

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110123\
 Data File : BF136079.D
 Acq On : 01 Nov 2023 16:27
 Operator : CG\JU
 Sample : 04805-05DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 M-2(0-5)DL

Quant Time: Nov 01 22:40:55 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

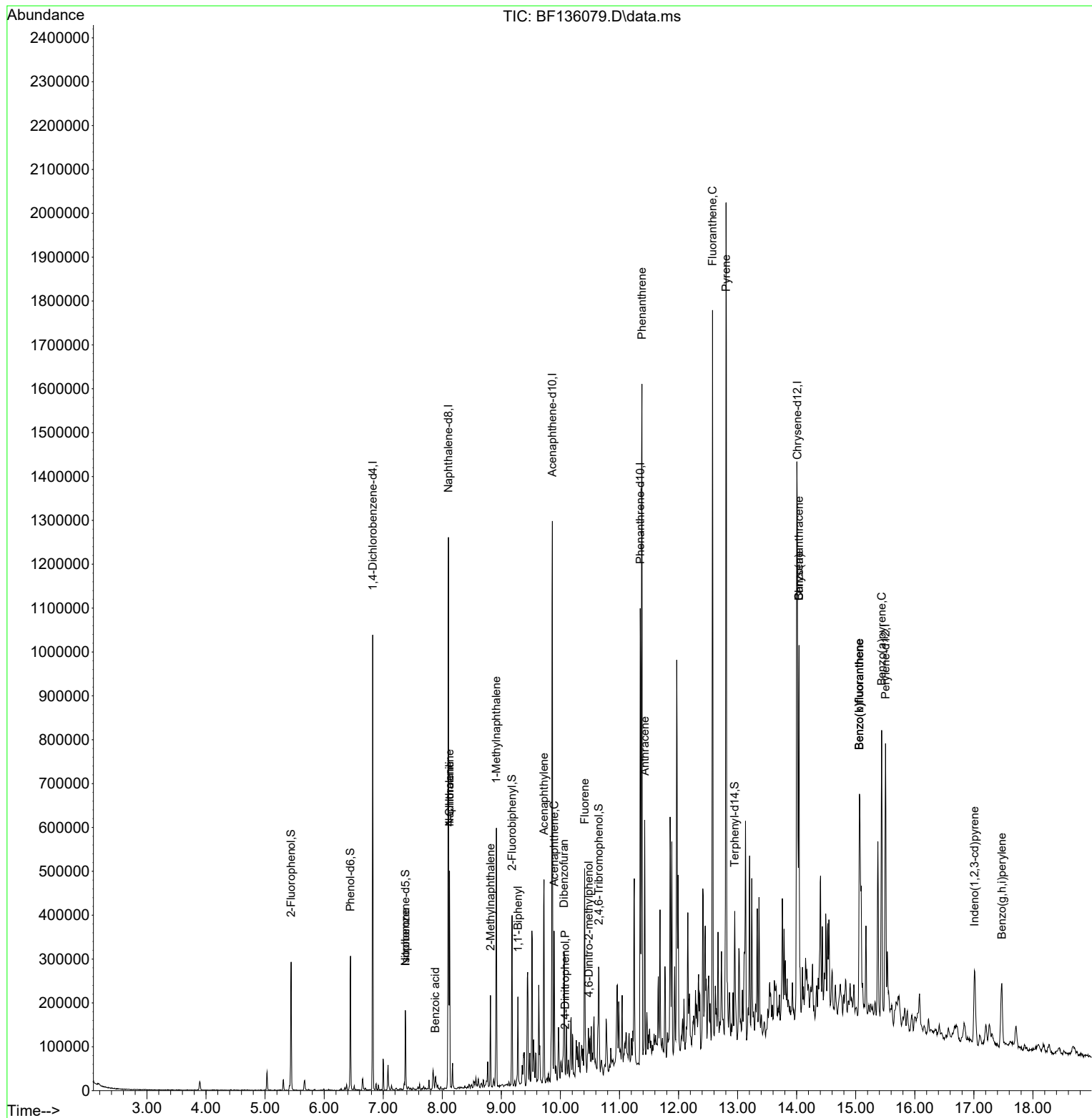
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	132287	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	510752	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	250376	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	384376	20.000	ng	0.00
76) Chrysene-d12	14.010	240	266321	20.000	ng	# 0.00
86) Perylene-d12	15.504	264	281970	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	73466	8.727	ng	-0.01
7) Phenol-d6	6.445	99	92515	8.820	ng	-0.01
23) Nitrobenzene-d5	7.375	82	49115	5.797	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	18979	7.102	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	105290	6.704	ng	0.00
79) Terphenyl-d14	12.951	244	84584	4.936	ng	0.00
Target Compounds						
						Qvalue
25) Isophorone	7.375	82	49127	3.071	ng	# 64
31) Naphthalene	8.122	128	176111	7.150	ng	100
32) Benzoic acid	7.881	122	133	5.134	ng	# 1
33) 4-Chloroaniline	8.122	127	23052	2.137	ng	# 34
37) 2-Methylnaphthalene	8.816	142	44500	2.695	ng	99
38) 1-Methylnaphthalene	8.916	142	130888	8.517	ng	97
46) 1,1'-Biphenyl	9.281	154	53193	2.787	ng	99
49) Acenaphthylene	9.722	152	143996	6.560	ng	99
52) Acenaphthene	9.892	154	61585	4.413	ng	98
54) 2,4-Dinitrophenol	10.081	184	64	8.007	ng	# 1
55) Dibenzofuran	10.063	168	58806	2.890	ng	# 90
58) Fluorene	10.410	166	115778	7.600	ng	99
65) 4,6-Dinitro-2-methylph...	10.480	198	63	5.817	ng	# 1
71) Phenanthrene	11.380	178	563601	29.121	ng	99
72) Anthracene	11.428	178	197608	9.964	ng	99
75) Fluoranthene	12.574	202	595727	29.963	ng	99
78) Pyrene	12.804	202	783306	33.360	ng	100
81) Benzo(a)anthracene	14.039	228	333232	18.900	ng	94
83) Chrysene	14.039	228	333232	19.191	ng	97
87) Indeno(1,2,3-cd)pyrene	17.009	276	119024	6.459	ng	96
88) Benzo(b)fluoranthene	15.063	252	443788	26.599	ng	99
89) Benzo(k)fluoranthene	15.063	252	443788	26.882	ng	99
90) Benzo(a)pyrene	15.439	252	308170	19.879	ng	99
92) Benzo(g,h,i)perylene	17.474	276	118039	9.349	ng	100

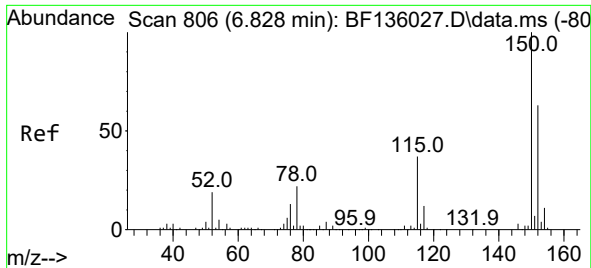
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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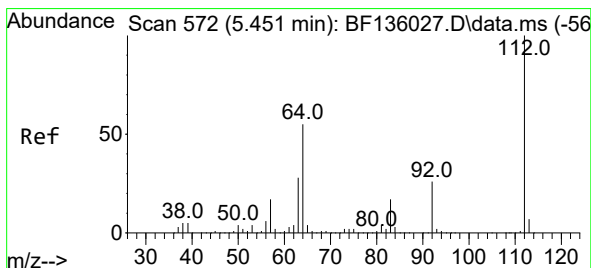
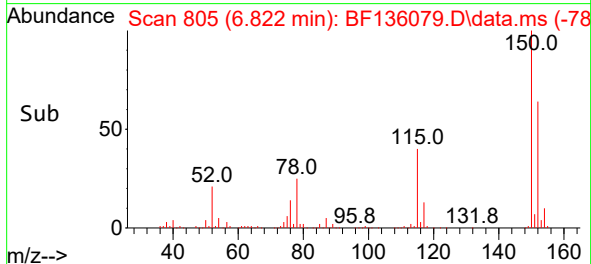
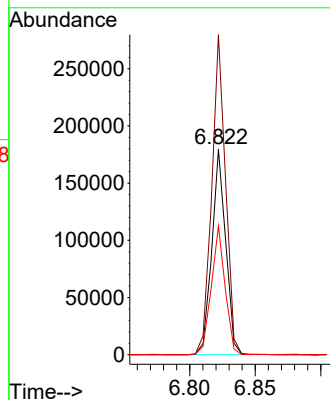
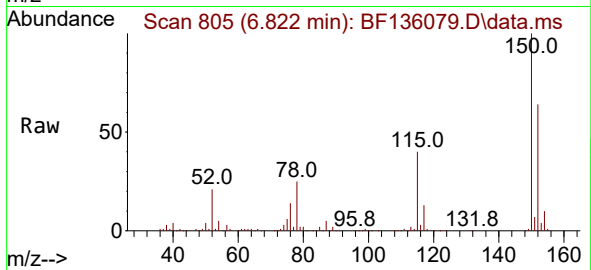




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

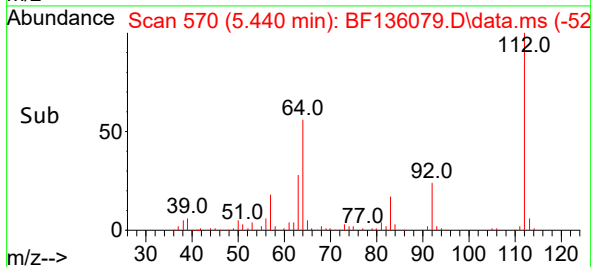
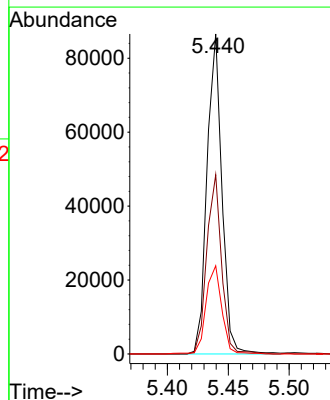
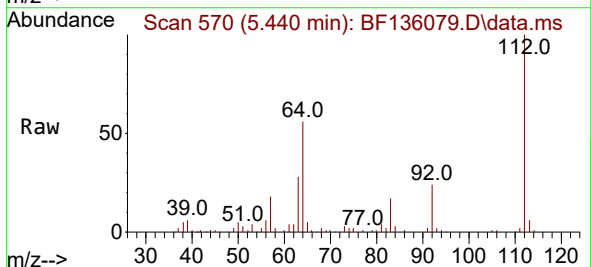
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

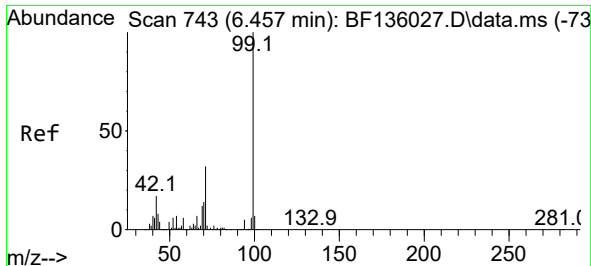
Tgt Ion:152 Resp: 132287
Ion Ratio Lower Upper
152 100
150 155.8 126.4 189.6
115 62.7 47.0 70.4



#5
2-Fluorophenol
Concen: 8.727 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:112 Resp: 73466
Ion Ratio Lower Upper
112 100
64 56.0 43.9 65.9
63 27.5 22.4 33.6

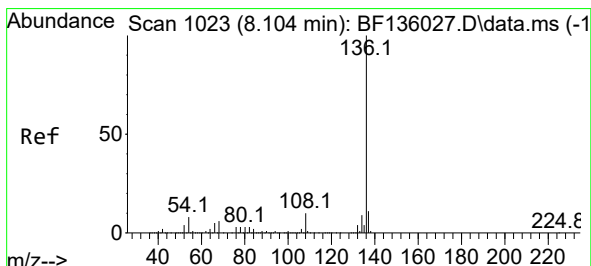
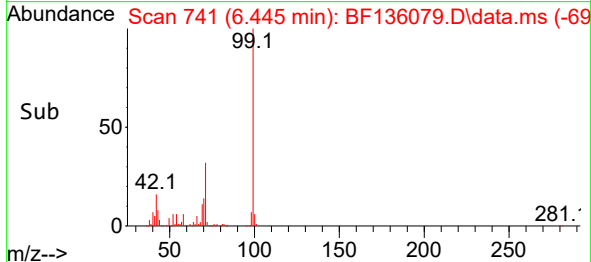
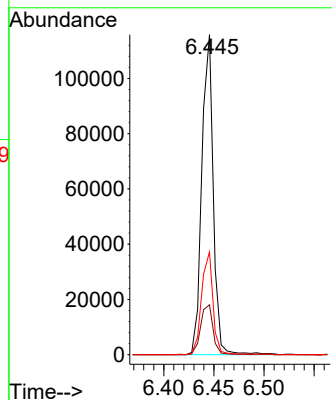
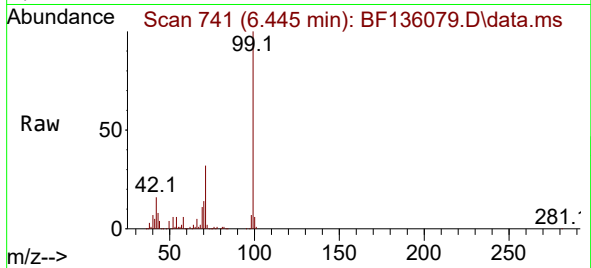




#7
Phenol-d6
Concen: 8.820 ng
RT: 6.445 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

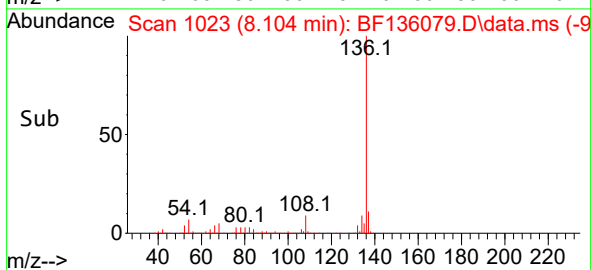
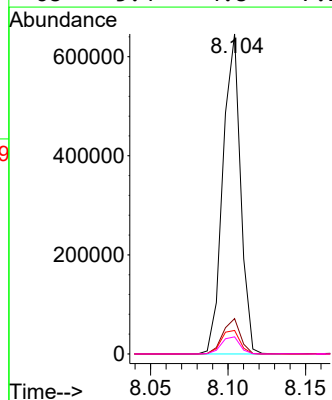
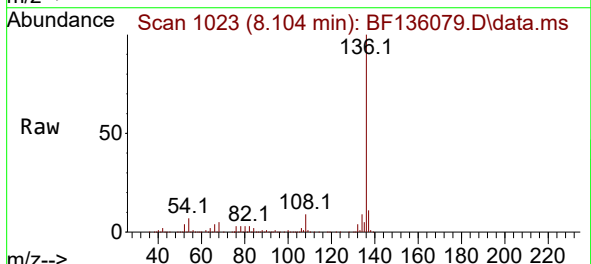
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

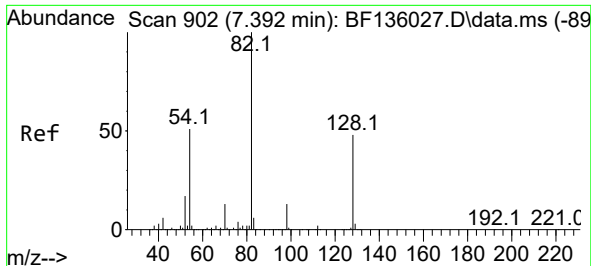
Tgt Ion: 99 Resp: 92515
Ion Ratio Lower Upper
99 100
42 15.6 13.7 20.5
71 32.1 25.9 38.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion: 136 Resp: 510752
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 7.4 6.6 9.8
68 5.4 4.8 7.2

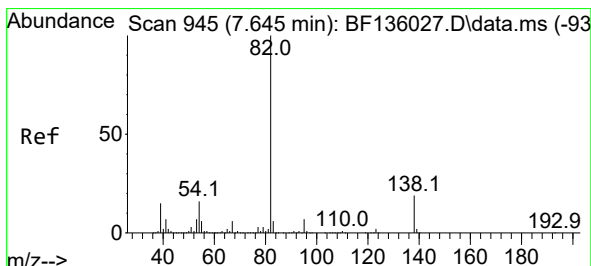
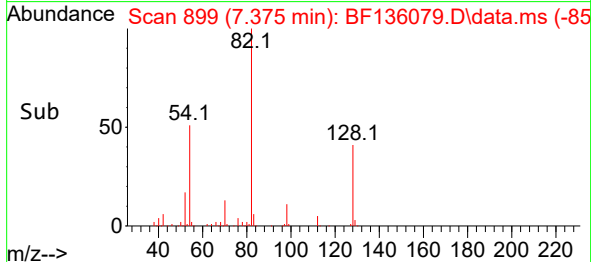
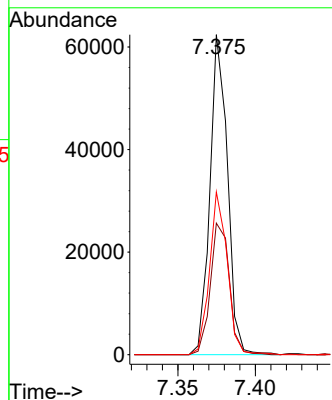
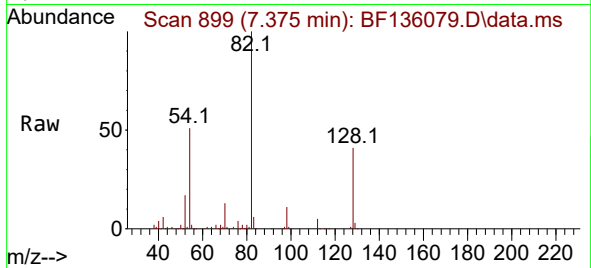




#23
Nitrobenzene-d5
Concen: 5.797 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.017 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

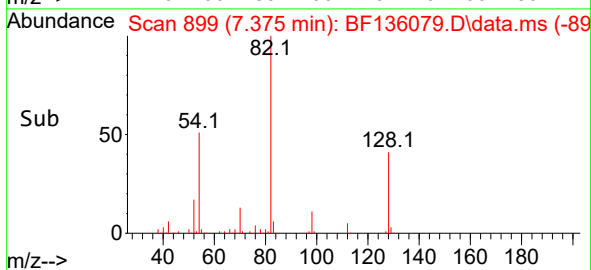
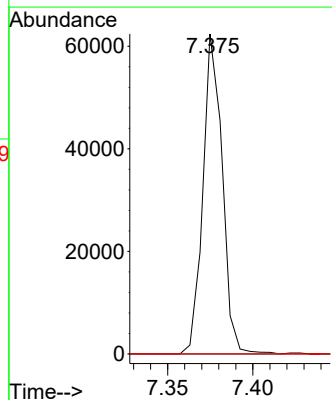
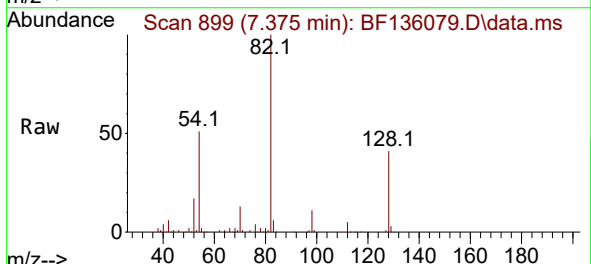
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

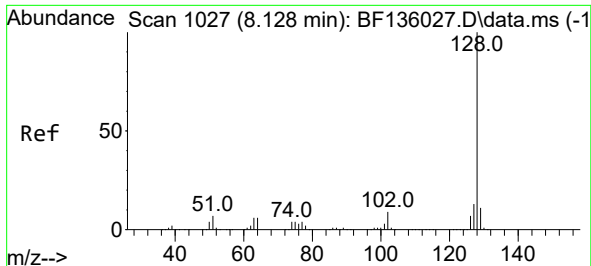
Tgt Ion: 82 Resp: 49115
Ion Ratio Lower Upper
82 100
128 41.1 38.6 57.8
54 50.9 40.8 61.2



#25
Isophorone
Concen: 3.071 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.270 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion: 82 Resp: 49127
Ion Ratio Lower Upper
82 100
95 0.0 5.9 8.9#
138 0.0 15.3 22.9#

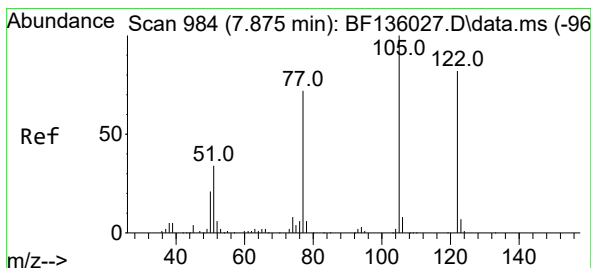
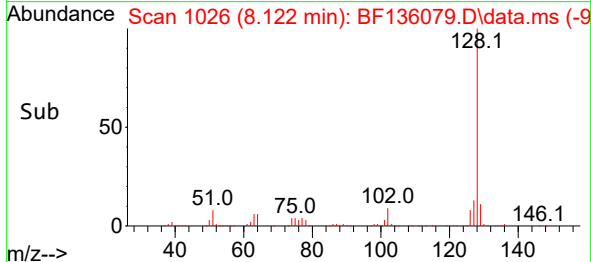
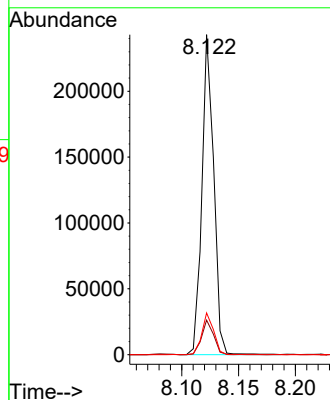
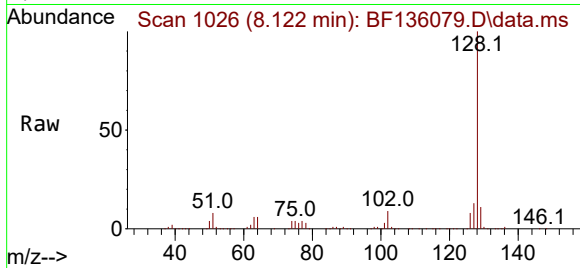




#31
Naphthalene
Concen: 7.150 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

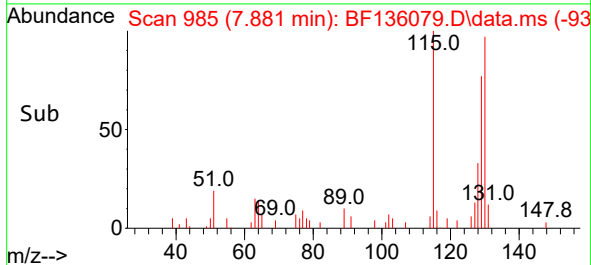
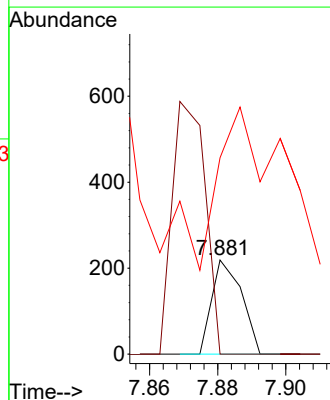
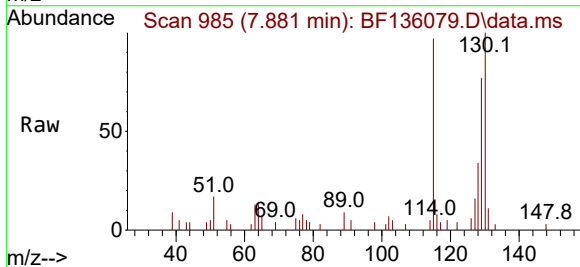
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

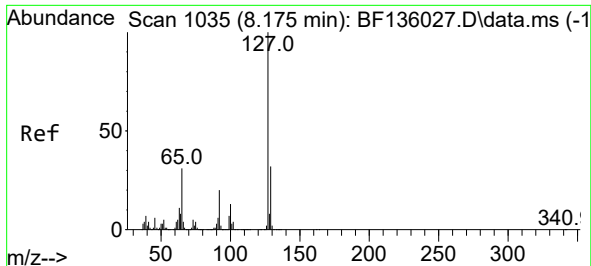
Tgt Ion:128 Resp: 176111
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 13.1 10.5 15.7



#32
Benzoic acid
Concen: 5.134 ng
RT: 7.881 min Scan# 985
Delta R.T. 0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:122 Resp: 133
Ion Ratio Lower Upper
122 100
105 0.0 99.5 139.5#
77 208.7 66.8 106.8#

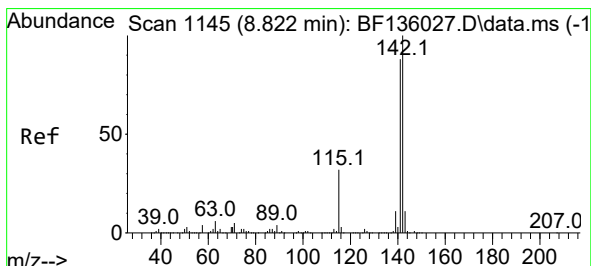
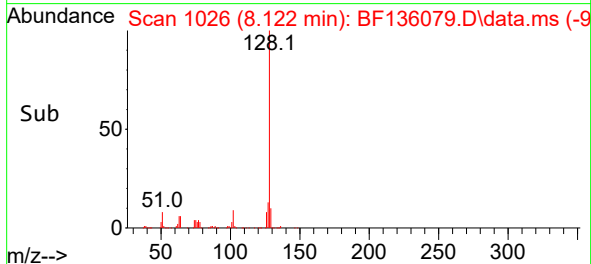
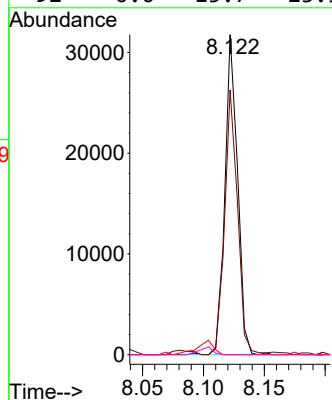
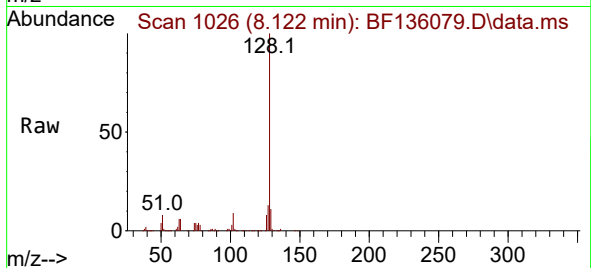




#33
4-Chloroaniline
Concen: 2.137 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.053 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

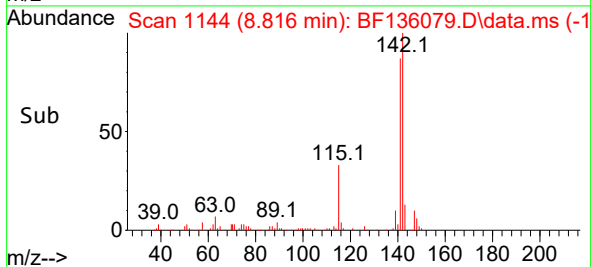
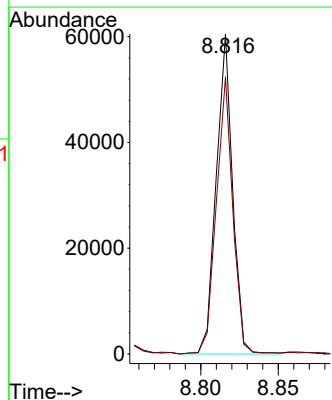
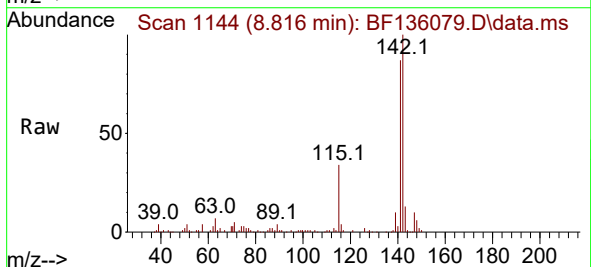
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M-2(0-5)DL

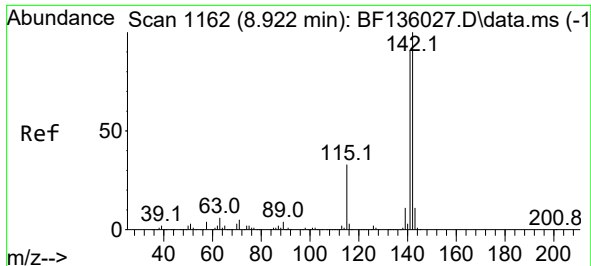
Tgt Ion:127	Resp:	23052
Ion Ratio	Lower	Upper
127	100	
129	82.7	25.9 38.9#
65	0.0	24.6 37.0#
92	0.0	15.7 23.5#



#37
2-Methylnaphthalene
Concen: 2.695 ng
RT: 8.816 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:142	Resp:	44500
Ion Ratio	Lower	Upper
142	100	
141	86.7	70.4 105.6





#38

1-Methylnaphthalene

Concen: 8.517 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

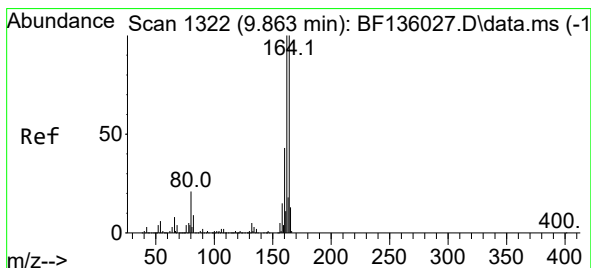
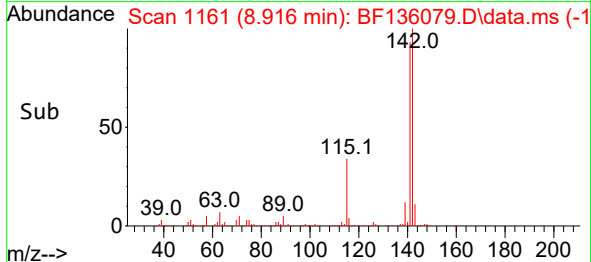
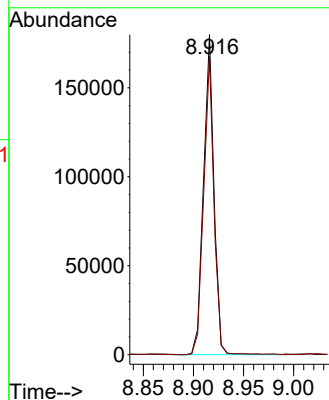
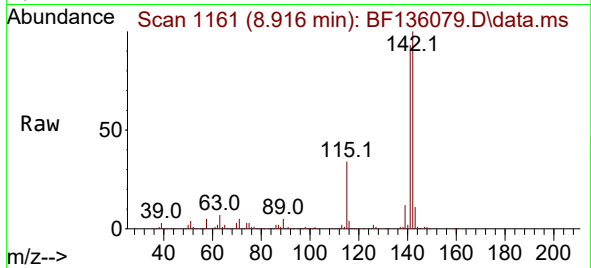
M-2(0-5)DL

Tgt Ion:142 Resp: 130888

Ion Ratio Lower Upper

142 100

141 93.2 72.6 109.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.863 min Scan# 1322

Delta R.T. -0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

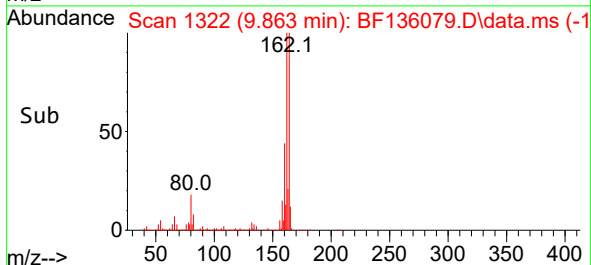
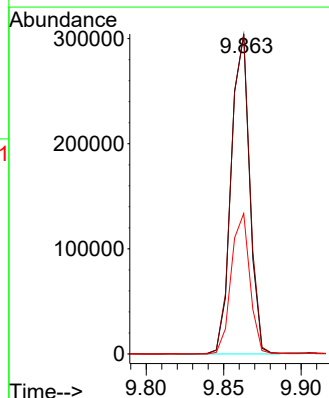
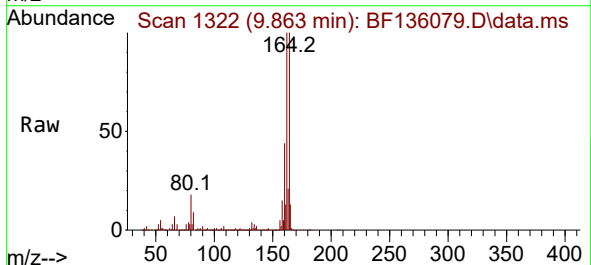
Tgt Ion:164 Resp: 250376

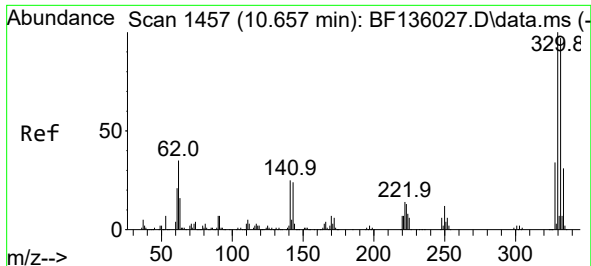
Ion Ratio Lower Upper

164 100

162 100.4 80.1 120.1

160 44.1 34.8 52.2





#42

2,4,6-Tribromophenol

Concen: 7.102 ng

RT: 10.651 min Scan# 1456

Delta R.T. -0.006 min

Lab File: BF136079.D

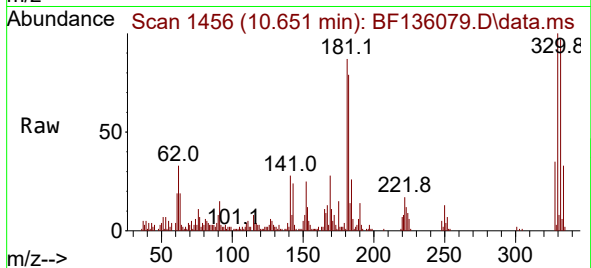
Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL



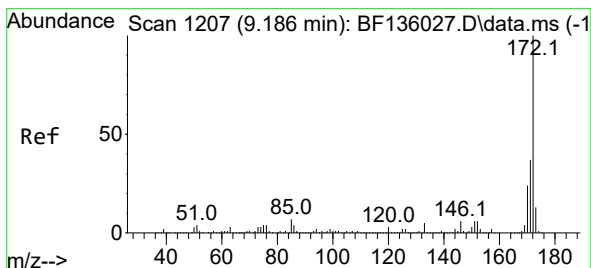
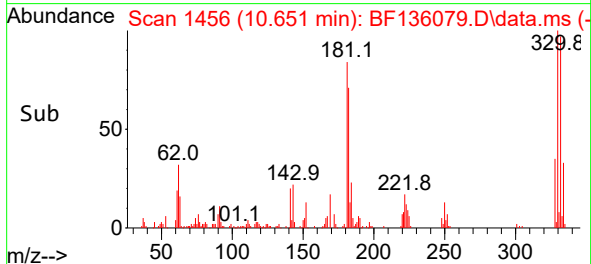
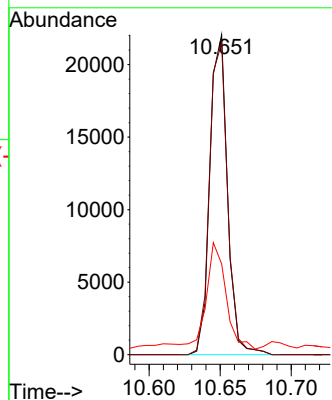
Tgt Ion:330 Resp: 18979

Ion Ratio Lower Upper

330 100

332 100.8 76.9 115.3

141 39.8 23.2 34.8#



#45

2-Fluorobiphenyl

Concen: 6.704 ng

RT: 9.181 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

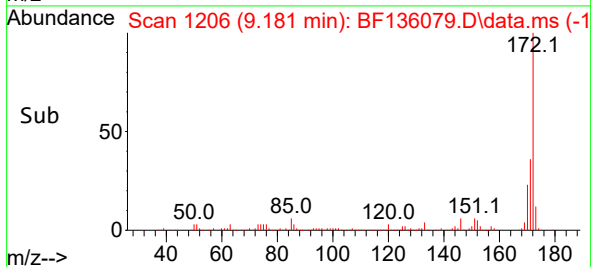
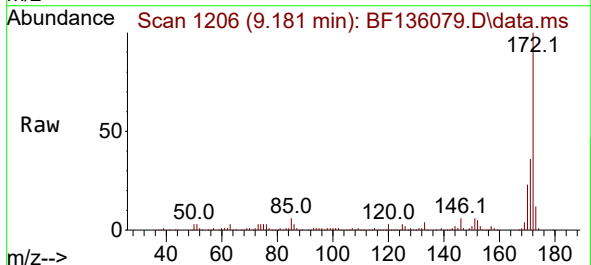
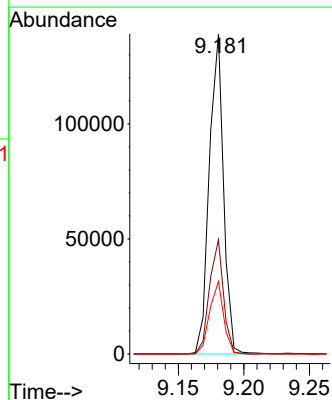
Tgt Ion:172 Resp: 105290

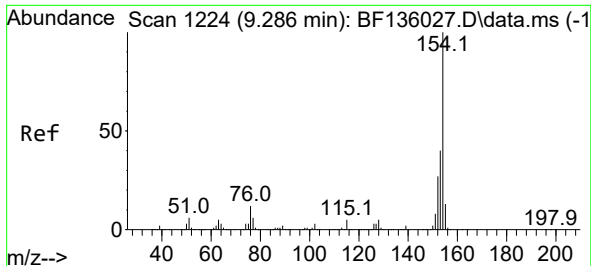
Ion Ratio Lower Upper

172 100

171 35.7 29.4 44.0

170 22.7 19.3 28.9

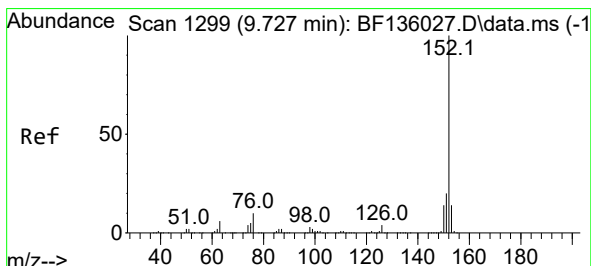
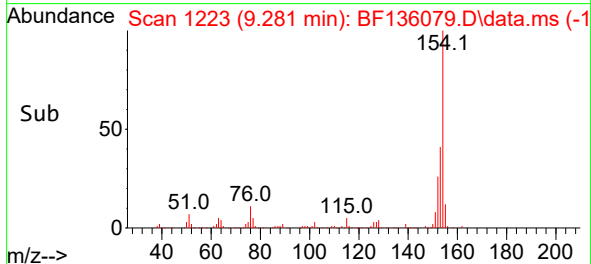
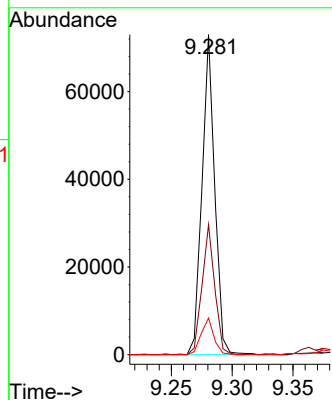
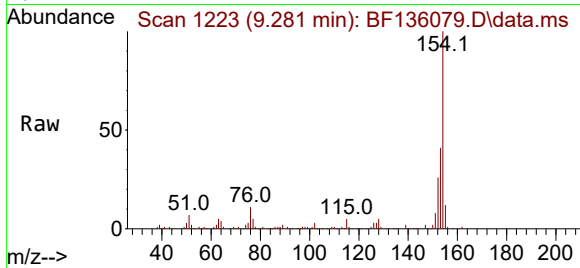




#46
1,1'-Biphenyl
Concen: 2.787 ng
RT: 9.281 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

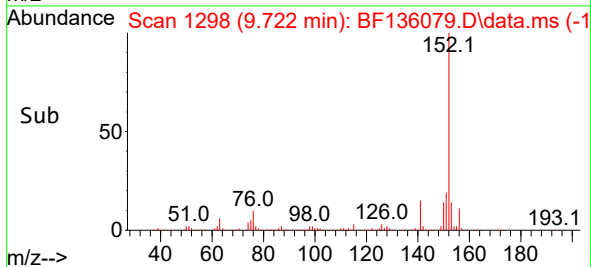
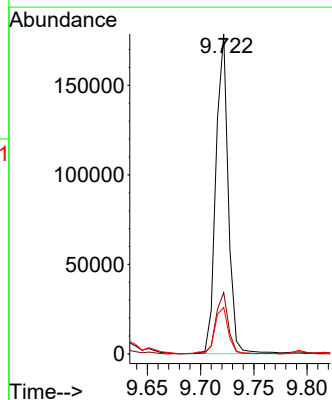
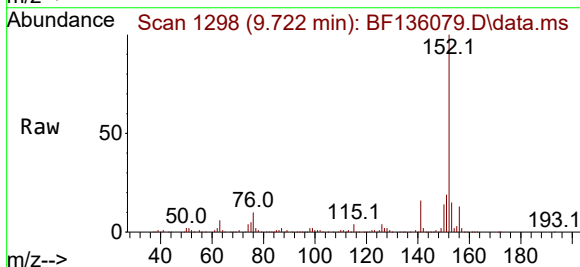
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

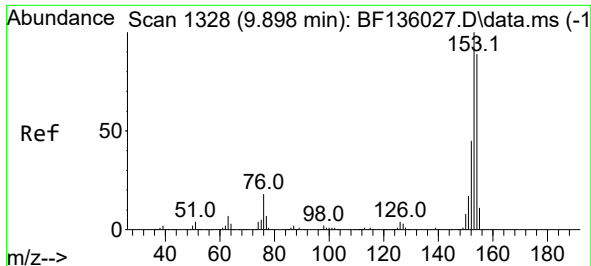
Tgt Ion:154 Resp: 53193
Ion Ratio Lower Upper
154 100
153 40.7 20.1 60.1
76 11.5 0.0 32.5



#49
Acenaphthylene
Concen: 6.560 ng
RT: 9.722 min Scan# 1298
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:152 Resp: 143996
Ion Ratio Lower Upper
152 100
151 19.2 16.1 24.1
153 14.5 11.4 17.2

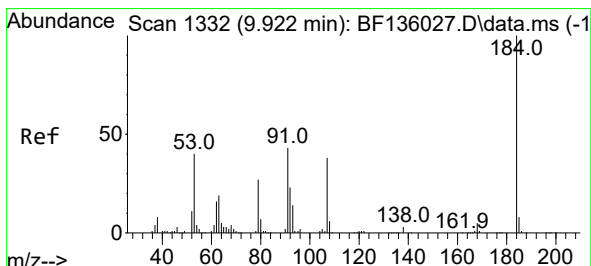
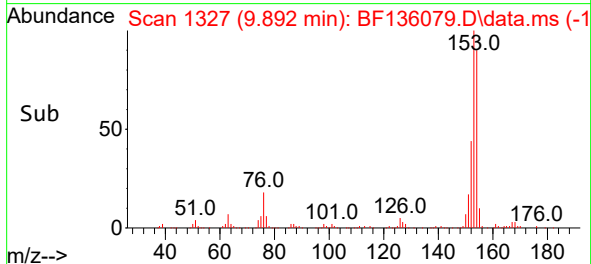
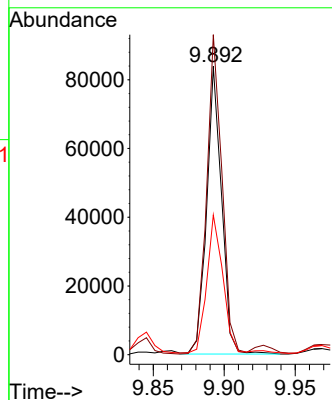
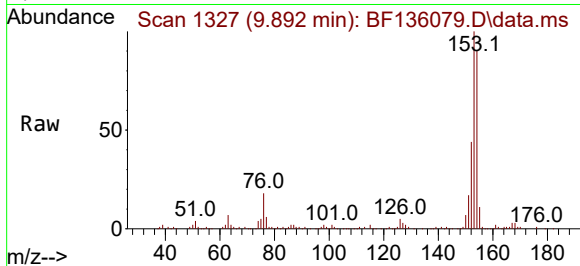




#52
Acenaphthene
Concen: 4.413 ng
RT: 9.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

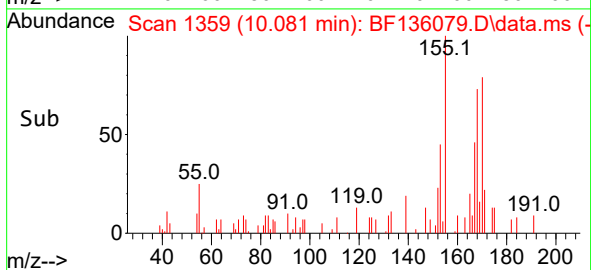
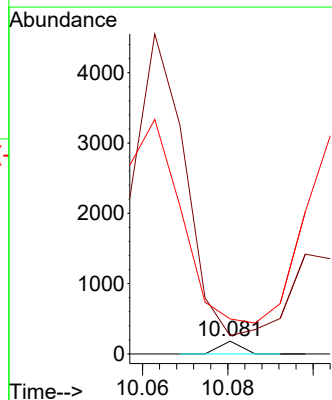
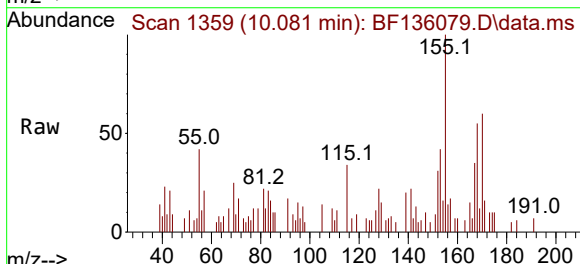
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

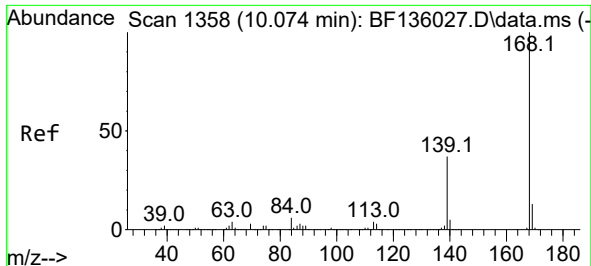
Tgt Ion:154 Resp: 61585
Ion Ratio Lower Upper
154 100
153 111.0 89.9 134.9
152 48.5 40.2 60.2



#54
2,4-Dinitrophenol
Concen: 8.007 ng
RT: 10.081 min Scan# 1359
Delta R.T. 0.159 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:184 Resp: 64
Ion Ratio Lower Upper
184 100
63 142.3 43.7 65.5#
154 274.2 51.2 76.8#

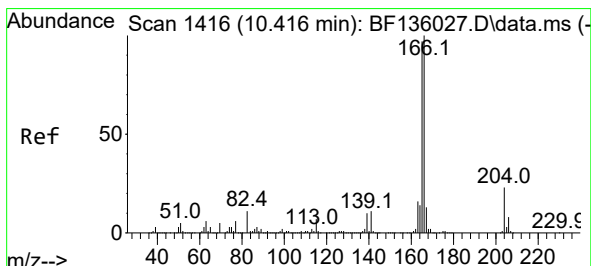
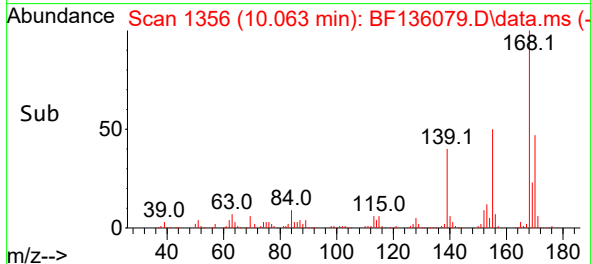
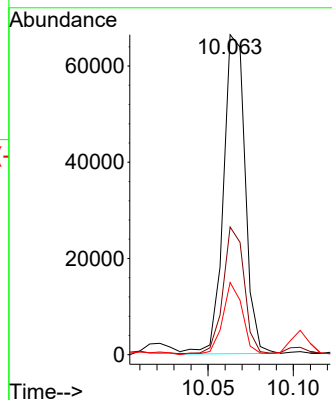
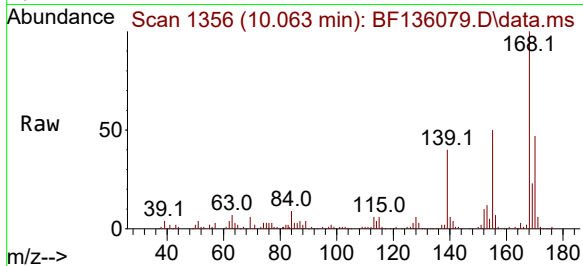




#55
Dibenzofuran
Concen: 2.890 ng
RT: 10.063 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

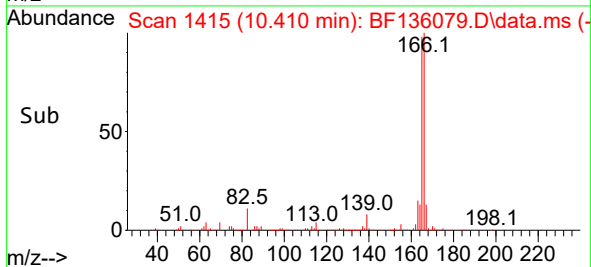
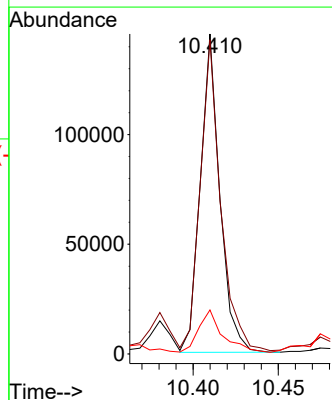
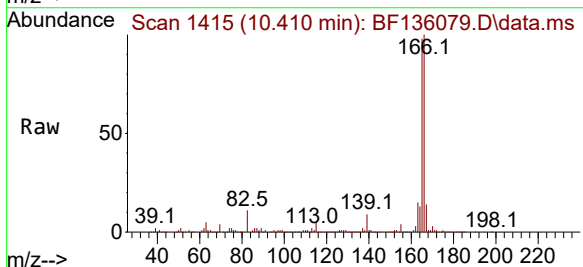
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

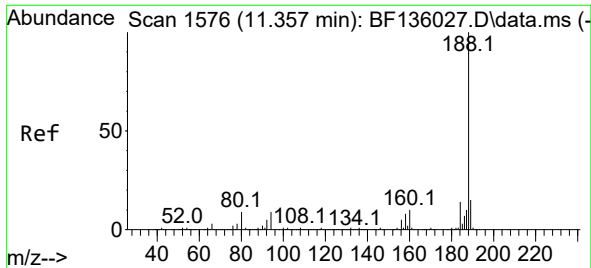
Tgt Ion:168 Resp: 58806
Ion Ratio Lower Upper
168 100
139 39.9 29.4 44.0
169 22.5 10.5 15.7#



#58
Fluorene
Concen: 7.600 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:166 Resp: 115778
Ion Ratio Lower Upper
166 100
165 98.2 77.7 116.5
167 13.8 10.6 16.0

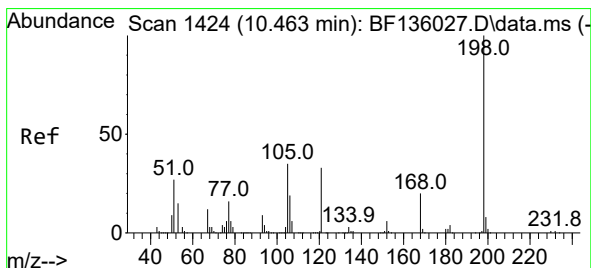
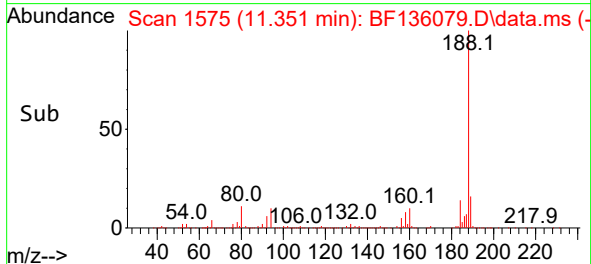
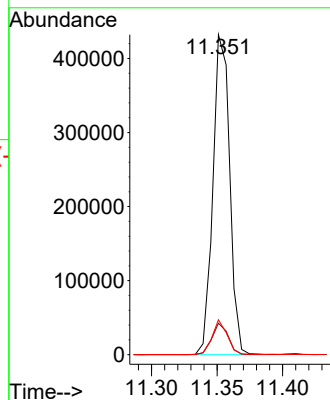
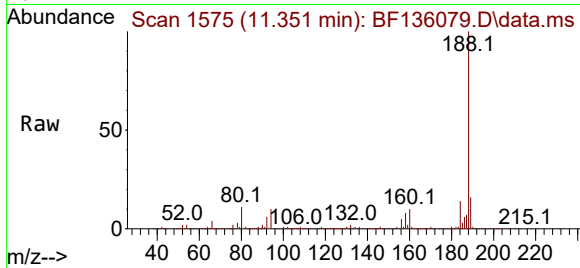




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

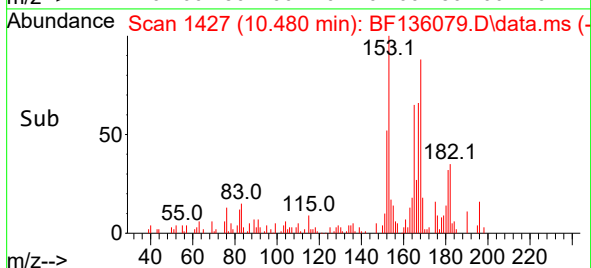
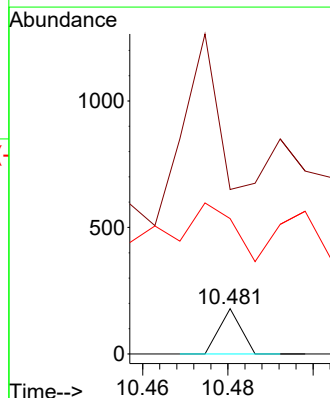
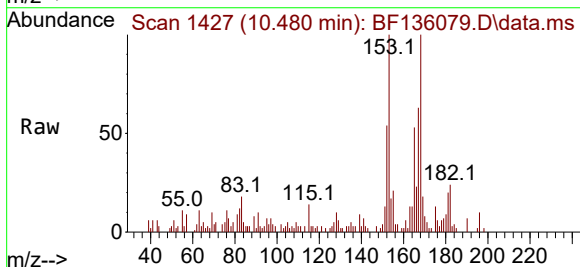
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

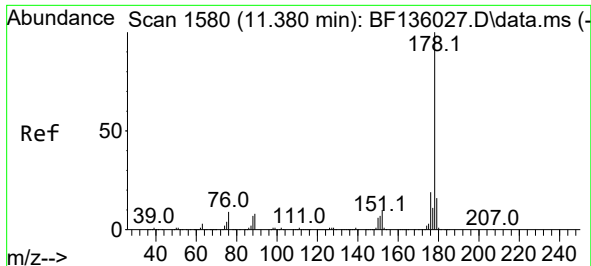
Tgt Ion:188 Resp: 384376
Ion Ratio Lower Upper
188 100
94 9.9 7.2 10.8
80 10.9 7.4 11.0



#65
4,6-Dinitro-2-methylphenol
Concen: 5.817 ng
RT: 10.480 min Scan# 1427
Delta R.T. 0.018 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:198 Resp: 63
Ion Ratio Lower Upper
198 100
51 363.1 12.9 52.9#
105 298.9 16.0 56.0#

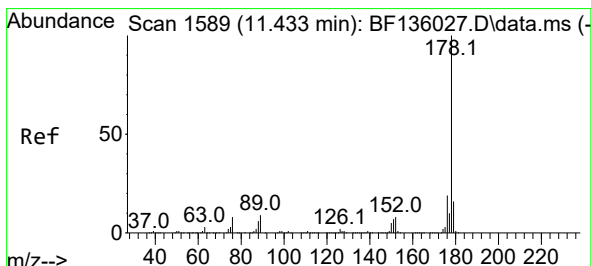
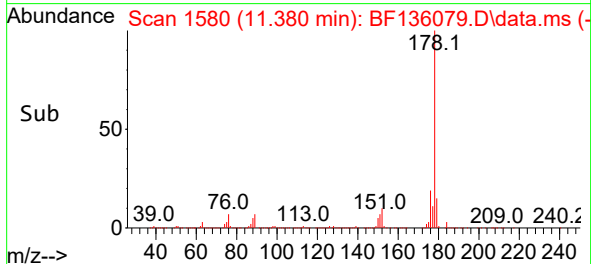
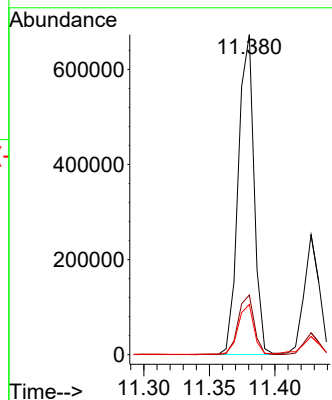
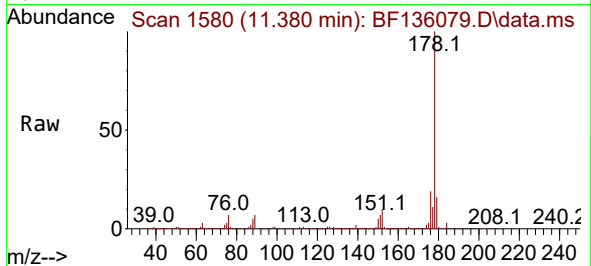




#71
Phenanthrene
Concen: 29.121 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

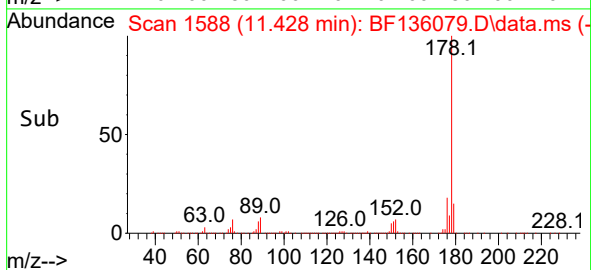
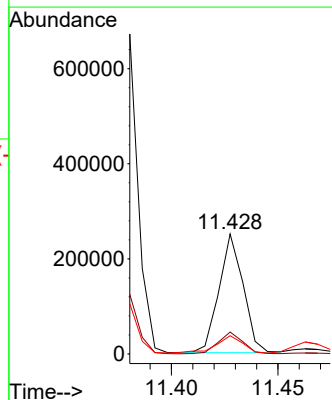
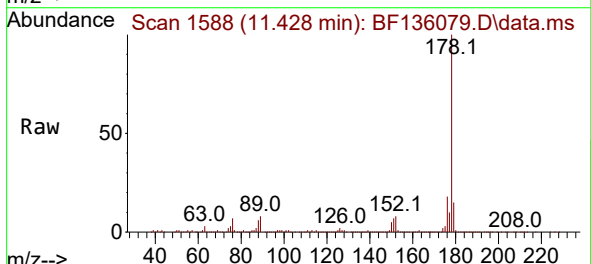
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

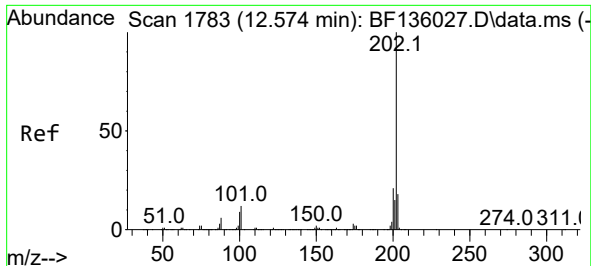
Tgt Ion:178 Resp: 563601
Ion Ratio Lower Upper
178 100
176 18.7 15.5 23.3
179 15.7 12.9 19.3



#72
Anthracene
Concen: 9.964 ng
RT: 11.428 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:178 Resp: 197608
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.4
179 15.2 12.6 18.8

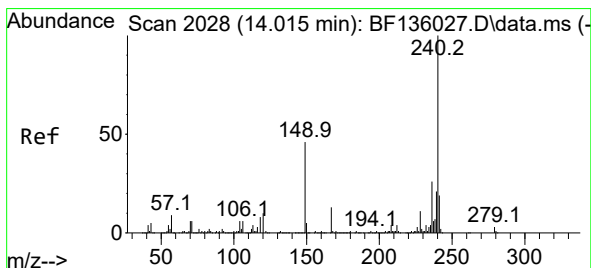
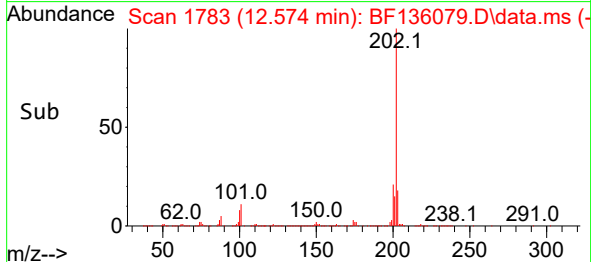
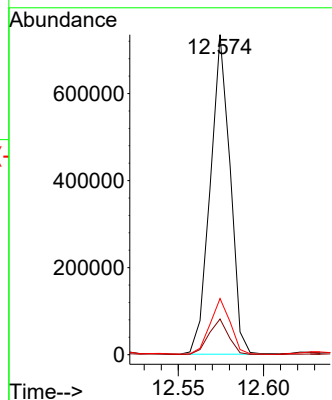
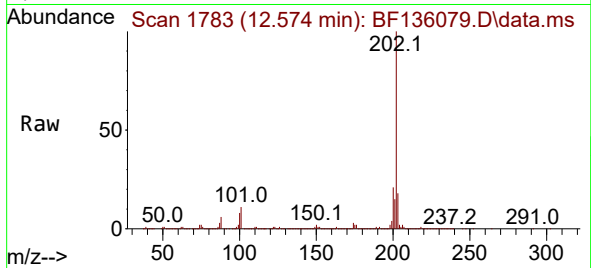




#75
Fluoranthene
Concen: 29.963 ng
RT: 12.574 min Scan# 1783
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

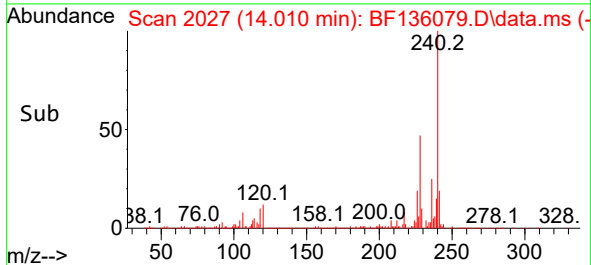
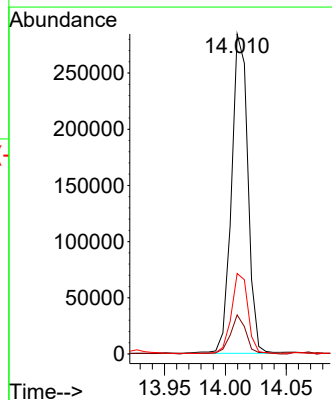
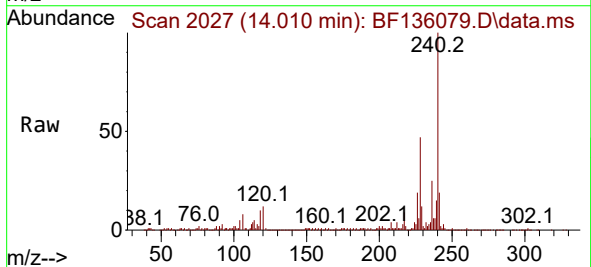
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

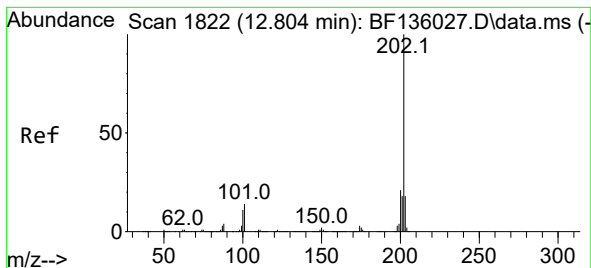
Tgt Ion:202 Resp: 595727
Ion Ratio Lower Upper
202 100
101 11.2 0.0 31.8
203 17.5 0.0 37.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:240 Resp: 266321
Ion Ratio Lower Upper
240 100
120 12.2 7.6 11.4#
236 25.1 20.6 31.0





#78

Pyrene

Concen: 33.360 ng

RT: 12.804 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

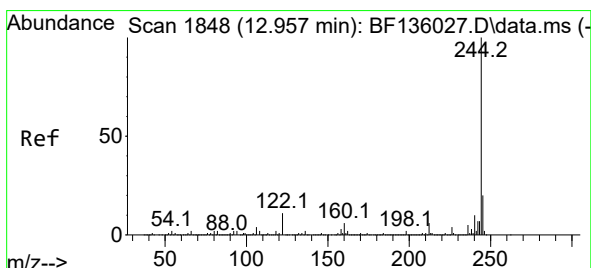
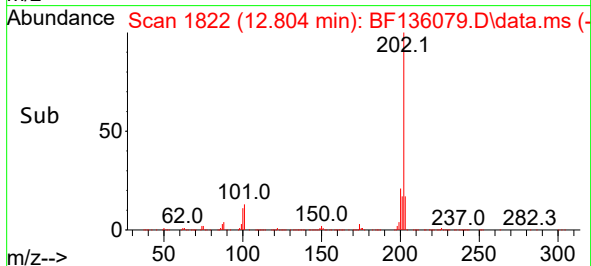
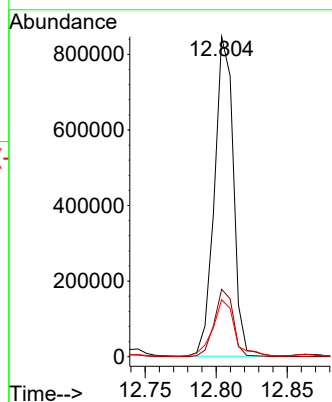
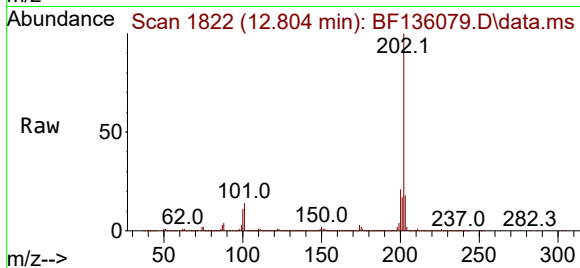
Tgt Ion:202 Resp: 783306

Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.4 21.6



#79

Terphenyl-d14

Concen: 4.936 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

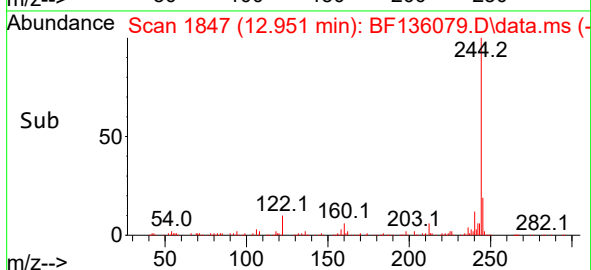
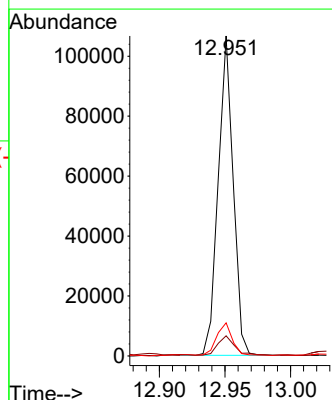
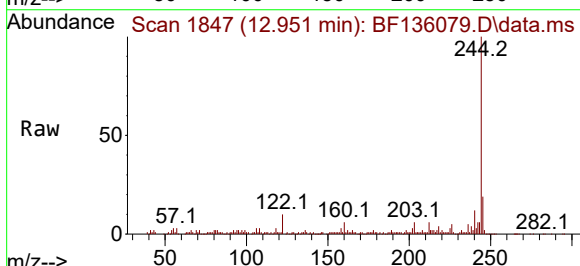
Tgt Ion:244 Resp: 84584

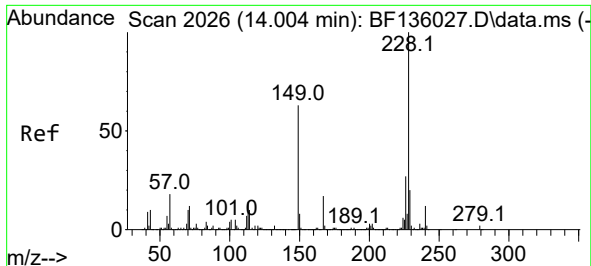
Ion Ratio Lower Upper

244 100

212 6.3 5.1 7.7

122 10.3 8.6 12.8

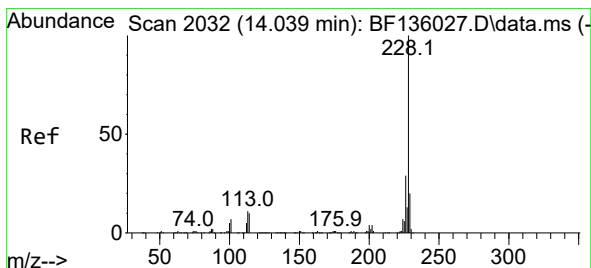
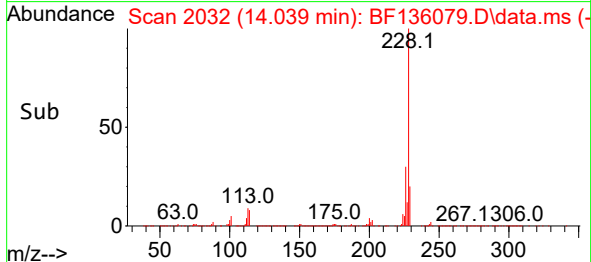
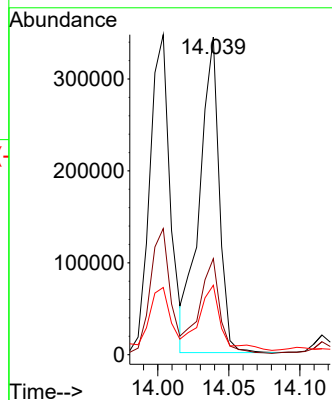
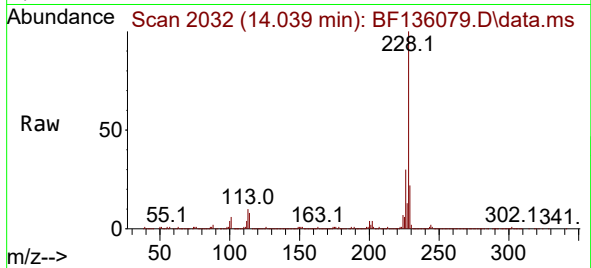




#81
Benzo(a)anthracene
Concen: 18.900 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.035 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

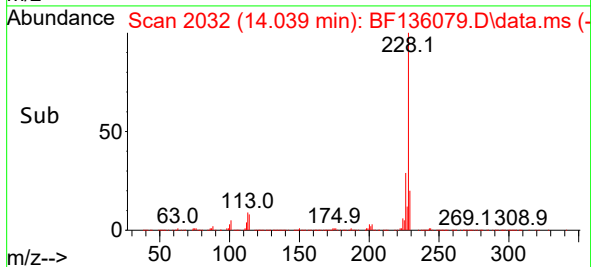
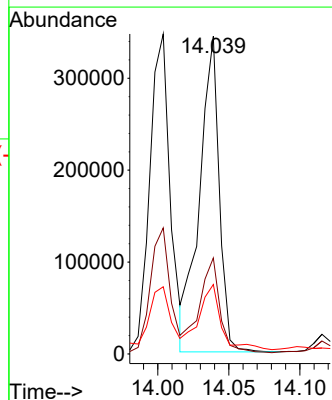
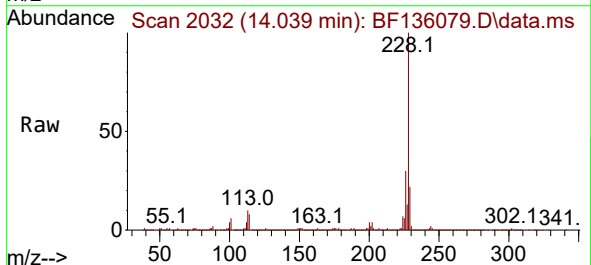
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)DL

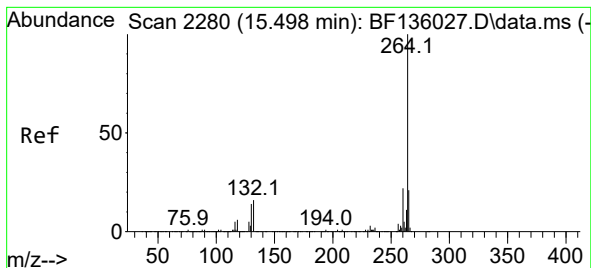
Tgt Ion:228 Resp: 333232
Ion Ratio Lower Upper
228 100
226 30.3 21.5 32.3
229 21.9 15.8 23.6



#83
Chrysene
Concen: 19.191 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF136079.D
Acq: 01 Nov 2023 16:27

Tgt Ion:228 Resp: 333232
Ion Ratio Lower Upper
228 100
226 30.3 23.5 35.3
229 21.9 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: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

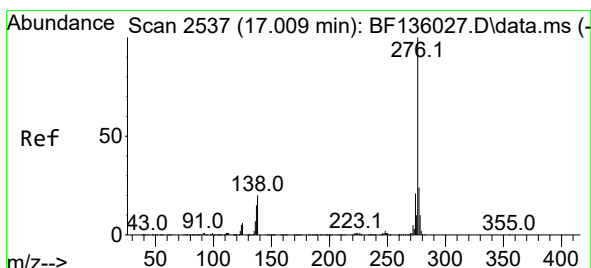
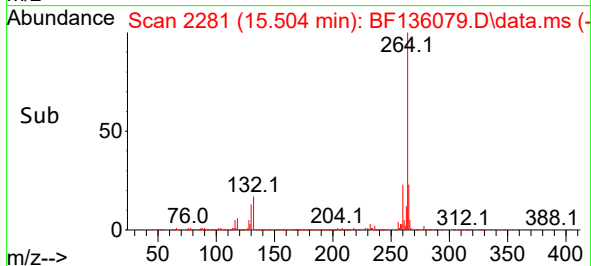
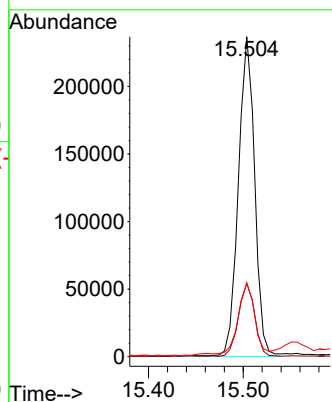
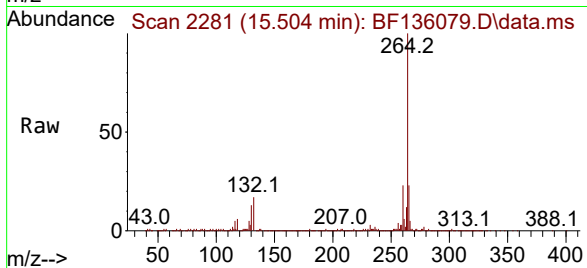
Tgt Ion:264 Resp: 281970

Ion Ratio Lower Upper

264 100

260 22.9 17.9 26.9

265 23.1 16.8 25.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.459 ng

RT: 17.009 min Scan# 2537

Delta R.T. 0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

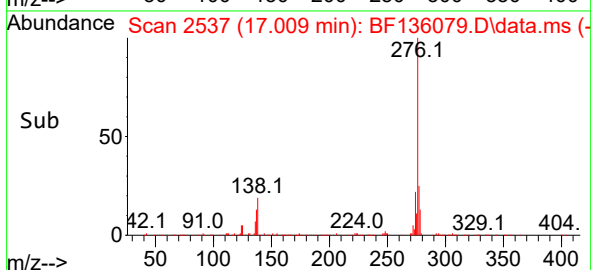
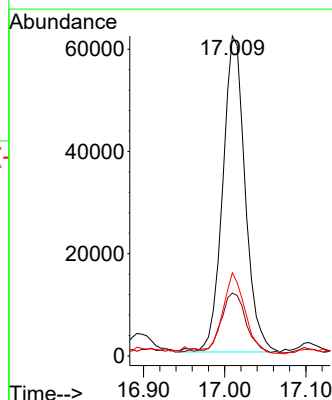
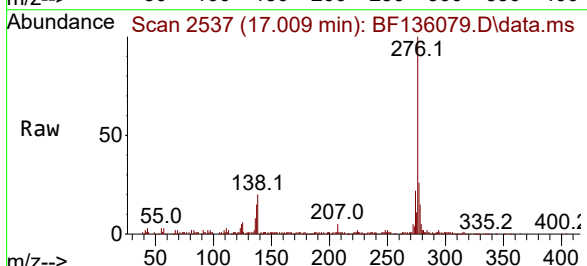
Tgt Ion:276 Resp: 119024

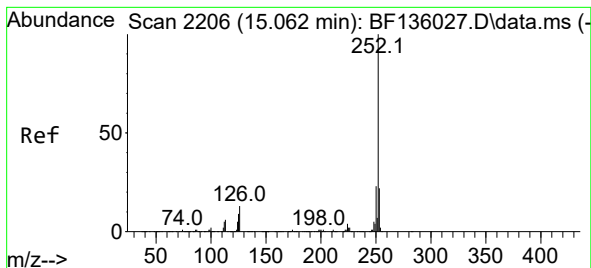
Ion Ratio Lower Upper

276 100

138 21.5 20.4 30.6

277 25.6 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 26.599 ng

RT: 15.063 min Scan# 2206

Delta R.T. 0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

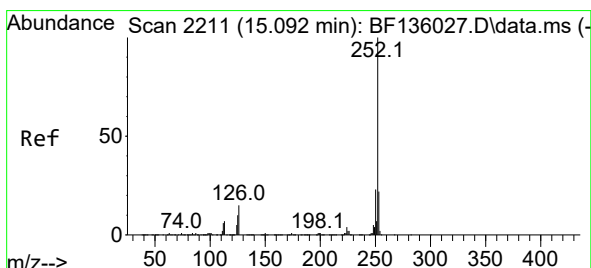
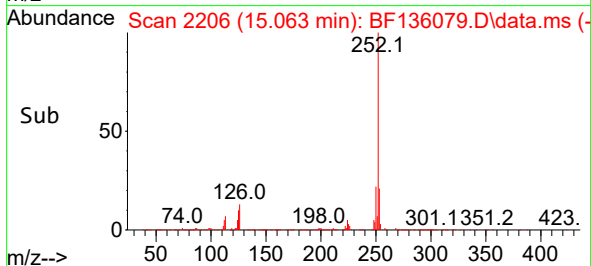
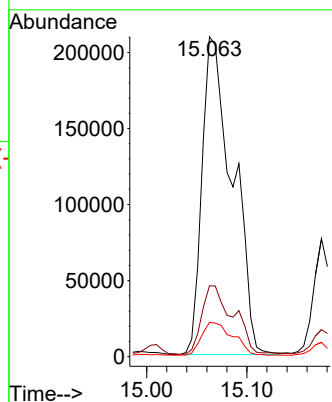
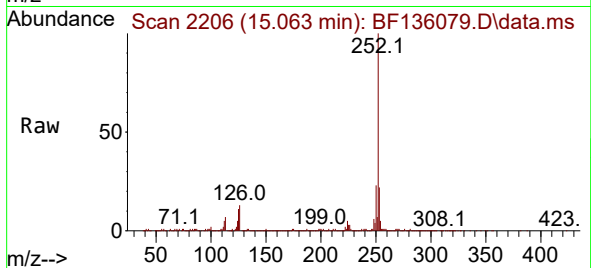
Tgt Ion:252 Resp: 443788

Ion Ratio Lower Upper

252 100

253 22.2 17.7 26.5

125 10.7 7.5 11.3



#89

Benzo(k)fluoranthene

Concen: 26.882 ng

RT: 15.063 min Scan# 2206

Delta R.T. -0.029 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

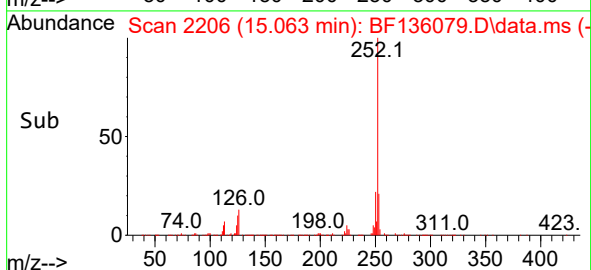
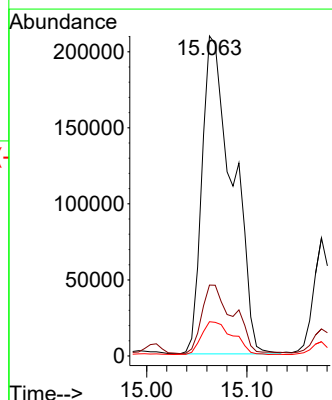
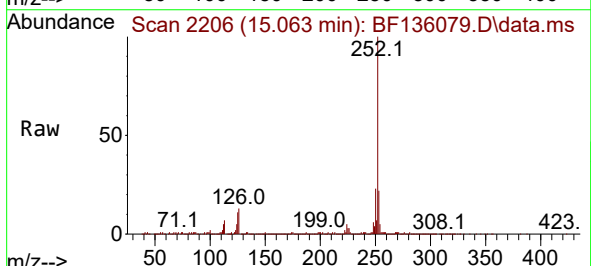
Tgt Ion:252 Resp: 443788

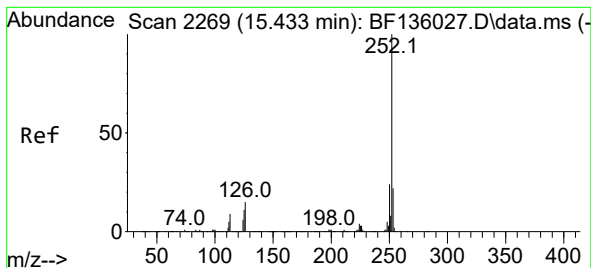
Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

125 10.7 8.0 12.0





#90

Benzo(a)pyrene

Concen: 19.879 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)DL

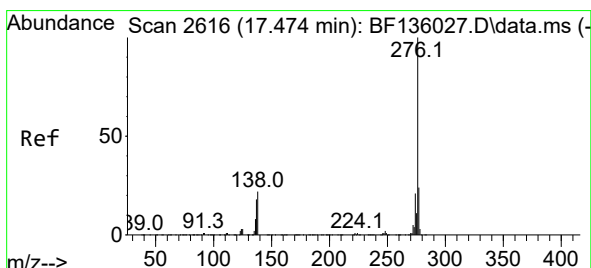
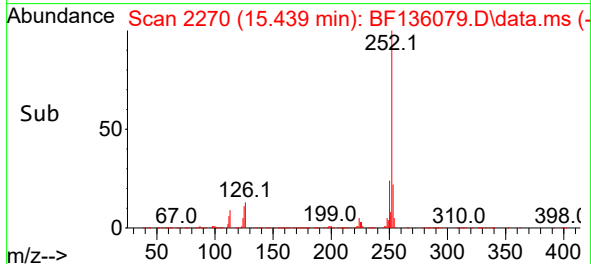
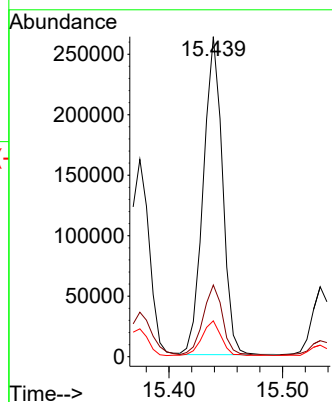
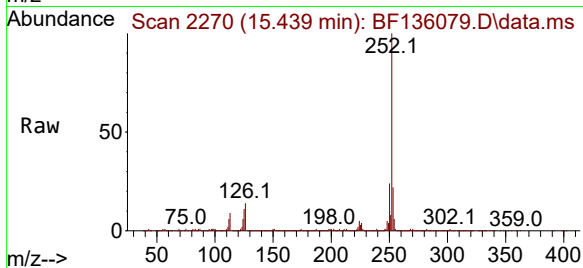
Tgt Ion:252 Resp: 308170

Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

125 11.2 9.0 13.6



#92

Benzo(g,h,i)perylene

Concen: 9.349 ng

RT: 17.474 min Scan# 2616

Delta R.T. 0.000 min

Lab File: BF136079.D

Acq: 01 Nov 2023 16:27

Tgt Ion:276 Resp: 118039

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.4

138 21.6 17.4 26.2

