

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070225\
 Data File : BF142981.D
 Acq On : 02 Jul 2025 20:22
 Operator : RC/JU
 Sample : Q2475-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

Quant Time: Jul 03 01:08:44 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)

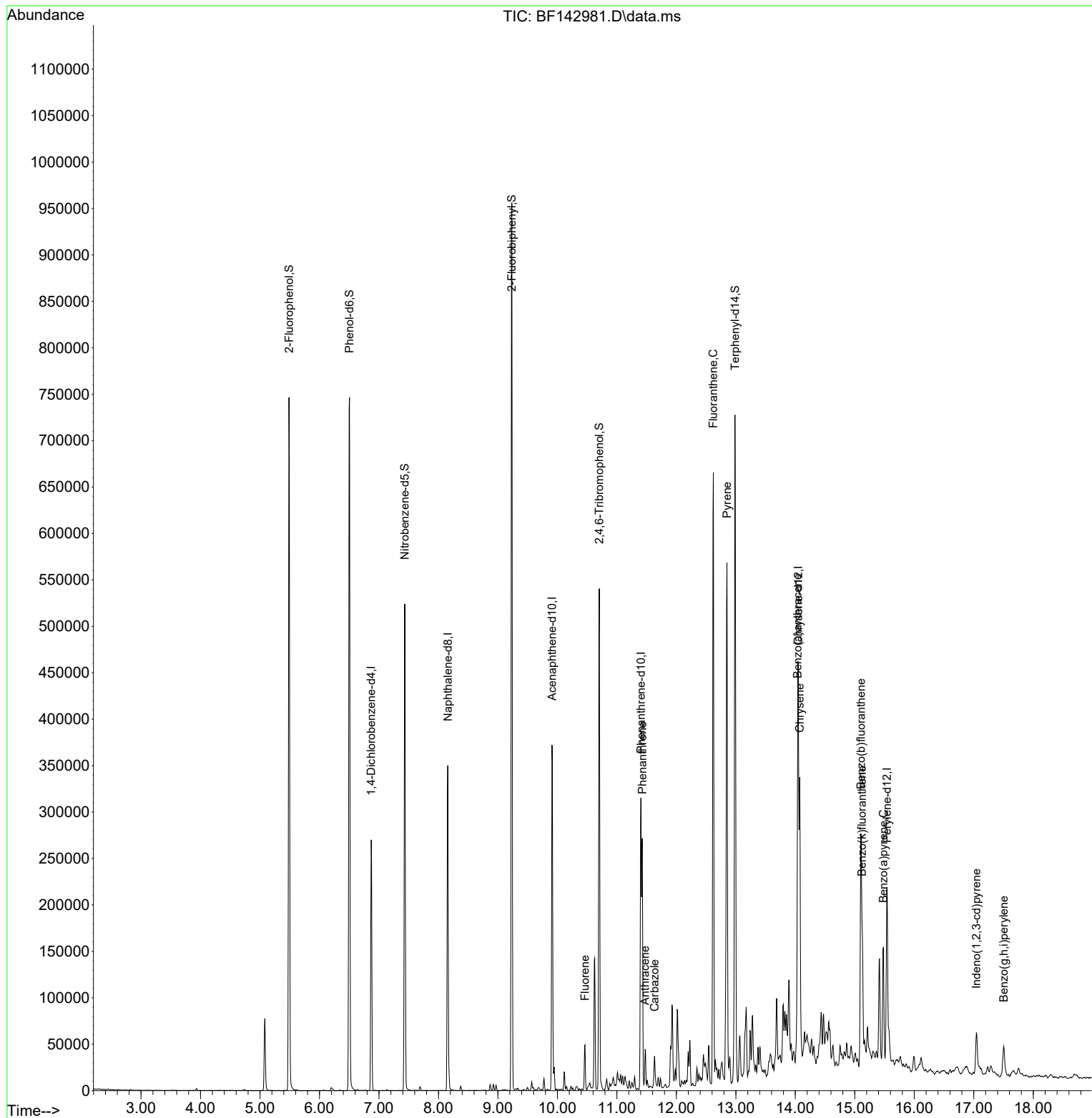
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	60070	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	223029	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	114131	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	162227	20.000	ng	0.00
76) Chrysene-d12	14.051	240	128994	20.000	ng	0.00
86) Perylene-d12	15.539	264	108225	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	291524	80.800	ng	0.00
7) Phenol-d6	6.504	99	356144	83.667	ng	0.00
23) Nitrobenzene-d5	7.433	82	218363	53.703	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	89591	76.281	ng	-0.01
45) 2-Fluorobiphenyl	9.233	172	437761	50.387	ng	-0.01
79) Terphenyl-d14	12.986	244	343091	36.750	ng	-0.01
Target Compounds						
						Qvalue
58) Fluorene	10.463	166	21262	2.794	ng	99
71) Phenanthrene	11.427	178	145923	16.605	ng	100
72) Anthracene	11.474	178	23332	2.589	ng	98
73) Carbazole	11.633	167	17386	2.235	ng	100
75) Fluoranthene	12.621	202	386249	46.312	ng	99
78) Pyrene	12.851	202	327541	27.089	ng	99
81) Benzo(a)anthracene	14.039	228	133643	15.358	ng	96
83) Chrysene	14.074	228	154194	19.858	ng	98
87) Indeno(1,2,3-cd)pyrene	17.045	276	34035	4.129	ng	95
88) Benzo(b)fluoranthene	15.104	252	165300m	26.396	ng	
89) Benzo(k)fluoranthene	15.121	252	49107m	8.382	ng	
90) Benzo(a)pyrene	15.480	252	74236	12.271	ng	99
92) Benzo(g,h,i)perylene	17.503	276	30772	4.607	ng	97

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

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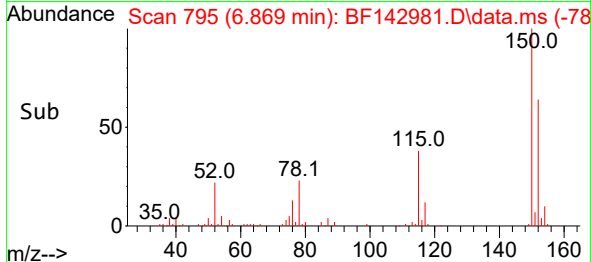
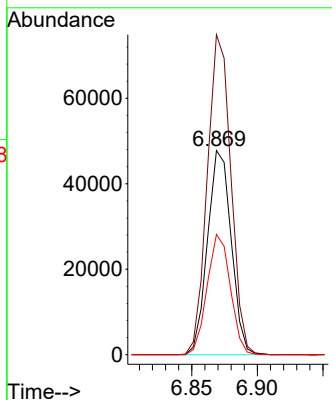
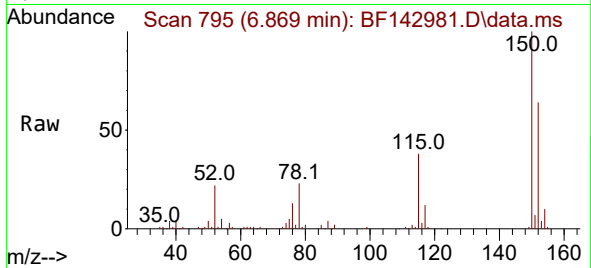




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

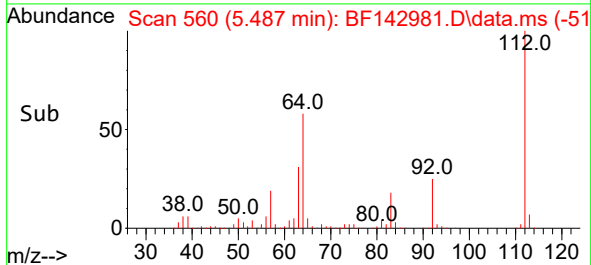
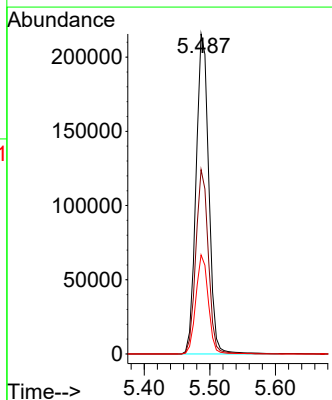
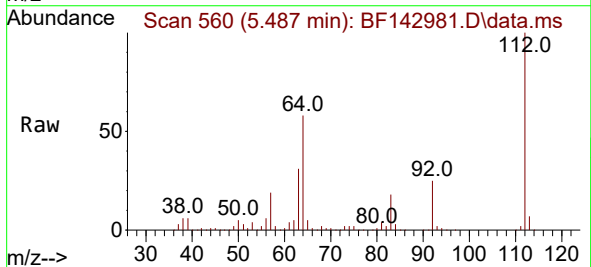
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

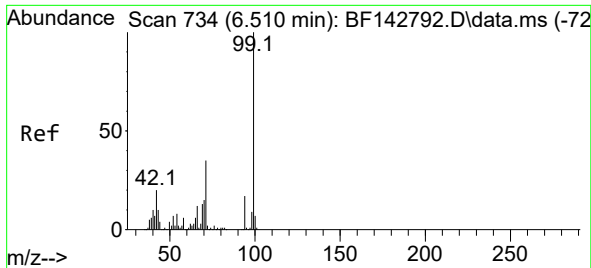
Tgt Ion:152 Resp: 60070
Ion Ratio Lower Upper
152 100
150 156.7 127.2 190.8
115 58.9 46.6 69.8



#5
2-Fluorophenol
Concen: 80.800 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.005 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:112 Resp: 291524
Ion Ratio Lower Upper
112 100
64 57.6 48.2 72.2
63 30.9 25.7 38.5

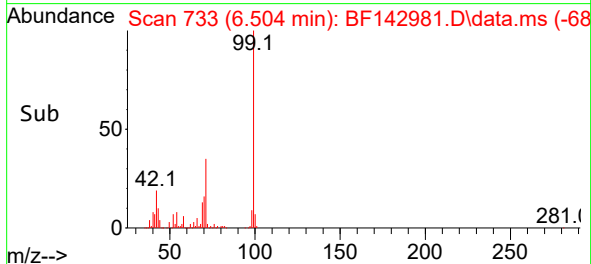
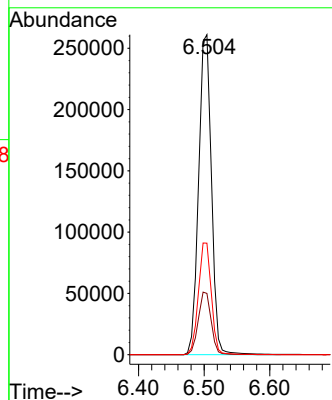
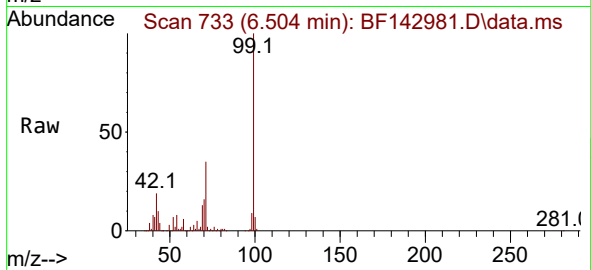




#7
Phenol-d6
Concen: 83.667 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

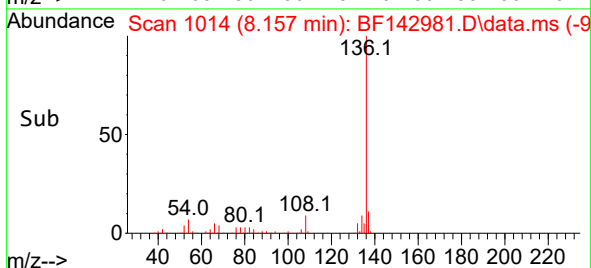
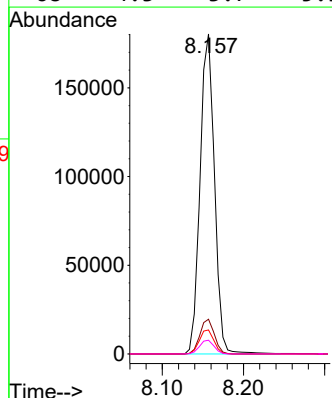
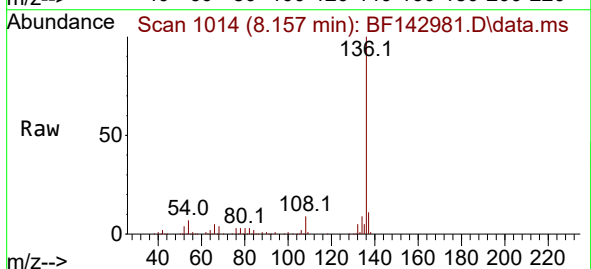
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

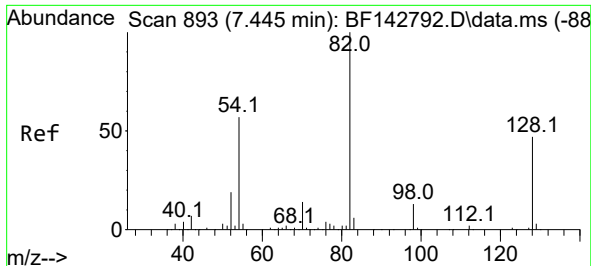
Tgt Ion: 99 Resp: 356144
Ion Ratio Lower Upper
99 100
42 19.1 15.9 23.9
71 34.9 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion: 136 Resp: 223029
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 7.5 6.3 9.5
68 4.3 3.7 5.5





#23

Nitrobenzene-d5

Concen: 53.703 ng

RT: 7.433 min Scan# 891

Delta R.T. -0.012 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

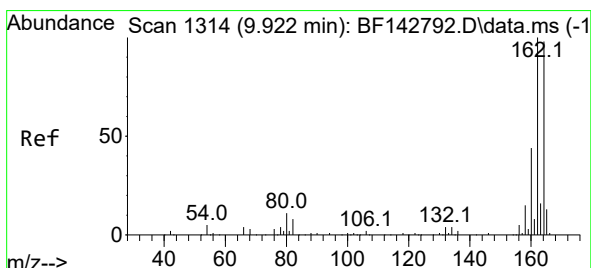
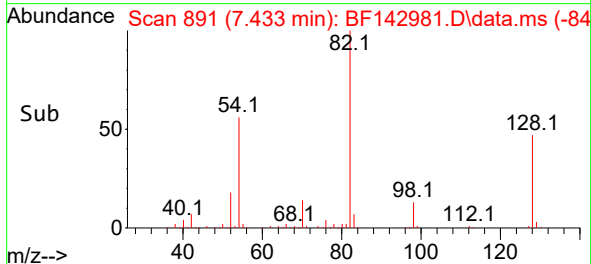
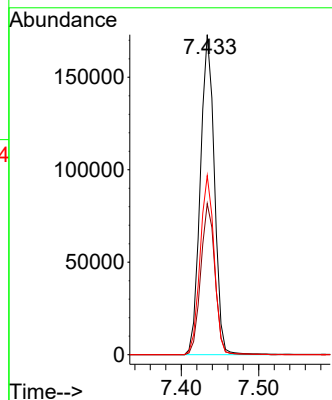
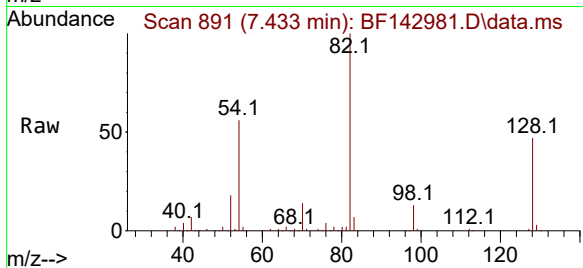
Tgt Ion: 82 Resp: 218363

Ion Ratio Lower Upper

82 100

128 47.2 37.7 56.5

54 55.9 45.7 68.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1312

Delta R.T. -0.012 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

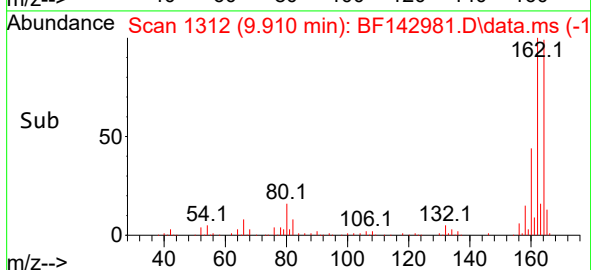
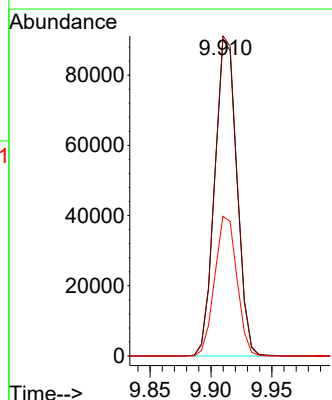
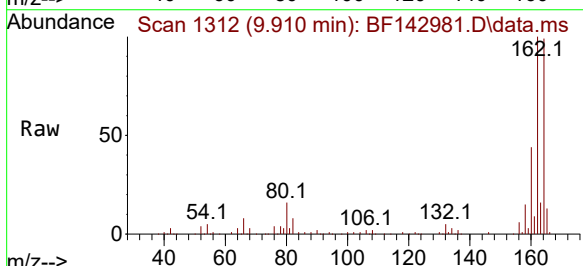
Tgt Ion:164 Resp: 114131

Ion Ratio Lower Upper

164 100

162 101.1 81.8 122.8

160 44.1 36.0 54.0

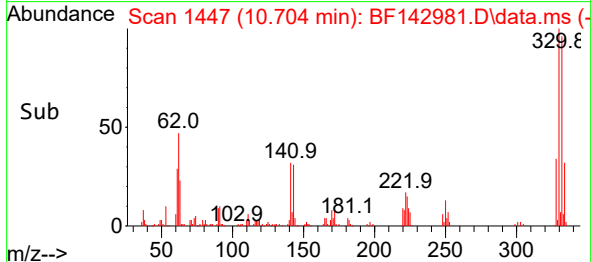
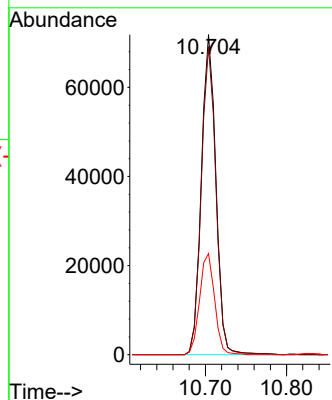
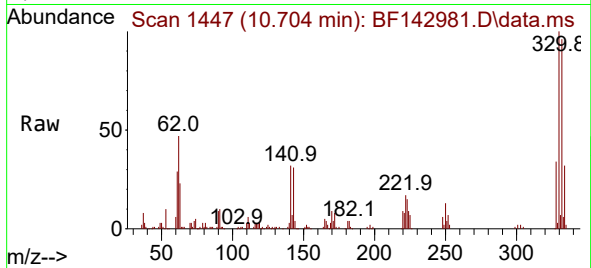




#42
2,4,6-Tribromophenol
Concen: 76.281 ng
RT: 10.704 min Scan# 1447
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

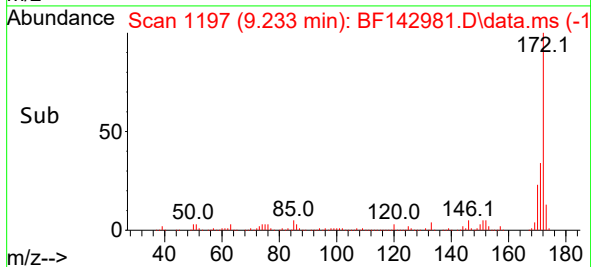
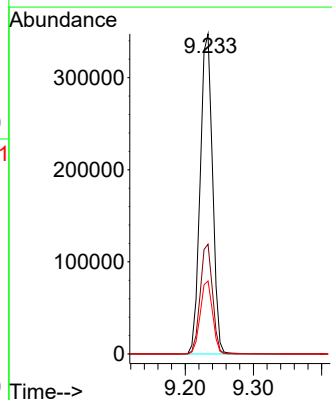
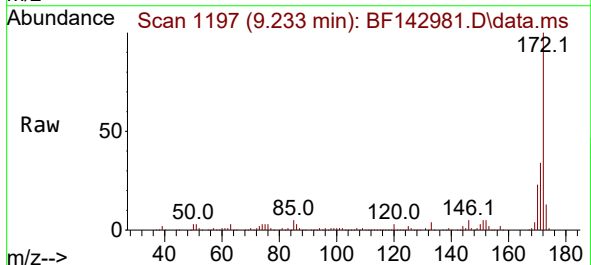
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

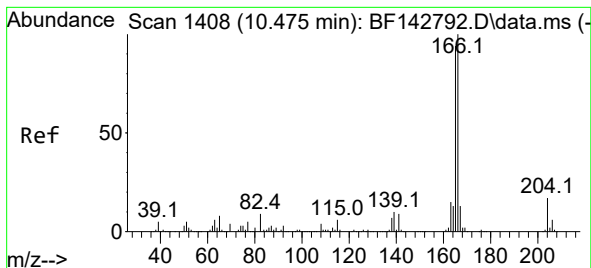
Tgt Ion:330 Resp: 89591
Ion Ratio Lower Upper
330 100
332 96.3 75.0 112.6
141 32.5 25.3 37.9



#45
2-Fluorobiphenyl
Concen: 50.387 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:172 Resp: 437761
Ion Ratio Lower Upper
172 100
171 34.3 28.2 42.4
170 22.8 18.5 27.7





#58

Fluorene

Concen: 2.794 ng

RT: 10.463 min Scan# 1406

Delta R.T. -0.012 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

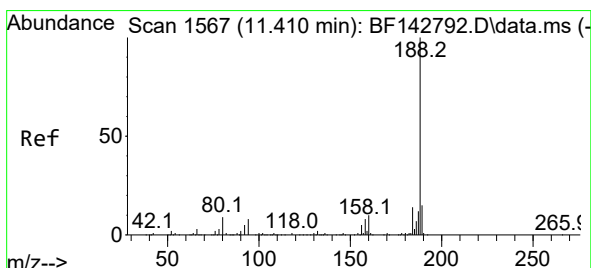
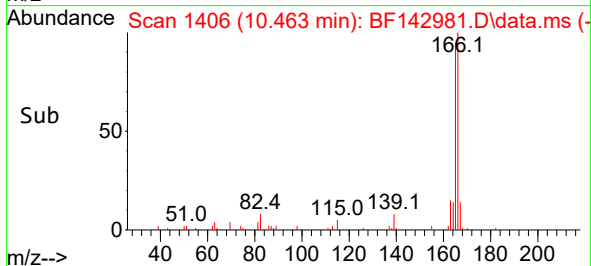
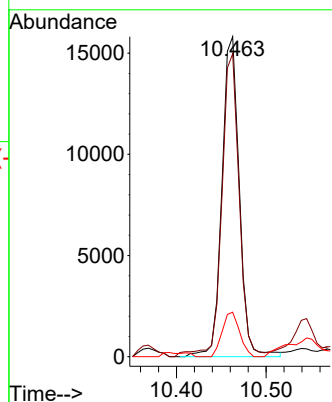
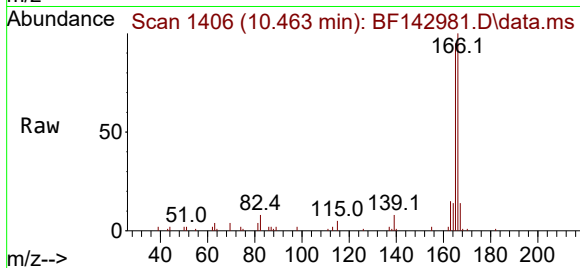
Tgt Ion:166 Resp: 21262

Ion Ratio Lower Upper

166 100

165 94.7 75.2 112.8

167 13.9 10.6 15.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1566

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

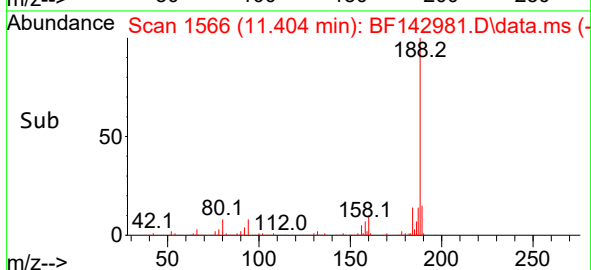
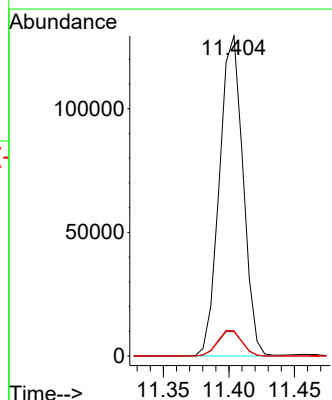
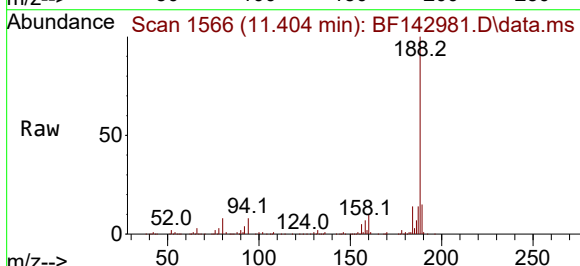
Tgt Ion:188 Resp: 162227

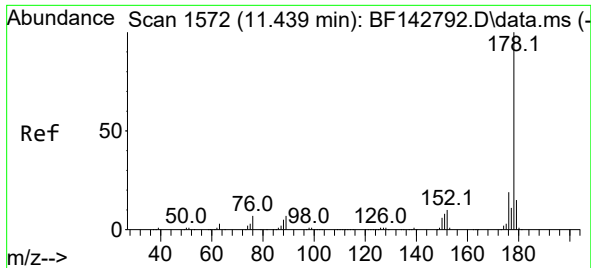
Ion Ratio Lower Upper

188 100

94 7.6 6.7 10.1

80 7.9 6.9 10.3

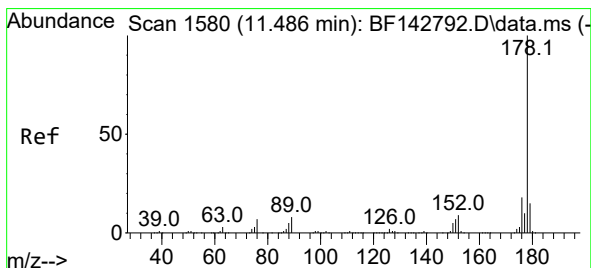
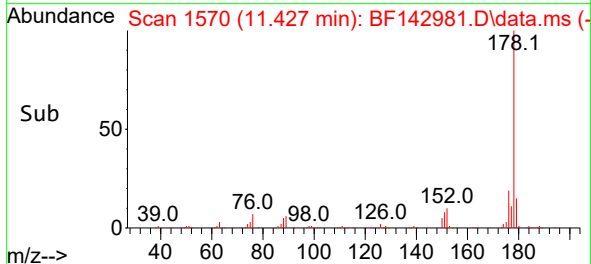
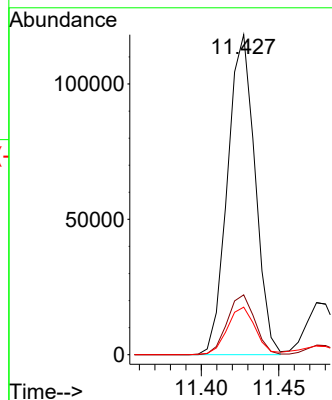
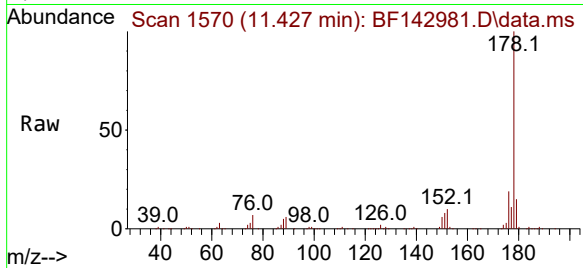




#71
Phenanthrene
Concen: 16.605 ng
RT: 11.427 min Scan# 1572
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

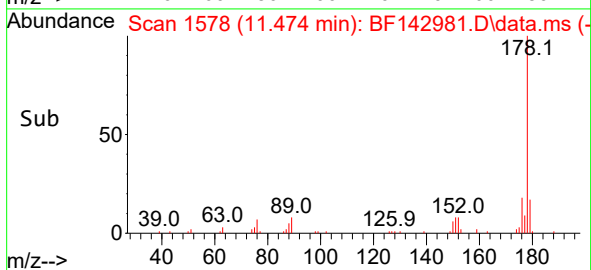
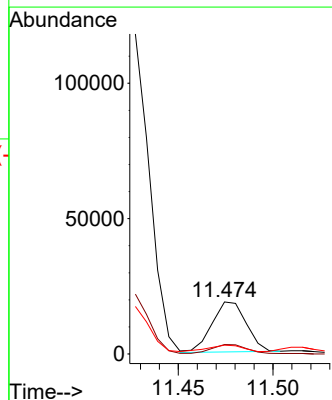
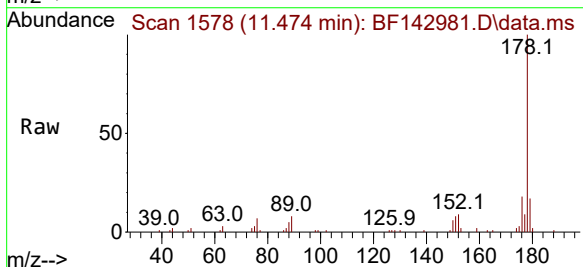
Instrument :
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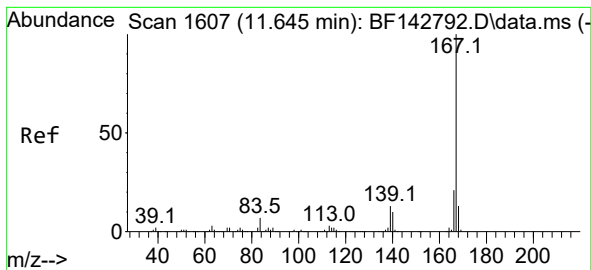
Tgt Ion:178 Resp: 145923
Ion Ratio Lower Upper
178 100
176 18.7 15.1 22.7
179 14.9 12.0 18.0



#72
Anthracene
Concen: 2.589 ng
RT: 11.474 min Scan# 1578
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:178 Resp: 23332
Ion Ratio Lower Upper
178 100
176 18.1 14.6 21.8
179 16.9 12.4 18.6





#73

Carbazole

Concen: 2.235 ng

RT: 11.633 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

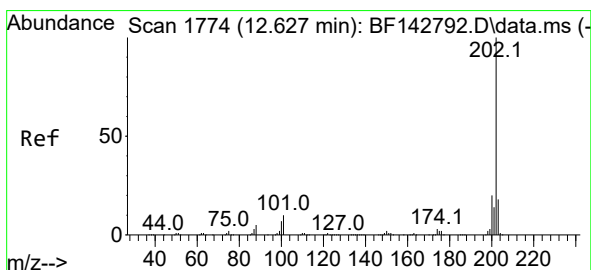
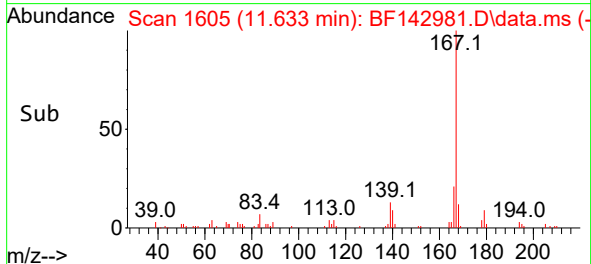
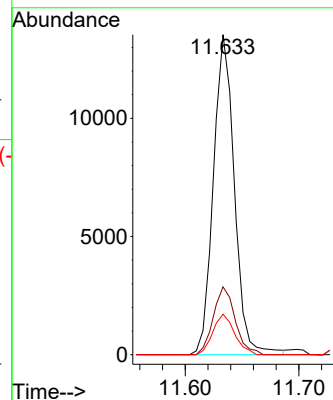
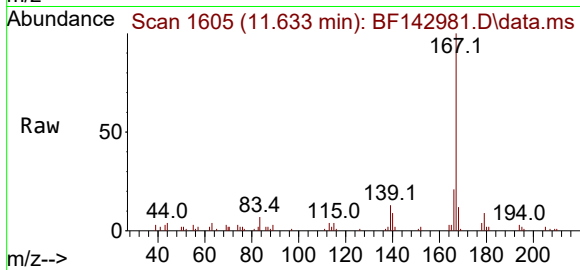
Tgt Ion:167 Resp: 17386

Ion Ratio Lower Upper

167 100

166 21.2 17.0 25.4

139 12.7 10.2 15.2



#75

Fluoranthene

Concen: 46.312 ng

RT: 12.621 min Scan# 1773

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

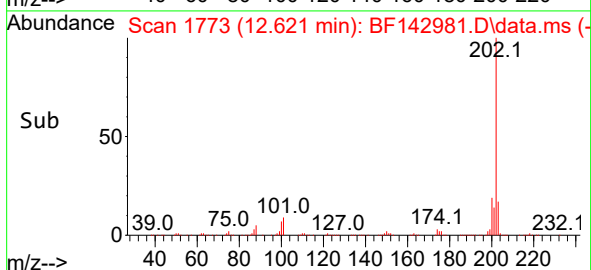
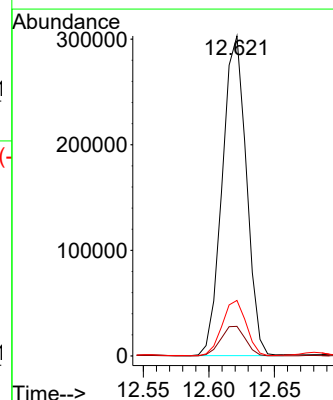
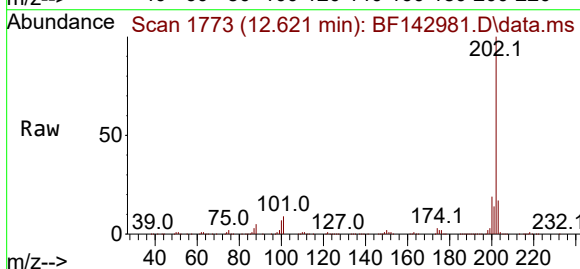
Tgt Ion:202 Resp: 386249

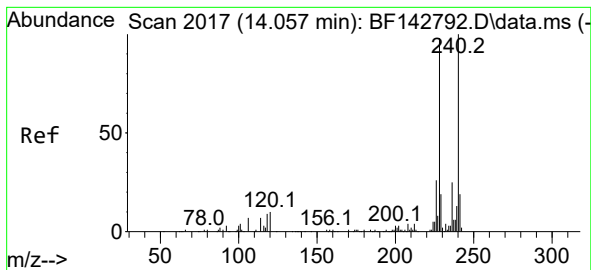
Ion Ratio Lower Upper

202 100

101 9.3 0.0 29.7

203 17.4 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

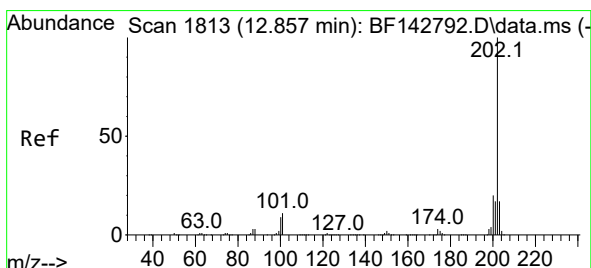
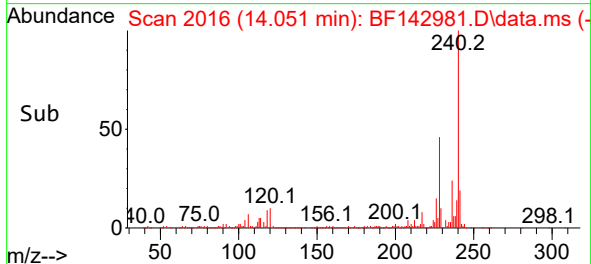
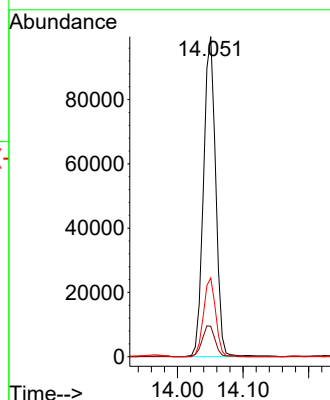
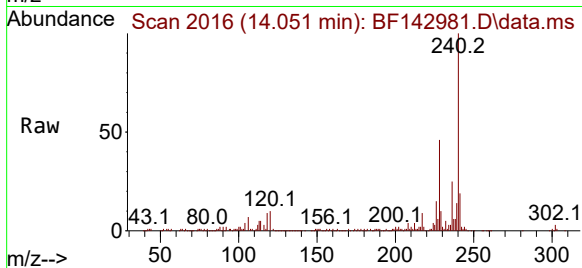
Tgt Ion:240 Resp: 128994

Ion Ratio Lower Upper

240 100

120 9.5 8.2 12.2

236 24.6 19.8 29.8



#78

Pyrene

Concen: 27.089 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

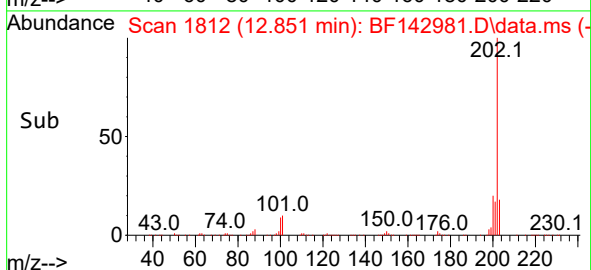
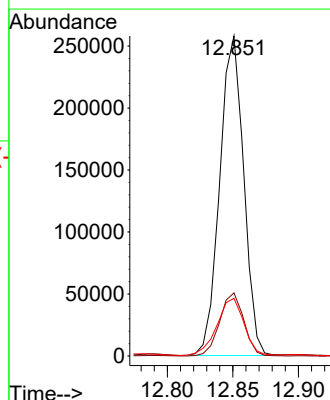
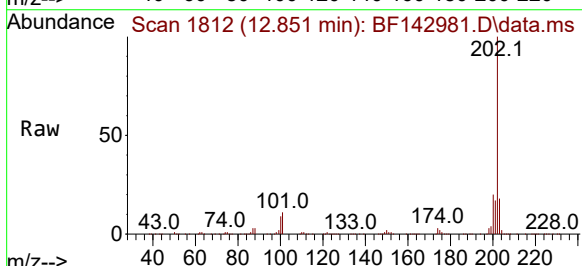
Tgt Ion:202 Resp: 327541

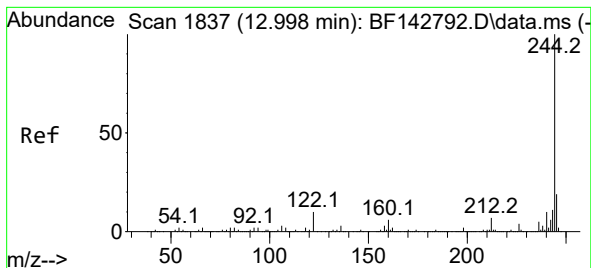
Ion Ratio Lower Upper

202 100

200 19.7 15.7 23.5

203 18.0 13.8 20.6





#79

Terphenyl-d14

Concen: 36.750 ng

RT: 12.986 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

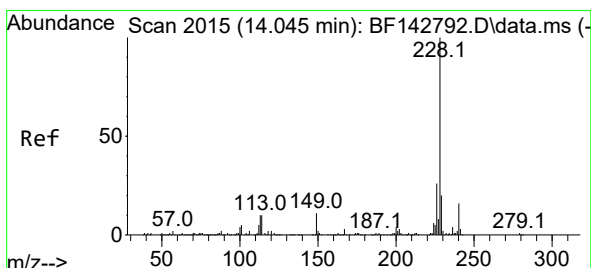
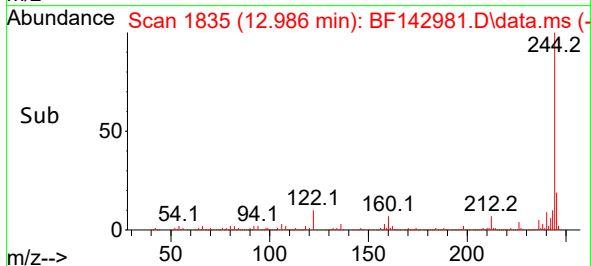
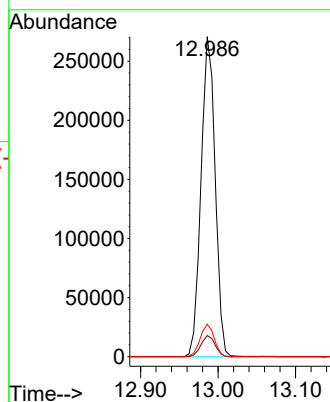
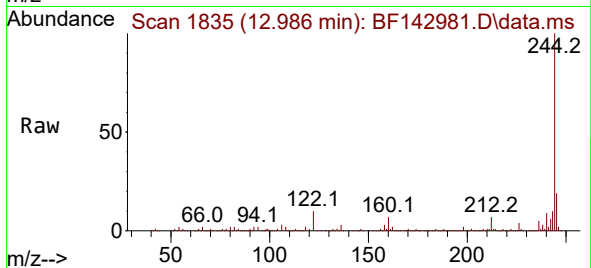
Tgt Ion:244 Resp: 343091

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 10.2 8.2 12.2



#81

Benzo(a)anthracene

Concen: 15.358 ng

RT: 14.039 min Scan# 2014

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

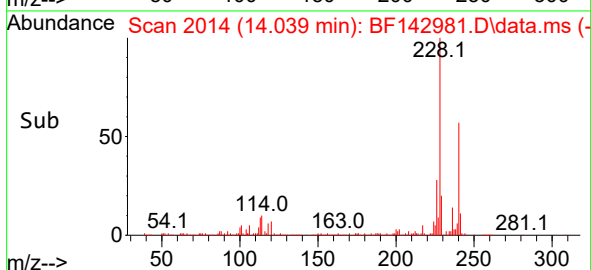
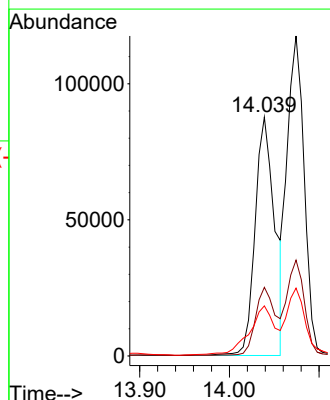
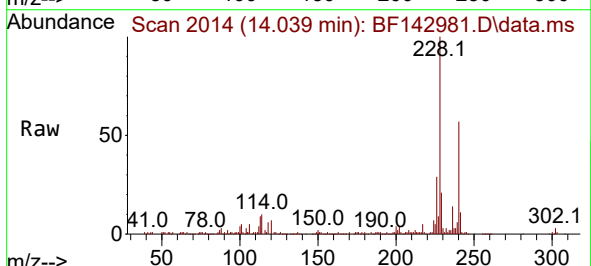
Tgt Ion:228 Resp: 133643

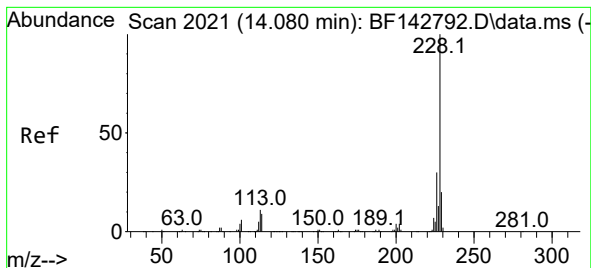
Ion Ratio Lower Upper

228 100

226 28.7 21.2 31.8

229 21.0 15.6 23.4





#83

Chrysene

Concen: 19.858 ng

RT: 14.074 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

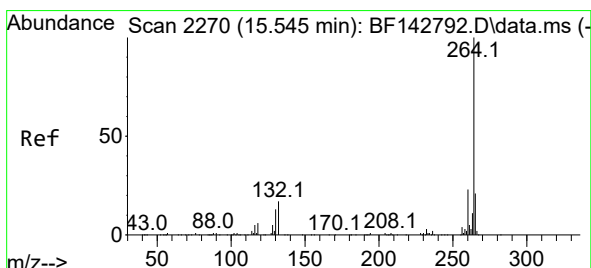
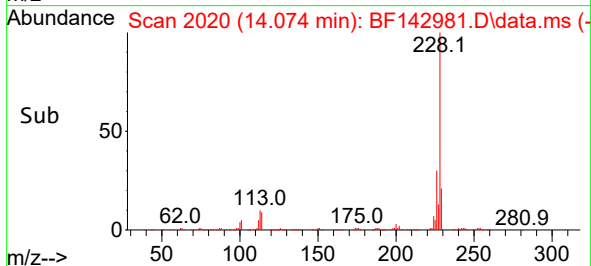
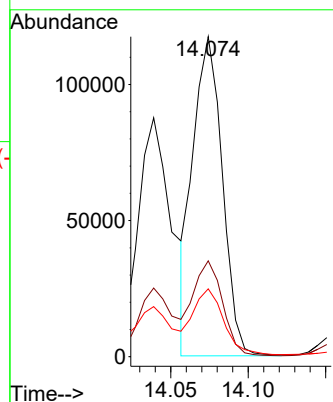
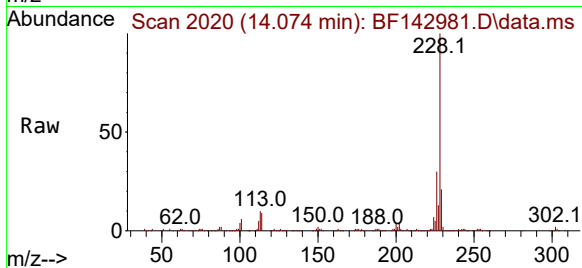
Tgt Ion:228 Resp: 154194

Ion Ratio Lower Upper

228 100

226 29.9 23.7 35.5

229 21.2 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

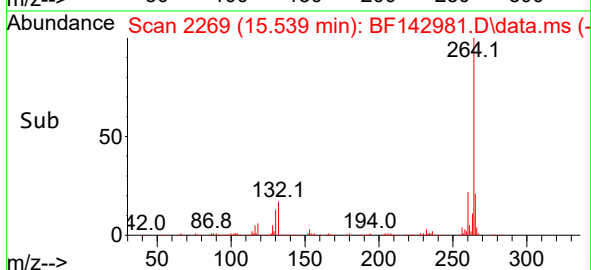
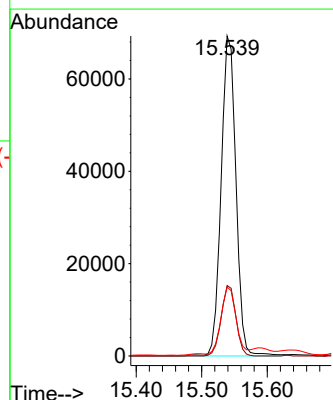
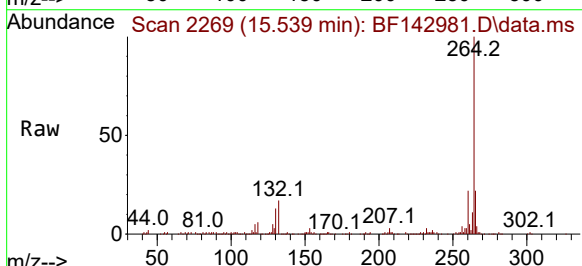
Tgt Ion:264 Resp: 108225

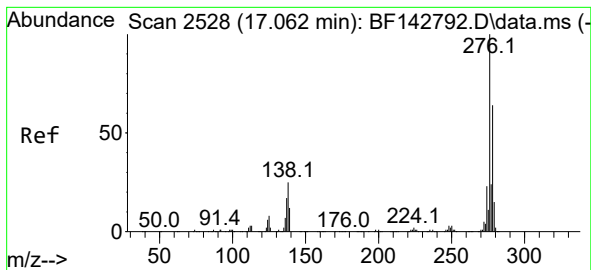
Ion Ratio Lower Upper

264 100

260 22.0 18.1 27.1

265 21.5 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.129 ng

RT: 17.045 min Scan# 2195

Delta R.T. -0.018 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

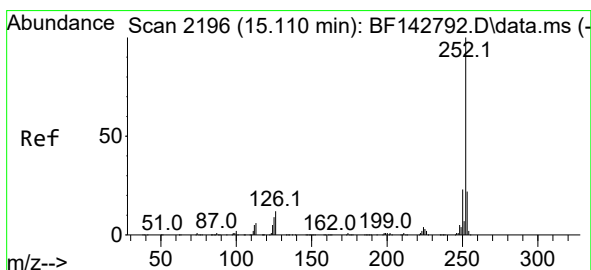
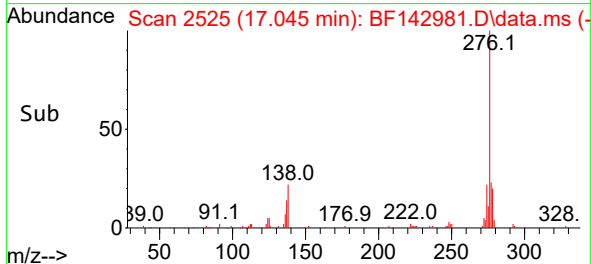
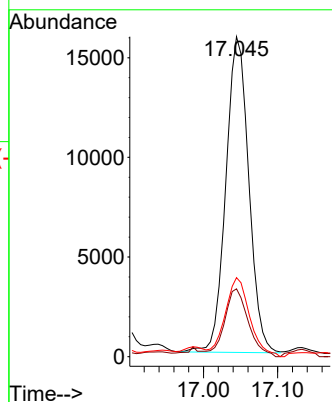
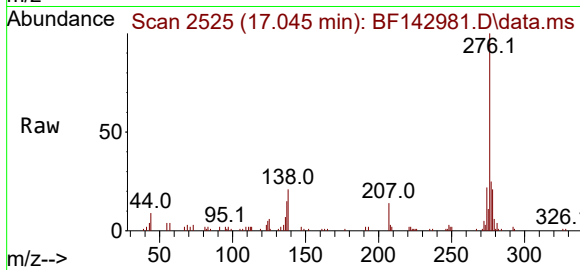
Tgt Ion:276 Resp: 34035

Ion Ratio Lower Upper

276 100

138 22.4 20.2 30.4

277 26.9 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 26.396 ng m

RT: 15.104 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

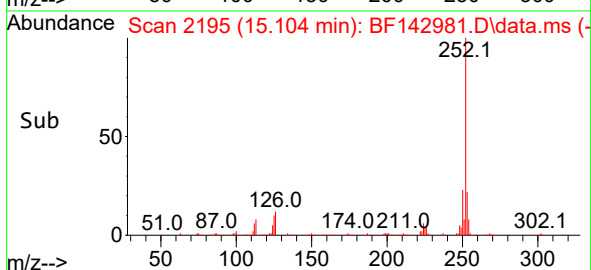
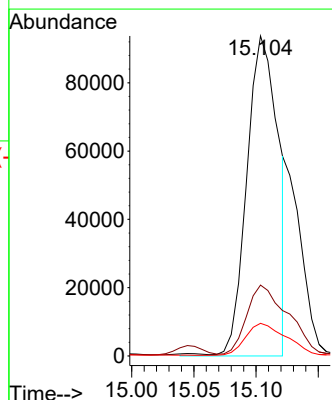
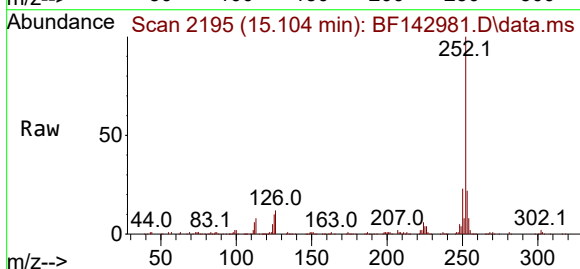
Tgt Ion:252 Resp: 165300

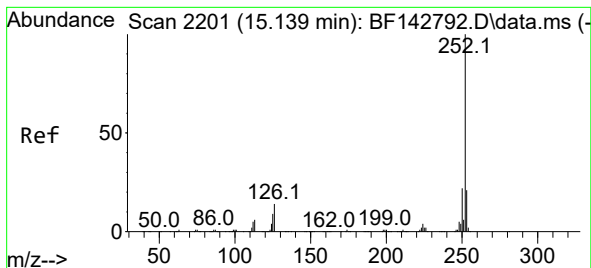
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 10.2 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 8.382 ng m

RT: 15.121 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

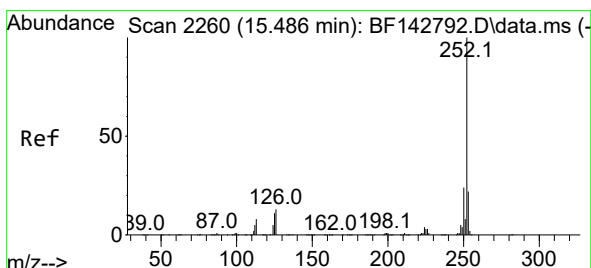
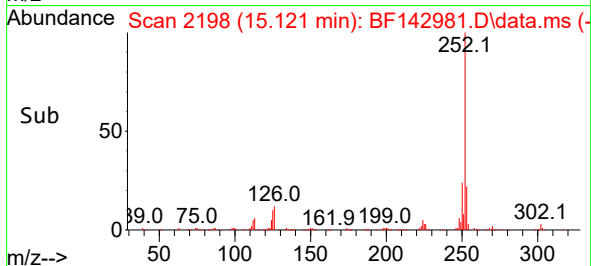
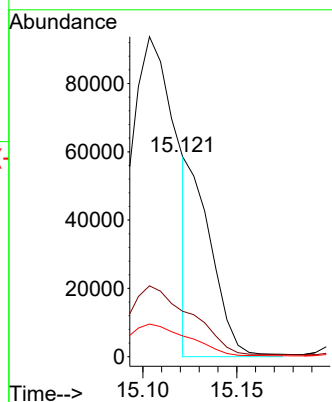
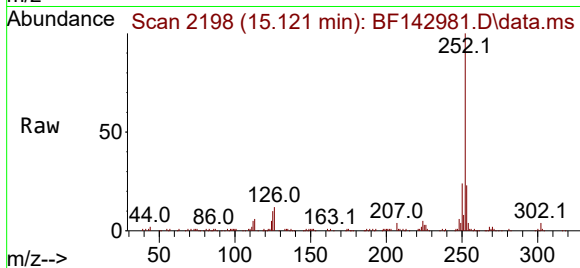
Tgt Ion:252 Resp: 49107

Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

125 10.4 7.4 11.2



#90

Benzo(a)pyrene

Concen: 12.271 ng

RT: 15.480 min Scan# 2259

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

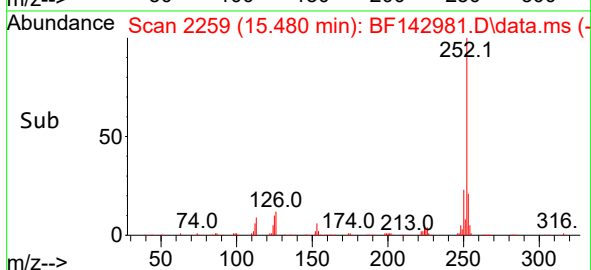
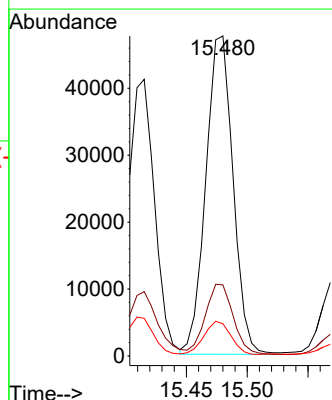
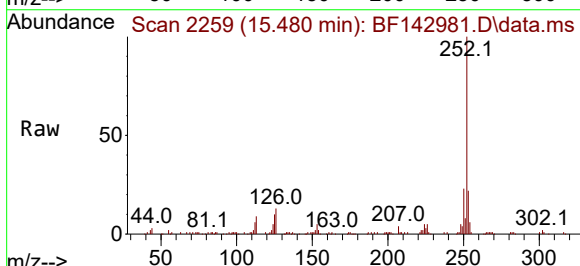
Tgt Ion:252 Resp: 74236

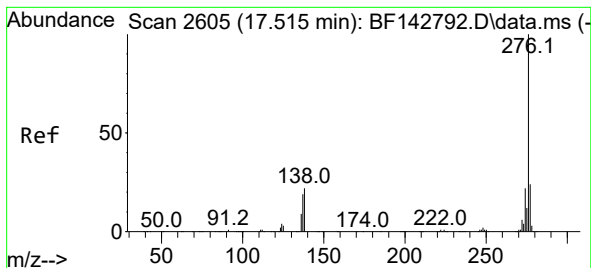
Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 10.0 8.6 12.8





#92

Benzo(g,h,i)perylene

Concen: 4.607 ng

RT: 17.503 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142981.D

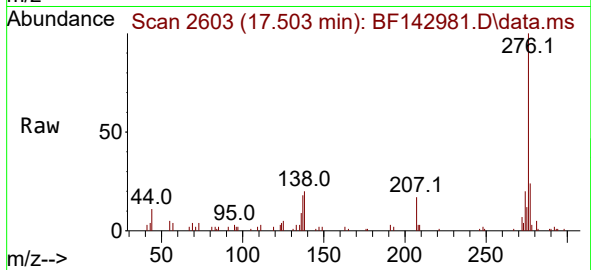
Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE



Tgt Ion:276 Resp: 30772

Ion Ratio Lower Upper

276 100

277 24.1 18.8 28.2

138 19.7 17.6 26.4

