

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071823\
 Data File : BF134352.D
 Acq On : 18 Jul 2023 23:02
 Operator : CG\JU
 Sample : 03600-01DL 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223DL

Quant Time: Jul 19 01:43:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 14 22:51:27 2023
 Response via : Initial Calibration

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

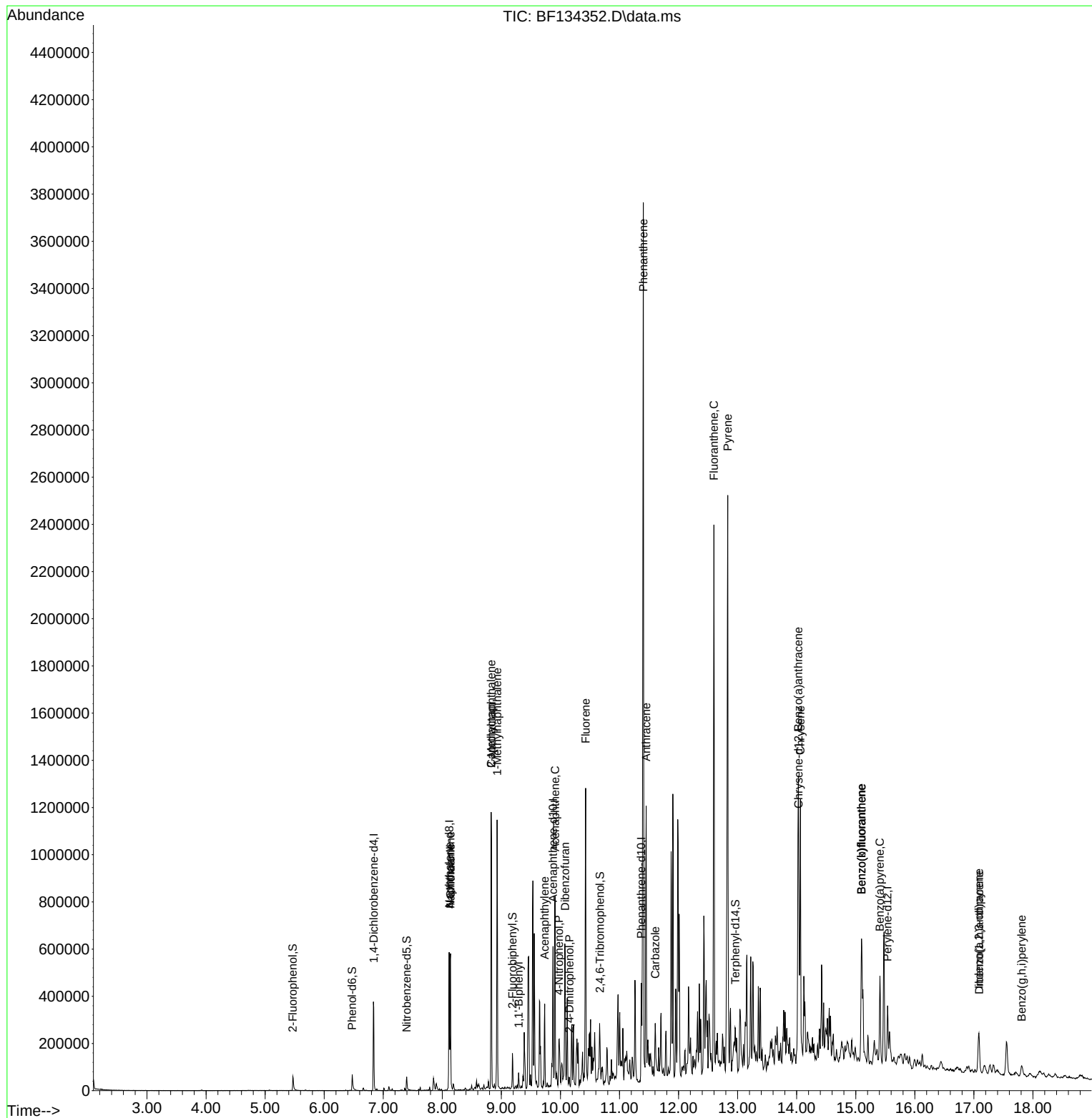
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	59011	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	221118	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	107500	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	174245	20.000	ng	0.00
76) Chrysene-d12	14.033	240	128253	20.000	ng	0.00
86) Perylene-d12	15.539	264	116291	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	20336	5.765	ng	0.00
7) Phenol-d6	6.475	99	26640	6.140	ng	-0.01
23) Nitrobenzene-d5	7.398	82	17871	4.357	ng	-0.01
42) 2,4,6-Tribromophenol	10.669	330	7862	5.833	ng	-0.01
45) 2-Fluorobiphenyl	9.186	172	39273	5.312	ng	-0.02
79) Terphenyl-d14	12.963	244	36480	4.578	ng	-0.01
Target Compounds						Qvalue
9) Benzaldehyde	6.357	77	55	Below Cal	#	1
31) Naphthalene	8.139	128	240727	22.539	ng	98
33) 4-Chloroaniline	8.139	127	31139	6.816	ng	# 36
35) Caprolactam	8.828	113	7842	7.631	ng	# 1
37) 2-Methylnaphthalene	8.828	142	296375	39.240	ng	99
38) 1-Methylnaphthalene	8.928	142	259862	37.009	ng	98
46) 1,1'-Biphenyl	9.292	154	17263	2.002	ng	97
49) Acenaphthylene	9.733	152	32714	3.035	ng	# 80
52) Acenaphthene	9.910	154	165619	26.482	ng	94
54) 2,4-Dinitrophenol	10.151	184	96	3.958	ng	# 1
55) Dibenzofuran	10.080	168	139686	14.292	ng	# 93
56) 4-Nitrophenol	9.975	139	5084	3.605	ng	# 27
58) Fluorene	10.428	166	309247	40.669	ng	99
71) Phenanthrene	11.404	178	1490639	169.936	ng	99
72) Anthracene	11.451	178	418339	45.852	ng	99
73) Carbazole	11.604	167	65266	7.815	ng	96
75) Fluoranthene	12.598	202	930823	98.156	ng	99
78) Pyrene	12.833	202	1074622	90.034	ng	100
81) Benzo(a)anthracene	14.027	228	448956	50.475	ng	98
83) Chrysene	14.063	228	414978	48.169	ng	97
87) Indeno(1,2,3-cd)pyrene	17.086	276	119928	14.862	ng	# 92
88) Benzo(b)fluoranthene	15.098	252	448743	65.625	ng	98
89) Benzo(k)fluoranthene	15.098	252	448743	64.455	ng	97
90) Benzo(a)pyrene	15.410	252	172222	26.046	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	33922	5.147	ng	# 92
92) Benzo(g,h,i)perylene	17.809	276	36999	5.443	ng	96

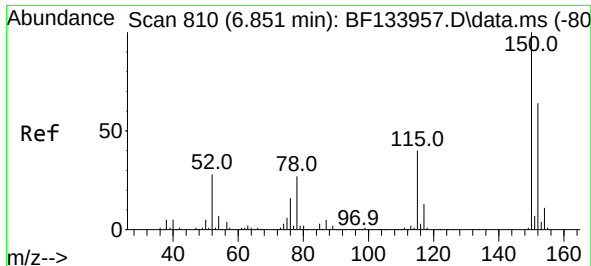
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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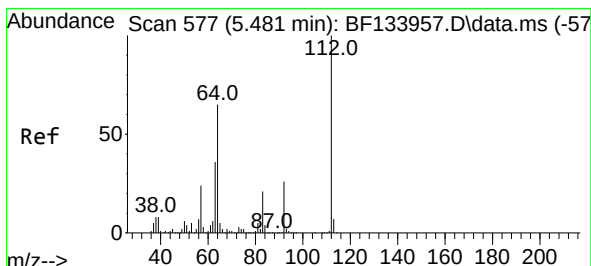
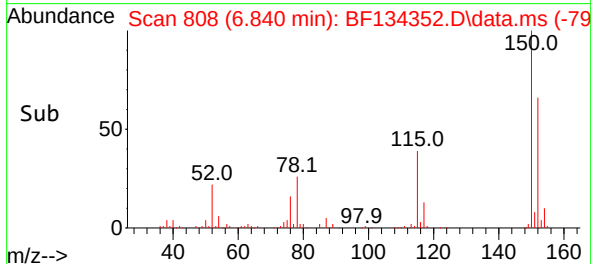
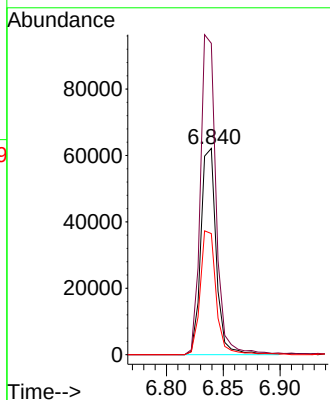
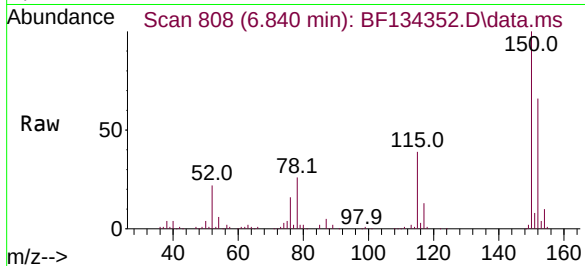




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 80
Delta R.T. -0.005 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

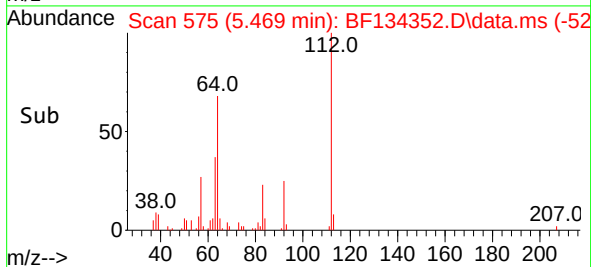
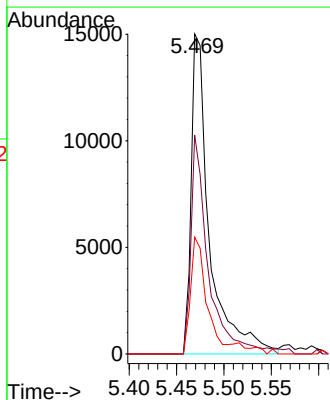
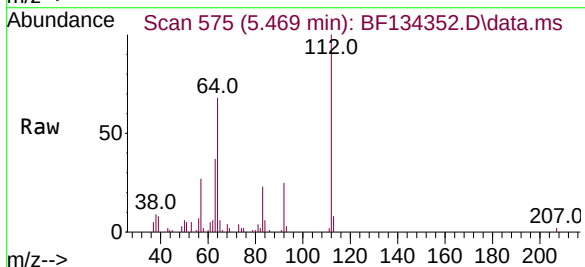
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL

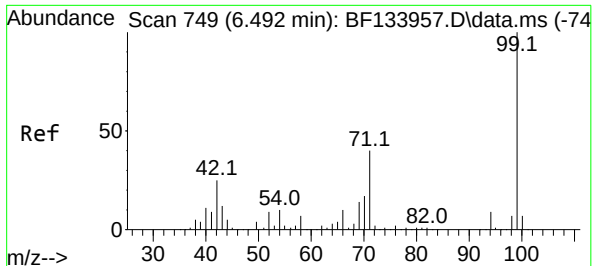
Tgt Ion:152 Resp: 59011
Ion Ratio Lower Upper
152 100
150 151.0 124.5 186.7
115 58.7 50.2 75.2



#5
2-Fluorophenol
Concen: 5.765 ng
RT: 5.469 min Scan# 575
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

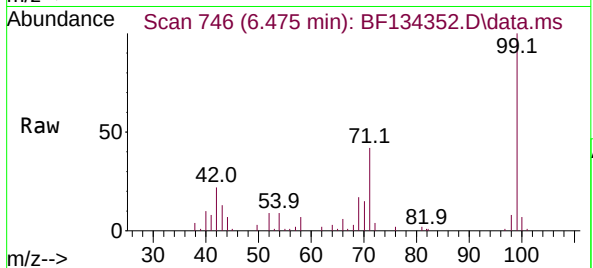
Tgt Ion:112 Resp: 20336
Ion Ratio Lower Upper
112 100
64 68.4 52.1 78.1
63 36.5 28.6 42.8



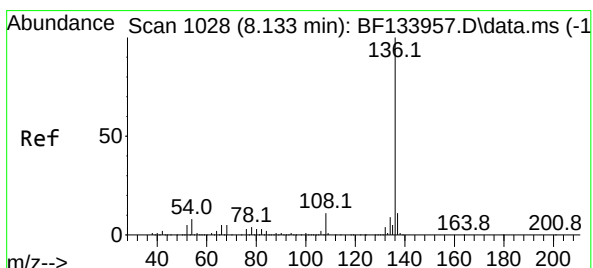
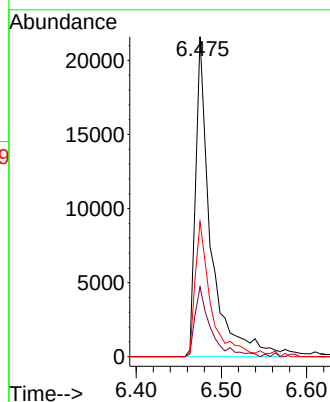
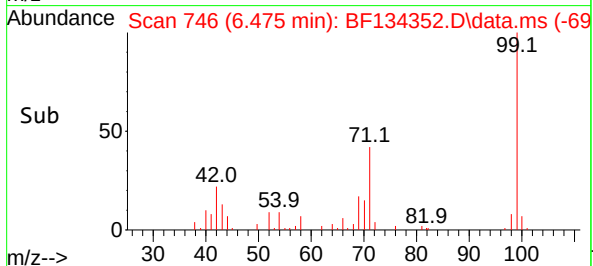


#7
Phenol-d6
Concen: 6.140 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL

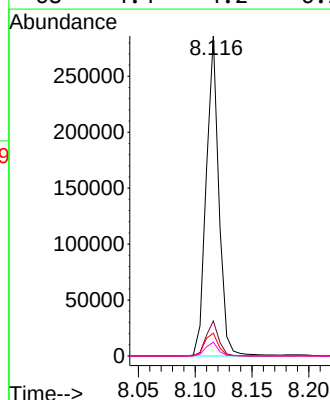
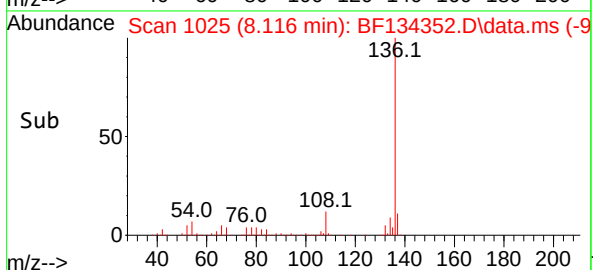
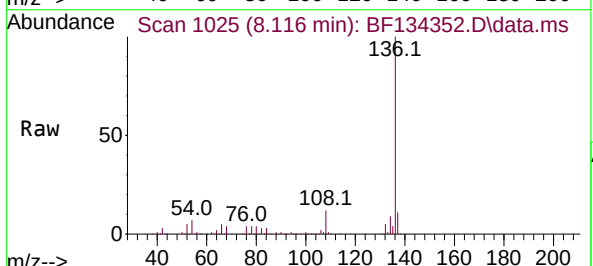


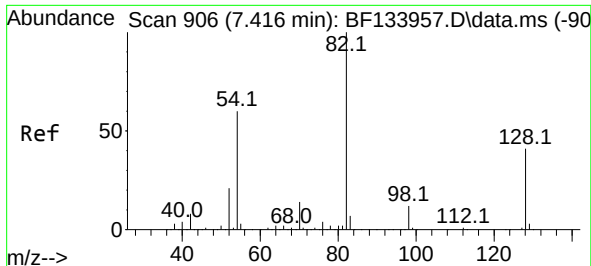
Tgt Ion:	99	Resp:	26640
Ion	Ratio	Lower	Upper
99	100		
42	21.8	19.8	29.6
71	42.2	31.9	47.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Tgt Ion:	136	Resp:	221118
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	7.1	6.5	9.7
68	4.4	4.2	6.2

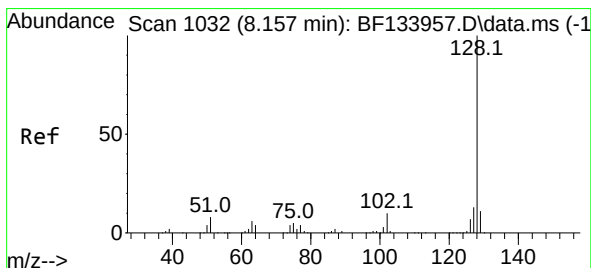
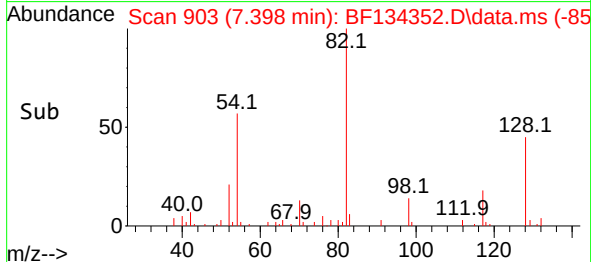
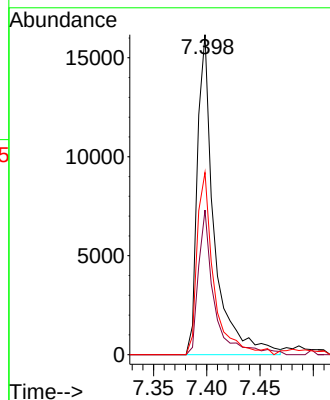
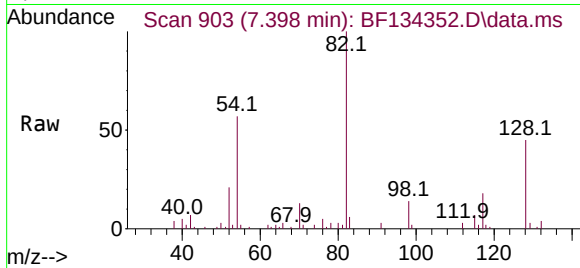




#23
 Nitrobenzene-d5
 Concen: 4.357 ng
 RT: 7.398 min Scan# 90
 Delta R.T. -0.012 min
 Lab File: BF134352.D
 Acq: 18 Jul 2023 23:02

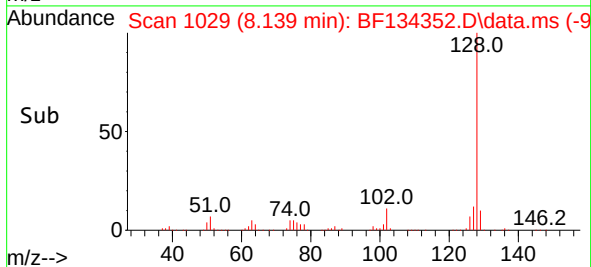
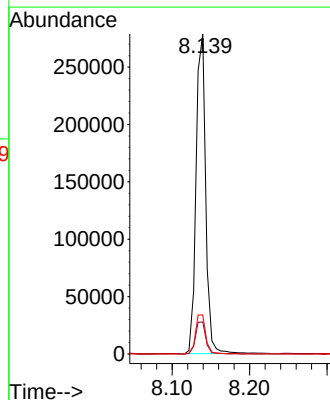
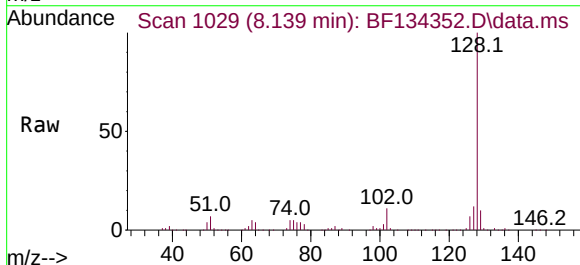
Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223DL

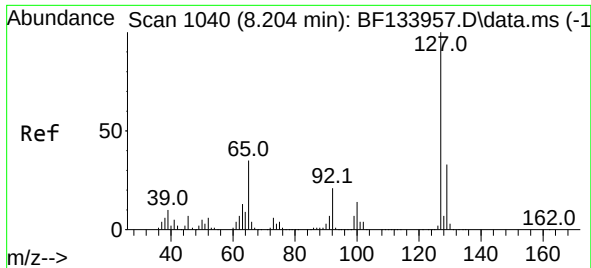
Tgt Ion: 82 Resp: 17871
 Ion Ratio Lower Upper
 82 100
 128 45.2 32.5 48.7
 54 57.0 48.2 72.2



#31
 Naphthalene
 Concen: 22.539 ng
 RT: 8.139 min Scan# 1029
 Delta R.T. -0.006 min
 Lab File: BF134352.D
 Acq: 18 Jul 2023 23:02

Tgt Ion:128 Resp: 240727
 Ion Ratio Lower Upper
 128 100
 129 10.0 8.7 13.1
 127 12.2 10.6 15.8

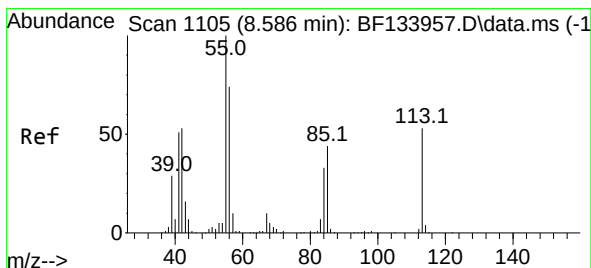
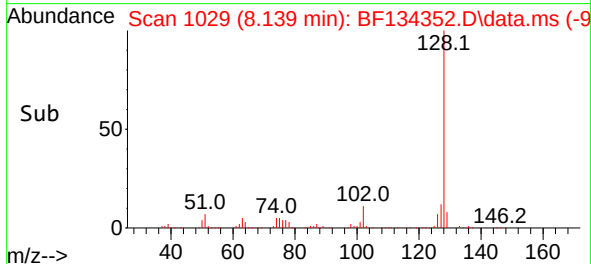
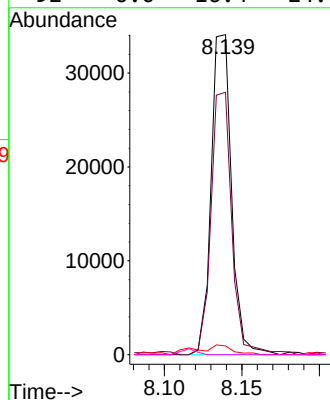
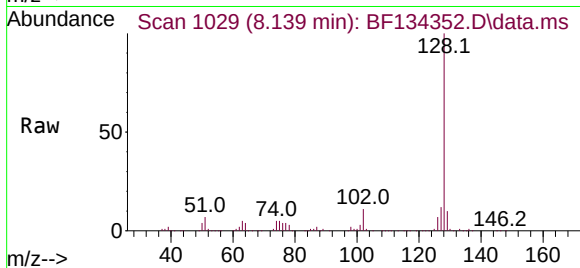




#33
4-Chloroaniline
Concen: 6.816 ng
RT: 8.139 min Scan# 11
Delta R.T. -0.059 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

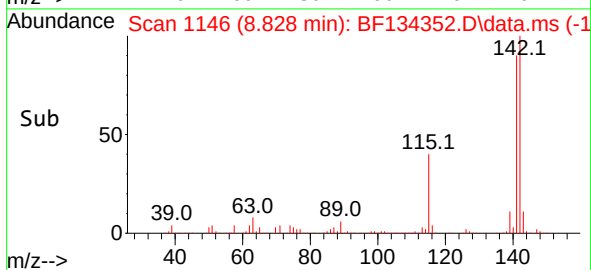
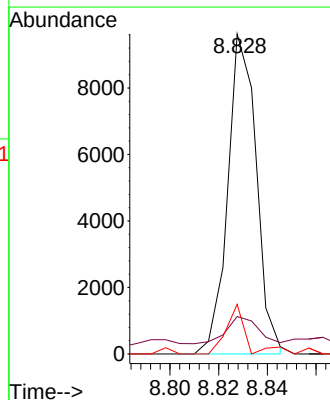
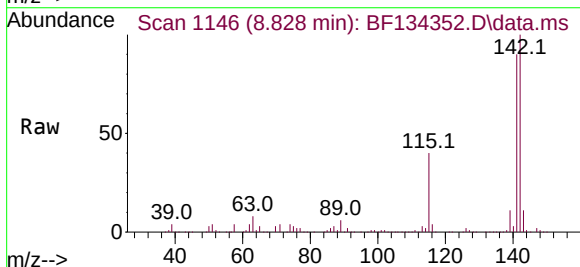
Instrument :
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ClientSampleId :
SU-3-071223DL

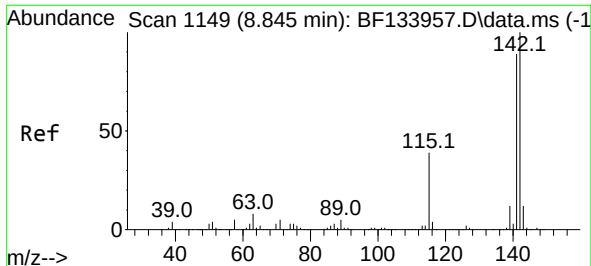
Tgt Ion:127	Resp:	31139
Ion Ratio	Lower	Upper
127	100	
129	82.0	26.4 39.6#
65	2.8	27.8 41.8#
92	0.0	16.4 24.6#



#35
Caprolactam
Concen: 7.631 ng
RT: 8.828 min Scan# 1146
Delta R.T. 0.253 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Tgt Ion:113	Resp:	7842
Ion Ratio	Lower	Upper
113	100	
55	11.7	170.2 210.2#
56	15.5	121.4 161.4#

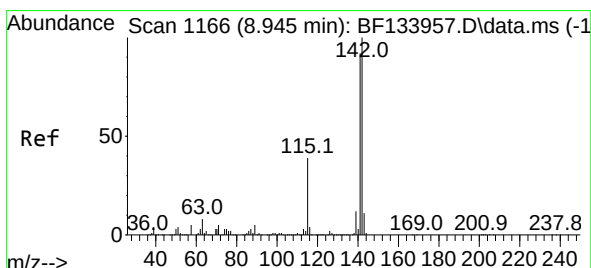
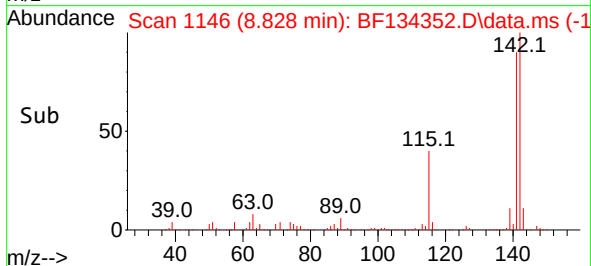
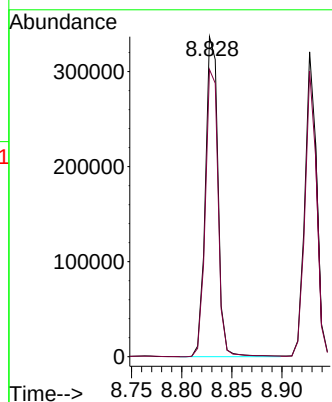
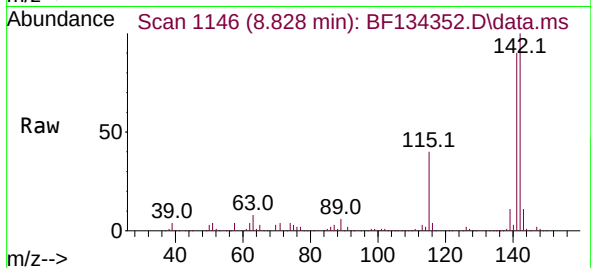




#37
2-Methylnaphthalene
Concen: 39.240 ng
RT: 8.828 min Scan# 1146
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

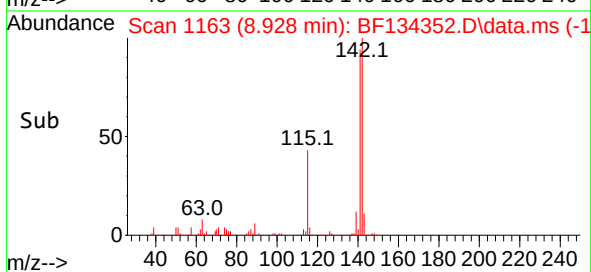
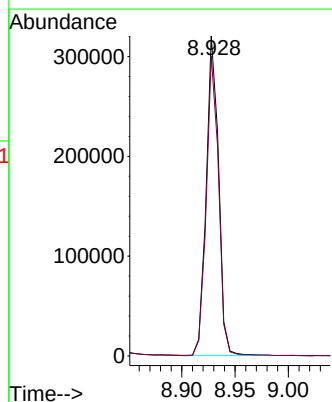
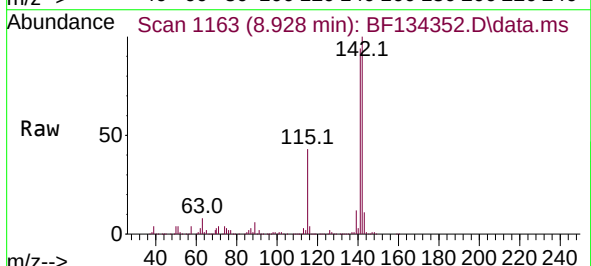
Instrument :
BNA_F
ClientSampleId :
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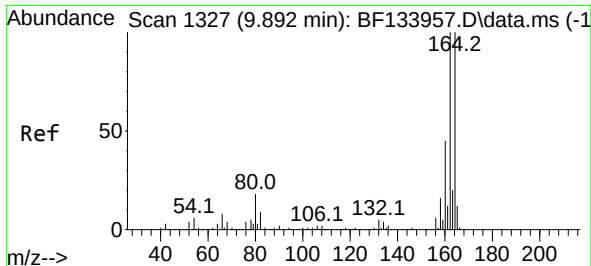
Tgt Ion:142 Resp: 296375
Ion Ratio Lower Upper
142 100
141 89.8 71.0 106.4



#38
1-Methylnaphthalene
Concen: 37.009 ng
RT: 8.928 min Scan# 1163
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Tgt Ion:142 Resp: 259862
Ion Ratio Lower Upper
142 100
141 93.7 73.5 110.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.875 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

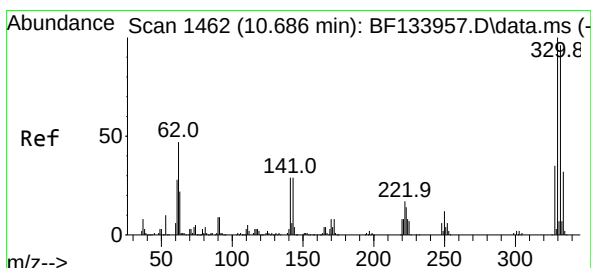
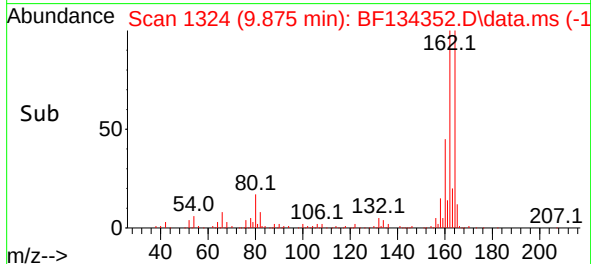
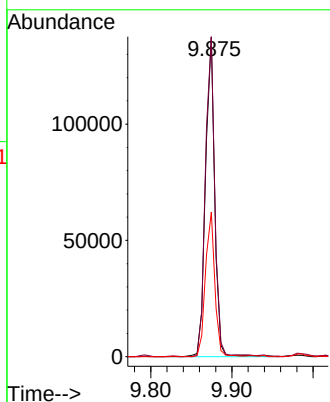
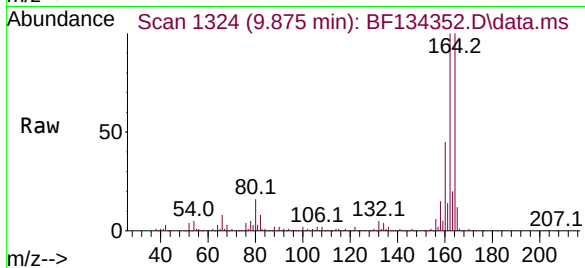
Tgt Ion:164 Resp: 107500

Ion Ratio Lower Upper

164 100

162 100.1 80.0 120.0

160 45.2 35.9 53.9



#42

2,4,6-Tribromophenol

Concen: 5.833 ng

RT: 10.669 min Scan# 1459

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

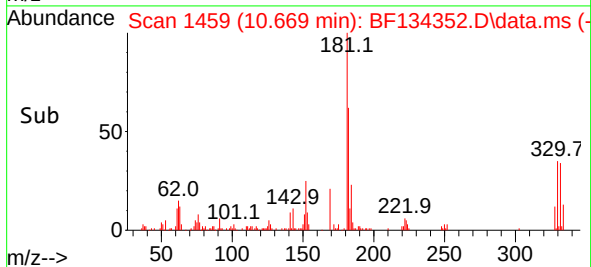
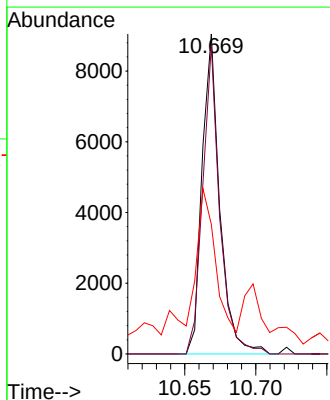
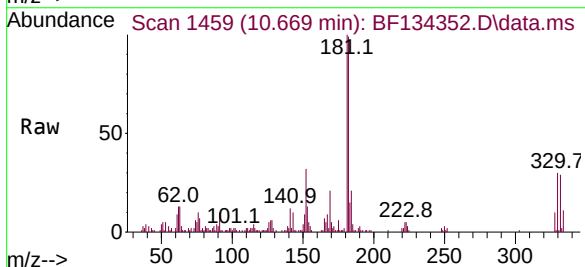
Tgt Ion:330 Resp: 7862

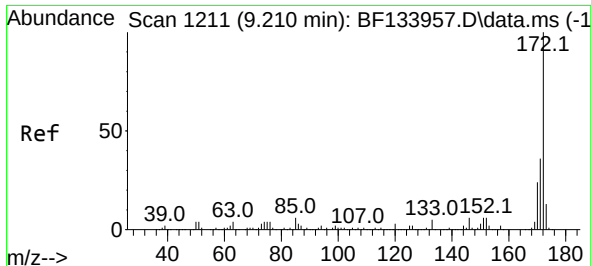
Ion Ratio Lower Upper

330 100

332 93.4 77.0 115.6

141 61.9 26.3 39.5#





#45

2-Fluorobiphenyl

Concen: 5.312 ng

RT: 9.186 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

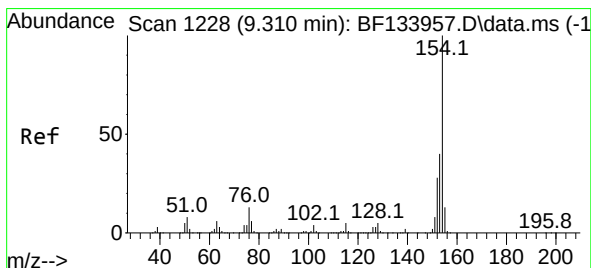
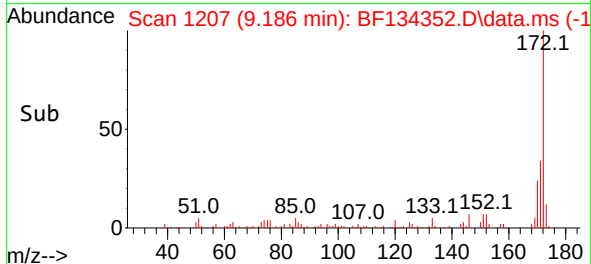
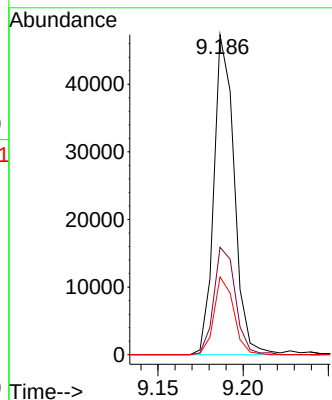
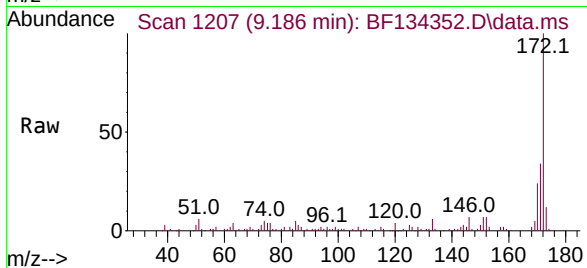
Tgt Ion:172 Resp: 39273

Ion Ratio Lower Upper

172 100

171 33.6 28.6 43.0

170 24.3 19.4 29.0



#46

1,1'-Biphenyl

Concen: 2.002 ng

RT: 9.292 min Scan# 1225

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

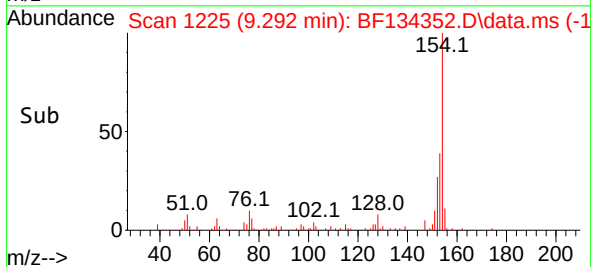
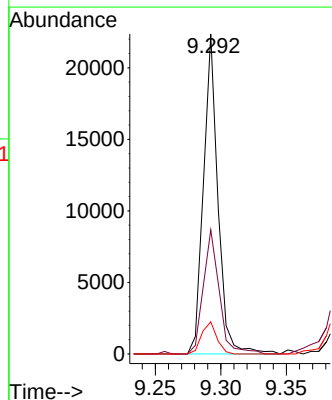
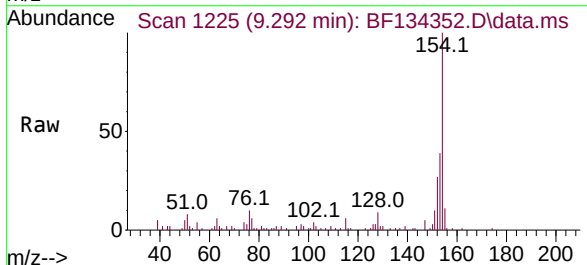
Tgt Ion:154 Resp: 17263

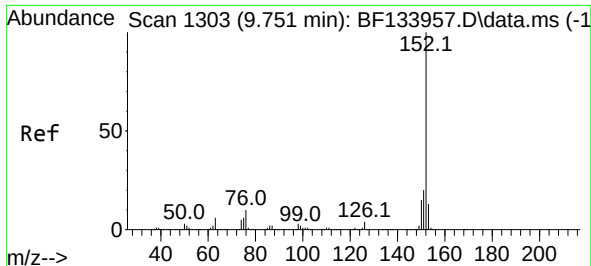
Ion Ratio Lower Upper

154 100

153 38.8 19.8 59.8

76 10.0 0.0 32.9





#49

Acenaphthylene

Concen: 3.035 ng

RT: 9.733 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

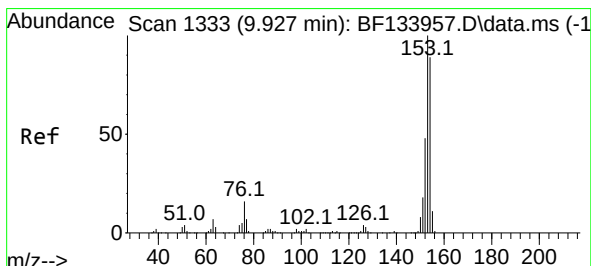
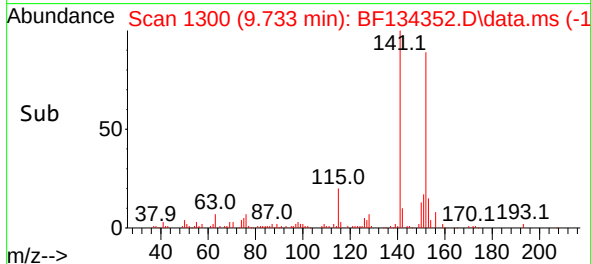
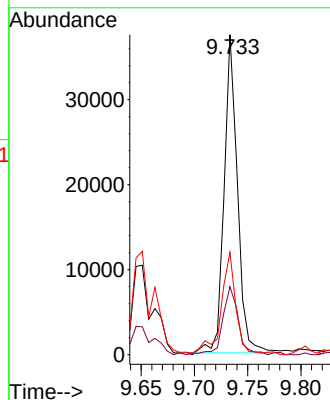
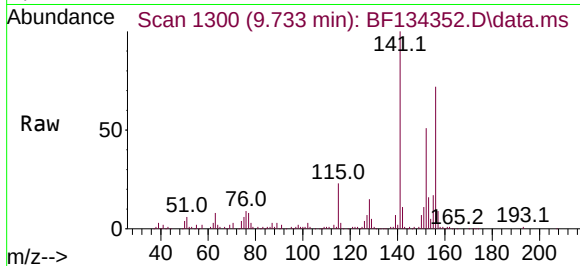
Tgt Ion:152 Resp: 32714

Ion Ratio Lower Upper

152 100

151 21.3 16.2 24.2

153 32.0 10.8 16.2#



#52

Acenaphthene

Concen: 26.482 ng

RT: 9.910 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

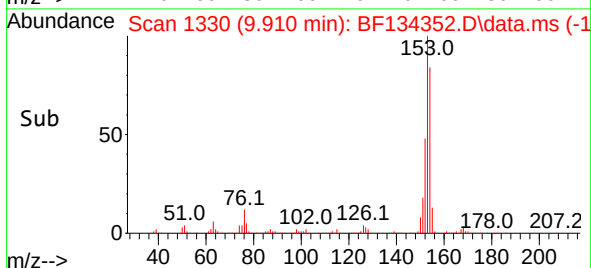
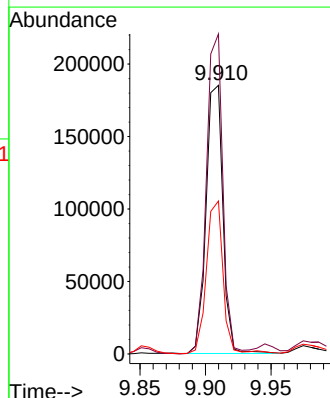
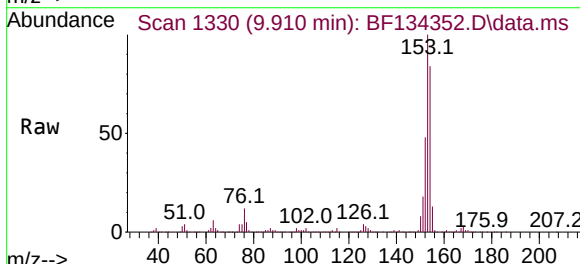
Tgt Ion:154 Resp: 165619

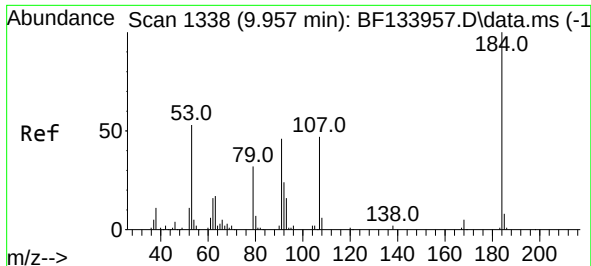
Ion Ratio Lower Upper

154 100

153 119.1 89.4 134.2

152 56.9 42.8 64.2





#54

2,4-Dinitrophenol

Concen: 3.958 ng

RT: 10.151 min Scan# 1371

Delta R.T. 0.194 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

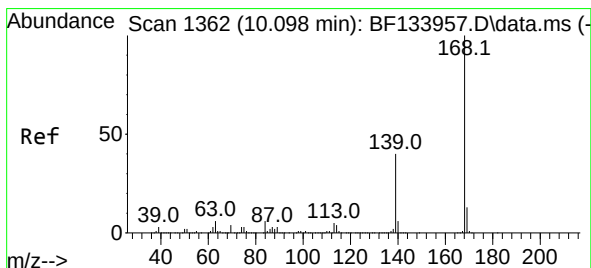
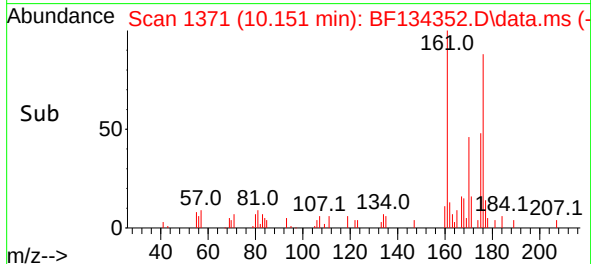
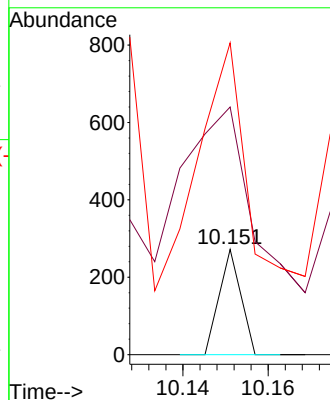
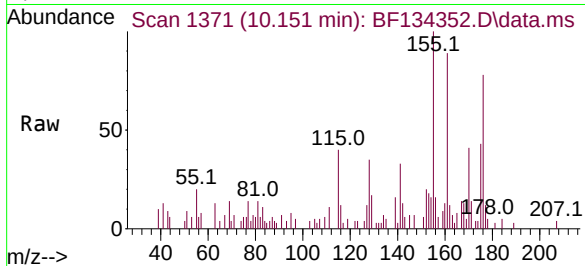
Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

Tgt Ion:184	Resp:	96
Ion	Ratio	Lower Upper
184	100	
63	235.3	56.9 85.3#
154	296.3	55.4 83.0#



#55

Dibenzofuran

Concen: 14.292 ng

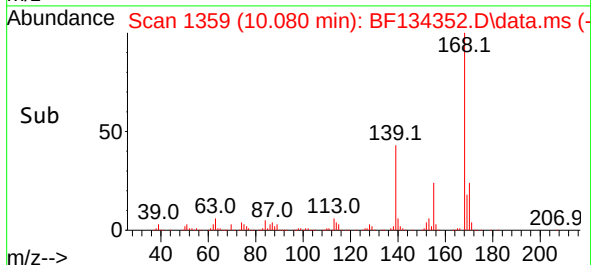
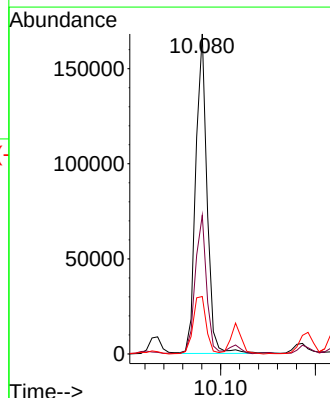
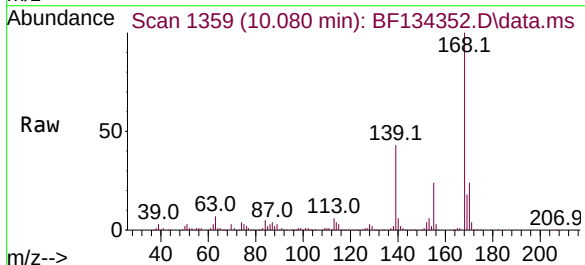
RT: 10.080 min Scan# 1359

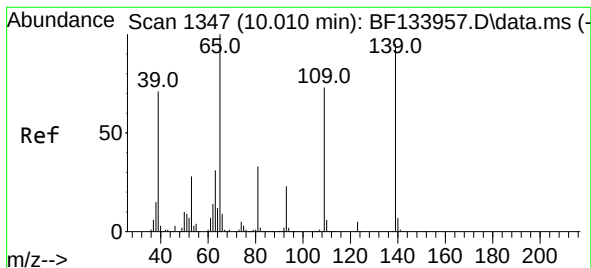
Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Tgt Ion:168	Resp:	139686
Ion	Ratio	Lower Upper
168	100	
139	43.3	32.0 48.0
169	18.0	10.6 16.0#

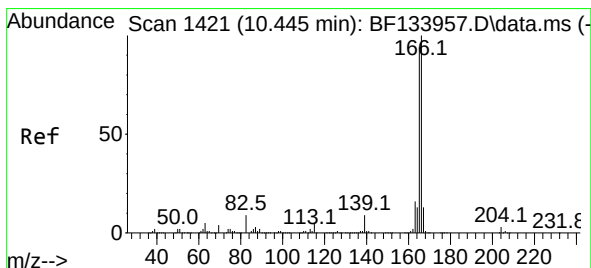
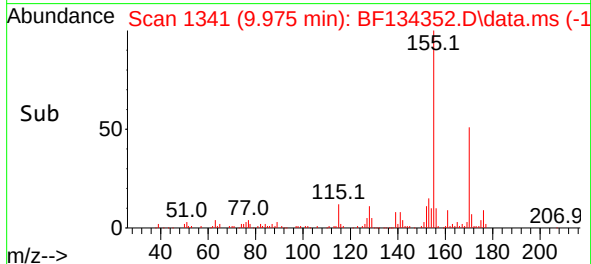
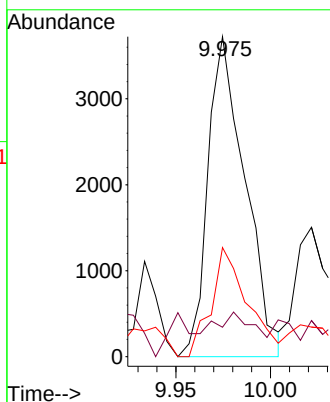
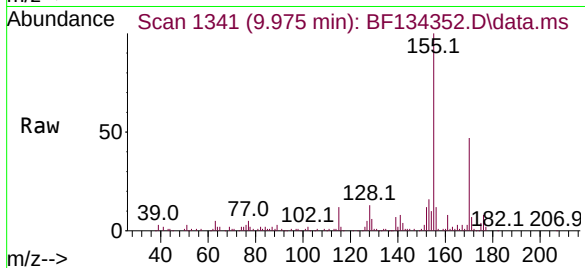




#56
4-Nitrophenol
Concen: 3.605 ng
RT: 9.975 min Scan# 1418
Delta R.T. -0.035 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

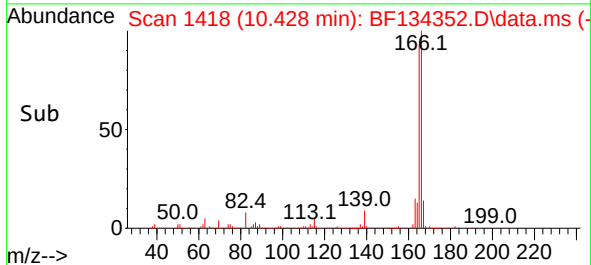
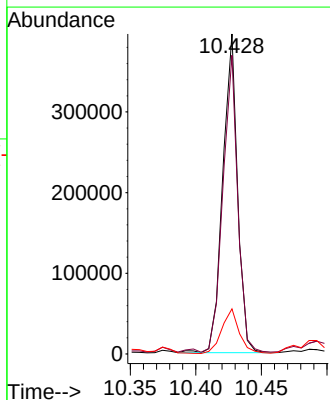
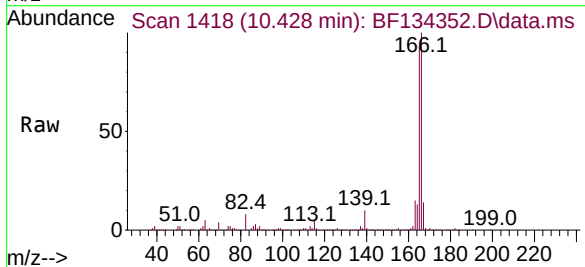
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL

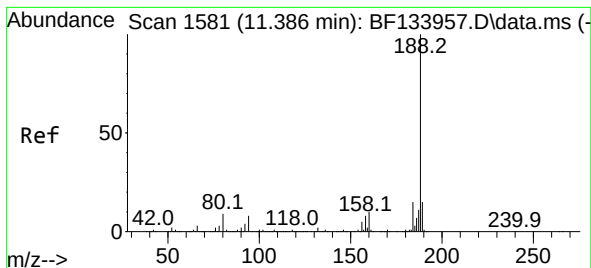
Tgt Ion:139 Resp: 5084
Ion Ratio Lower Upper
139 100
109 9.2 56.8 96.8#
65 34.1 86.1 126.1#



#58
Fluorene
Concen: 40.669 ng
RT: 10.428 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Tgt Ion:166 Resp: 309247
Ion Ratio Lower Upper
166 100
165 93.4 75.0 112.4
167 14.1 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.369 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

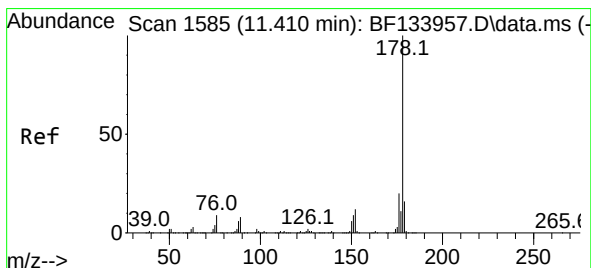
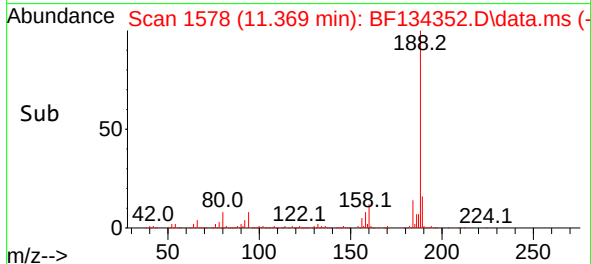
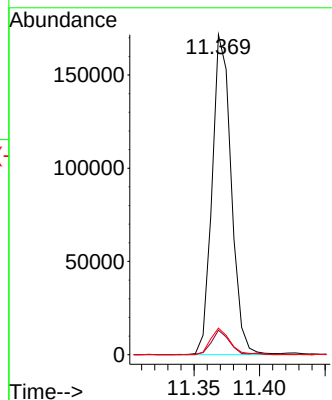
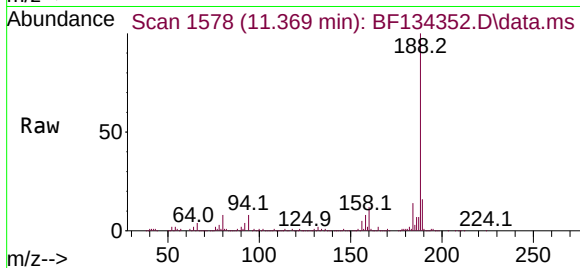
Tgt Ion:188 Resp: 174245

Ion Ratio Lower Upper

188 100

94 7.6 6.4 9.6

80 8.3 7.3 10.9



#71

Phenanthrene

Concen: 169.936 ng

RT: 11.404 min Scan# 1584

Delta R.T. 0.000 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

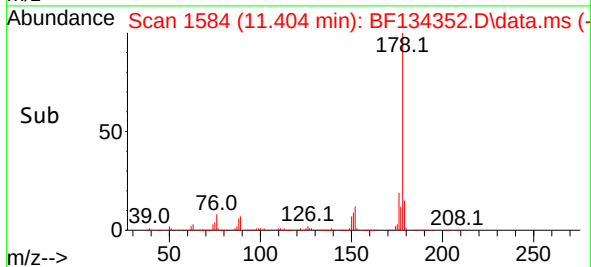
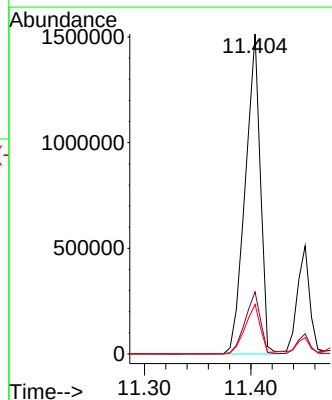
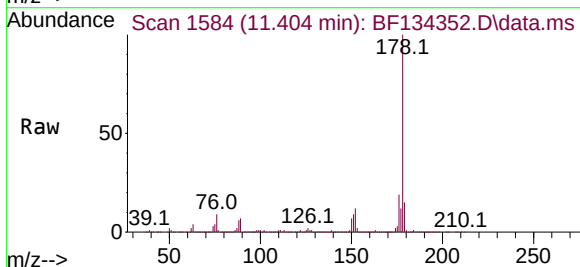
Tgt Ion:178 Resp: 1490639

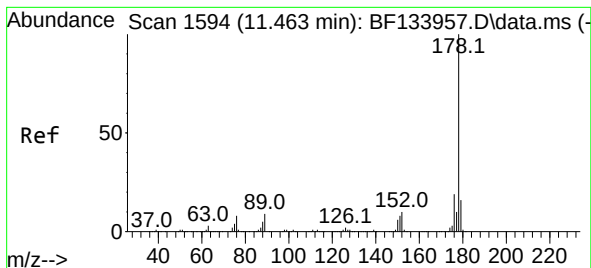
Ion Ratio Lower Upper

178 100

176 19.4 16.0 24.0

179 15.5 12.4 18.6





#72

Anthracene

Concen: 45.852 ng

RT: 11.451 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

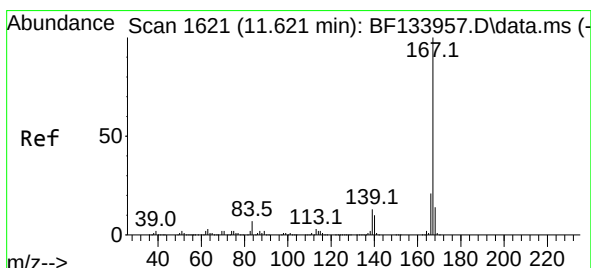
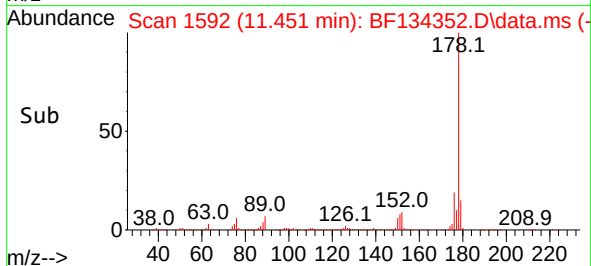
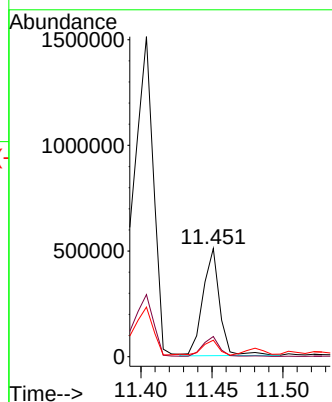
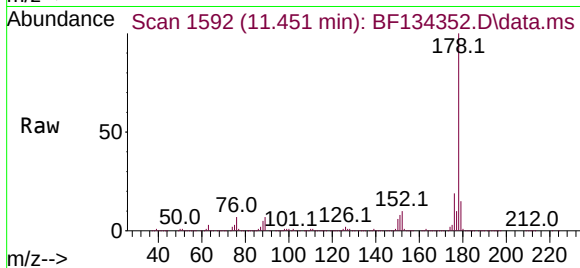
Tgt Ion:178 Resp: 418339

Ion Ratio Lower Upper

178 100

176 18.6 15.3 22.9

179 15.2 12.4 18.6



#73

Carbazole

Concen: 7.815 ng

RT: 11.604 min Scan# 1618

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

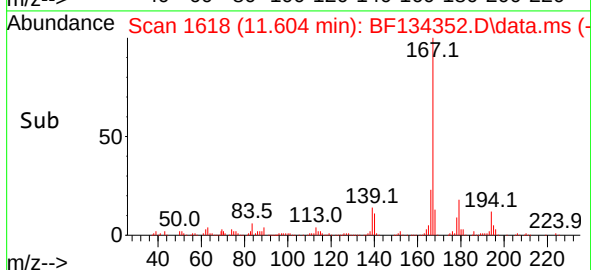
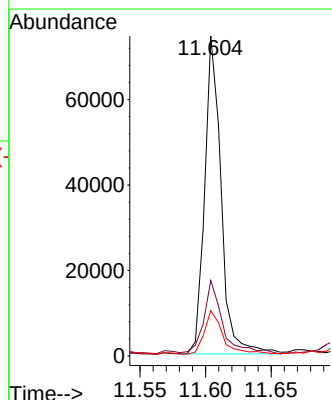
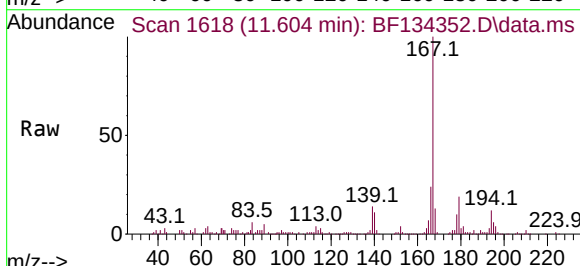
Tgt Ion:167 Resp: 65266

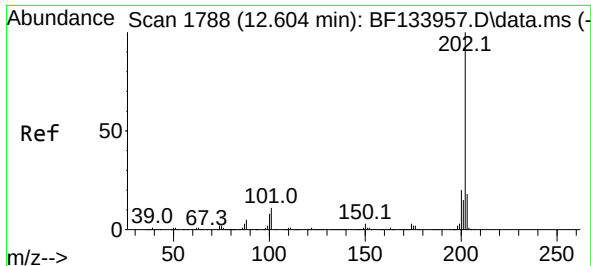
Ion Ratio Lower Upper

167 100

166 23.6 17.0 25.6

139 14.1 10.4 15.6

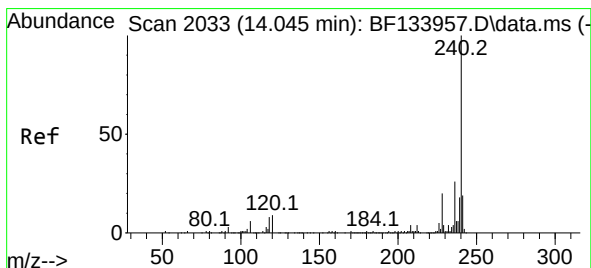
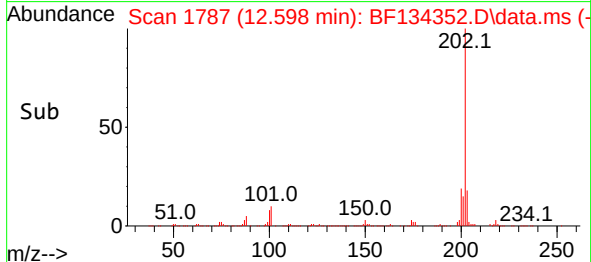
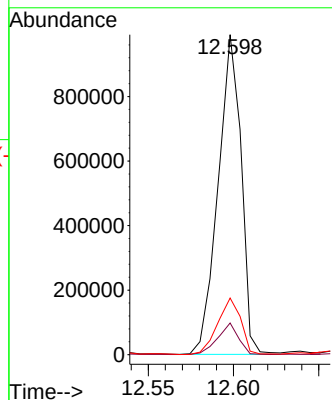
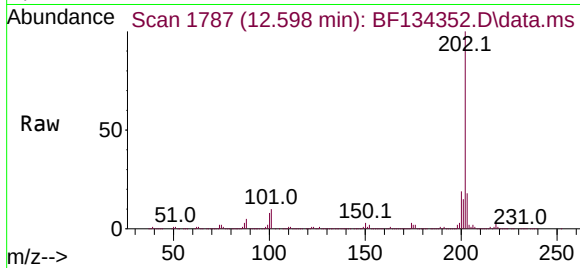




#75
Fluoranthene
Concen: 98.156 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

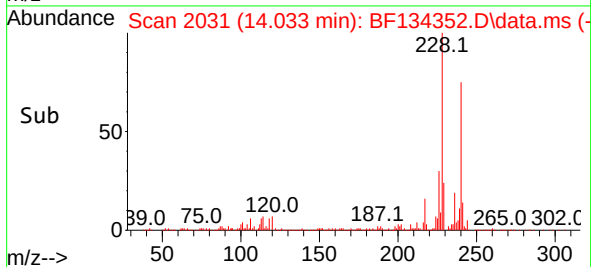
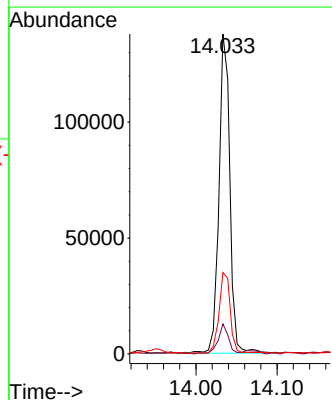
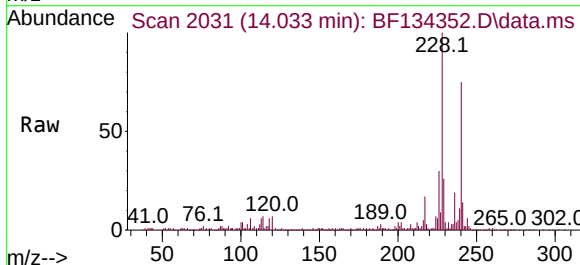
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL

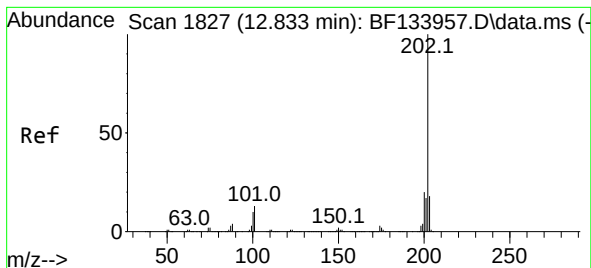
Tgt Ion:202 Resp: 930823
Ion Ratio Lower Upper
202 100
101 9.9 0.0 31.0
203 17.7 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Tgt Ion:240 Resp: 128253
Ion Ratio Lower Upper
240 100
120 9.4 7.4 11.0
236 25.5 21.0 31.6





#78

Pyrene

Concen: 90.034 ng

RT: 12.833 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

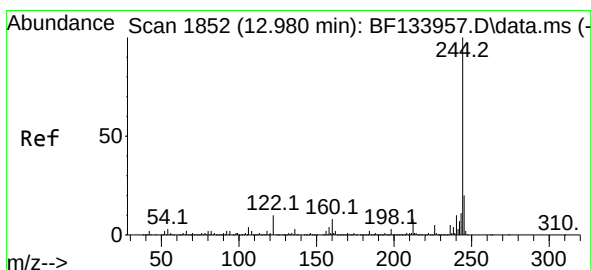
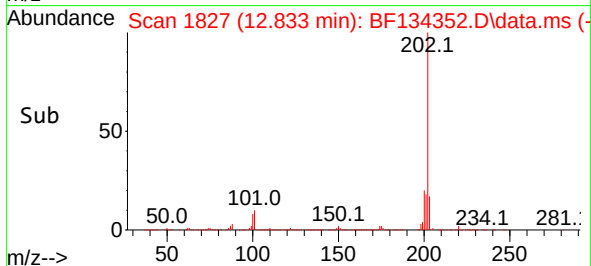
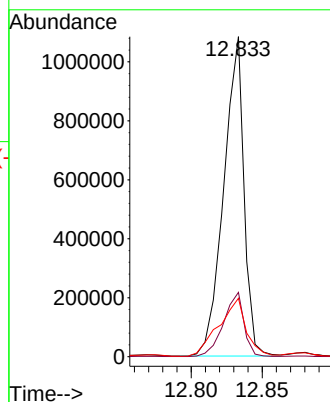
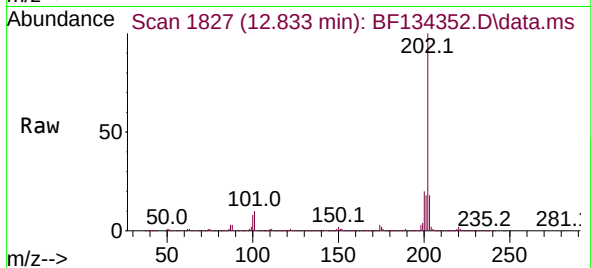
Tgt Ion:202 Resp: 1074622

Ion Ratio Lower Upper

202 100

200 20.1 16.1 24.1

203 18.3 14.3 21.5



#79

Terphenyl-d14

Concen: 4.578 ng

RT: 12.963 min Scan# 1849

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

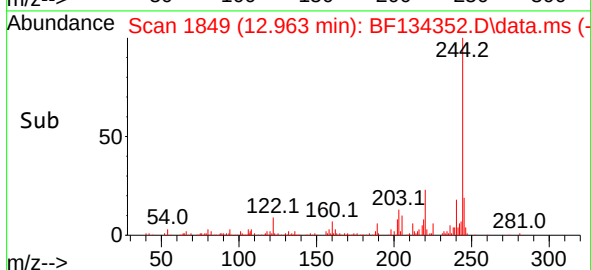
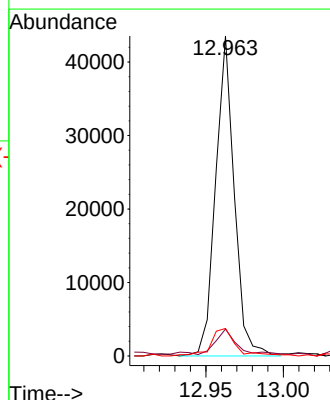
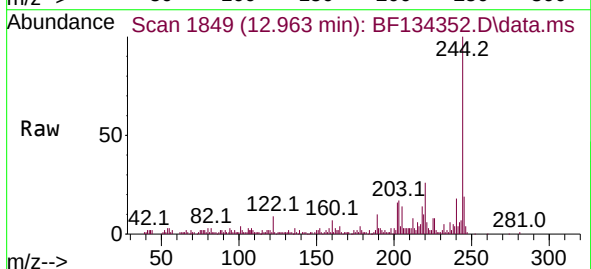
Tgt Ion:244 Resp: 36480

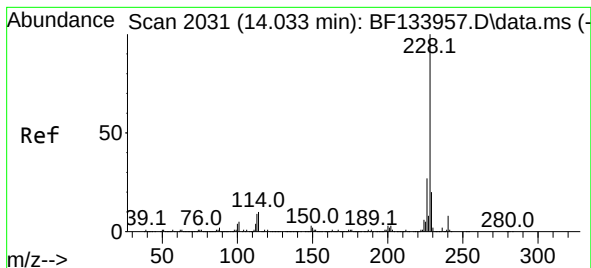
Ion Ratio Lower Upper

244 100

212 8.4 6.0 9.0

122 8.6 8.3 12.5





#81

Benzo(a)anthracene

Concen: 50.475 ng

RT: 14.027 min Scan# 2030

Delta R.T. 0.000 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

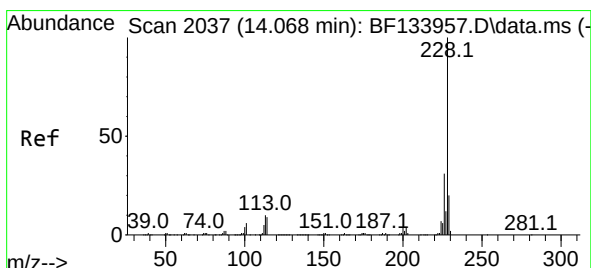
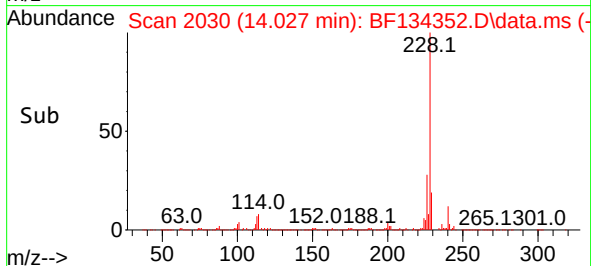
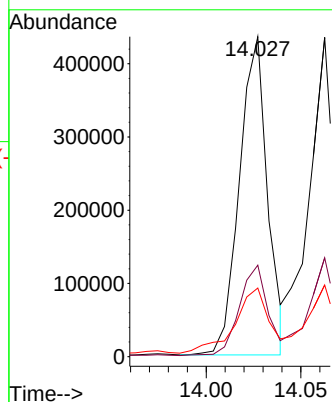
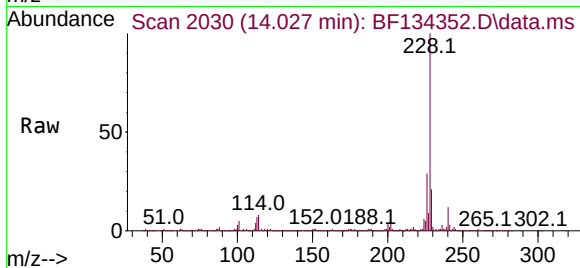
Tgt Ion:228 Resp: 448956

Ion Ratio Lower Upper

228 100

226 28.6 22.0 33.0

229 21.4 16.3 24.5



#83

Chrysene

Concen: 48.169 ng

RT: 14.063 min Scan# 2036

Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

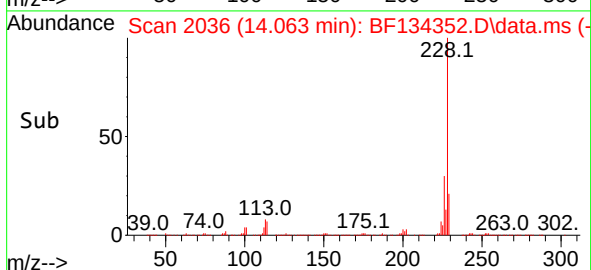
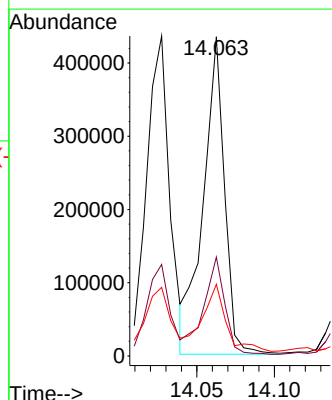
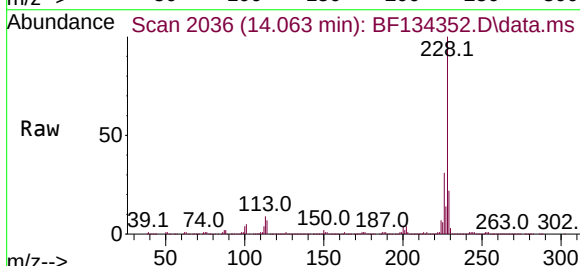
Tgt Ion:228 Resp: 414978

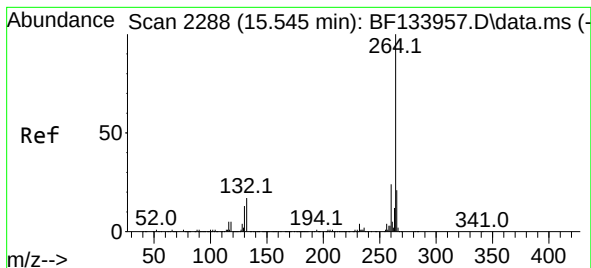
Ion Ratio Lower Upper

228 100

226 31.0 24.4 36.6

229 22.4 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

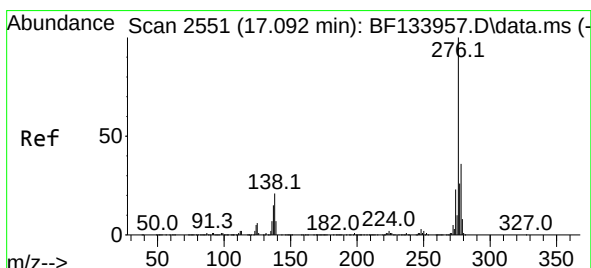
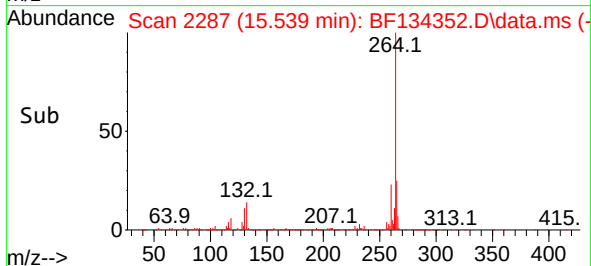
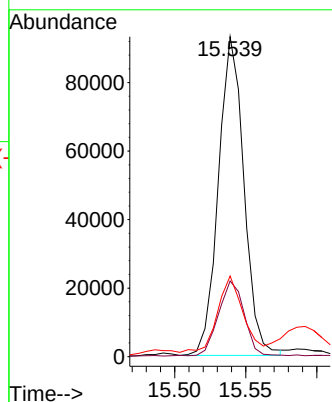
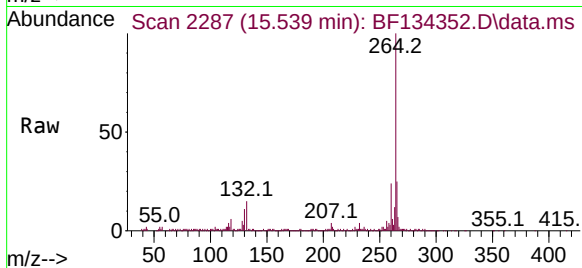
Tgt Ion:264 Resp: 116291

Ion Ratio Lower Upper

264 100

260 23.6 19.5 29.3

265 25.2 16.6 25.0#



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.862 ng

RT: 17.086 min Scan# 2550

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

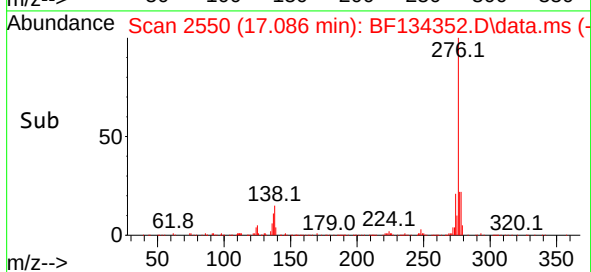
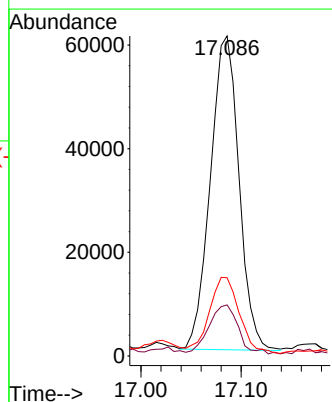
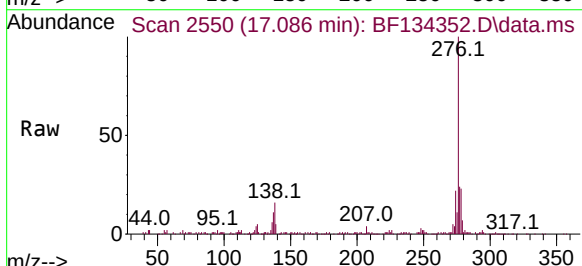
Tgt Ion:276 Resp: 119928

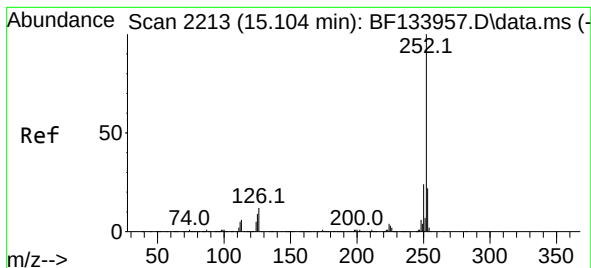
Ion Ratio Lower Upper

276 100

138 15.9 18.7 28.1#

277 25.5 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 65.625 ng

RT: 15.098 min Scan# 2212

Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

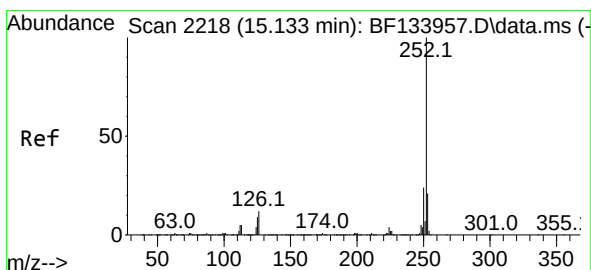
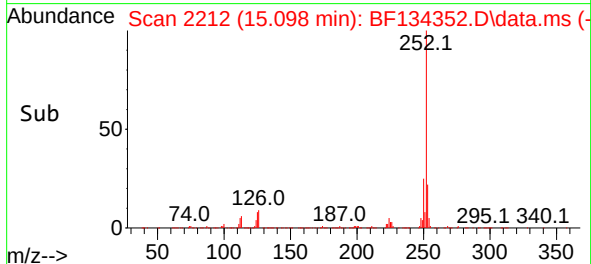
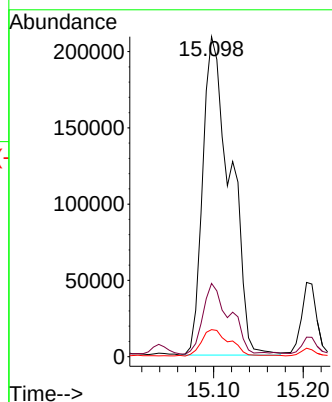
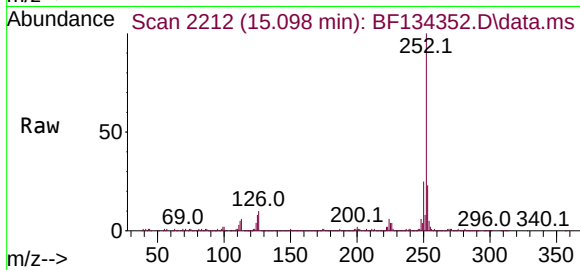
Tgt Ion:252 Resp: 448743

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

125 8.5 7.1 10.7



#89

Benzo(k)fluoranthene

Concen: 64.455 ng

RT: 15.098 min Scan# 2212

Delta R.T. -0.035 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

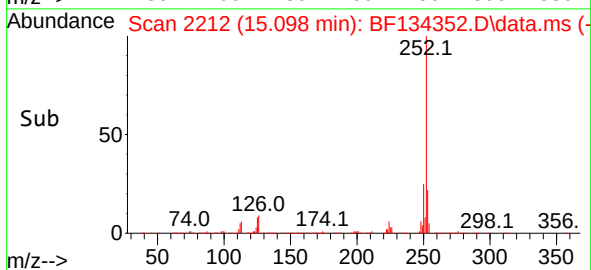
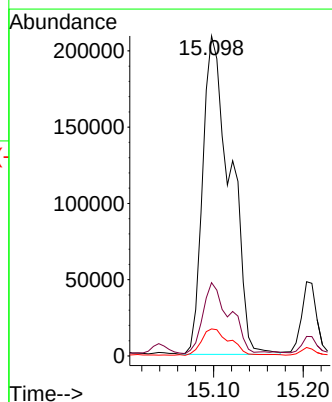
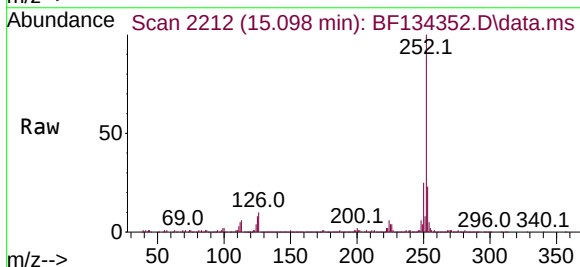
Tgt Ion:252 Resp: 448743

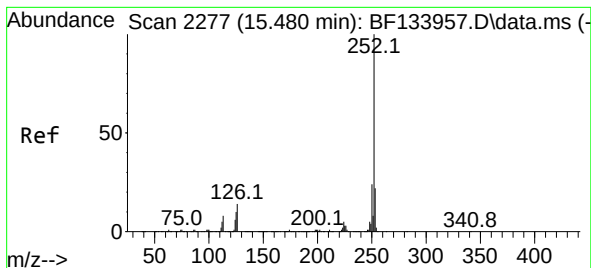
Ion Ratio Lower Upper

252 100

253 22.9 16.9 25.3

125 8.5 7.4 11.2





#90

Benzo(a)pyrene

Concen: 26.046 ng

RT: 15.410 min Scan# 21

Delta R.T. -0.071 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

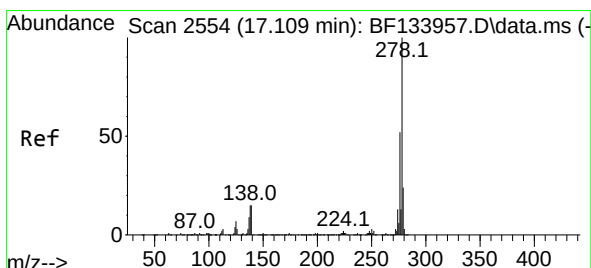
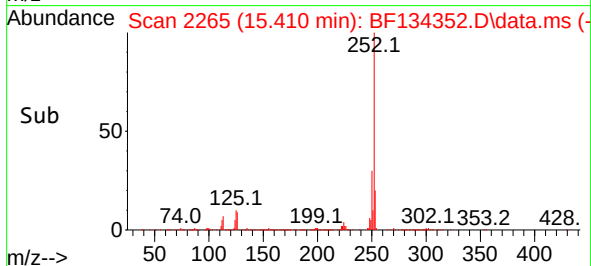
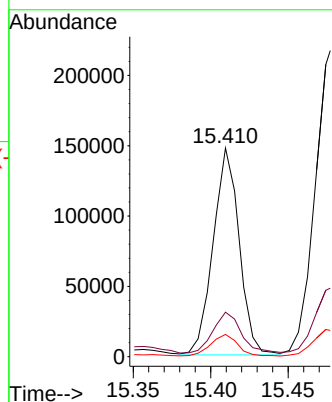
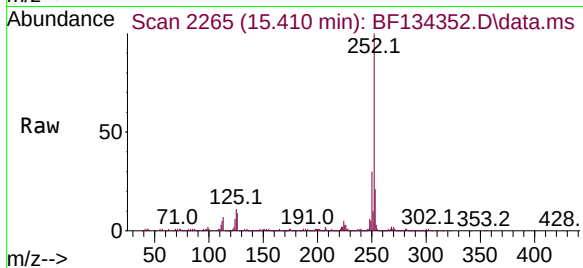
Tgt Ion:252 Resp: 172222

Ion Ratio Lower Upper

252 100

253 21.3 17.4 26.0

125 10.6 8.4 12.6



#91

Dibenzo(a,h)anthracene

Concen: 5.147 ng

RT: 17.092 min Scan# 2551

Delta R.T. -0.018 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

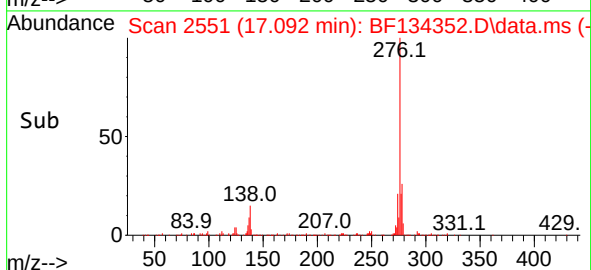
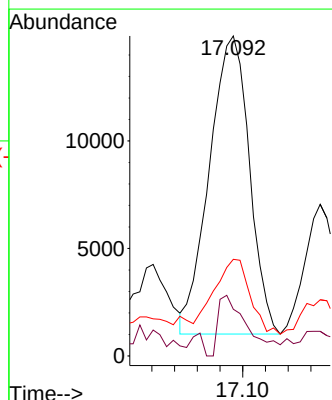
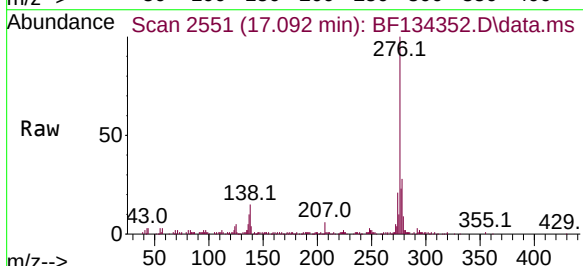
Tgt Ion:278 Resp: 33922

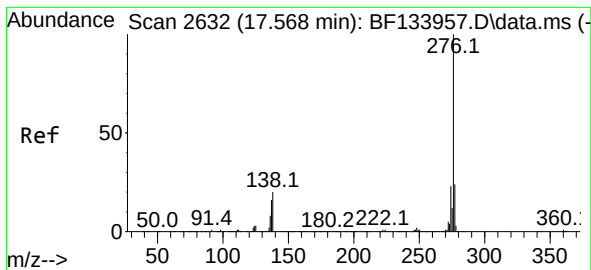
Ion Ratio Lower Upper

278 100

139 14.6 12.2 18.4

279 30.2 19.4 29.2#





#92

Benzo(g,h,i)perylene

Concen: 5.443 ng

RT: 17.809 min Scan# 20

Delta R.T. 0.241 min

Lab File: BF134352.D

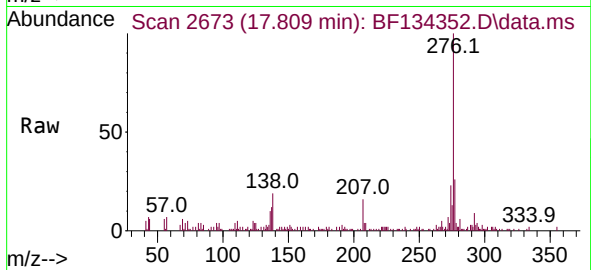
Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL



Tgt Ion:276 Resp: 36999

Ion Ratio Lower Upper

276 100

277 26.2 19.0 28.6

138 19.2 16.2 24.2

