

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032725\
 Data File : BF142133.D
 Acq On : 27 Mar 2025 19:14
 Operator : RC/JU
 Sample : Q1648-07
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

Quant Time: Mar 28 01:56:08 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)

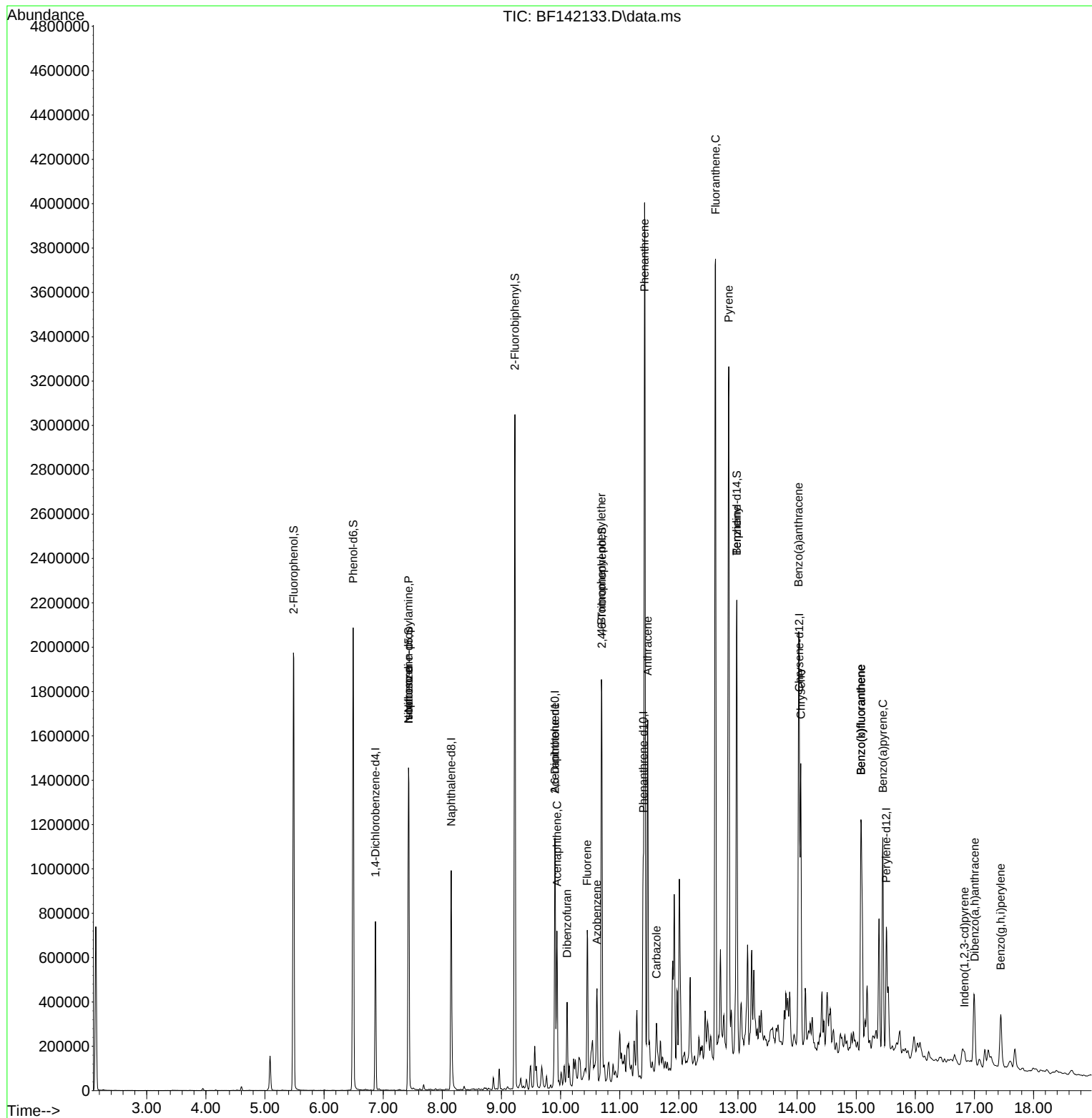
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	162825	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	636889	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	340805	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	495730	20.000	ng	0.00
76) Chrysene-d12	14.039	240	321316	20.000	ng	0.00
86) Perylene-d12	15.509	264	335401	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	810567	83.083	ng	0.00
7) Phenol-d6	6.492	99	1029310	82.864	ng	-0.01
23) Nitrobenzene-d5	7.428	82	696806	61.570	ng	-0.02
42) 2,4,6-Tribromophenol	10.698	330	299422	69.254	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1339380	59.769	ng	-0.01
79) Terphenyl-d14	12.980	244	988345	45.476	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.428	70	95530	11.969	ng	# 76
25) Isophorone	7.428	82	685798	34.281	ng	# 64
51) 2,6-Dinitrotoluene	9.904	165	49641	9.990	ng	# 23
52) Acenaphthene	9.939	154	210604	10.463	ng	99
55) Dibenzofuran	10.110	168	168594	5.862	ng	97
58) Fluorene	10.451	166	253495	11.429	ng	98
63) Azobenzene	10.616	77	58948	2.664	ng	# 1
67) 4-Bromophenyl-phenylether	10.692	248	18383	2.953	ng	# 1
71) Phenanthrene	11.421	178	2213656	82.673	ng	100
72) Anthracene	11.474	178	929173	34.589	ng	99
73) Carbazole	11.621	167	99228	4.283	ng	98
75) Fluoranthene	12.621	202	2174105	76.545	ng	98
77) Benzidine	12.980	184	14739	3.288	ng	# 91
78) Pyrene	12.845	202	1914313	68.875	ng	99
81) Benzo(a)anthracene	14.027	228	861888	40.877	ng	99
83) Chrysene	14.062	228	638872	33.426	ng	97
87) Indeno(1,2,3-cd)pyrene	16.833	276	47330	2.181	ng	97
88) Benzo(b)fluoranthene	15.080	252	1018094	44.290	ng	97
89) Benzo(k)fluoranthene	15.080	252	1018094	51.755	ng	98
90) Benzo(a)pyrene	15.451	252	615132	34.200	ng	98
91) Dibenzo(a,h)anthracene	17.003	278	59980	3.351	ng	# 80
92) Benzo(g,h,i)perylene	17.445	276	228562	12.920	ng	98

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

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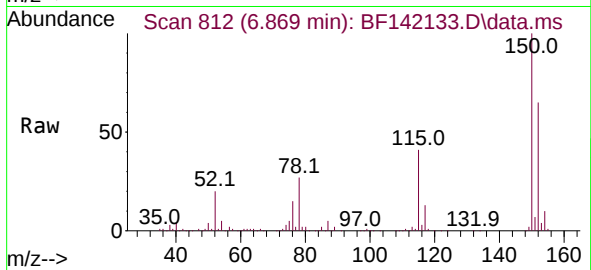
Quant Time: Mar 28 01:56:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
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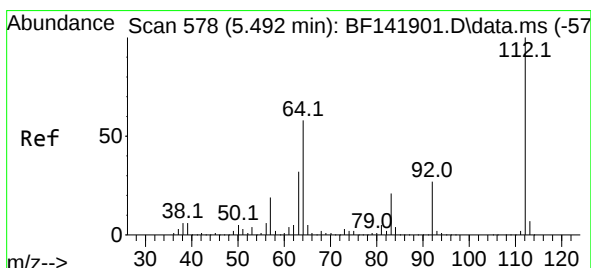
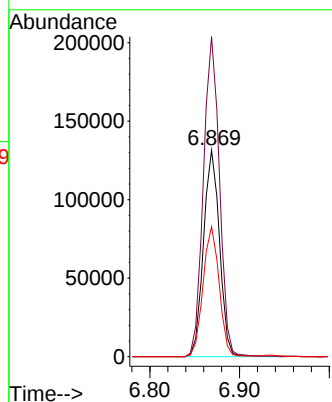
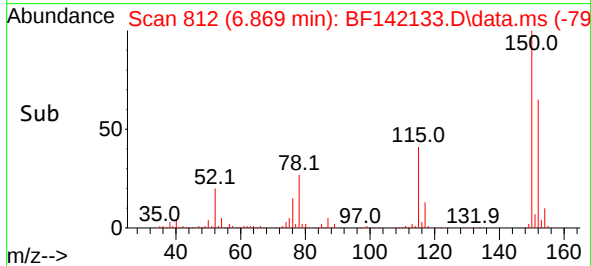


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Instrument :
BNA_F
ClientSampleId :
TP-6

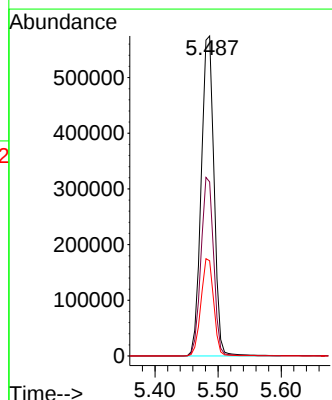
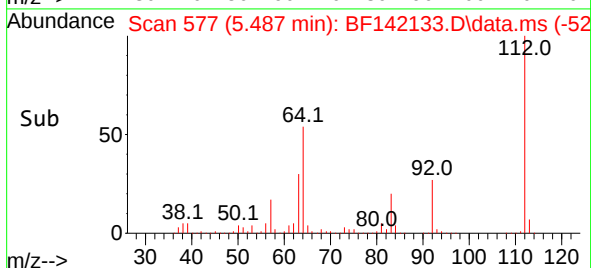
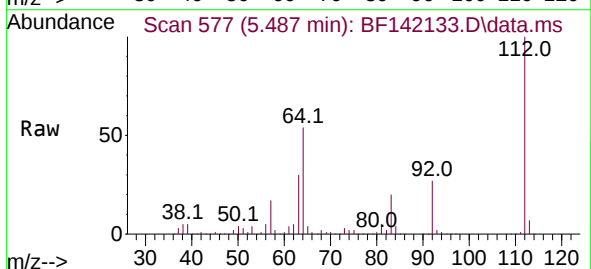


Tgt Ion:152 Resp: 162825
Ion Ratio Lower Upper
152 100
150 154.9 127.4 191.2
115 62.9 51.9 77.9



#5
2-Fluorophenol
Concen: 83.083 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:112 Resp: 810567
Ion Ratio Lower Upper
112 100
64 54.4 46.5 69.7
63 29.8 25.4 38.2



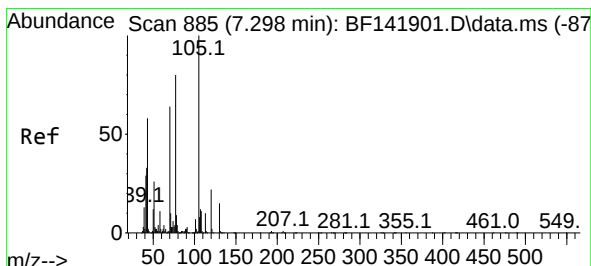
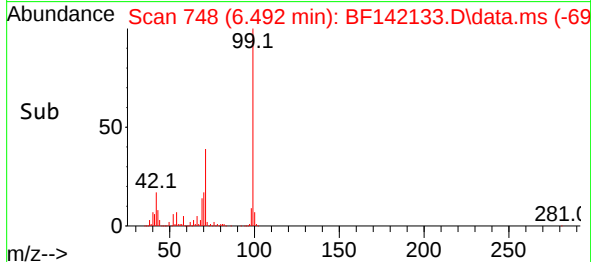
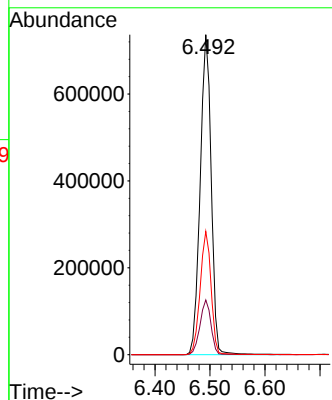
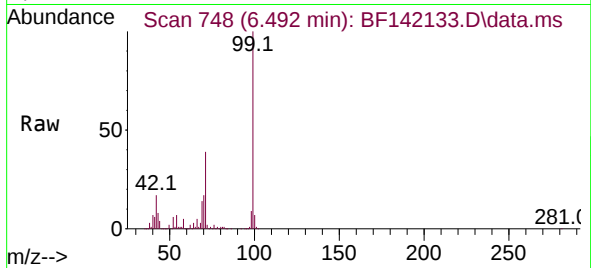


#7
Phenol-d6
Concen: 82.864 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Instrument :
BNA_F
ClientSampleId :
TP-6

Tgt Ion: 99 Resp: 1029310

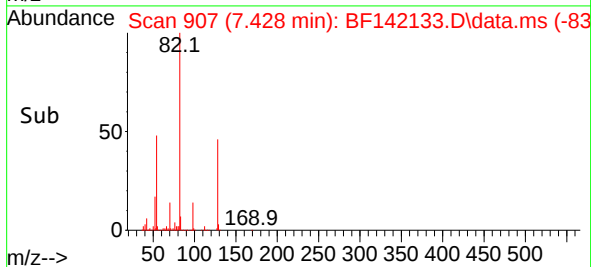
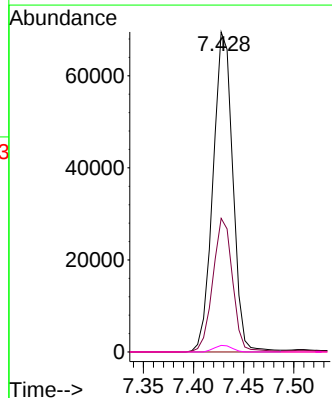
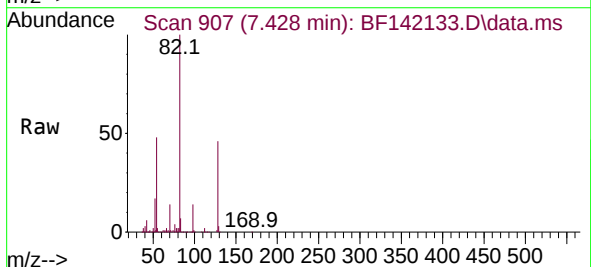
Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.6	21.8
71	38.5	30.8	46.2



#19
n-Nitroso-di-n-propylamine
Concen: 11.969 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.129 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion: 70 Resp: 95530

Ion	Ratio	Lower	Upper
70	100		
42	41.7	41.4	62.0
101	0.0	8.2	12.2#
130	2.1	18.2	27.4#

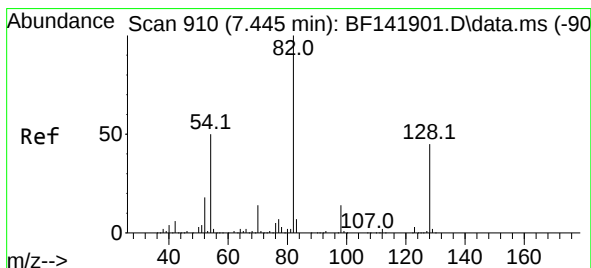
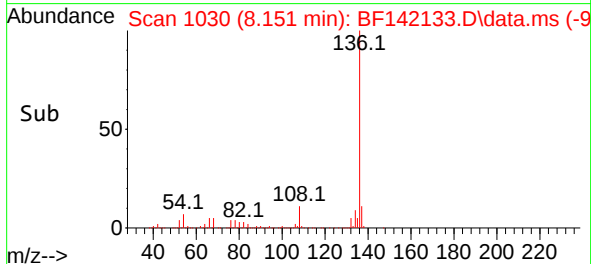
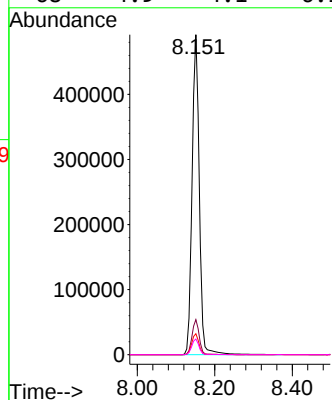
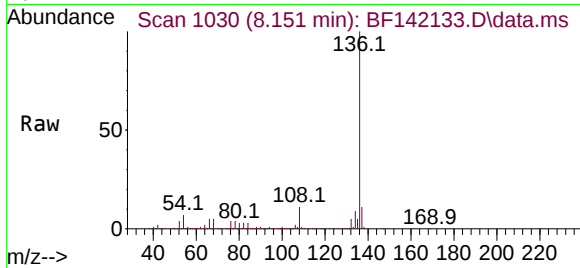




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

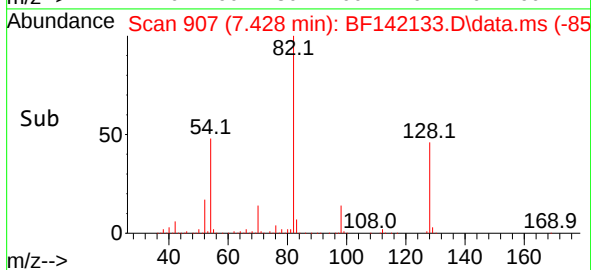
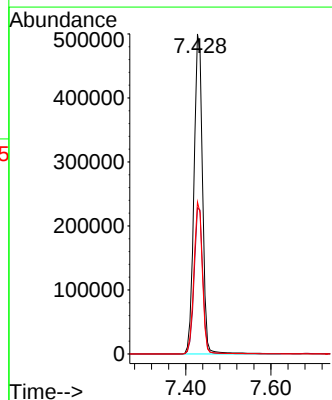
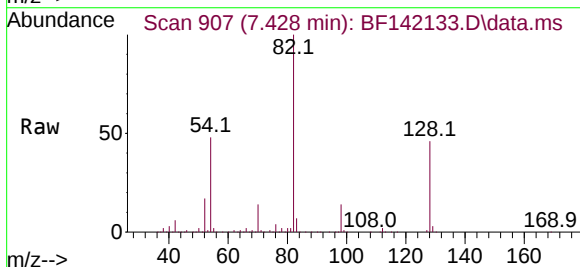
Instrument :
BNA_F
ClientSampleId :
TP-6

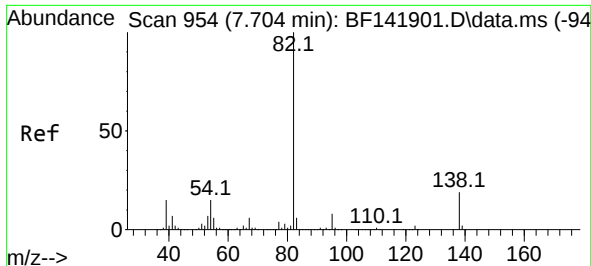
Tgt Ion:	136	Resp:	636889
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	6.5	5.8	8.8
68	4.9	4.1	6.1



#23
Nitrobenzene-d5
Concen: 61.570 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.018 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:	82	Resp:	696806
Ion	Ratio	Lower	Upper
82	100		
128	45.6	36.0	54.0
54	47.5	39.6	59.4

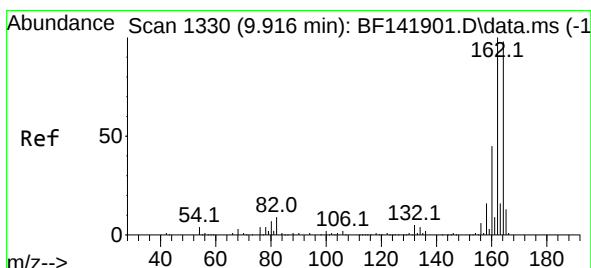
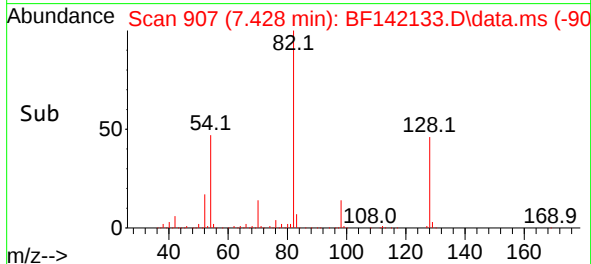
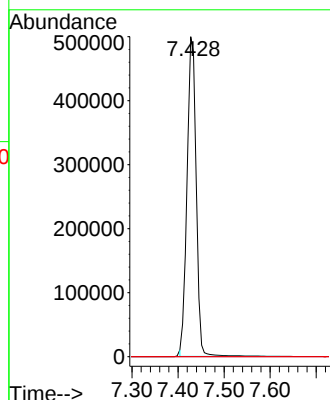
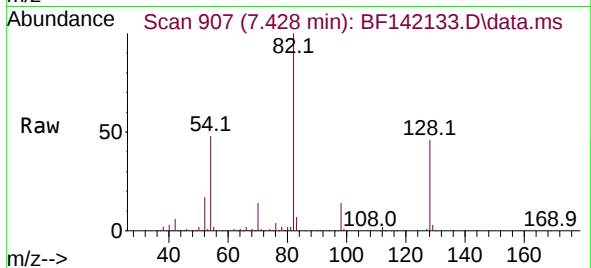




#25
Isophorone
Concen: 34.281 ng
RT: 7.428 min Scan# 90
Delta R.T. -0.277 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

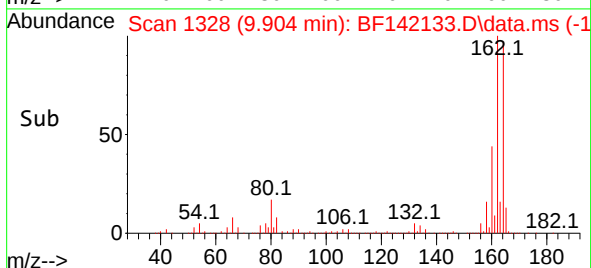
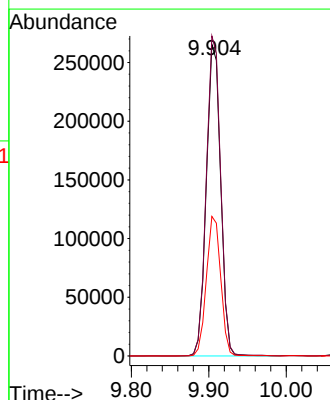
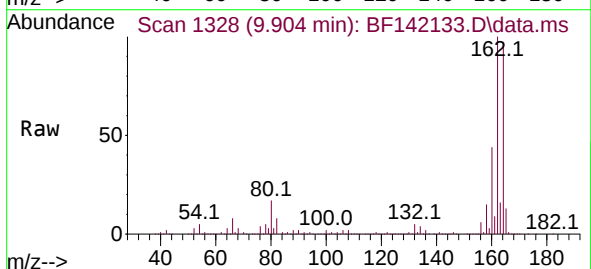
Instrument :
BNA_F
ClientSampleId :
TP-6

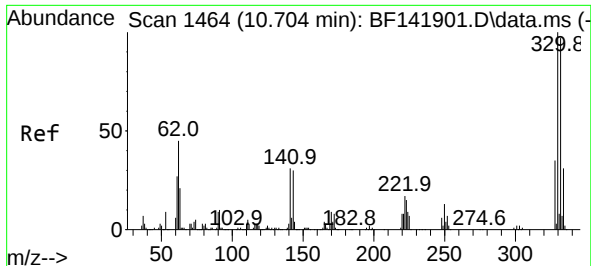
Tgt Ion: 82 Resp: 685798
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 14.9 22.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:164 Resp: 340805
Ion Ratio Lower Upper
164 100
162 102.7 81.8 122.6
160 44.8 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 69.254 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Instrument :

BNA_F

ClientSampleId :

TP-6

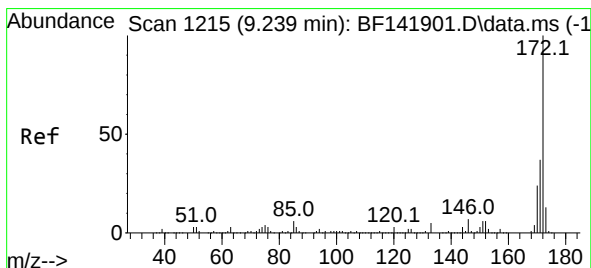
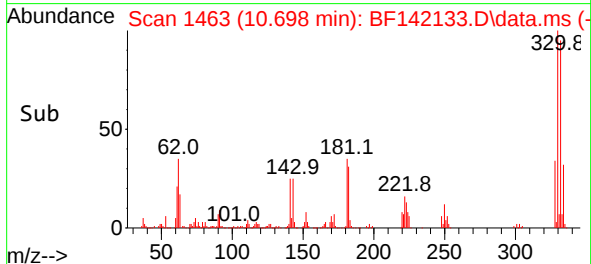
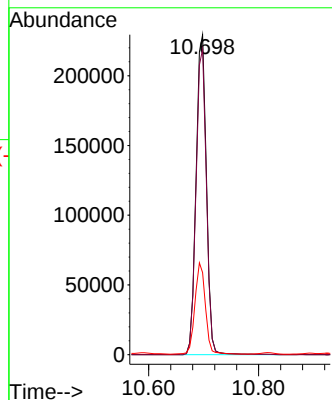
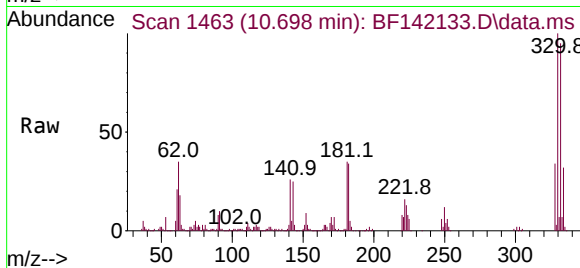
Tgt Ion:330 Resp: 299422

Ion Ratio Lower Upper

330 100

332 95.9 77.6 116.4

141 28.8 24.7 37.1



#45

2-Fluorobiphenyl

Concen: 59.769 ng

RT: 9.227 min Scan# 1213

Delta R.T. -0.012 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

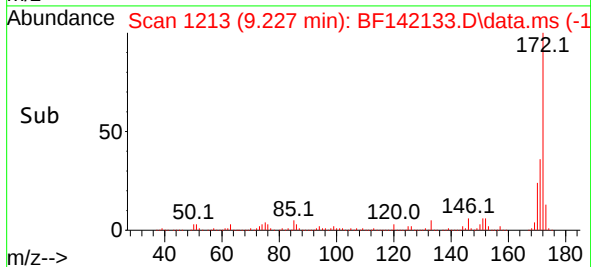
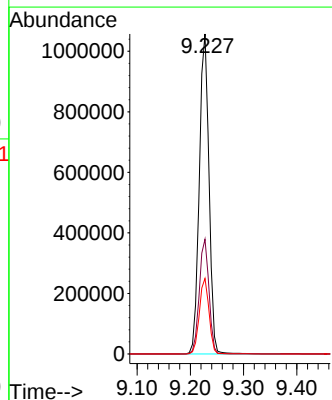
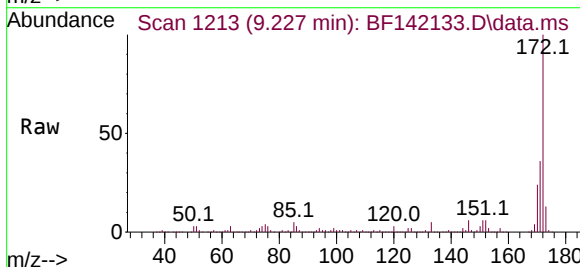
Tgt Ion:172 Resp: 1339380

Ion Ratio Lower Upper

172 100

171 35.9 29.3 43.9

170 23.6 19.4 29.0

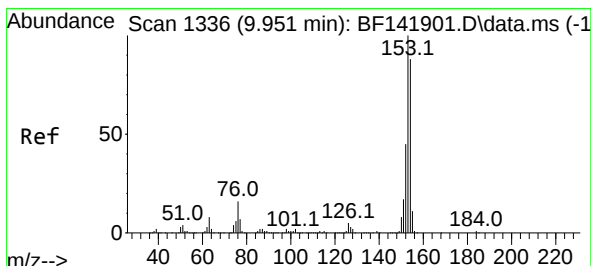
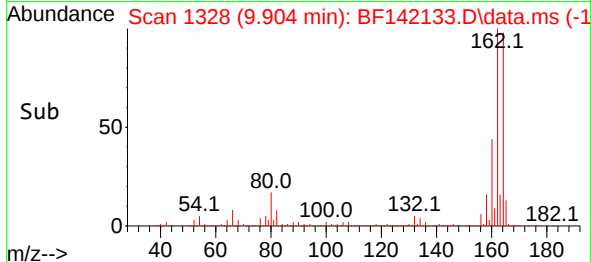
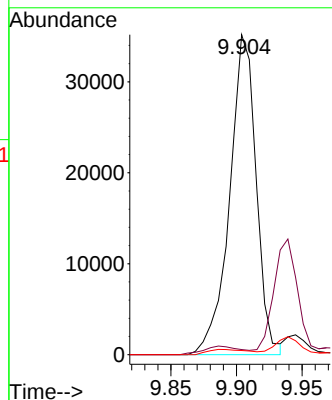
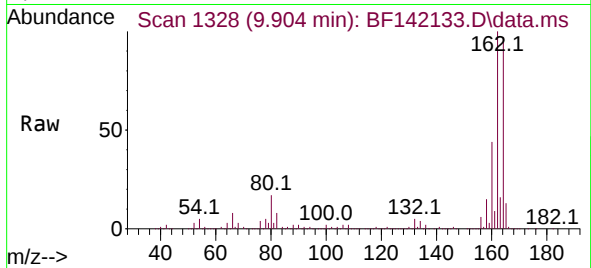




#51
2,6-Dinitrotoluene
Concen: 9.990 ng
RT: 9.904 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

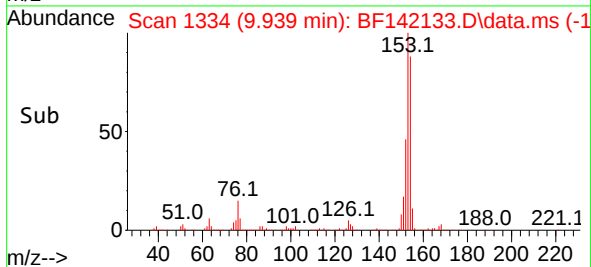
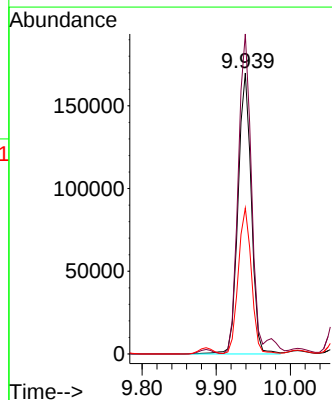
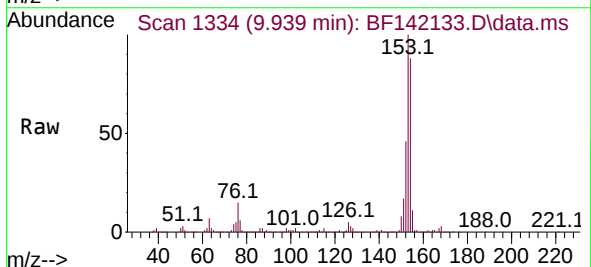
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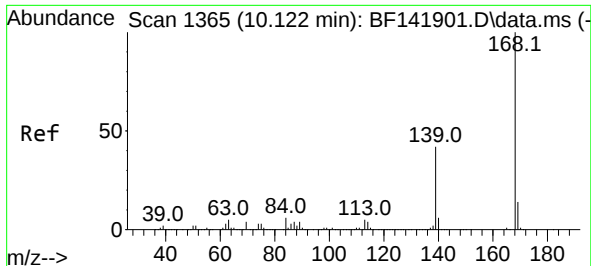
Tgt Ion:165 Resp: 49641
Ion Ratio Lower Upper
165 100
63 1.6 47.0 70.4#
89 1.3 47.4 71.2#



#52
Acenaphthene
Concen: 10.463 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:154 Resp: 210604
Ion Ratio Lower Upper
154 100
153 113.9 90.7 136.1
152 52.0 41.1 61.7

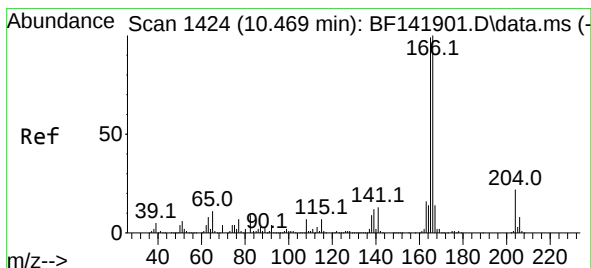
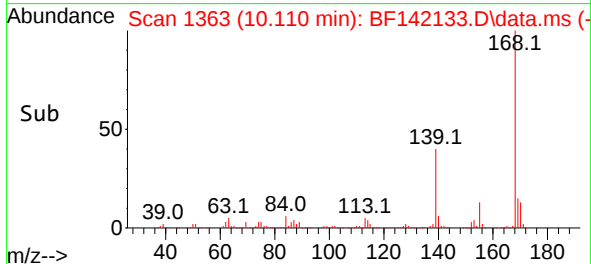
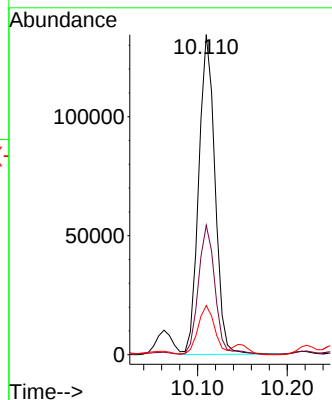
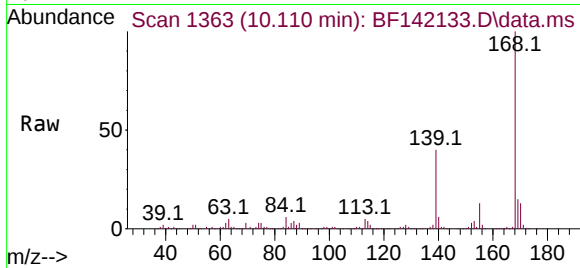




#55
Dibenzenofuran
Concen: 5.862 ng
RT: 10.110 min Scan# 1365
Delta R.T. -0.012 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

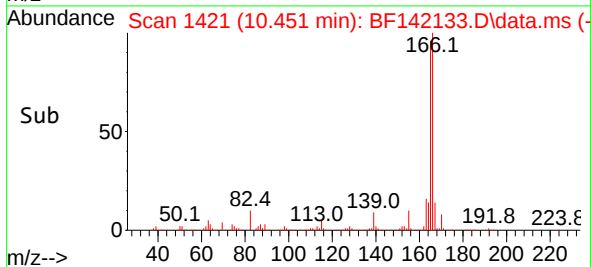
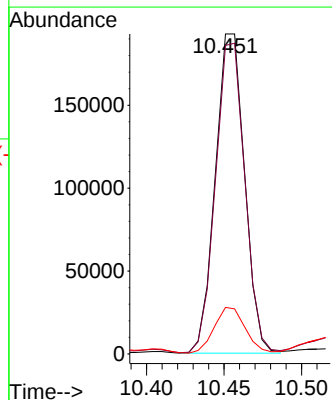
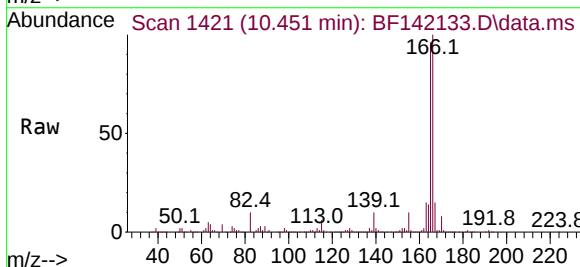
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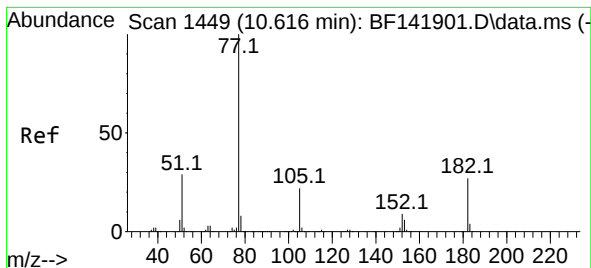
Tgt Ion:168 Resp: 168594
Ion Ratio Lower Upper
168 100
139 40.5 33.9 50.9
169 15.3 11.0 16.4



#58
Fluorene
Concen: 11.429 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.018 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:166 Resp: 253495
Ion Ratio Lower Upper
166 100
165 96.4 79.0 118.4
167 14.5 11.0 16.4





#63

Azobenzene

Concen: 2.664 ng

RT: 10.616 min Scan# 1449

Delta R.T. -0.000 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Instrument :

BNA_F

ClientSampleId :

TP-6

Tgt Ion: 77 Resp: 58948

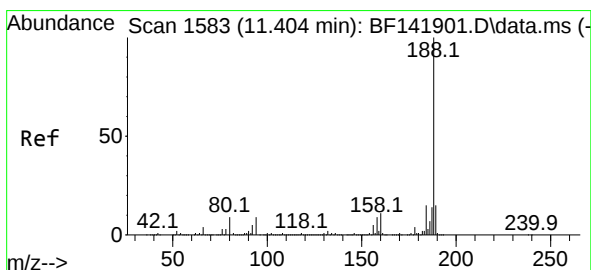
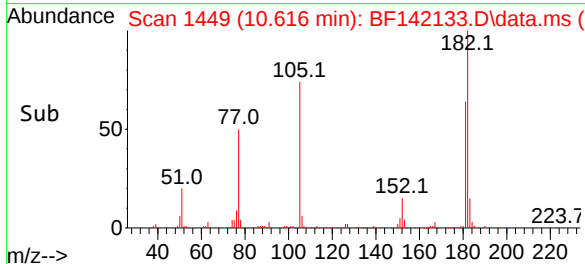
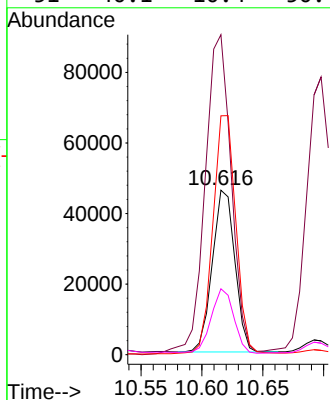
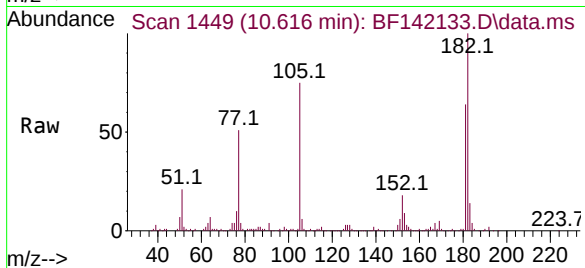
Ion Ratio Lower Upper

77 100

182 194.6 6.6 46.6#

105 145.3 1.3 41.3#

51 40.1 10.4 50.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

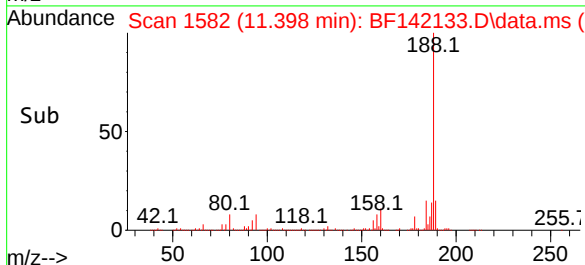
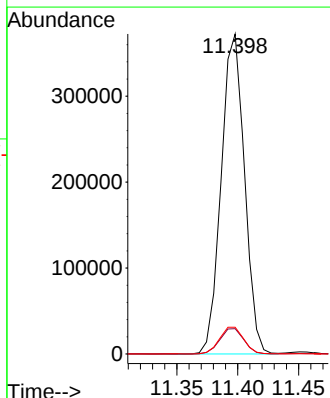
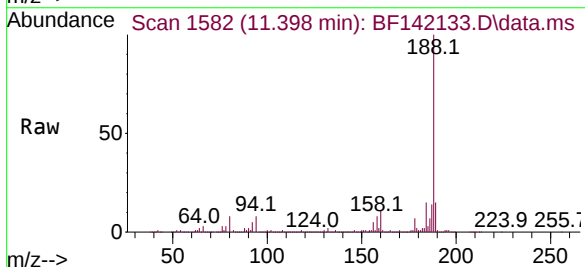
Tgt Ion: 188 Resp: 495730

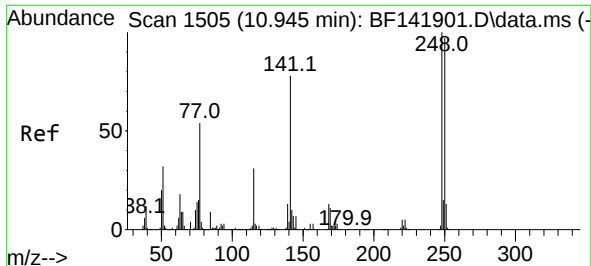
Ion Ratio Lower Upper

188 100

94 7.9 6.8 10.2

80 8.4 7.6 11.4

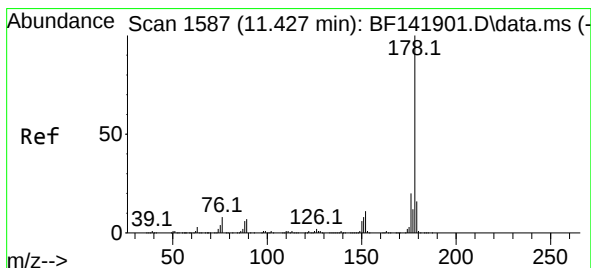
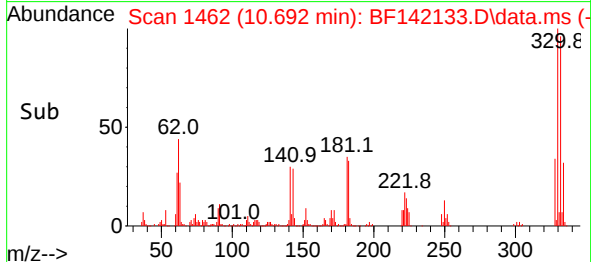
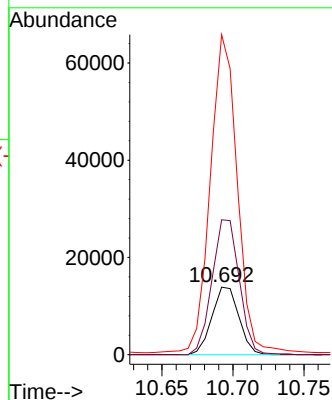
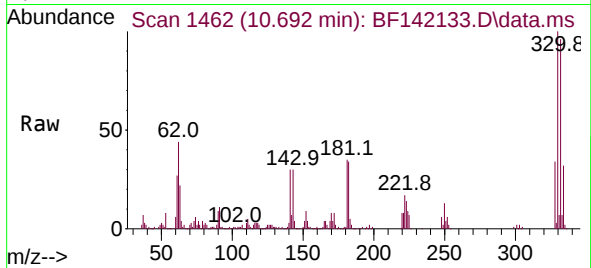




#67
4-Bromophenyl-phenylether
Concen: 2.953 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.253 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

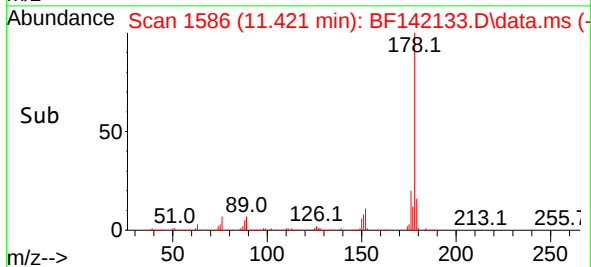
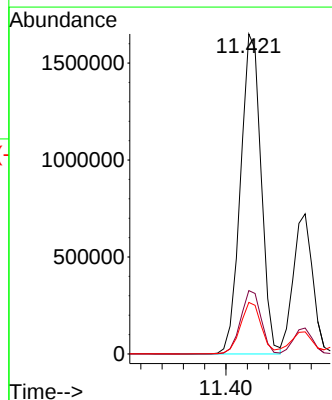
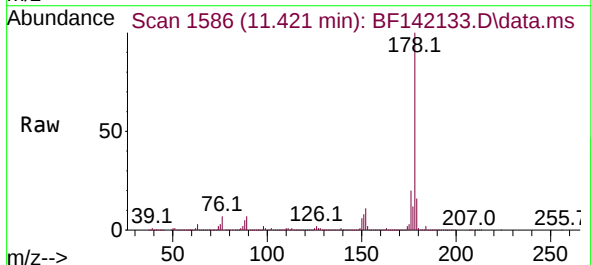
Instrument :
BNA_F
ClientSampleId :
TP-6

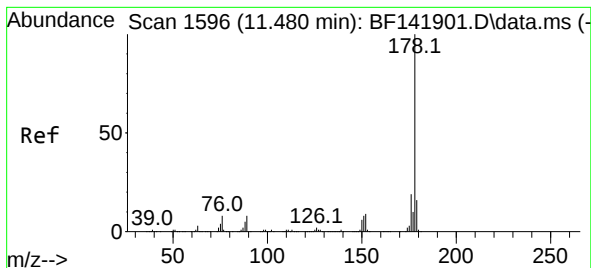
Tgt Ion:248 Resp: 18383
Ion Ratio Lower Upper
248 100
250 199.7 77.8 116.8#
141 473.5 62.6 93.8#



#71
Phenanthrene
Concen: 82.673 ng
RT: 11.421 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:178 Resp: 2213656
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 16.1 12.6 19.0





#72

Anthracene

Concen: 34.589 ng

RT: 11.474 min Scan# 1595

Delta R.T. -0.006 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Instrument :

BNA_F

ClientSampleId :

TP-6

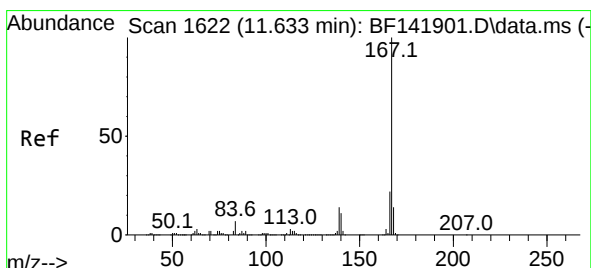
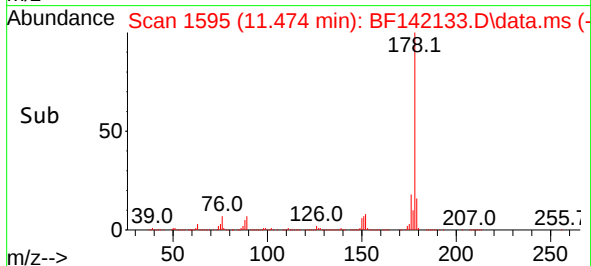
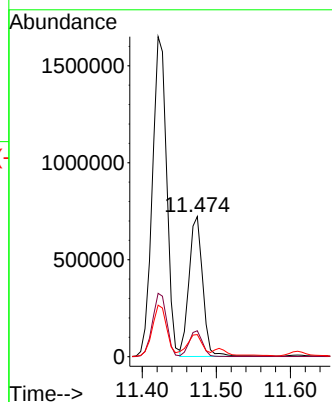
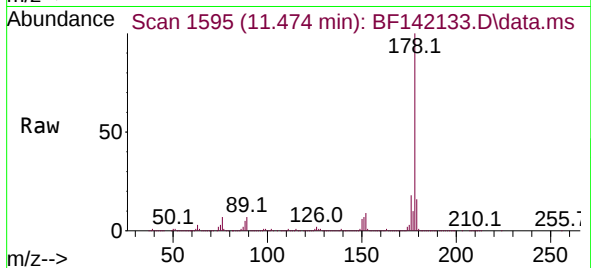
Tgt Ion:178 Resp: 929173

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

179 15.7 12.6 19.0



#73

Carbazole

Concen: 4.283 ng

RT: 11.621 min Scan# 1620

Delta R.T. -0.012 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

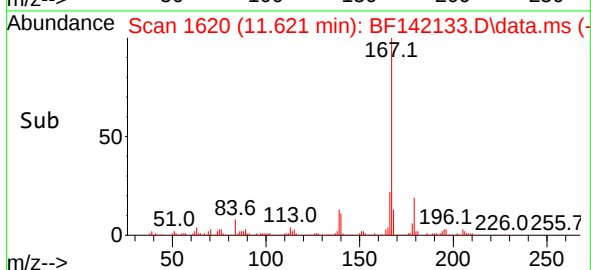
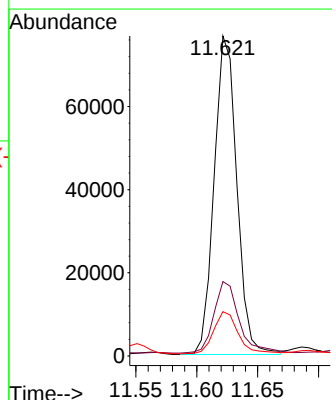
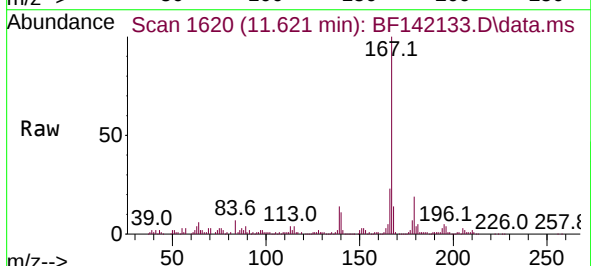
Tgt Ion:167 Resp: 99228

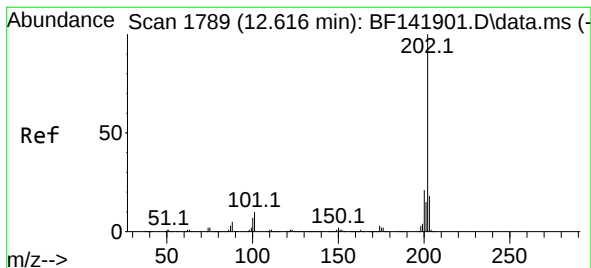
Ion Ratio Lower Upper

167 100

166 23.3 17.4 26.2

139 13.8 11.0 16.6





#75

Fluoranthene

Concen: 76.545 ng

RT: 12.621 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Instrument :

BNA_F

ClientSampleId :

TP-6

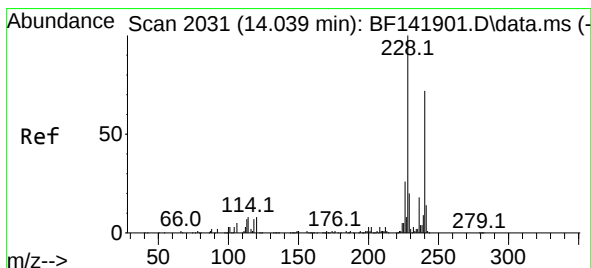
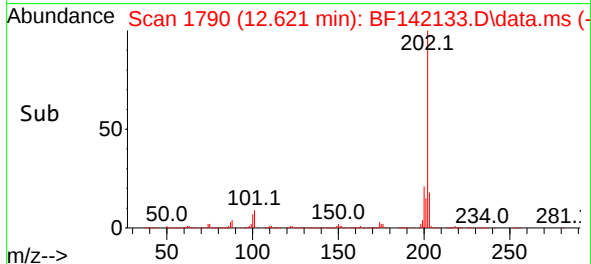
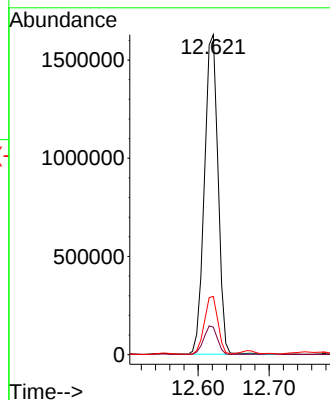
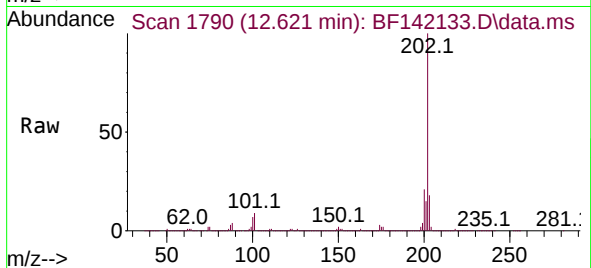
Tgt Ion:202 Resp: 2174105

Ion Ratio Lower Upper

202 100

101 8.6 0.0 29.7

203 18.2 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2031

Delta R.T. -0.000 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

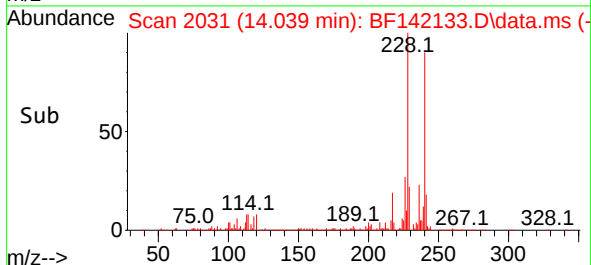
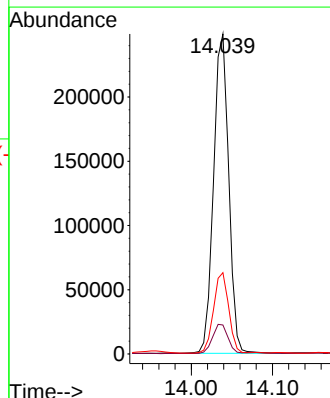
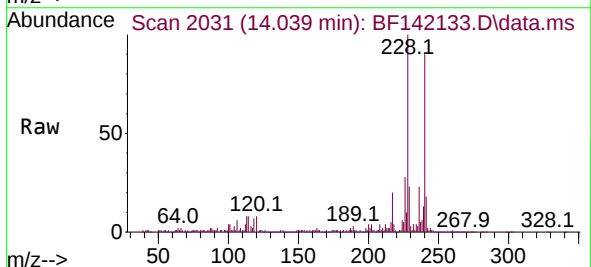
Tgt Ion:240 Resp: 321316

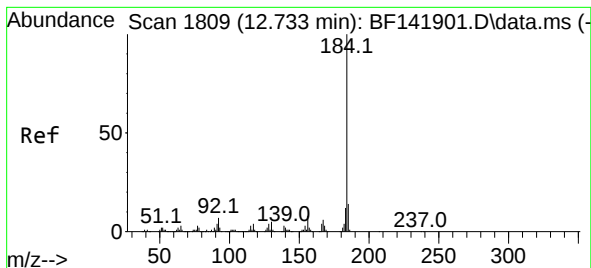
Ion Ratio Lower Upper

240 100

120 9.1 8.4 12.6

236 25.4 20.5 30.7





#77

Benzidine

Concen: 3.288 ng

RT: 12.980 min Scan# 1851

Delta R.T. 0.247 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Instrument :

BNA_F

ClientSampleId :

TP-6

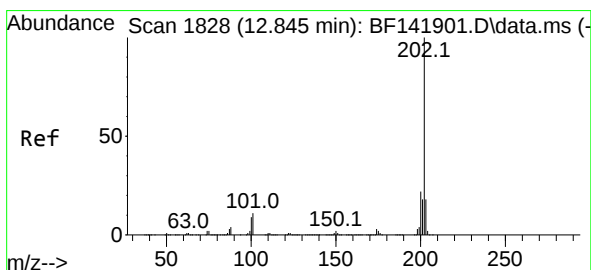
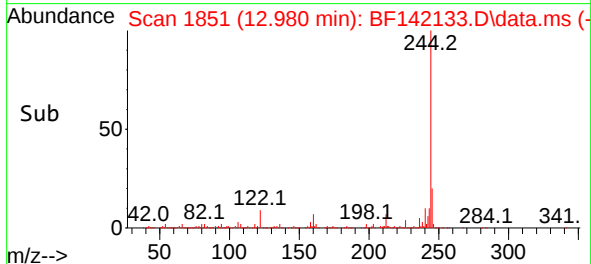
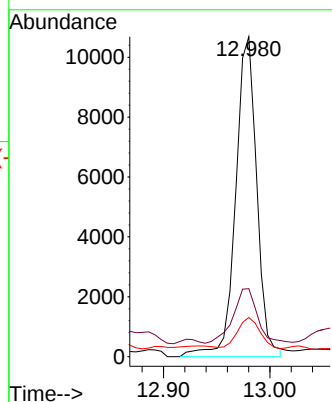
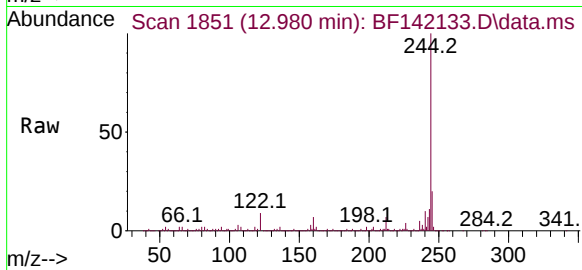
Tgt Ion:184 Resp: 14739

Ion Ratio Lower Upper

184 100

185 21.2 11.5 17.3#

183 12.3 9.7 14.5



#78

Pyrene

Concen: 68.875 ng

RT: 12.845 min Scan# 1828

Delta R.T. -0.000 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

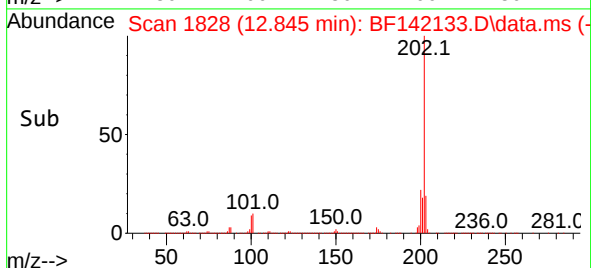
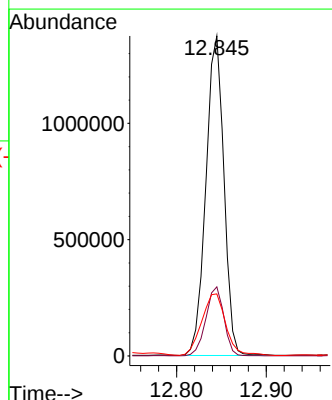
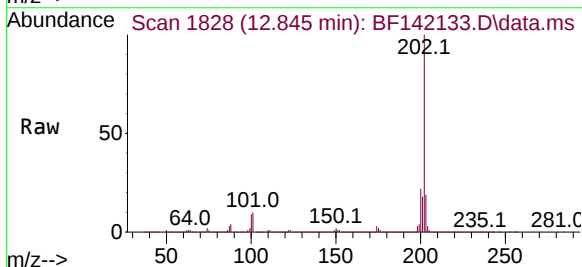
Tgt Ion:202 Resp: 1914313

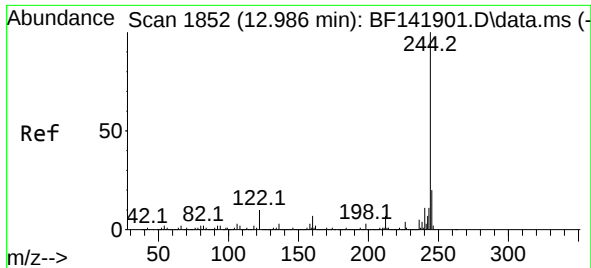
Ion Ratio Lower Upper

202 100

200 21.6 17.3 25.9

203 19.4 14.4 21.6

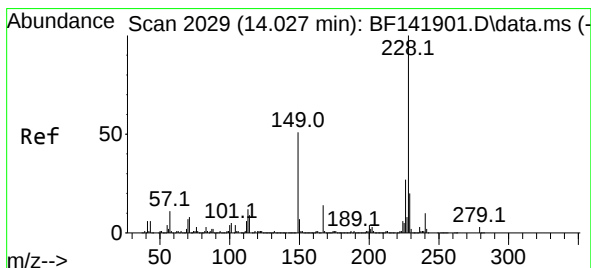
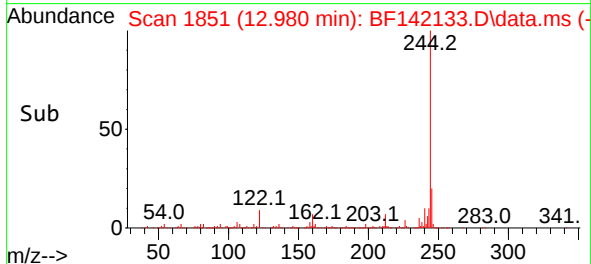
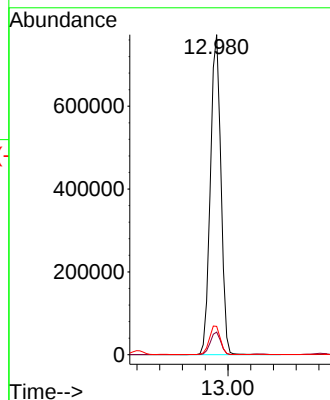
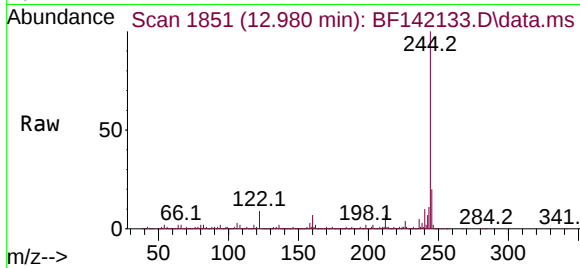




#79
 Terphenyl-d14
 Concen: 45.476 ng
 RT: 12.980 min Scan# 1851
 Delta R.T. -0.006 min
 Lab File: BF142133.D
 Acq: 27 Mar 2025 19:14

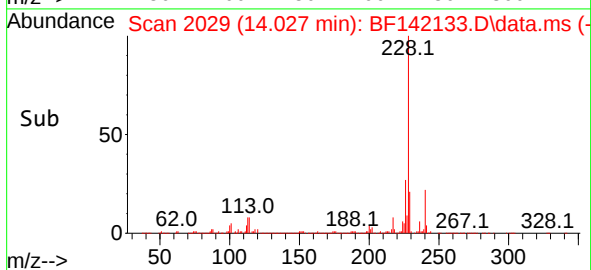
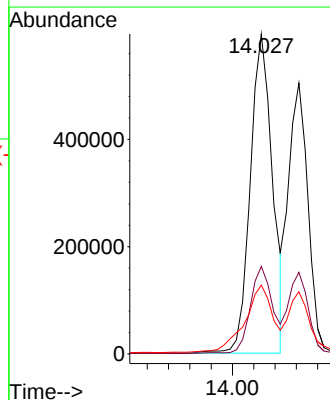
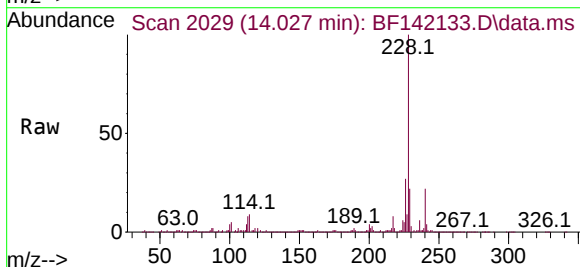
Instrument :
 BNA_F
 ClientSampleId :
 TP-6

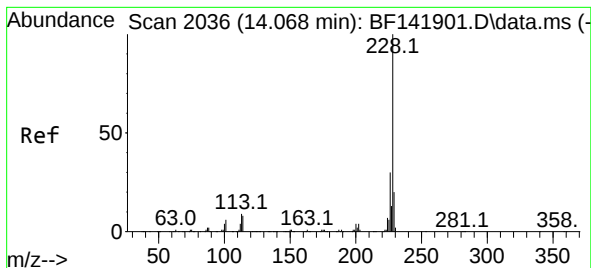
Tgt Ion:244 Resp: 988345
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.0 9.0
 122 8.9 7.7 11.5



#81
 Benzo(a)anthracene
 Concen: 40.877 ng
 RT: 14.027 min Scan# 2029
 Delta R.T. -0.000 min
 Lab File: BF142133.D
 Acq: 27 Mar 2025 19:14

Tgt Ion:228 Resp: 861888
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.8 32.8
 229 21.5 16.0 24.0





#83

Chrysene

Concen: 33.426 ng

RT: 14.062 min Scan# 2036

Delta R.T. -0.006 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Instrument :

BNA_F

ClientSampleId :

TP-6

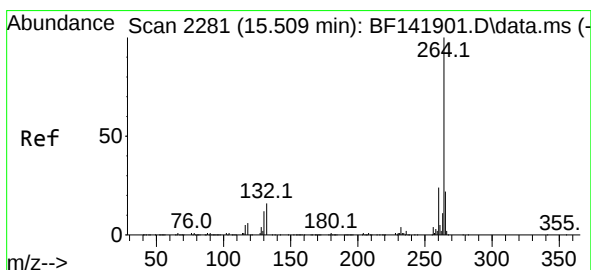
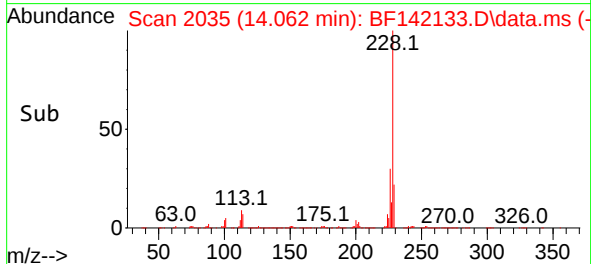
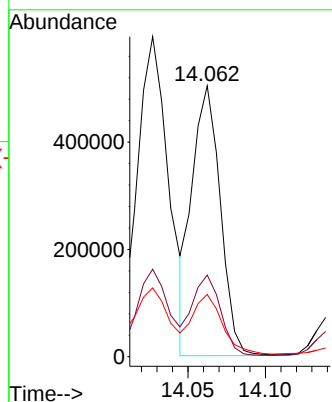
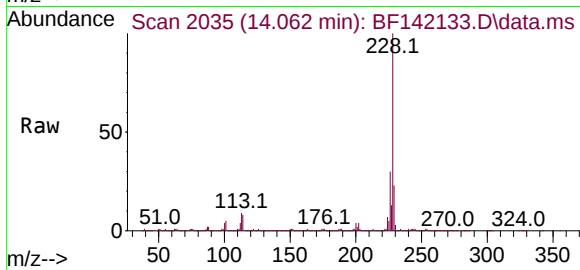
Tgt Ion:228 Resp: 638872

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 23.0 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 2281

Delta R.T. -0.000 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

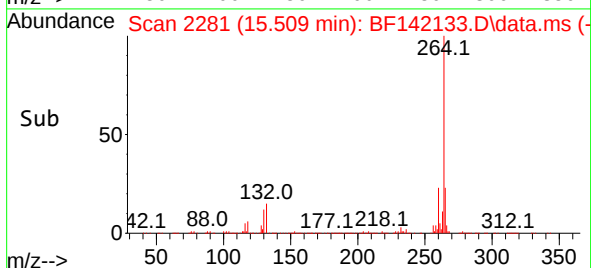
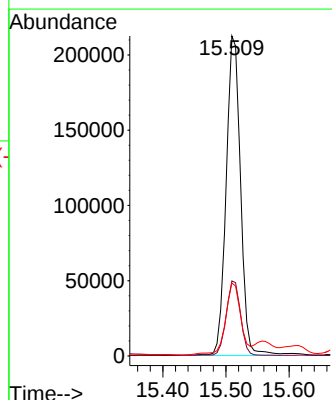
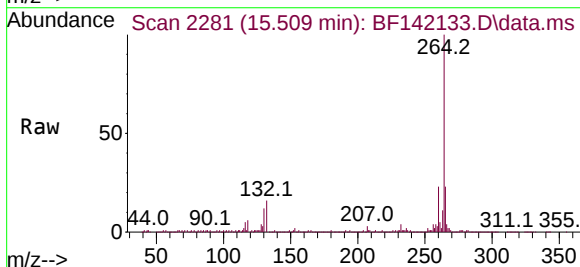
Tgt Ion:264 Resp: 335401

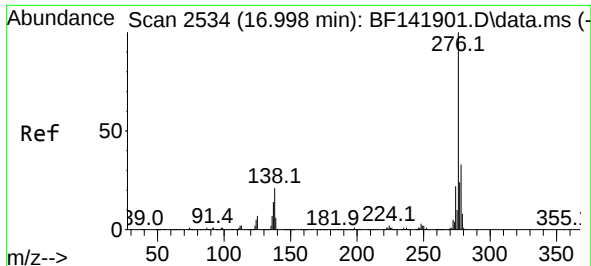
Ion Ratio Lower Upper

264 100

260 23.4 19.1 28.7

265 22.8 17.5 26.3

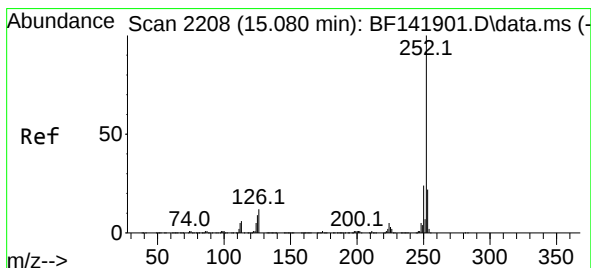
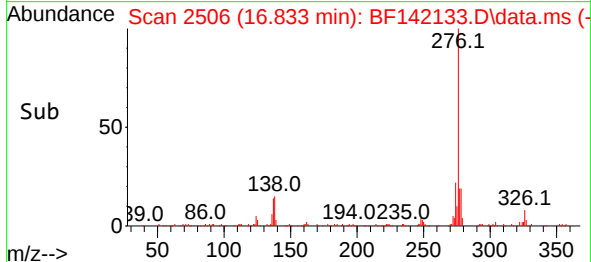
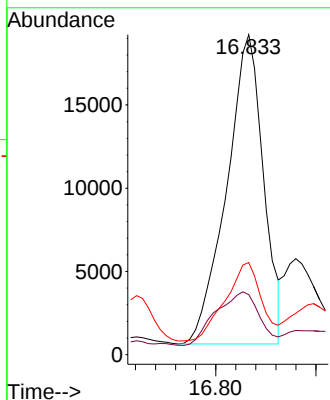
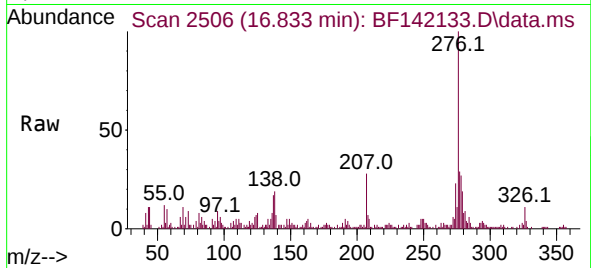




#87
Indeno(1,2,3-cd)pyrene
Concen: 2.181 ng
RT: 16.833 min Scan# 2506
Delta R.T. -0.165 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

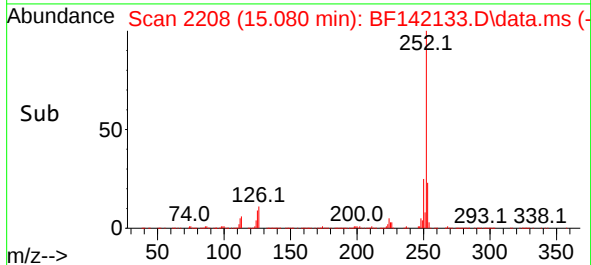
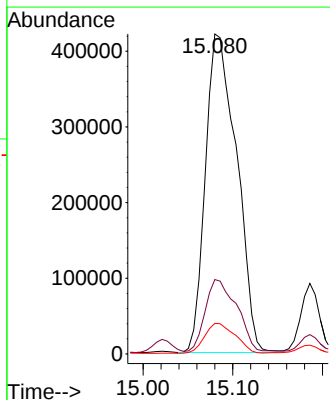
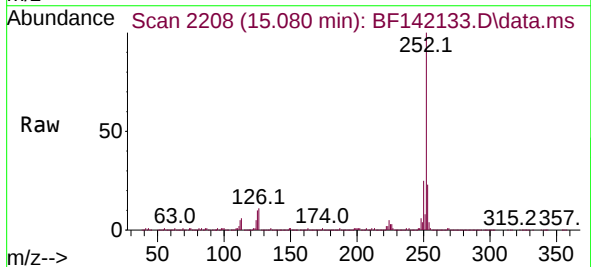
Instrument :
BNA_F
ClientSampleId :
TP-6

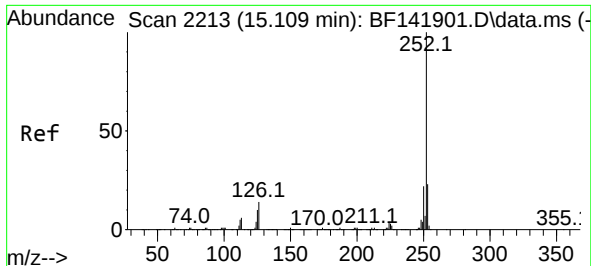
Tgt Ion:276 Resp: 47330
Ion Ratio Lower Upper
276 100
138 20.5 18.4 27.6
277 25.0 20.3 30.5



#88
Benzo(b)fluoranthene
Concen: 44.290 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.000 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:252 Resp: 1018094
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 9.5 7.0 10.4

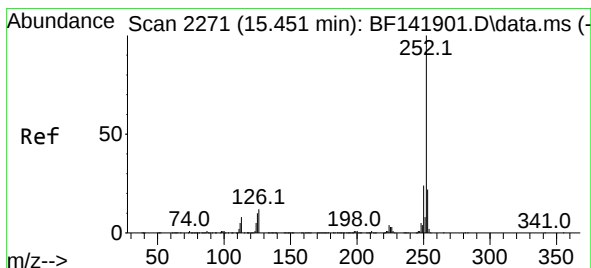
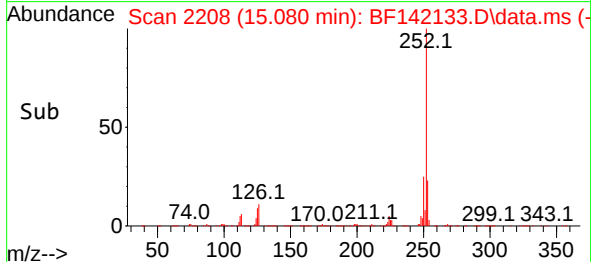
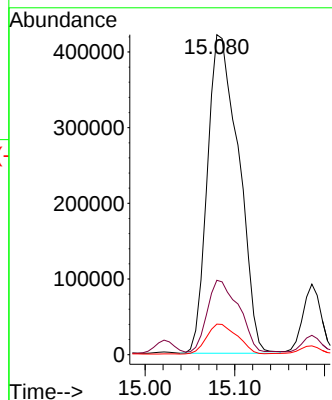
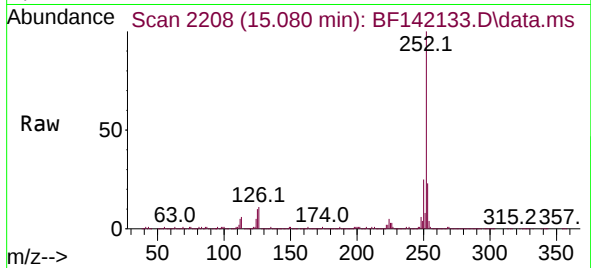




#89
Benzo(k)fluoranthene
Concen: 51.755 ng
RT: 15.080 min Scan# 2213
Delta R.T. -0.029 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

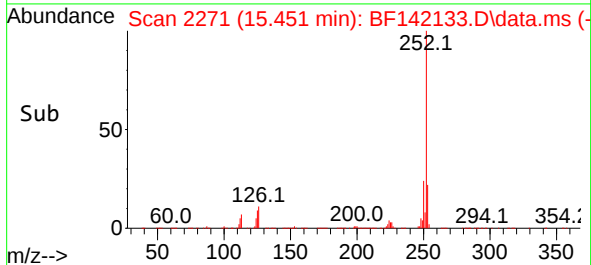
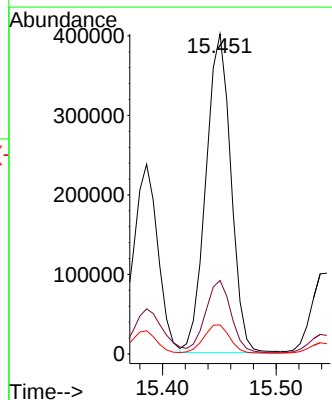
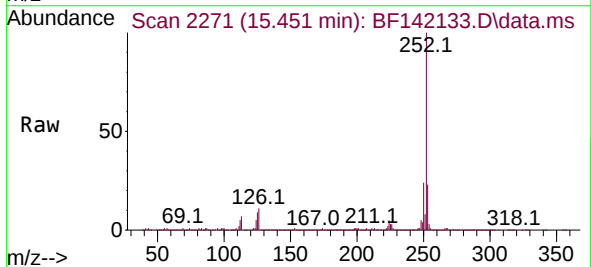
Instrument :
BNA_F
ClientSampleId :
TP-6

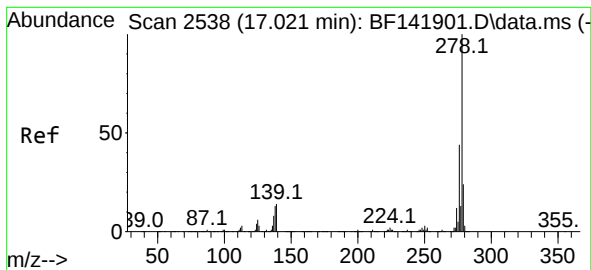
Tgt Ion:252 Resp: 1018094
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 9.5 7.2 10.8



#90
Benzo(a)pyrene
Concen: 34.200 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.000 min
Lab File: BF142133.D
Acq: 27 Mar 2025 19:14

Tgt Ion:252 Resp: 615132
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.0
125 9.1 7.8 11.8





#91

Dibenzo(a,h)anthracene

Concen: 3.351 ng

RT: 17.003 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Instrument :

BNA_F

ClientSampleId :

TP-6

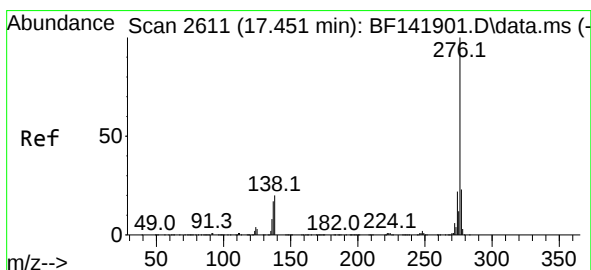
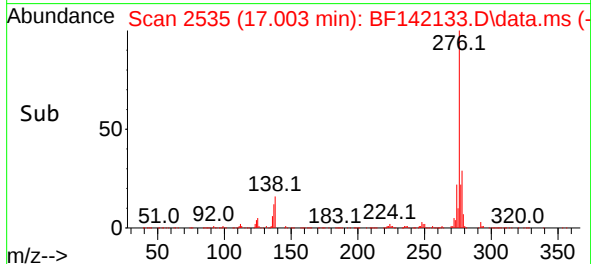
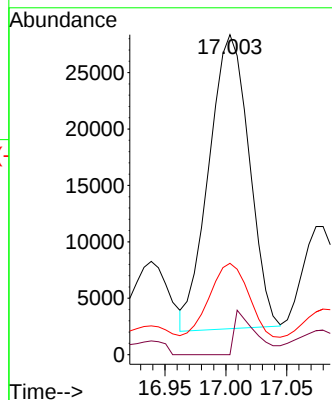
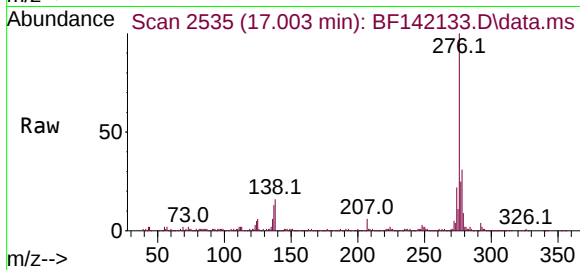
Tgt Ion:278 Resp: 59980

Ion Ratio Lower Upper

278 100

139 0.0 11.4 17.2#

279 28.5 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 12.920 ng

RT: 17.445 min Scan# 2610

Delta R.T. -0.006 min

Lab File: BF142133.D

Acq: 27 Mar 2025 19:14

Tgt Ion:276 Resp: 228562

Ion Ratio Lower Upper

276 100

277 24.1 18.7 28.1

138 18.6 15.8 23.8

