

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136049.D
 Acq On : 31 Oct 2023 14:02
 Operator : CG\JU
 Sample : 04707-05DL 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-104-1(5-10)DL

Quant Time: Oct 31 14:47:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

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

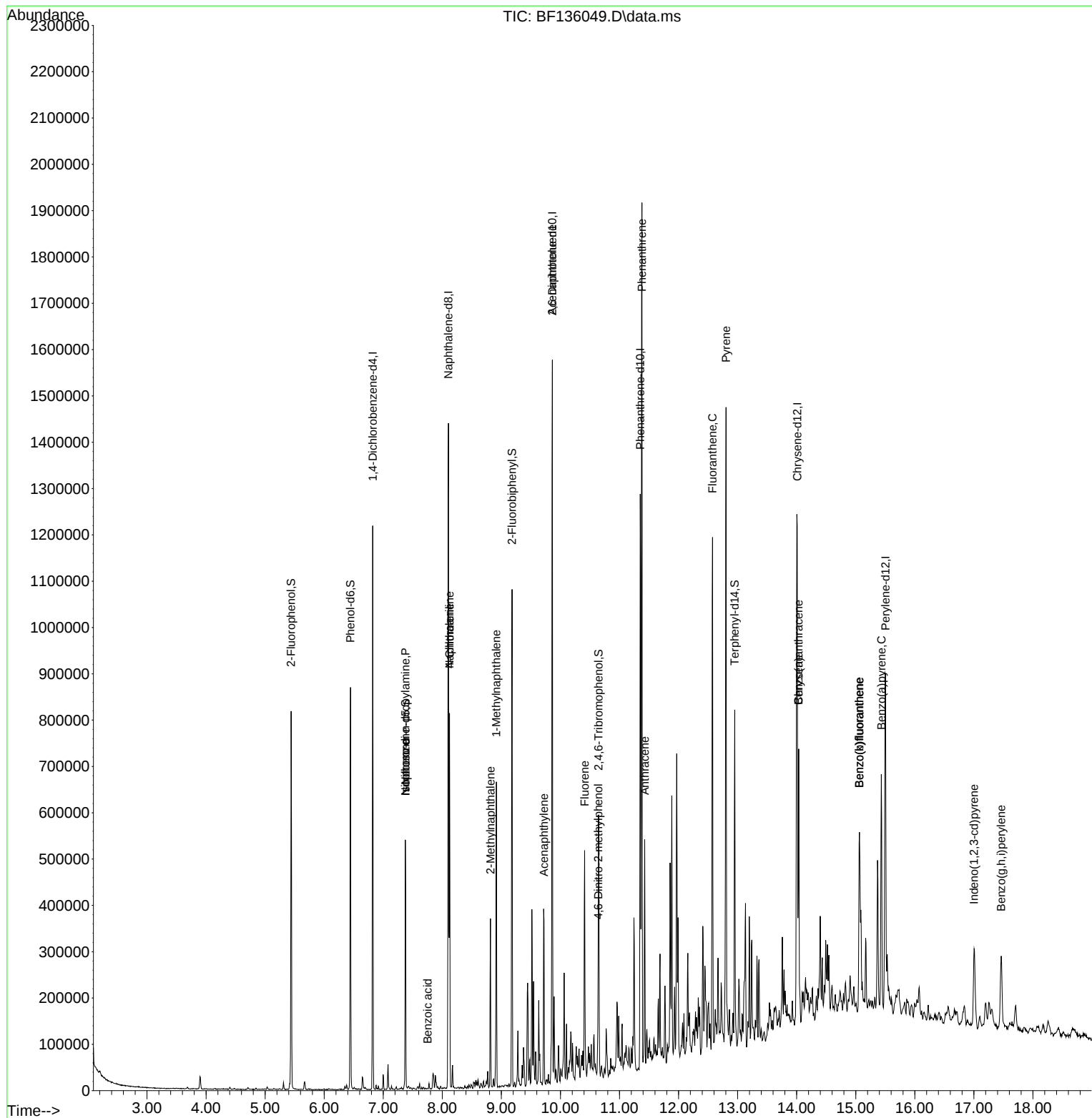
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	156591	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	606528	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	297153	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	473671	20.000	ng	0.00
76) Chrysene-d12	14.010	240	284619	20.000	ng	0.00
86) Perylene-d12	15.504	264	363311	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	207978	20.871	ng	-0.01
7) Phenol-d6	6.445	99	258673	20.834	ng	-0.01
23) Nitrobenzene-d5	7.375	82	145126	14.424	ng	-0.02
42) 2,4,6-Tribromophenol	10.645	330	54678	17.239	ng	-0.01
45) 2-Fluorobiphenyl	9.181	172	297088	15.938	ng	0.00
79) Terphenyl-d14	12.951	244	225857	12.332	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.375	70	18671	2.632	ng	# 80
25) Isophorone	7.375	82	144165	7.590	ng	# 64
31) Naphthalene	8.122	128	301131	10.296	ng	99
32) Benzoic acid	7.751	122	68	5.123	ng	86
33) 4-Chloroaniline	8.122	127	37740	2.946	ng	# 30
37) 2-Methylnaphthalene	8.816	142	78769	4.017	ng	98
38) 1-Methylnaphthalene	8.916	142	149865	8.212	ng	100
49) Acenaphthylene	9.722	152	122964	4.720	ng	99
51) 2,6-Dinitrotoluene	9.863	165	42192	10.064	ng	# 28
58) Fluorene	10.410	166	125215	6.925	ng	100
65) 4,6-Dinitro-2-methylph...	10.639	198	54	5.809	ng	# 1
71) Phenanthrene	11.380	178	691443	28.992	ng	98
72) Anthracene	11.427	178	164925	6.749	ng	99
75) Fluoranthene	12.574	202	430865	17.586	ng	98
78) Pyrene	12.804	202	552804	22.030	ng	100
81) Benzo(a)anthracene	14.033	228	213134	11.311	ng	94
83) Chrysene	14.033	228	213134	11.486	ng	97
87) Indeno(1,2,3-cd)pyrene	17.004	276	122347	5.153	ng	97
88) Benzo(b)fluoranthene	15.063	252	323737	15.059	ng	99
89) Benzo(k)fluoranthene	15.063	252	323737	15.220	ng	99
90) Benzo(a)pyrene	15.433	252	236561	11.843	ng	97
92) Benzo(g,h,i)perylene	17.462	276	123906	8.153	ng	100

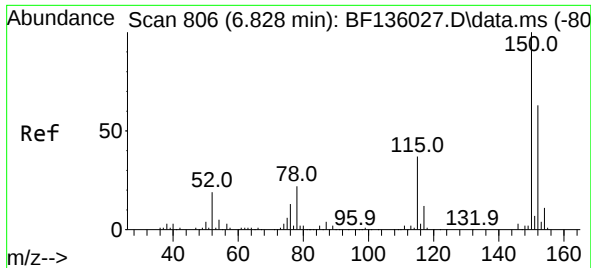
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB-104-1(5-10)DL

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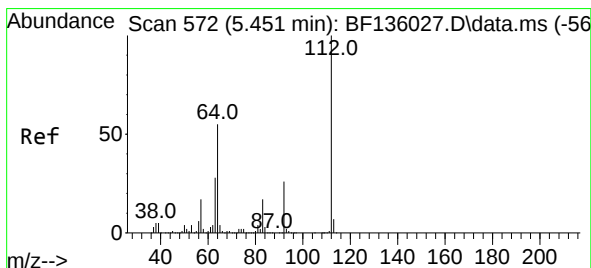
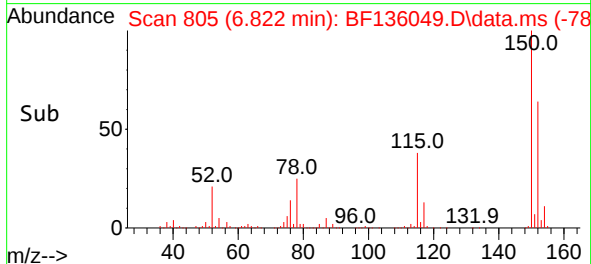
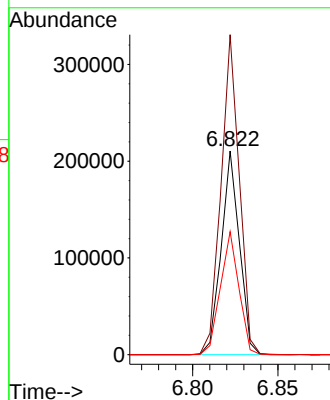
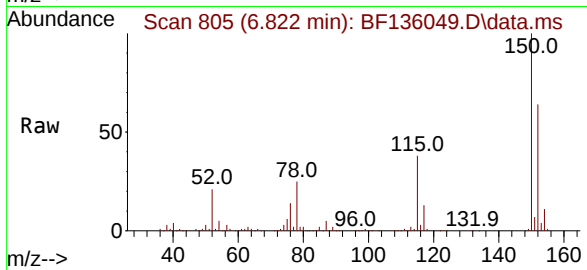




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

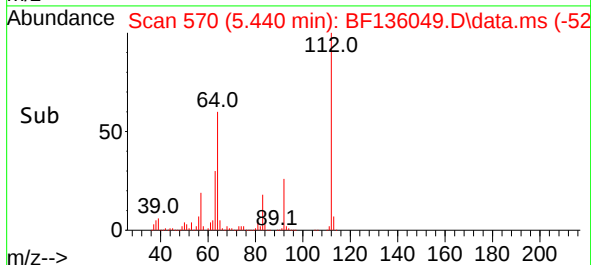
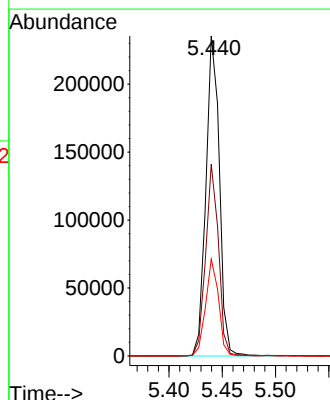
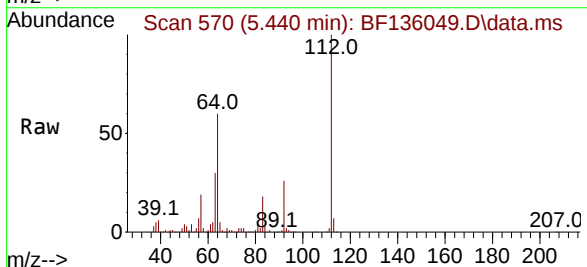
Instrument :
BNA_F
ClientSampleId :
SB-104-1(5-10)DL

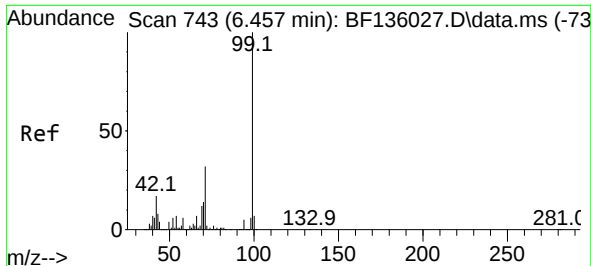
Tgt Ion:152 Resp: 156591
Ion Ratio Lower Upper
152 100
150 157.1 126.4 189.6
115 60.4 47.0 70.4



#5
2-Fluorophenol
Concen: 20.871 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

Tgt Ion:112 Resp: 207978
Ion Ratio Lower Upper
112 100
64 60.0 43.9 65.9
63 30.3 22.4 33.6

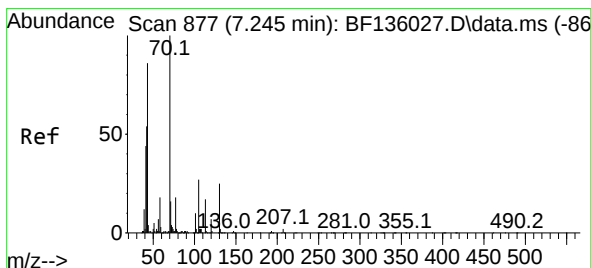
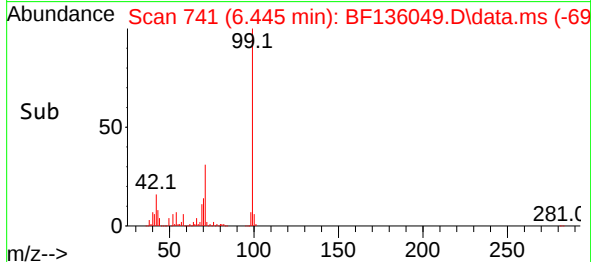
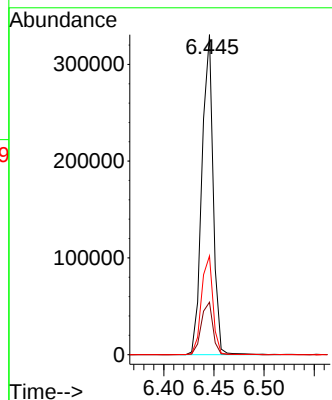
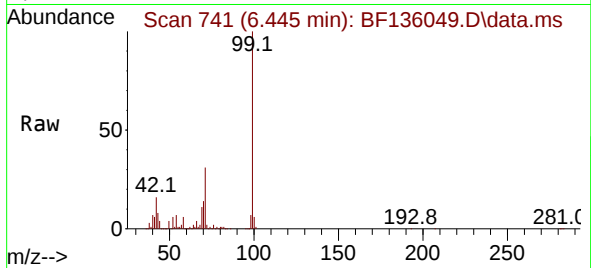




#7
Phenol-d6
Concen: 20.834 ng
RT: 6.445 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

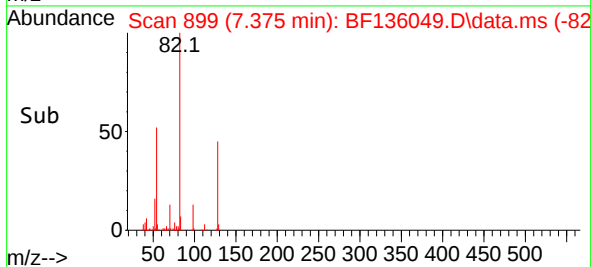
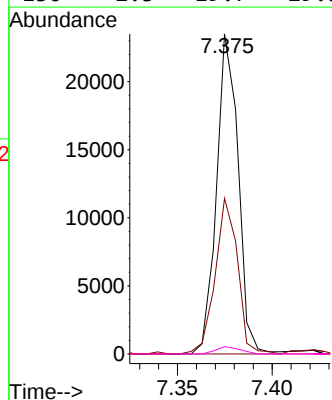
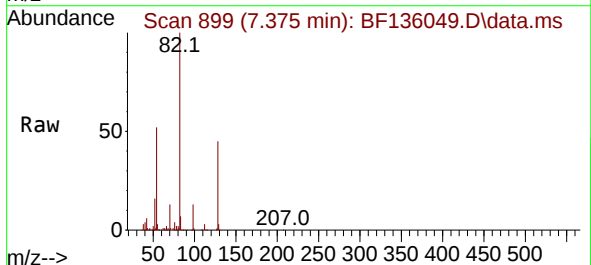
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ClientSampleId :
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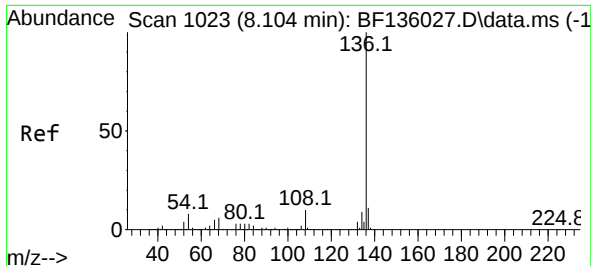
Tgt Ion: 99 Resp: 258673
Ion Ratio Lower Upper
99 100
42 16.4 13.7 20.5
71 30.8 25.9 38.9



#19
n-Nitroso-di-n-propylamine
Concen: 2.632 ng
RT: 7.375 min Scan# 899
Delta R.T. 0.130 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

Tgt Ion: 70 Resp: 18671
Ion Ratio Lower Upper
70 100
42 48.6 43.0 64.4
101 0.0 8.0 12.0#
130 2.3 19.7 29.5#

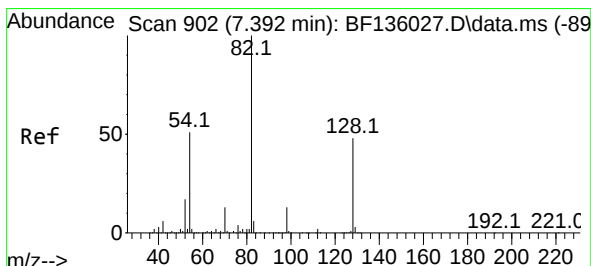
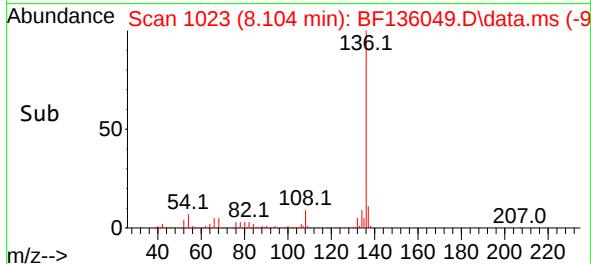
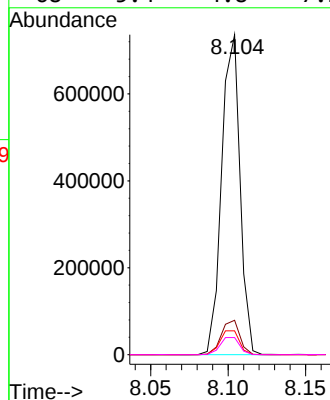
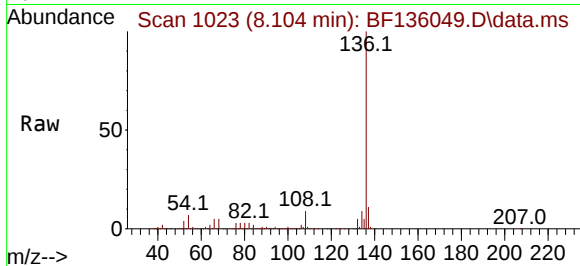




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

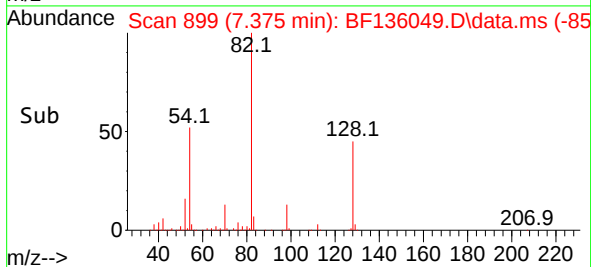
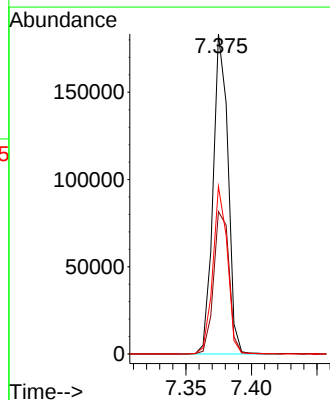
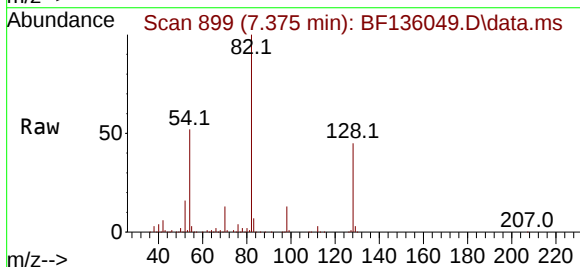
Instrument :
BNA_F
ClientSampleId :
SB-104-1(5-10)DL

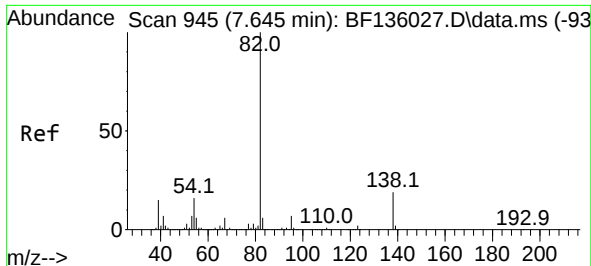
Tgt Ion:	136	Resp:	606528
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	7.4	6.6	9.8
68	5.4	4.8	7.2



#23
Nitrobenzene-d5
Concen: 14.424 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.017 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

Tgt Ion:	82	Resp:	145126
Ion	Ratio	Lower	Upper
82	100		
128	44.5	38.6	57.8
54	52.4	40.8	61.2

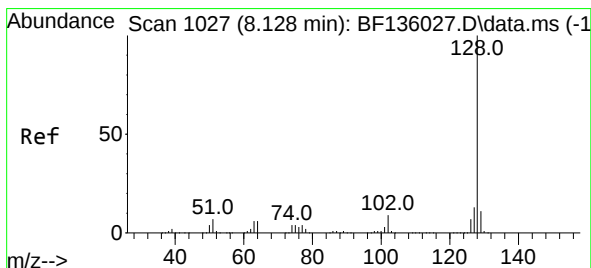
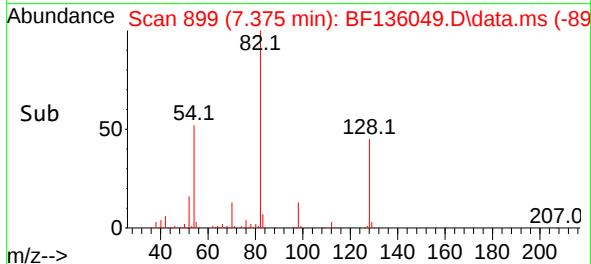
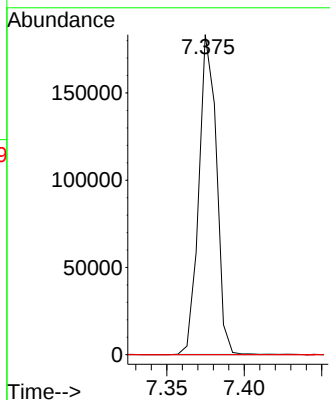
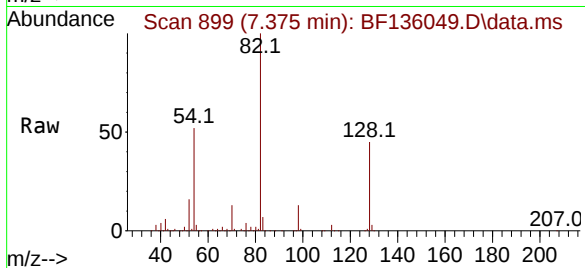




#25
Isophorone
Concen: 7.590 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.270 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

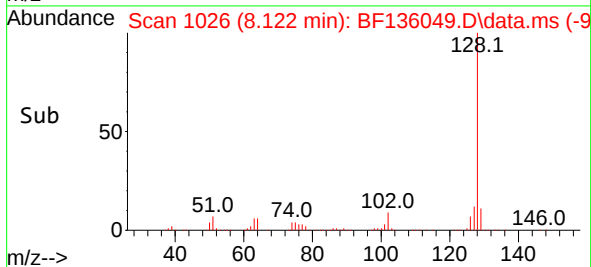
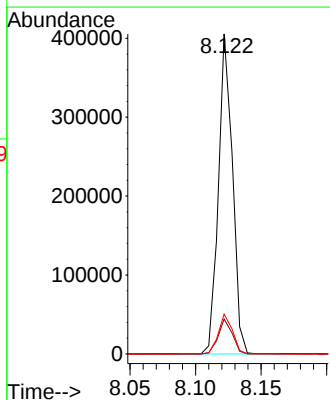
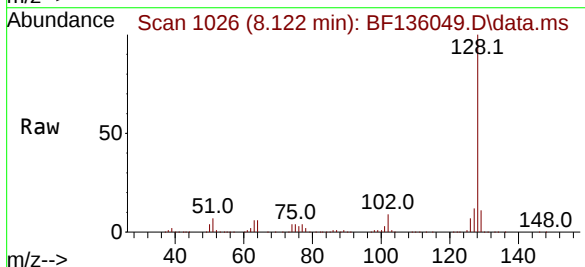
Instrument :
BNA_F
ClientSampleId :
SB-104-1(5-10)DL

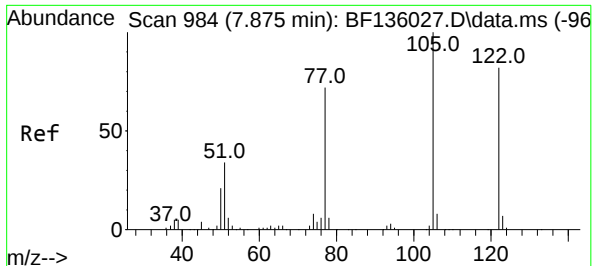
Tgt Ion: 82 Resp: 144165
Ion Ratio Lower Upper
82 100
95 0.0 5.9 8.9#
138 0.0 15.3 22.9#



#31
Naphthalene
Concen: 10.296 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

Tgt Ion: 128 Resp: 301131
Ion Ratio Lower Upper
128 100
129 10.9 8.9 13.3
127 12.5 10.5 15.7





#32

Benzoic acid

Concen: 5.123 ng

RT: 7.751 min Scan# 91

Delta R.T. -0.124 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

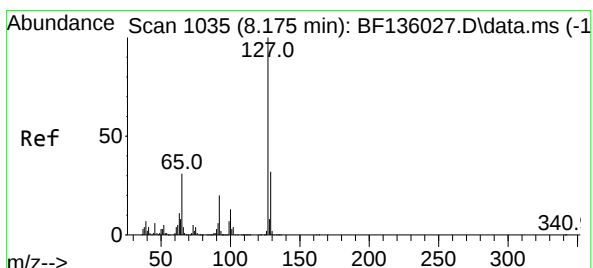
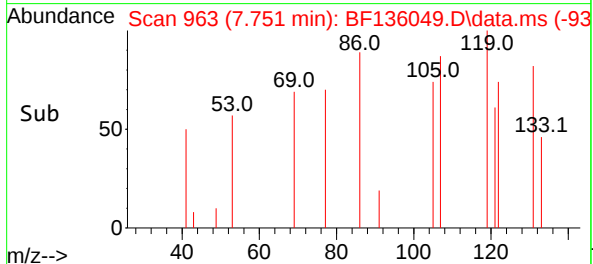
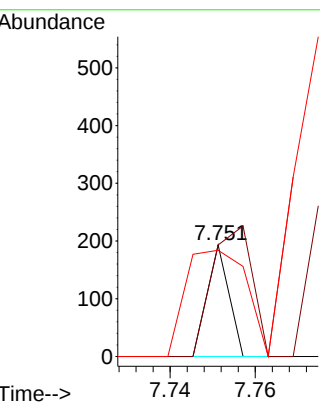
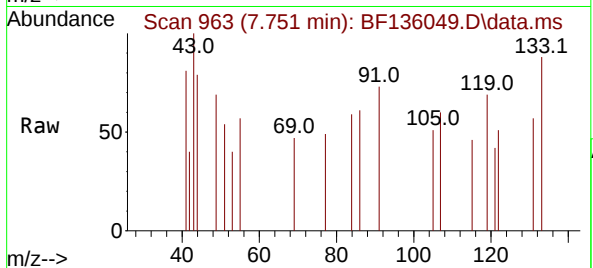
Tgt Ion:122 Resp: 68

Ion Ratio Lower Upper

122 100

105 100.0 99.5 139.5

77 95.3 66.8 106.8



#33

4-Chloroaniline

Concen: 2.946 ng

RT: 8.122 min Scan# 1026

Delta R.T. -0.053 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Tgt Ion:127 Resp: 37740

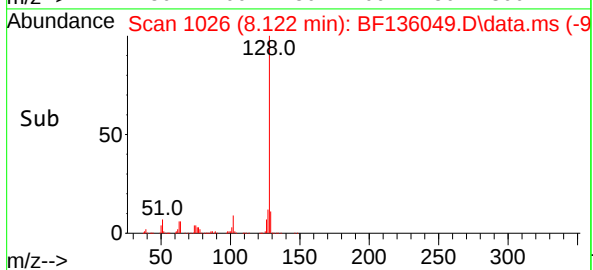
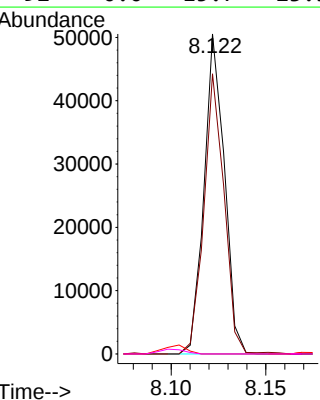
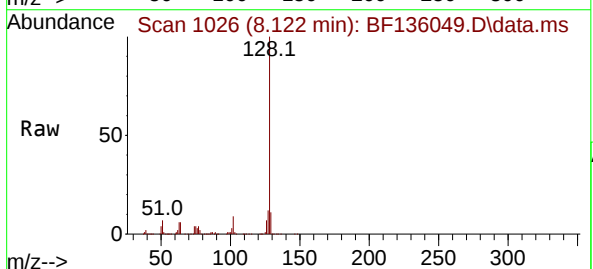
Ion Ratio Lower Upper

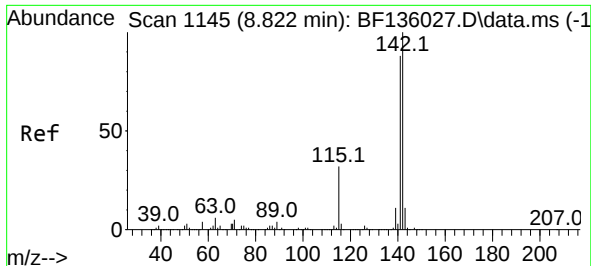
127 100

129 87.5 25.9 38.9#

65 0.0 24.6 37.0#

92 0.0 15.7 23.5#





#37

2-Methylnaphthalene

Concen: 4.017 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

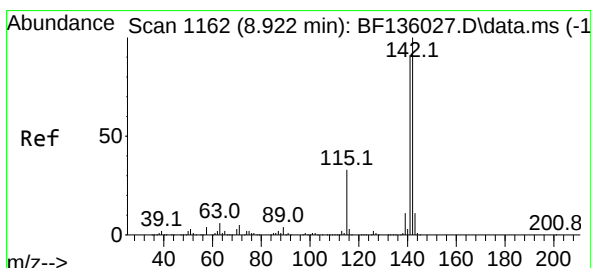
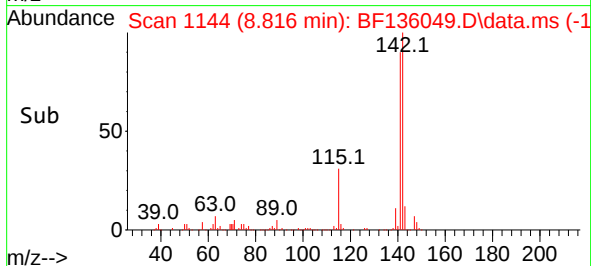
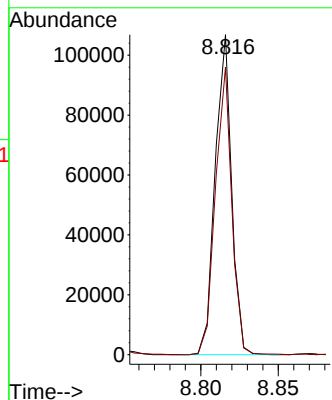
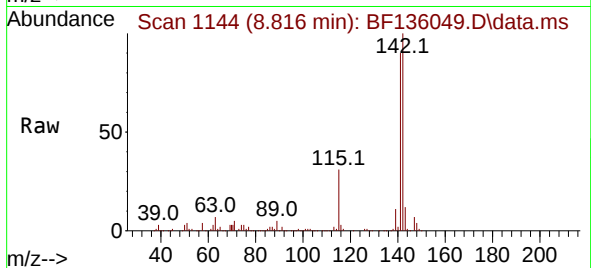
SB-104-1(5-10)DL

Tgt Ion:142 Resp: 78769

Ion Ratio Lower Upper

142 100

141 89.9 70.4 105.6



#38

1-Methylnaphthalene

Concen: 8.212 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136049.D

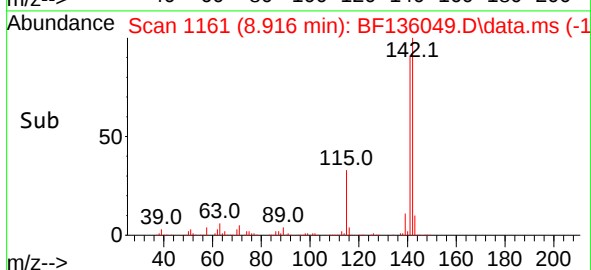
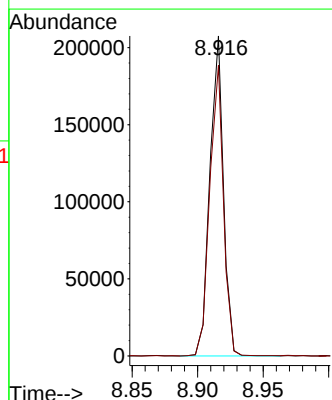
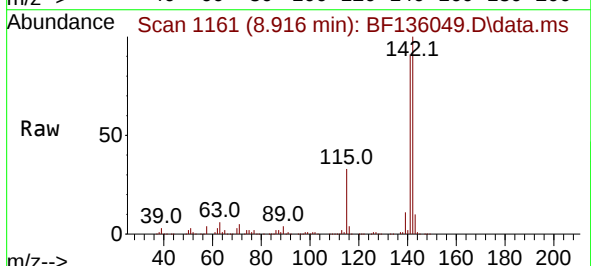
Acq: 31 Oct 2023 14:02

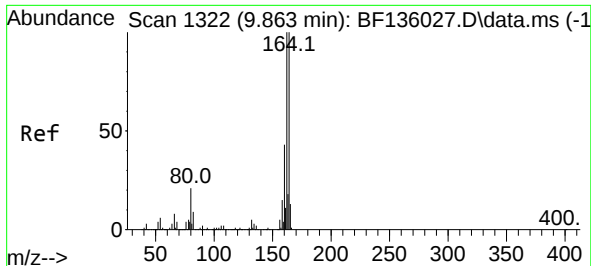
Tgt Ion:142 Resp: 149865

Ion Ratio Lower Upper

142 100

141 90.8 72.6 109.0

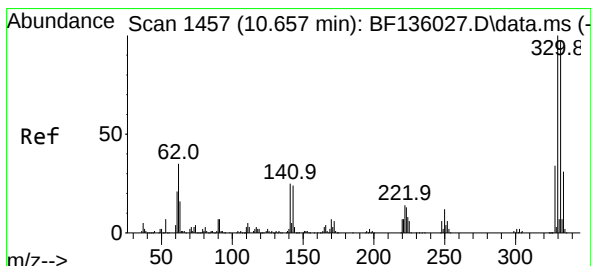
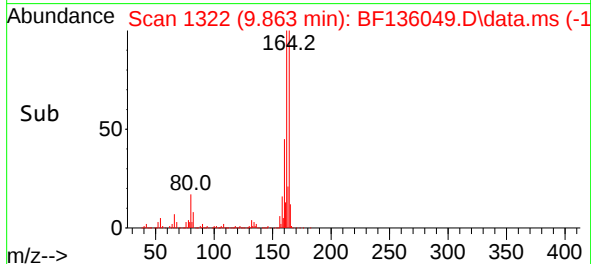
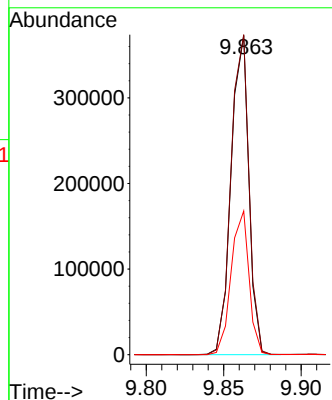
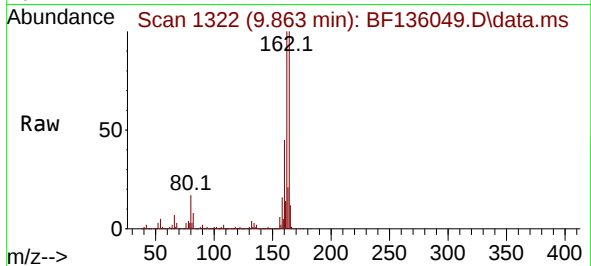




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

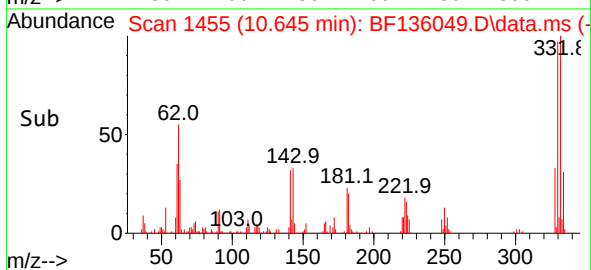
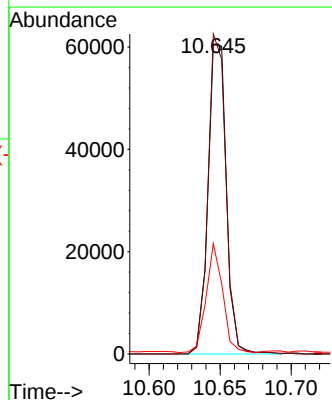
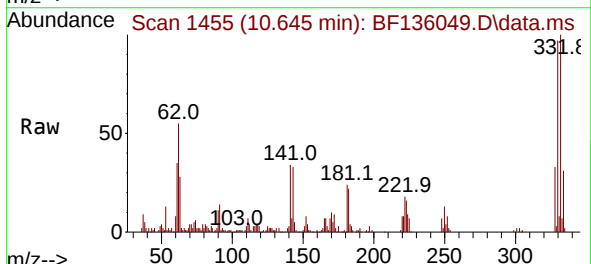
Instrument :
BNA_F
ClientSampleId :
SB-104-1(5-10)DL

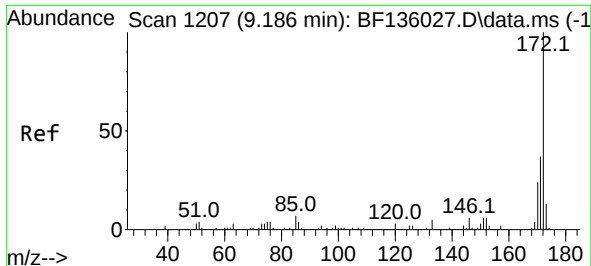
Tgt Ion:164 Resp: 297153
Ion Ratio Lower Upper
164 100
162 100.3 80.1 120.1
160 45.0 34.8 52.2



#42
2,4,6-Tribromophenol
Concen: 17.239 ng
RT: 10.645 min Scan# 1455
Delta R.T. -0.012 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

Tgt Ion:330 Resp: 54678
Ion Ratio Lower Upper
330 100
332 99.9 76.9 115.3
141 31.4 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 15.938 ng

RT: 9.181 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

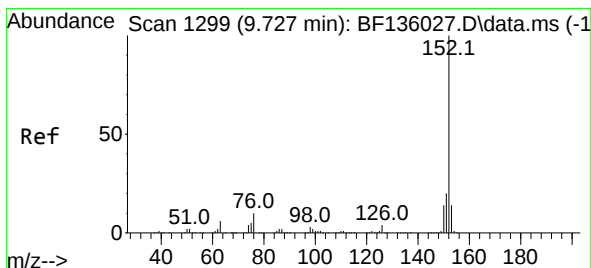
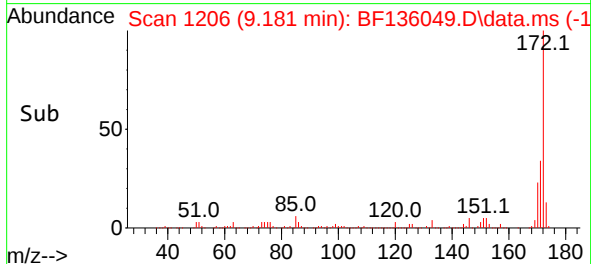
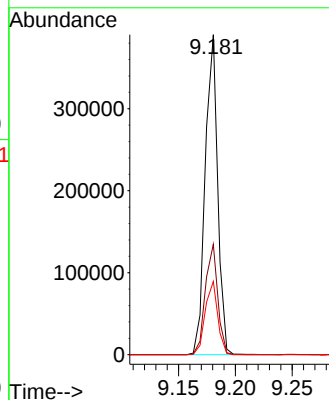
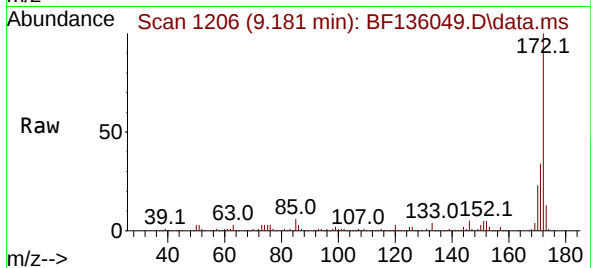
Tgt Ion:172 Resp: 297088

Ion Ratio Lower Upper

172 100

171 34.5 29.4 44.0

170 22.9 19.3 28.9



#49

Acenaphthylene

Concen: 4.720 ng

RT: 9.722 min Scan# 1298

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

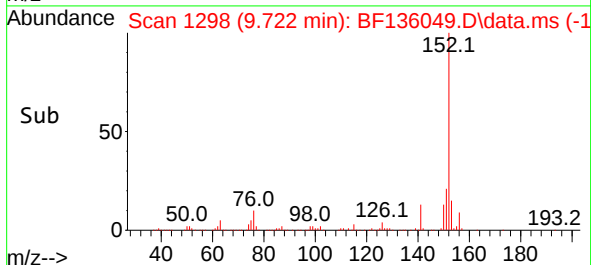
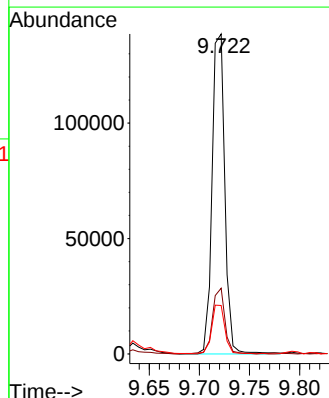
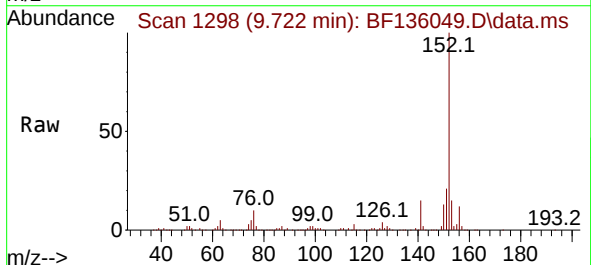
Tgt Ion:152 Resp: 122964

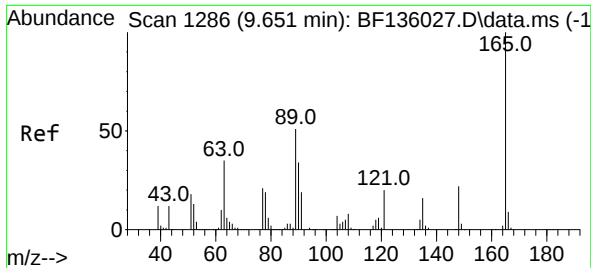
Ion Ratio Lower Upper

152 100

151 20.6 16.1 24.1

153 15.2 11.4 17.2

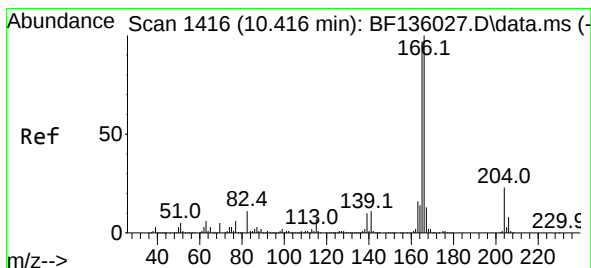
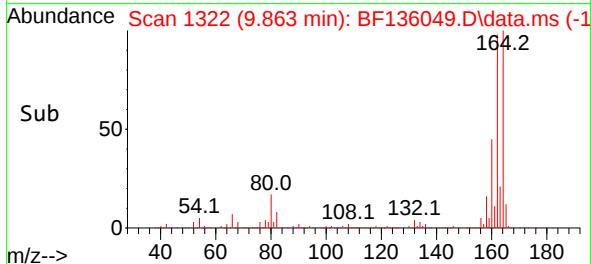
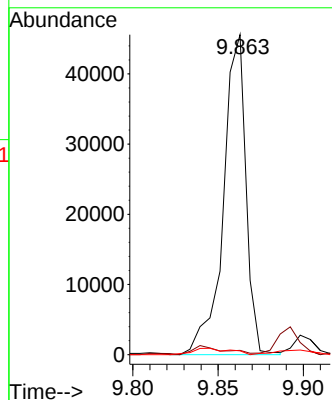
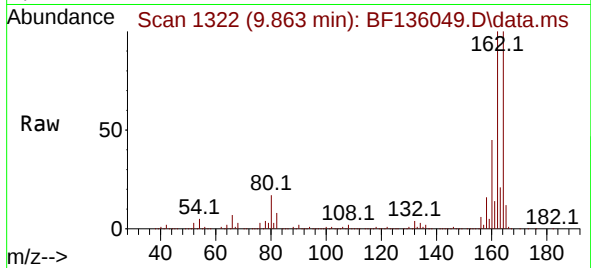




#51
2,6-Dinitrotoluene
Concen: 10.064 ng
RT: 9.863 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

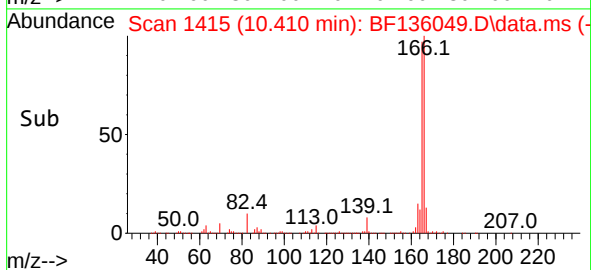
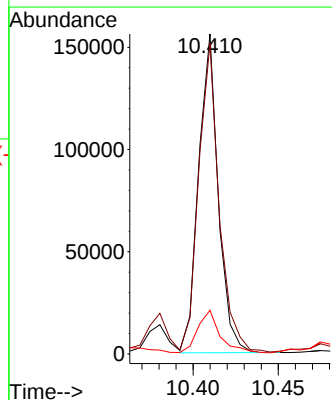
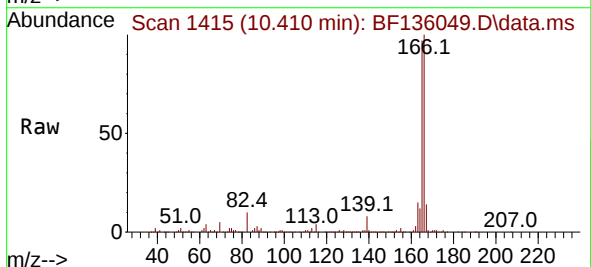
Instrument :
BNA_F
ClientSampleId :
SB-104-1(5-10)DL

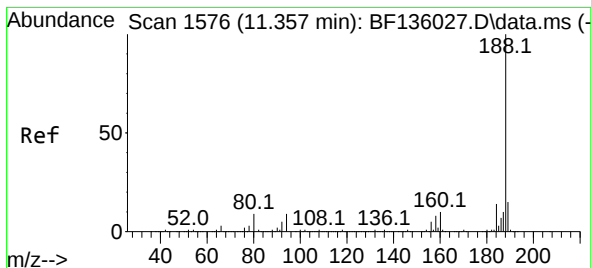
Tgt Ion:165 Resp: 42192
Ion Ratio Lower Upper
165 100
63 1.3 40.8 61.2#
89 1.2 41.1 61.7#



#58
Fluorene
Concen: 6.925 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

Tgt Ion:166 Resp: 125215
Ion Ratio Lower Upper
166 100
165 97.1 77.7 116.5
167 13.7 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.351 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

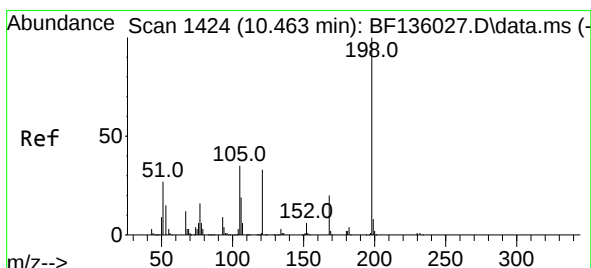
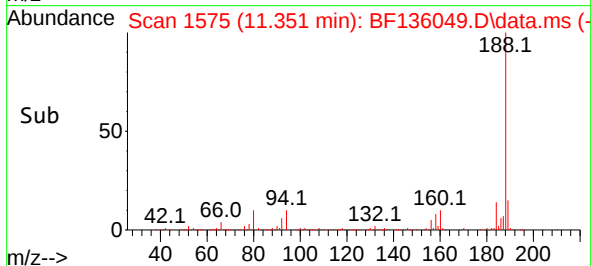
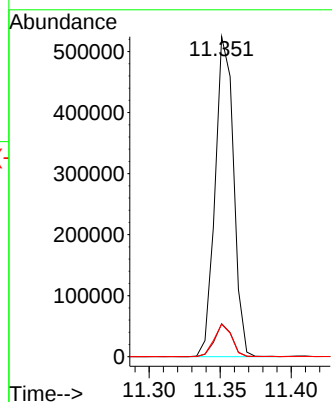
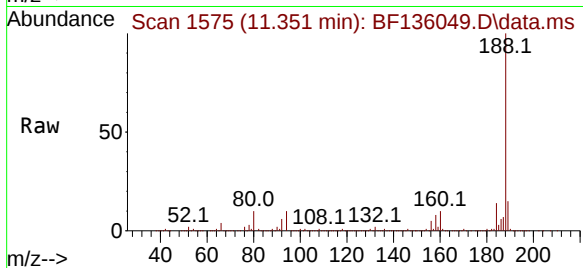
Tgt Ion:188 Resp: 473671

Ion Ratio Lower Upper

188 100

94 10.3 7.2 10.8

80 10.1 7.4 11.0



#65

4,6-Dinitro-2-methylphenol

Concen: 5.809 ng

RT: 10.639 min Scan# 1454

Delta R.T. 0.176 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

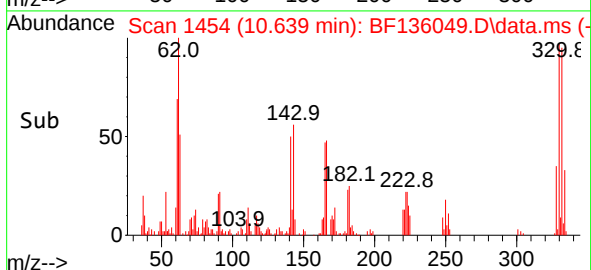
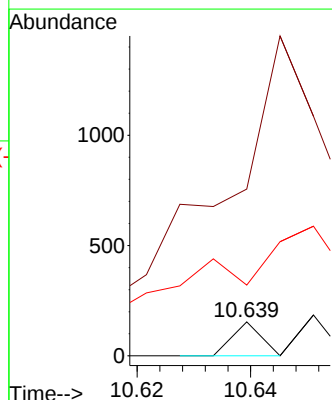
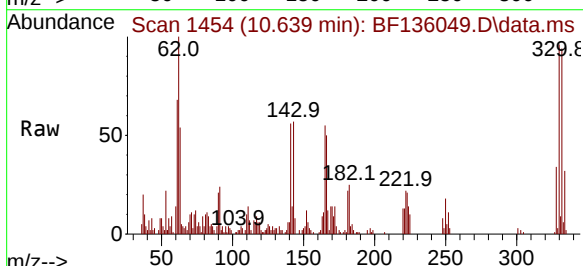
Tgt Ion:198 Resp: 54

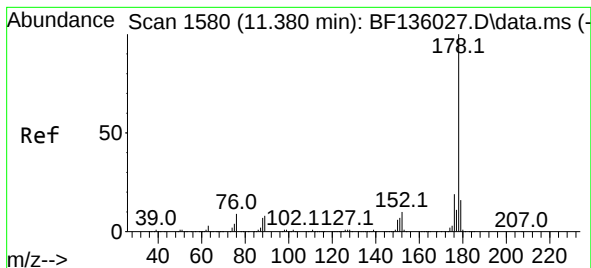
Ion Ratio Lower Upper

198 100

51 490.9 12.9 52.9#

105 208.4 16.0 56.0#





#71

Phenanthrene

Concen: 28.992 ng

RT: 11.380 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

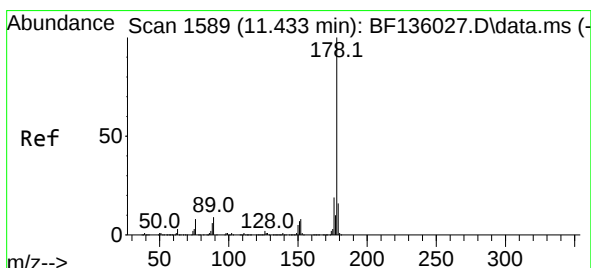
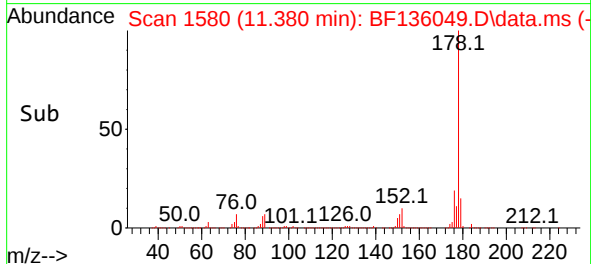
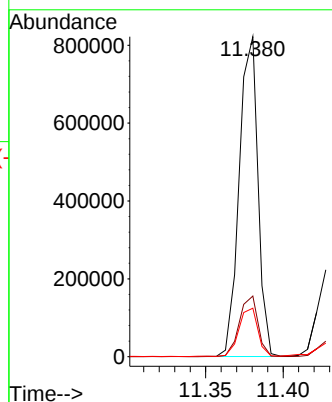
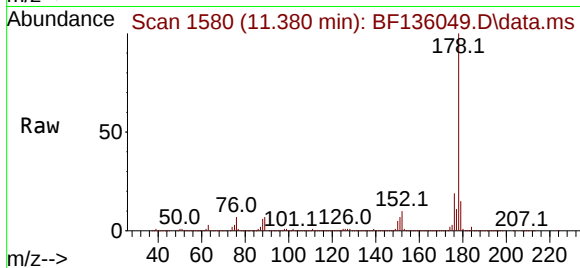
Tgt Ion:178 Resp: 691443

Ion Ratio Lower Upper

178 100

176 18.9 15.5 23.3

179 15.1 12.9 19.3



#72

Anthracene

Concen: 6.749 ng

RT: 11.427 min Scan# 1588

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

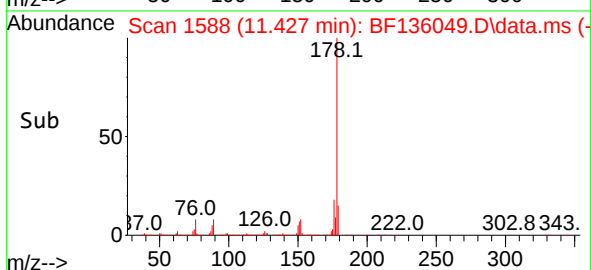
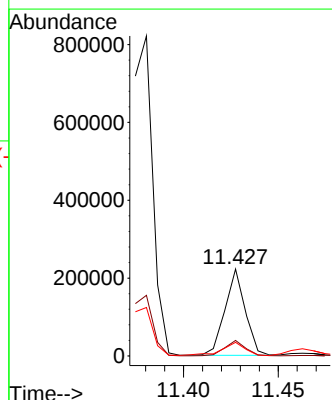
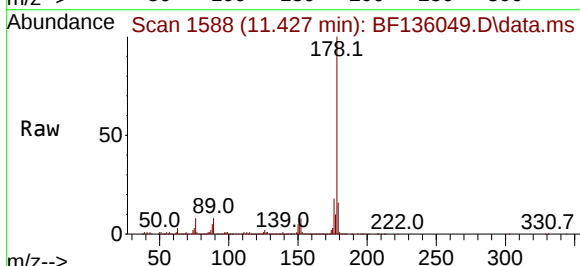
Tgt Ion:178 Resp: 164925

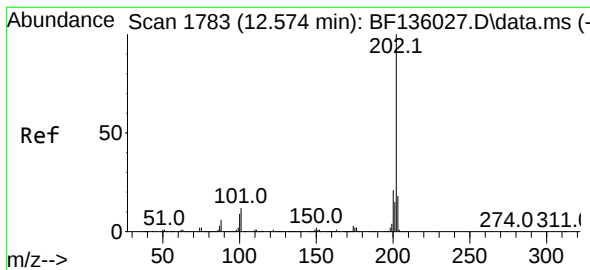
Ion Ratio Lower Upper

178 100

176 17.8 15.0 22.4

179 15.6 12.6 18.8





#75

Fluoranthene

Concen: 17.586 ng

RT: 12.574 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

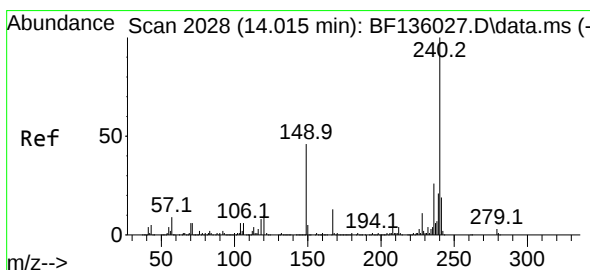
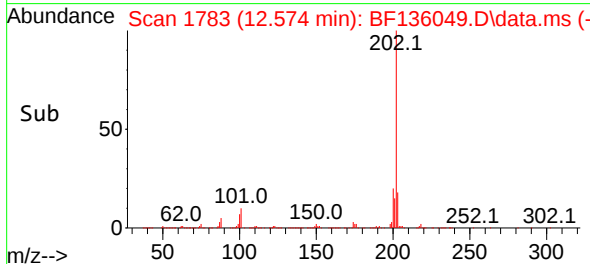
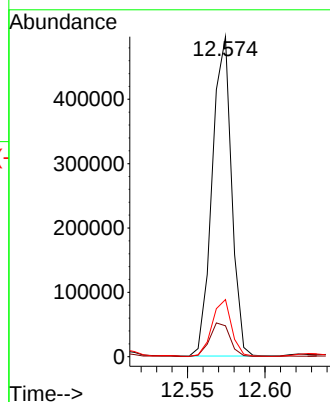
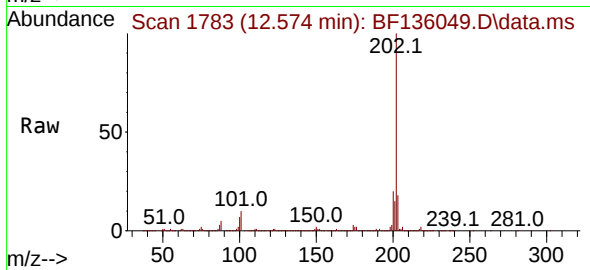
Tgt Ion:202 Resp: 430865

Ion Ratio Lower Upper

202 100

101 9.7 0.0 31.8

203 17.8 0.0 37.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

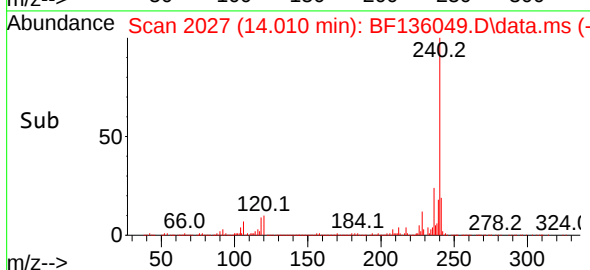
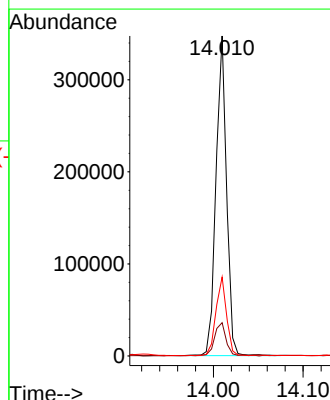
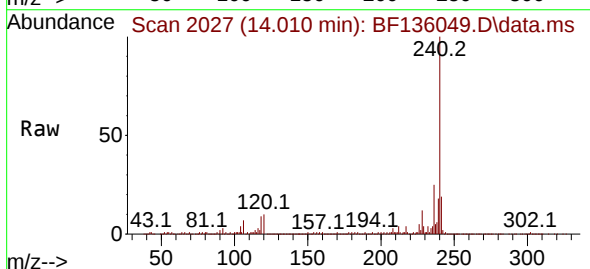
Tgt Ion:240 Resp: 284619

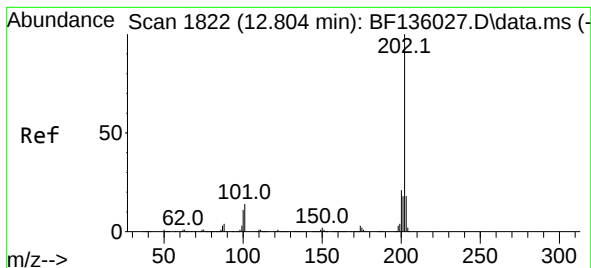
Ion Ratio Lower Upper

240 100

120 10.4 7.6 11.4

236 24.6 20.6 31.0





#78

Pyrene

Concen: 22.030 ng

RT: 12.804 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

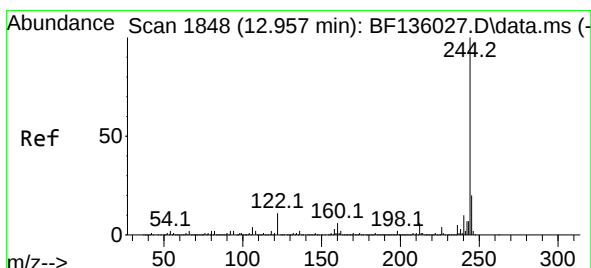
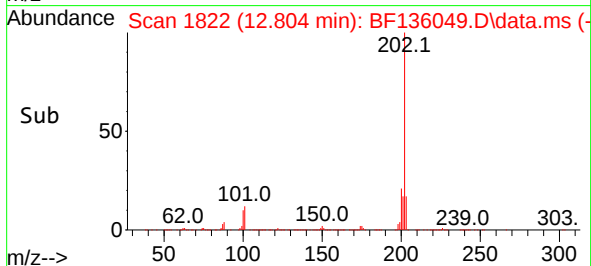
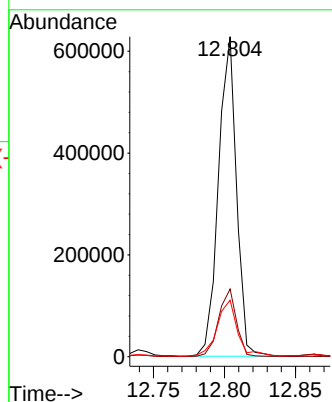
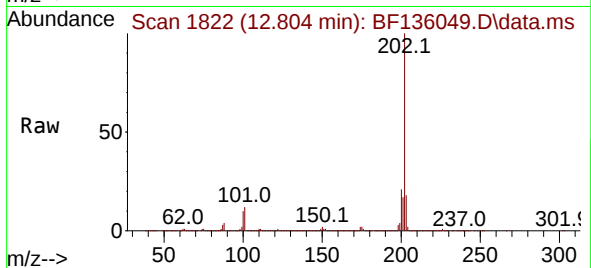
Tgt Ion:202 Resp: 552804

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.4 21.6



#79

Terphenyl-d14

Concen: 12.332 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

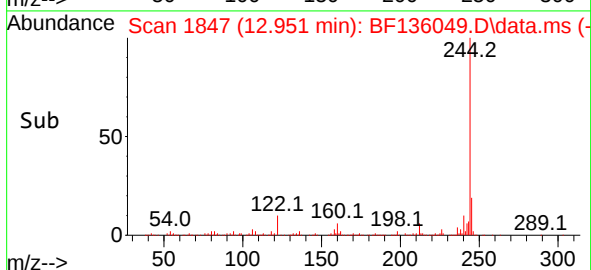
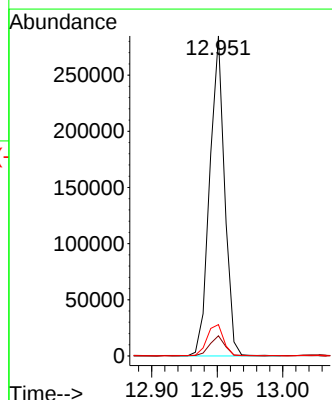
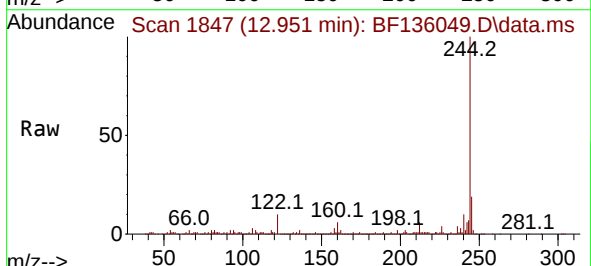
Tgt Ion:244 Resp: 225857

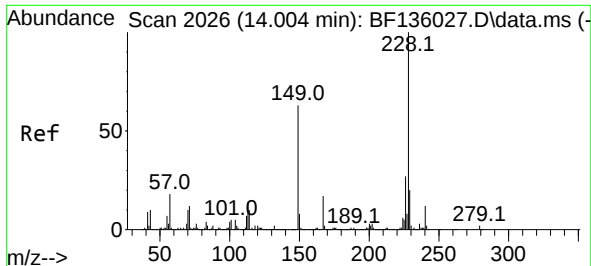
Ion Ratio Lower Upper

244 100

212 6.3 5.1 7.7

122 9.8 8.6 12.8

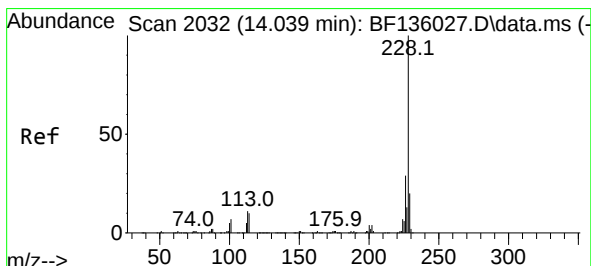
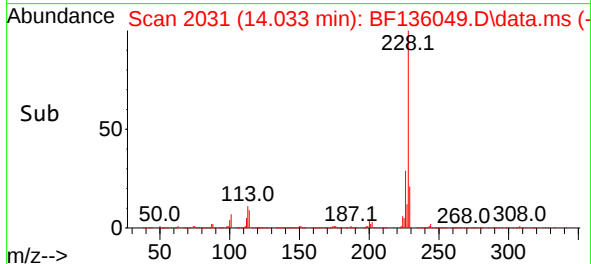
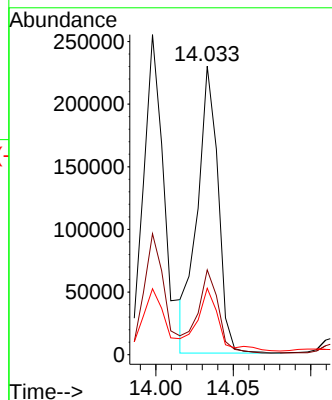
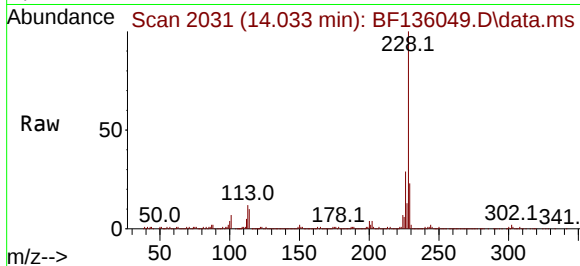




#81
Benzo(a)anthracene
Concen: 11.311 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.030 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

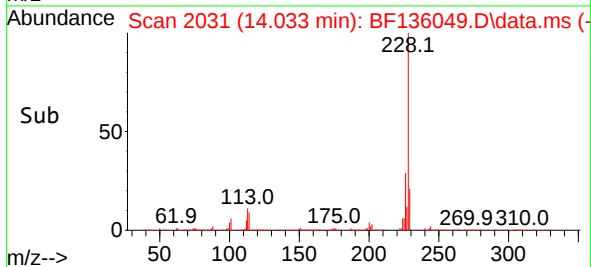
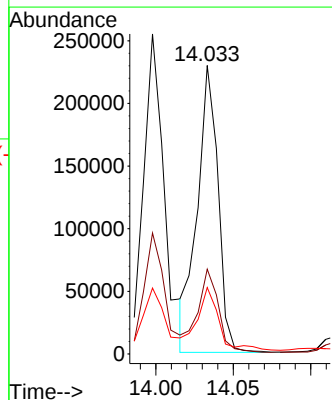
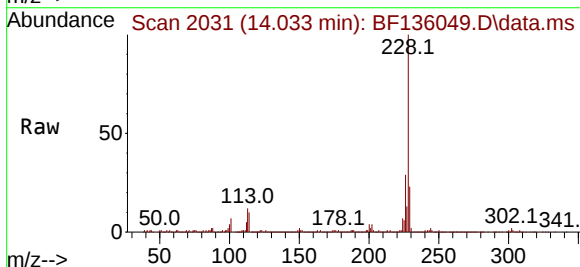
Instrument :
BNA_F
ClientSampleId :
SB-104-1(5-10)DL

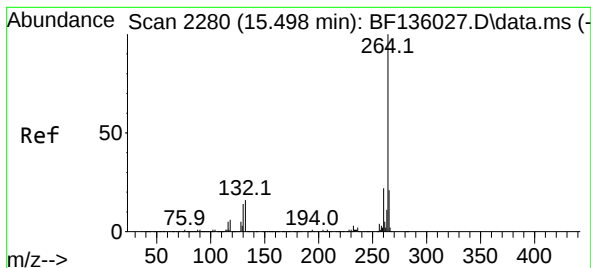
Tgt Ion:228 Resp: 213134
Ion Ratio Lower Upper
228 100
226 29.4 21.5 32.3
229 23.0 15.8 23.6



#83
Chrysene
Concen: 11.486 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF136049.D
Acq: 31 Oct 2023 14:02

Tgt Ion:228 Resp: 213134
Ion Ratio Lower Upper
228 100
226 29.4 23.5 35.3
229 23.0 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

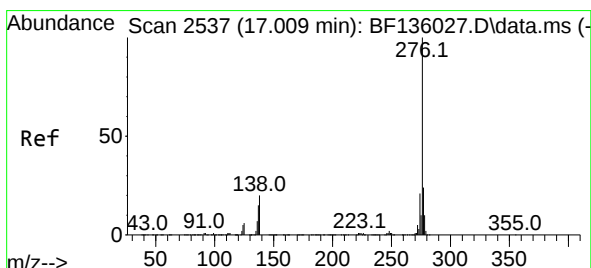
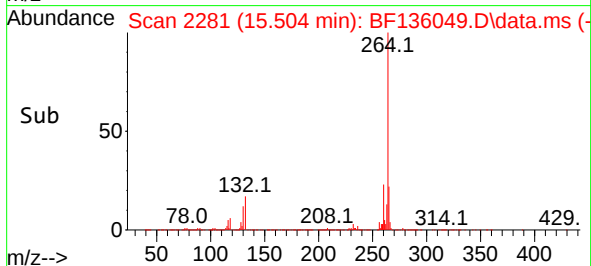
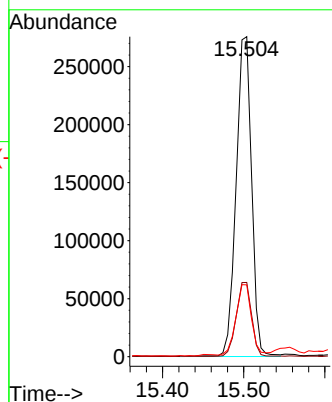
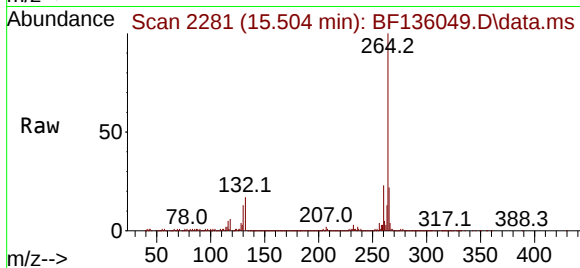
Tgt Ion:264 Resp: 363311

Ion Ratio Lower Upper

264 100

260 23.2 17.9 26.9

265 22.4 16.8 25.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.153 ng

RT: 17.004 min Scan# 2536

Delta R.T. -0.006 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

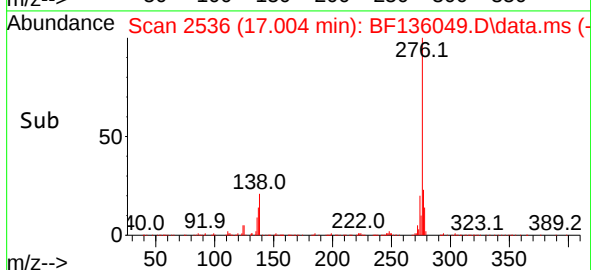
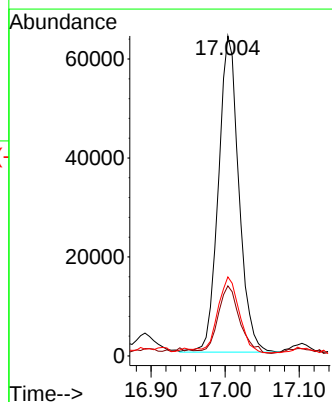
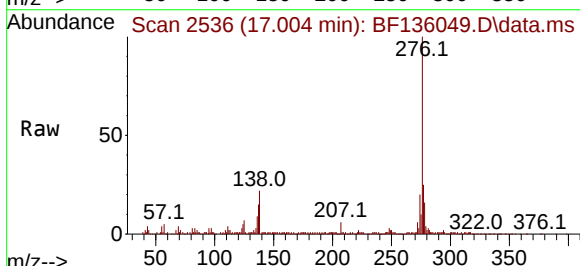
Tgt Ion:276 Resp: 122347

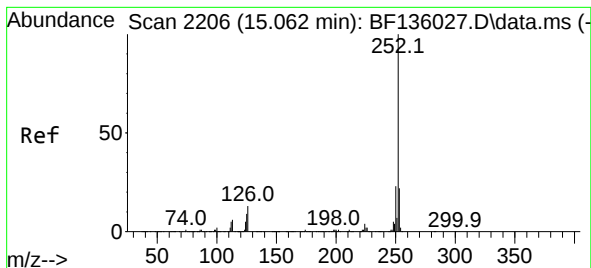
Ion Ratio Lower Upper

276 100

138 22.7 20.4 30.6

277 25.2 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 15.059 ng

RT: 15.063 min Scan# 2206

Delta R.T. 0.000 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

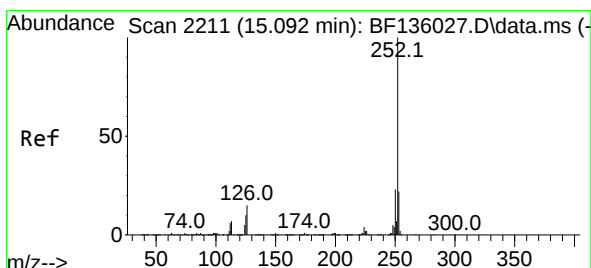
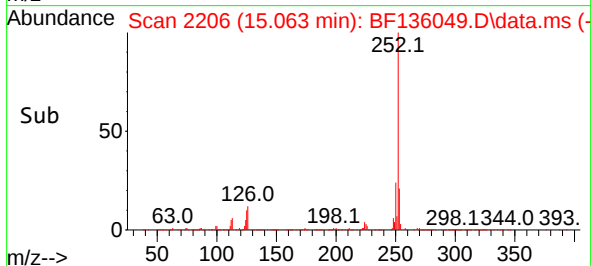
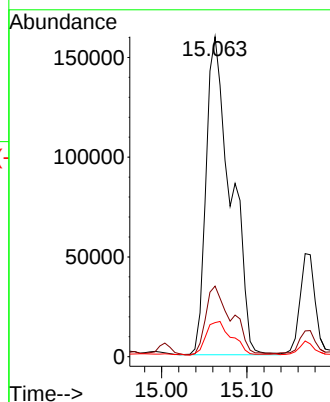
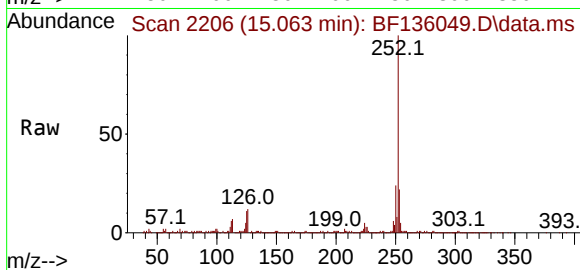
Tgt Ion:252 Resp: 323737

Ion Ratio Lower Upper

252 100

253 22.1 17.7 26.5

125 10.6 7.5 11.3



#89

Benzo(k)fluoranthene

Concen: 15.220 ng

RT: 15.063 min Scan# 2206

Delta R.T. -0.029 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

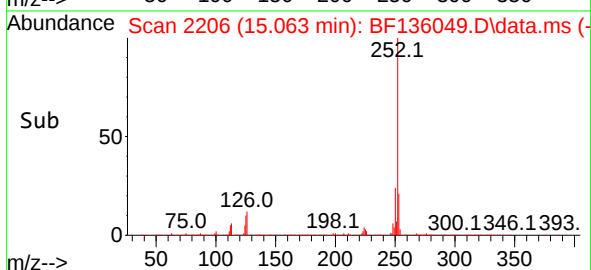
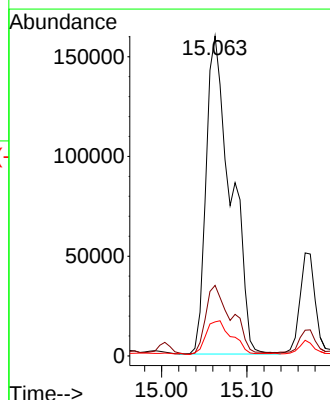
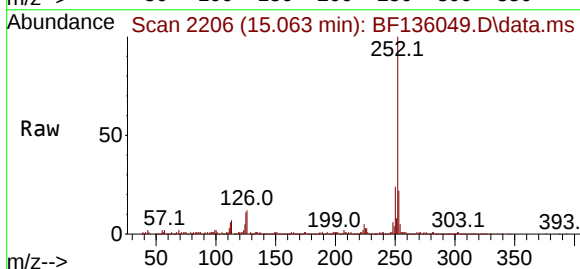
Tgt Ion:252 Resp: 323737

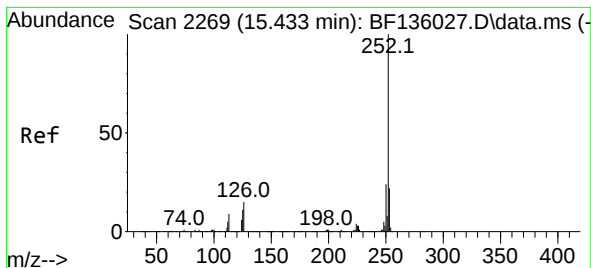
Ion Ratio Lower Upper

252 100

253 22.1 17.4 26.0

125 10.6 8.0 12.0





#90

Benzo(a)pyrene

Concen: 11.843 ng

RT: 15.433 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Instrument :

BNA_F

ClientSampleId :

SB-104-1(5-10)DL

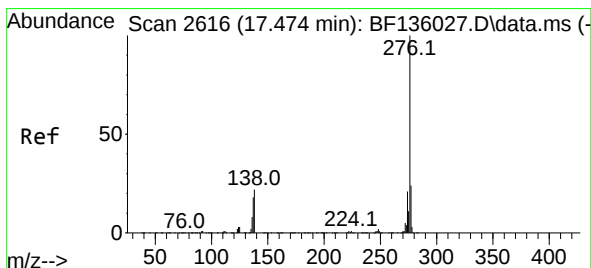
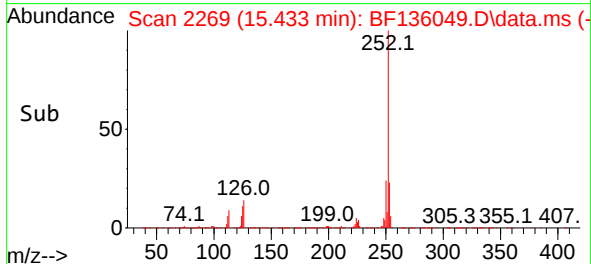
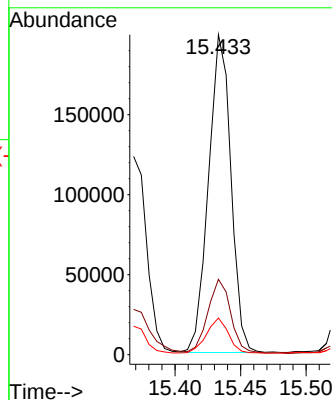
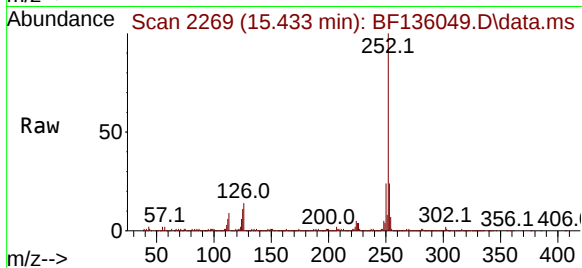
Tgt Ion:252 Resp: 236561

Ion Ratio Lower Upper

252 100

253 23.6 17.3 25.9

125 11.4 9.0 13.6



#92

Benzo(g,h,i)perylene

Concen: 8.153 ng

RT: 17.462 min Scan# 2614

Delta R.T. -0.012 min

Lab File: BF136049.D

Acq: 31 Oct 2023 14:02

Tgt Ion:276 Resp: 123906

Ion Ratio Lower Upper

276 100

277 23.6 19.0 28.4

138 21.8 17.4 26.2

