

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050423\
 Data File : BF133243.D
 Acq On : 04 May 2023 21:38
 Operator : CG\JU
 Sample : 02588-15
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PILE-B-UNK-05022023

Quant Time: May 05 05:32:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 04 12:22:53 2023
 Response via : Initial Calibration

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

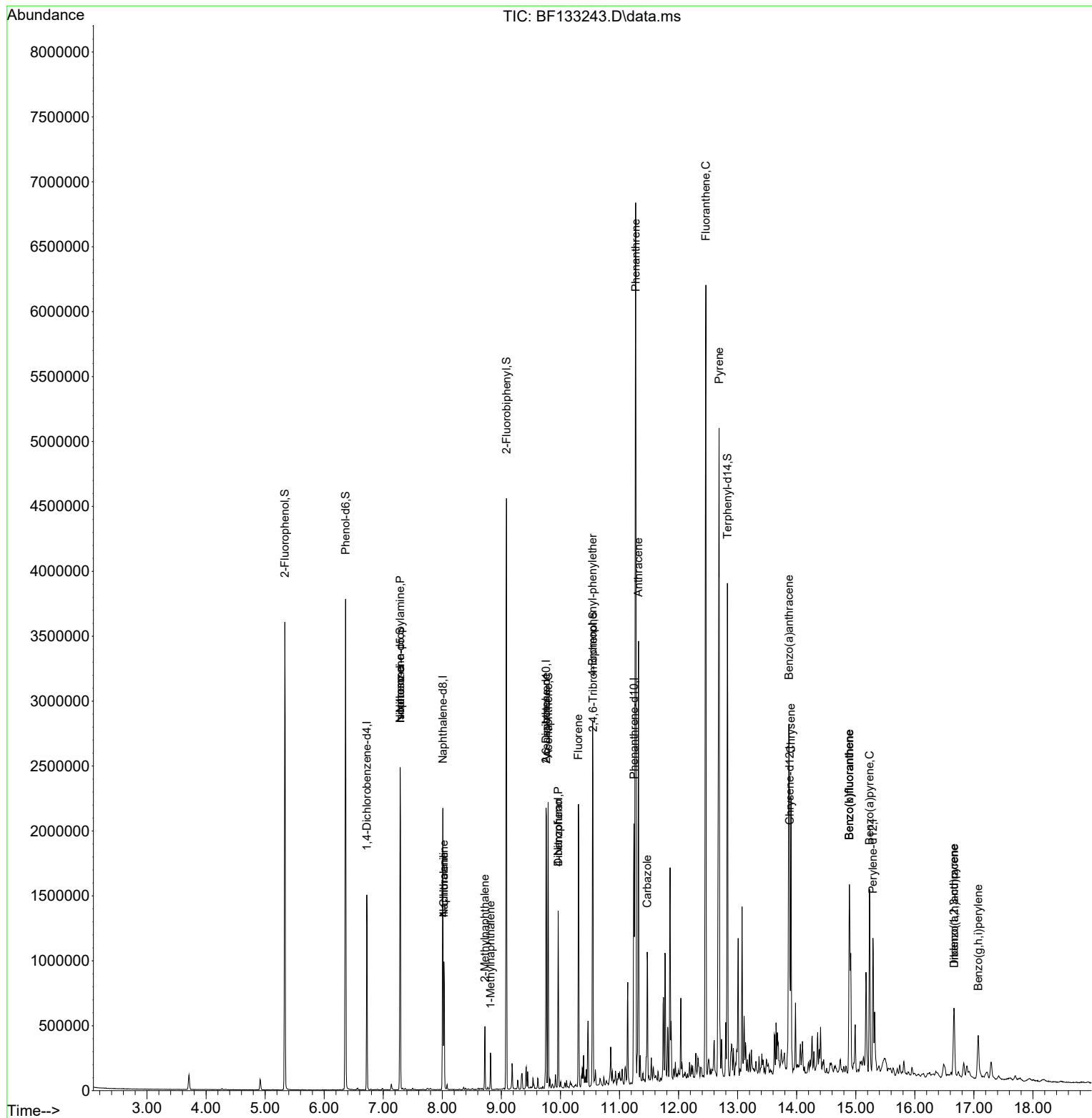
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.722	152	207614	20.000	ng	0.00
21) Naphthalene-d8	8.010	136	843241	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	446154	20.000	ng	-0.01
64) Phenanthrene-d10	11.245	188	800476	20.000	ng	0.00
76) Chrysene-d12	13.880	240	381947	20.000	ng	0.00
86) Perylene-d12	15.292	264	442751	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	1026637	74.699	ng	0.00
7) Phenol-d6	6.363	99	1266745	74.257	ng	-0.01
23) Nitrobenzene-d5	7.286	82	765666	49.011	ng	-0.01
42) 2,4,6-Tribromophenol	10.551	330	305743	68.141	ng	0.00
45) 2-Fluorobiphenyl	9.086	172	1299055	48.712	ng	0.00
79) Terphenyl-d14	12.827	244	1265203	57.130	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.275	77	704	Below Cal	#	75
19) n-Nitroso-di-n-propyla...	7.286	70	100136	9.429	ng	# 80
25) Isophorone	7.286	82	762403	25.704	ng	# 63
31) Naphthalene	8.028	128	384646	9.124	ng	# 99
33) 4-Chloroaniline	8.028	127	50491	2.964	ng	# 32
37) 2-Methylnaphthalene	8.722	142	114181	3.961	ng	# 99
38) 1-Methylnaphthalene	8.816	142	70008	2.596	ng	# 96
51) 2,6-Dinitrotoluene	9.757	165	63123	9.015	ng	# 25
52) Acenaphthene	9.792	154	394737	14.245	ng	# 98
55) Dibenzofuran	9.963	168	431067	11.404	ng	# 99
56) 4-Nitrophenol	9.963	139	165606	25.682	ng	# 17
58) Fluorene	10.304	166	573531	20.709	ng	# 100
67) 4-Bromophenyl-phenylether	10.545	248	20022	2.306	ng	# 1
71) Phenanthrene	11.274	178	3057267	71.061	ng	# 98
72) Anthracene	11.322	178	1180737	26.817	ng	# 99
73) Carbazole	11.469	167	379947	9.691	ng	# 99
75) Fluoranthene	12.463	202	2757996	63.874	ng	# 98
78) Pyrene	12.686	202	2213457	67.604	ng	# 98
81) Benzo(a)anthracene	13.868	228	867809	33.040	ng	# 99
83) Chrysene	13.904	228	677042	25.783	ng	# 98
87) Indeno(1,2,3-cd)pyrene	16.662	276	328767	13.054	ng	# 92
88) Benzo(b)fluoranthene	14.892	252	1081280	38.388	ng	# 98
89) Benzo(k)fluoranthene	14.892	252	1081280	38.725	ng	# 98
90) Benzo(a)pyrene	15.233	252	627646	24.481	ng	# 98
91) Dibenzo(a,h)anthracene	16.668	278	81129	3.862	ng	# 97
92) Benzo(g,h,i)perylene	17.074	276	243909	11.762	ng	# 97

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

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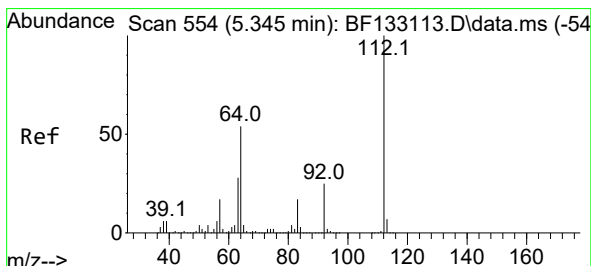
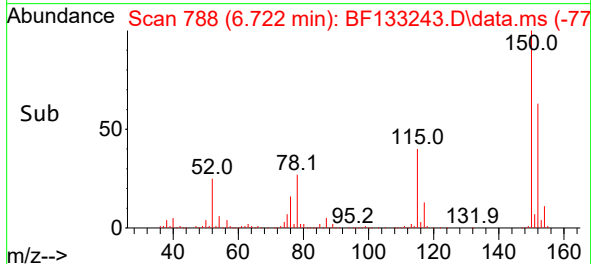
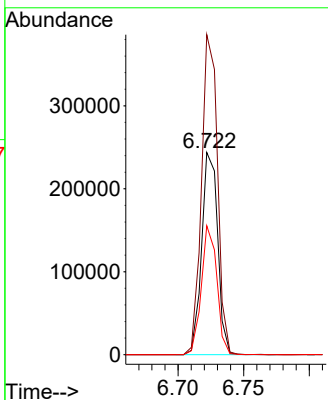
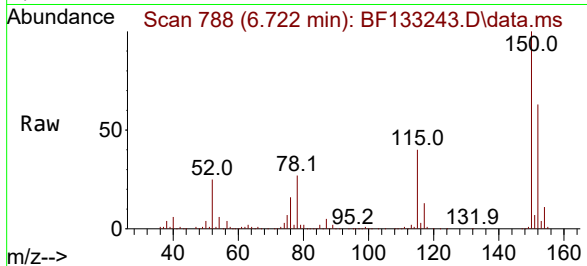




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.722 min Scan# 791
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

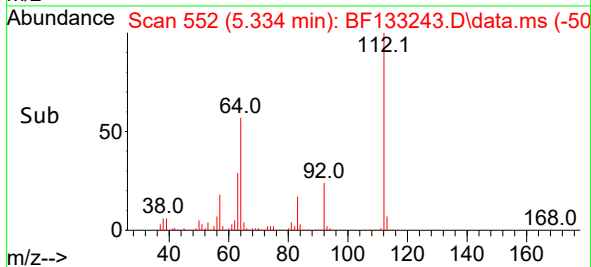
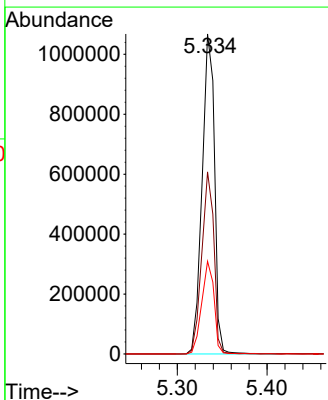
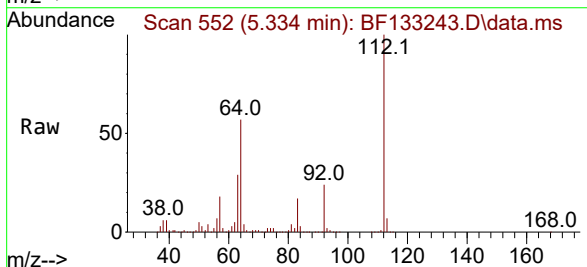
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

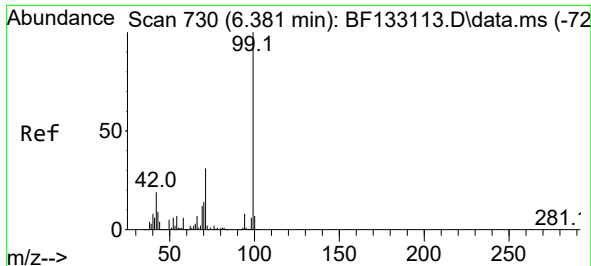
Tgt Ion:152 Resp: 207614
Ion Ratio Lower Upper
152 100
150 158.3 124.8 187.2
115 63.8 49.9 74.9



#5
2-Fluorophenol
Concen: 74.699 ng
RT: 5.334 min Scan# 552
Delta R.T. -0.000 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:112 Resp: 1026637
Ion Ratio Lower Upper
112 100
64 56.9 46.8 70.2
63 29.0 23.8 35.8

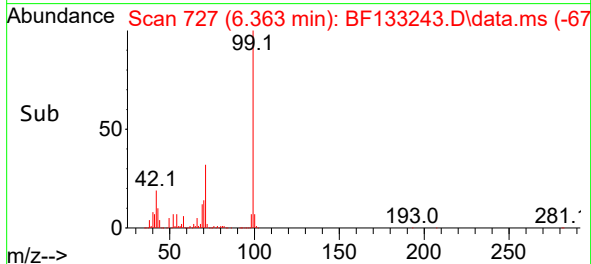
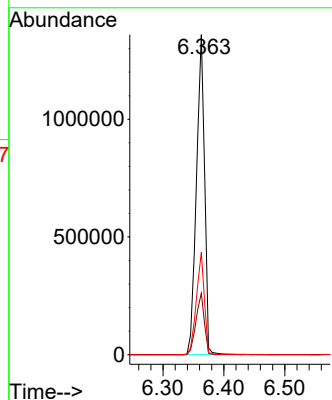
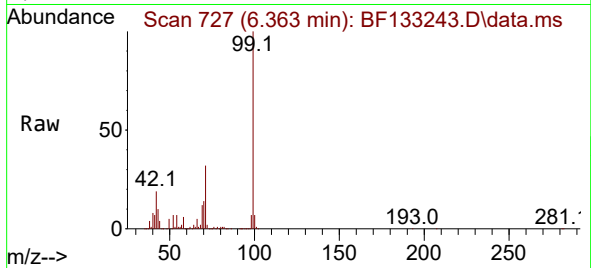




#7
Phenol-d6
Concen: 74.257 ng
RT: 6.363 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

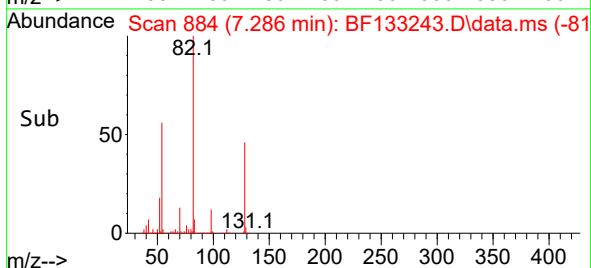
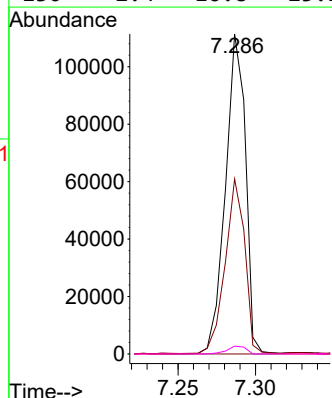
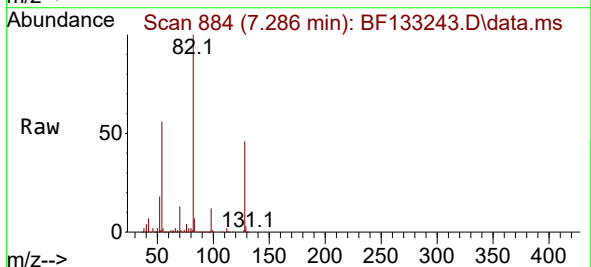
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

Tgt Ion: 99 Resp: 1266745
Ion Ratio Lower Upper
99 100
42 19.2 16.3 24.5
71 32.0 25.6 38.4



#19
n-Nitroso-di-n-propylamine
Concen: 9.429 ng
RT: 7.286 min Scan# 884
Delta R.T. 0.135 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion: 70 Resp: 100136
Ion Ratio Lower Upper
70 100
42 54.7 51.8 77.6
101 0.0 8.0 12.0#
130 2.4 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.010 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023

Tgt Ion:136 Resp: 843241

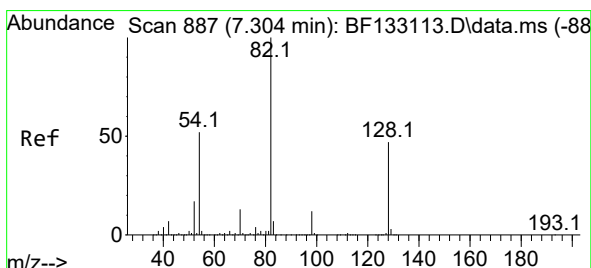
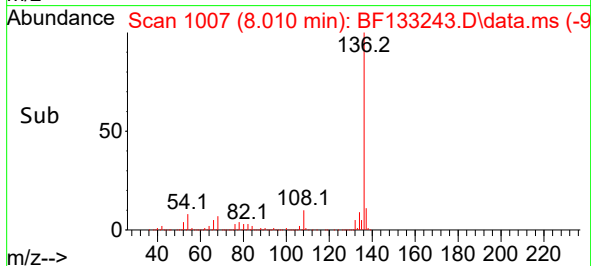
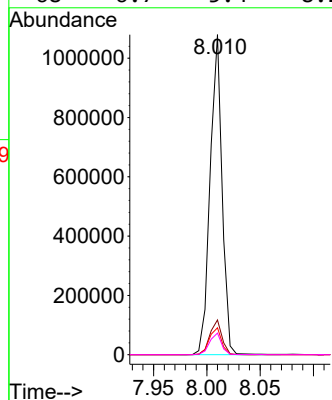
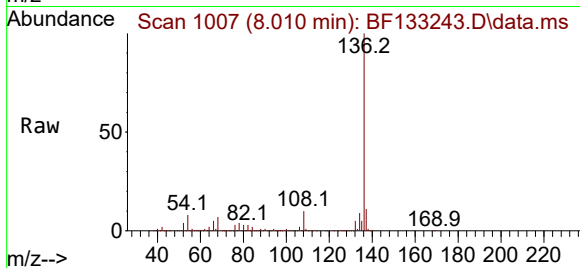
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 8.4 7.0 10.4

68 6.7 5.4 8.2



#23

Nitrobenzene-d5

Concen: 49.011 ng

RT: 7.286 min Scan# 884

Delta R.T. -0.012 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

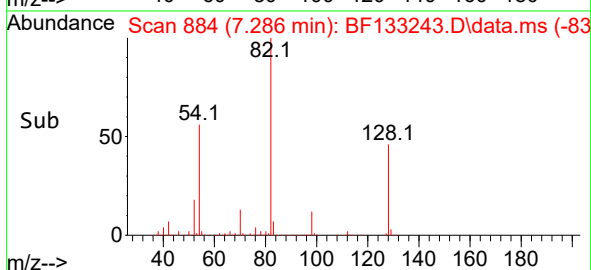
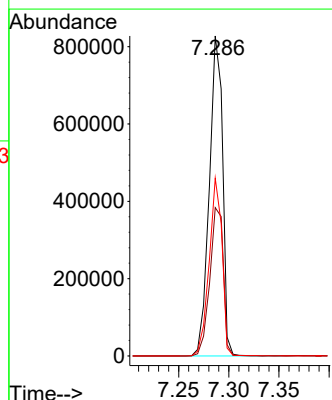
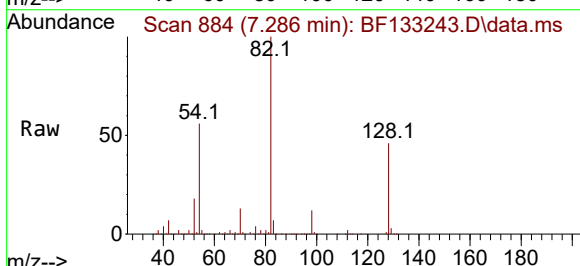
Tgt Ion: 82 Resp: 765666

Ion Ratio Lower Upper

82 100

128 46.3 37.7 56.5

54 55.5 43.0 64.4

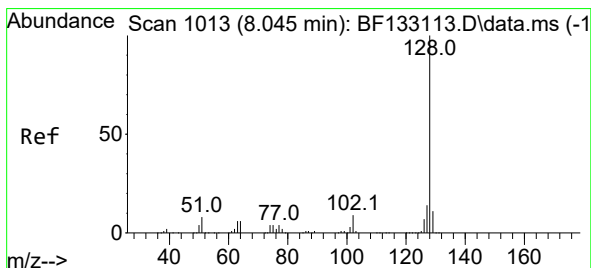
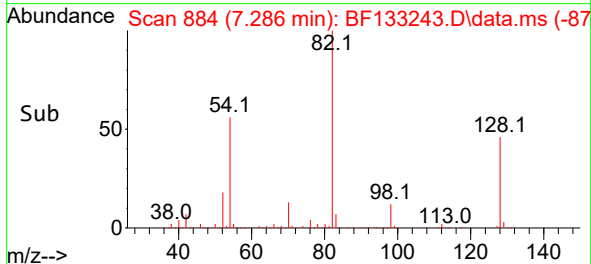
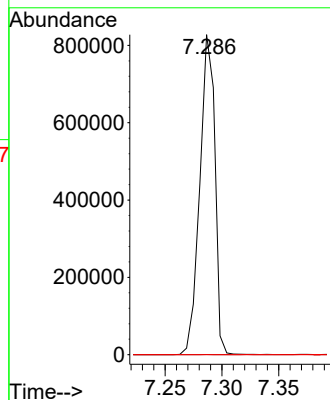
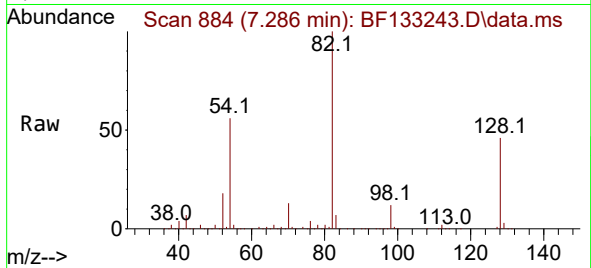




#25
Isophorone
Concen: 25.704 ng
RT: 7.286 min Scan# 81
Delta R.T. -0.271 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

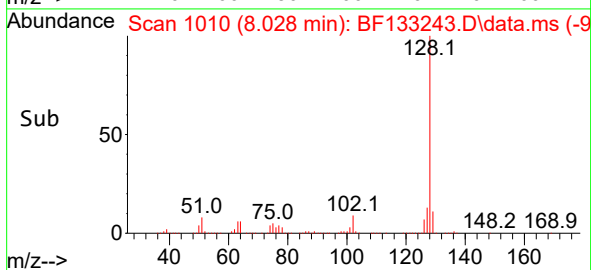
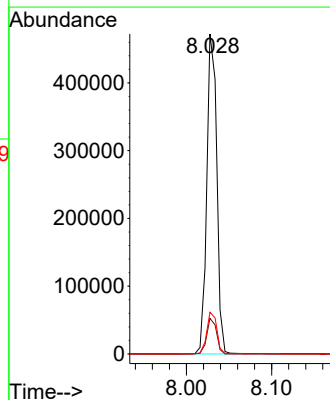
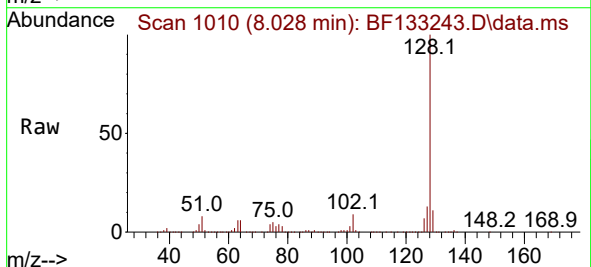
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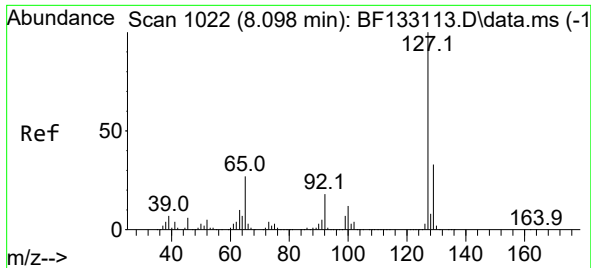
Tgt Ion: 82 Resp: 762403
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.0#
138 0.0 16.0 24.0#



#31
Naphthalene
Concen: 9.124 ng
RT: 8.028 min Scan# 1010
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:128 Resp: 384646
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 13.0 10.7 16.1

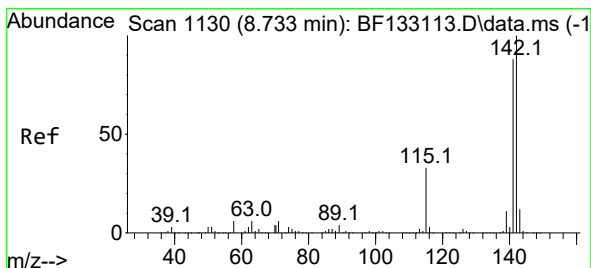
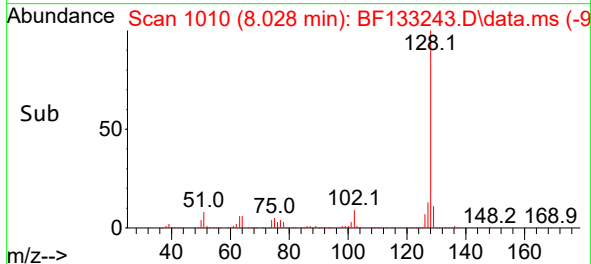
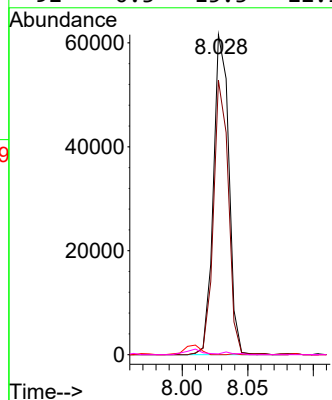
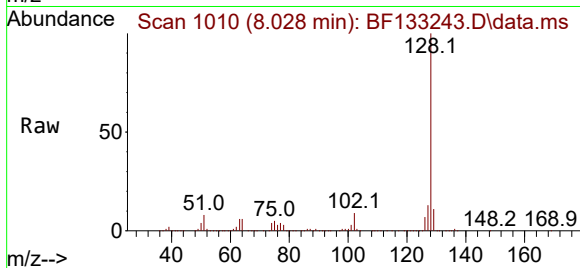




#33
4-Chloroaniline
Concen: 2.964 ng
RT: 8.028 min Scan# 1112
Delta R.T. -0.059 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

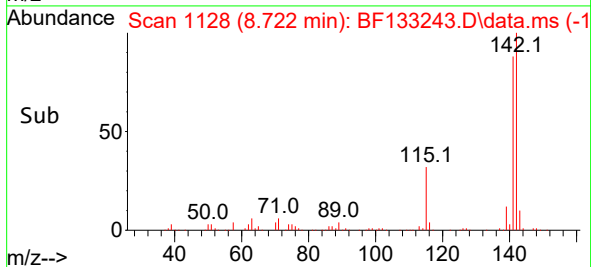
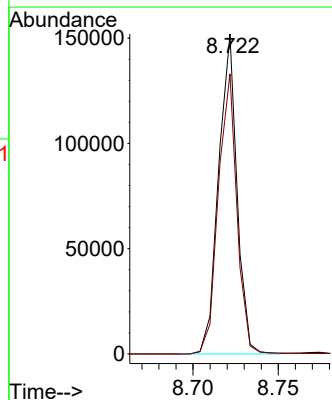
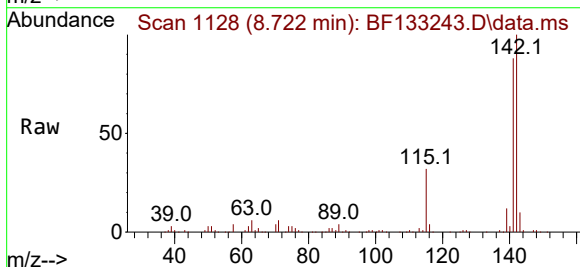
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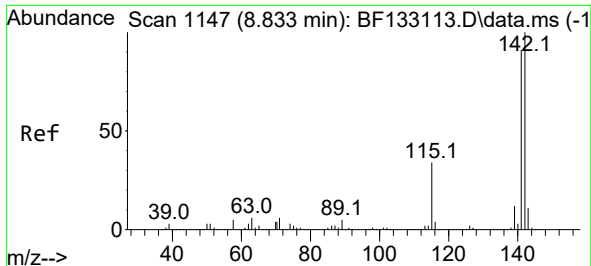
Tgt Ion:127	Resp:	50491
Ion Ratio	Lower	Upper
127	100	
129	85.7	25.8 38.8#
65	0.0	23.6 35.4#
92	0.3	15.3 22.9#



#37
2-Methylnaphthalene
Concen: 3.961 ng
RT: 8.722 min Scan# 1128
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:142	Resp:	114181
Ion Ratio	Lower	Upper
142	100	
141	87.5	69.4 104.0





#38

1-Methylnaphthalene

Concen: 2.596 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.012 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

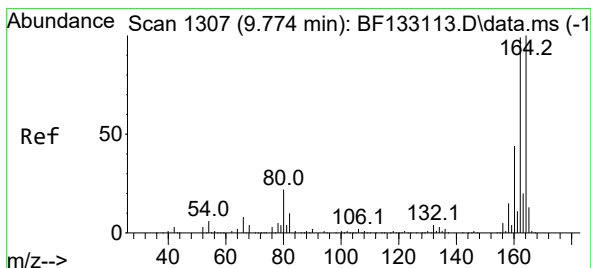
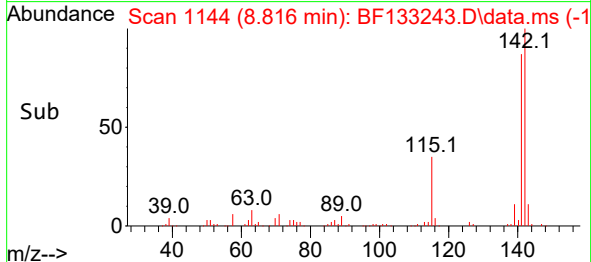
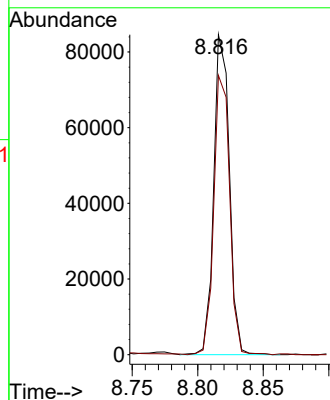
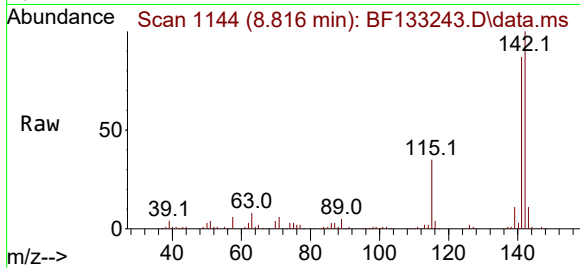
PILE-B-UNK-05022023

Tgt Ion:142 Resp: 70008

Ion Ratio Lower Upper

142 100

141 87.3 73.1 109.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.757 min Scan# 1304

Delta R.T. -0.012 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

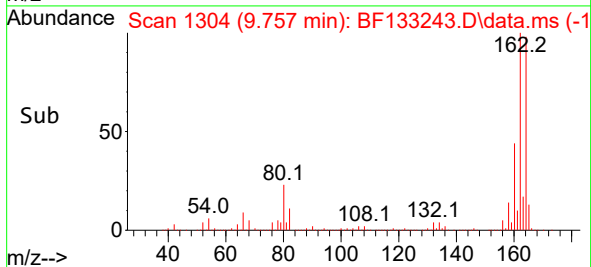
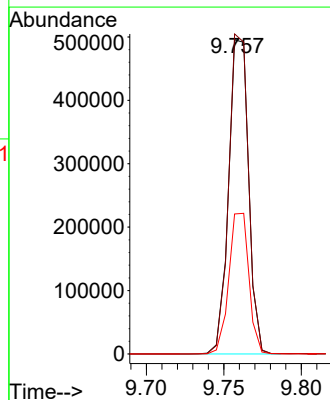
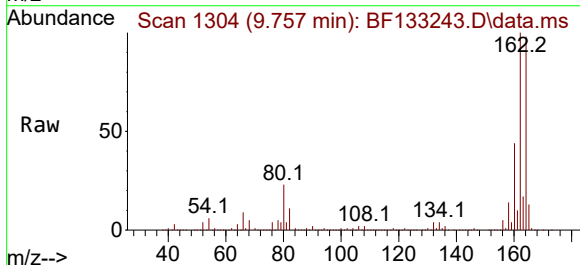
Tgt Ion:164 Resp: 446154

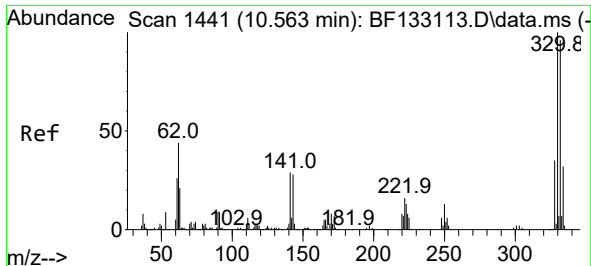
Ion Ratio Lower Upper

164 100

162 101.9 78.7 118.1

160 44.6 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 68.141 ng

RT: 10.551 min Scan# 1441

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023

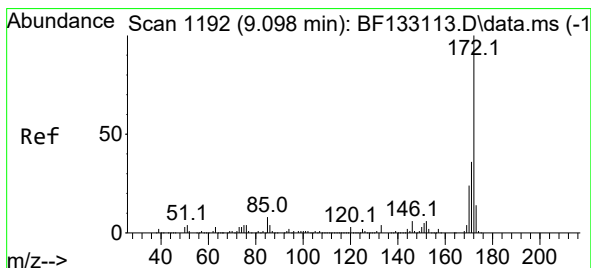
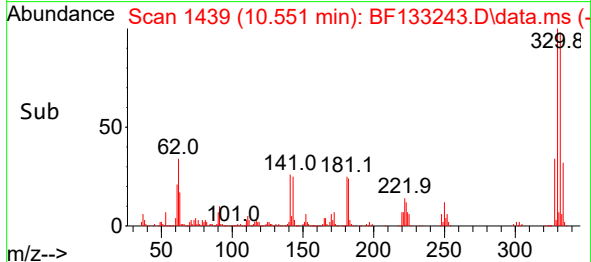
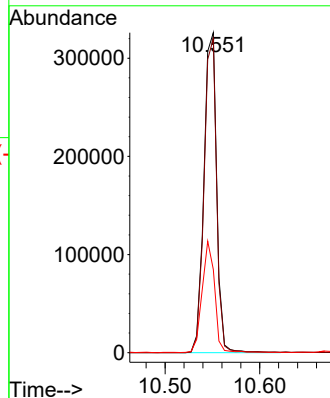
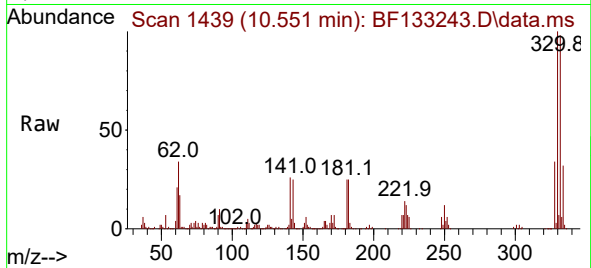
Tgt Ion:330 Resp: 305743

Ion Ratio Lower Upper

330 100

332 96.6 77.1 115.7

141 34.1 25.8 38.8



#45

2-Fluorobiphenyl

Concen: 48.712 ng

RT: 9.086 min Scan# 1190

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

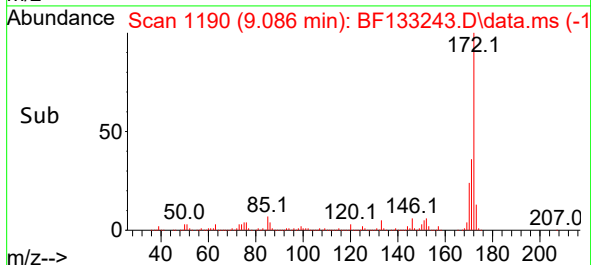
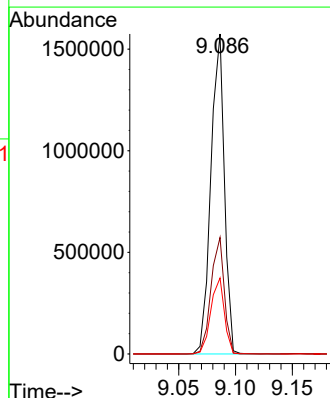
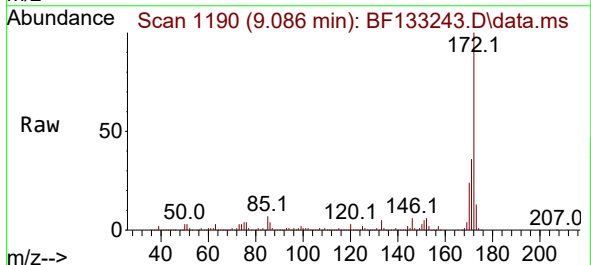
Tgt Ion:172 Resp: 1299055

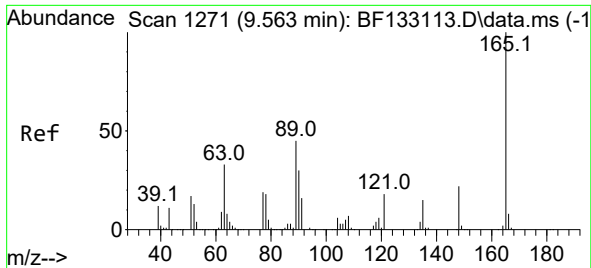
Ion Ratio Lower Upper

172 100

171 36.4 28.8 43.2

170 23.7 19.4 29.2

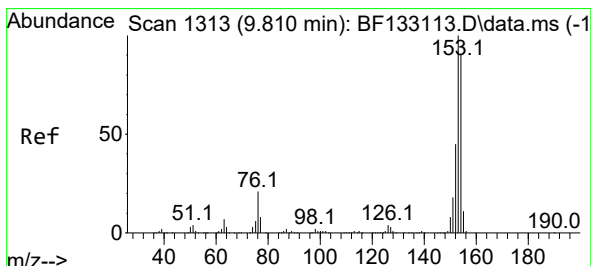
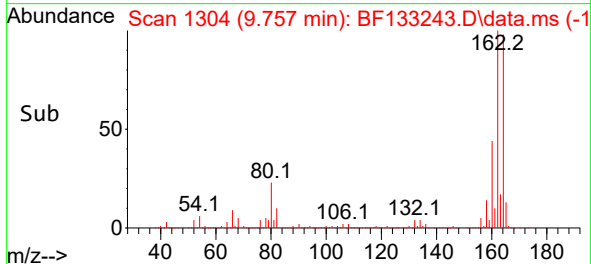
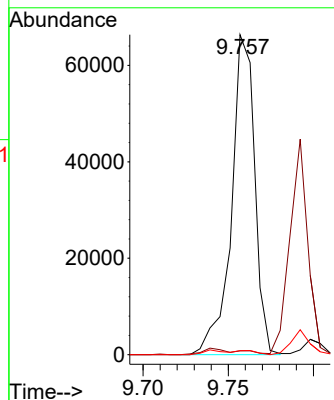
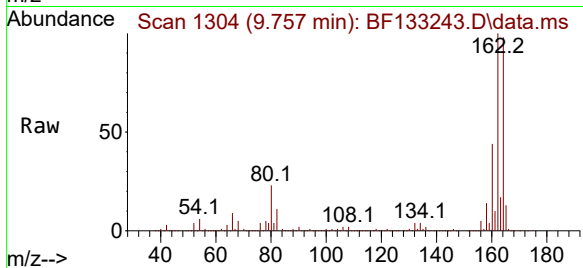




#51
2,6-Dinitrotoluene
Concen: 9.015 ng
RT: 9.757 min Scan# 11
Delta R.T. 0.200 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

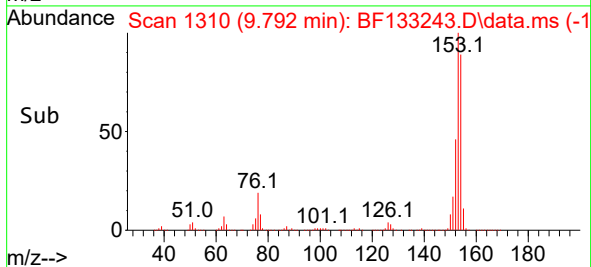
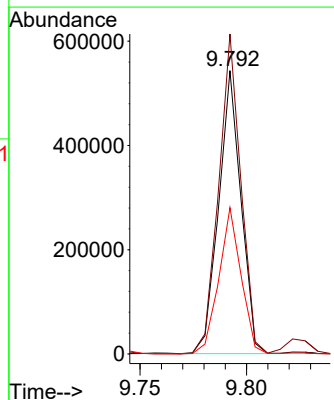
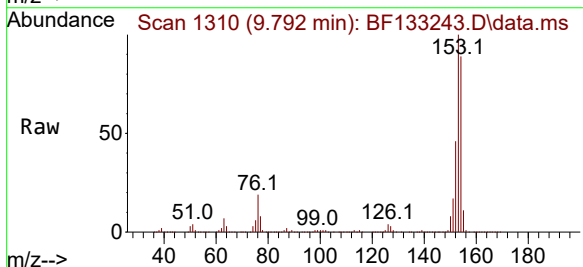
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

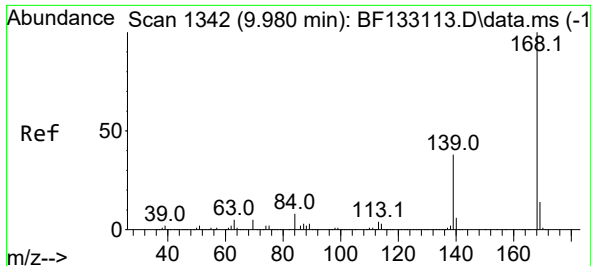
Tgt Ion:165 Resp: 63123
Ion Ratio Lower Upper
165 100
63 1.2 45.9 68.9#
89 1.2 44.0 66.0#



#52
Acenaphthene
Concen: 14.245 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:154 Resp: 394737
Ion Ratio Lower Upper
154 100
153 112.9 89.0 133.6
152 51.6 40.4 60.6





#55

Dibenzenofuran

Concen: 11.404 ng

RT: 9.963 min Scan# 1339

Delta R.T. -0.012 min

Lab File: BF133243.D

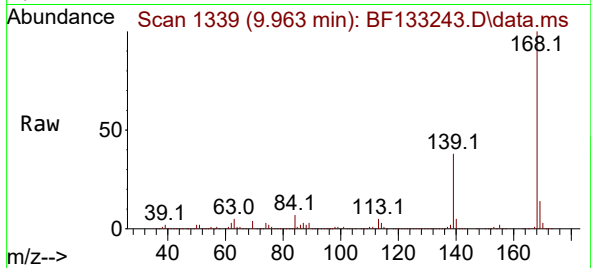
Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023



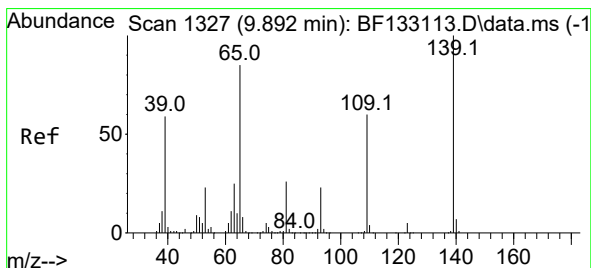
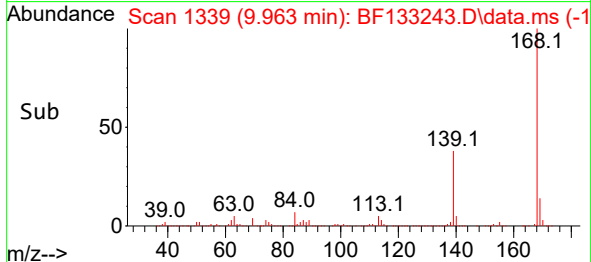
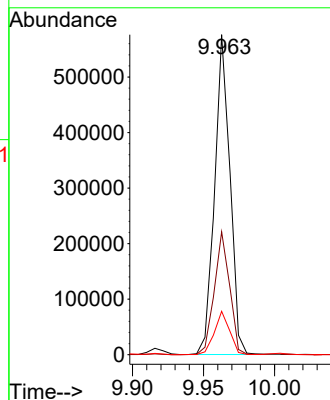
Tgt Ion:168 Resp: 431067

Ion Ratio Lower Upper

168 100

139 38.4 29.8 44.8

169 13.6 10.8 16.2



#56

4-Nitrophenol

Concen: 25.682 ng

RT: 9.963 min Scan# 1339

Delta R.T. 0.076 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

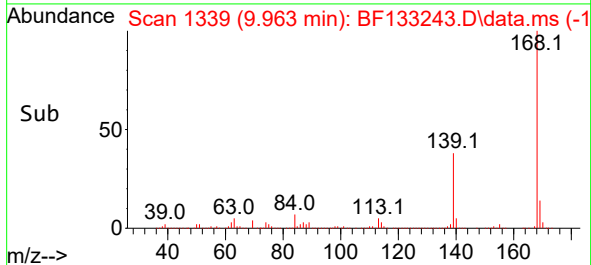
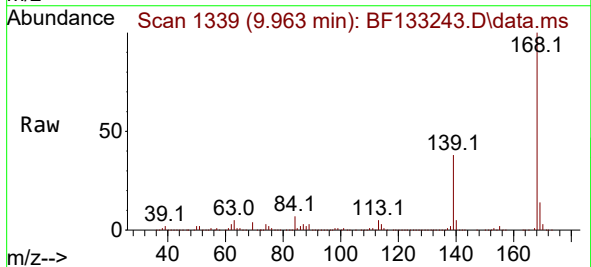
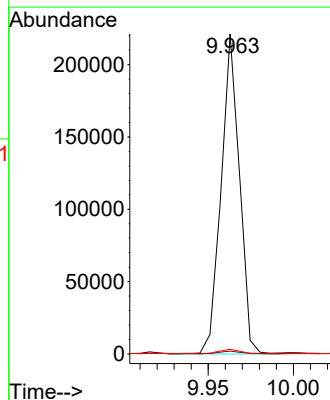
Tgt Ion:139 Resp: 165606

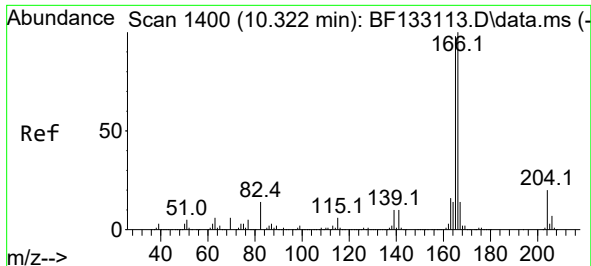
Ion Ratio Lower Upper

139 100

109 0.9 39.4 79.4#

65 1.4 57.5 97.5#

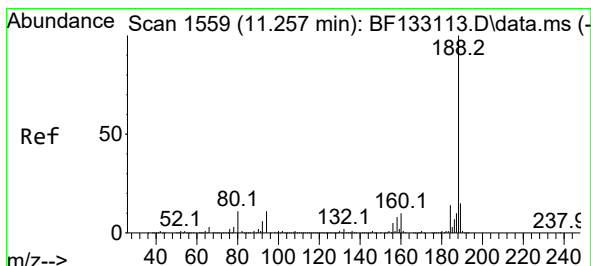
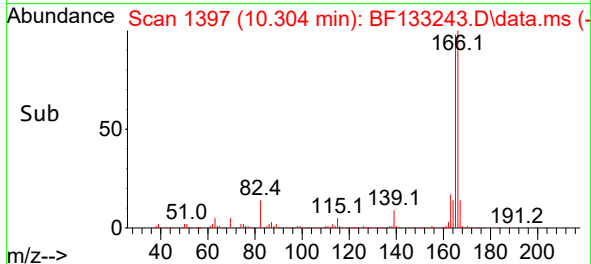
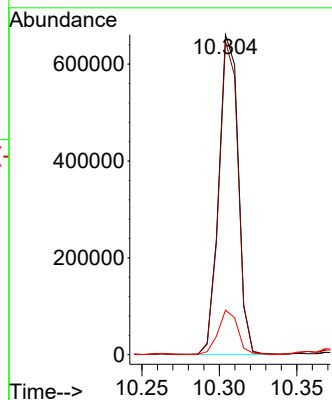
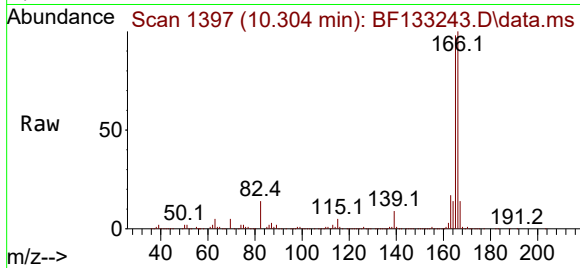




#58
Fluorene
Concen: 20.709 ng
RT: 10.304 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

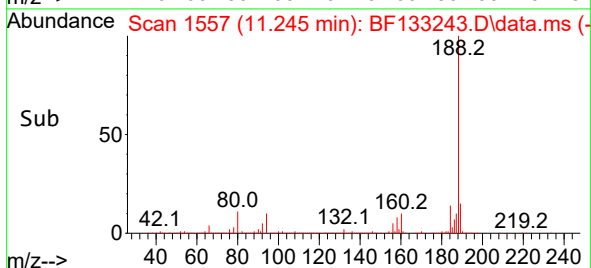
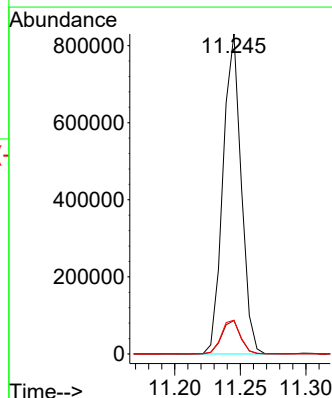
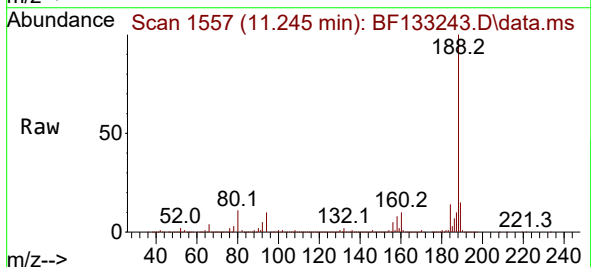
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

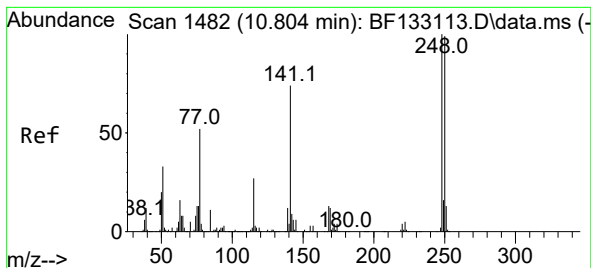
Tgt Ion:166 Resp: 573531
Ion Ratio Lower Upper
166 100
165 98.0 78.6 117.8
167 13.9 11.0 16.4



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.245 min Scan# 1557
Delta R.T. -0.000 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:188 Resp: 800476
Ion Ratio Lower Upper
188 100
94 10.4 9.7 14.5
80 10.6 10.4 15.6

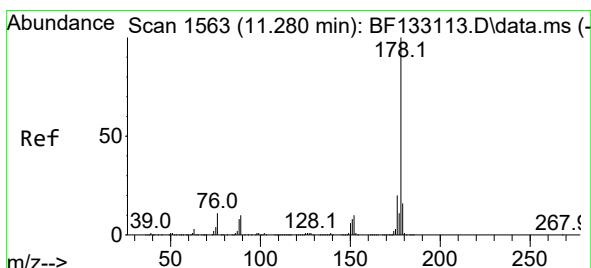
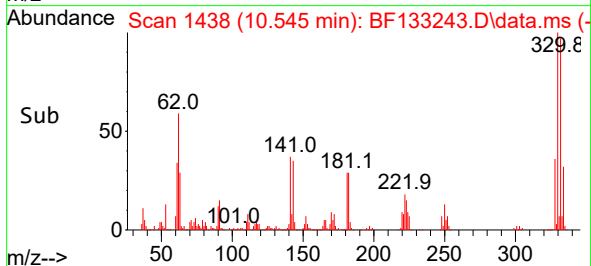
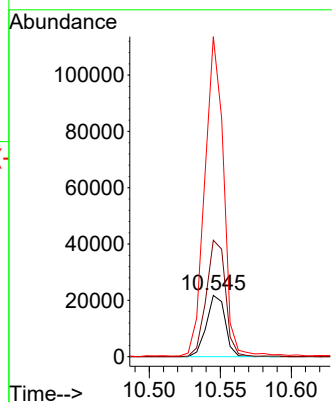
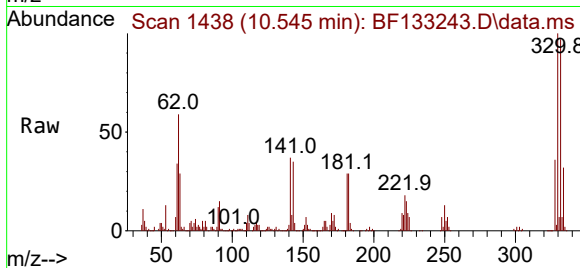




#67
4-Bromophenyl-phenylether
Concen: 2.306 ng
RT: 10.545 min Scan# 1482
Delta R.T. -0.253 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

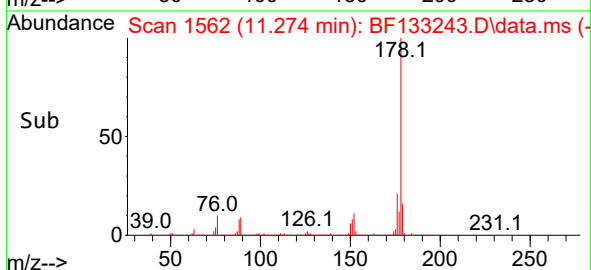
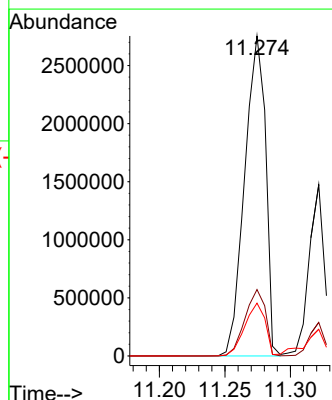
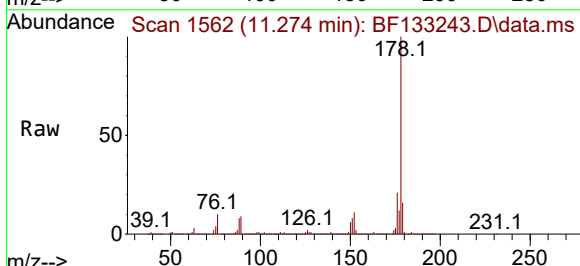
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

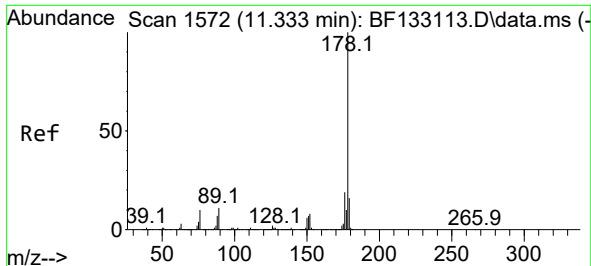
Tgt Ion:248 Resp: 20022
Ion Ratio Lower Upper
248 100
250 189.9 78.7 118.1#
141 521.9 56.3 84.5#



#71
Phenanthrene
Concen: 71.061 ng
RT: 11.274 min Scan# 1562
Delta R.T. -0.000 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:178 Resp: 3057267
Ion Ratio Lower Upper
178 100
176 20.8 15.9 23.9
179 16.5 12.5 18.7

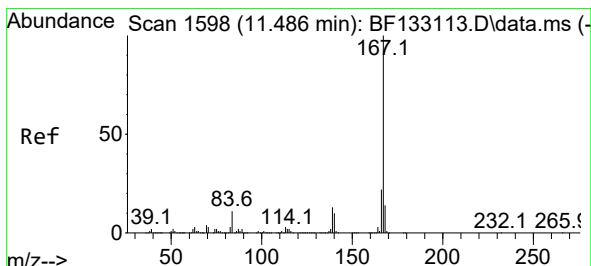
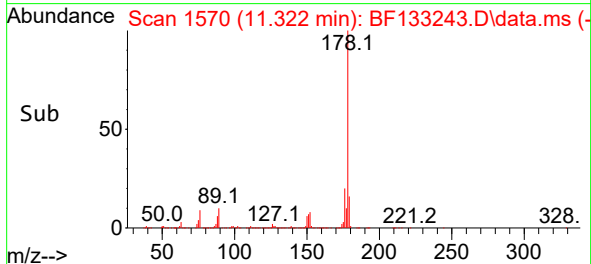
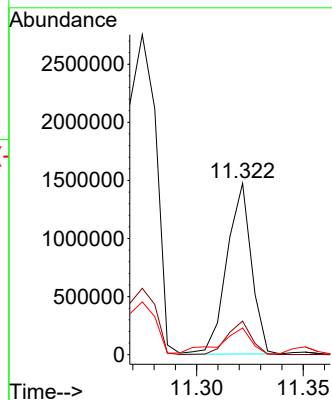
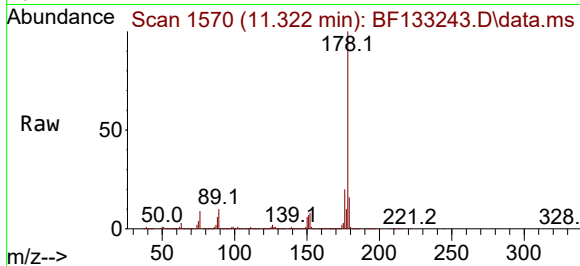




#72
 Anthracene
 Concen: 26.817 ng
 RT: 11.322 min Scan# 1570
 Delta R.T. -0.006 min
 Lab File: BF133243.D
 Acq: 04 May 2023 21:38

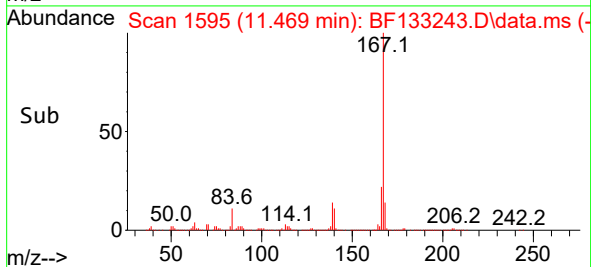
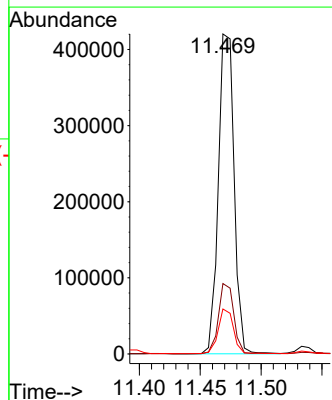
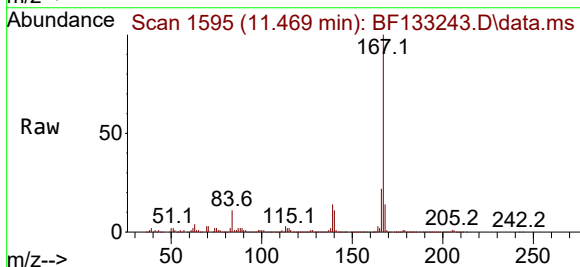
Instrument :
 BNA_F
 ClientSampleId :
 PILE-B-UNK-05022023

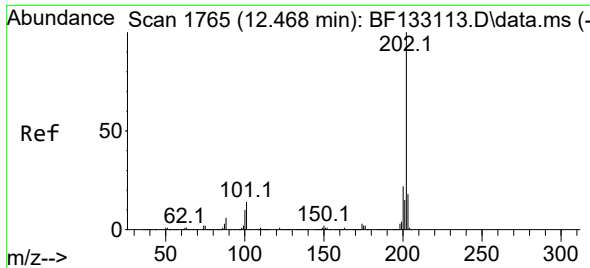
Tgt Ion:178 Resp: 1180737
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.4 23.0
 179 15.6 12.4 18.6



#73
 Carbazole
 Concen: 9.691 ng
 RT: 11.469 min Scan# 1595
 Delta R.T. -0.012 min
 Lab File: BF133243.D
 Acq: 04 May 2023 21:38

Tgt Ion:167 Resp: 379947
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.4 26.0
 139 14.0 10.6 16.0

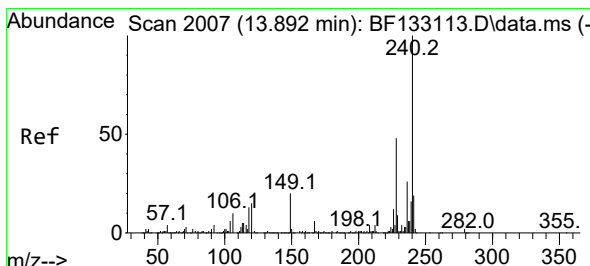
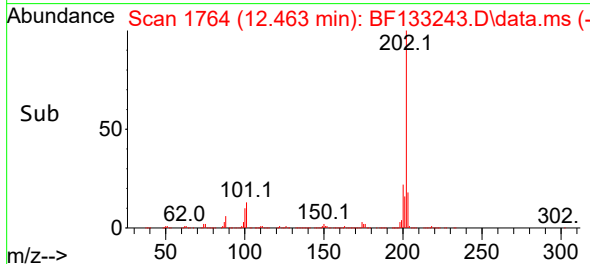
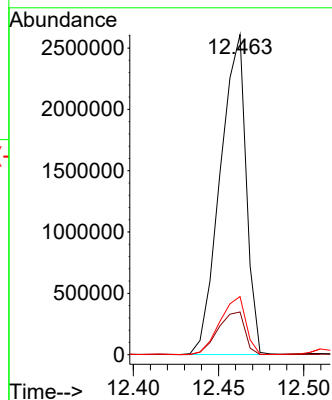
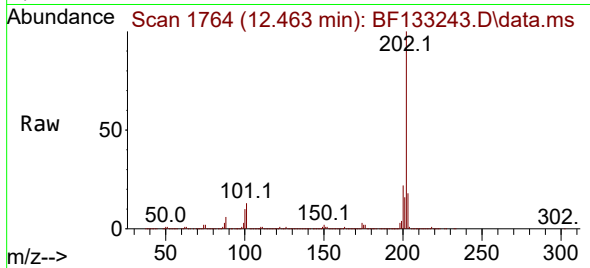




#75
Fluoranthene
Concen: 63.874 ng
RT: 12.463 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

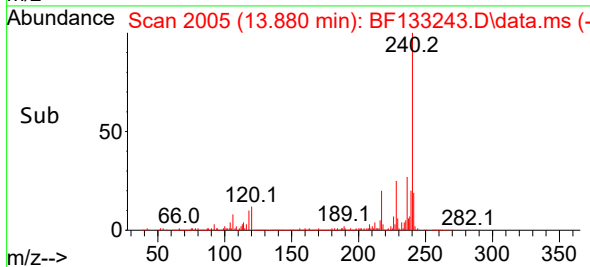
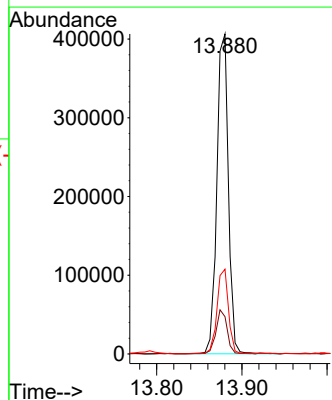
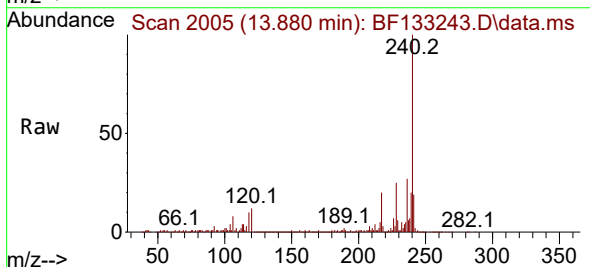
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

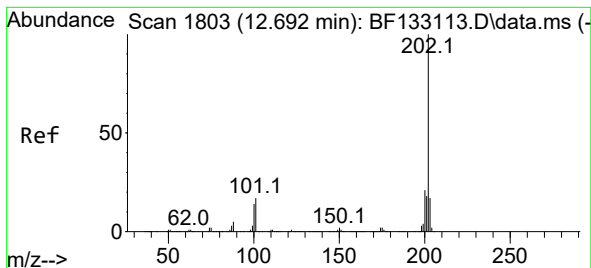
Tgt Ion:202 Resp: 2757996
Ion Ratio Lower Upper
202 100
101 13.4 0.0 35.3
203 18.1 0.0 38.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.880 min Scan# 2005
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:240 Resp: 381947
Ion Ratio Lower Upper
240 100
120 11.7 10.5 15.7
236 26.5 21.5 32.3





#78

Pyrene

Concen: 67.604 ng

RT: 12.686 min Scan# 1802

Delta R.T. -0.000 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023

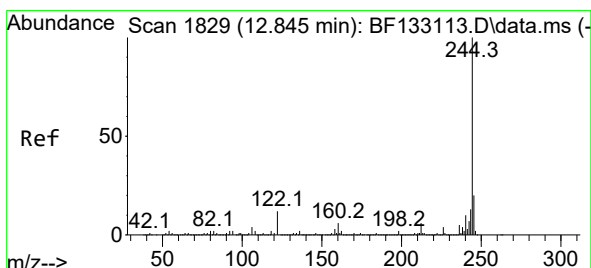
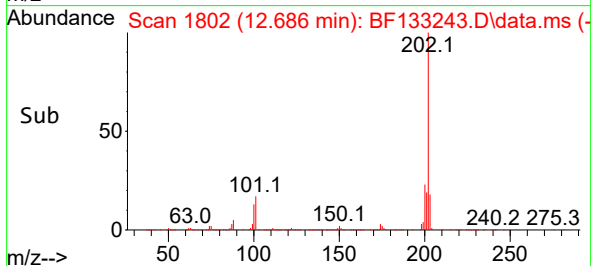
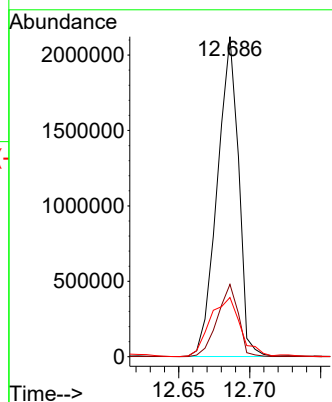
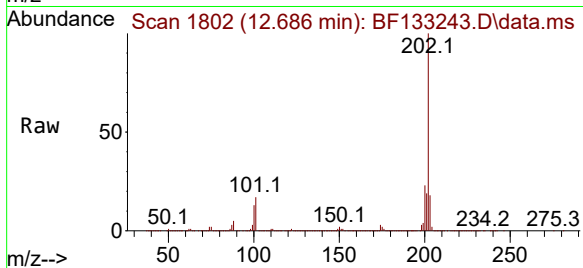
Tgt Ion:202 Resp: 2213457

Ion Ratio Lower Upper

202 100

200 22.6 17.1 25.7

203 18.5 14.1 21.1



#79

Terphenyl-d14

Concen: 57.130 ng

RT: 12.827 min Scan# 1826

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

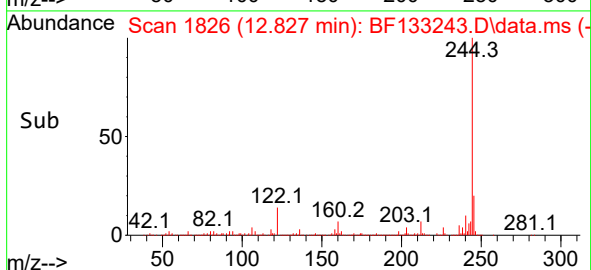
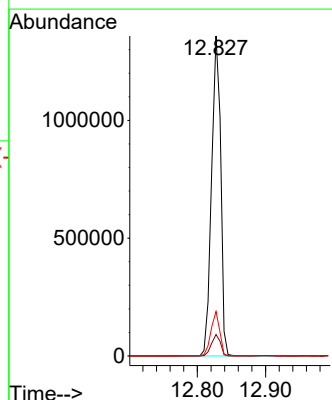
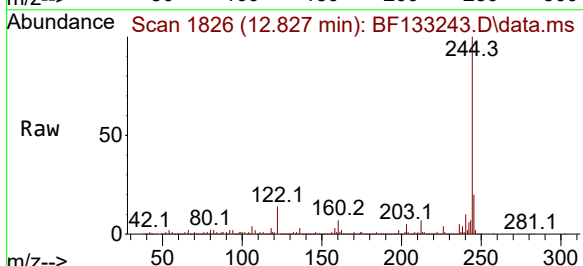
Tgt Ion:244 Resp: 1265203

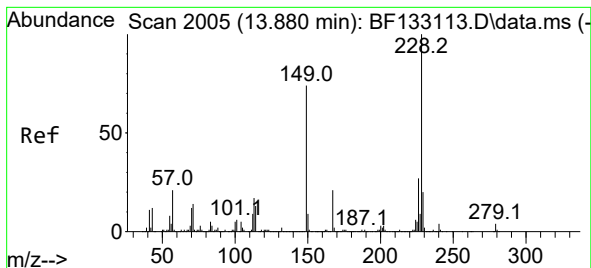
Ion Ratio Lower Upper

244 100

212 6.7 5.1 7.7

122 13.9 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 33.040 ng

RT: 13.868 min Scan# 2009

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023

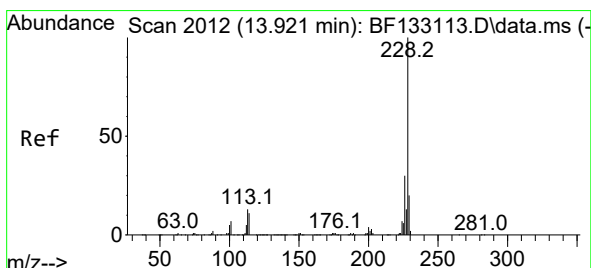
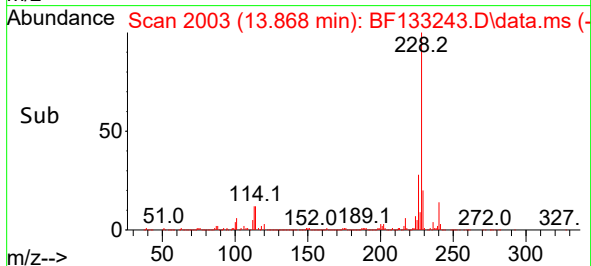
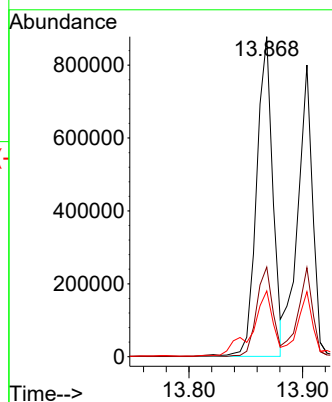
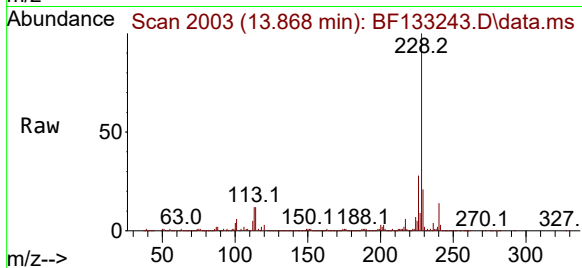
Tgt Ion:228 Resp: 867809

Ion Ratio Lower Upper

228 100

226 28.0 22.2 33.4

229 20.5 16.0 24.0



#83

Chrysene

Concen: 25.783 ng

RT: 13.904 min Scan# 2009

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

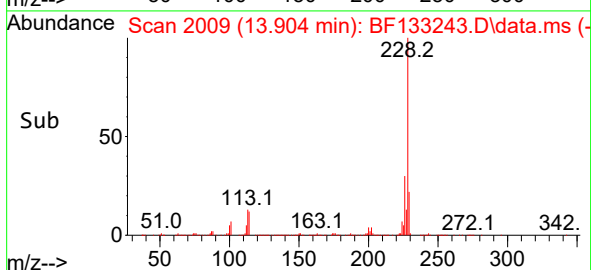
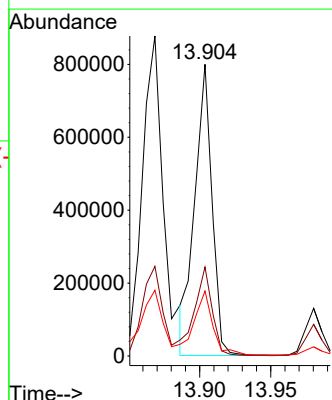
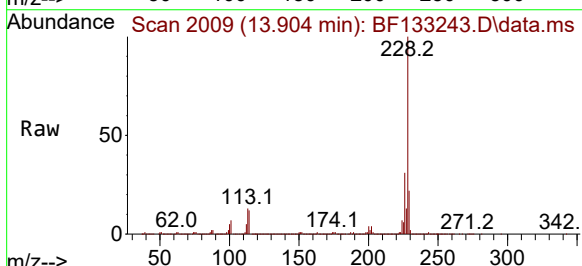
Tgt Ion:228 Resp: 677042

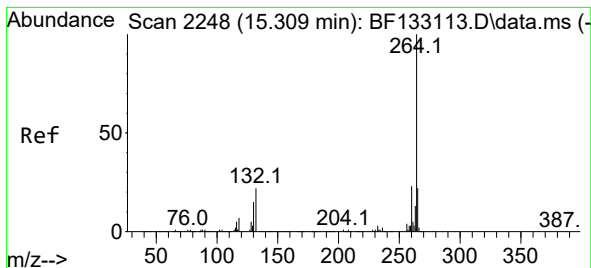
Ion Ratio Lower Upper

228 100

226 30.5 24.7 37.1

229 22.3 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.292 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

Instrument :

BNA_F

ClientSampleId :

PILE-B-UNK-05022023

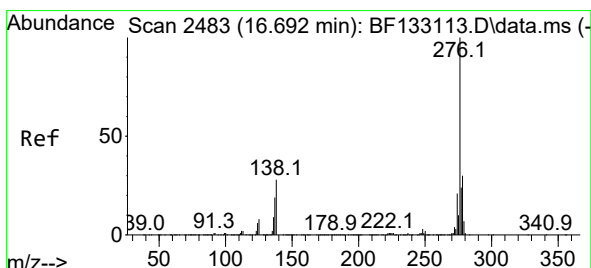
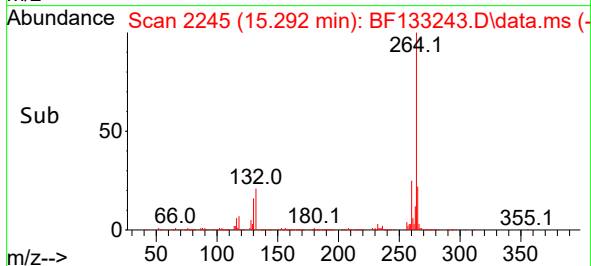
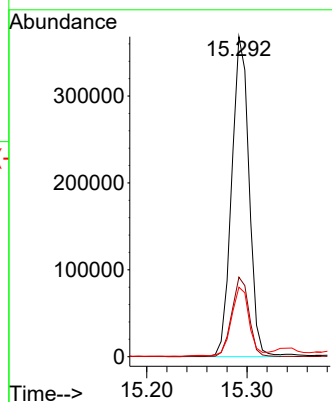
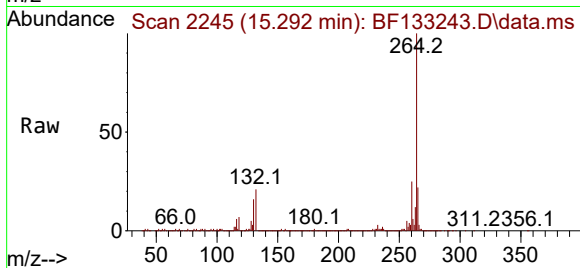
Tgt Ion:264 Resp: 442751

Ion Ratio Lower Upper

264 100

260 24.9 18.8 28.2

265 21.7 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.054 ng

RT: 16.662 min Scan# 2478

Delta R.T. -0.012 min

Lab File: BF133243.D

Acq: 04 May 2023 21:38

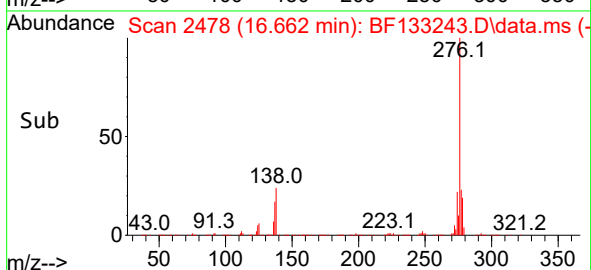
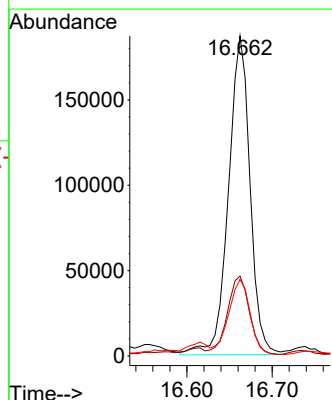
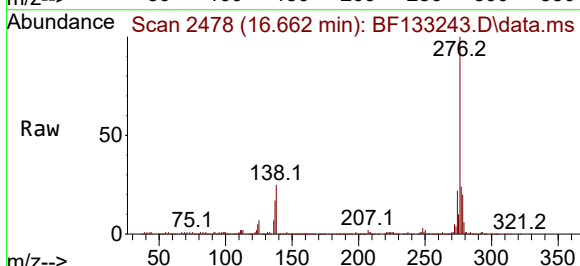
Tgt Ion:276 Resp: 328767

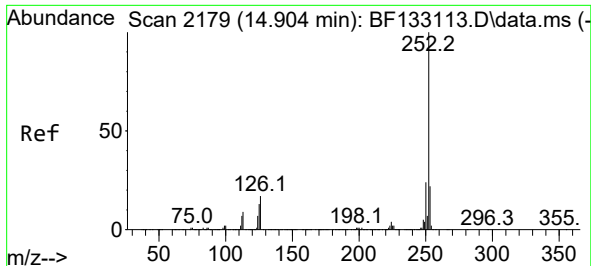
Ion Ratio Lower Upper

276 100

138 25.0 25.5 38.3#

277 23.8 20.4 30.6

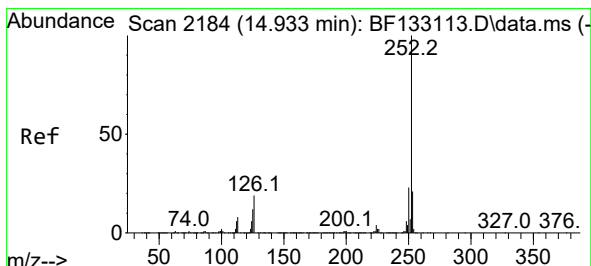
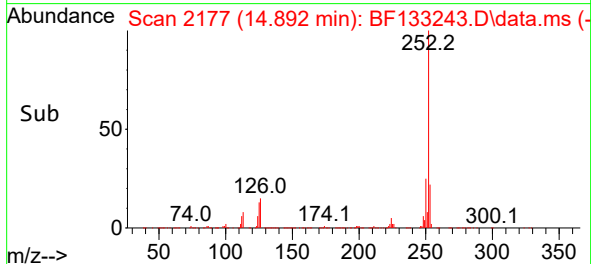
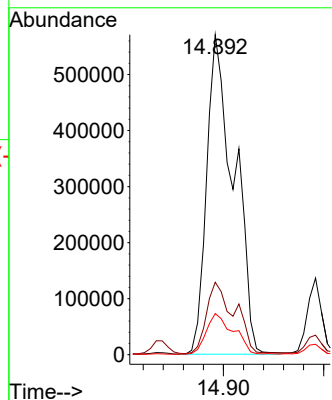
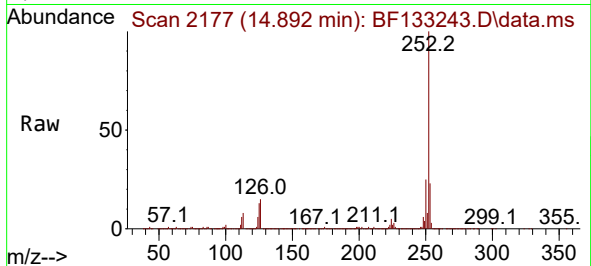




#88
Benzo(b)fluoranthene
Concen: 38.388 ng
RT: 14.892 min Scan# 2177
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

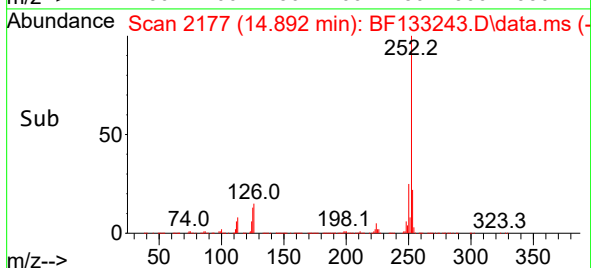
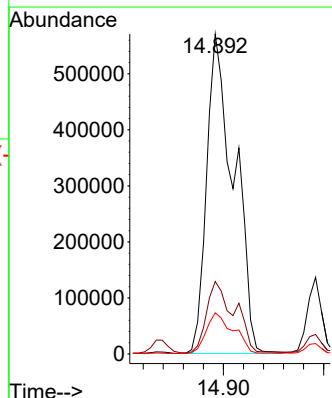
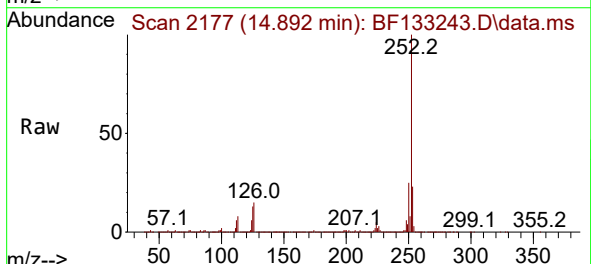
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

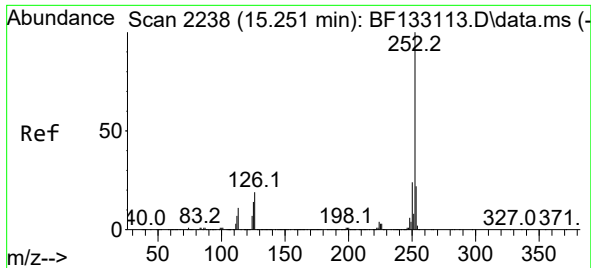
Tgt Ion:252 Resp: 1081280
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 12.8 8.9 13.3



#89
Benzo(k)fluoranthene
Concen: 38.725 ng
RT: 14.892 min Scan# 2177
Delta R.T. -0.035 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

Tgt Ion:252 Resp: 1081280
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 12.8 9.0 13.4

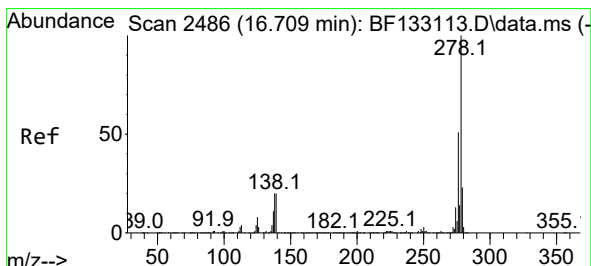
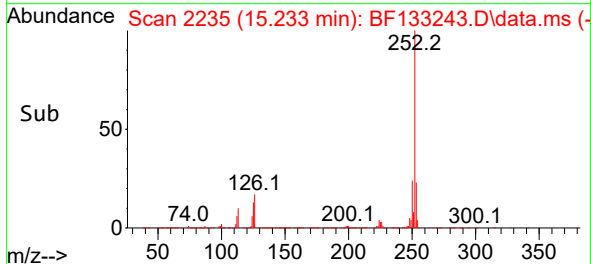
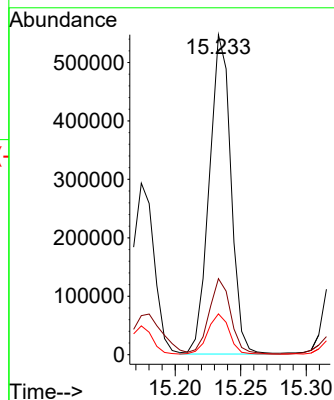
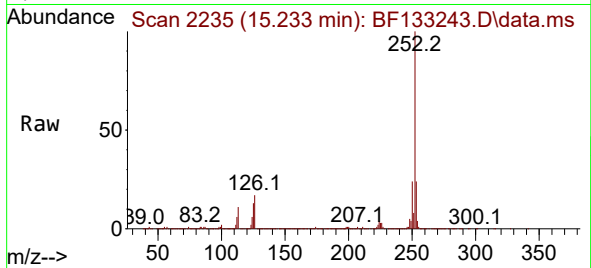




#90
Benzo(a)pyrene
Concen: 24.481 ng
RT: 15.233 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

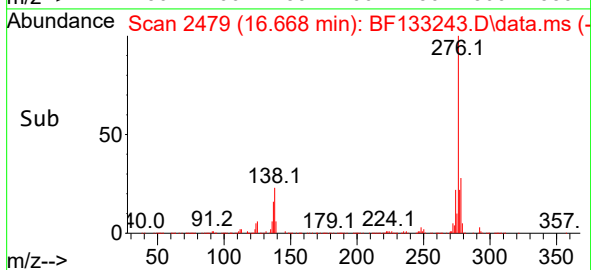
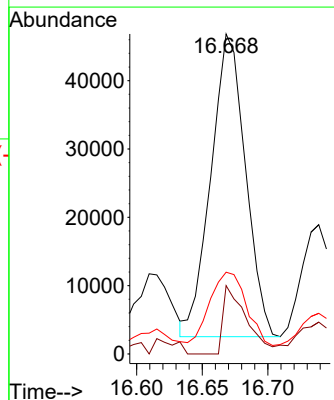
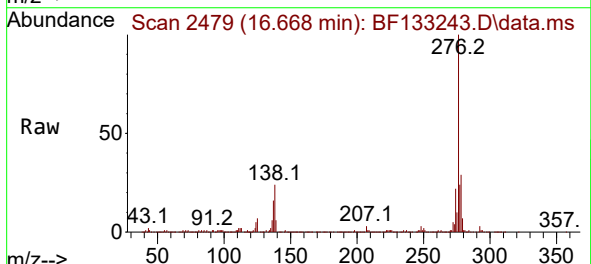
Instrument :
BNA_F
ClientSampleId :
PILE-B-UNK-05022023

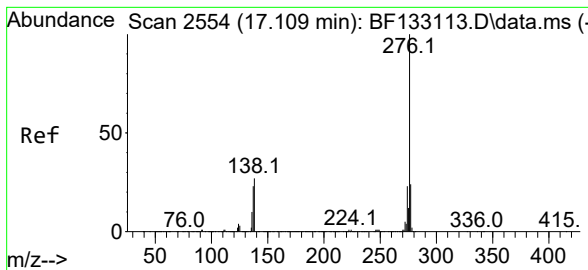
Tgt Ion:252 Resp: 627646
Ion Ratio Lower Upper
252 100
253 23.8 17.7 26.5
125 12.8 10.5 15.7



#91
Dibenzo(a,h)anthracene
Concen: 3.862 ng
RT: 16.668 min Scan# 2479
Delta R.T. -0.024 min
Lab File: BF133243.D
Acq: 04 May 2023 21:38

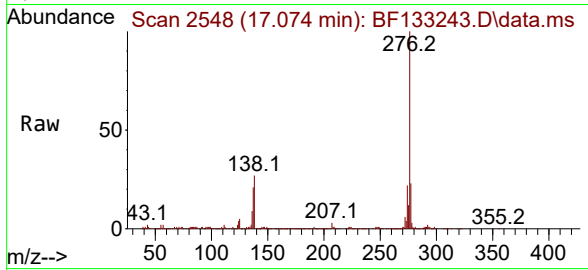
Tgt Ion:278 Resp: 81129
Ion Ratio Lower Upper
278 100
139 21.4 16.6 24.8
279 25.6 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 11.762 ng
 RT: 17.074 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BF133243.D
 Acq: 04 May 2023 21:38

Instrument :
 BNA_F
 ClientSampleId :
 PILE-B-UNK-05022023



Tgt Ion:276 Resp: 243909

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	26.7	22.7	34.1

