

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032425\
 Data File : BF142054.D
 Acq On : 24 Mar 2025 14:55
 Operator : RC/JU
 Sample : Q1619-13DL2 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 24 15:17:23 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)

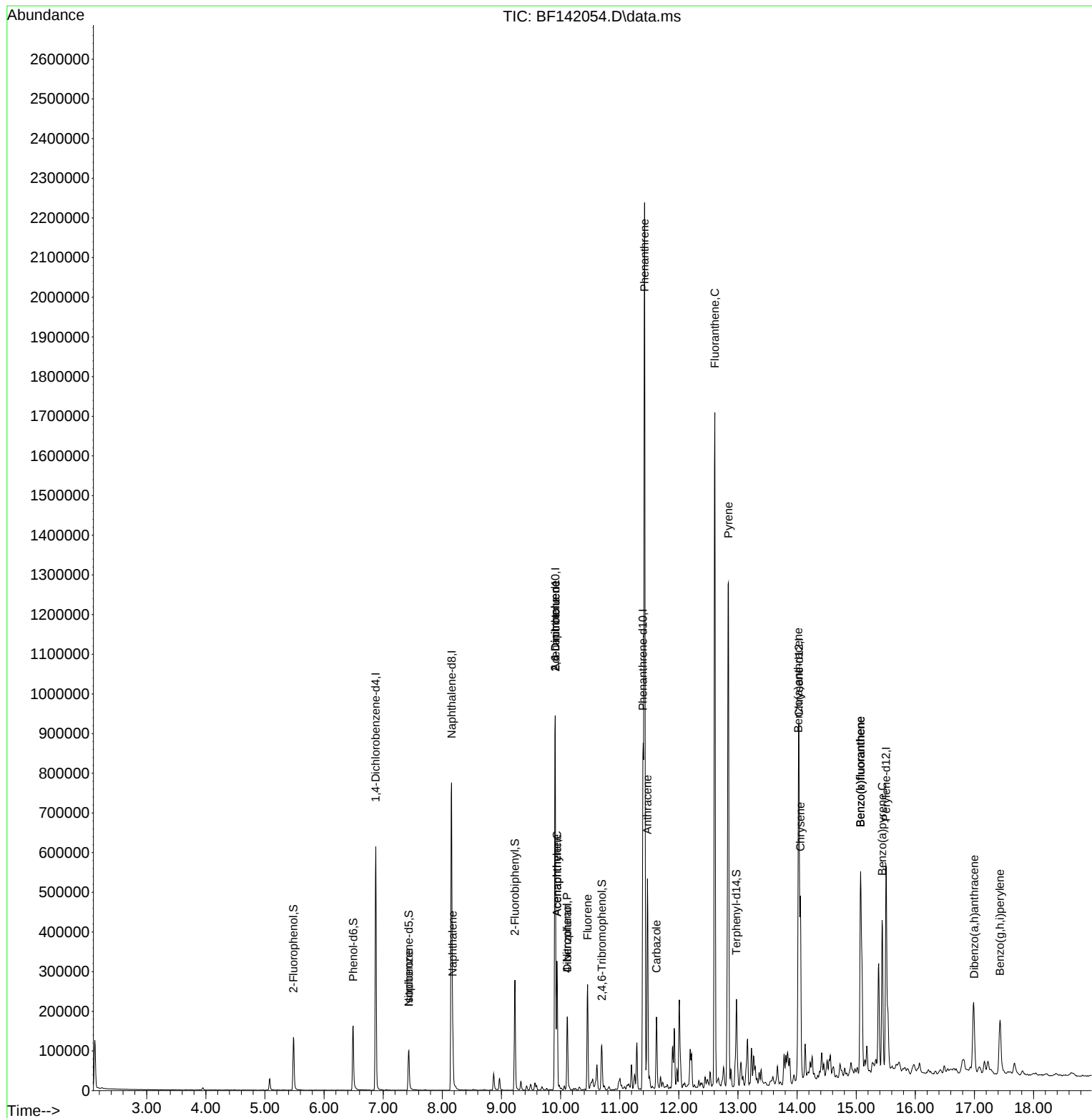
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	134945	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	531259	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	289167	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	449583	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	253135	20.000	ng	0.00
86) Perylene-d12	15.504	264	317814	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	59263	7.329	ng	-0.01
7) Phenol-d6	6.492	99	89874	8.730	ng	-0.01
23) Nitrobenzene-d5	7.434	82	57453	6.086	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	12166	3.316	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	131185	6.899	ng	-0.01
79) Terphenyl-d14	12.974	244	102159	5.967	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.434	82	54578	3.271	ng	# 64
31) Naphthalene	8.175	128	80749	2.959	ng	99
49) Acenaphthylene	9.939	152	50907	2.095	ng	# 1
51) 2,6-Dinitrotoluene	9.910	165	38983	9.246	ng	# 23
52) Acenaphthene	9.939	154	101882	5.966	ng	99
55) Dibenzofuran	10.116	168	109939	4.505	ng	95
56) 4-Nitrophenol	10.110	139	43847	13.595	ng	# 5
57) 2,4-Dinitrotoluene	9.910	165	38983	7.079	ng	# 24
58) Fluorene	10.457	166	108089	5.744	ng	100
71) Phenanthrene	11.422	178	1214523	50.015	ng	99
72) Anthracene	11.469	178	303953	12.476	ng	99
73) Carbazole	11.622	167	100395	4.778	ng	98
75) Fluoranthene	12.610	202	1005973	39.053	ng	99
78) Pyrene	12.839	202	783901	35.800	ng	99
81) Benzo(a)anthracene	14.021	228	287869	17.330	ng	99
83) Chrysene	14.057	228	235419	15.635	ng	96
88) Benzo(b)fluoranthene	15.074	252	468664	21.517	ng	99
89) Benzo(k)fluoranthene	15.074	252	468664	25.143	ng	100
90) Benzo(a)pyrene	15.439	252	245308	14.393	ng	97
91) Dibenzo(a,h)anthracene	16.998	278	34616	2.041	ng	95
92) Benzo(g,h,i)perylene	17.433	276	131795	7.862	ng	99

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

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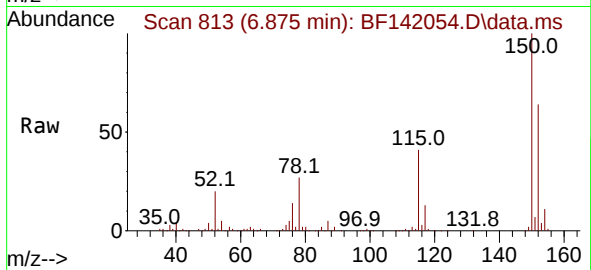
Quant Time: Mar 24 15:17:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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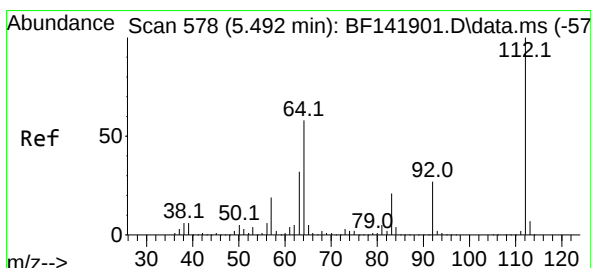
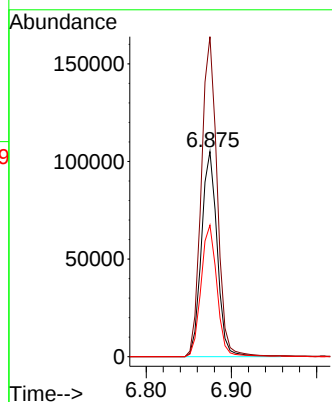
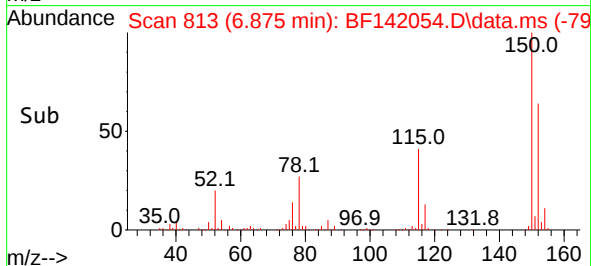


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

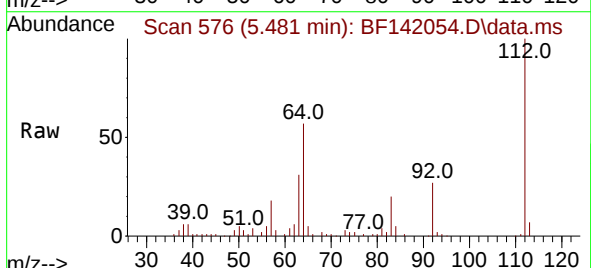
Instrument :
BNA_F
ClientSampleId :



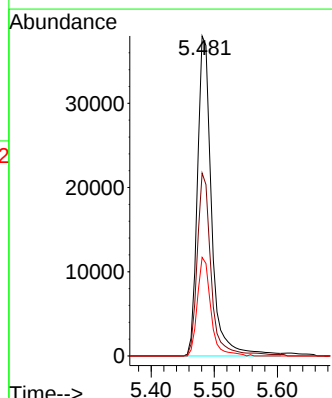
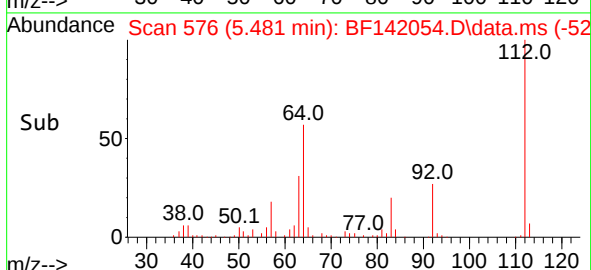
Tgt Ion:152 Resp: 134945
Ion Ratio Lower Upper
152 100
150 156.0 127.4 191.2
115 64.1 51.9 77.9



#5
2-Fluorophenol
Concen: 7.329 ng
RT: 5.481 min Scan# 576
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55



Tgt Ion:112 Resp: 59263
Ion Ratio Lower Upper
112 100
64 57.2 46.5 69.7
63 30.8 25.4 38.2





#7

Phenol-d6

Concen: 8.730 ng

RT: 6.492 min Scan# 74

Delta R.T. -0.012 min

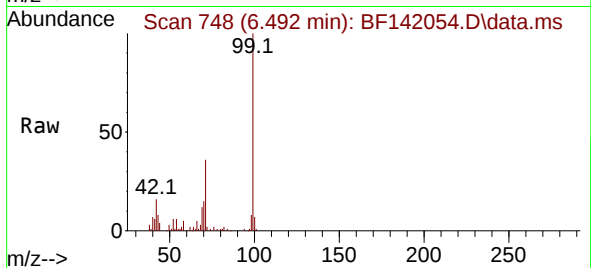
Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :



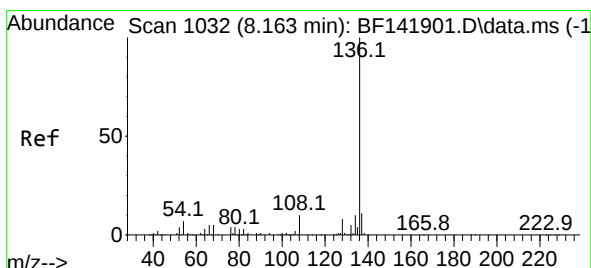
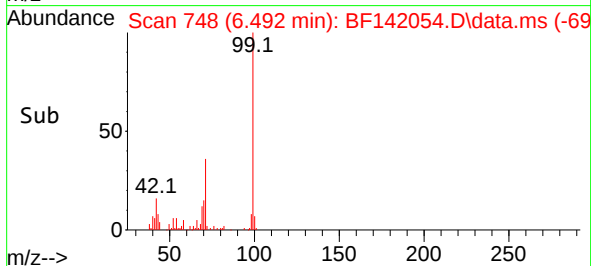
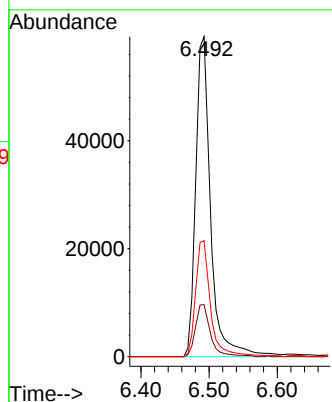
Tgt Ion: 99 Resp: 89874

Ion Ratio Lower Upper

99 100

42 16.3 14.6 21.8

71 36.3 30.8 46.2



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1031

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Tgt Ion: 136 Resp: 531259

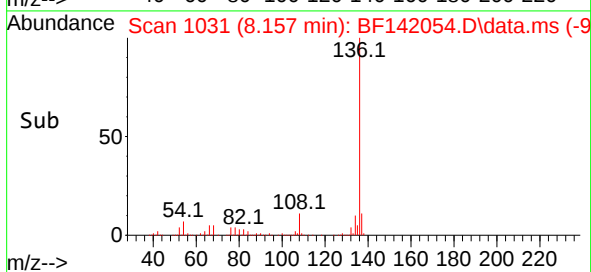
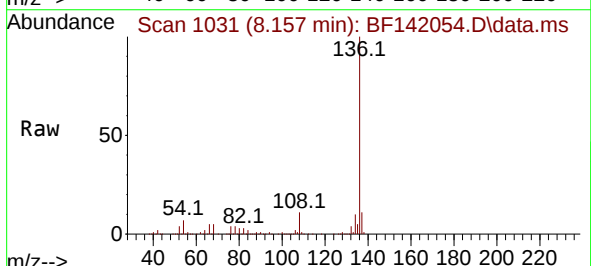
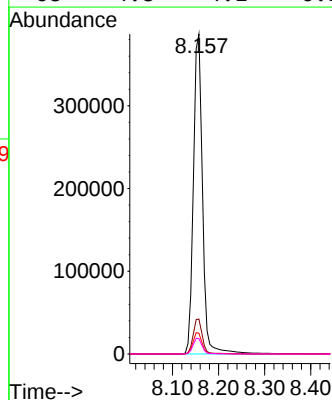
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 6.5 5.8 8.8

68 4.8 4.1 6.1

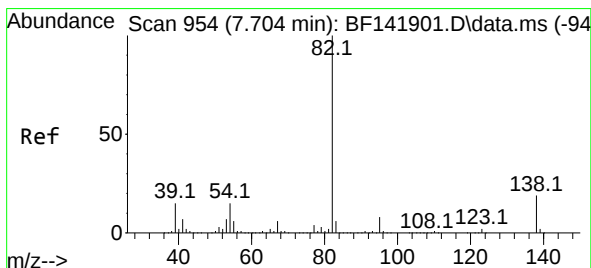
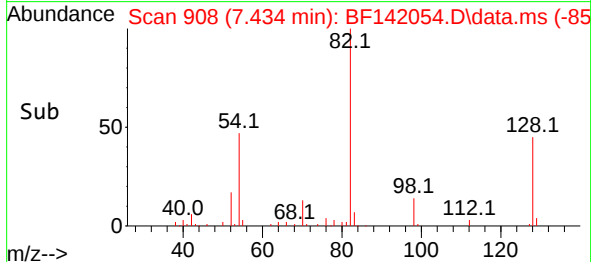
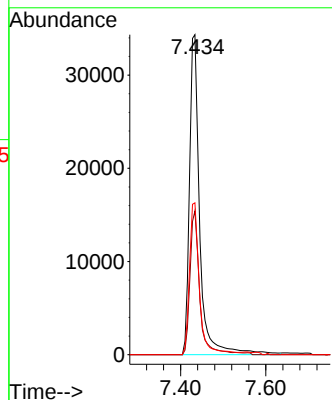
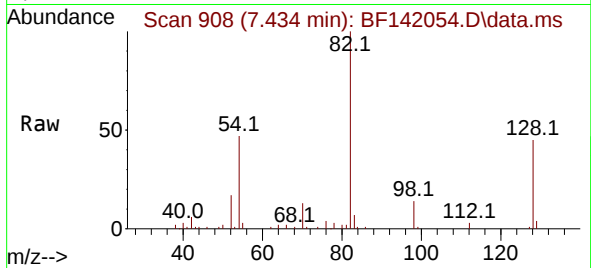




#23
Nitrobenzene-d5
Concen: 6.086 ng
RT: 7.434 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

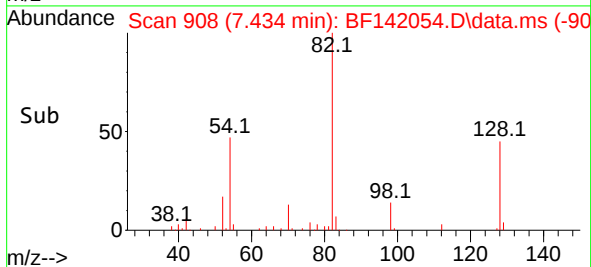
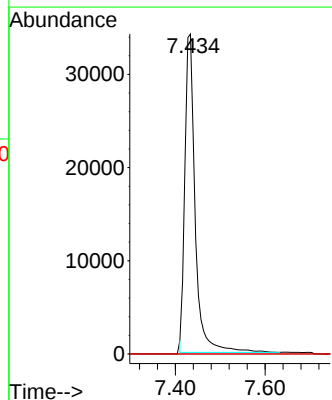
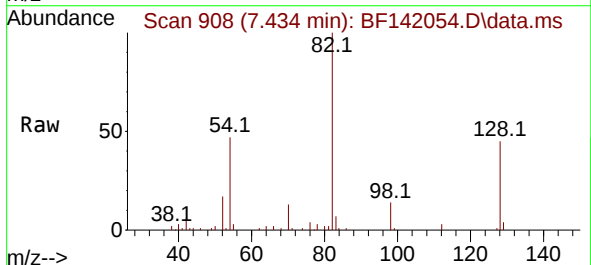
Instrument :
BNA_F
ClientSampleId :

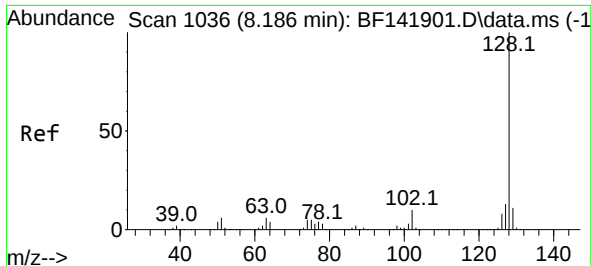
Tgt Ion: 82 Resp: 57453
Ion Ratio Lower Upper
82 100
128 44.9 36.0 54.0
54 47.5 39.6 59.4



#25
Isophorone
Concen: 3.271 ng
RT: 7.434 min Scan# 908
Delta R.T. -0.270 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Tgt Ion: 82 Resp: 54578
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 14.9 22.3#

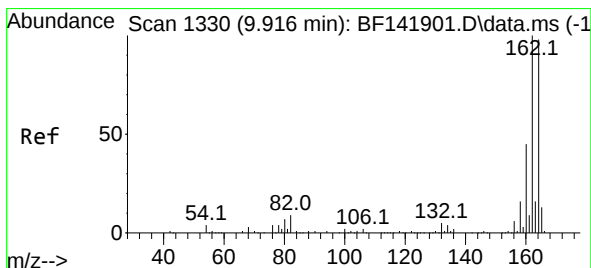
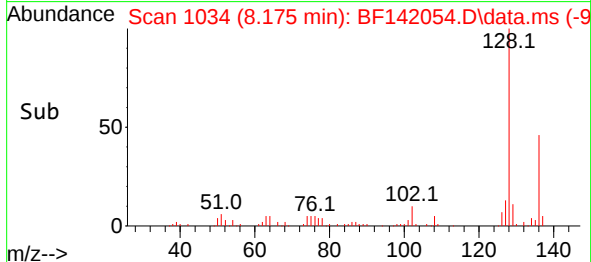
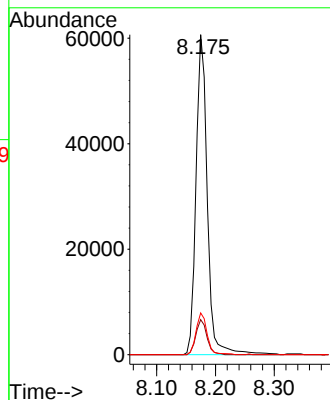
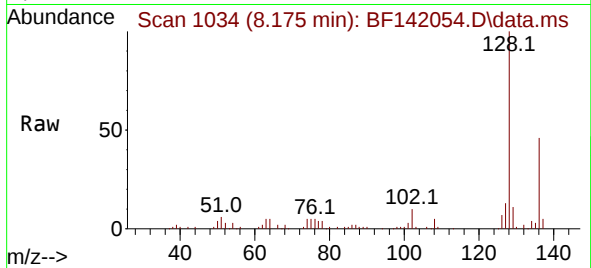




#31
Naphthalene
Concen: 2.959 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

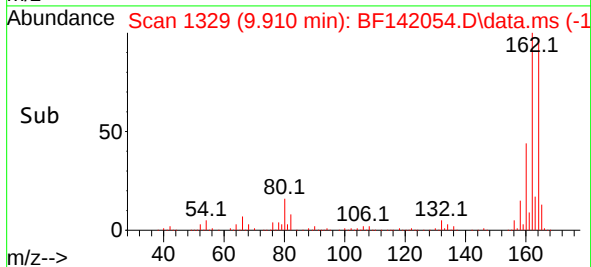
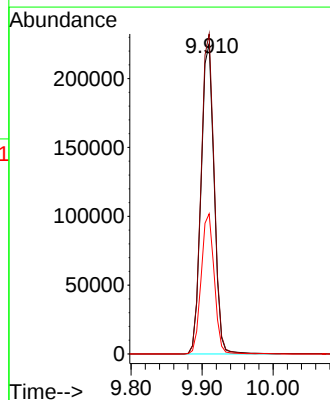
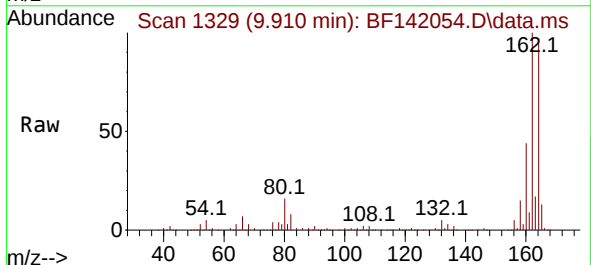
Instrument :
BNA_F
ClientSampleId :

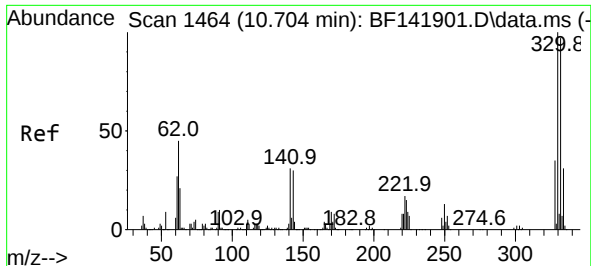
Tgt Ion:128 Resp: 80749
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 13.1 10.8 16.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Tgt Ion:164 Resp: 289167
Ion Ratio Lower Upper
164 100
162 103.2 81.8 122.6
160 45.2 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 3.316 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

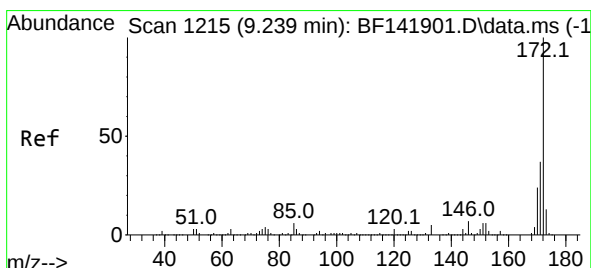
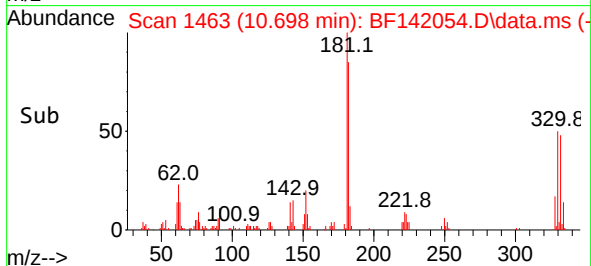
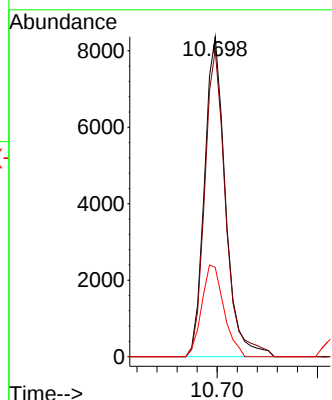
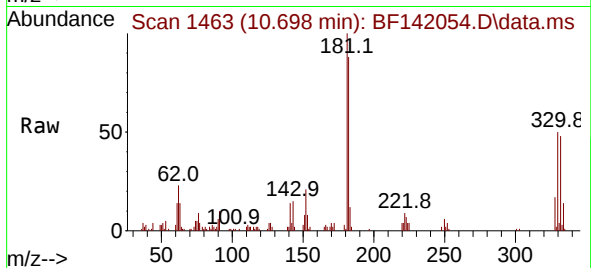
Tgt Ion:330 Resp: 12166

Ion Ratio Lower Upper

330 100

332 95.7 77.6 116.4

141 30.3 24.7 37.1



#45

2-Fluorobiphenyl

Concen: 6.899 ng

RT: 9.228 min Scan# 1213

Delta R.T. -0.012 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

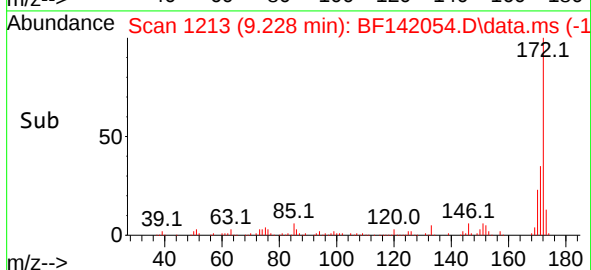
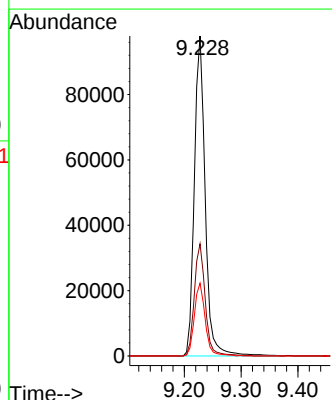
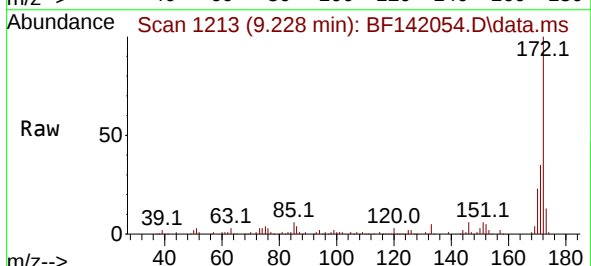
Tgt Ion:172 Resp: 131185

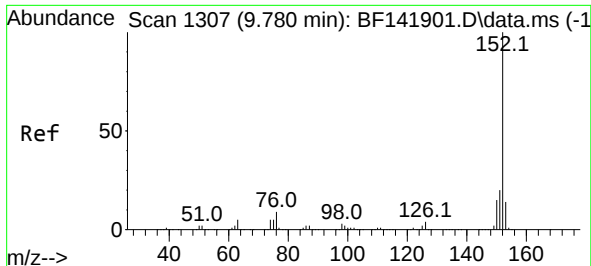
Ion Ratio Lower Upper

172 100

171 35.1 29.3 43.9

170 22.8 19.4 29.0





#49

Acenaphthylene

Concen: 2.095 ng

RT: 9.939 min Scan# 11

Delta R.T. 0.159 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

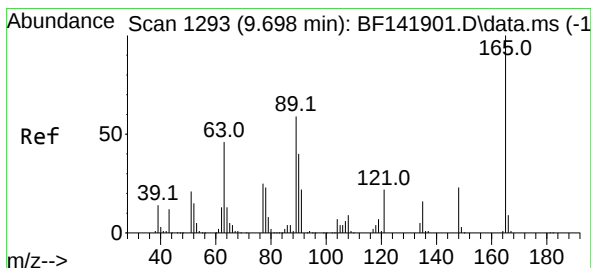
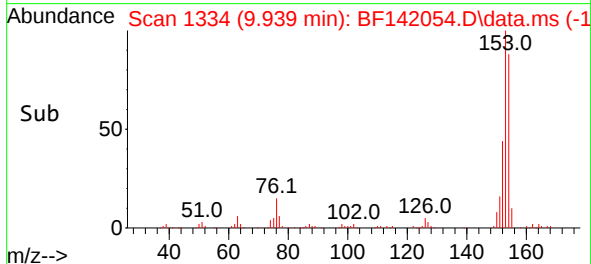
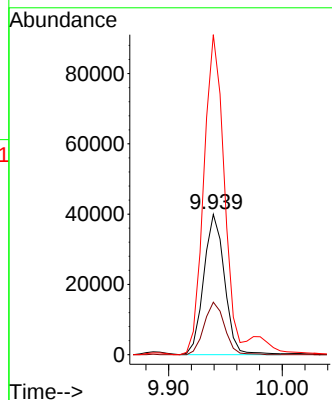
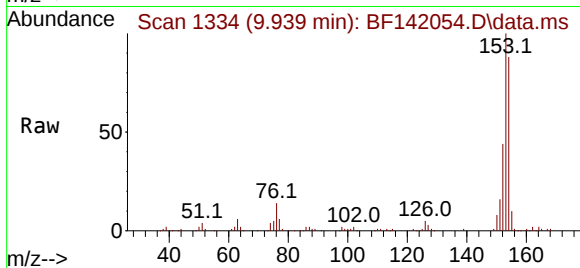
Tgt Ion:152 Resp: 50907

Ion Ratio Lower Upper

152 100

151 37.4 16.3 24.5#

153 228.0 11.1 16.7#



#51

2,6-Dinitrotoluene

Concen: 9.246 ng

RT: 9.910 min Scan# 1329

Delta R.T. 0.212 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

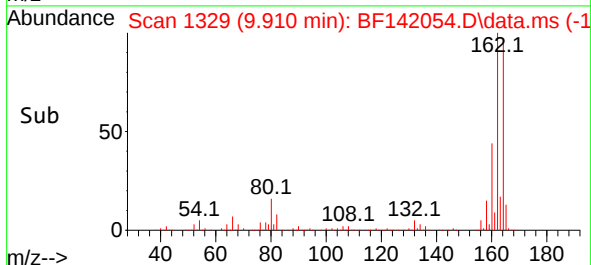
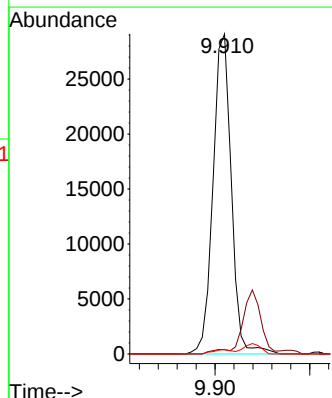
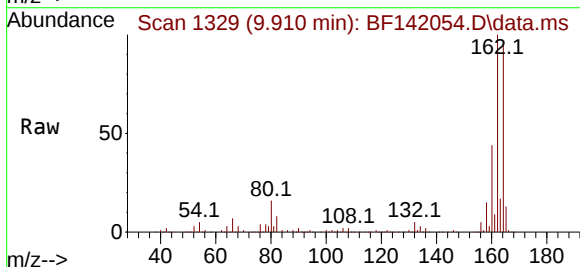
Tgt Ion:165 Resp: 38983

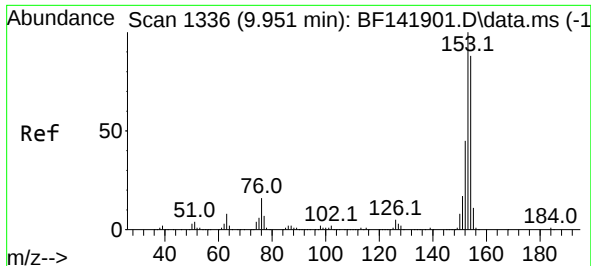
Ion Ratio Lower Upper

165 100

63 1.4 47.0 70.4#

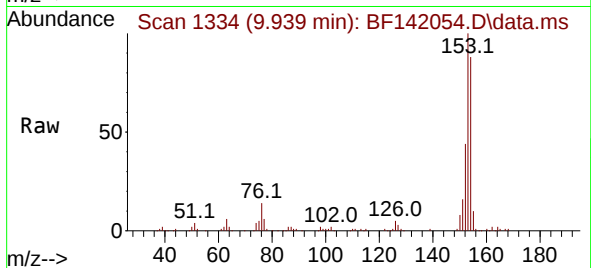
89 1.4 47.4 71.2#



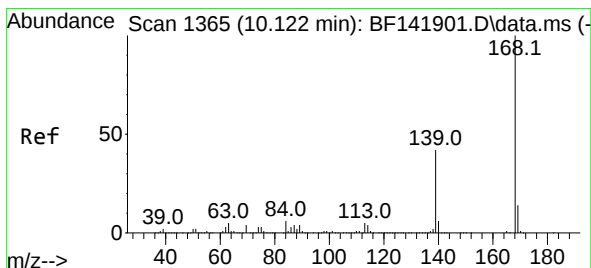
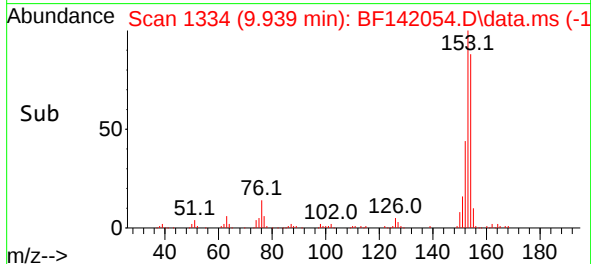
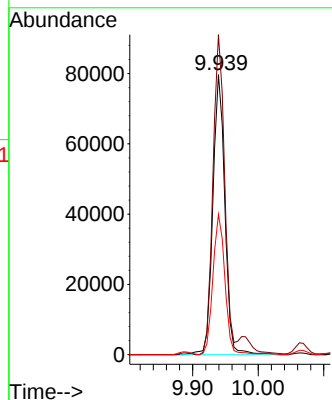


#52
Acenaphthene
Concen: 5.966 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Instrument :
BNA_F
ClientSampleId :

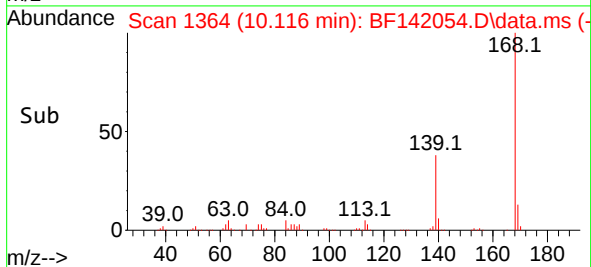
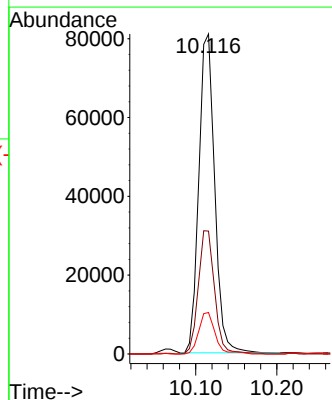
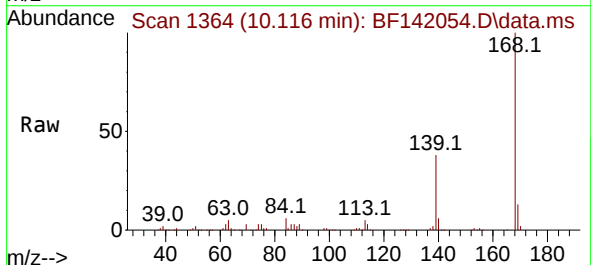


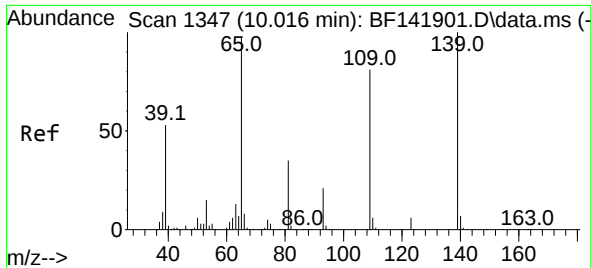
Tgt Ion:154 Resp: 101882
Ion Ratio Lower Upper
154 100
153 114.3 90.7 136.1
152 50.1 41.1 61.7



#55
Dibenzofuran
Concen: 4.505 ng
RT: 10.116 min Scan# 1364
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Tgt Ion:168 Resp: 109939
Ion Ratio Lower Upper
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139 38.4 33.9 50.9
169 13.0 11.0 16.4

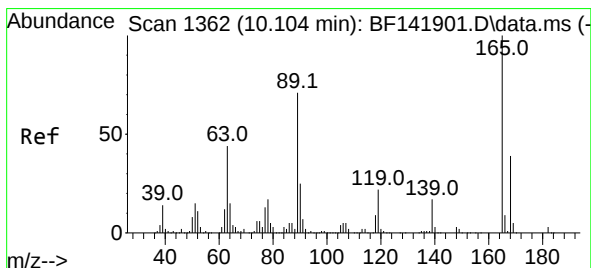
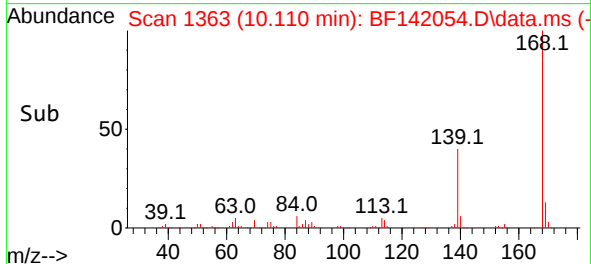
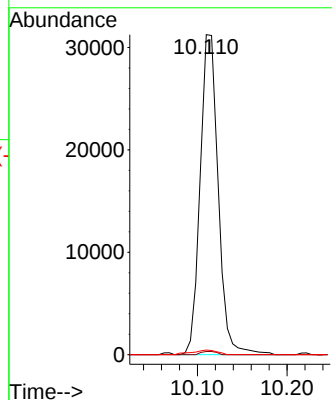
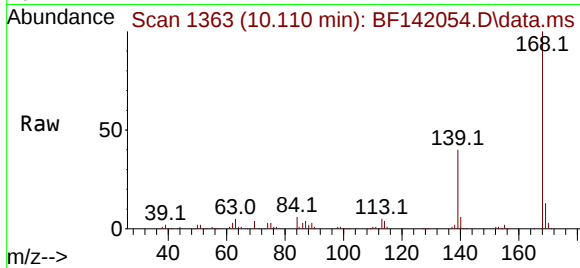




#56
4-Nitrophenol
Concen: 13.595 ng
RT: 10.110 min Scan# 11
Delta R.T. 0.094 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

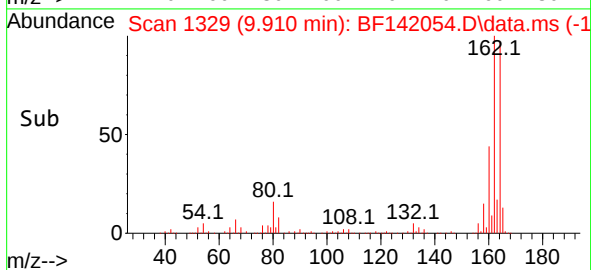
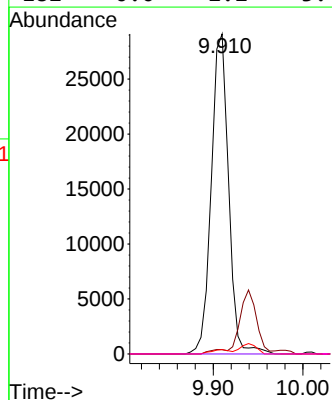
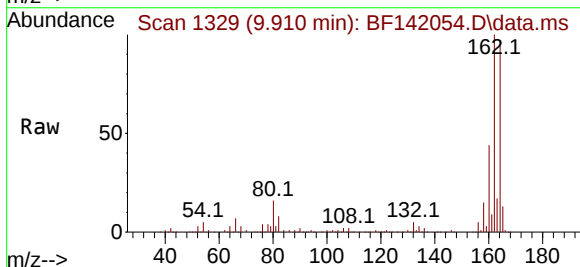
Instrument :
BNA_F
ClientSampleId :

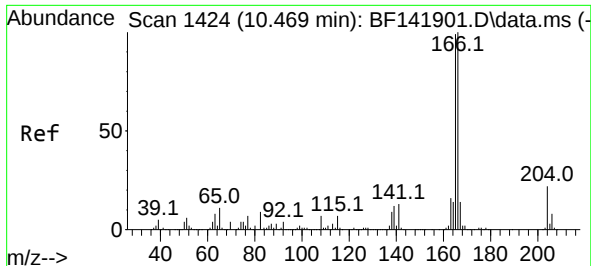
Tgt Ion:139 Resp: 43847
Ion Ratio Lower Upper
139 100
109 1.0 61.6 101.6#
65 1.4 79.4 119.4#



#57
2,4-Dinitrotoluene
Concen: 7.079 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.194 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

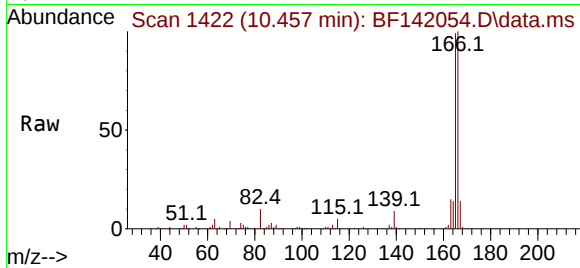
Tgt Ion:165 Resp: 38983
Ion Ratio Lower Upper
165 100
63 1.4 35.4 53.2#
89 1.4 56.6 84.8#
182 0.0 2.2 3.4#



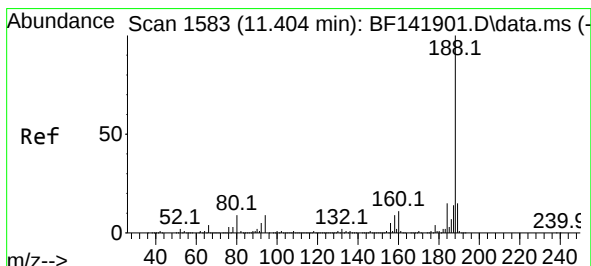
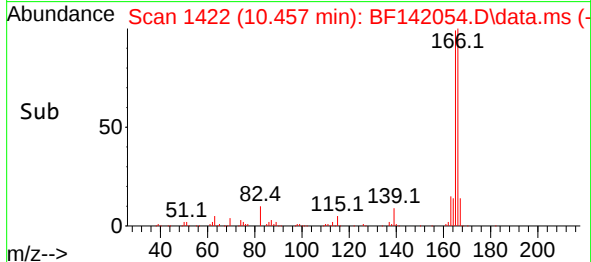
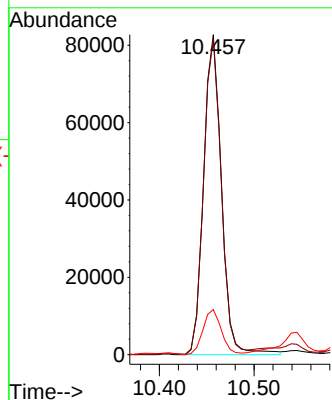


#58
Fluorene
Concen: 5.744 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Instrument :
BNA_F
ClientSampleId :

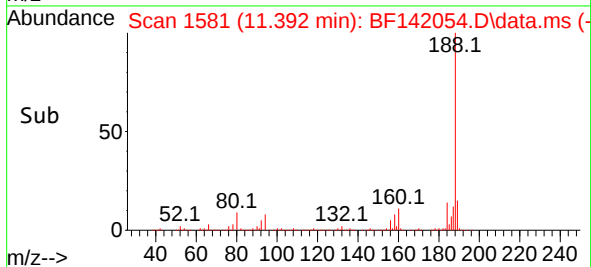
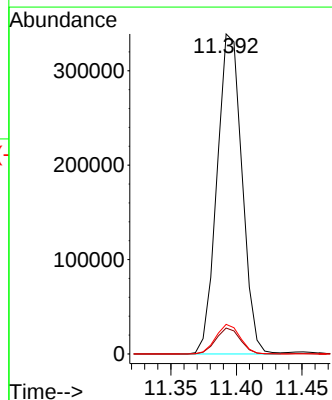
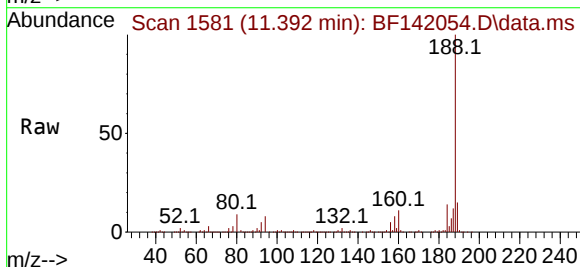


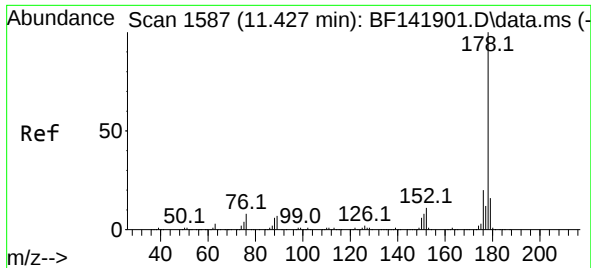
Tgt Ion:166 Resp: 108089
Ion Ratio Lower Upper
166 100
165 98.6 79.0 118.4
167 14.1 11.0 16.4



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Tgt Ion:188 Resp: 449583
Ion Ratio Lower Upper
188 100
94 8.1 6.8 10.2
80 9.3 7.6 11.4

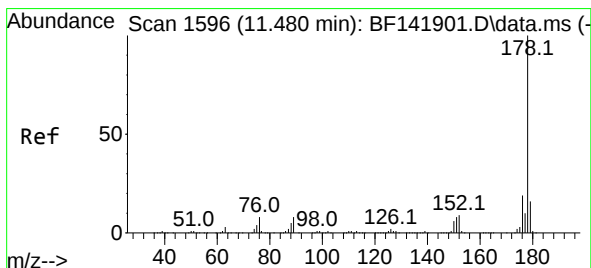
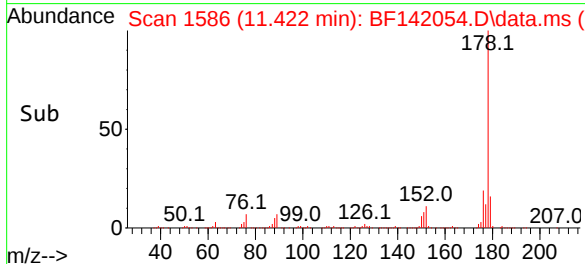
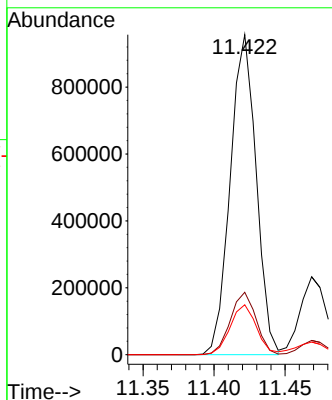
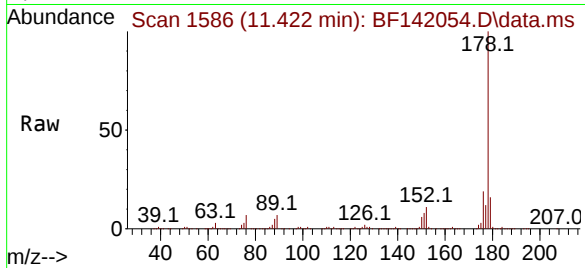




#71
Phenanthrene
Concen: 50.015 ng
RT: 11.422 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

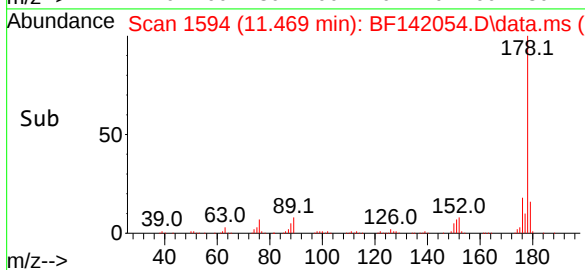
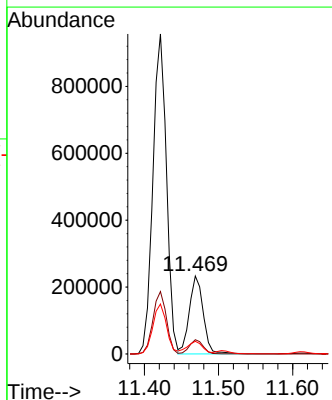
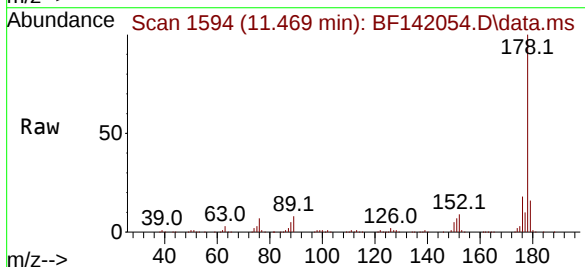
Instrument :
BNA_F
ClientSampleId :

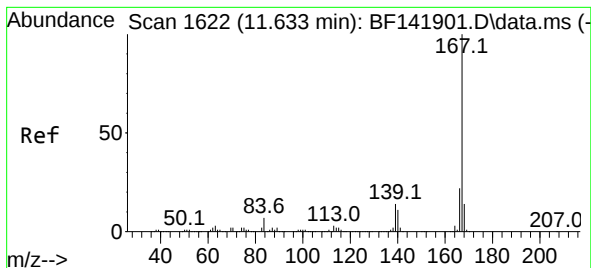
Tgt Ion:178 Resp: 1214523
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.6 12.6 19.0



#72
Anthracene
Concen: 12.476 ng
RT: 11.469 min Scan# 1594
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Tgt Ion:178 Resp: 303953
Ion Ratio Lower Upper
178 100
176 18.3 15.1 22.7
179 16.1 12.6 19.0





#73

Carbazole

Concen: 4.778 ng

RT: 11.622 min Scan# 1

Delta R.T. -0.012 min

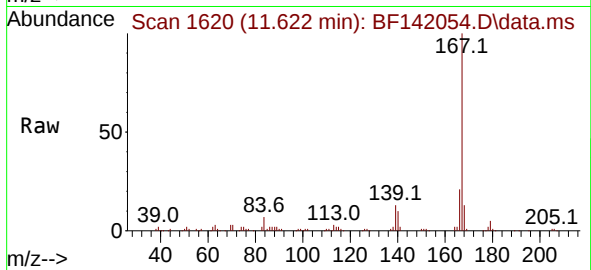
Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :



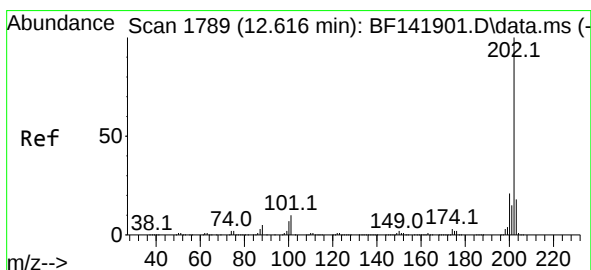
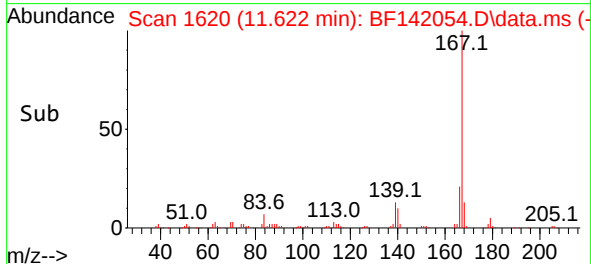
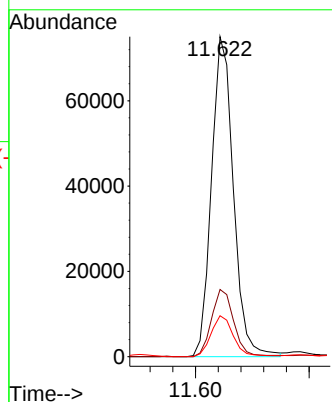
Tgt Ion:167 Resp: 100395

Ion Ratio Lower Upper

167 100

166 21.0 17.4 26.2

139 12.8 11.0 16.6



#75

Fluoranthene

Concen: 39.053 ng

RT: 12.610 min Scan# 1788

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

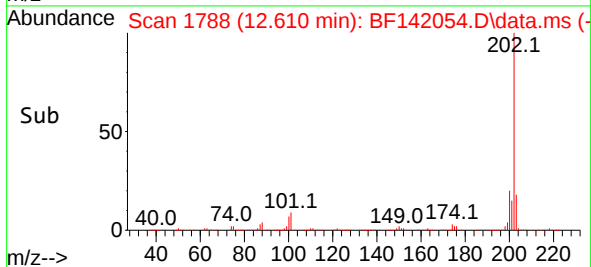
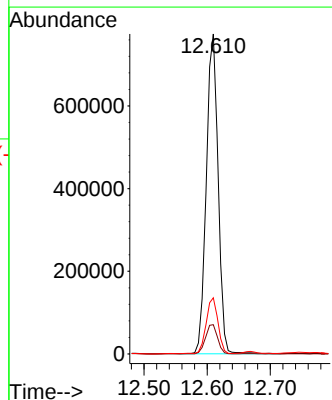
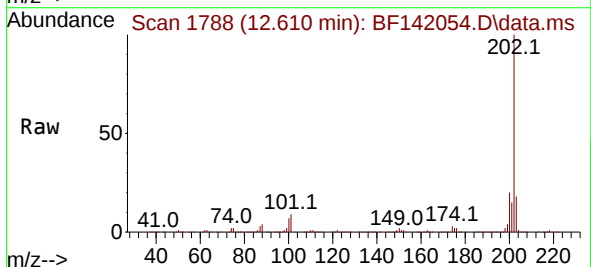
Tgt Ion:202 Resp: 1005973

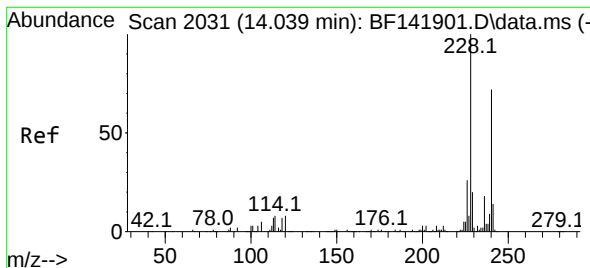
Ion Ratio Lower Upper

202 100

101 9.1 0.0 29.7

203 17.6 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.006 min

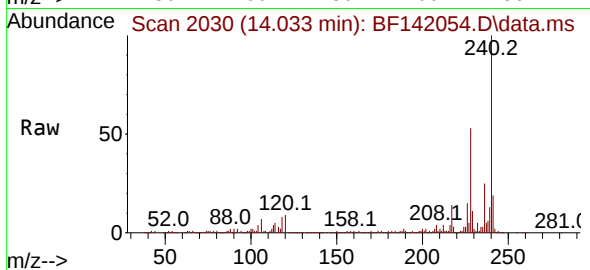
Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :



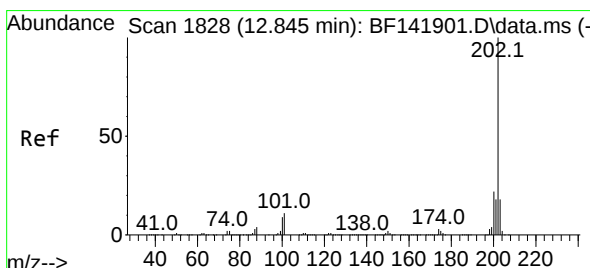
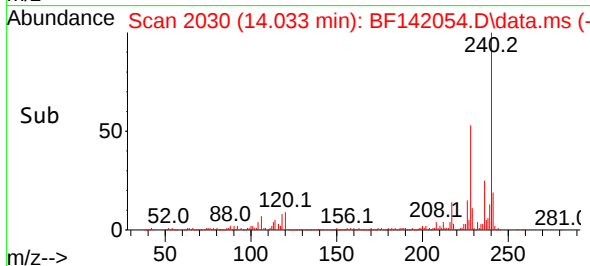
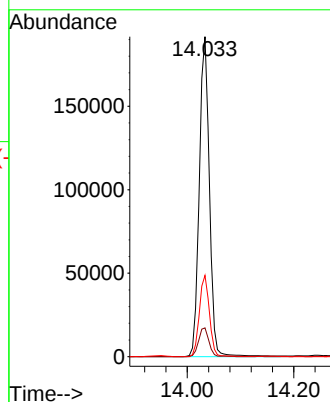
Tgt Ion:240 Resp: 253135

Ion Ratio Lower Upper

240 100

120 9.0 8.4 12.6

236 25.4 20.5 30.7



#78

Pyrene

Concen: 35.800 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

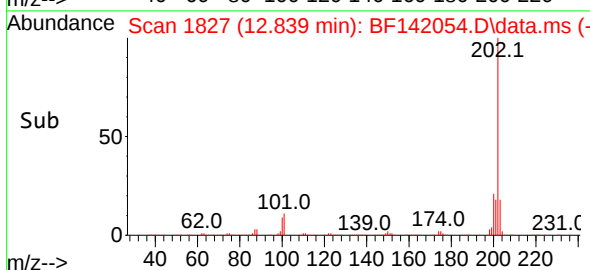
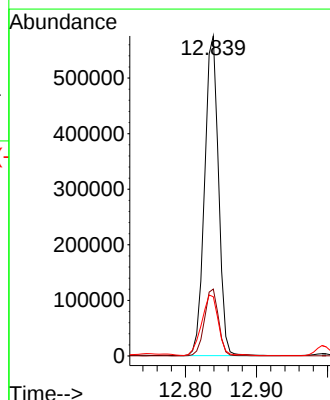
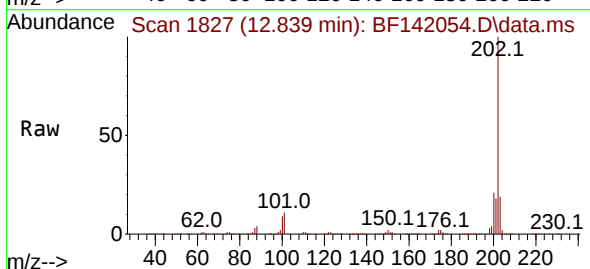
Tgt Ion:202 Resp: 783901

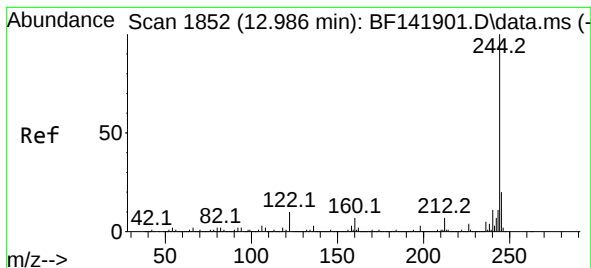
Ion Ratio Lower Upper

202 100

200 20.9 17.3 25.9

203 18.5 14.4 21.6





#79

Terphenyl-d14

Concen: 5.967 ng

RT: 12.974 min Scan# 1850

Delta R.T. -0.012 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

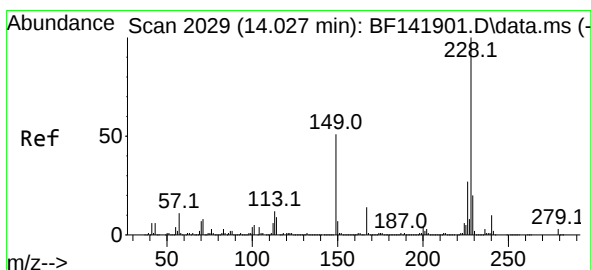
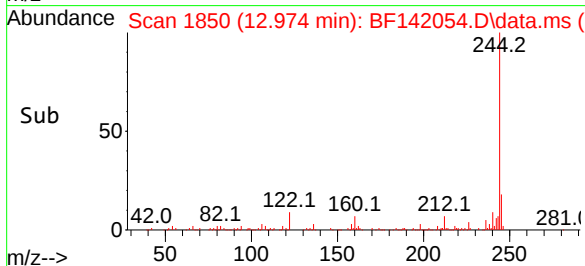
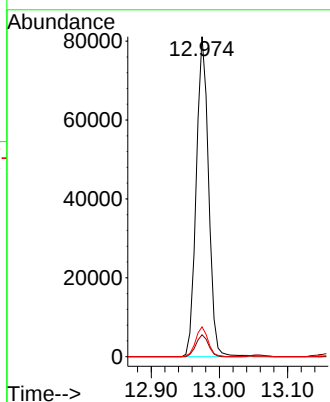
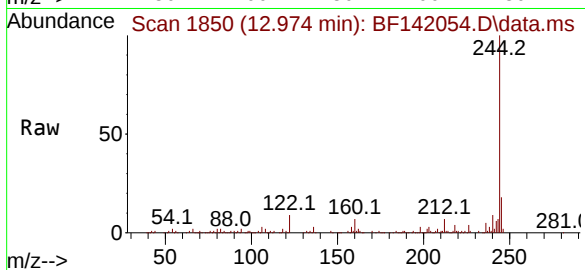
Tgt Ion:244 Resp: 102159

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

122 9.3 7.7 11.5



#81

Benzo(a)anthracene

Concen: 17.330 ng

RT: 14.021 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

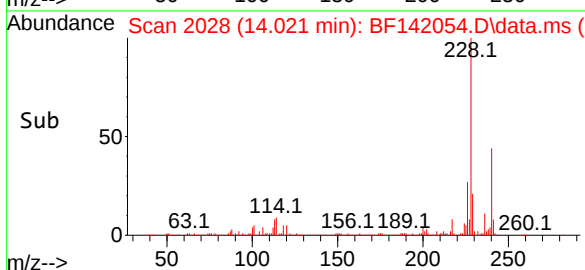
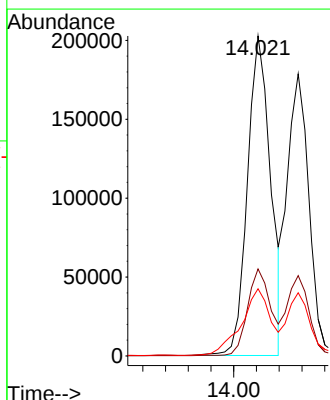
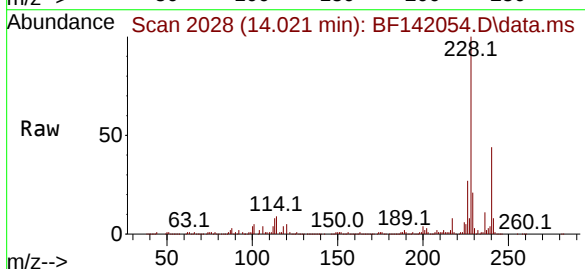
Tgt Ion:228 Resp: 287869

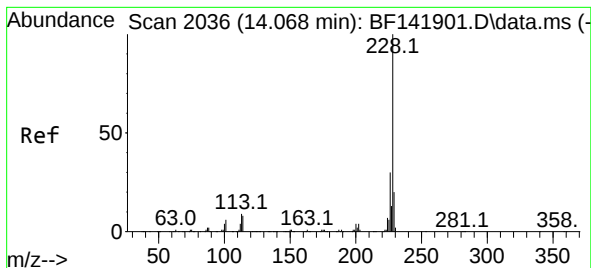
Ion Ratio Lower Upper

228 100

226 27.2 21.8 32.8

229 21.0 16.0 24.0





#83

Chrysene

Concen: 15.635 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.012 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

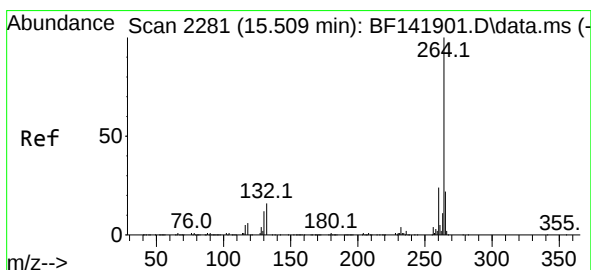
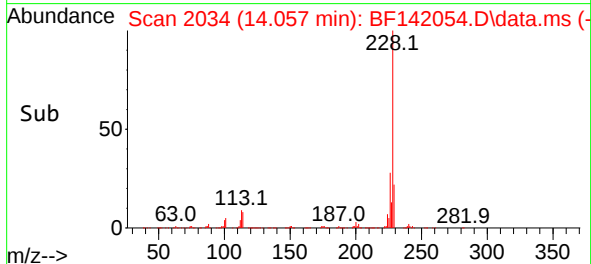
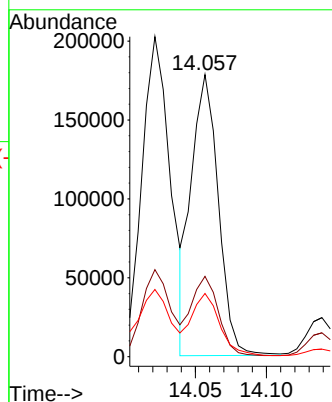
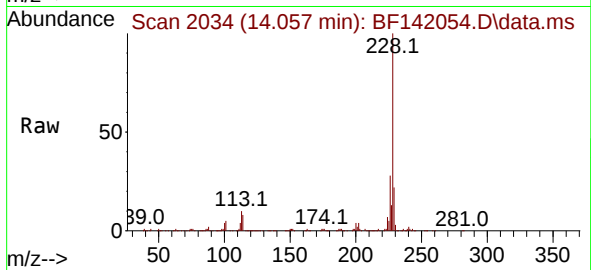
Tgt Ion:228 Resp: 235419

Ion Ratio Lower Upper

228 100

226 28.5 24.1 36.1

229 22.4 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 2280

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

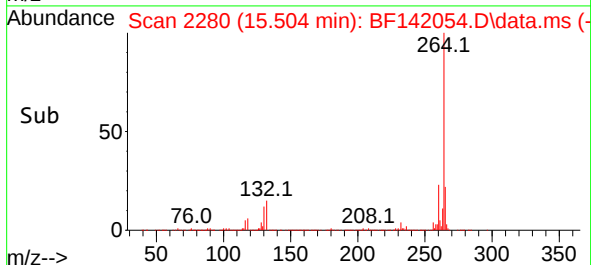
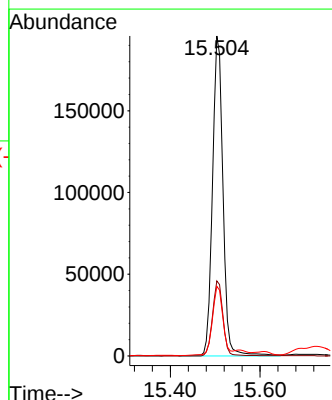
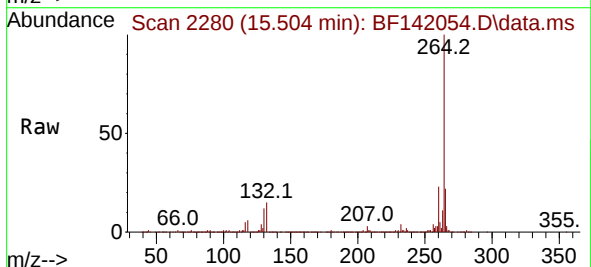
Tgt Ion:264 Resp: 317814

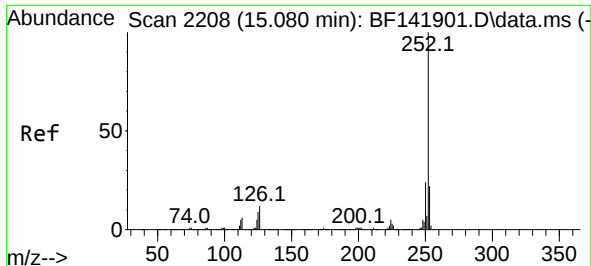
Ion Ratio Lower Upper

264 100

260 23.4 19.1 28.7

265 21.8 17.5 26.3

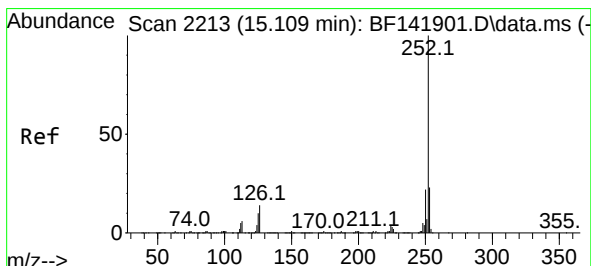
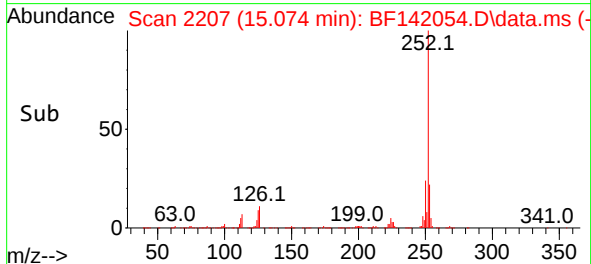
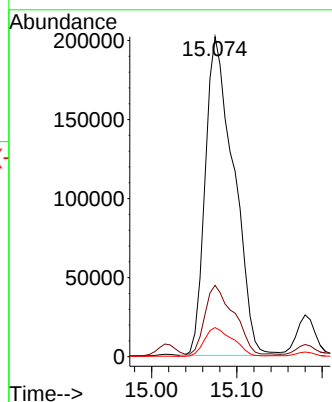
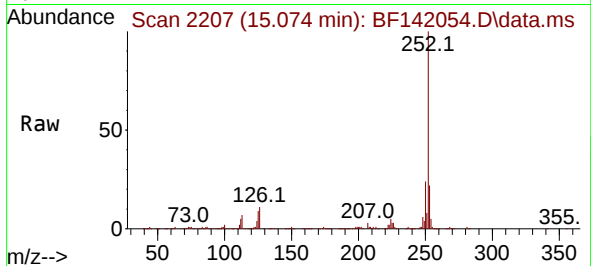




#88
Benzo(b)fluoranthene
Concen: 21.517 ng
RT: 15.074 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

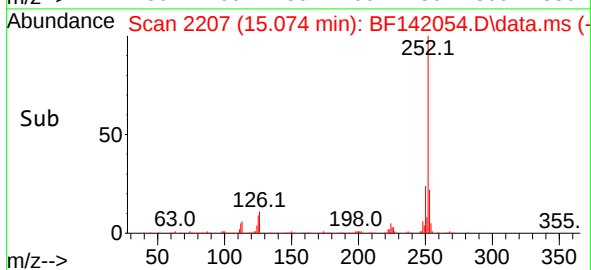
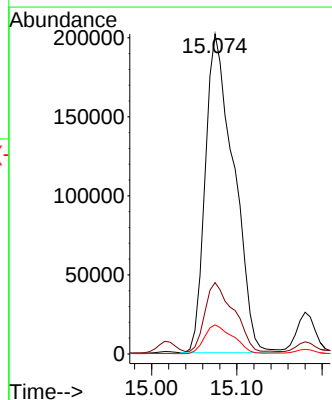
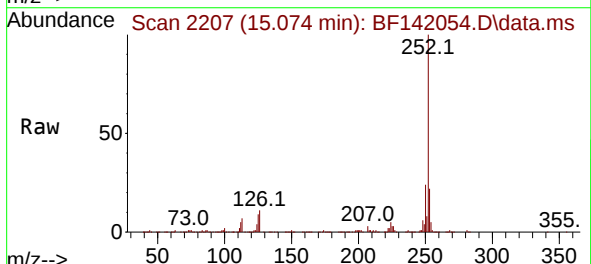
Instrument :
BNA_F
ClientSampleId :

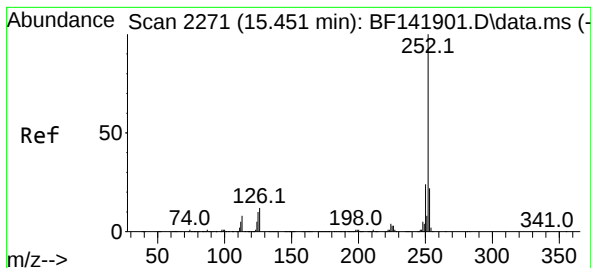
Tgt Ion:252 Resp: 468664
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 9.1 7.0 10.4



#89
Benzo(k)fluoranthene
Concen: 25.143 ng
RT: 15.074 min Scan# 2207
Delta R.T. -0.035 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Tgt Ion:252 Resp: 468664
Ion Ratio Lower Upper
252 100
253 22.3 17.7 26.5
125 9.1 7.2 10.8





#90

Benzo(a)pyrene

Concen: 14.393 ng

RT: 15.439 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

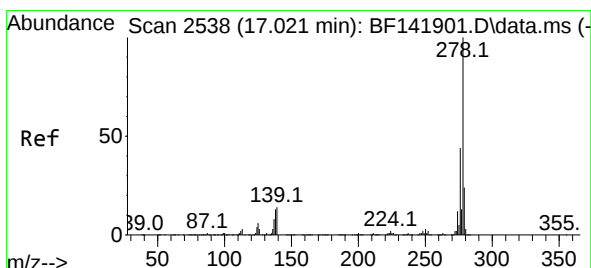
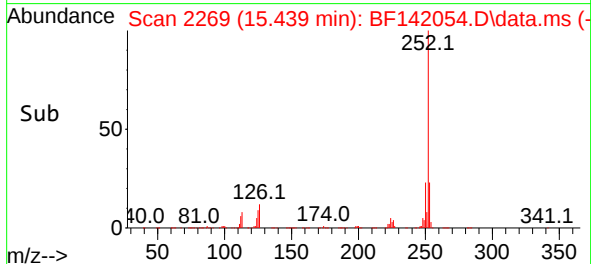
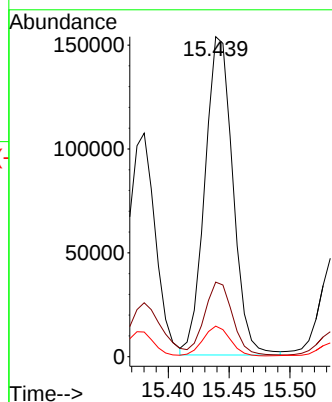
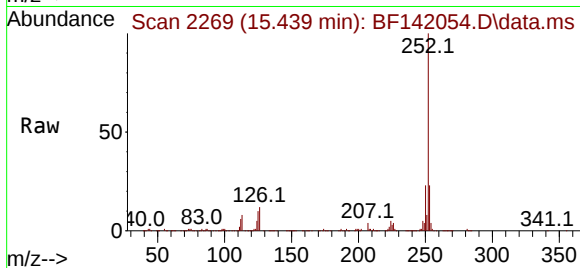
Tgt Ion:252 Resp: 245308

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

125 9.5 7.8 11.8



#91

Dibenzo(a,h)anthracene

Concen: 2.041 ng

RT: 16.998 min Scan# 2534

Delta R.T. -0.023 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

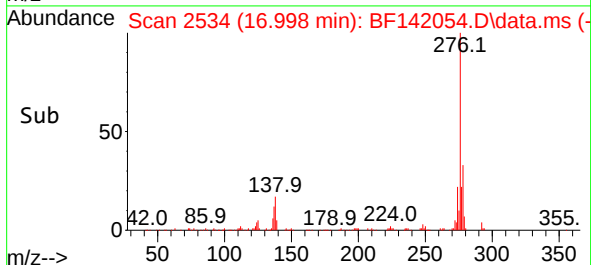
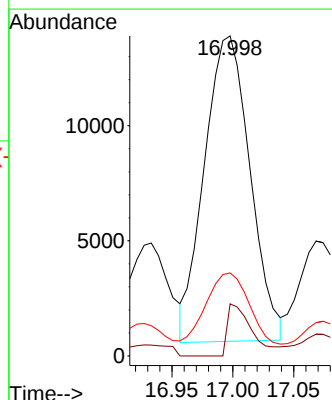
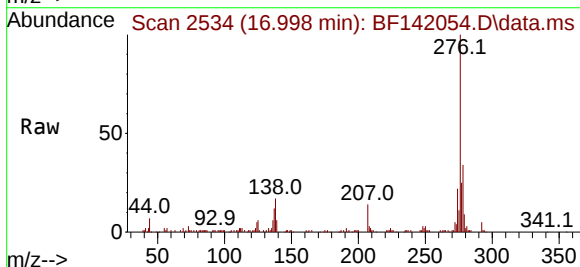
Tgt Ion:278 Resp: 34616

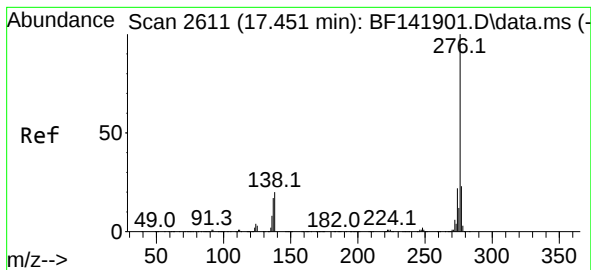
Ion Ratio Lower Upper

278 100

139 16.3 11.4 17.2

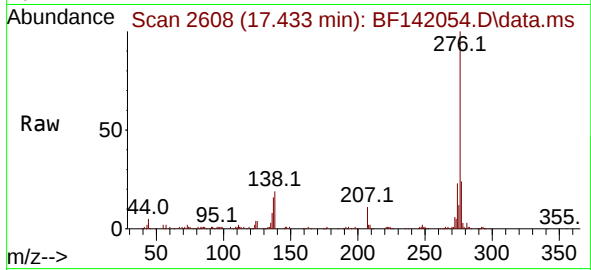
279 25.9 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 7.862 ng
 RT: 17.433 min Scan# 20
 Delta R.T. -0.018 min
 Lab File: BF142054.D
 Acq: 24 Mar 2025 14:55

Instrument :
 BNA_F
 ClientSampleId :



Tgt Ion: 276 Resp: 131795

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.7	28.1
138	19.2	15.8	23.8

