

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032625\
 Data File : BF142112.D
 Acq On : 26 Mar 2025 22:35
 Operator : RC/JU
 Sample : Q1637-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-032525

Quant Time: Mar 27 01:06:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

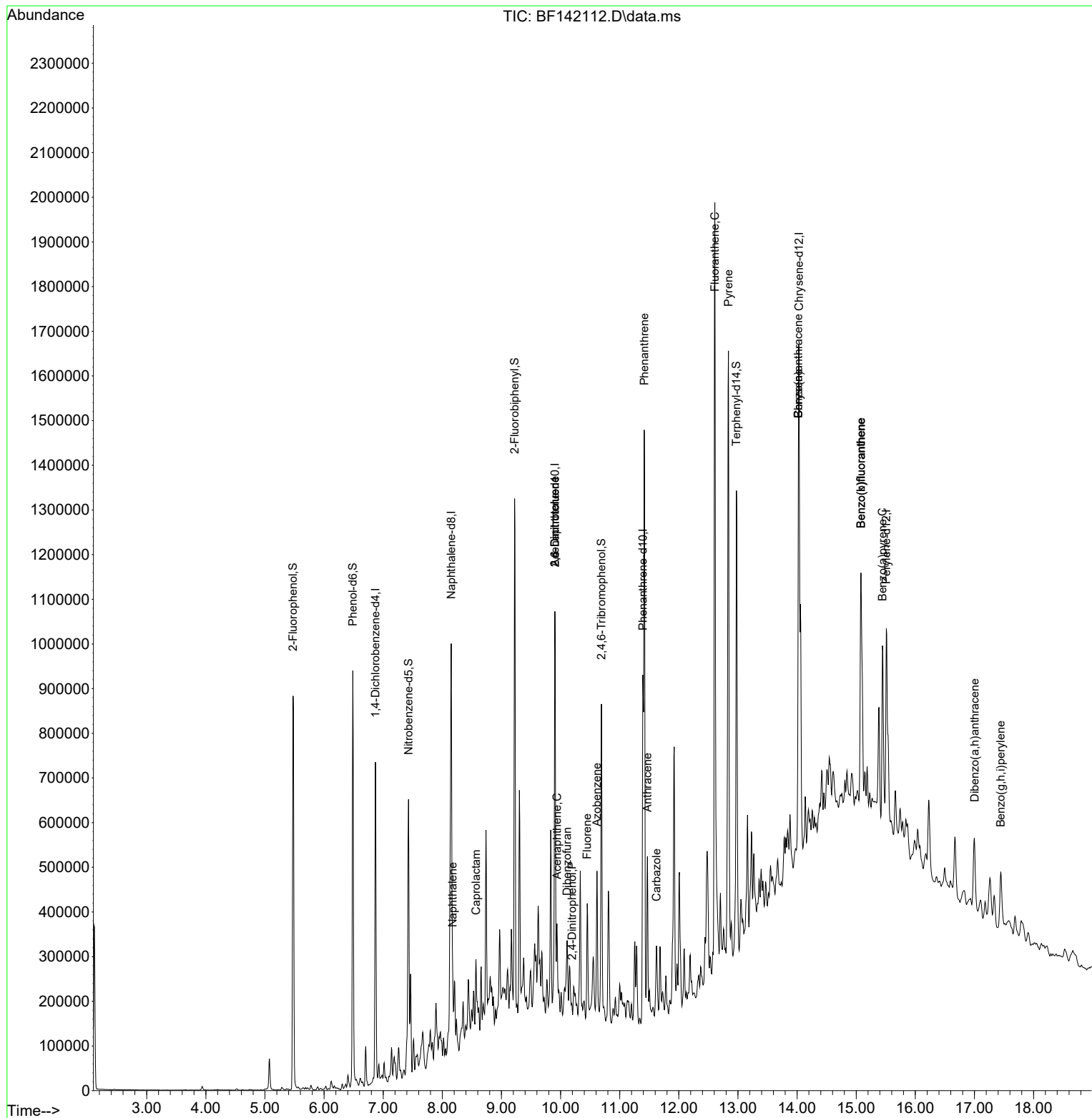
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	150321	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	543156	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	261153	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	394178	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	324857	20.000	ng	0.00
86) Perylene-d12	15.510	264	260188	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	358076	39.756	ng	-0.02
7) Phenol-d6	6.487	99	440499	38.412	ng	-0.02
23) Nitrobenzene-d5	7.428	82	276775	28.676	ng	-0.02
42) 2,4,6-Tribromophenol	10.692	330	119213	35.983	ng	-0.01
45) 2-Fluorobiphenyl	9.222	172	520297	30.299	ng	-0.02
79) Terphenyl-d14	12.974	244	493695	22.469	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.175	128	68265	2.447	ng	97
35) Caprolactam	8.569	113	5652	2.303	ng	# 1
51) 2,6-Dinitrotoluene	9.904	165	38291	10.056	ng	# 25
52) Acenaphthene	9.939	154	53454	3.466	ng	97
54) 2,4-Dinitrophenol	10.192	184	126	6.627	ng	# 45
55) Dibenzofuran	10.110	168	54658	2.480	ng	# 97
57) 2,4-Dinitrotoluene	9.904	165	38291	7.699	ng	# 26
58) Fluorene	10.451	166	93943	5.528	ng	99
63) Azobenzene	10.616	77	69862	4.121	ng	# 1
71) Phenanthrene	11.416	178	705745	33.148	ng	99
72) Anthracene	11.469	178	212279	9.938	ng	99
73) Carbazole	11.622	167	77253	4.194	ng	98
75) Fluoranthene	12.610	202	932084	41.271	ng	99
78) Pyrene	12.839	202	800383	28.483	ng	98
81) Benzo(a)anthracene	14.021	228	381965	17.918	ng	97
83) Chrysene	14.021	228	381965	19.767	ng	96
88) Benzo(b)fluoranthene	15.080	252	464423	26.044	ng	# 94
89) Benzo(k)fluoranthene	15.080	252	464423	30.433	ng	95
90) Benzo(a)pyrene	15.445	252	251355	18.014	ng	95
91) Dibenzo(a,h)anthracene	17.004	278	30490	2.196	ng	# 73
92) Benzo(g,h,i)perylene	17.445	276	130815	9.532	ng	98

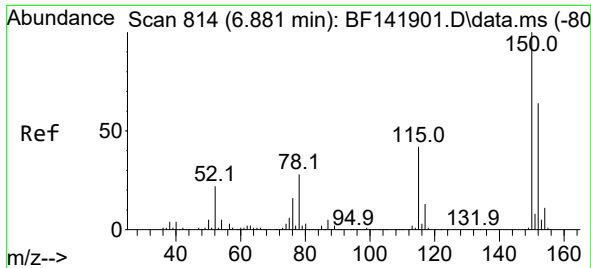
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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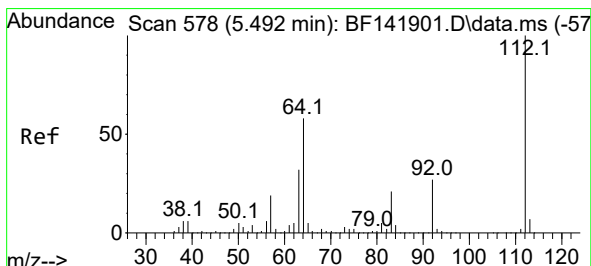
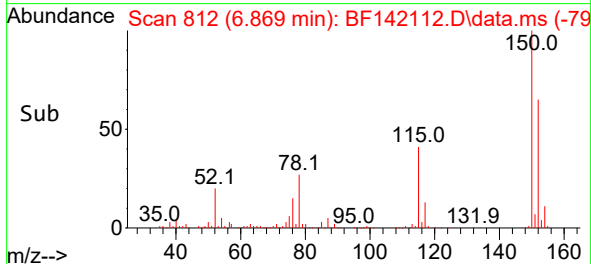
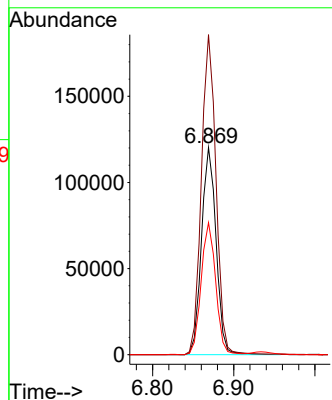
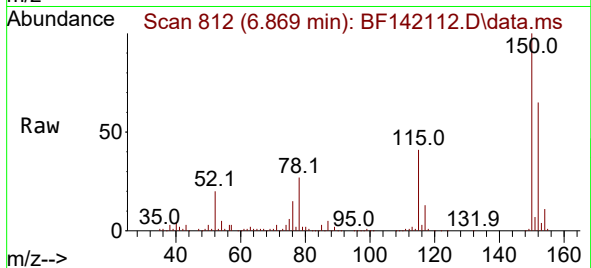




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

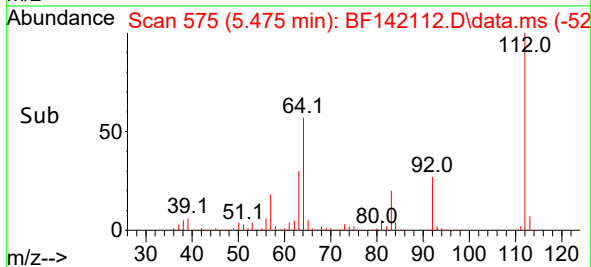
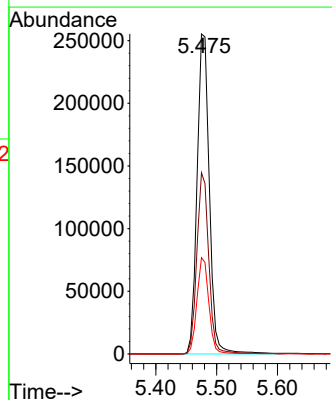
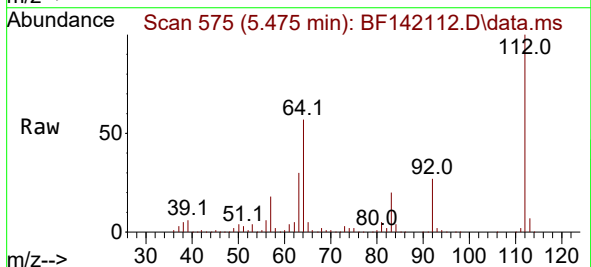
Instrument :
BNA_F
ClientSampleId :
EO-01-032525

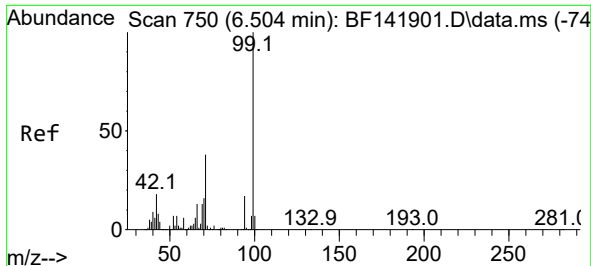
Tgt Ion:152 Resp: 150321
Ion Ratio Lower Upper
152 100
150 154.4 127.4 191.2
115 63.7 51.9 77.9



#5
2-Fluorophenol
Concen: 39.756 ng
RT: 5.475 min Scan# 575
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:112 Resp: 358076
Ion Ratio Lower Upper
112 100
64 56.7 46.5 69.7
63 30.1 25.4 38.2

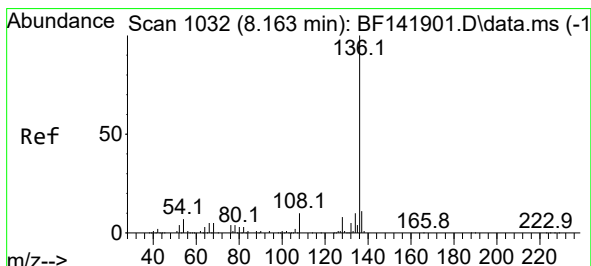
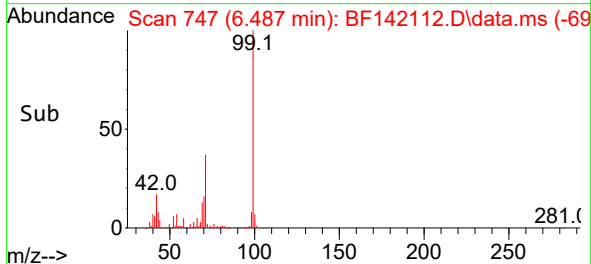
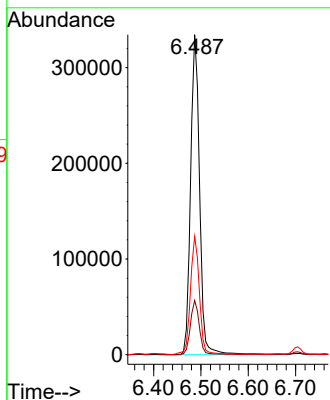
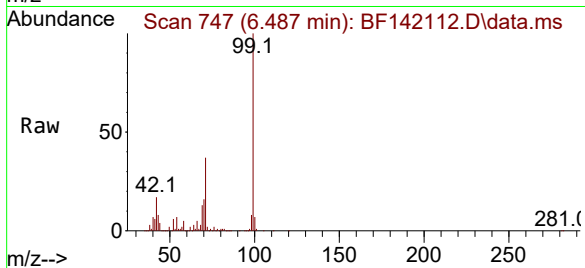




#7
Phenol-d6
Concen: 38.412 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

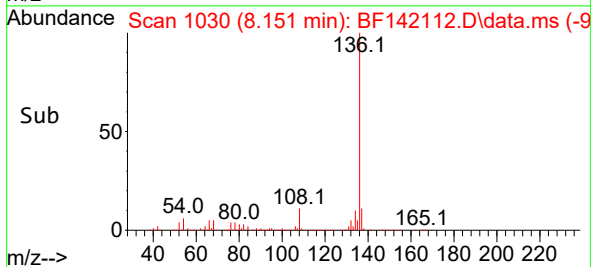
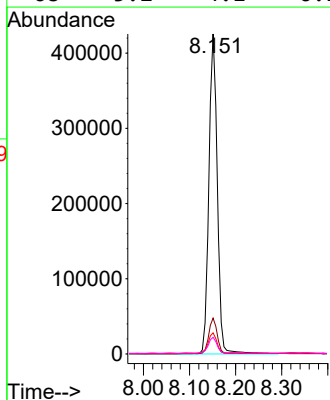
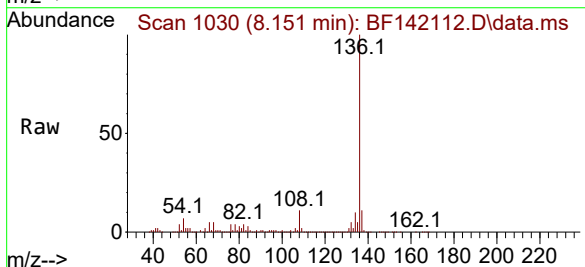
Instrument :
BNA_F
ClientSampleId :
EO-01-032525

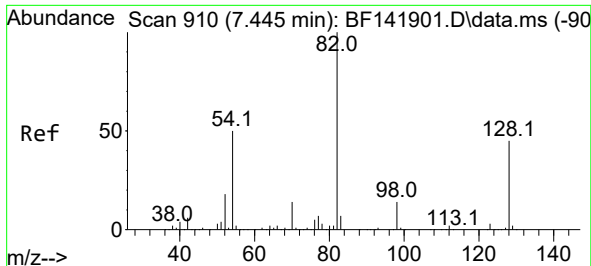
Tgt Ion: 99 Resp: 440499
Ion Ratio Lower Upper
99 100
42 17.0 14.6 21.8
71 36.9 30.8 46.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:136 Resp: 543156
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 6.6 5.8 8.8
68 5.2 4.1 6.1

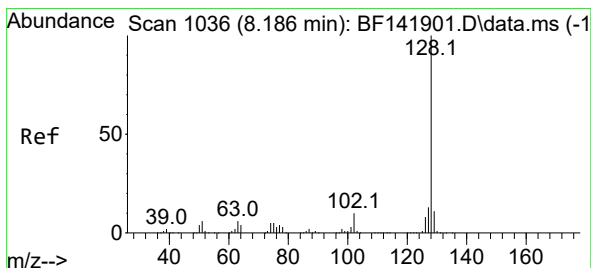
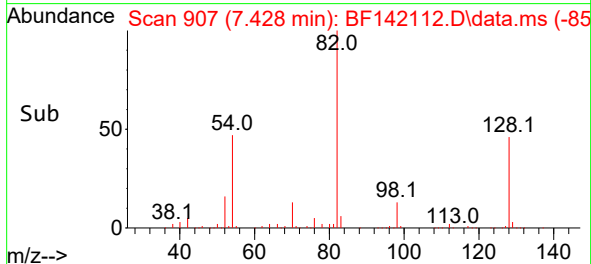
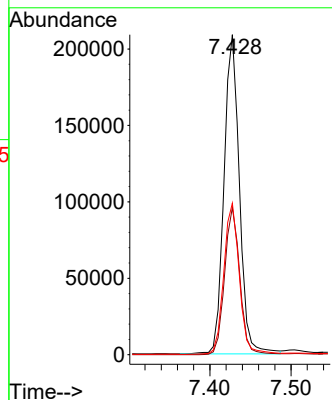
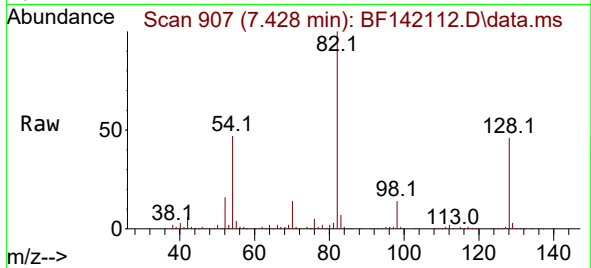




#23
Nitrobenzene-d5
Concen: 28.676 ng
RT: 7.428 min Scan# 90
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

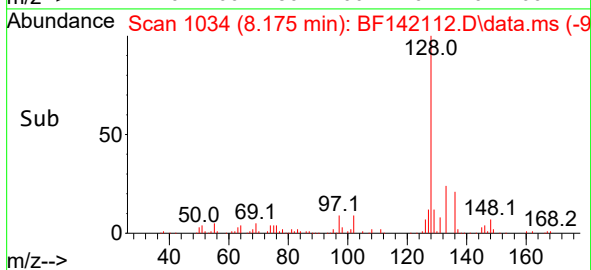
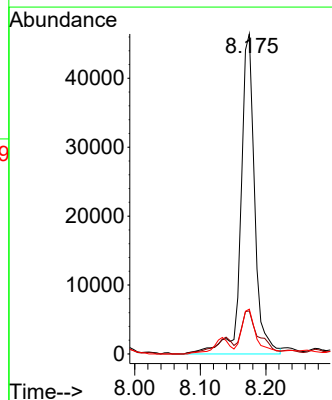
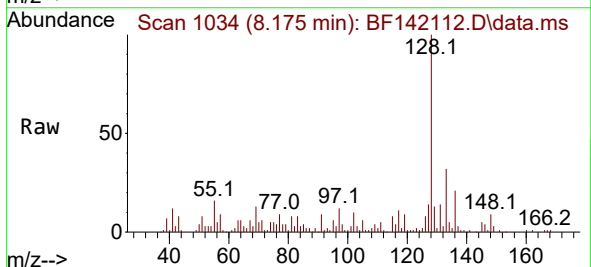
Instrument :
BNA_F
ClientSampleId :
EO-01-032525

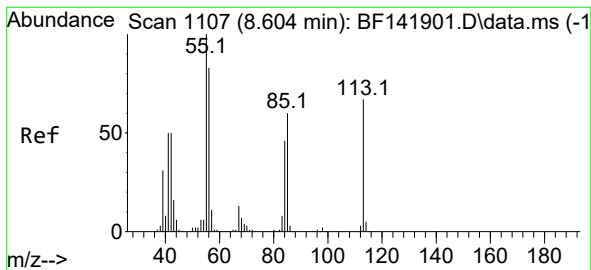
Tgt Ion: 82 Resp: 276775
Ion Ratio Lower Upper
82 100
128 46.0 36.0 54.0
54 47.3 39.6 59.4



#31
Naphthalene
Concen: 2.447 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:128 Resp: 68265
Ion Ratio Lower Upper
128 100
129 13.5 9.0 13.6
127 14.0 10.8 16.2





#35

Caprolactam

Concen: 2.303 ng

RT: 8.569 min Scan# 1101

Delta R.T. -0.035 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

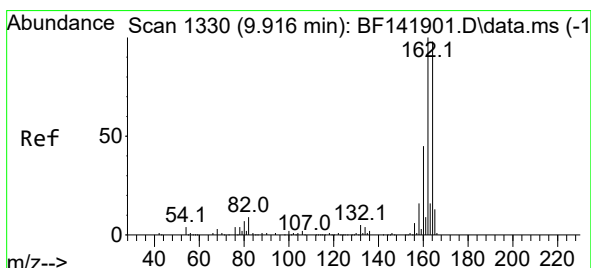
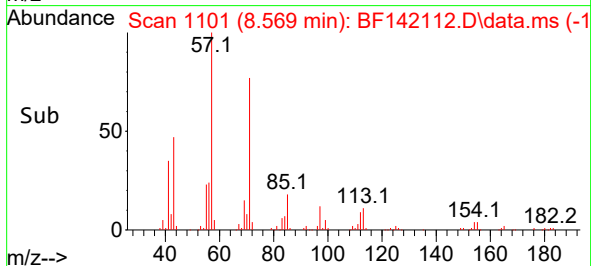
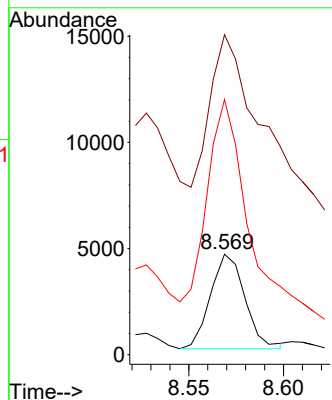
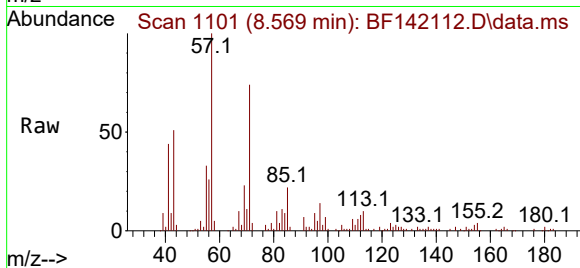
Tgt Ion:113 Resp: 5652

Ion Ratio Lower Upper

113 100

55 318.5 129.6 169.6#

56 254.0 104.0 144.0#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

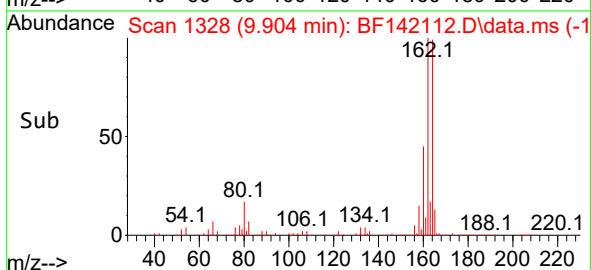
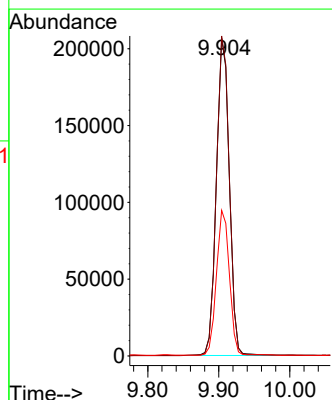
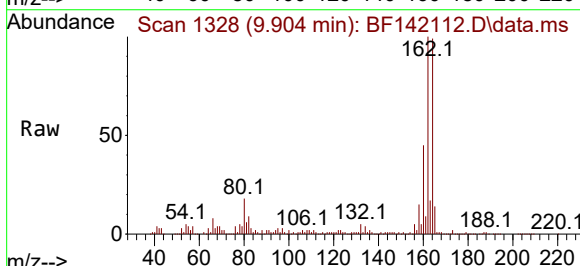
Tgt Ion:164 Resp: 261153

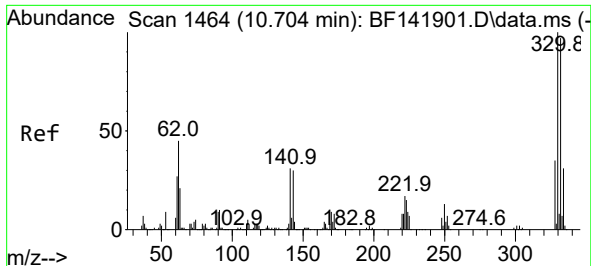
Ion Ratio Lower Upper

164 100

162 100.7 81.8 122.6

160 45.8 36.7 55.1

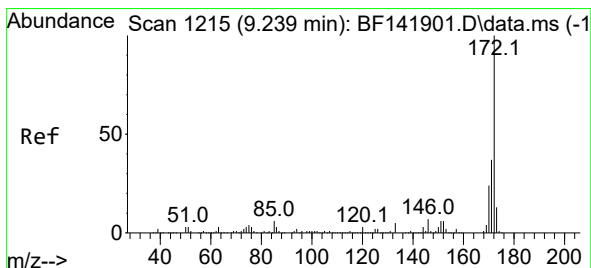
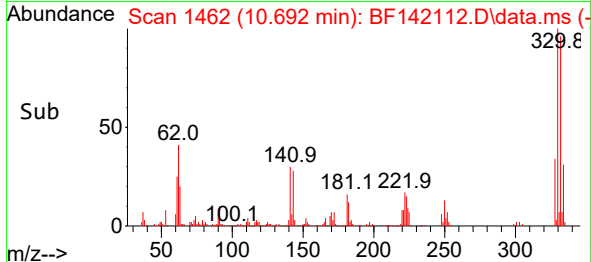
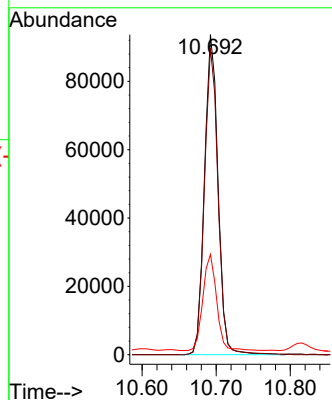
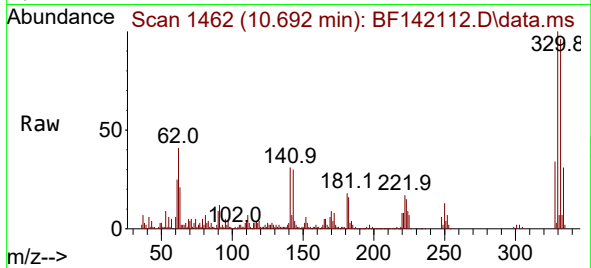




#42
 2,4,6-Tribromophenol
 Concen: 35.983 ng
 RT: 10.692 min Scan# 1464
 Delta R.T. -0.012 min
 Lab File: BF142112.D
 Acq: 26 Mar 2025 22:35

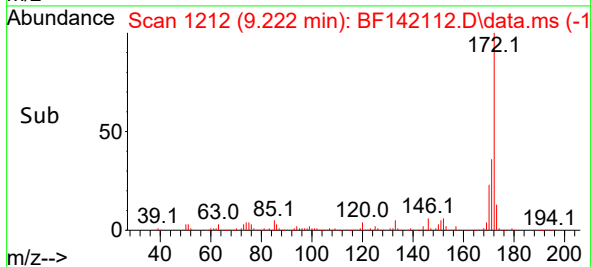
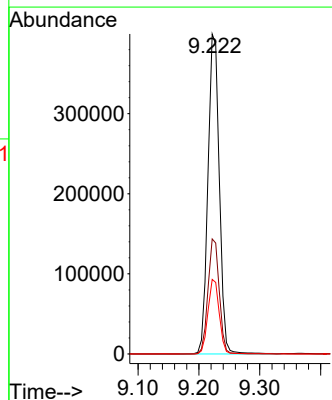
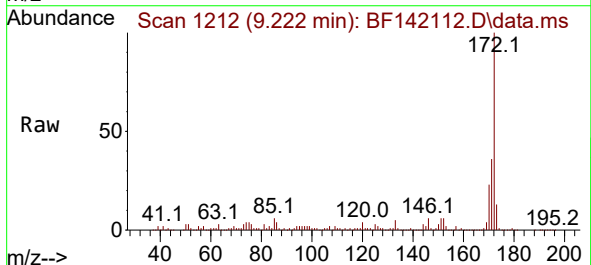
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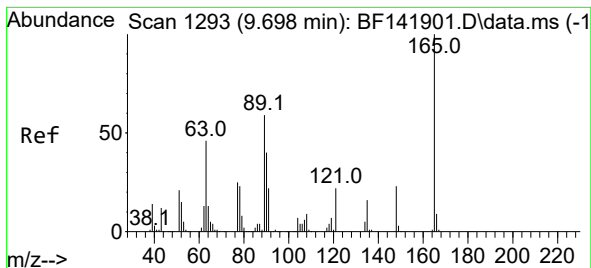
Tgt Ion: 330 Resp: 119213
 Ion Ratio Lower Upper
 330 100
 332 96.0 77.6 116.4
 141 30.3 24.7 37.1



#45
 2-Fluorobiphenyl
 Concen: 30.299 ng
 RT: 9.222 min Scan# 1212
 Delta R.T. -0.018 min
 Lab File: BF142112.D
 Acq: 26 Mar 2025 22:35

Tgt Ion: 172 Resp: 520297
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.3 43.9
 170 23.3 19.4 29.0





#51

2,6-Dinitrotoluene

Concen: 10.056 ng

RT: 9.904 min Scan# 1

Delta R.T. 0.206 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

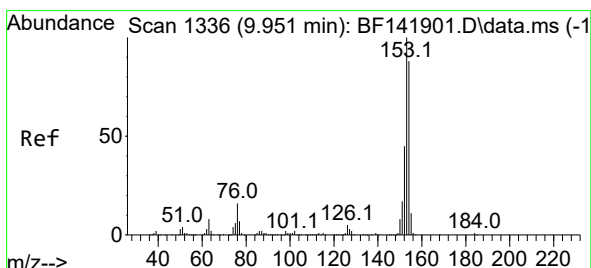
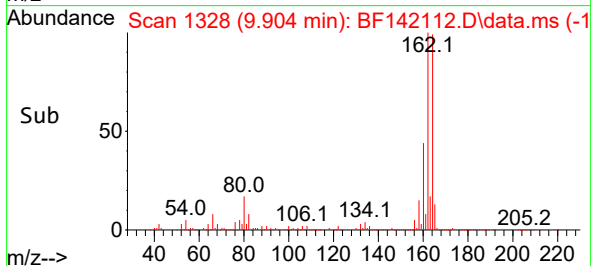
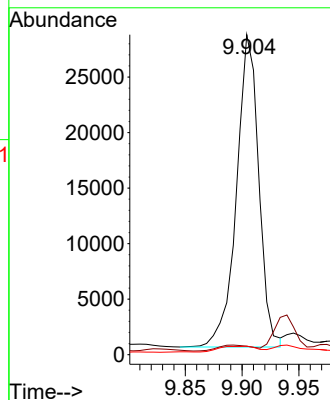
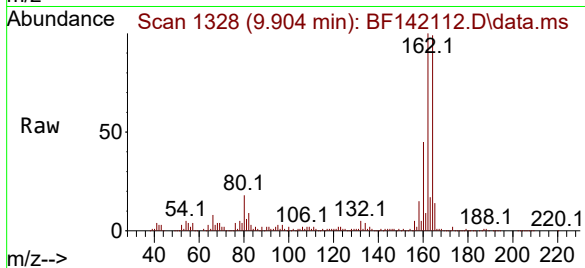
Tgt Ion:165 Resp: 38291

Ion Ratio Lower Upper

165 100

63 2.6 47.0 70.4#

89 2.7 47.4 71.2#



#52

Acenaphthene

Concen: 3.466 ng

RT: 9.939 min Scan# 1334

Delta R.T. -0.012 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

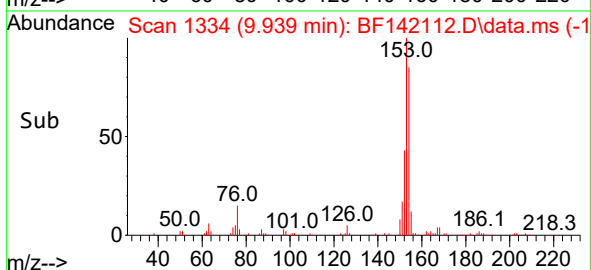
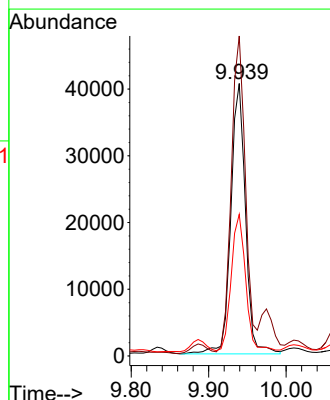
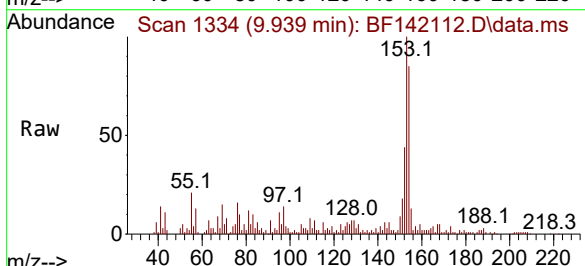
Tgt Ion:154 Resp: 53454

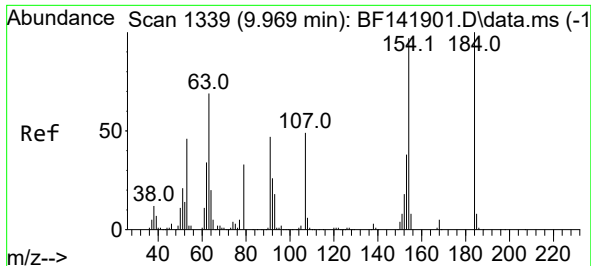
Ion Ratio Lower Upper

154 100

153 117.4 90.7 136.1

152 51.9 41.1 61.7

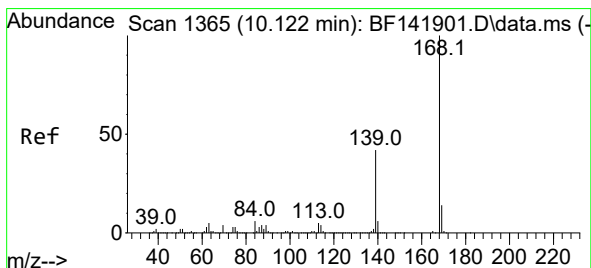
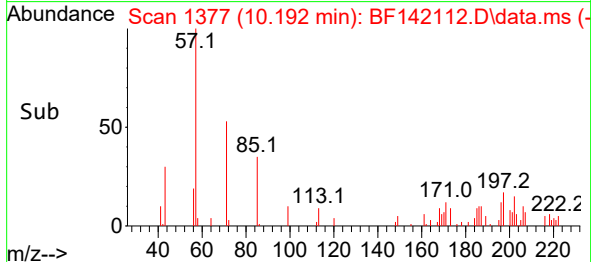
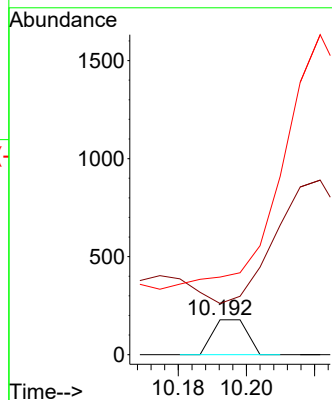
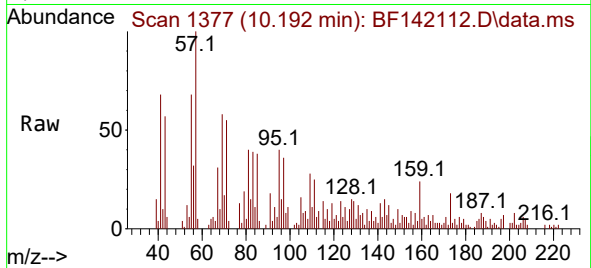




#54
2,4-Dinitrophenol
Concen: 6.627 ng
RT: 10.192 min Scan# 1377
Delta R.T. 0.223 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

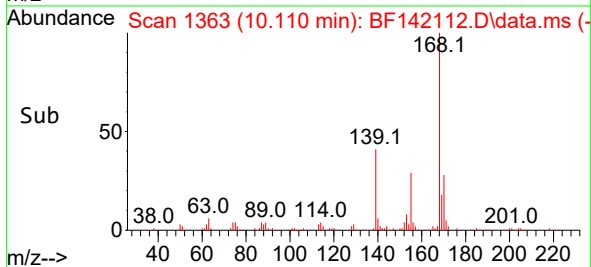
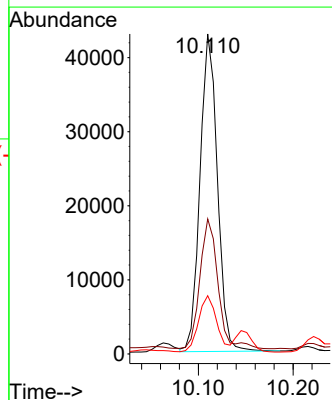
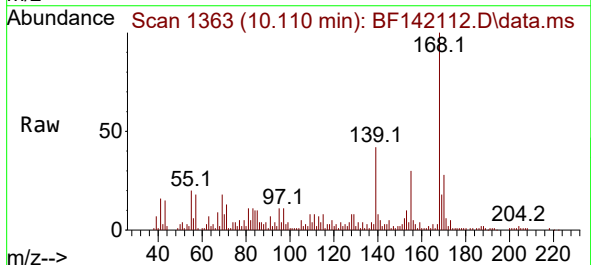
Instrument :
BNA_F
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EO-01-032525

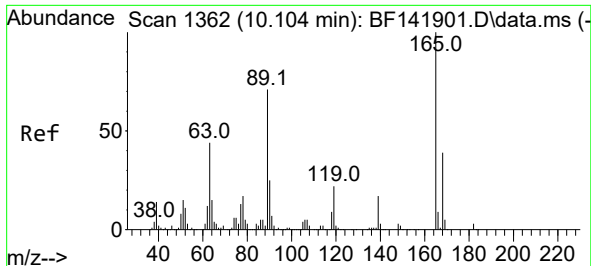
Tgt Ion:184 Resp: 126
Ion Ratio Lower Upper
184 100
63 146.6 60.2 90.4#
154 222.5 132.9 199.3#



#55
Dibenzofuran
Concen: 2.480 ng
RT: 10.110 min Scan# 1363
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:168 Resp: 54658
Ion Ratio Lower Upper
168 100
139 42.2 33.9 50.9
169 18.2 11.0 16.4#

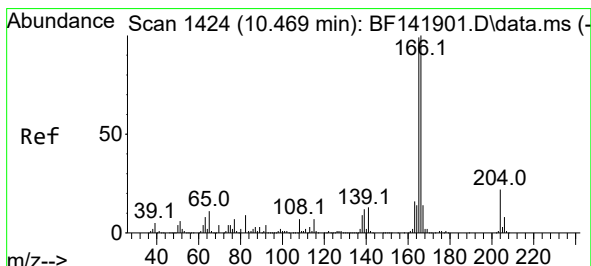
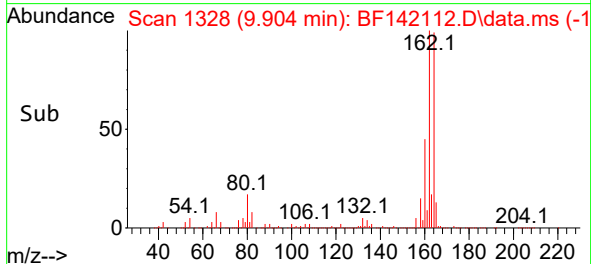
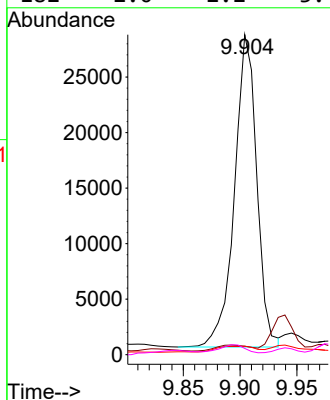
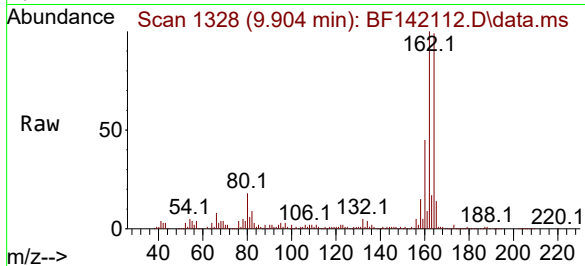




#57
2,4-Dinitrotoluene
Concen: 7.699 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.200 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

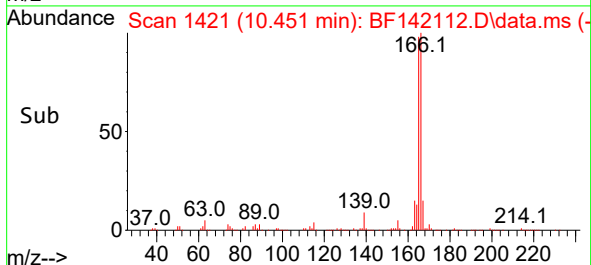
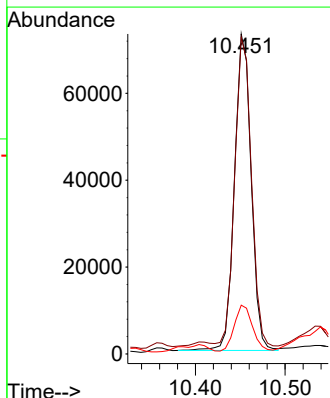
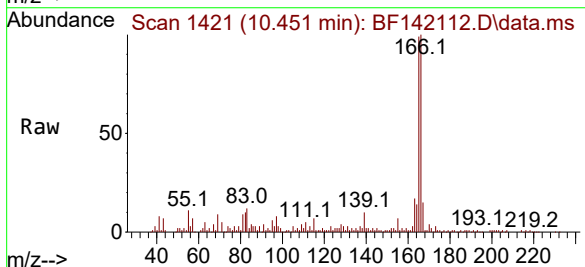
Instrument :
BNA_F
ClientSampleId :
EO-01-032525

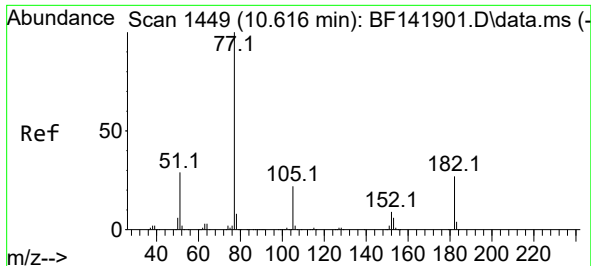
Tgt Ion:165 Resp: 38291
Ion Ratio Lower Upper
165 100
63 2.6 35.4 53.2#
89 2.7 56.6 84.8#
182 2.0 2.2 3.4#



#58
Fluorene
Concen: 5.528 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:166 Resp: 93943
Ion Ratio Lower Upper
166 100
165 99.0 79.0 118.4
167 15.2 11.0 16.4

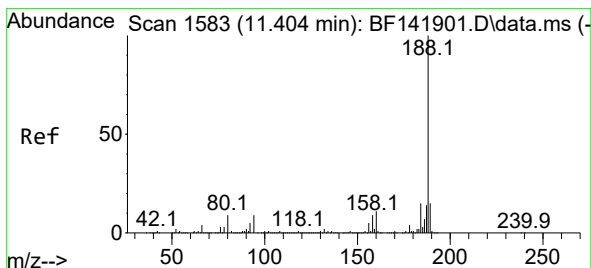
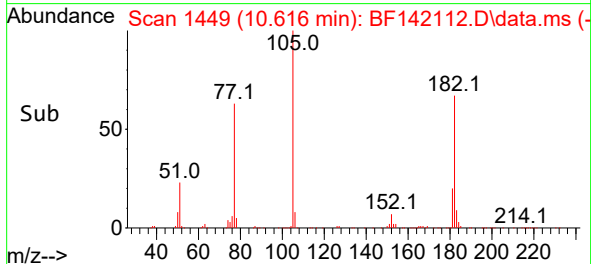
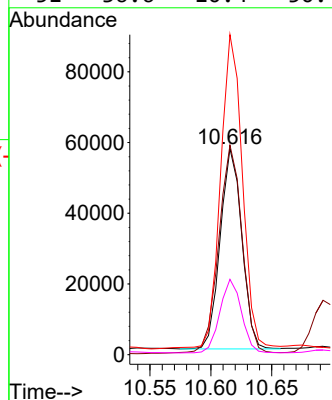
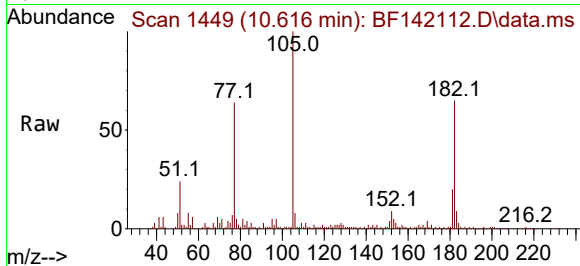




#63
Azobenzene
Concen: 4.121 ng
RT: 10.616 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

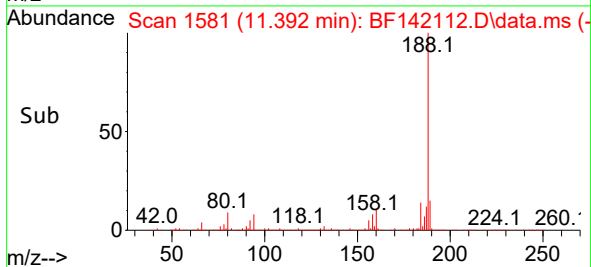
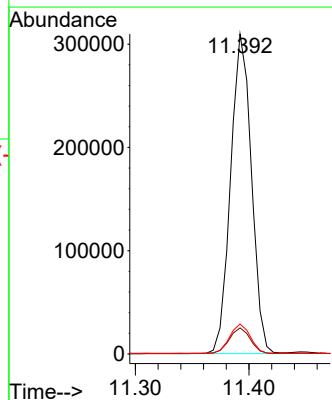
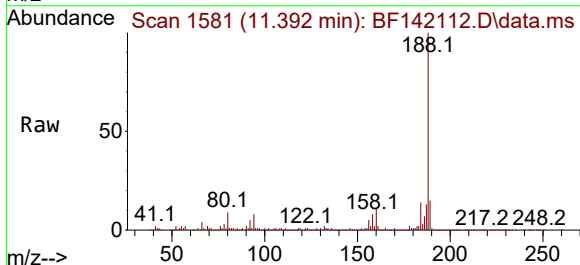
Instrument :
BNA_F
ClientSampleId :
EO-01-032525

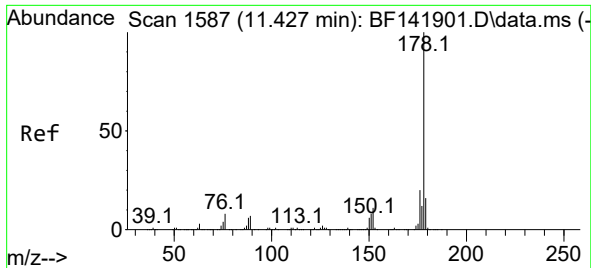
Tgt Ion: 77	Resp: 69862
Ion Ratio	Lower Upper
77	100
182	101.7 6.6 46.6#
105	155.3 1.3 41.3#
51	36.6 10.4 50.4



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion: 188	Resp: 394178
Ion Ratio	Lower Upper
188	100
94	8.2 6.8 10.2
80	9.4 7.6 11.4

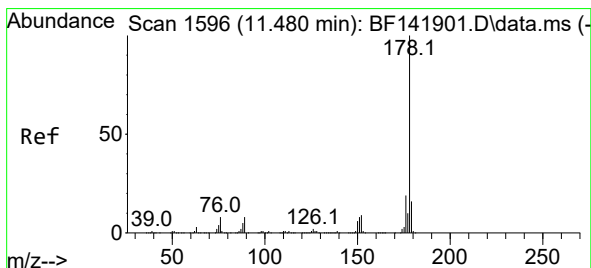
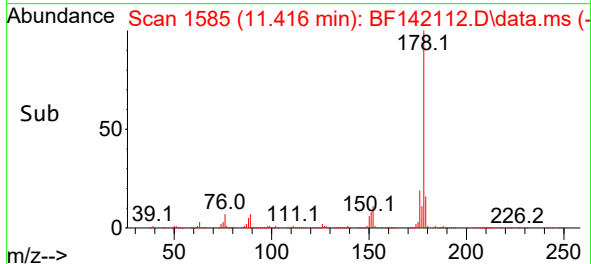
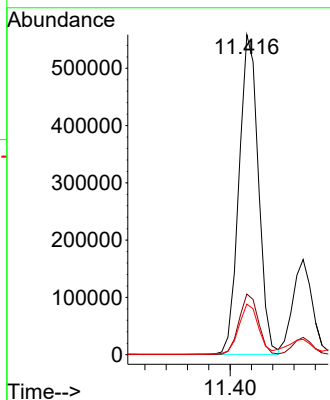
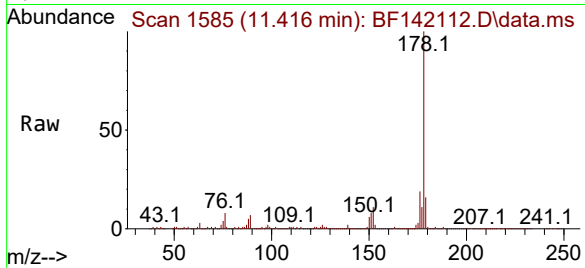




#71
Phenanthrene
Concen: 33.148 ng
RT: 11.416 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

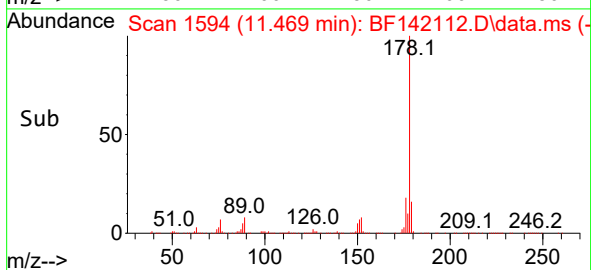
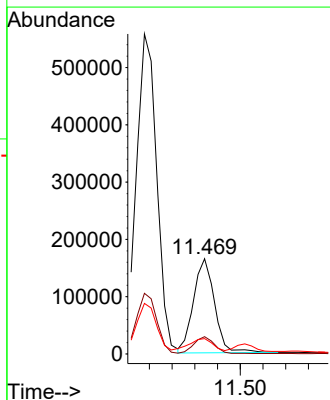
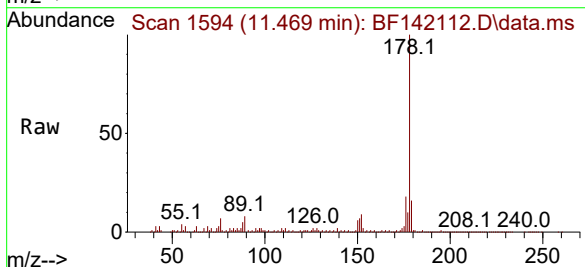
Instrument :
BNA_F
ClientSampleId :
EO-01-032525

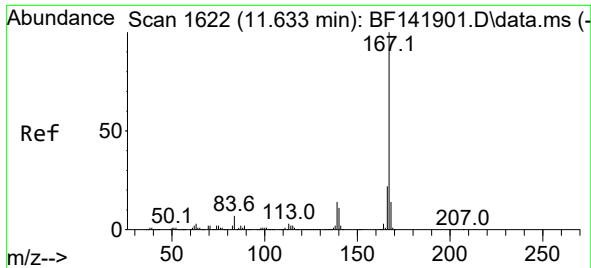
Tgt Ion:178 Resp: 705745
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.8
179 15.8 12.6 19.0



#72
Anthracene
Concen: 9.938 ng
RT: 11.469 min Scan# 1594
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:178 Resp: 212279
Ion Ratio Lower Upper
178 100
176 18.1 15.1 22.7
179 16.1 12.6 19.0

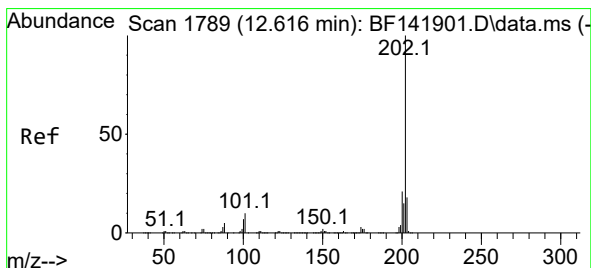
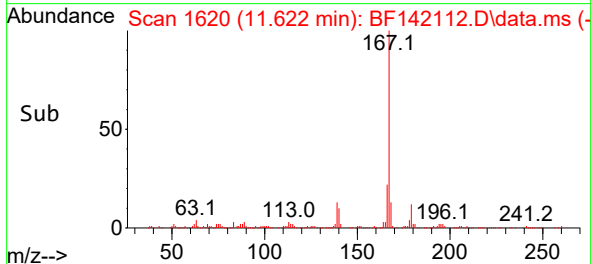
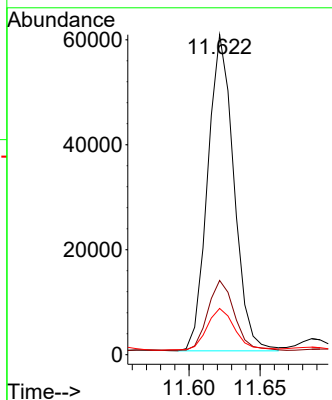
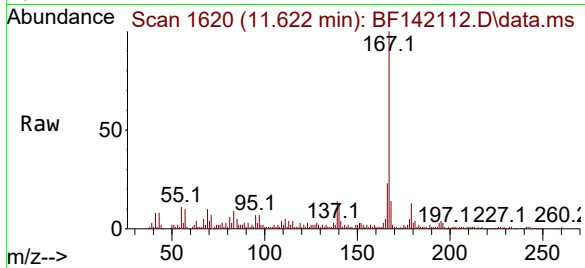




#73
 Carbazole
 Concen: 4.194 ng
 RT: 11.622 min Scan# 1620
 Delta R.T. -0.012 min
 Lab File: BF142112.D
 Acq: 26 Mar 2025 22:35

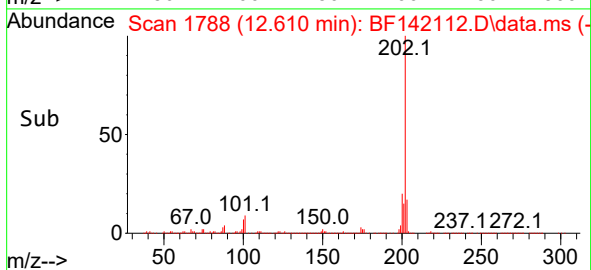
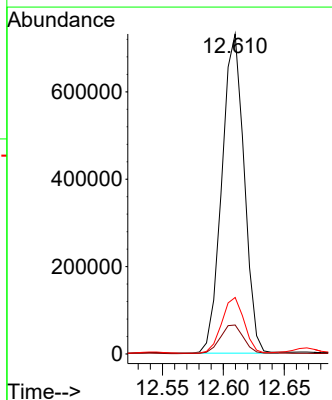
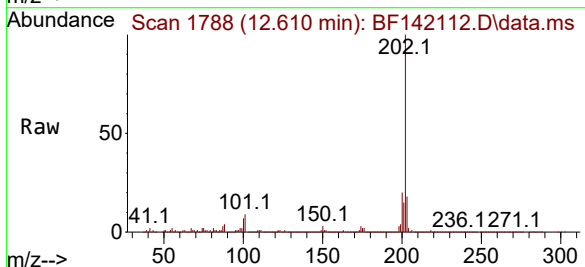
Instrument :
 BNA_F
 ClientSampleId :
 EO-01-032525

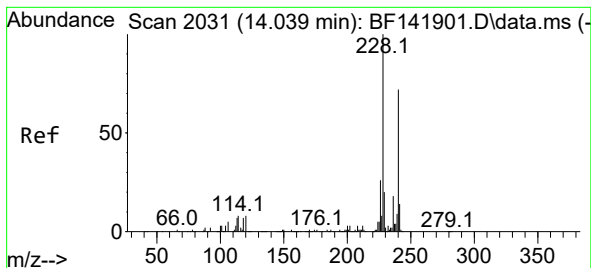
Tgt Ion:167	Resp:	77253
Ion Ratio	Lower	Upper
167	100	
166	23.2	17.4 26.2
139	14.4	11.0 16.6



#75
 Fluoranthene
 Concen: 41.271 ng
 RT: 12.610 min Scan# 1788
 Delta R.T. -0.006 min
 Lab File: BF142112.D
 Acq: 26 Mar 2025 22:35

Tgt Ion:202	Resp:	932084
Ion Ratio	Lower	Upper
202	100	
101	9.0	0.0 29.7
203	17.6	0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

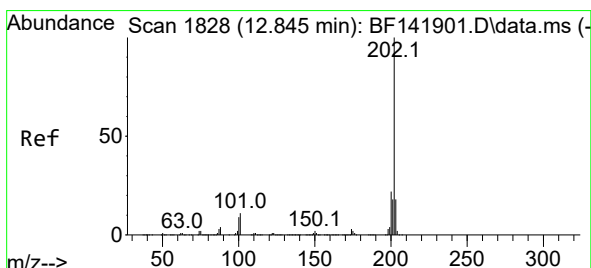
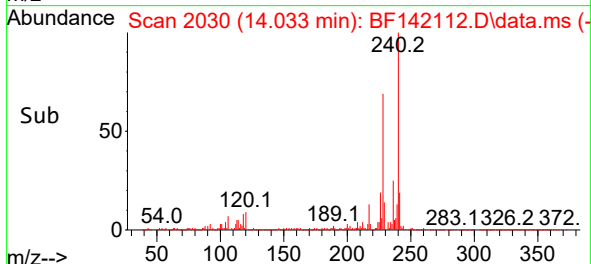
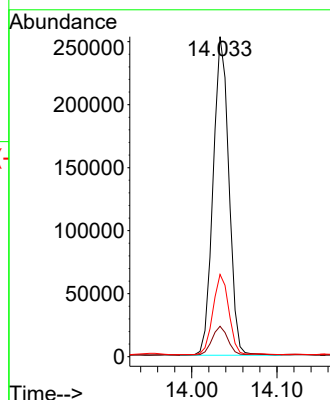
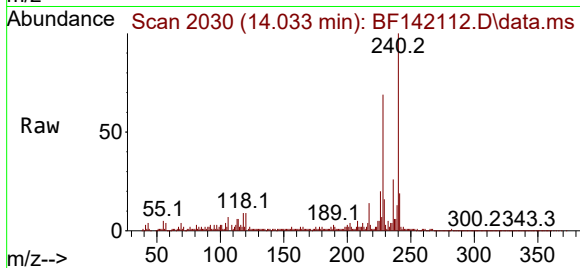
Tgt Ion:240 Resp: 324857

Ion Ratio Lower Upper

240 100

120 9.5 8.4 12.6

236 25.7 20.5 30.7



#78

Pyrene

Concen: 28.483 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.006 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

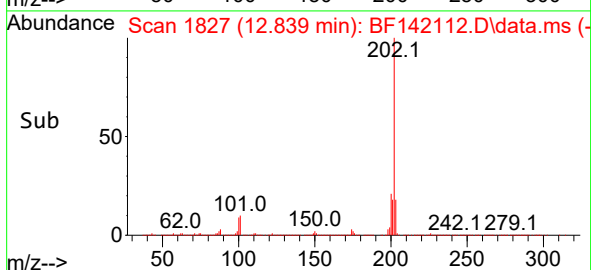
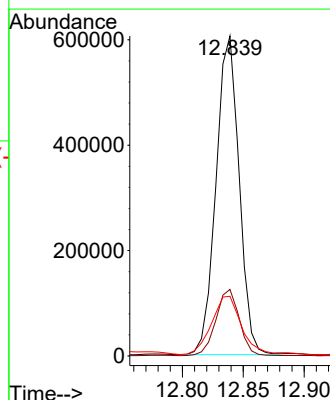
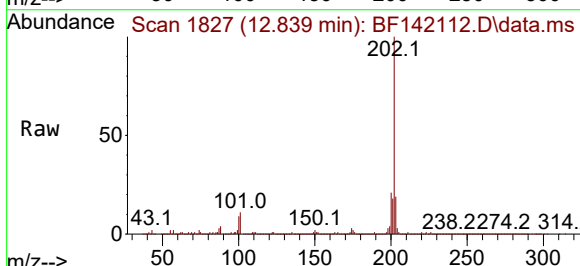
Tgt Ion:202 Resp: 800383

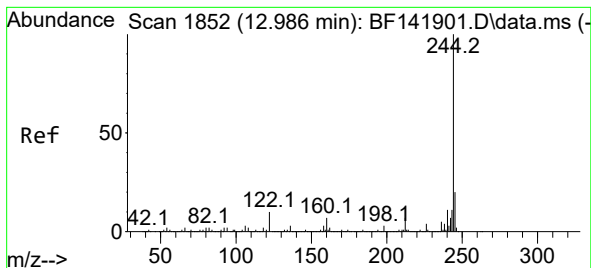
Ion Ratio Lower Upper

202 100

200 20.8 17.3 25.9

203 18.7 14.4 21.6





#79

Terphenyl-d14

Concen: 22.469 ng

RT: 12.974 min Scan# 1850

Delta R.T. -0.012 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

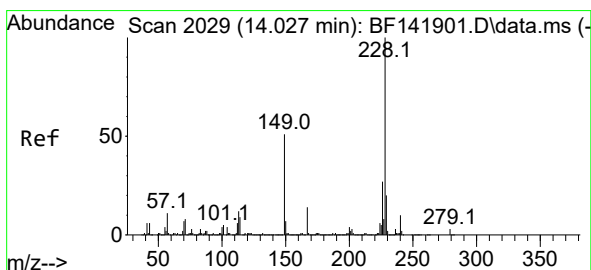
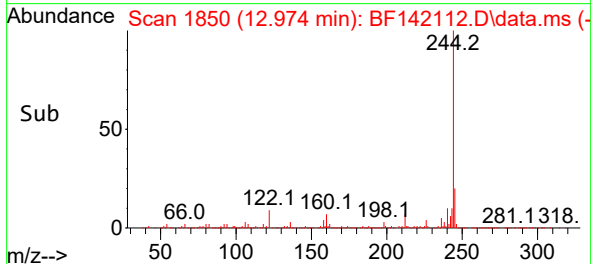
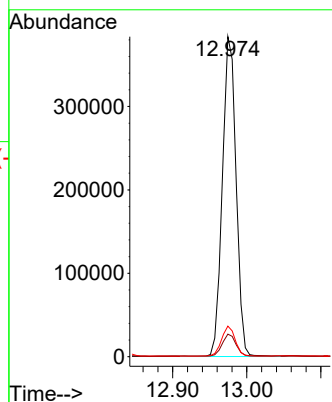
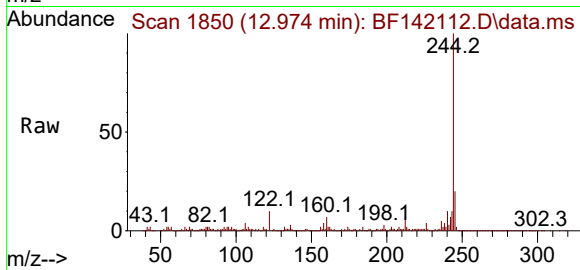
Tgt Ion:244 Resp: 493695

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

122 9.6 7.7 11.5



#81

Benzo(a)anthracene

Concen: 17.918 ng

RT: 14.021 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

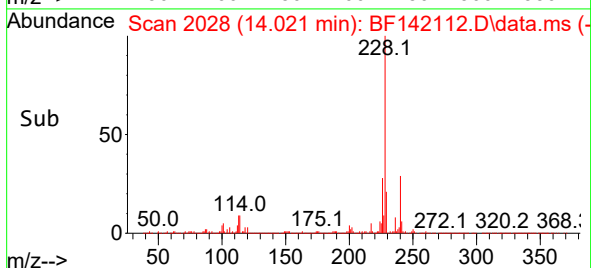
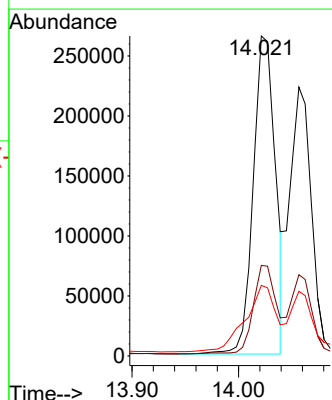
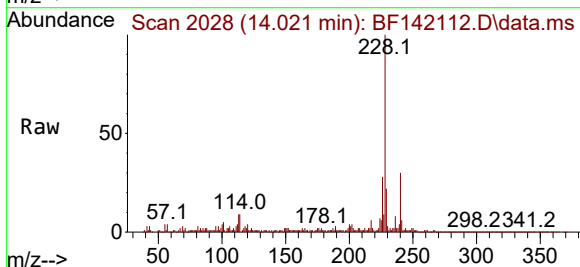
Tgt Ion:228 Resp: 381965

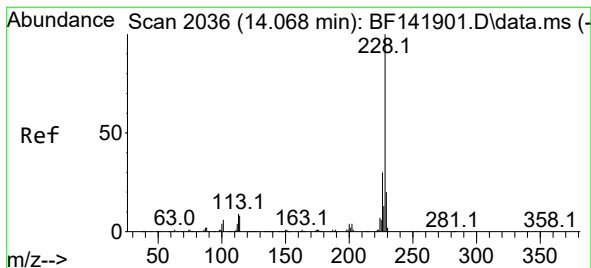
Ion Ratio Lower Upper

228 100

226 28.3 21.8 32.8

229 22.1 16.0 24.0





#83

Chrysene

Concen: 19.767 ng

RT: 14.021 min Scan# 2036

Delta R.T. -0.047 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

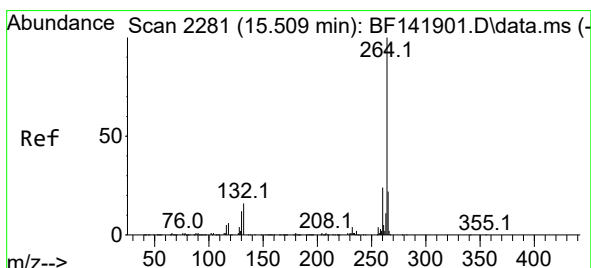
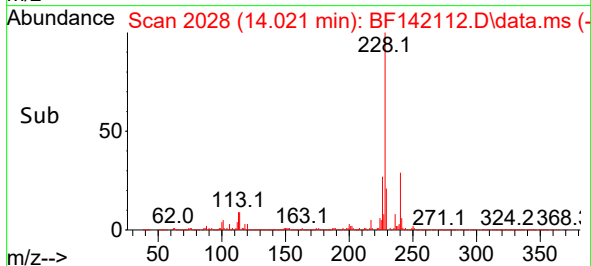
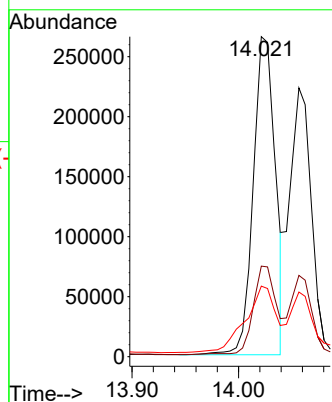
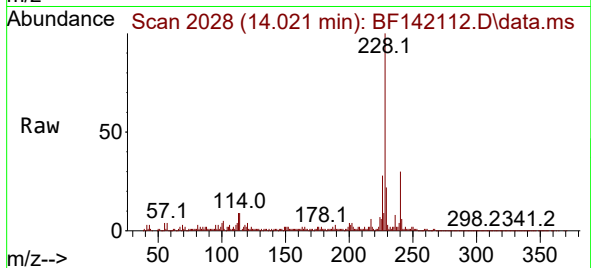
Tgt Ion:228 Resp: 381965

Ion Ratio Lower Upper

228 100

226 28.3 24.1 36.1

229 22.1 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. 0.000 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

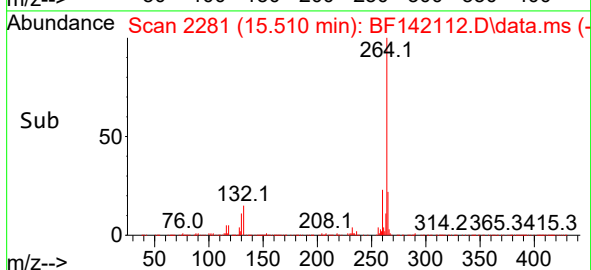
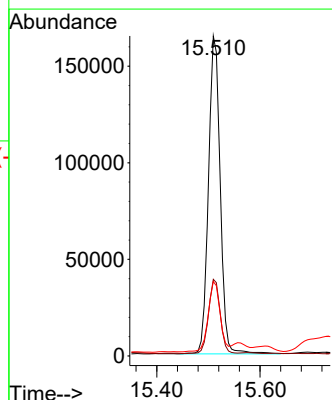
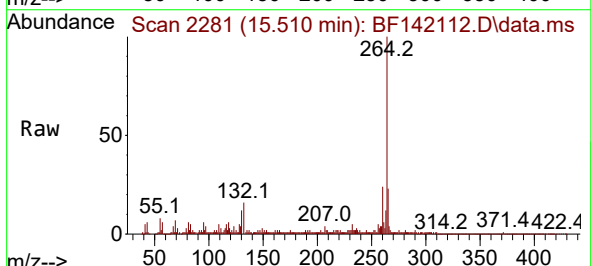
Tgt Ion:264 Resp: 260188

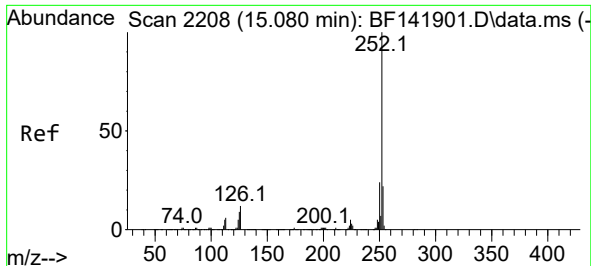
Ion Ratio Lower Upper

264 100

260 24.0 19.1 28.7

265 23.3 17.5 26.3

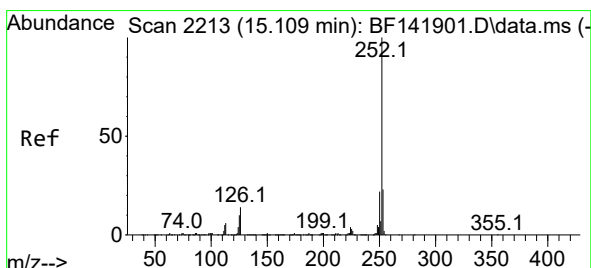
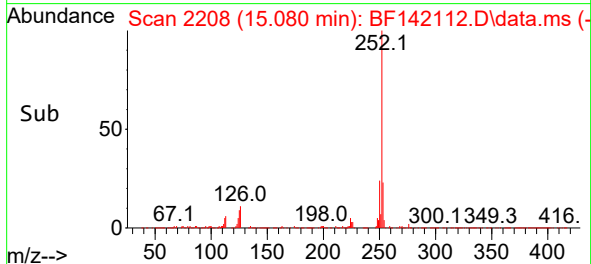
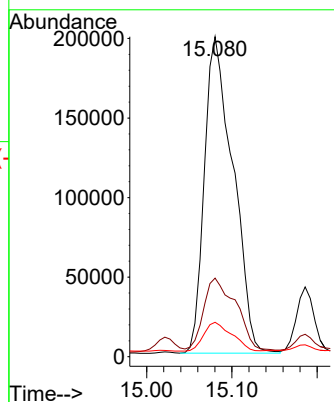
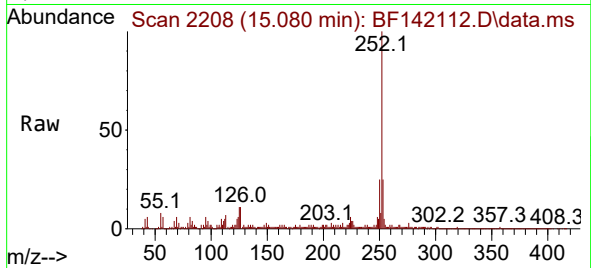




#88
Benzo(b)fluoranthene
Concen: 26.044 ng
RT: 15.080 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

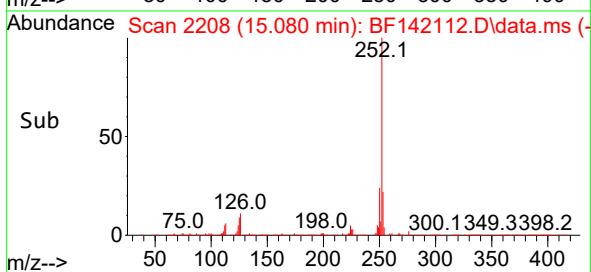
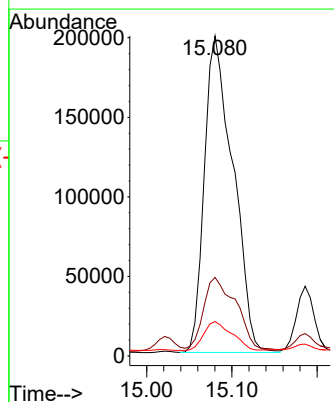
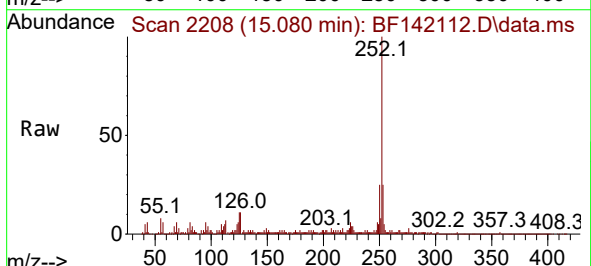
Instrument :
BNA_F
ClientSampleId :
EO-01-032525

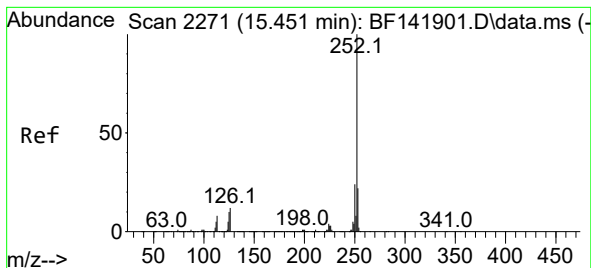
Tgt Ion:252 Resp: 464423
Ion Ratio Lower Upper
252 100
253 24.5 17.5 26.3
125 10.8 7.0 10.4#



#89
Benzo(k)fluoranthene
Concen: 30.433 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.029 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:252 Resp: 464423
Ion Ratio Lower Upper
252 100
253 24.5 17.7 26.5
125 10.8 7.2 10.8





#90

Benzo(a)pyrene

Concen: 18.014 ng

RT: 15.445 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

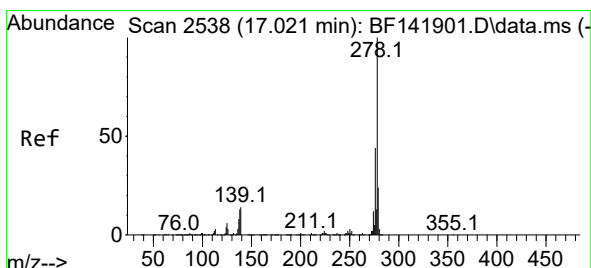
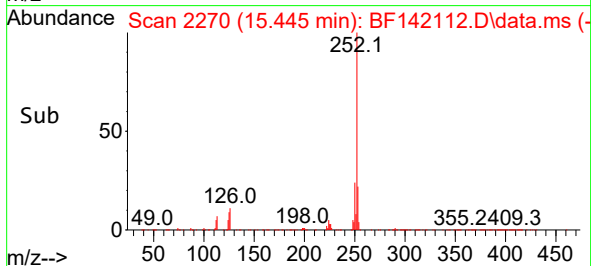
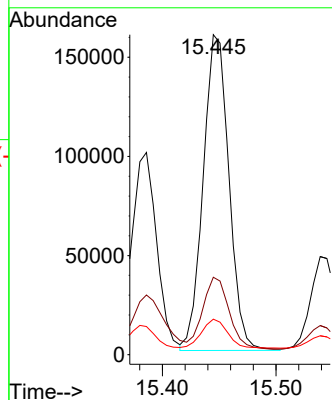
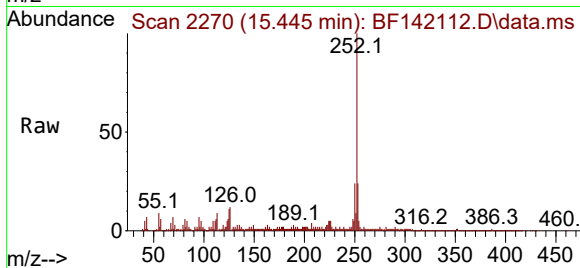
Tgt Ion:252 Resp: 251355

Ion Ratio Lower Upper

252 100

253 24.2 17.4 26.0

125 11.1 7.8 11.8



#91

Dibenzo(a,h)anthracene

Concen: 2.196 ng

RT: 17.004 min Scan# 2535

Delta R.T. -0.018 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

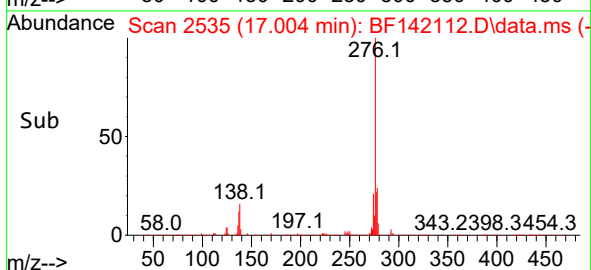
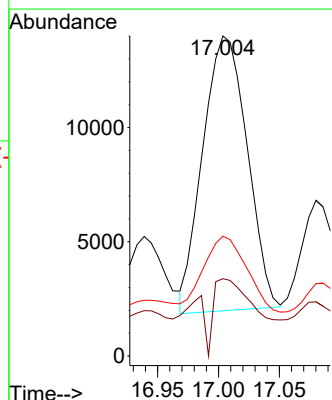
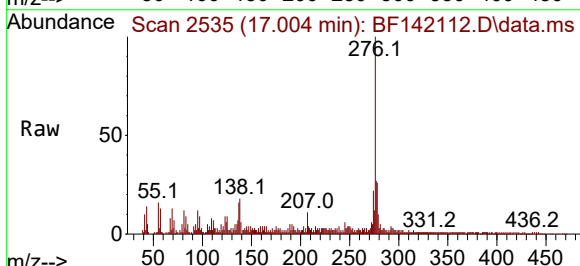
Tgt Ion:278 Resp: 30490

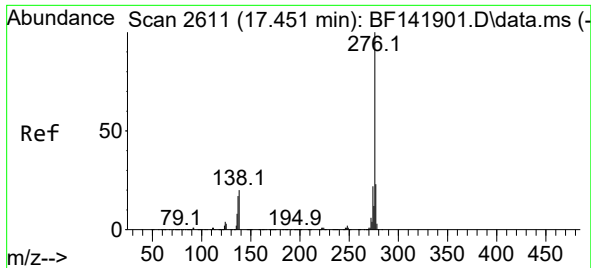
Ion Ratio Lower Upper

278 100

139 24.1 11.4 17.2#

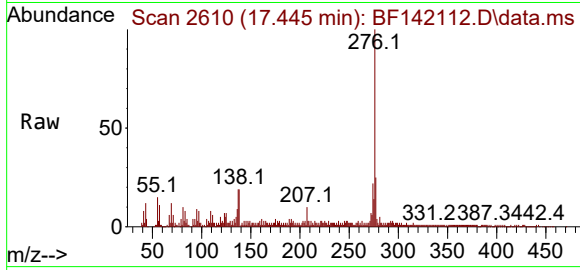
279 37.4 18.8 28.2#





#92
Benzo(g,h,i)perylene
Concen: 9.532 ng
RT: 17.445 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Instrument :
BNA_F
ClientSampleId :
EO-01-032525



Tgt Ion:276 Resp: 130815
Ion Ratio Lower Upper
276 100
277 24.8 18.7 28.1
138 19.2 15.8 23.8

