

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141839.D
 Acq On : 05 Mar 2025 12:15
 Operator : RC/JU
 Sample : Q1480-01DL 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-1DL

Quant Time: Mar 05 12:32:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

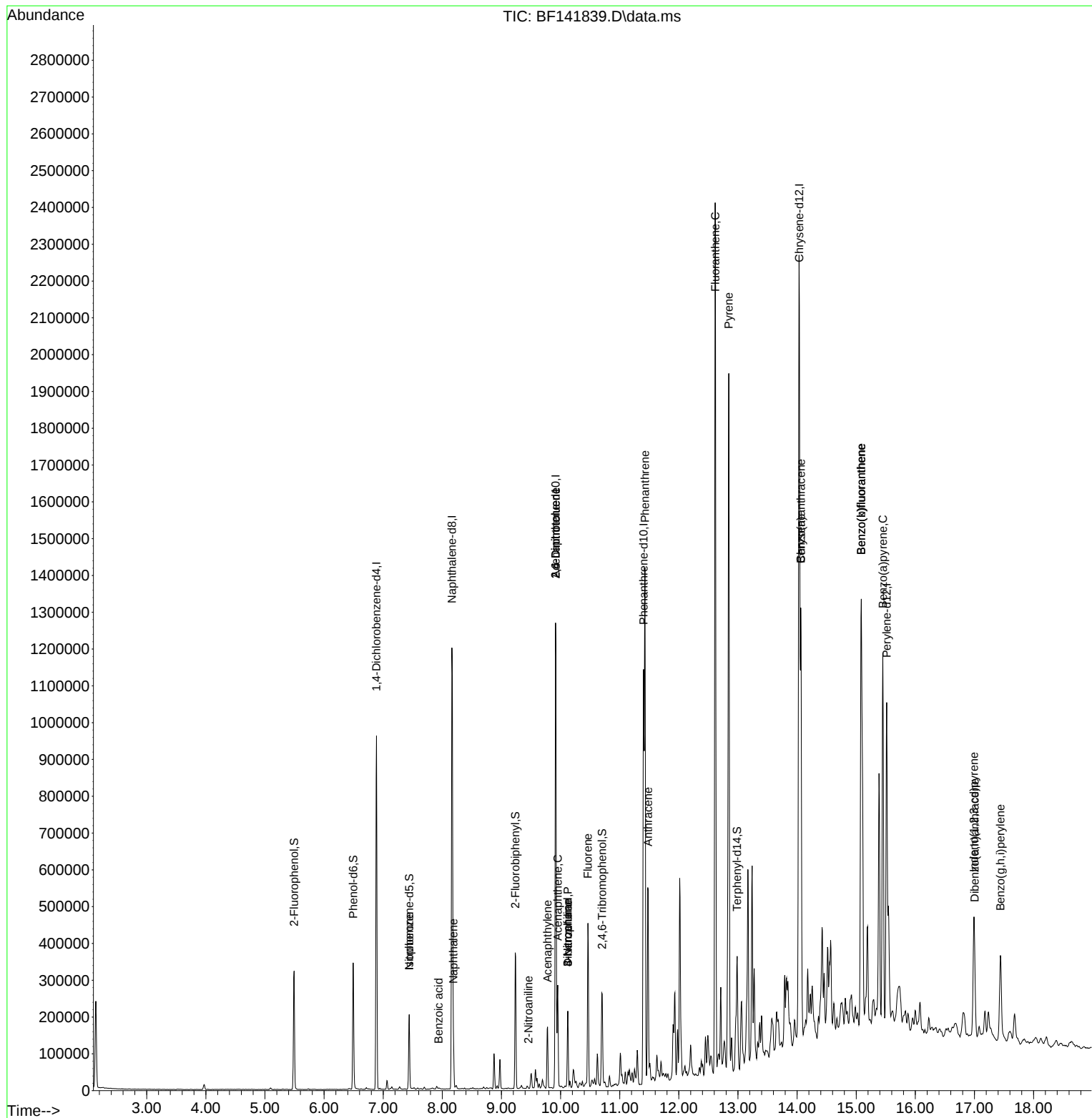
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	195801	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	748972	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	370574	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	542454	20.000	ng	0.00
76) Chrysene-d12	14.039	240	459293	20.000	ng	-0.01
86) Perylene-d12	15.515	264	492848	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	118998	9.706	ng	0.00
7) Phenol-d6	6.492	99	150070	9.404	ng	-0.02
23) Nitrobenzene-d5	7.439	82	86161	7.353	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	27749	7.976	ng	-0.01
45) 2-Fluorobiphenyl	9.233	172	164022	7.097	ng	-0.01
79) Terphenyl-d14	12.986	244	132515	4.668	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.439	82	86159	3.423	ng	# 66
31) Naphthalene	8.186	128	77588	2.016	ng	98
32) Benzoic acid	7.939	122	629	7.759	ng	# 33
48) 2-Nitroaniline	9.457	65	111	4.357	ng	# 6
49) Acenaphthylene	9.780	152	96683	3.097	ng	97
51) 2,6-Dinitrotoluene	9.916	165	49304	12.602	ng	# 21
52) Acenaphthene	9.951	154	85422	4.056	ng	99
53) 3-Nitroaniline	10.122	138	1593	3.262	ng	# 12
55) Dibenzofuran	10.122	168	106080	3.460	ng	96
56) 4-Nitrophenol	10.122	139	40399	11.022	ng	# 6
57) 2,4-Dinitrotoluene	9.916	165	49305	11.403	ng	# 20
58) Fluorene	10.463	166	175119	7.626	ng	100
71) Phenanthrene	11.427	178	717588	24.731	ng	99
72) Anthracene	11.480	178	308116	10.595	ng	98
75) Fluoranthene	12.616	202	1292677	43.478	ng	99
78) Pyrene	12.845	202	1049793	26.395	ng	99
81) Benzo(a)anthracene	14.063	228	547469	18.046	ng	95
83) Chrysene	14.063	228	547469	19.577	ng	98
87) Indeno(1,2,3-cd)pyrene	16.992	276	242413	7.724	ng	94
88) Benzo(b)fluoranthene	15.086	252	1079711	32.162	ng	98
89) Benzo(k)fluoranthene	15.086	252	1079711	37.839	ng	98
90) Benzo(a)pyrene	15.451	252	581280	21.590	ng	99
91) Dibenzo(a,h)anthracene	17.003	278	71041	2.773	ng	95
92) Benzo(g,h,i)perylene	17.439	276	201071	7.662	ng	99

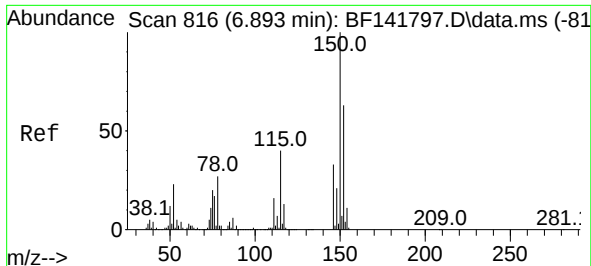
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141839.D
Acq On : 05 Mar 2025 12:15
Operator : RC/JU
Sample : Q1480-01DL 10X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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TP-1DL

Quant Time: Mar 05 12:32:53 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

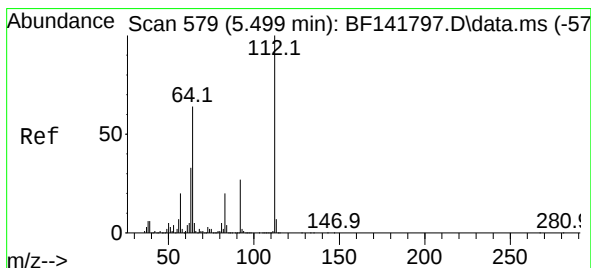
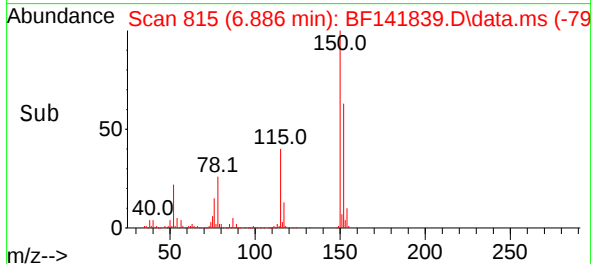
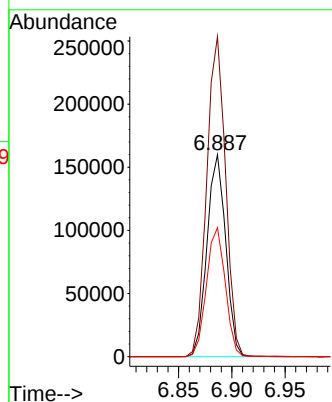
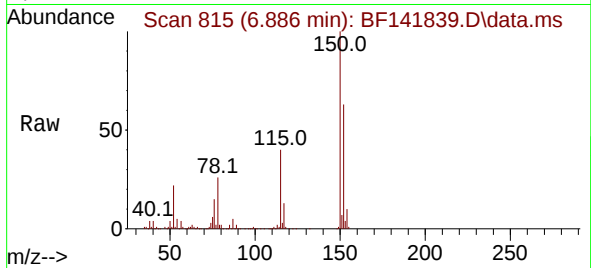




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

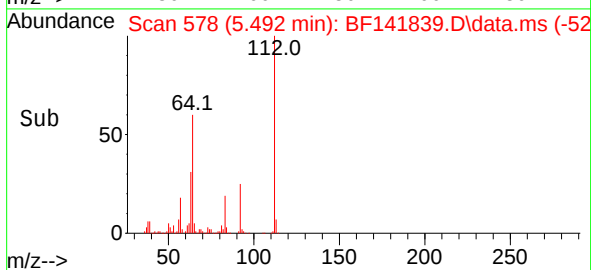
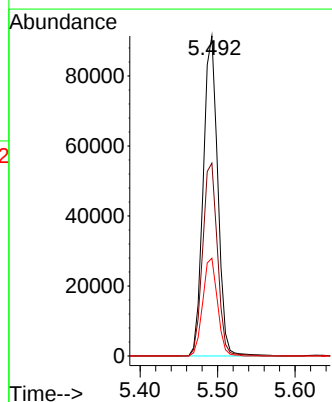
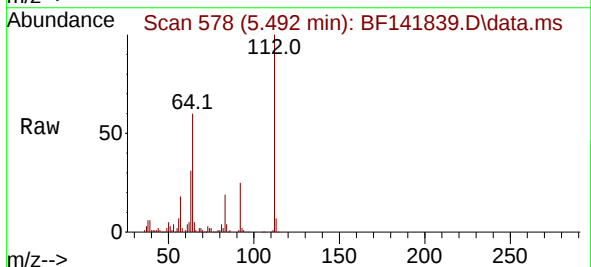
Instrument :
BNA_F
ClientSampleId :
TP-1DL

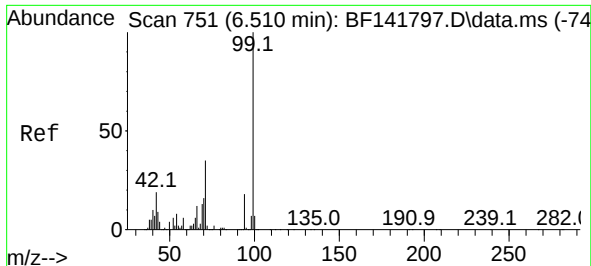
Tgt Ion:152 Resp: 195801
Ion Ratio Lower Upper
152 100
150 158.5 127.5 191.3
115 63.9 51.4 77.2



#5
2-Fluorophenol
Concen: 9.706 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

Tgt Ion:112 Resp: 118998
Ion Ratio Lower Upper
112 100
64 60.3 51.3 76.9
63 30.5 26.2 39.4

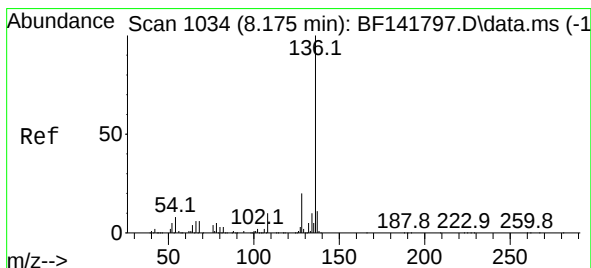
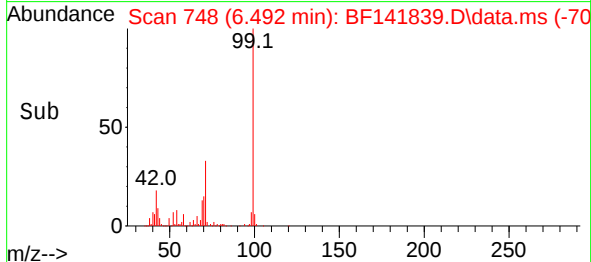
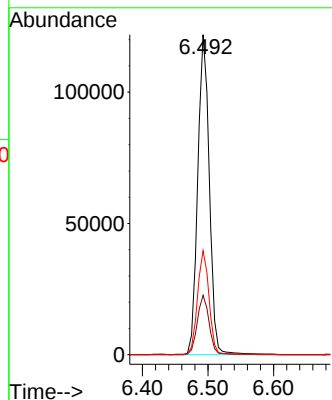
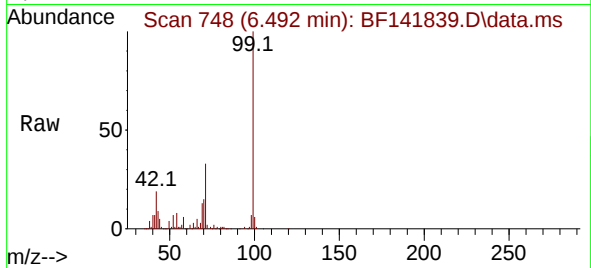




#7
Phenol-d6
Concen: 9.404 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.018 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

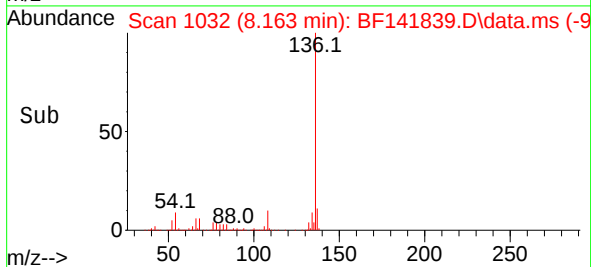
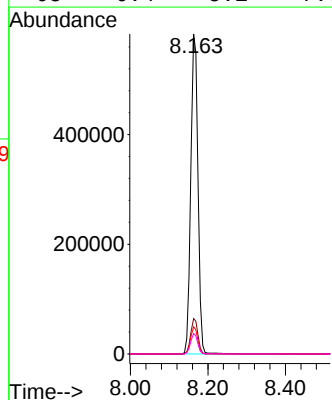
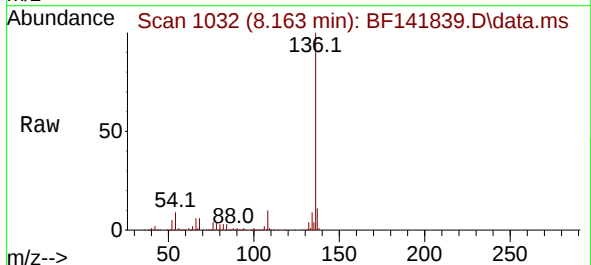
Instrument :
BNA_F
ClientSampleId :
TP-1DL

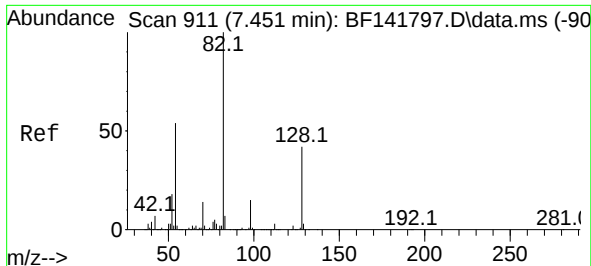
Tgt Ion: 99 Resp: 150070
Ion Ratio Lower Upper
99 100
42 18.6 15.2 22.8
71 32.5 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

Tgt Ion:136 Resp: 748972
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.5 6.9 10.3
68 6.4 5.1 7.7





#23

Nitrobenzene-d5

Concen: 7.353 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

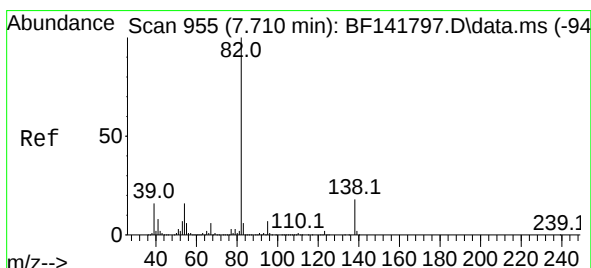
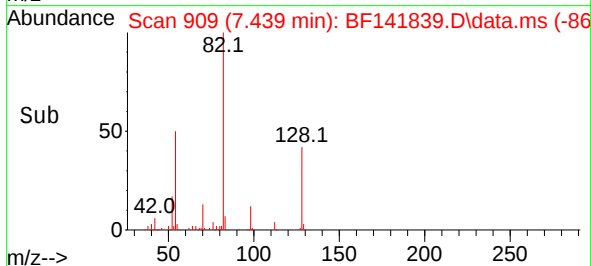
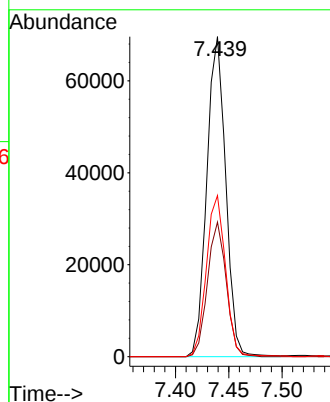
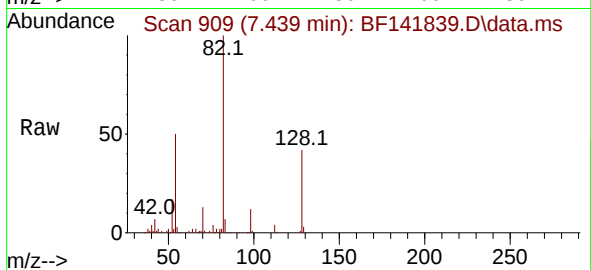
Tgt Ion: 82 Resp: 86161

Ion Ratio Lower Upper

82 100

128 42.1 33.5 50.3

54 50.4 42.7 64.1



#25

Isophorone

Concen: 3.423 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.271 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

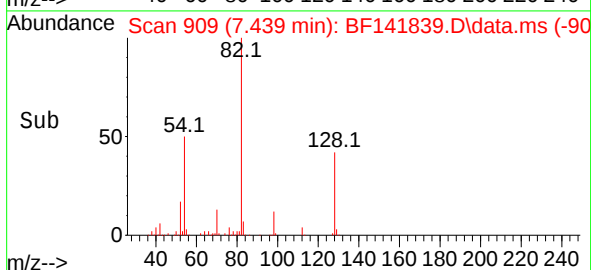
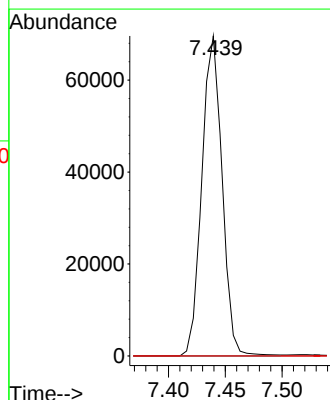
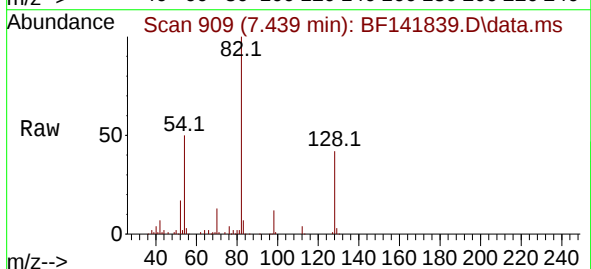
Tgt Ion: 82 Resp: 86159

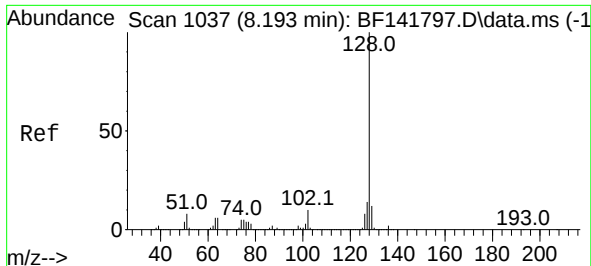
Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

138 0.0 14.0 21.0#

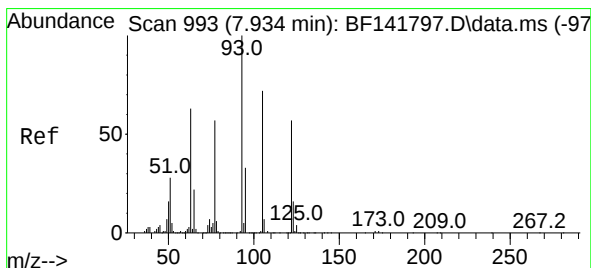
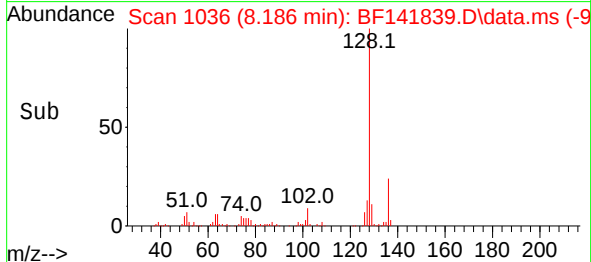
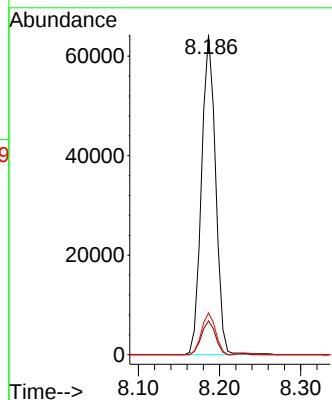
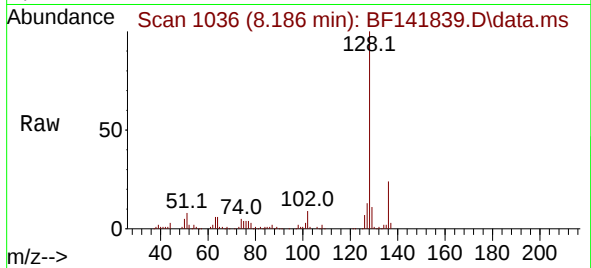




#31
Naphthalene
Concen: 2.016 ng
RT: 8.186 min Scan# 1036
Delta R.T. -0.006 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

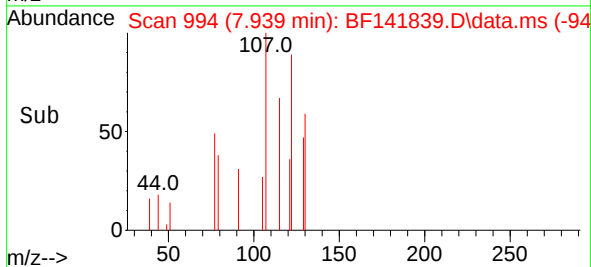
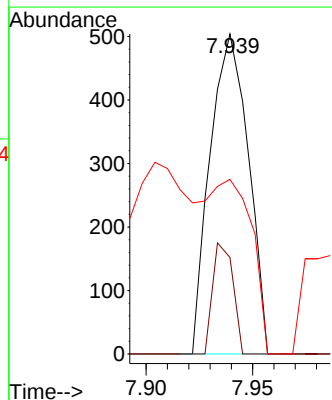
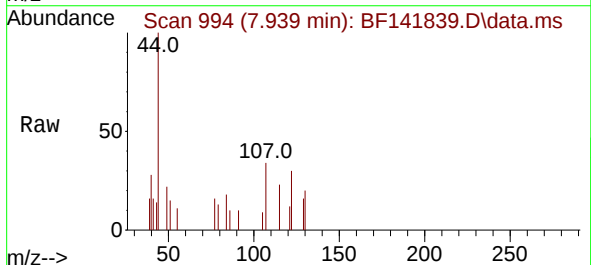
Instrument :
BNA_F
ClientSampleId :
TP-1DL

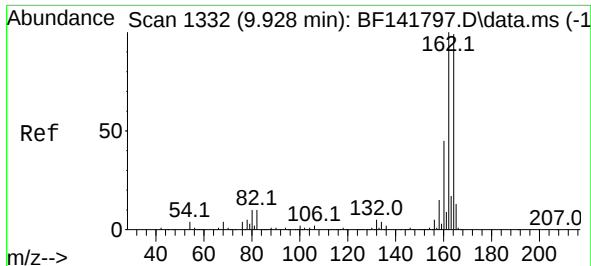
Tgt Ion:128 Resp: 77588
Ion Ratio Lower Upper
128 100
129 10.6 9.2 13.8
127 13.0 11.0 16.4



#32
Benzoic acid
Concen: 7.759 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.005 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

Tgt Ion:122 Resp: 629
Ion Ratio Lower Upper
122 100
105 30.2 105.8 145.8#
77 54.6 79.9 119.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 14

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

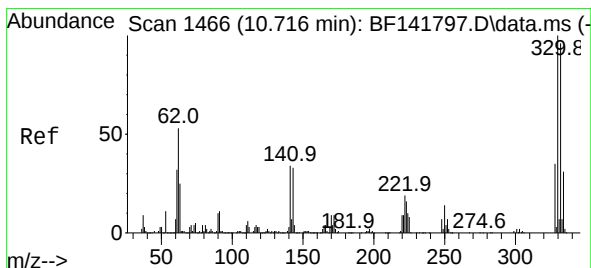
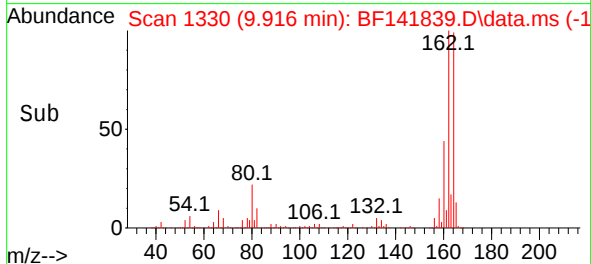
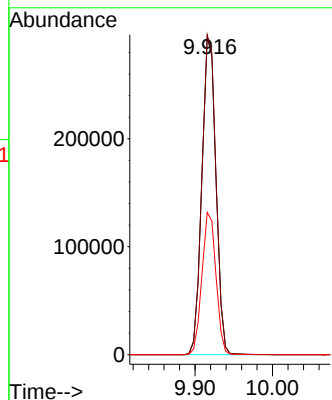
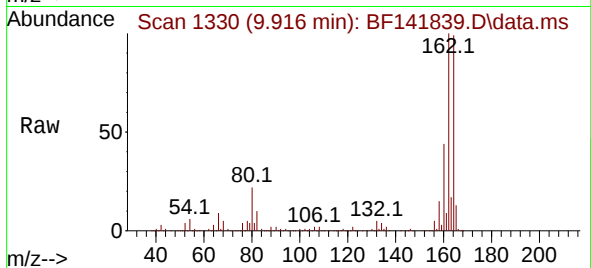
Tgt Ion:164 Resp: 370574

Ion Ratio Lower Upper

164 100

162 100.9 80.6 120.8

160 44.8 36.3 54.5



#42

2,4,6-Tribromophenol

Concen: 7.976 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

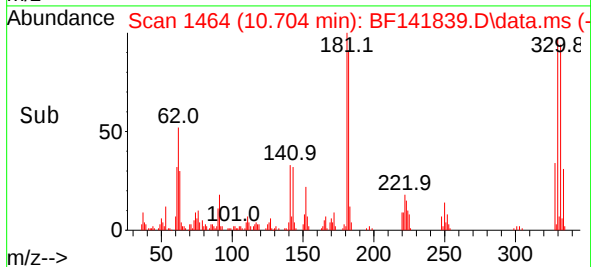
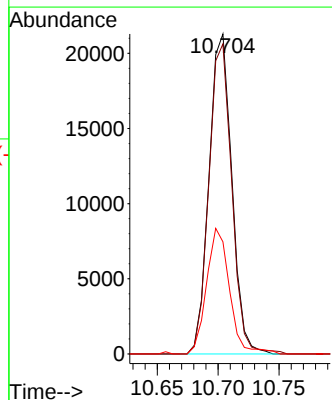
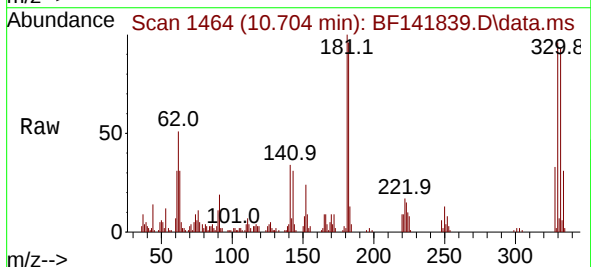
Tgt Ion:330 Resp: 27749

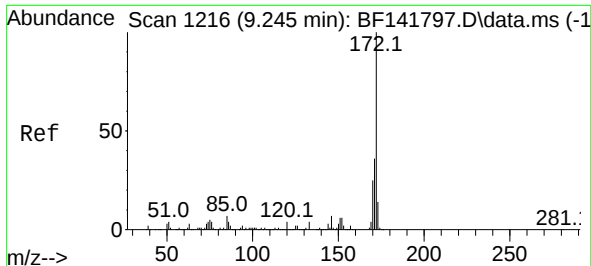
Ion Ratio Lower Upper

330 100

332 97.0 76.6 115.0

141 39.5 29.0 43.4





#45

2-Fluorobiphenyl

Concen: 7.097 ng

RT: 9.233 min Scan# 1214

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

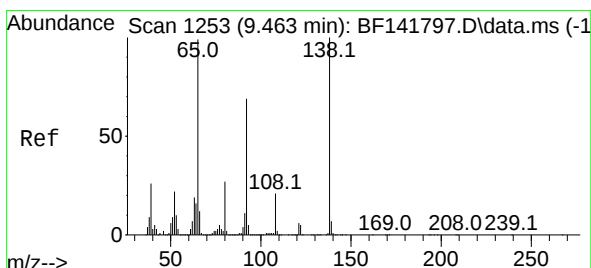
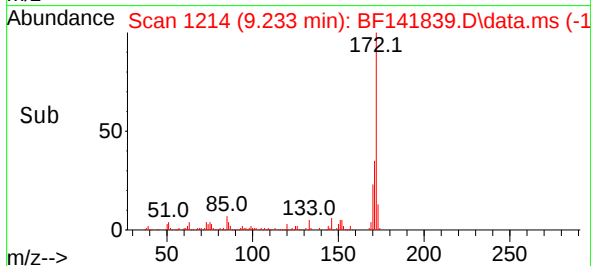
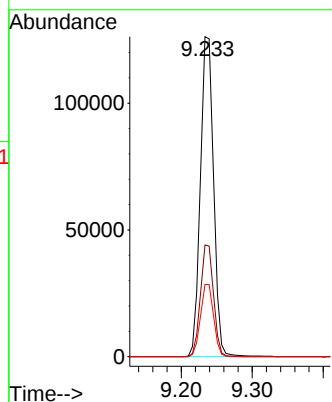
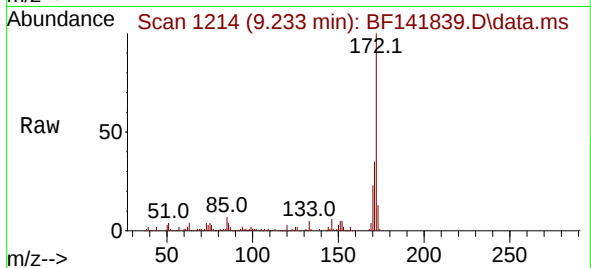
Tgt Ion:172 Resp: 164022

Ion Ratio Lower Upper

172 100

171 34.9 29.2 43.8

170 22.6 19.7 29.5



#48

2-Nitroaniline

Concen: 4.357 ng

RT: 9.457 min Scan# 1252

Delta R.T. -0.006 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

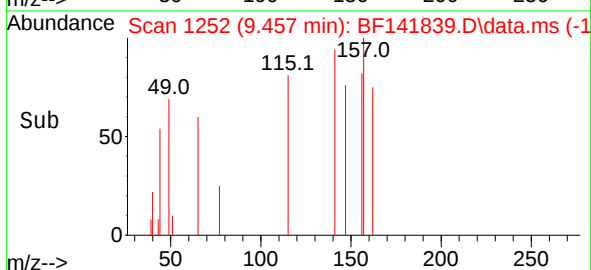
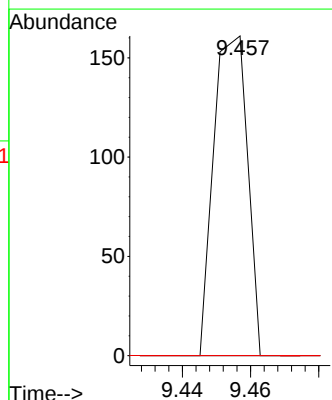
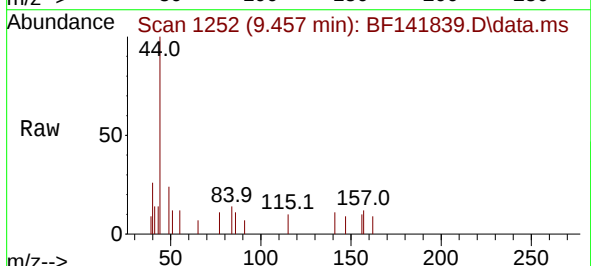
Tgt Ion: 65 Resp: 111

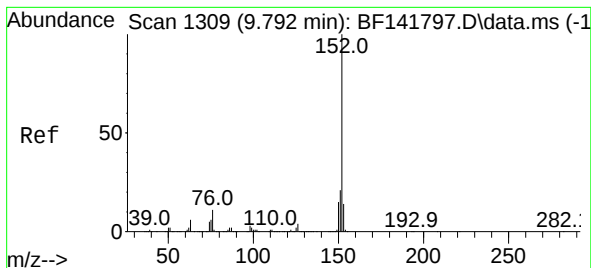
Ion Ratio Lower Upper

65 100

92 0.0 55.7 83.5#

138 0.0 80.6 121.0#





#49

Acenaphthylene

Concen: 3.097 ng

RT: 9.780 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

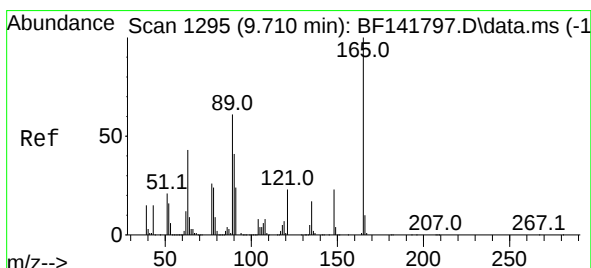
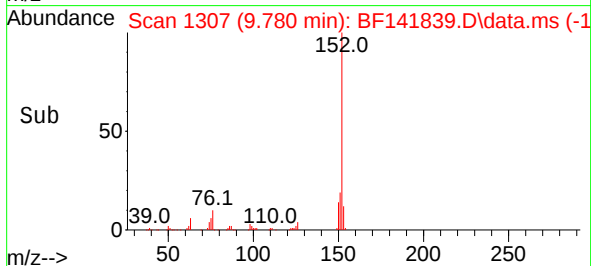
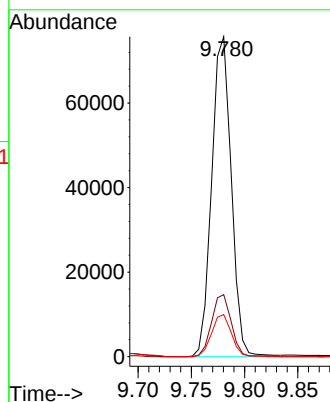
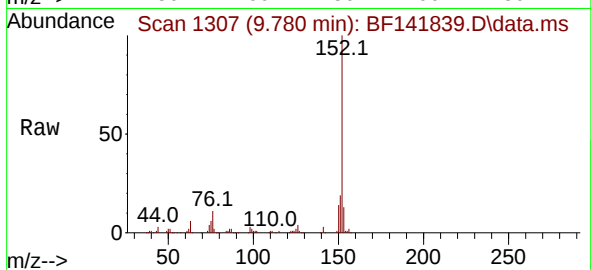
Tgt Ion:152 Resp: 96683

Ion Ratio Lower Upper

152 100

151 19.4 16.6 24.8

153 13.2 11.2 16.8



#51

2,6-Dinitrotoluene

Concen: 12.602 ng

RT: 9.916 min Scan# 1330

Delta R.T. 0.206 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

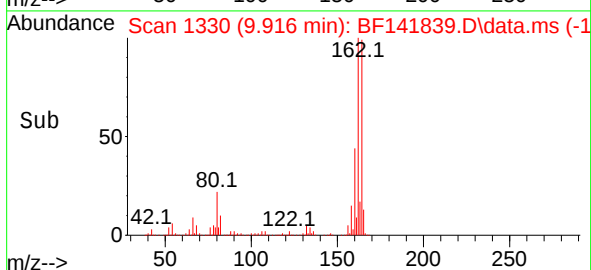
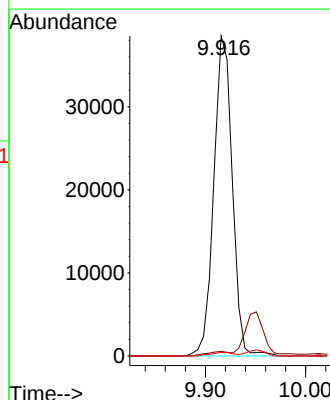
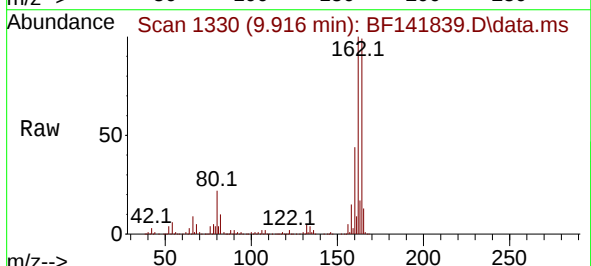
Tgt Ion:165 Resp: 49304

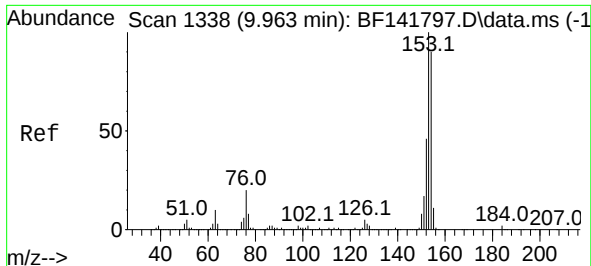
Ion Ratio Lower Upper

165 100

63 1.4 49.5 74.3#

89 1.1 49.0 73.4#





#52

Acenaphthene

Concen: 4.056 ng

RT: 9.951 min Scan# 1336

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

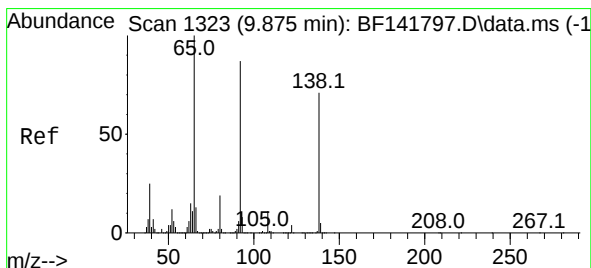
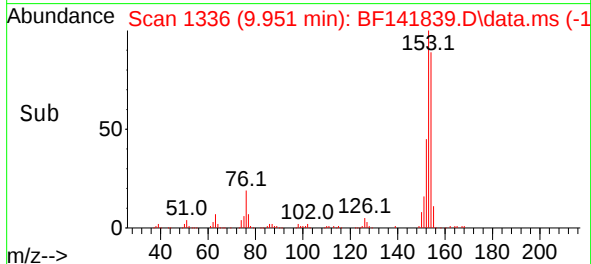
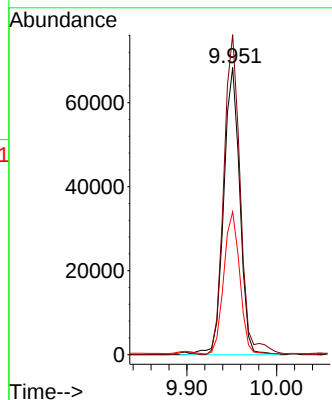
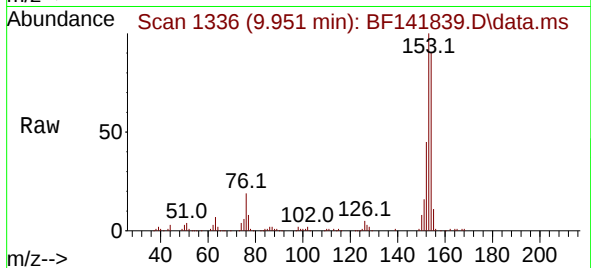
Tgt Ion:154 Resp: 85422

Ion Ratio Lower Upper

154 100

153 111.4 88.7 133.1

152 49.7 40.9 61.3



#53

3-Nitroaniline

Concen: 3.262 ng

RT: 10.122 min Scan# 1365

Delta R.T. 0.247 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

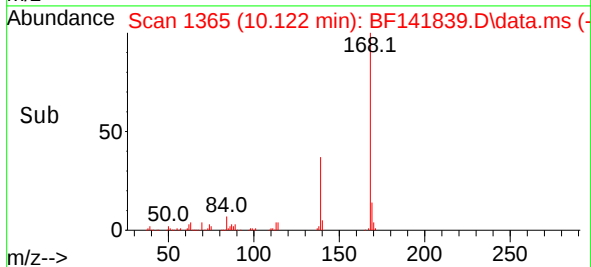
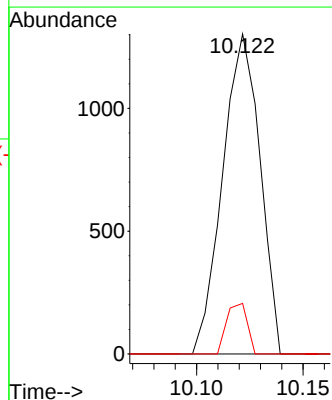
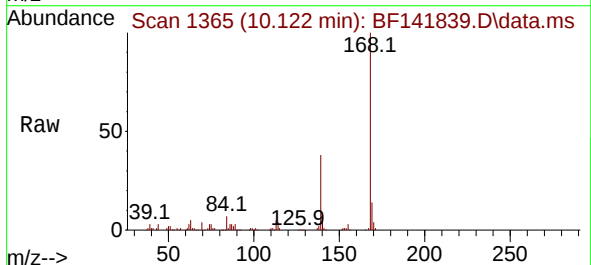
Tgt Ion:138 Resp: 1593

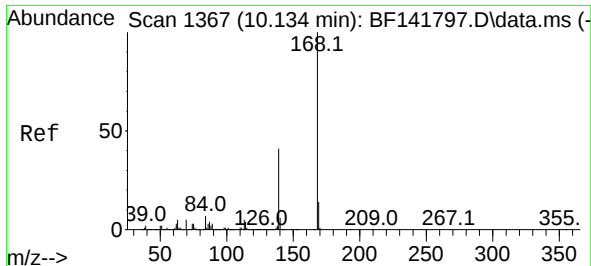
Ion Ratio Lower Upper

138 100

108 0.0 12.7 19.1#

92 15.8 97.9 146.9#





#55

Dibenzenofuran

Concen: 3.460 ng

RT: 10.122 min Scan# 1365

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

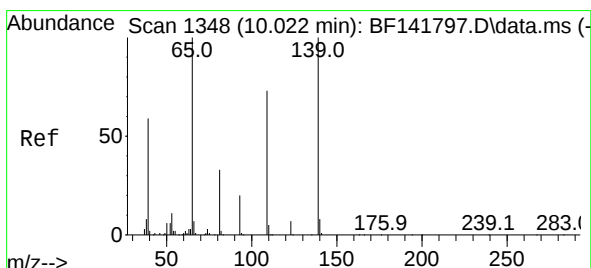
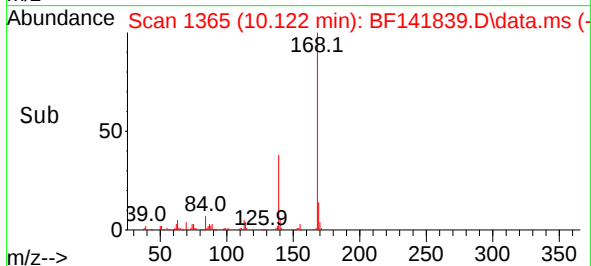
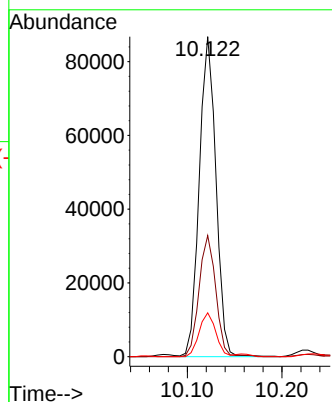
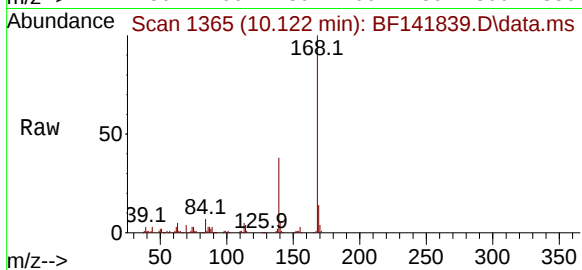
Tgt Ion:168 Resp: 106080

Ion Ratio Lower Upper

168 100

139 37.9 32.9 49.3

169 13.7 11.1 16.7



#56

4-Nitrophenol

Concen: 11.022 ng

RT: 10.122 min Scan# 1365

Delta R.T. 0.100 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

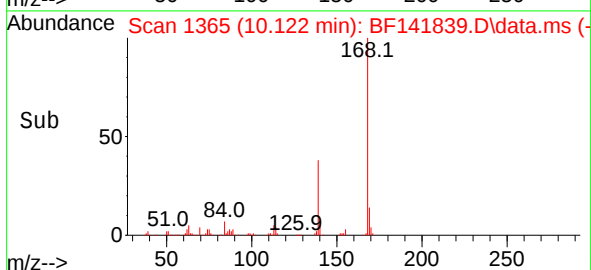
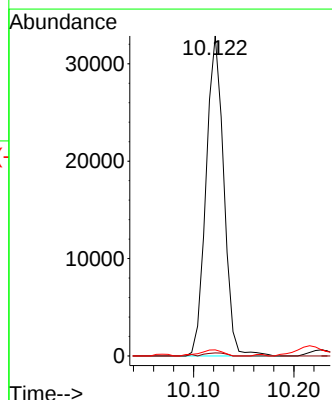
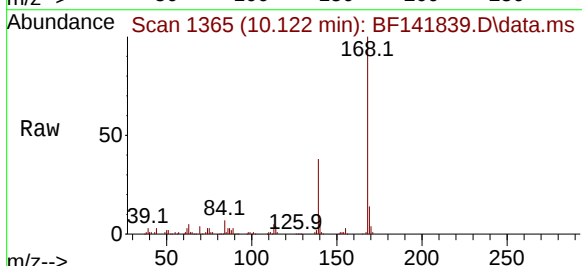
Tgt Ion:139 Resp: 40399

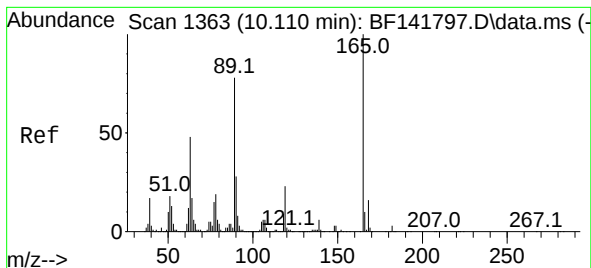
Ion Ratio Lower Upper

139 100

109 1.0 53.4 93.4#

65 1.9 82.1 122.1#

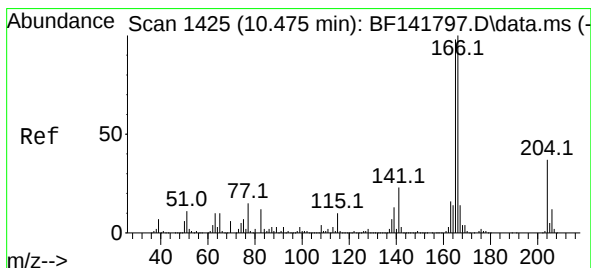
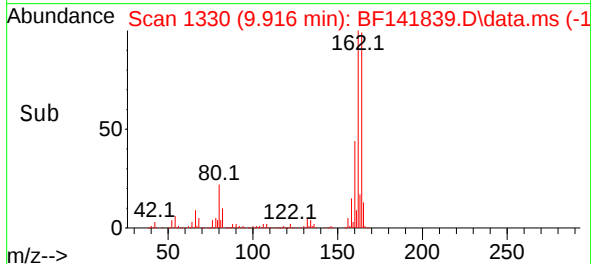
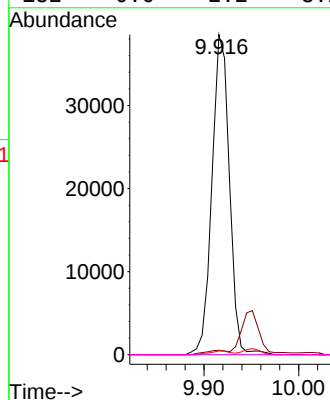
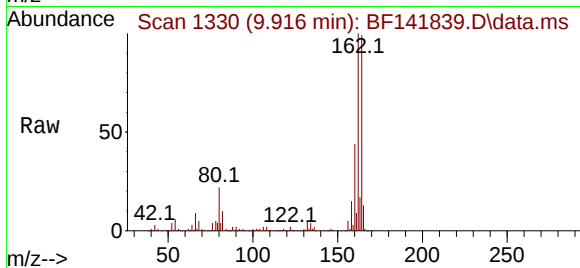




#57
2,4-Dinitrotoluene
Concen: 11.403 ng
RT: 9.916 min Scan# 1418
Delta R.T. -0.194 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

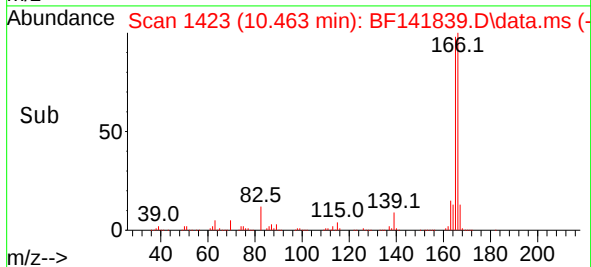
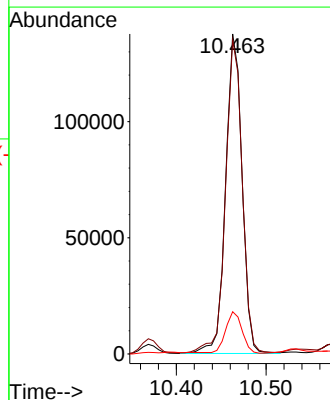
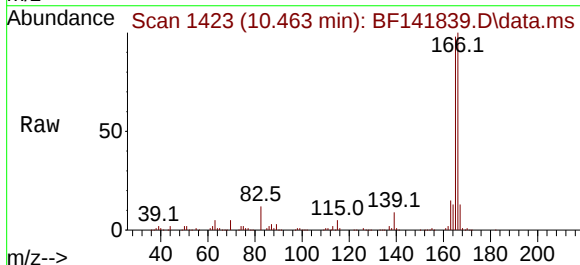
Instrument :
BNA_F
ClientSampleId :
TP-1DL

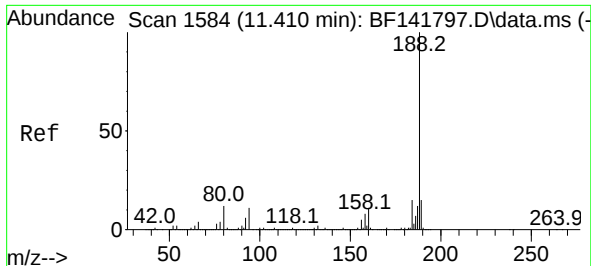
Tgt Ion:165 Resp: 49305
Ion Ratio Lower Upper
165 100
63 1.4 38.8 58.2#
89 1.1 62.6 94.0#
182 0.0 2.2 3.2#



#58
Fluorene
Concen: 7.626 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.012 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

Tgt Ion:166 Resp: 175119
Ion Ratio Lower Upper
166 100
165 98.1 78.6 117.8
167 13.2 11.0 16.4

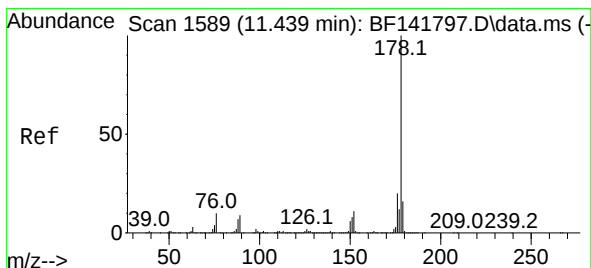
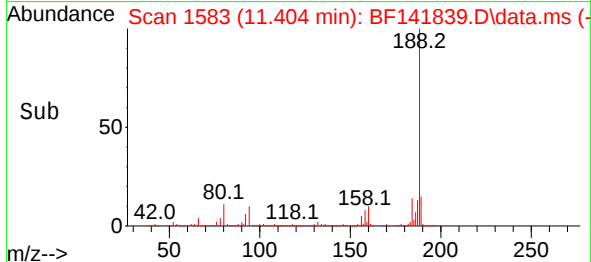
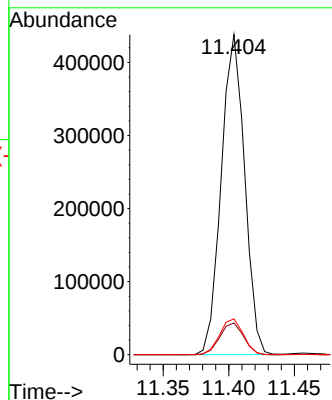
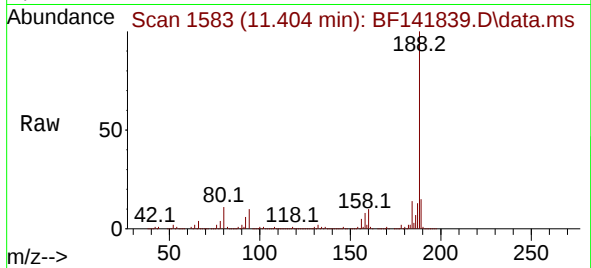




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

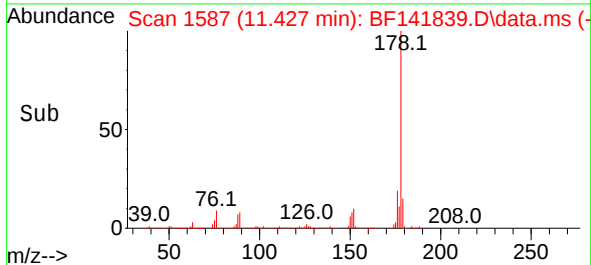
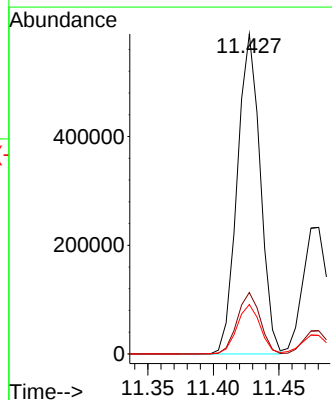
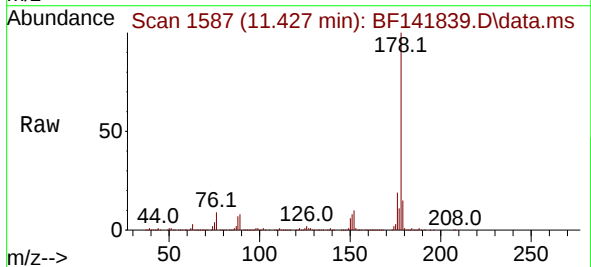
Instrument :
BNA_F
ClientSampleId :
TP-1DL

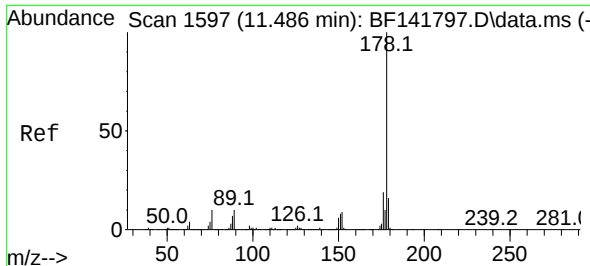
Tgt Ion:188 Resp: 542454
Ion Ratio Lower Upper
188 100
94 9.9 8.9 13.3
80 11.2 9.7 14.5



#71
Phenanthrene
Concen: 24.731 ng
RT: 11.427 min Scan# 1587
Delta R.T. -0.012 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

Tgt Ion:178 Resp: 717588
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.4 12.6 19.0

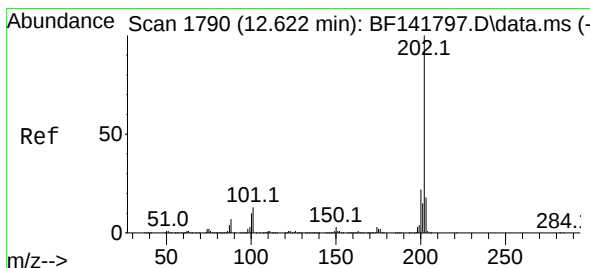
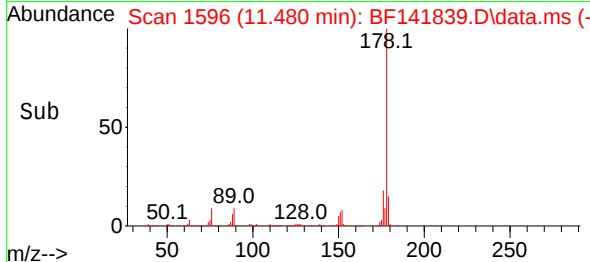
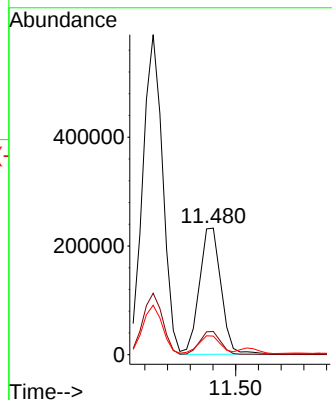
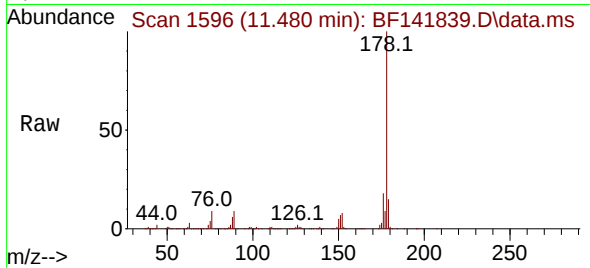




#72
 Anthracene
 Concen: 10.595 ng
 RT: 11.480 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF141839.D
 Acq: 05 Mar 2025 12:15

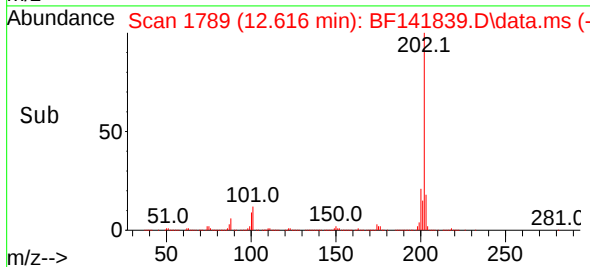
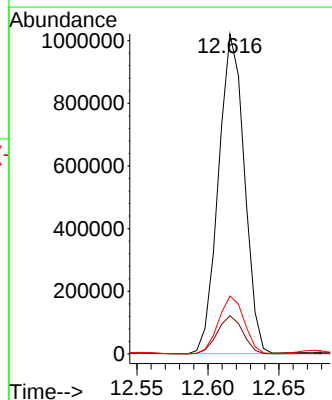
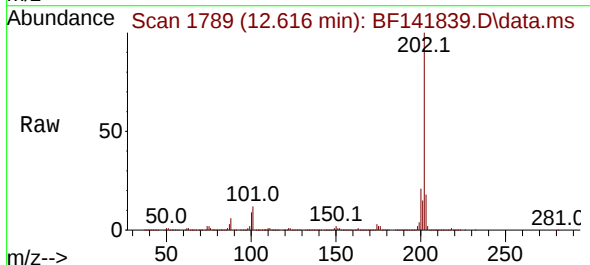
Instrument :
 BNA_F
 ClientSampleId :
 TP-1DL

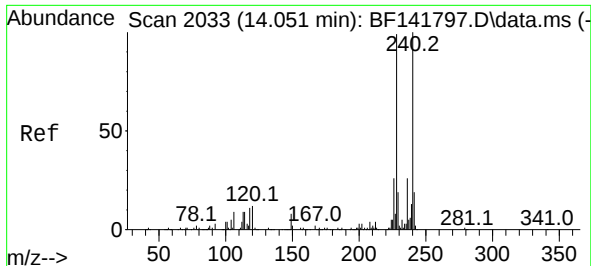
Tgt Ion:178 Resp: 308116
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.0
 179 14.7 12.8 19.2



#75
 Fluoranthene
 Concen: 43.478 ng
 RT: 12.616 min Scan# 1789
 Delta R.T. -0.006 min
 Lab File: BF141839.D
 Acq: 05 Mar 2025 12:15

Tgt Ion:202 Resp: 1292677
 Ion Ratio Lower Upper
 202 100
 101 11.9 0.0 32.8
 203 18.1 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

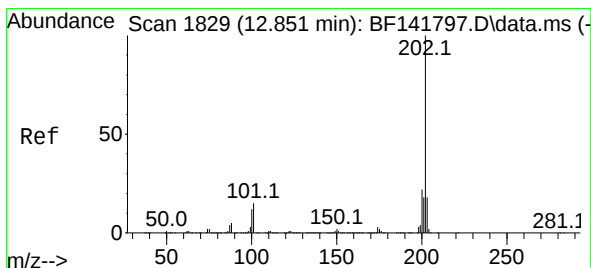
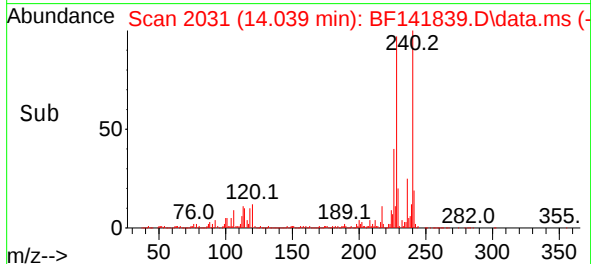
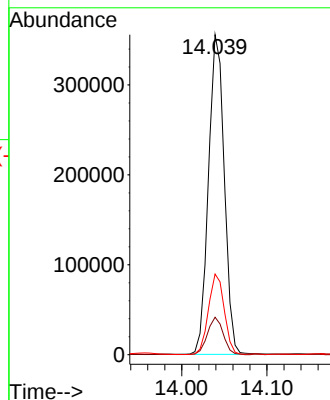
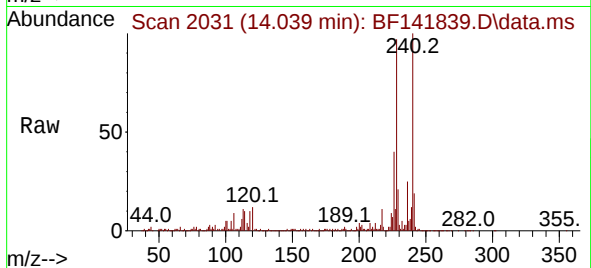
Tgt Ion:240 Resp: 459293

Ion Ratio Lower Upper

240 100

120 11.7 9.7 14.5

236 25.2 21.0 31.4



#78

Pyrene

Concen: 26.395 ng

RT: 12.845 min Scan# 1828

Delta R.T. -0.006 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

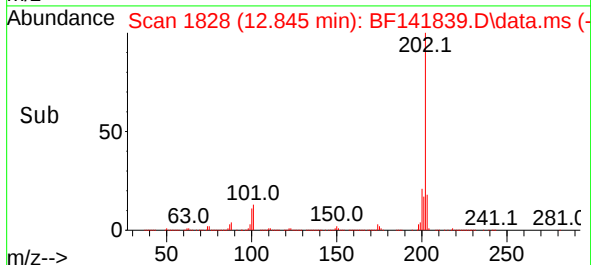
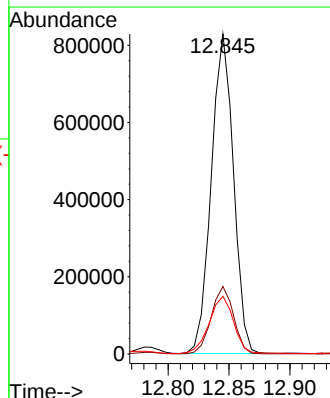
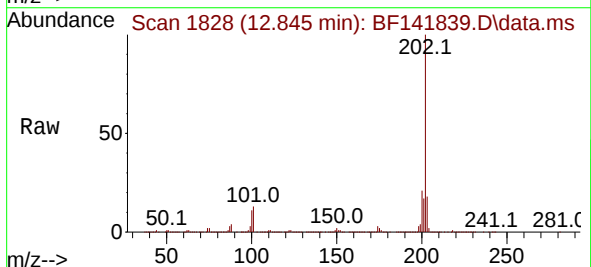
Tgt Ion:202 Resp: 1049793

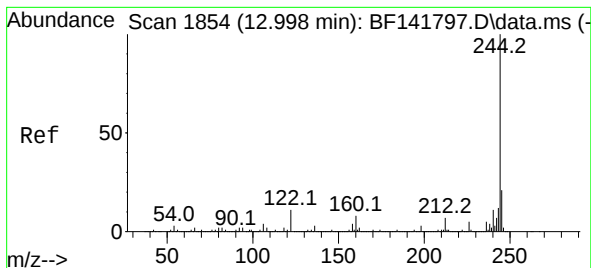
Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.0

203 18.1 14.6 22.0





#79

Terphenyl-d14

Concen: 4.668 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

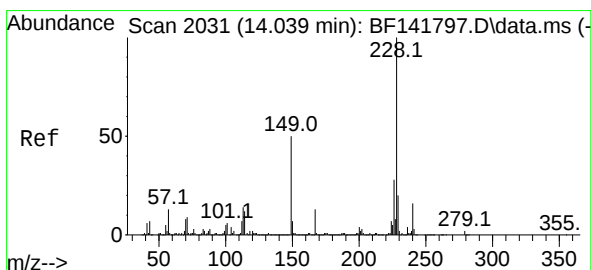
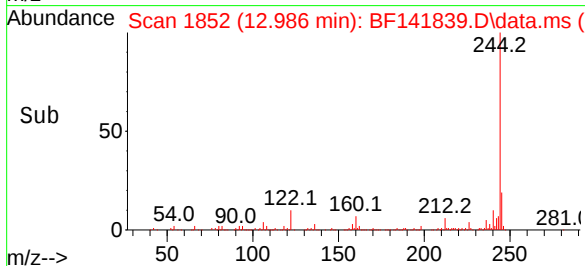
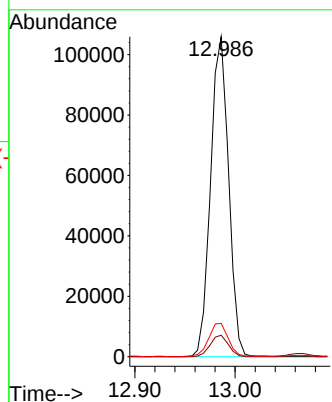
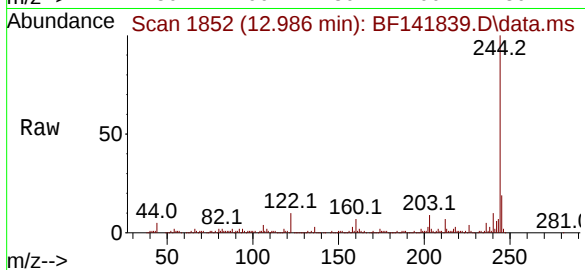
Tgt Ion:244 Resp: 132515

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

122 10.4 9.0 13.6



#81

Benzo(a)anthracene

Concen: 18.046 ng

RT: 14.063 min Scan# 2035

Delta R.T. 0.023 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

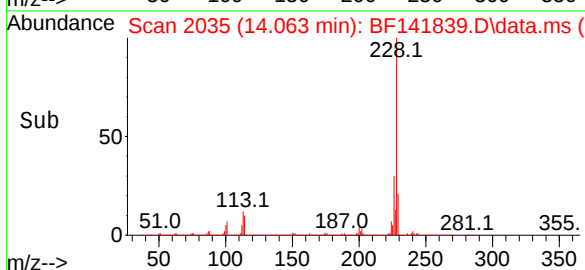
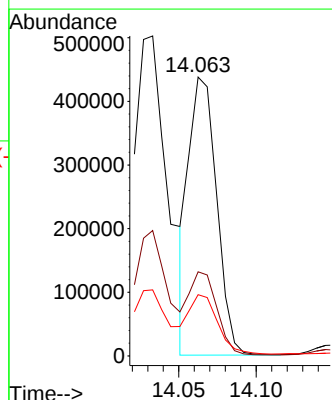
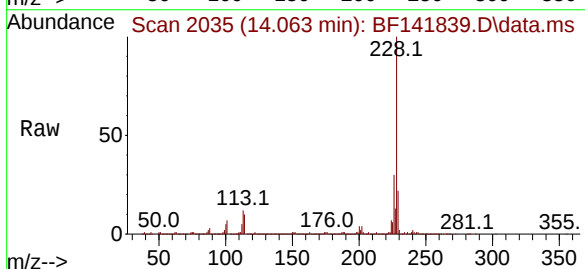
Tgt Ion:228 Resp: 547469

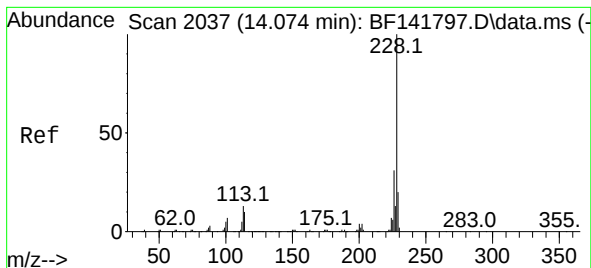
Ion Ratio Lower Upper

228 100

226 30.2 22.1 33.1

229 22.0 16.1 24.1





#83

Chrysene

Concen: 19.577 ng

RT: 14.063 min Scan# 2037

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

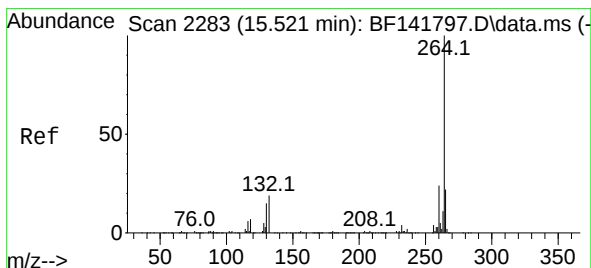
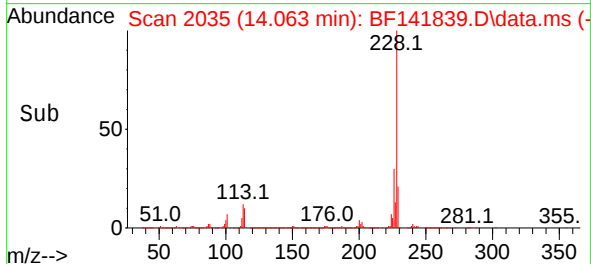
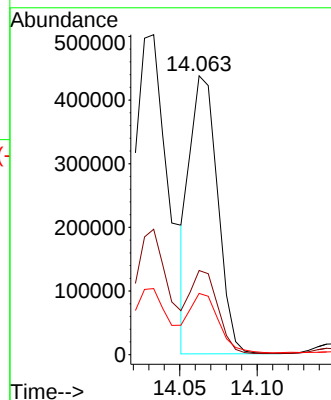
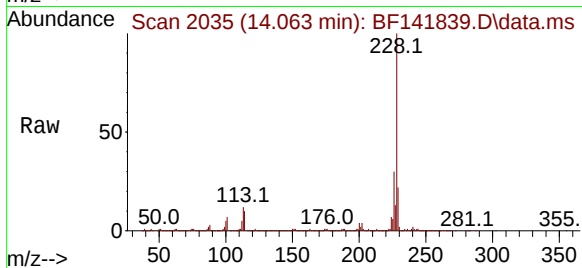
Tgt Ion:228 Resp: 547469

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 22.0 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.515 min Scan# 2282

Delta R.T. -0.006 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

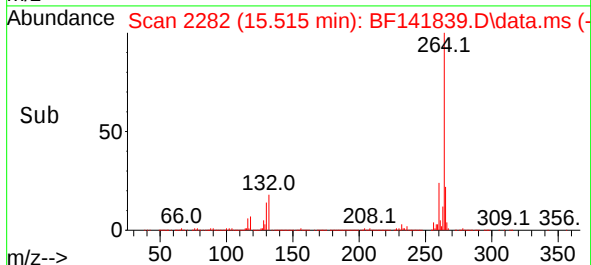
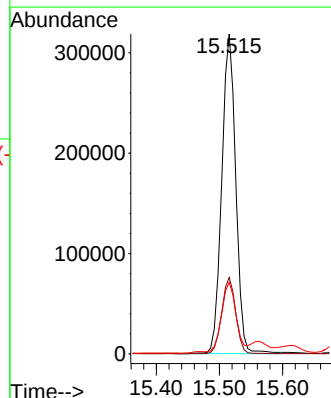
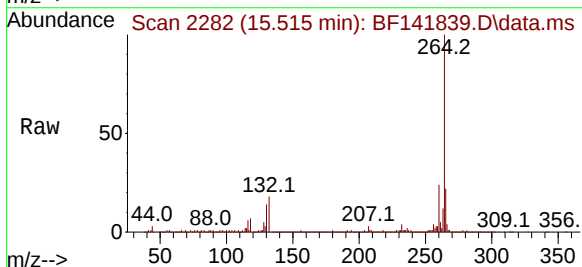
Tgt Ion:264 Resp: 492848

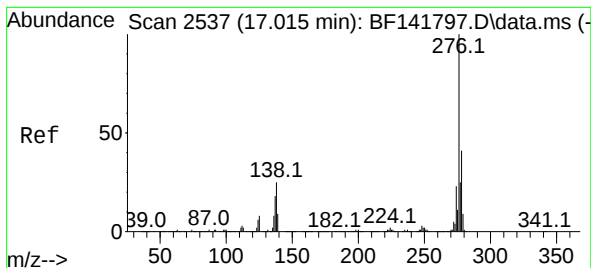
Ion Ratio Lower Upper

264 100

260 23.9 18.9 28.3

265 22.4 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.724 ng

RT: 16.992 min Scan# 2533

Delta R.T. -0.024 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

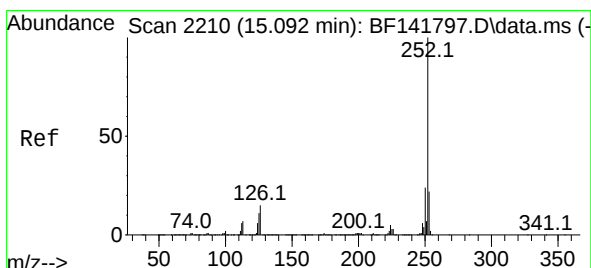
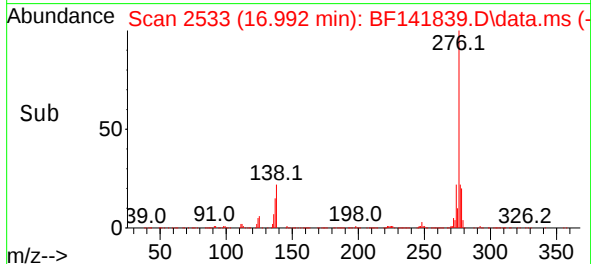
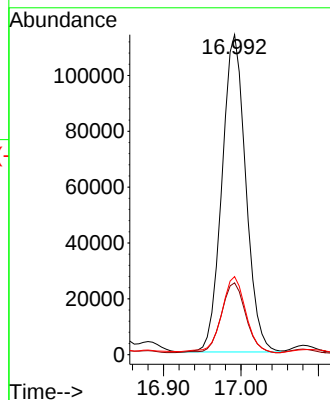
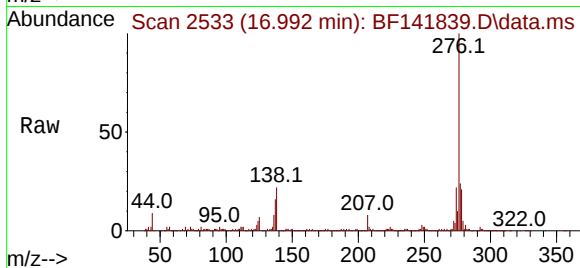
Tgt Ion:276 Resp: 242413

Ion Ratio Lower Upper

276 100

138 22.8 22.5 33.7

277 24.4 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 32.162 ng

RT: 15.086 min Scan# 2209

Delta R.T. -0.006 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

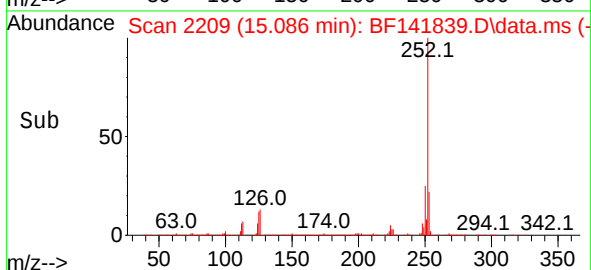
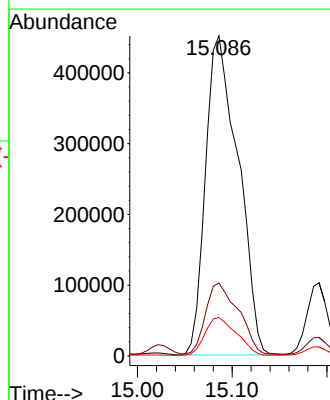
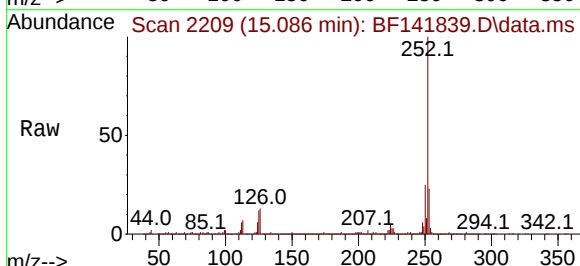
Tgt Ion:252 Resp: 1079711

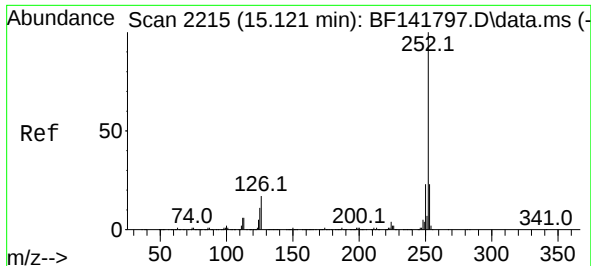
Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

125 12.0 8.6 13.0





#89

Benzo(k)fluoranthene

Concen: 37.839 ng

RT: 15.086 min Scan# 2215

Delta R.T. -0.036 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

Instrument :

BNA_F

ClientSampleId :

TP-1DL

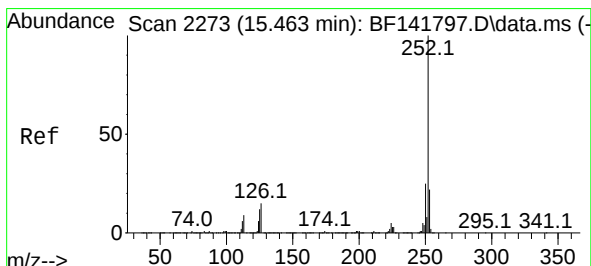
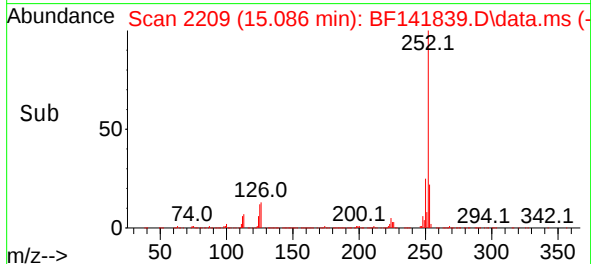
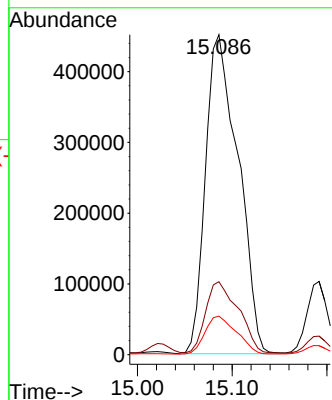
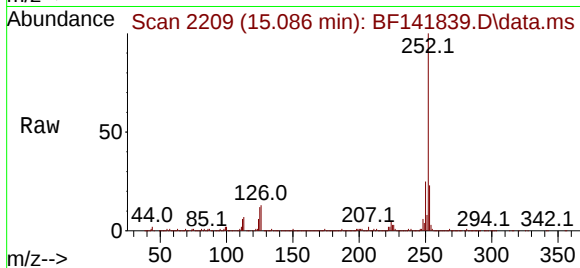
Tgt Ion:252 Resp: 1079711

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

125 12.0 8.8 13.2



#90

Benzo(a)pyrene

Concen: 21.590 ng

RT: 15.451 min Scan# 2271

Delta R.T. -0.012 min

Lab File: BF141839.D

Acq: 05 Mar 2025 12:15

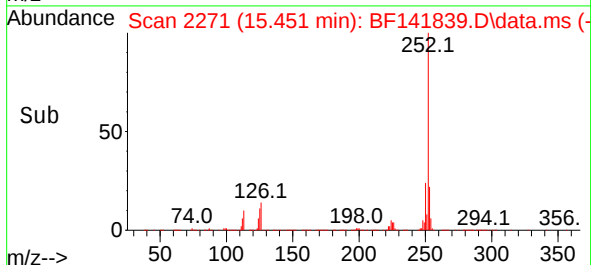
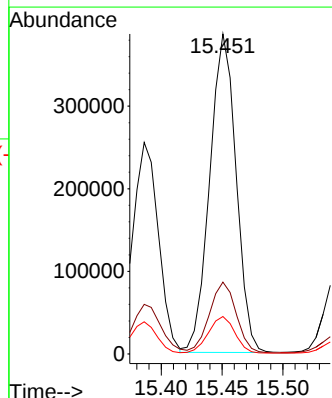
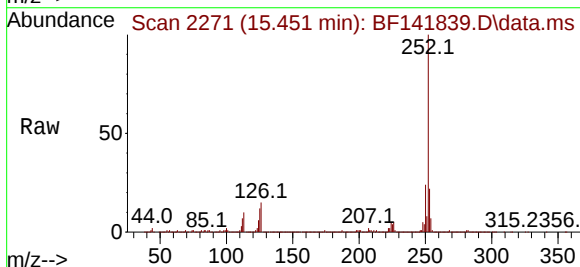
Tgt Ion:252 Resp: 581280

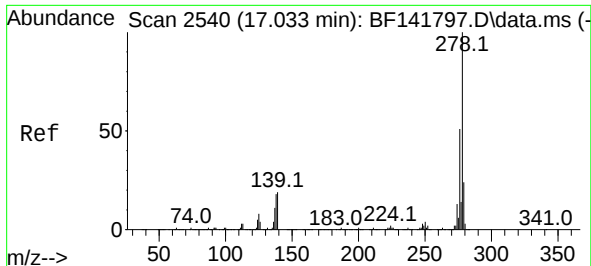
Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

125 11.7 9.4 14.2

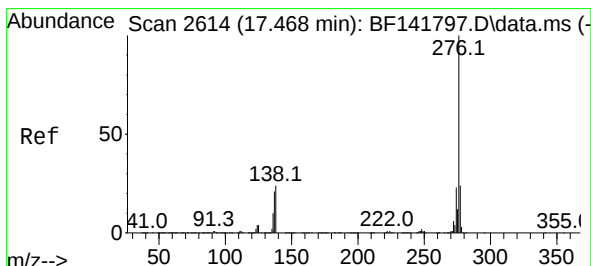
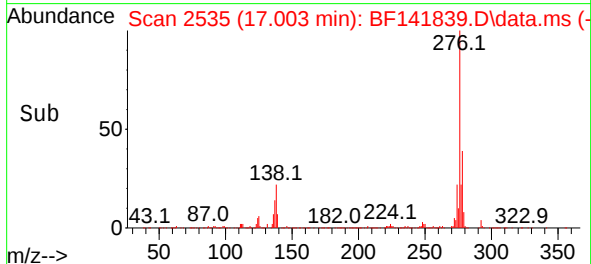
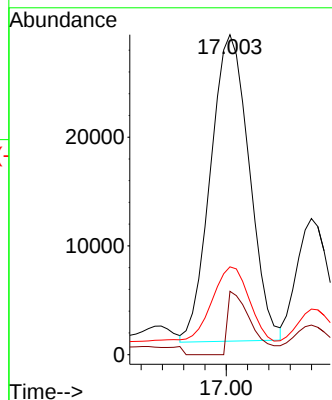
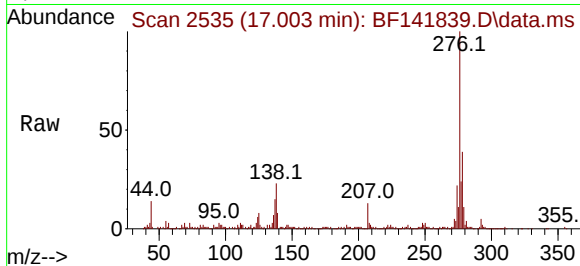




#91
Dibenzo(a,h)anthracene
Concen: 2.773 ng
RT: 17.003 min Scan# 210
Delta R.T. -0.030 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

Instrument :
BNA_F
ClientSampleId :
TP-1DL

Tgt Ion:278 Resp: 71041
Ion Ratio Lower Upper
278 100
139 19.8 14.9 22.3
279 27.5 19.3 28.9



#92
Benzo(g,h,i)perylene
Concen: 7.662 ng
RT: 17.439 min Scan# 2609
Delta R.T. -0.030 min
Lab File: BF141839.D
Acq: 05 Mar 2025 12:15

Tgt Ion:276 Resp: 201071
Ion Ratio Lower Upper
276 100
277 24.0 19.4 29.0
138 23.0 19.3 28.9

