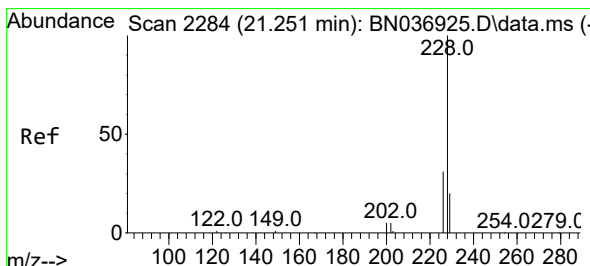
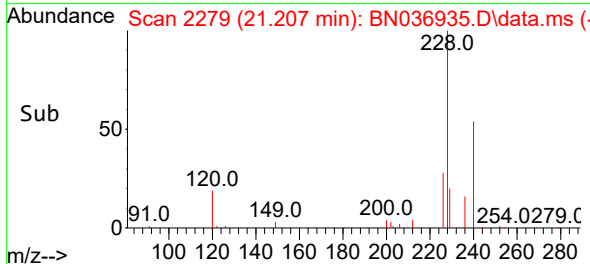
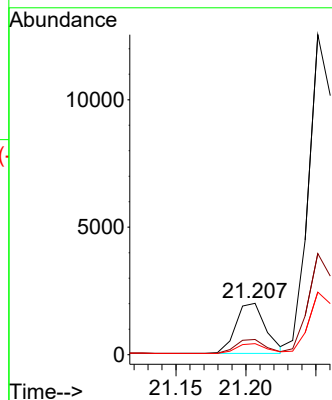
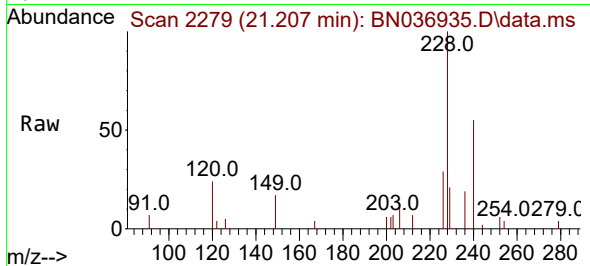




#32
Benzo(a)anthracene
Concen: 0.173 ng
RT: 21.207 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

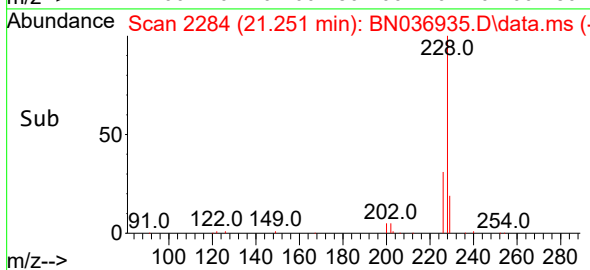
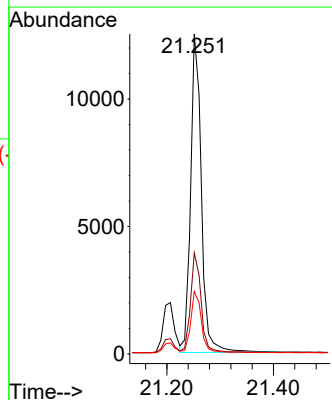
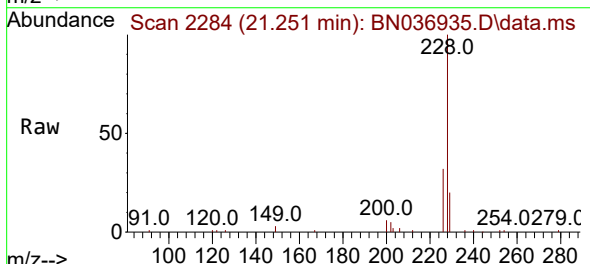
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

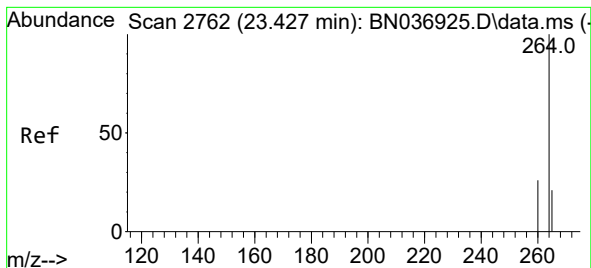
Tgt Ion:228 Resp: 2922
Ion Ratio Lower Upper
228 100
226 29.4 22.2 33.4
229 21.5 16.4 24.6



#33
Chrysene
Concen: 0.958 ng
RT: 21.251 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

Tgt Ion:228 Resp: 17449
Ion Ratio Lower Upper
228 100
226 31.6 25.5 38.3
229 19.6 16.5 24.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.430 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036935.D

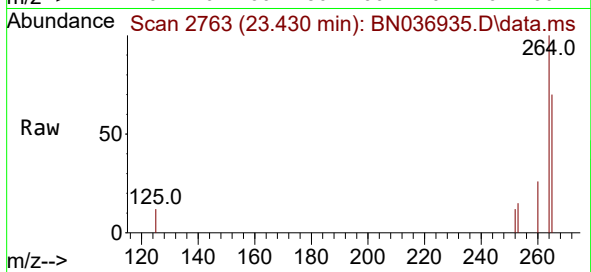
Acq: 29 Apr 2025 10:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



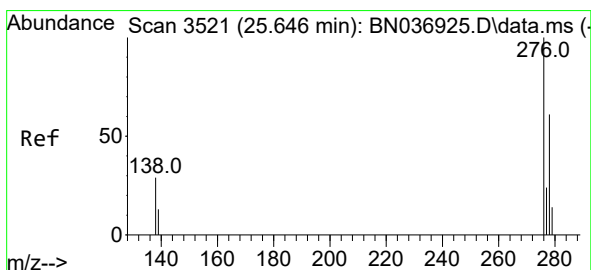
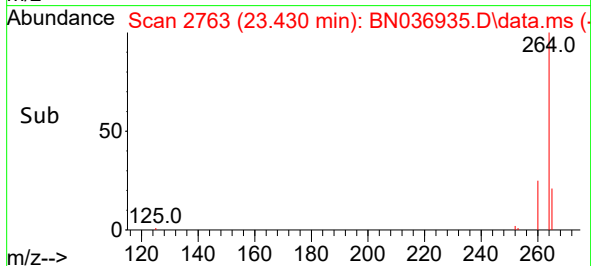
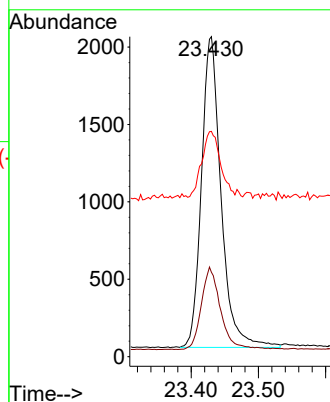
Tgt Ion:264 Resp: 4061

Ion Ratio Lower Upper

264 100

260 26.4 22.2 33.2

265 70.4 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.680 ng

RT: 25.646 min Scan# 3521

Delta R.T. -0.000 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

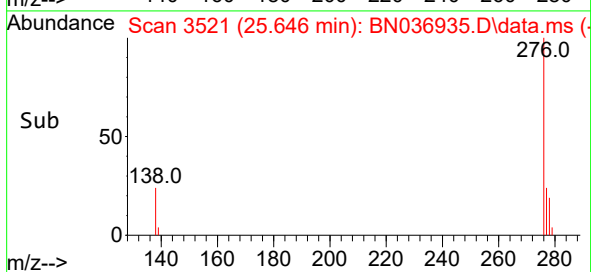
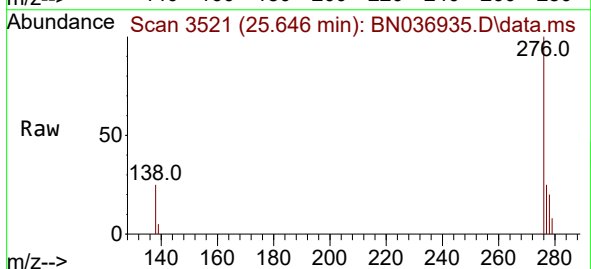
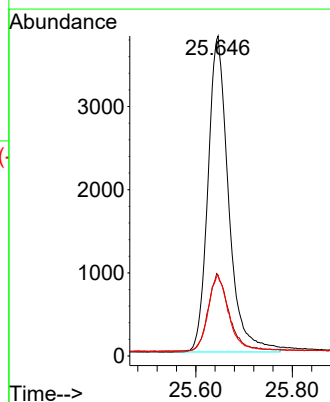
Tgt Ion:276 Resp: 11270

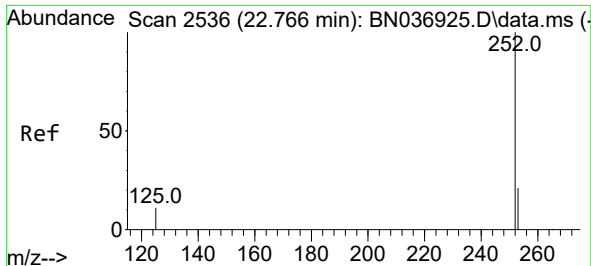
Ion Ratio Lower Upper

276 100

138 25.2 23.0 34.6

277 23.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.762 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036935.D

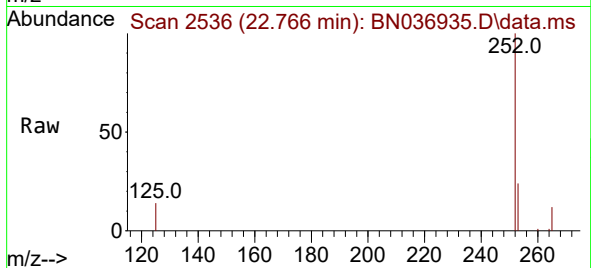
Acq: 29 Apr 2025 10:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



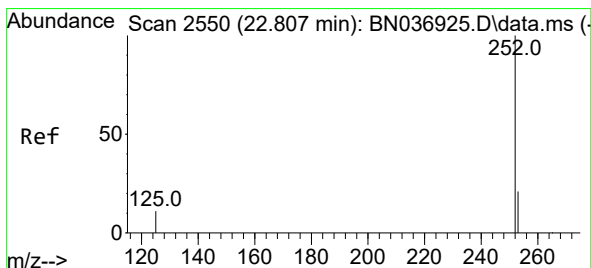
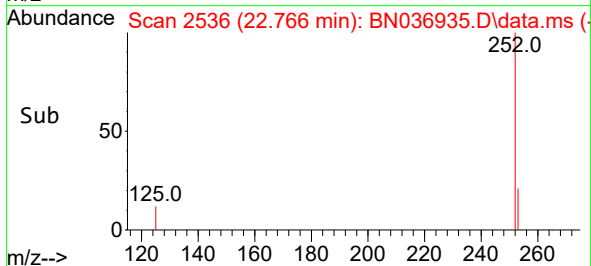
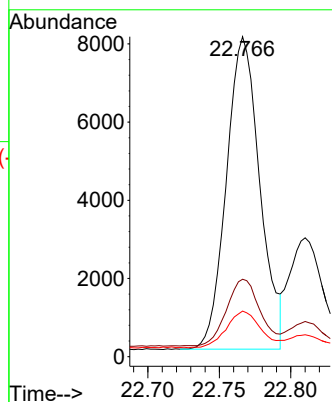
Tgt Ion:252 Resp: 13016

Ion Ratio Lower Upper

252 100

253 24.2 22.1 33.1

125 14.3 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.286 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

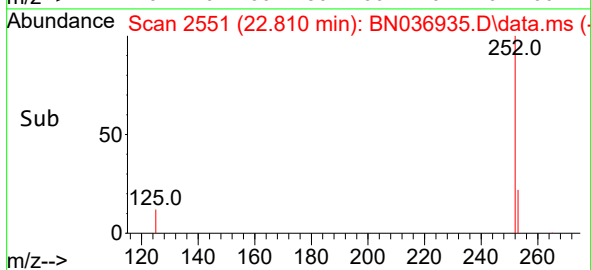
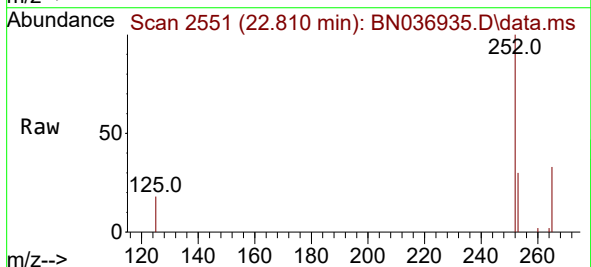
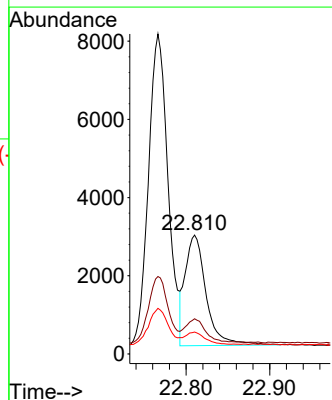
Tgt Ion:252 Resp: 4912

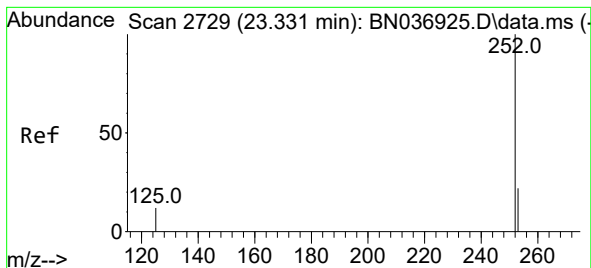
Ion Ratio Lower Upper

252 100

253 29.6 22.8 34.2

125 18.5 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.359 ng

RT: 23.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036935.D

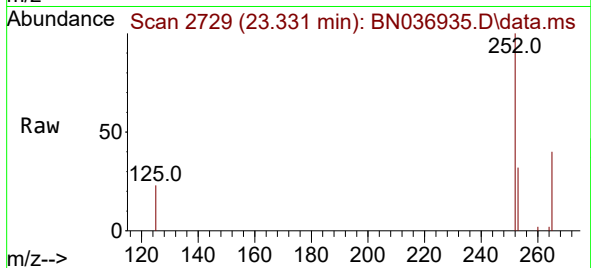
Acq: 29 Apr 2025 10:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



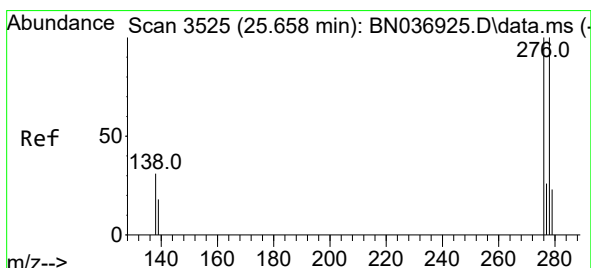
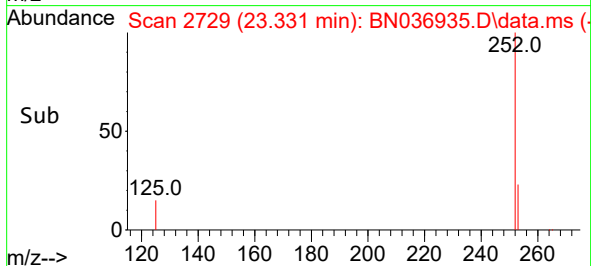
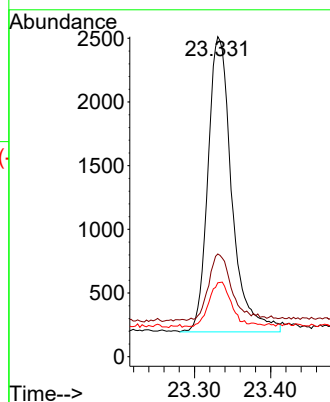
Tgt Ion:252 Resp: 5033

Ion Ratio Lower Upper

252 100

253 32.1 25.9 38.9

125 23.1 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.251 ng

RT: 25.661 min Scan# 3526

Delta R.T. 0.003 min

Lab File: BN036935.D

Acq: 29 Apr 2025 10:46

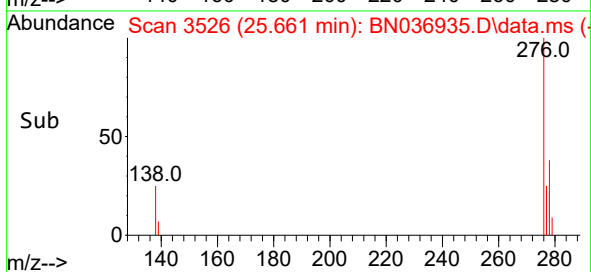
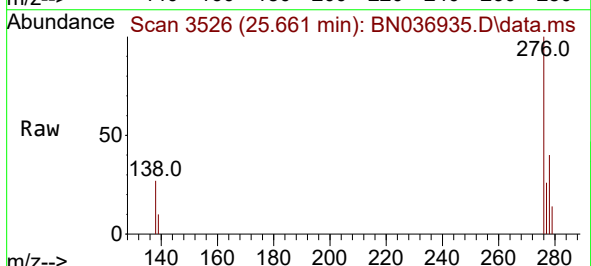
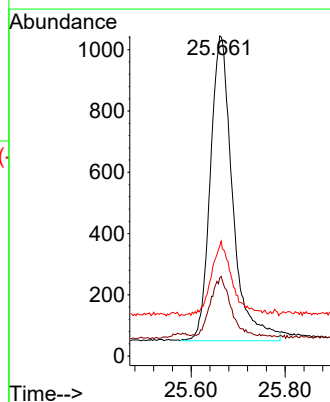
Tgt Ion:278 Resp: 3281

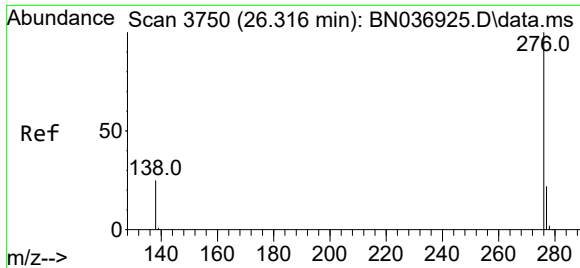
Ion Ratio Lower Upper

278 100

139 24.4 17.4 26.2

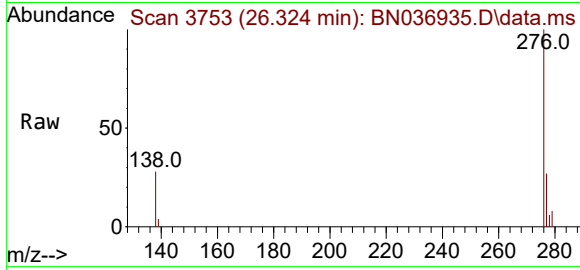
279 34.4 24.9 37.3





#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 26.324 min Scan# 31
Delta R.T. 0.009 min
Lab File: BN036935.D
Acq: 29 Apr 2025 10:46

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:	276	Resp:	5823
Ion	Ratio	Lower	Upper
276	100		
277	27.0	20.2	30.2
138	28.0	21.9	32.9

