

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062425\
 Data File : BF142831.D
 Acq On : 24 Jun 2025 21:08
 Operator : RC/JU
 Sample : Q2384-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-6202025

Quant Time: Jun 25 01:31:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

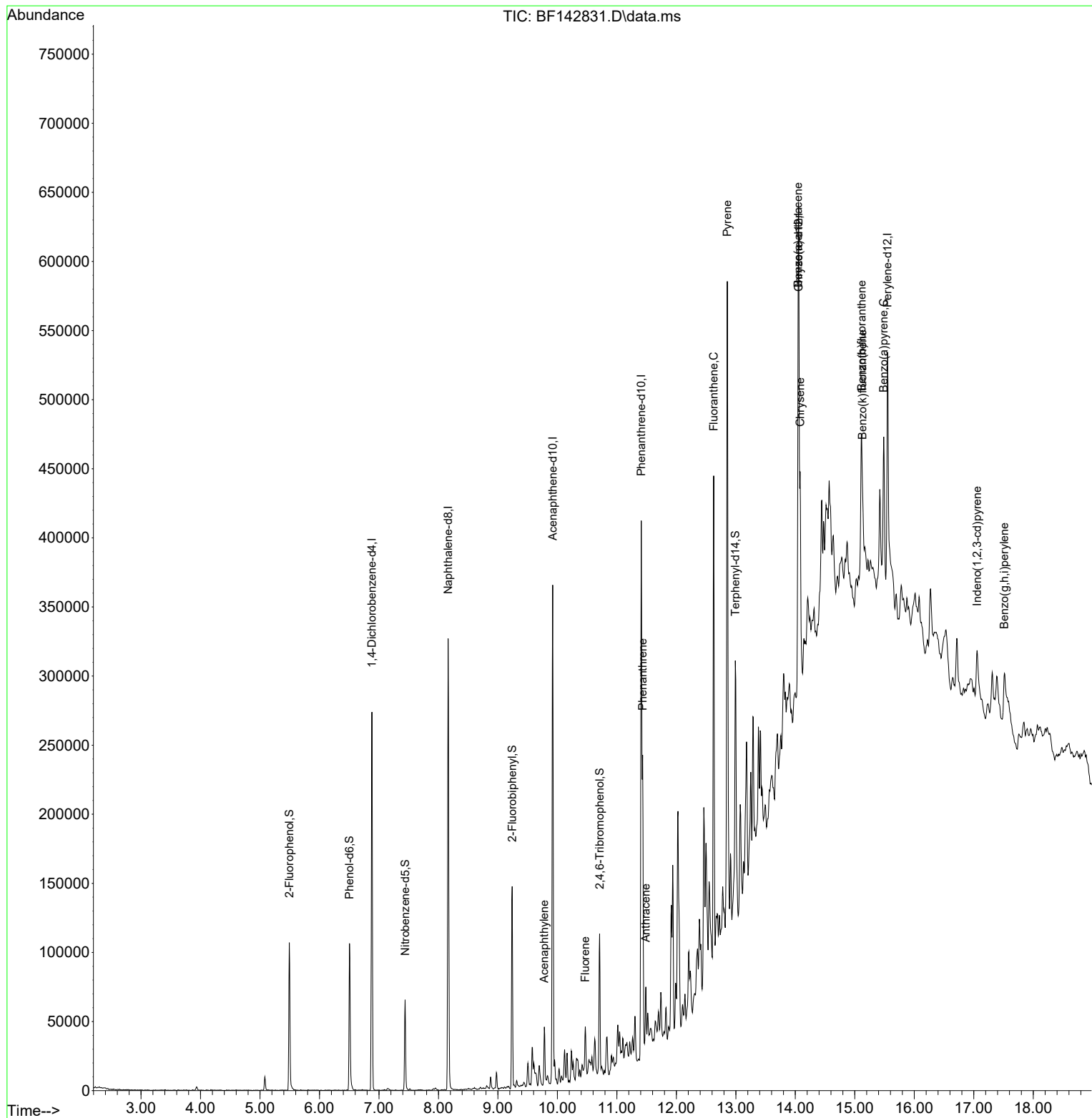
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	58569	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	208142	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	104476	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	199455	20.000	ng	0.00
76) Chrysene-d12	14.057	240	128963	20.000	ng	0.00
86) Perylene-d12	15.551	264	97400	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	44131	12.545	ng	0.00
7) Phenol-d6	6.504	99	51425	12.391	ng	0.00
23) Nitrobenzene-d5	7.440	82	27603	7.274	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	14406	13.399	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	65340	8.216	ng	0.00
79) Terphenyl-d14	12.992	244	81826	8.767	ng	0.00
Target Compounds						
						Qvalue
49) Acenaphthylene	9.781	152	22201	2.178	ng	96
58) Fluorene	10.469	166	15732	2.258	ng	# 93
71) Phenanthrene	11.433	178	112089	10.374	ng	99
72) Anthracene	11.486	178	30030	2.710	ng	98
75) Fluoranthene	12.627	202	191154	18.642	ng	100
78) Pyrene	12.857	202	266880	22.078	ng	99
81) Benzo(a)anthracene	14.045	228	94165	10.824	ng	# 92
83) Chrysene	14.080	228	84858	10.931	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.057	276	24754	3.337	ng	96
88) Benzo(b)fluoranthene	15.116	252	59933m	10.634	ng	
89) Benzo(k)fluoranthene	15.127	252	20590m	3.905	ng	
90) Benzo(a)pyrene	15.486	252	55929	10.272	ng	# 91
92) Benzo(g,h,i)perylene	17.515	276	26919	4.478	ng	# 92

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062425\
Data File : BF142831.D
Acq On : 24 Jun 2025 21:08
Operator : RC/JU
Sample : Q2384-01 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

Quant Time: Jun 25 01:31:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 24 05:28:21 2025
Response via : Initial Calibration

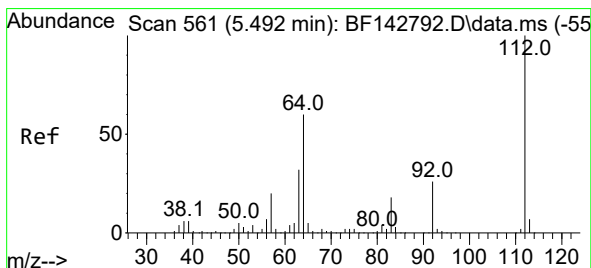
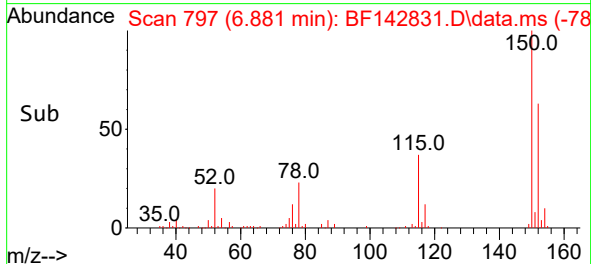
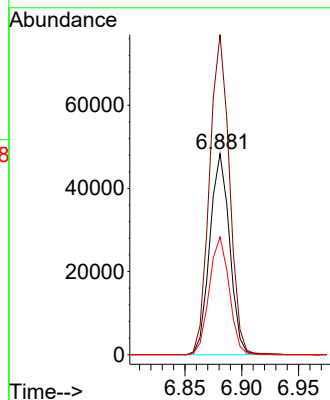
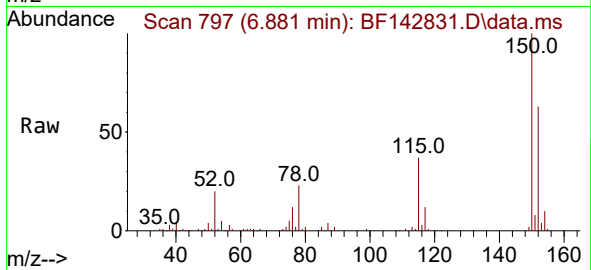




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

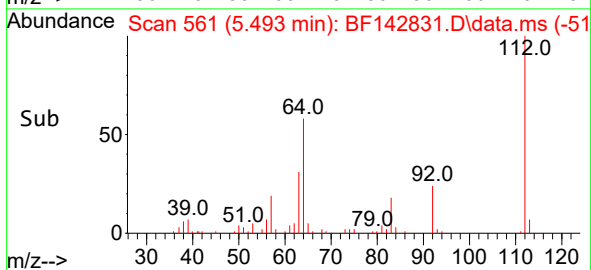
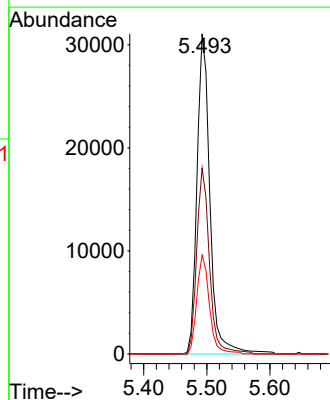
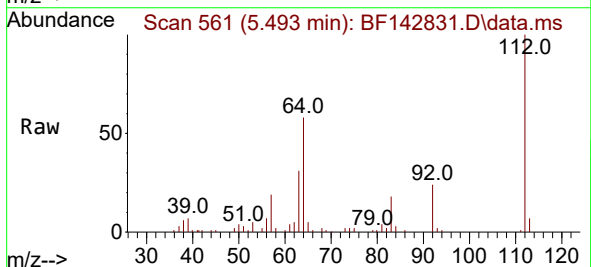
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

Tgt Ion:152 Resp: 58569
Ion Ratio Lower Upper
152 100
150 159.2 127.2 190.8
115 58.6 46.6 69.8



#5
2-Fluorophenol
Concen: 12.545 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion:112 Resp: 44131
Ion Ratio Lower Upper
112 100
64 58.1 48.2 72.2
63 30.9 25.7 38.5

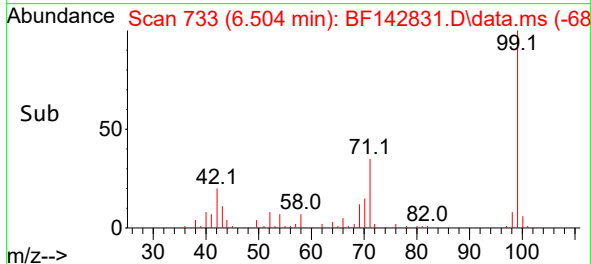
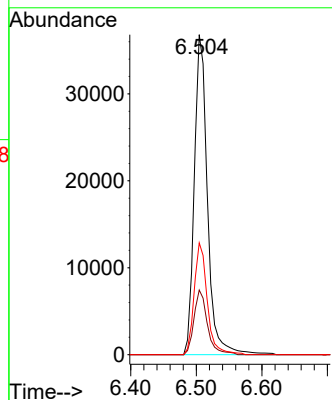
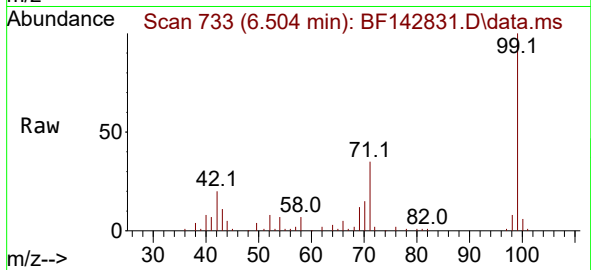




#7
Phenol-d6
Concen: 12.391 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

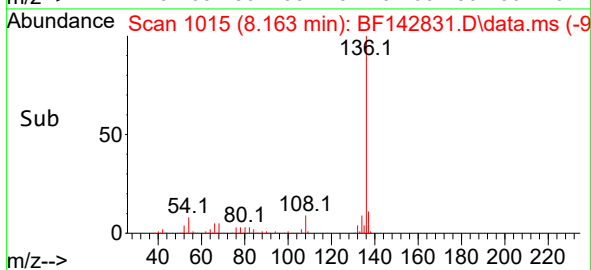
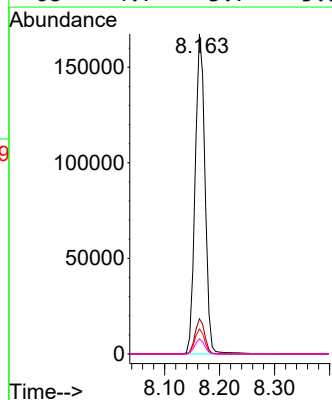
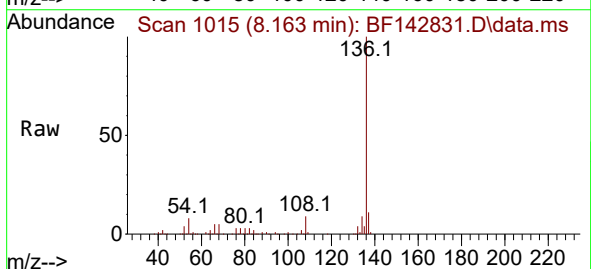
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

Tgt Ion: 99 Resp: 51425
Ion Ratio Lower Upper
99 100
42 20.2 15.9 23.9
71 35.0 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion: 136 Resp: 208142
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 7.8 6.3 9.5
68 4.7 3.7 5.5





#23

Nitrobenzene-d5

Concen: 7.274 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.005 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

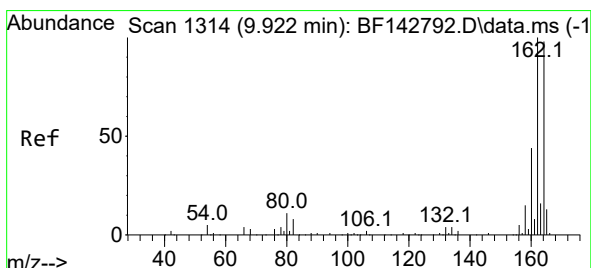
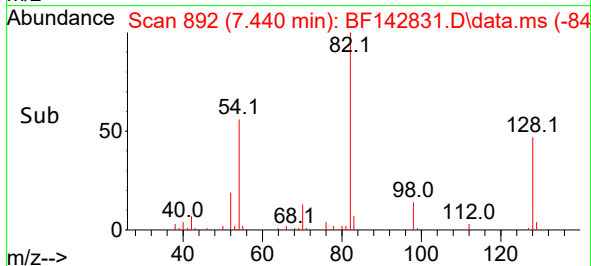
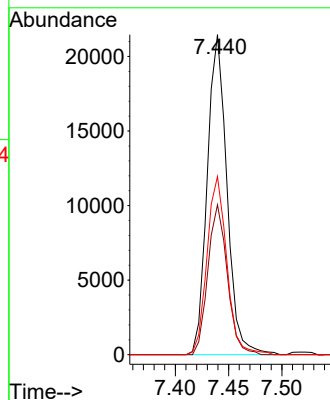
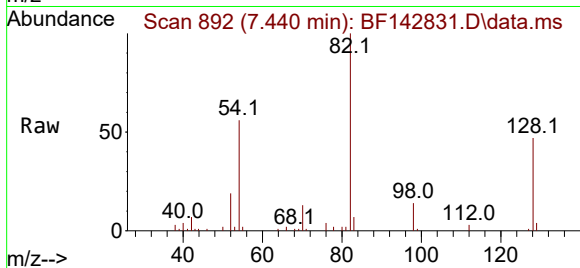
Tgt Ion: 82 Resp: 27603

Ion Ratio Lower Upper

82 100

128 46.8 37.7 56.5

54 55.7 45.7 68.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

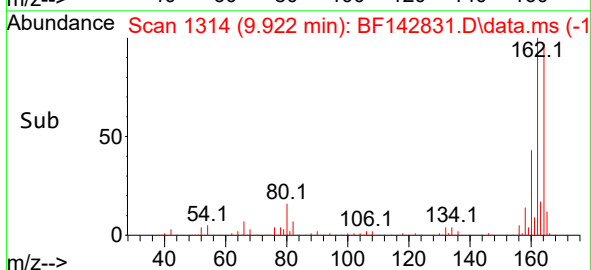
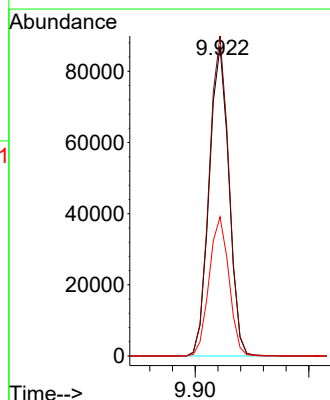
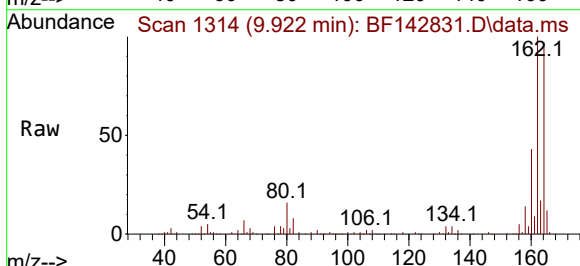
Tgt Ion:164 Resp: 104476

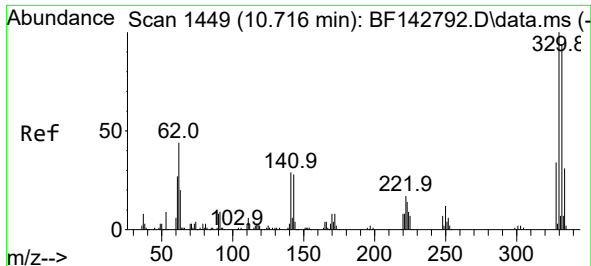
Ion Ratio Lower Upper

164 100

162 103.4 81.8 122.8

160 44.9 36.0 54.0

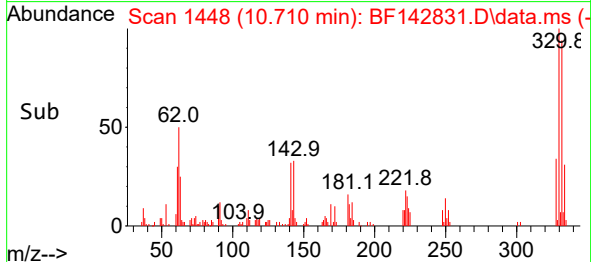
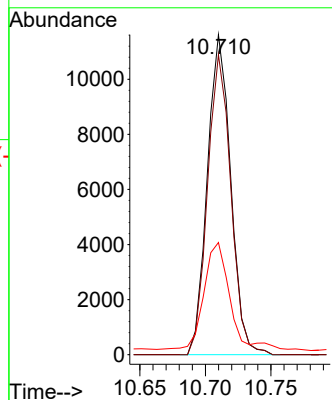
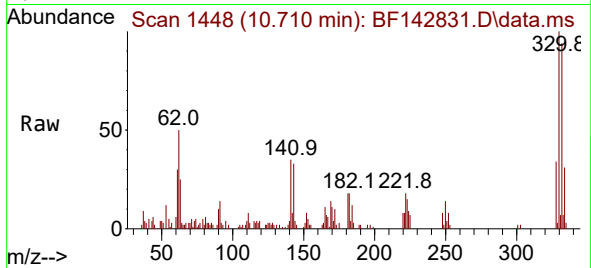




#42
2,4,6-Tribromophenol
Concen: 13.399 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

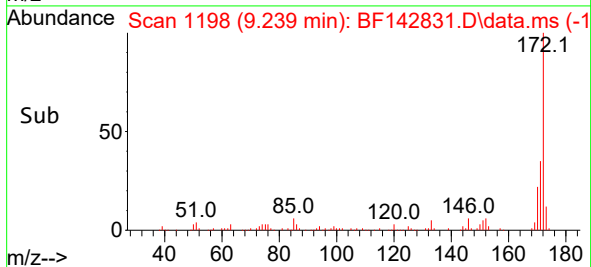
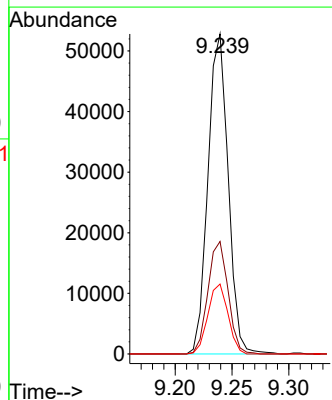
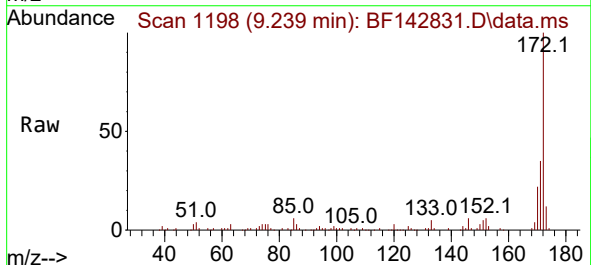
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

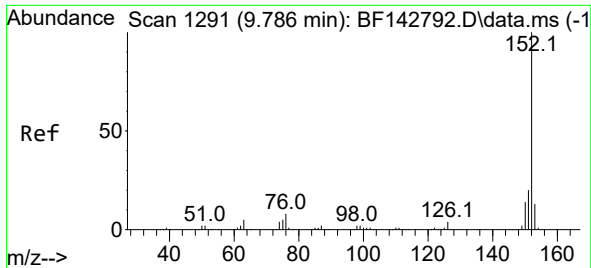
Tgt Ion: 330 Resp: 14406
Ion Ratio Lower Upper
330 100
332 93.7 75.0 112.6
141 38.1 25.3 37.9#



#45
2-Fluorobiphenyl
Concen: 8.216 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion: 172 Resp: 65340
Ion Ratio Lower Upper
172 100
171 35.1 28.2 42.4
170 21.9 18.5 27.7

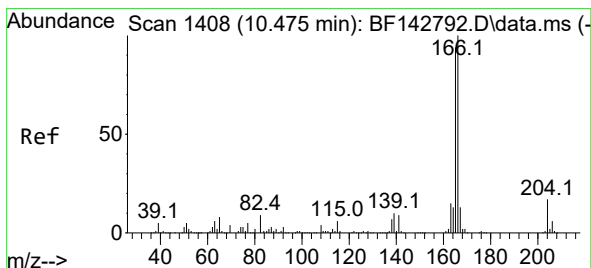
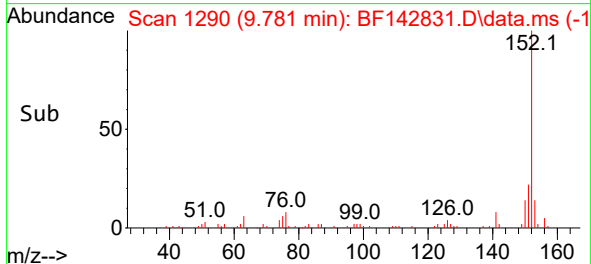
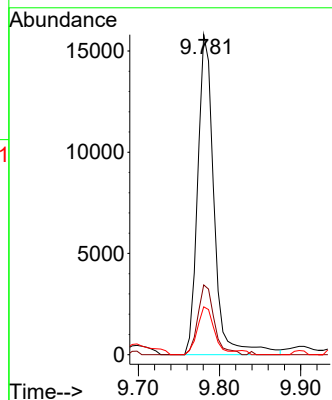
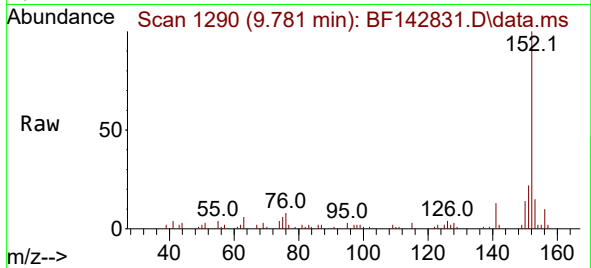




#49
Acenaphthylene
Concen: 2.178 ng
RT: 9.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

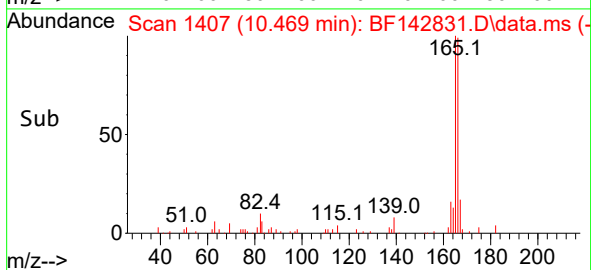
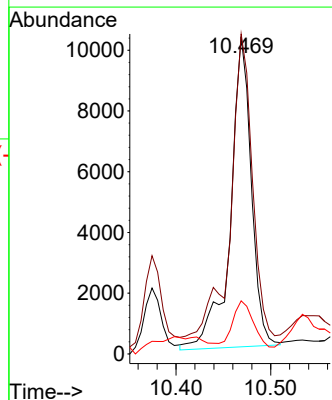
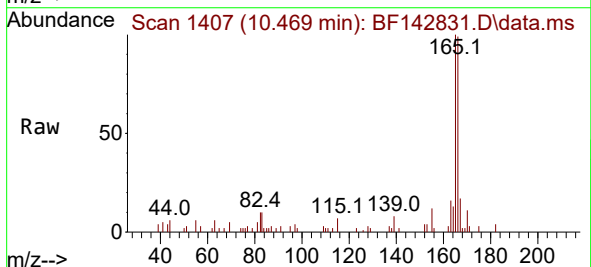
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

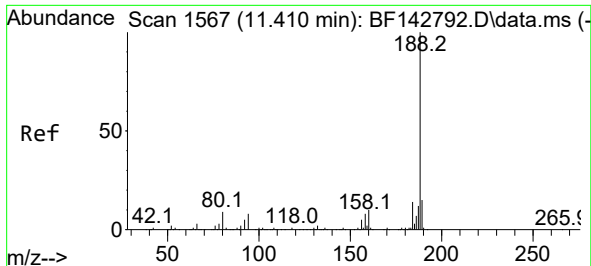
Tgt Ion:152 Resp: 22201
Ion Ratio Lower Upper
152 100
151 21.8 16.1 24.1
153 15.0 10.4 15.6



#58
Fluorene
Concen: 2.258 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion:166 Resp: 15732
Ion Ratio Lower Upper
166 100
165 100.8 75.2 112.8
167 16.7 10.6 15.8#

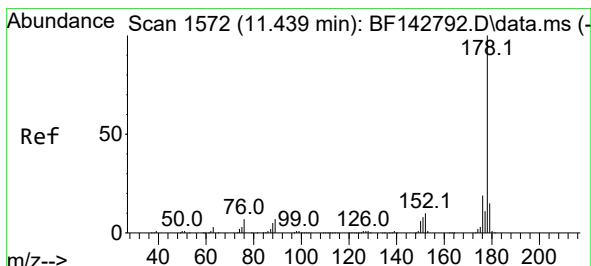
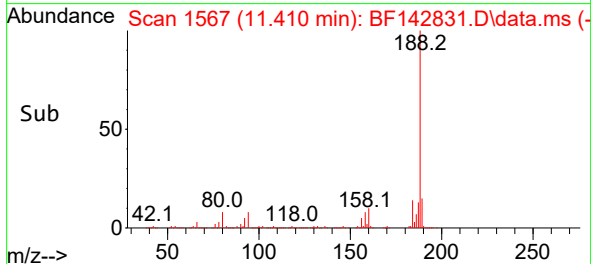
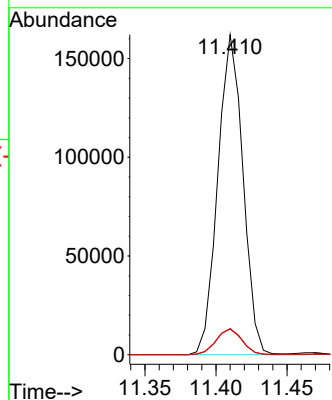
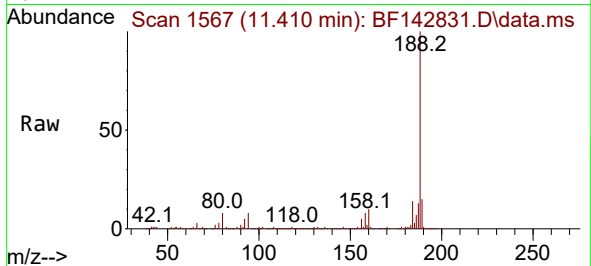




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

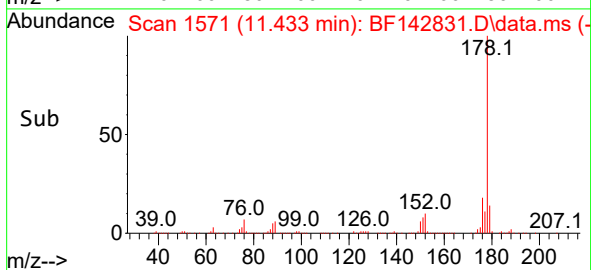
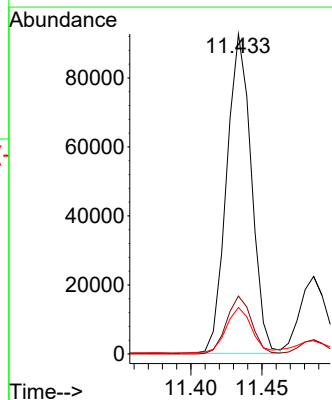
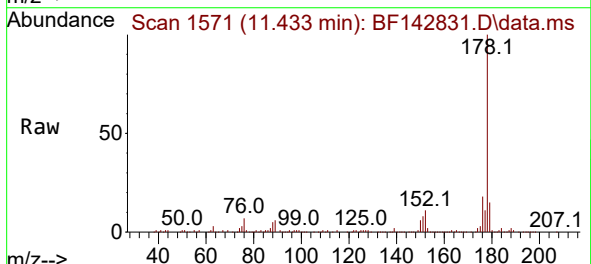
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

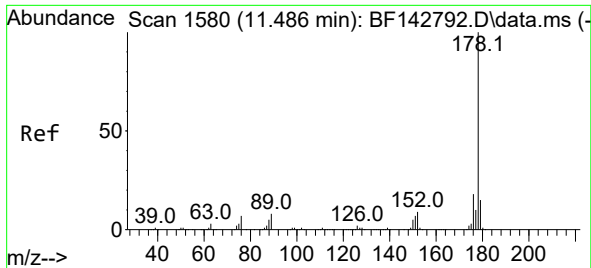
Tgt Ion:188 Resp: 199455
Ion Ratio Lower Upper
188 100
94 8.1 6.7 10.1
80 8.0 6.9 10.3



#71
Phenanthrene
Concen: 10.374 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion:178 Resp: 112089
Ion Ratio Lower Upper
178 100
176 18.1 15.1 22.7
179 14.6 12.0 18.0

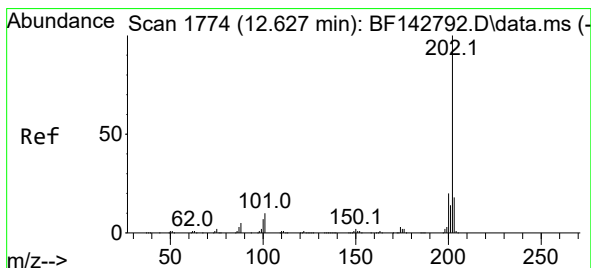
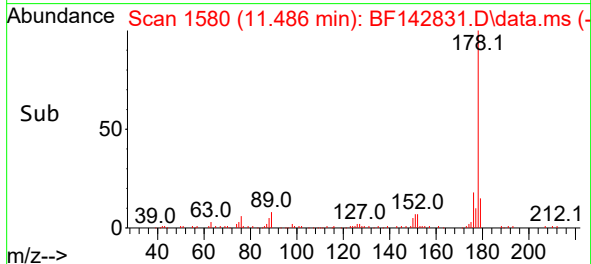
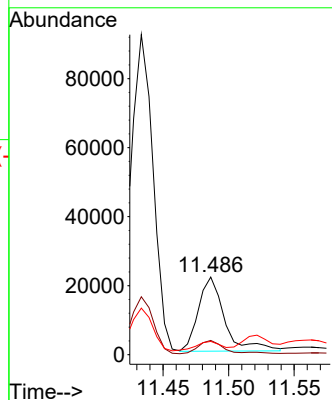
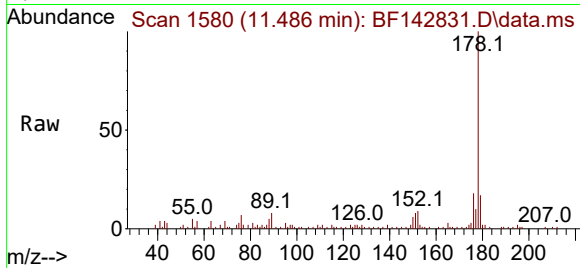




#72
 Anthracene
 Concen: 2.710 ng
 RT: 11.486 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF142831.D
 Acq: 24 Jun 2025 21:08

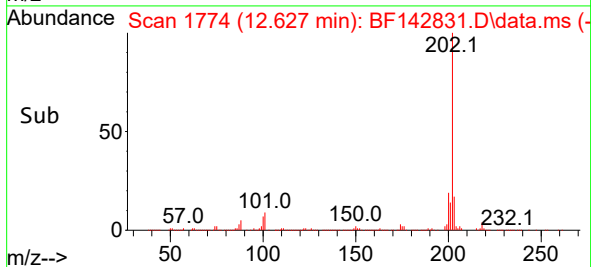
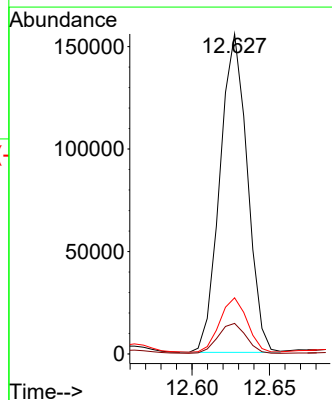
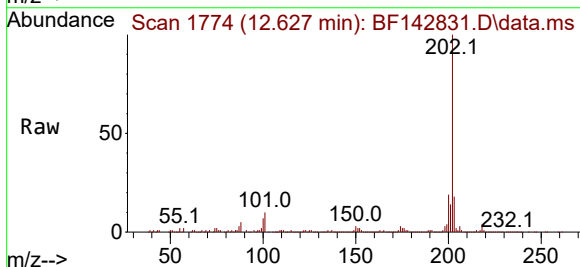
Instrument :
 BNA_F
 ClientSampleId :
 OK-01-6202025

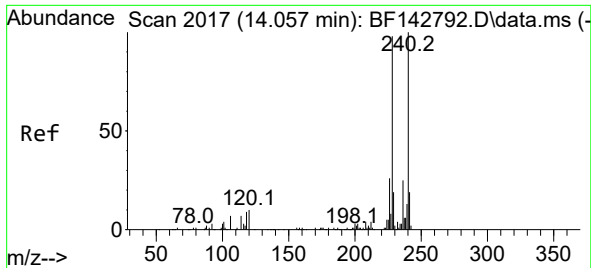
Tgt Ion:178 Resp: 30030
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.6 21.8
 179 17.1 12.4 18.6



#75
 Fluoranthene
 Concen: 18.642 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: BF142831.D
 Acq: 24 Jun 2025 21:08

Tgt Ion:202 Resp: 191154
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 29.7
 203 17.6 0.0 37.5

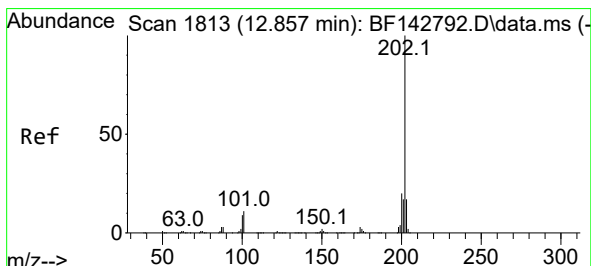
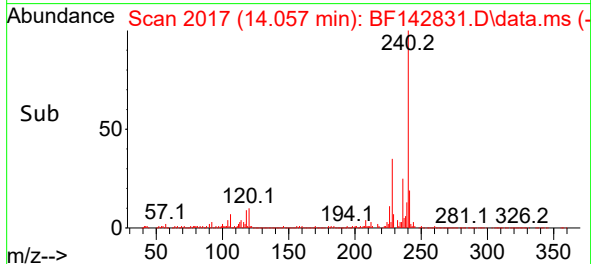
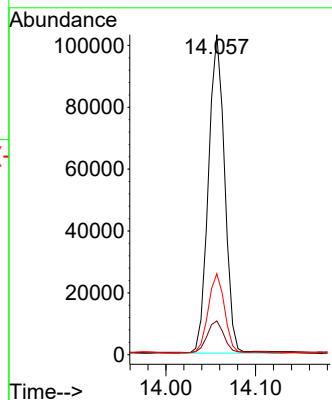
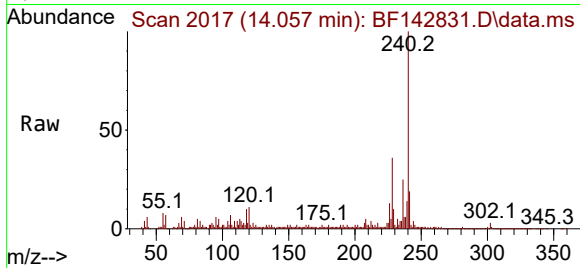




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

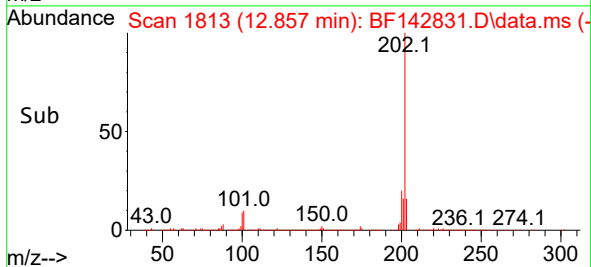
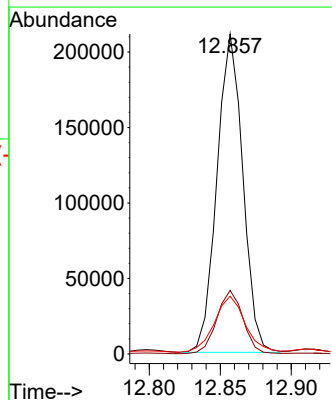
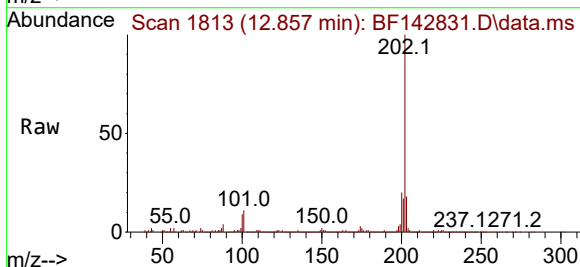
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

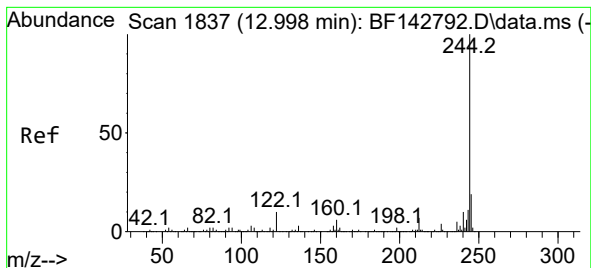
Tgt Ion:240 Resp: 128963
Ion Ratio Lower Upper
240 100
120 10.5 8.2 12.2
236 25.3 19.8 29.8



#78
Pyrene
Concen: 22.078 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion:202 Resp: 266880
Ion Ratio Lower Upper
202 100
200 19.9 15.7 23.5
203 18.1 13.8 20.6





#79

Terphenyl-d14

Concen: 8.767 ng

RT: 12.992 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

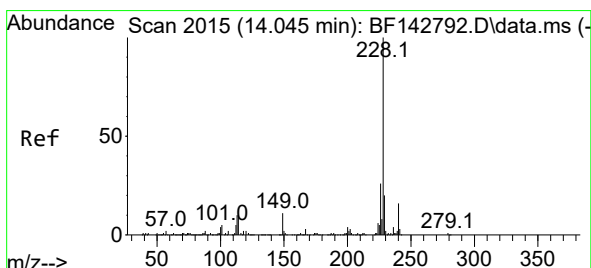
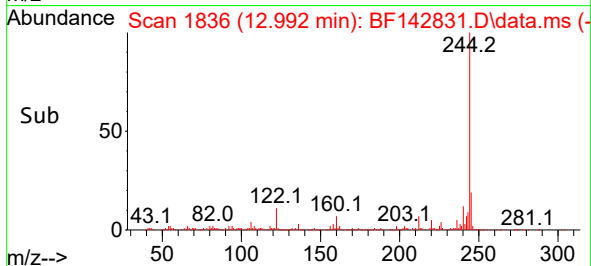
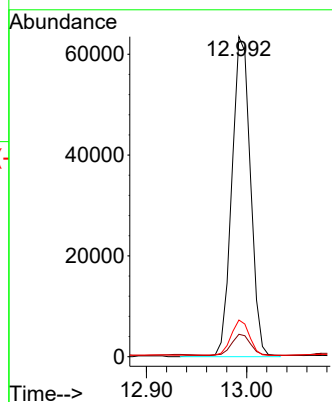
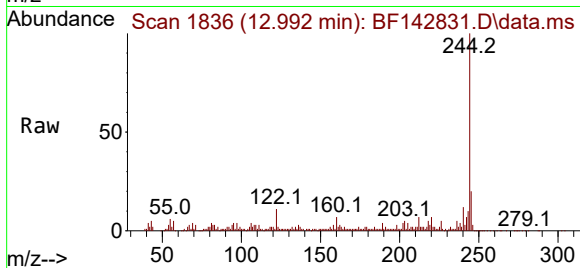
Tgt Ion:244 Resp: 81826

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

122 11.5 8.2 12.2



#81

Benzo(a)anthracene

Concen: 10.824 ng

RT: 14.045 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

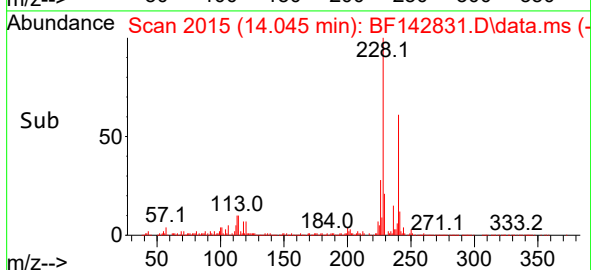
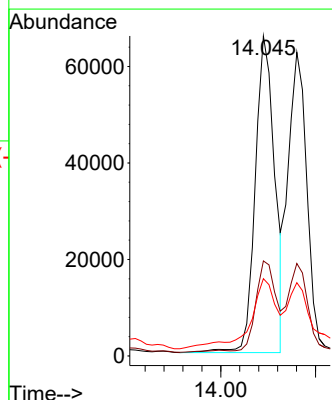
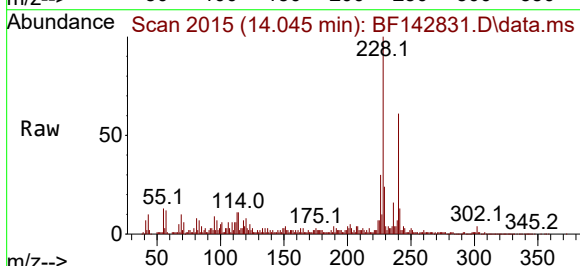
Tgt Ion:228 Resp: 94165

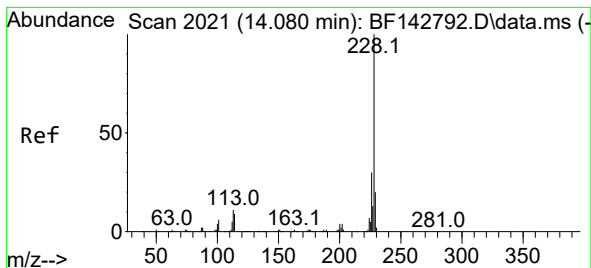
Ion Ratio Lower Upper

228 100

226 29.7 21.2 31.8

229 24.2 15.6 23.4#





#83

Chrysene

Concen: 10.931 ng

RT: 14.080 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

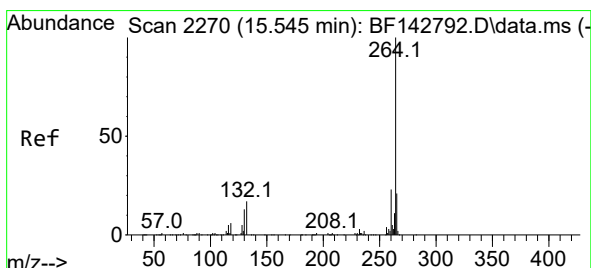
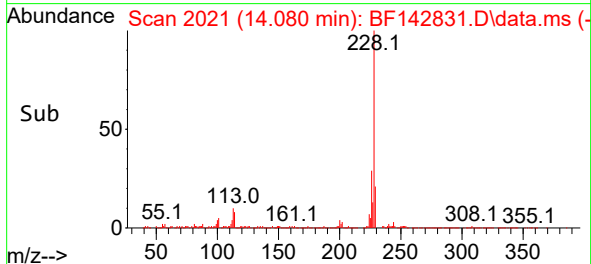
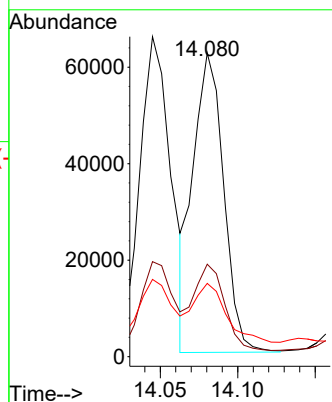
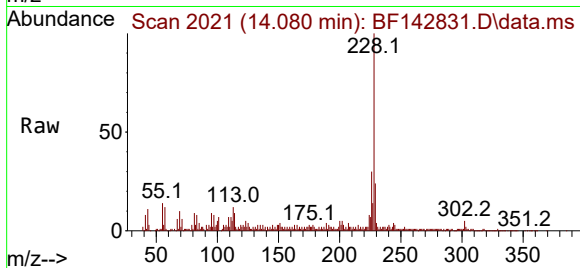
Tgt Ion:228 Resp: 84858

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 24.1 15.7 23.5#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. 0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

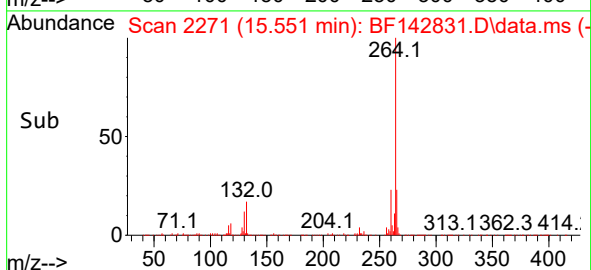
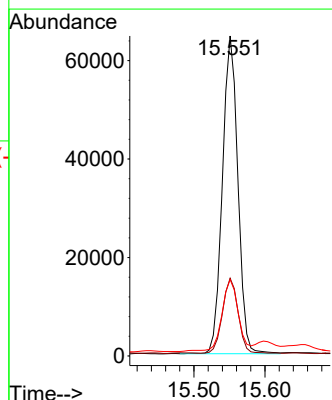
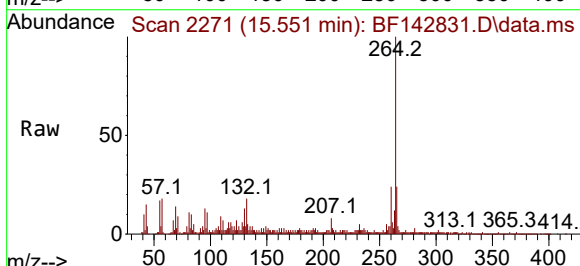
Tgt Ion:264 Resp: 97400

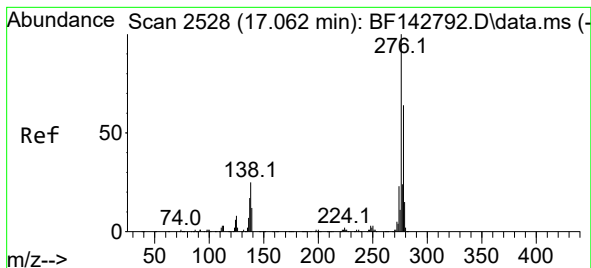
Ion Ratio Lower Upper

264 100

260 24.3 18.1 27.1

265 23.9 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.337 ng

RT: 17.057 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

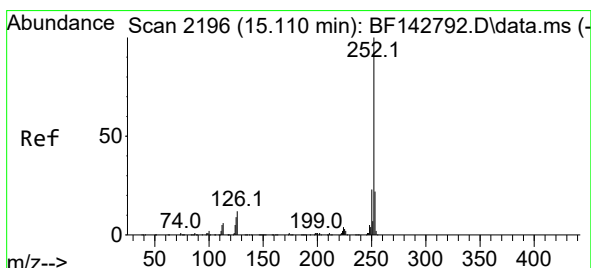
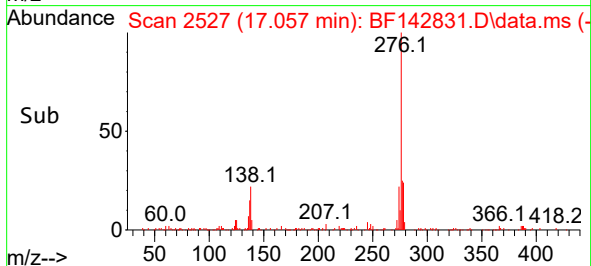
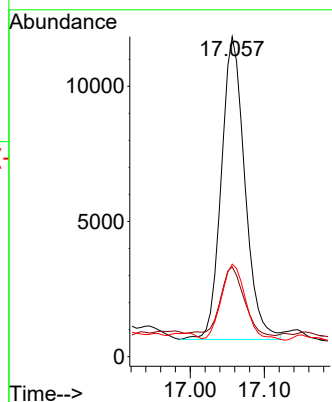
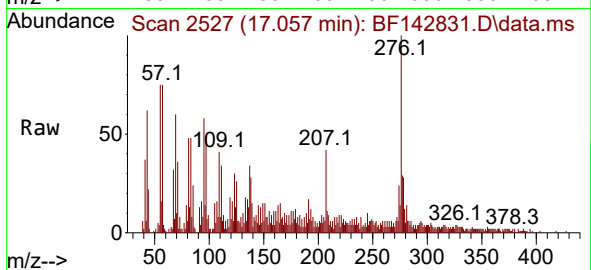
Tgt Ion:276 Resp: 24754

Ion Ratio Lower Upper

276 100

138 22.7 20.2 30.4

277 25.7 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 10.634 ng m

RT: 15.116 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

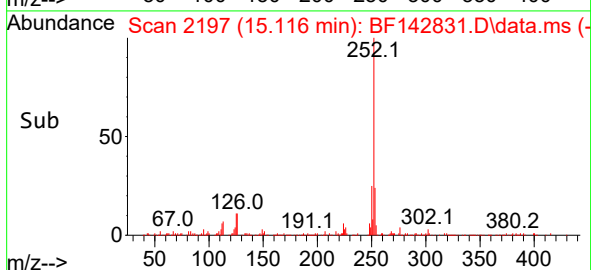
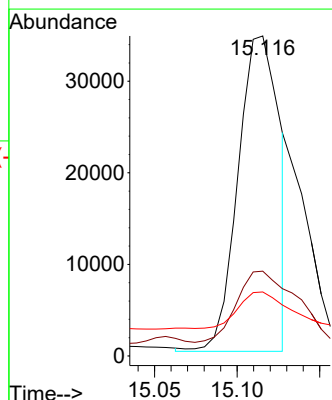
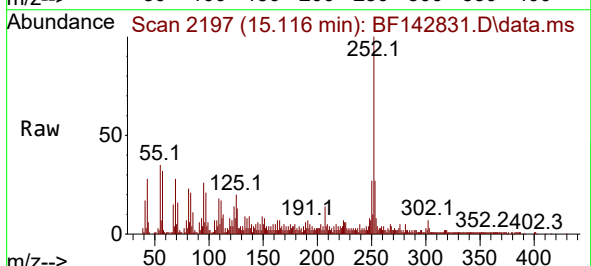
Tgt Ion:252 Resp: 59933

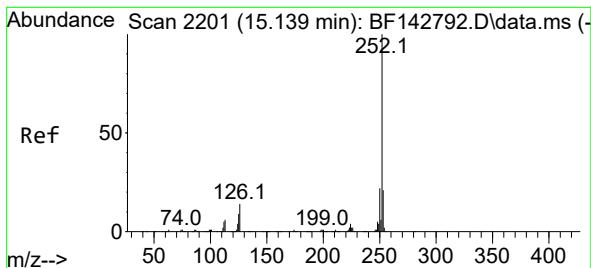
Ion Ratio Lower Upper

252 100

253 26.5 17.5 26.3#

125 20.0 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 3.905 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

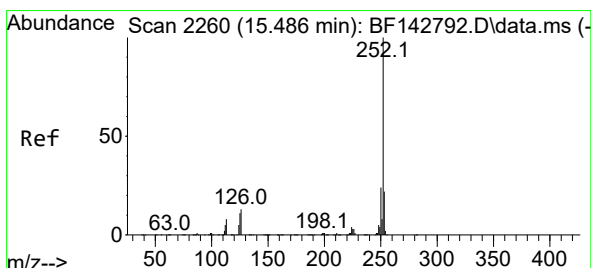
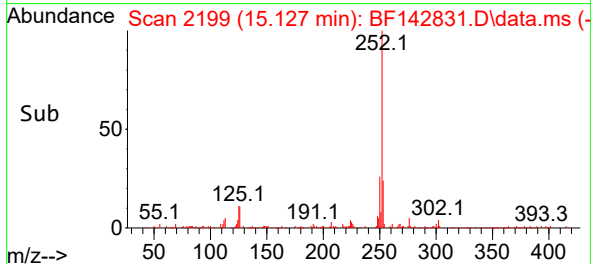
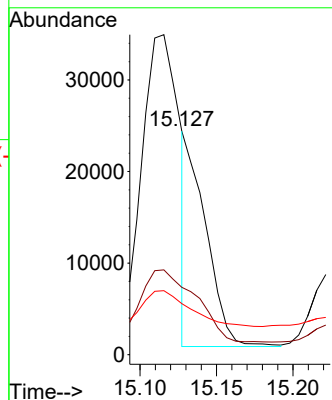
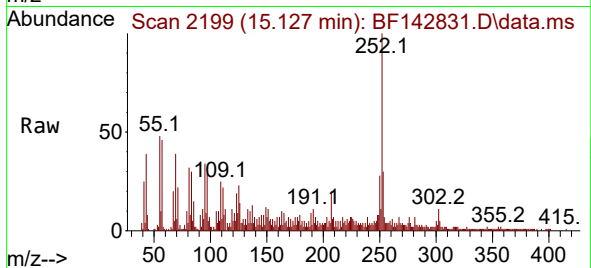
Tgt Ion:252 Resp: 20590

Ion Ratio Lower Upper

252 100

253 30.1 17.2 25.8#

125 22.9 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 10.272 ng

RT: 15.486 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

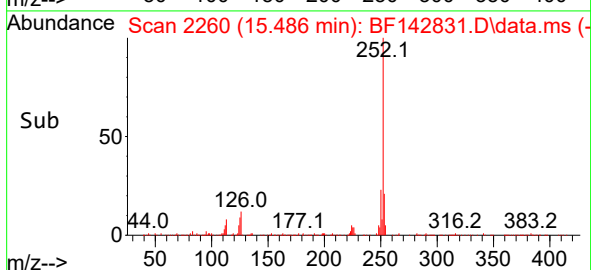
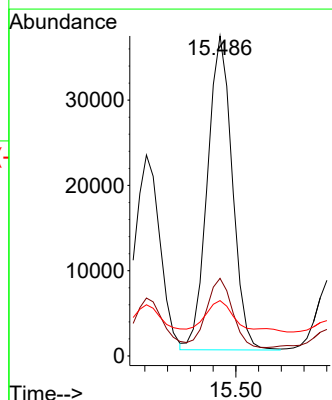
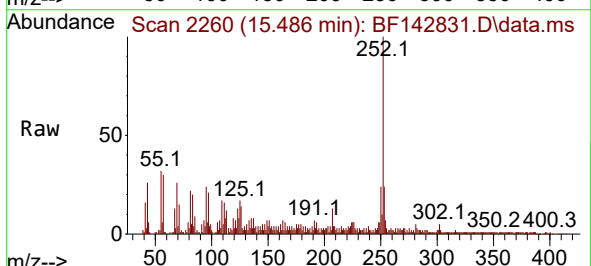
Tgt Ion:252 Resp: 55929

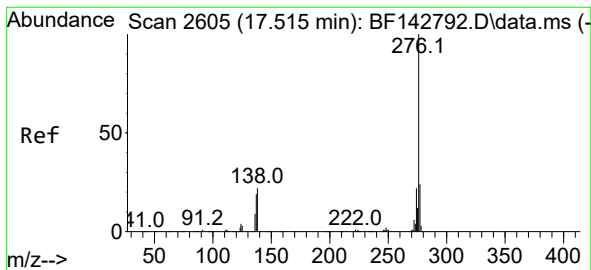
Ion Ratio Lower Upper

252 100

253 24.3 17.5 26.3

125 17.3 8.6 12.8#





#92

Benzo(g,h,i)perylene

Concen: 4.478 ng

RT: 17.515 min Scan# 2

Delta R.T. 0.000 min

Lab File: BF142831.D

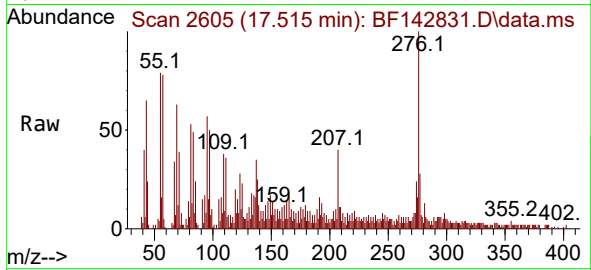
Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025



Tgt Ion:276 Resp: 26919

Ion Ratio Lower Upper

276 100

277 28.5 18.8 28.2#

138 25.1 17.6 26.4

