

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112423\
 Data File : BF136215.D
 Acq On : 25 Nov 2023 10:52
 Operator : CG\JU
 Sample : 05253-04DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 27 02:22:09 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 24 23:44:28 2023
 Response via : Initial Calibration

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

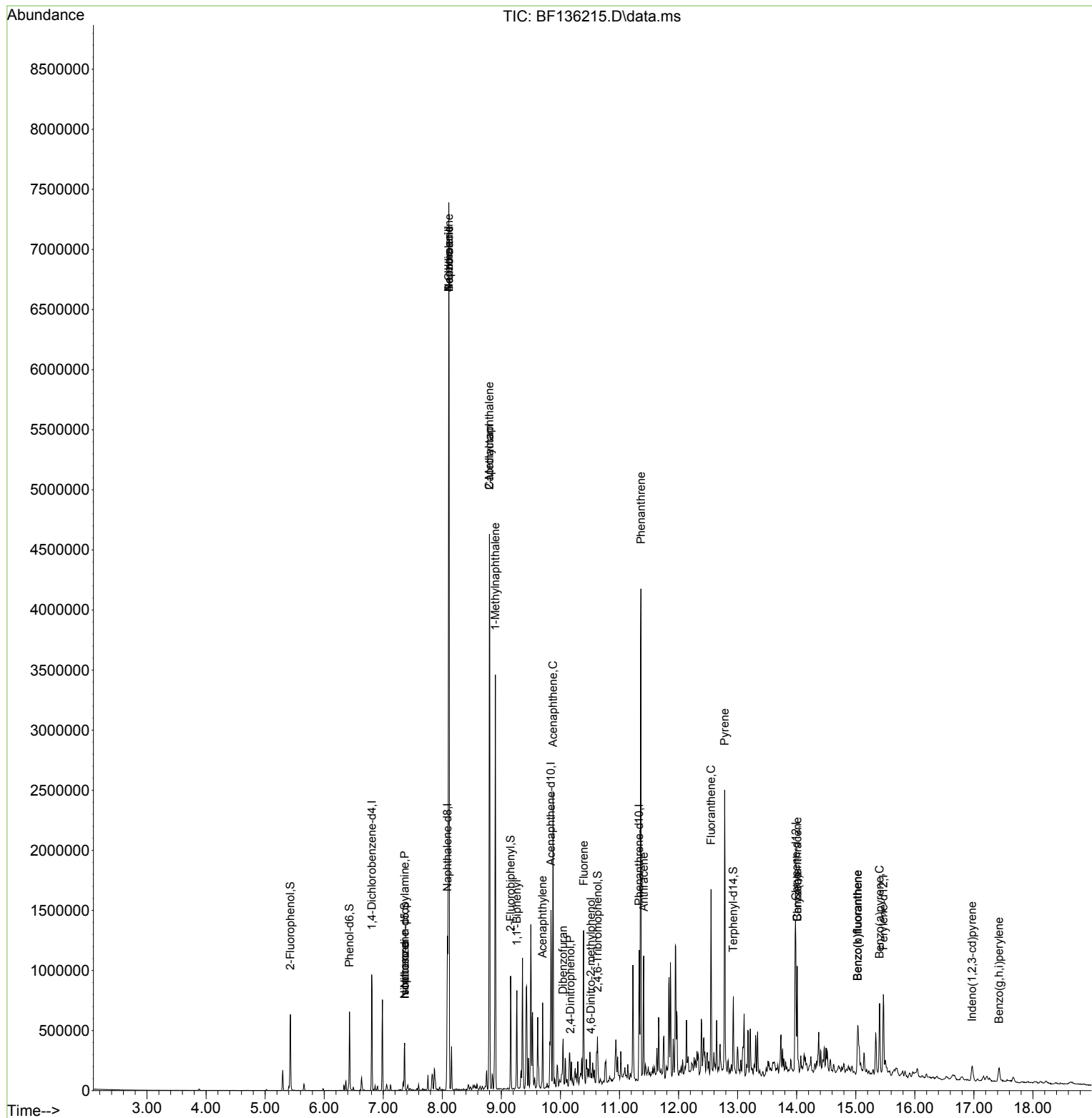
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	137104	20.000	ng	0.00
21) Naphthalene-d8	8.086	136	567518	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	271264	20.000	ng	0.00
64) Phenanthrene-d10	11.333	188	395391	20.000	ng	0.00
76) Chrysene-d12	13.986	240	284663	20.000	ng	0.00
86) Perylene-d12	15.468	264	300245	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	146937	17.064	ng	0.00
7) Phenol-d6	6.428	99	193370	18.250	ng	-0.02
23) Nitrobenzene-d5	7.363	82	114492	11.258	ng	-0.01
42) 2,4,6-Tribromophenol	10.627	330	30079	10.587	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	258909	14.109	ng	-0.01
79) Terphenyl-d14	12.927	244	192970	9.622	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.363	70	15071	2.464	ng	# 85
25) Isophorone	7.363	82	113548	6.470	ng	# 64
31) Naphthalene	8.110	128	3627897	129.770	ng	95
32) Benzoic acid	8.110	122	9719	6.467	ng	# 1
33) 4-Chloroaniline	8.110	127	532926	45.960	ng	# 49
35) Caprolactam	8.798	113	28489	12.524	ng	# 1
37) 2-Methylnaphthalene	8.798	142	1195434	63.776	ng	91
38) 1-Methylnaphthalene	8.898	142	777874	44.729	ng	89
46) 1,1'-Biphenyl	9.263	154	233233	10.957	ng	98
49) Acenaphthylene	9.698	152	138343	5.761	ng	# 95
52) Acenaphthene	9.874	154	418079	26.137	ng	90
54) 2,4-Dinitrophenol	10.169	184	56	6.517	ng	# 1
55) Dibenzofuran	10.045	168	54128	2.434	ng	# 87
58) Fluorene	10.392	166	325405	19.279	ng	95
65) 4,6-Dinitro-2-methylph...	10.516	198	53	4.733	ng	# 1
71) Phenanthrene	11.363	178	1547294	76.420	ng	96
72) Anthracene	11.410	178	362378	17.534	ng	98
75) Fluoranthene	12.551	202	521369	28.197	ng	97
78) Pyrene	12.780	202	924088	34.715	ng	96
81) Benzo(a)anthracene	14.009	228	299915	15.884	ng	95
83) Chrysene	14.009	228	299915	16.236	ng	98
87) Indeno(1,2,3-cd)pyrene	16.968	276	83291	3.786	ng	98
88) Benzo(b)fluoranthene	15.033	252	316248	19.078	ng	100
89) Benzo(k)fluoranthene	15.033	252	316248	18.945	ng	98
90) Benzo(a)pyrene	15.403	252	275724	16.864	ng	99
92) Benzo(g,h,i)perylene	17.427	276	91478	4.949	ng	99

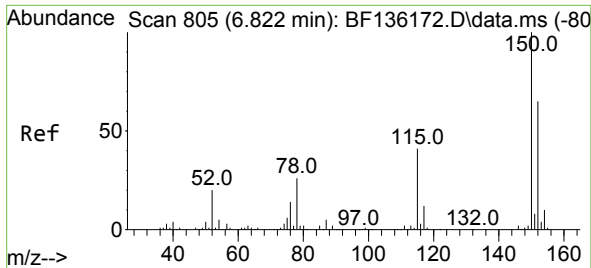
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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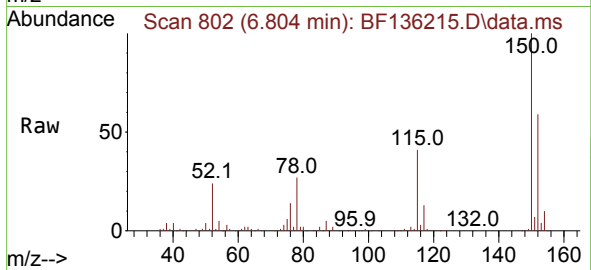
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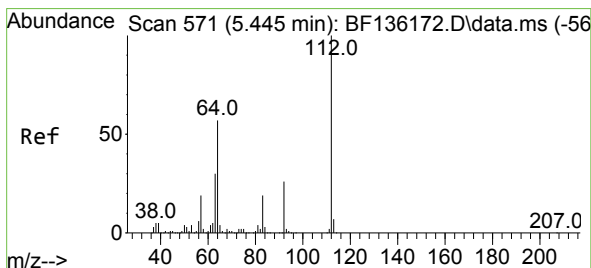
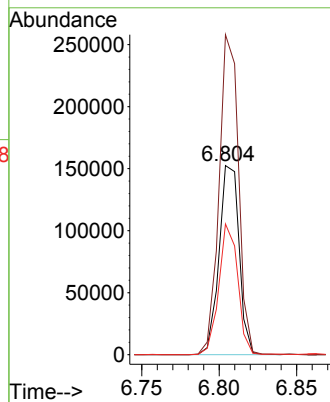
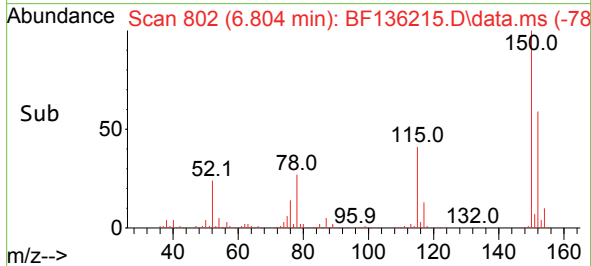


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Instrument :
BNA_F
ClientSampleId :

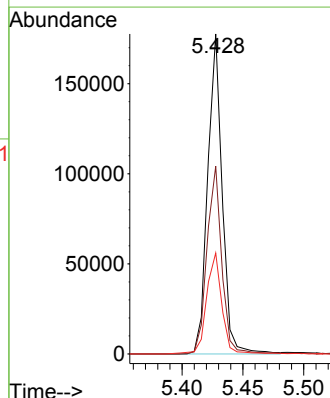
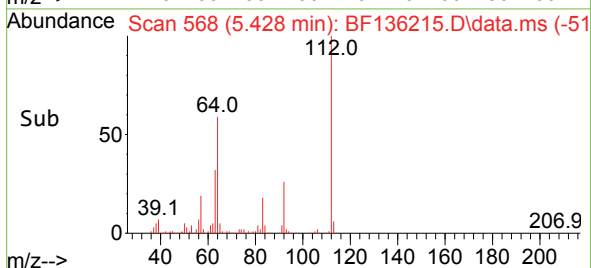
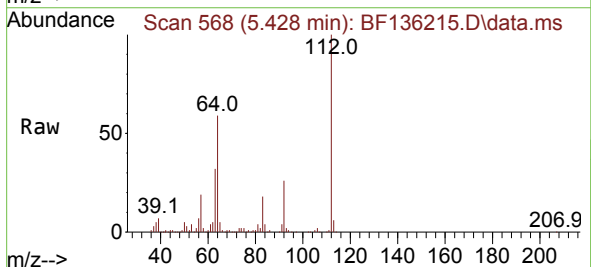


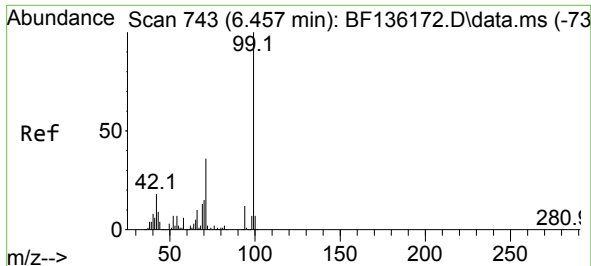
Tgt Ion:152 Resp: 137104
Ion Ratio Lower Upper
152 100
150 169.2 123.1 184.7
115 69.1 50.5 75.7



#5
2-Fluorophenol
Concen: 17.064 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Tgt Ion:112 Resp: 146937
Ion Ratio Lower Upper
112 100
64 58.7 45.4 68.0
63 31.6 24.4 36.6

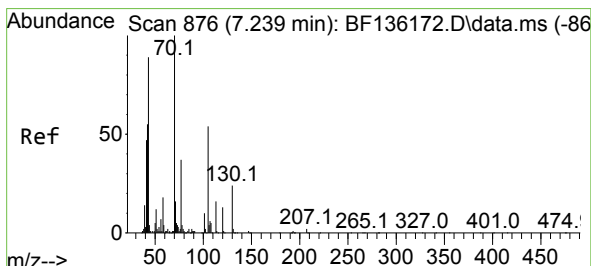
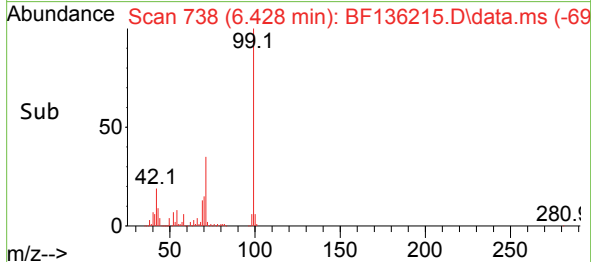
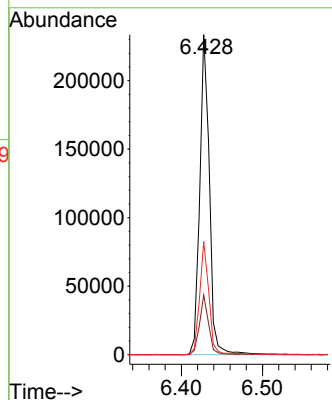
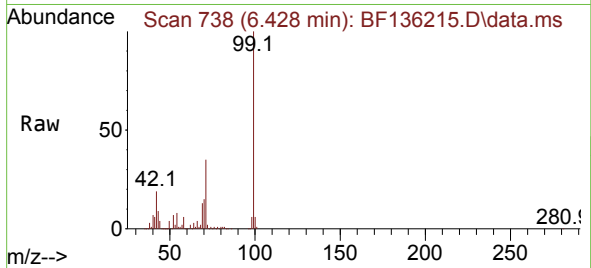




#7
Phenol-d6
Concen: 18.250 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

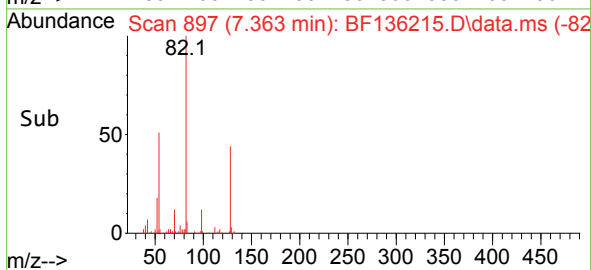
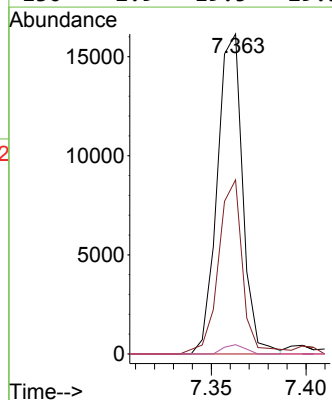
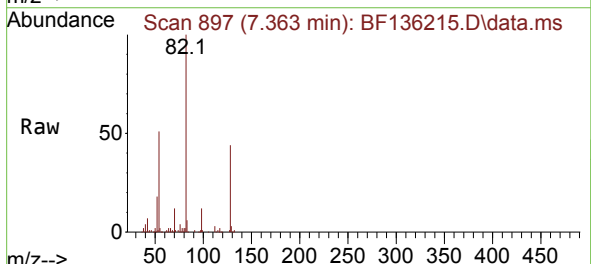
Instrument :
BNA_F
ClientSampleId :

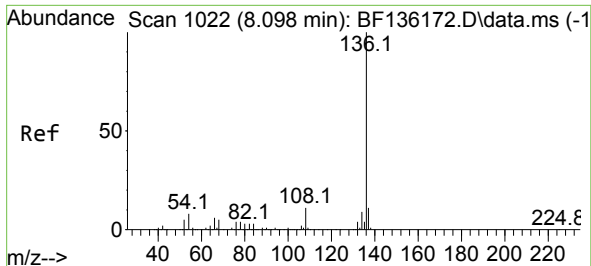
Tgt Ion: 99 Resp: 193370
Ion Ratio Lower Upper
99 100
42 18.7 14.1 21.1
71 35.4 29.0 43.4



#19
n-Nitroso-di-n-propylamine
Concen: 2.464 ng
RT: 7.363 min Scan# 897
Delta R.T. 0.141 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

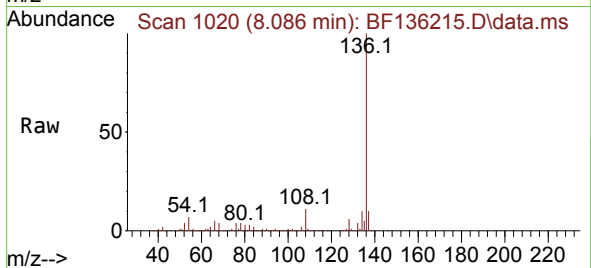
Tgt Ion: 70 Resp: 15071
Ion Ratio Lower Upper
70 100
42 54.4 43.9 65.9
101 0.0 8.1 12.1#
130 2.9 19.5 29.3#



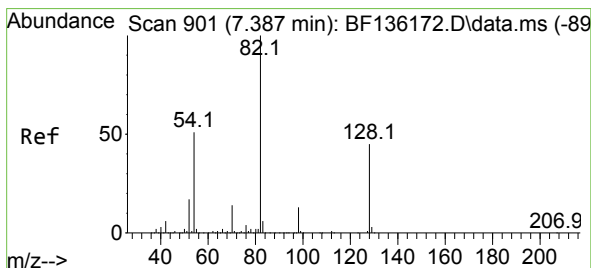
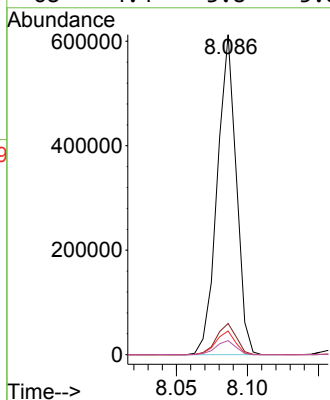
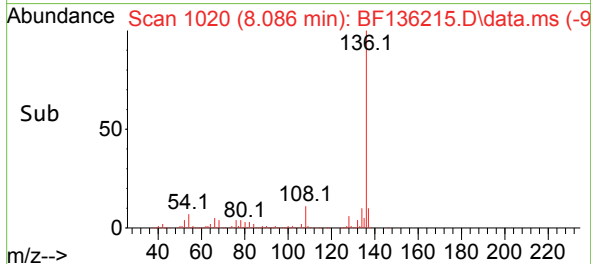


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1022
Delta R.T. -0.000 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Instrument :
BNA_F
ClientSampleId :

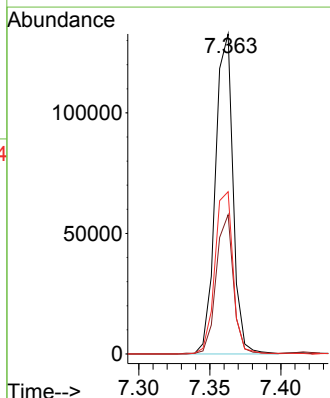
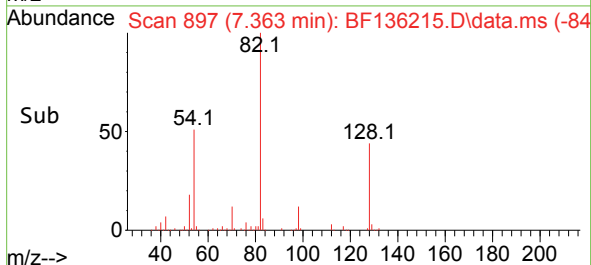
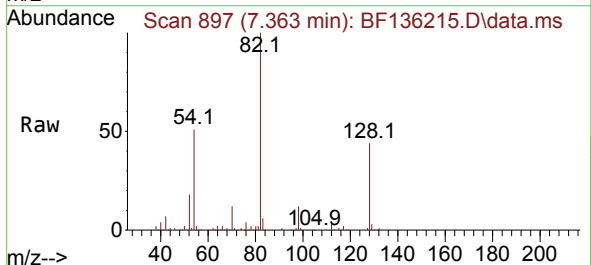


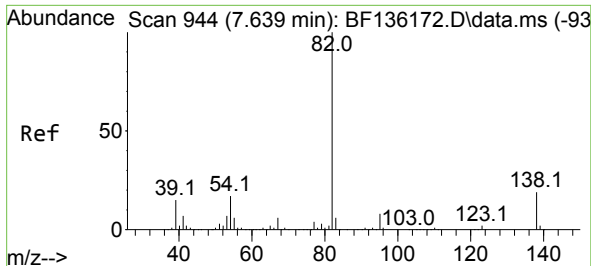
Tgt Ion:136 Resp: 567518
Ion Ratio Lower Upper
136 100
137 9.7 8.6 13.0
54 7.4 6.3 9.5
68 4.4 3.8 5.8



#23
Nitrobenzene-d5
Concen: 11.258 ng
RT: 7.363 min Scan# 897
Delta R.T. -0.012 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Tgt Ion: 82 Resp: 114492
Ion Ratio Lower Upper
82 100
128 43.5 35.8 53.6
54 50.7 40.6 60.8

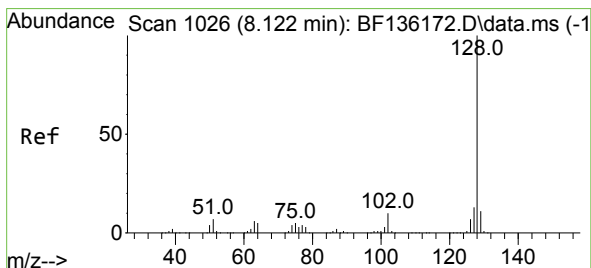
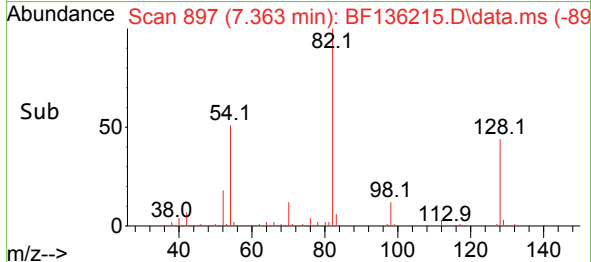
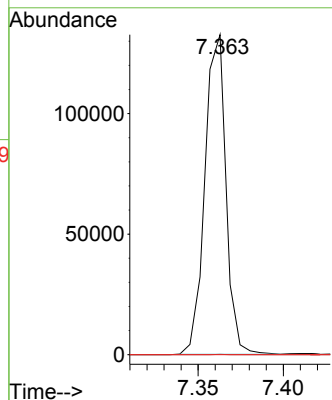
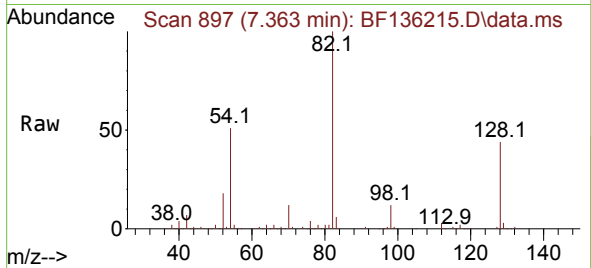




#25
Isophorone
Concen: 6.470 ng
RT: 7.363 min Scan# 897
Delta R.T. -0.265 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

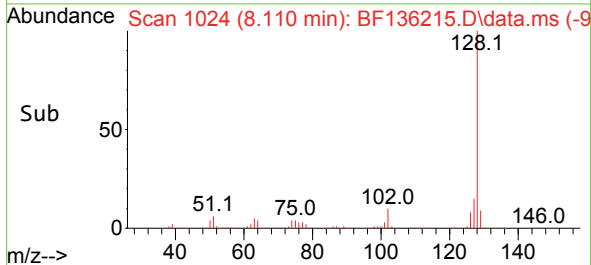
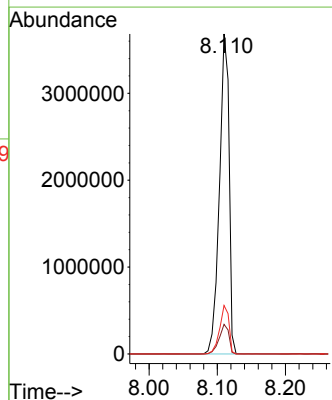
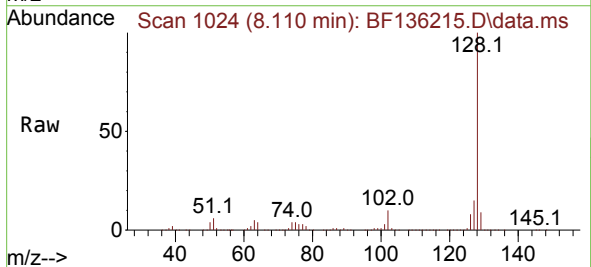
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ClientSampleId :

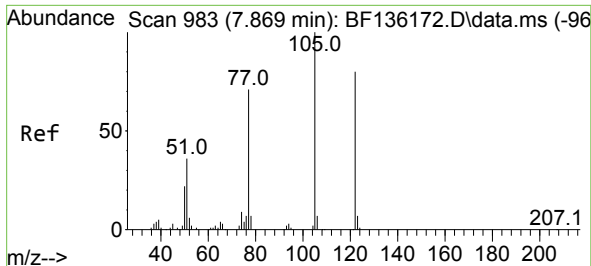
Tgt Ion: 82 Resp: 113548
Ion Ratio Lower Upper
82 100
95 0.1 6.2 9.4#
138 0.0 14.8 22.2#



#31
Naphthalene
Concen: 129.770 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.000 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Tgt Ion:128 Resp: 3627897
Ion Ratio Lower Upper
128 100
129 9.3 8.9 13.3
127 15.1 10.6 16.0

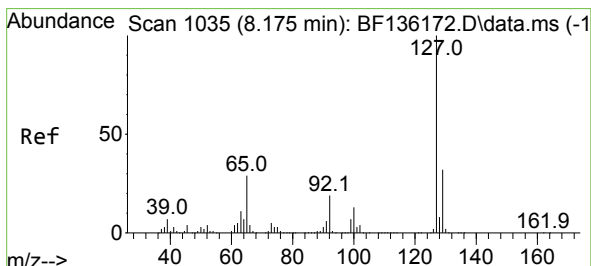
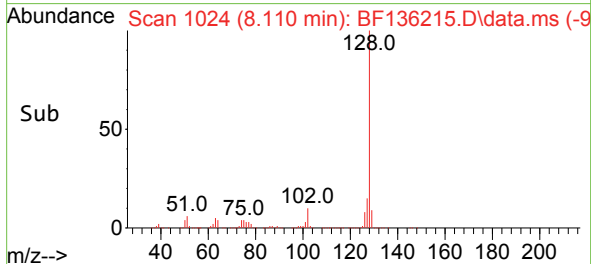
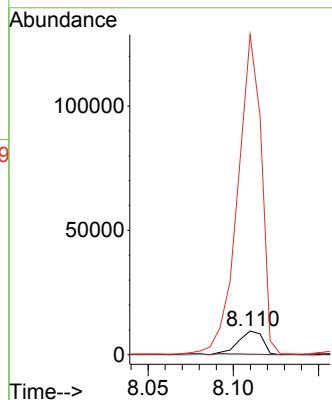
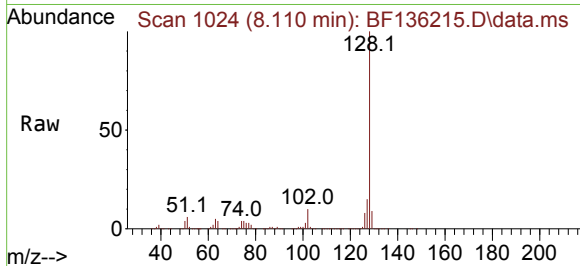




#32
Benzoic acid
Concen: 6.467 ng
RT: 8.110 min Scan# 1024
Delta R.T. 0.253 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

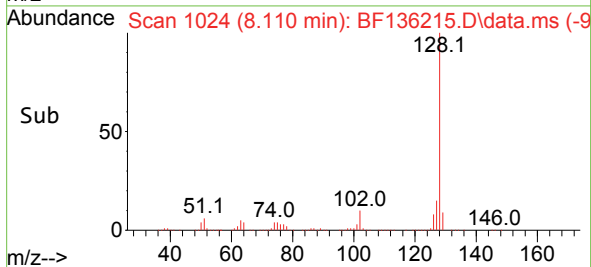
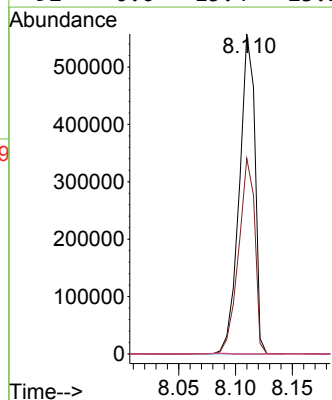
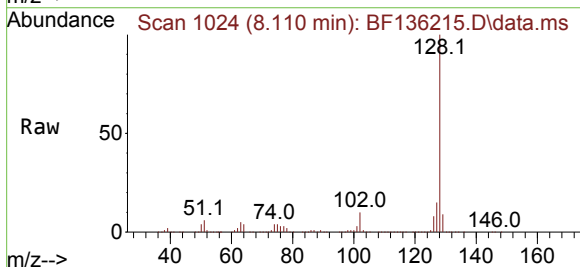
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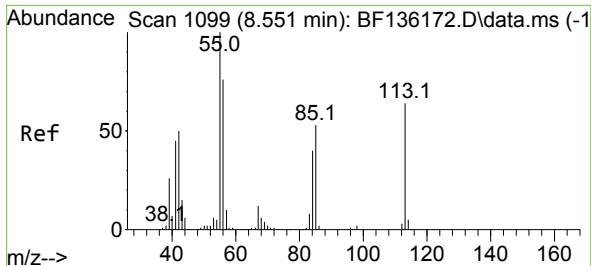
Tgt Ion:122 Resp: 9719
Ion Ratio Lower Upper
122 100
105 2.2 102.5 142.5#
77 1349.6 68.1 108.1#



#33
4-Chloroaniline
Concen: 45.960 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.053 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Tgt Ion:127 Resp: 532926
Ion Ratio Lower Upper
127 100
129 61.2 25.7 38.5#
65 0.0 23.3 34.9#
92 0.0 15.4 23.2#

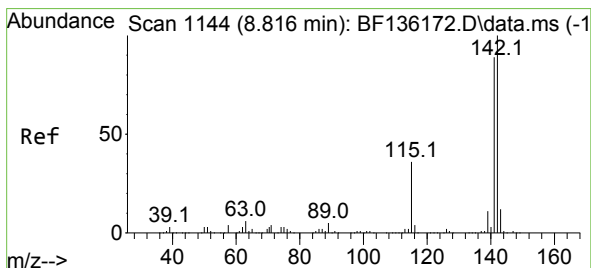
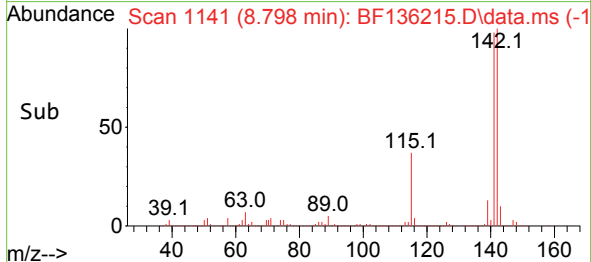
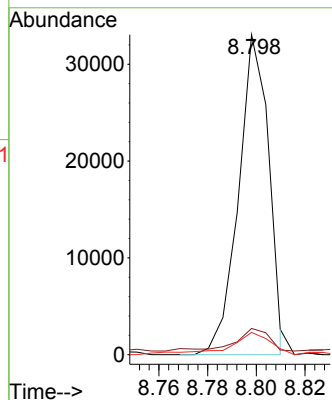
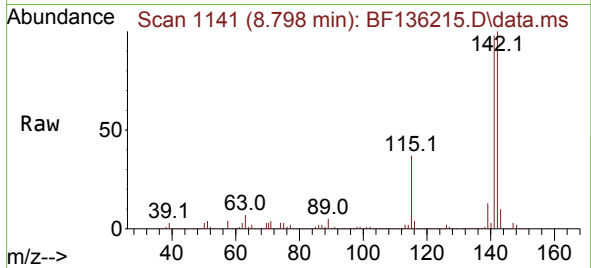




#35
 Caprolactam
 Concen: 12.524 ng
 RT: 8.798 min Scan# 1141
 Delta R.T. 0.264 min
 Lab File: BF136215.D
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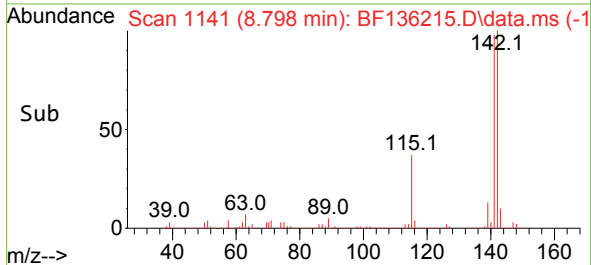
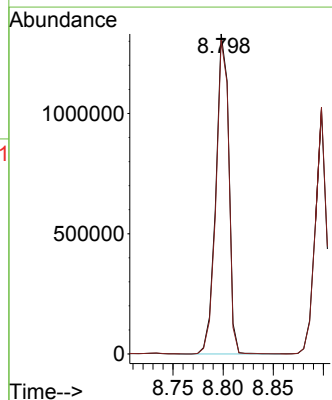
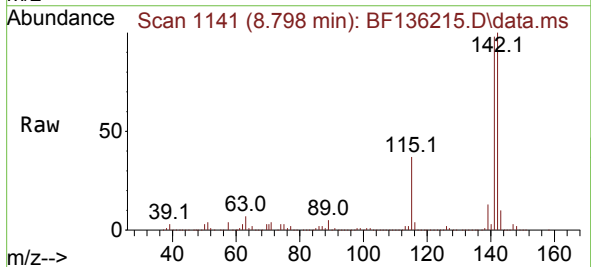
Instrument :
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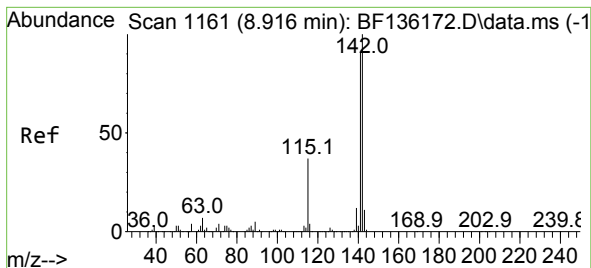
Tgt Ion:113 Resp: 28489
 Ion Ratio Lower Upper
 113 100
 55 8.2 137.2 177.2#
 56 7.0 99.8 139.8#



#37
 2-Methylnaphthalene
 Concen: 63.776 ng
 RT: 8.798 min Scan# 1141
 Delta R.T. -0.006 min
 Lab File: BF136215.D
 Acq: 25 Nov 2023 10:52

Tgt Ion:142 Resp: 1195434
 Ion Ratio Lower Upper
 142 100
 141 98.0 71.4 107.0





#38

1-Methylnaphthalene

Concen: 44.729 ng

RT: 8.898 min Scan# 1158

Delta R.T. -0.000 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

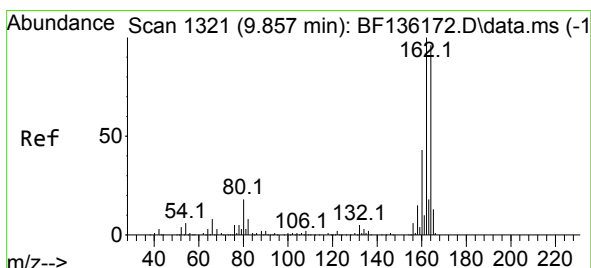
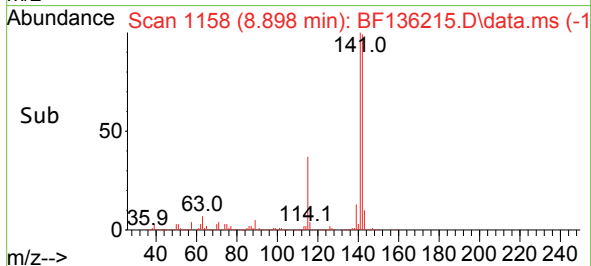
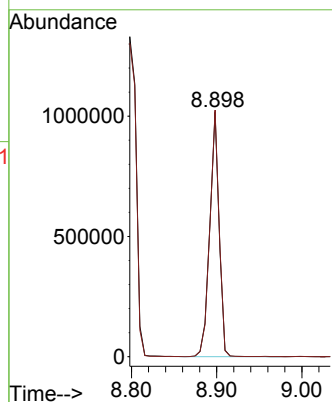
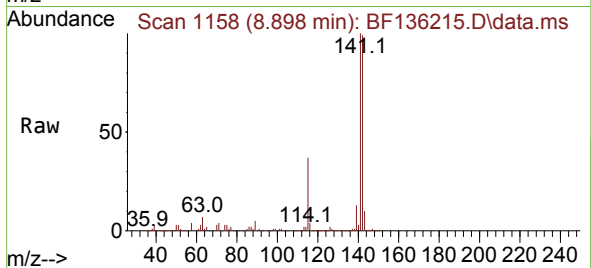
ClientSampleId :

Tgt Ion:142 Resp: 777874

Ion Ratio Lower Upper

142 100

141 100.9 72.7 109.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1318

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

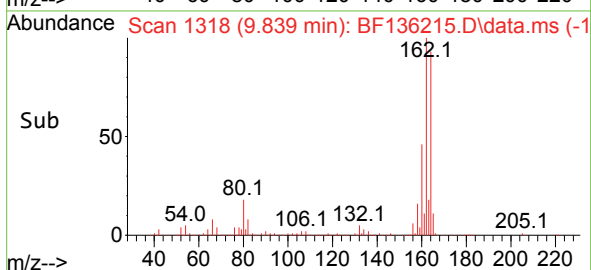
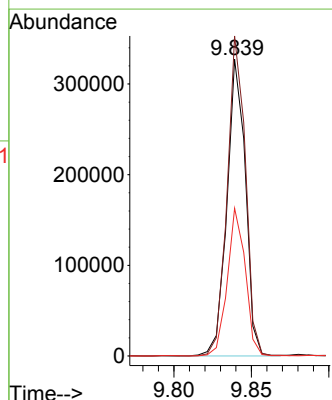
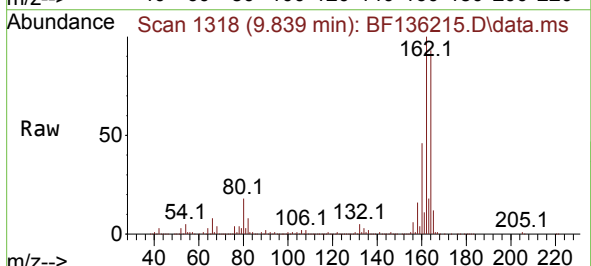
Tgt Ion:164 Resp: 271264

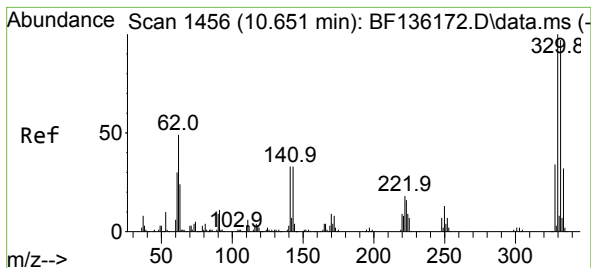
Ion Ratio Lower Upper

164 100

162 107.8 83.2 124.8

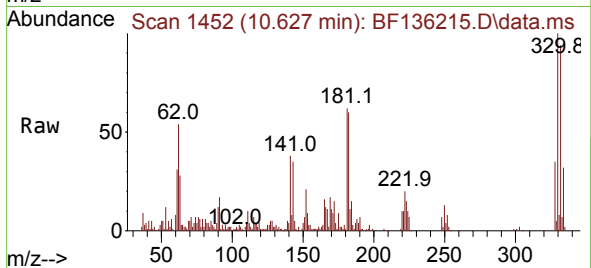
160 49.8 35.8 53.8



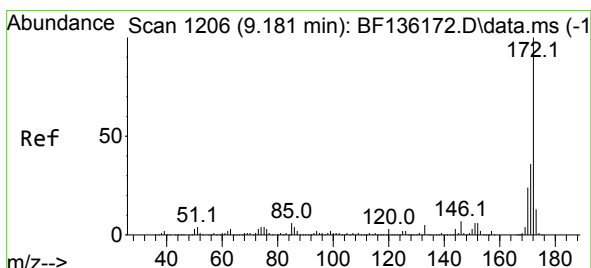
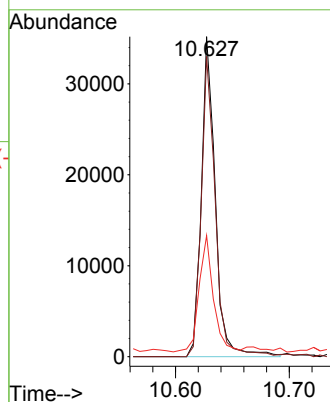
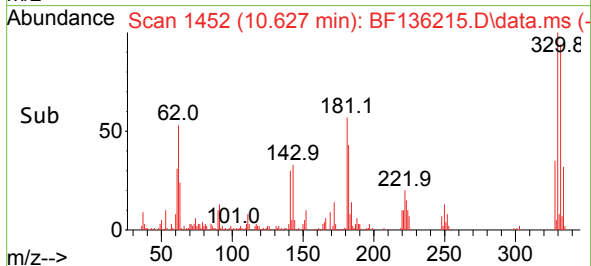


#42
2,4,6-Tribromophenol
Concen: 10.587 ng
RT: 10.627 min Scan# 1456
Delta R.T. -0.012 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

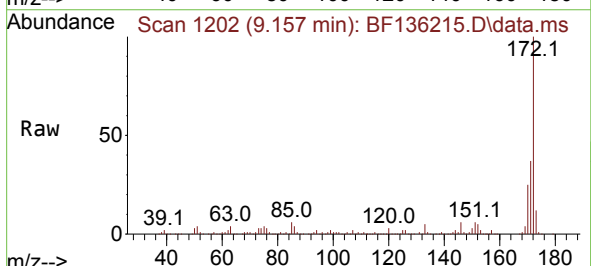
Instrument :
BNA_F
ClientSampleId :



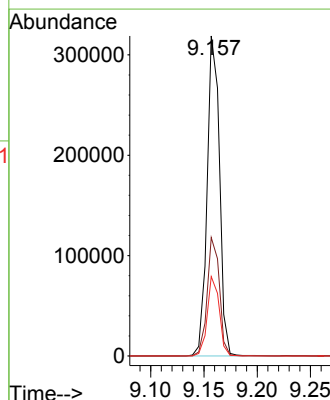
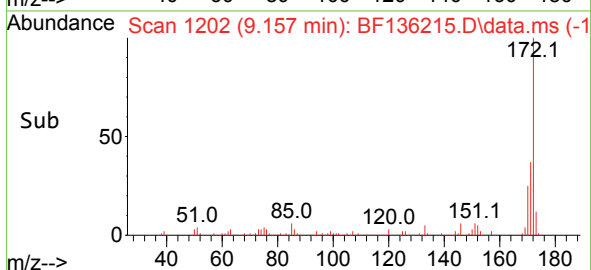
Tgt Ion: 330 Resp: 30079
Ion Ratio Lower Upper
330 100
332 94.5 77.6 116.4
141 37.5 25.8 38.6

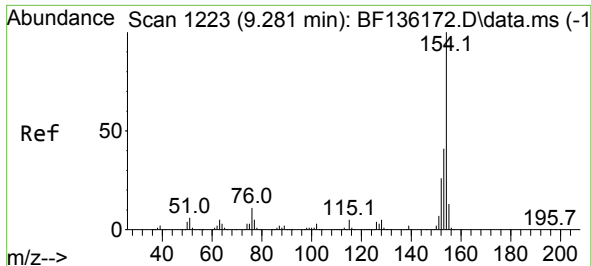


#45
2-Fluorobiphenyl
Concen: 14.109 ng
RT: 9.157 min Scan# 1202
Delta R.T. -0.012 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52



Tgt Ion: 172 Resp: 258909
Ion Ratio Lower Upper
172 100
171 37.0 28.9 43.3
170 24.8 19.1 28.7





#46

1,1'-Biphenyl

Concen: 10.957 ng

RT: 9.263 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

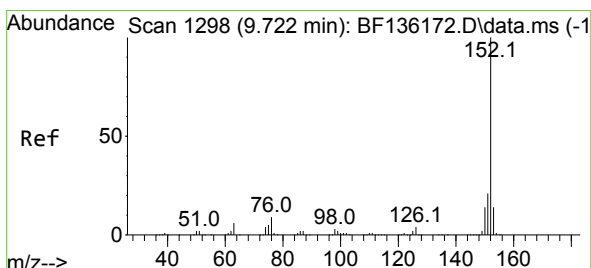
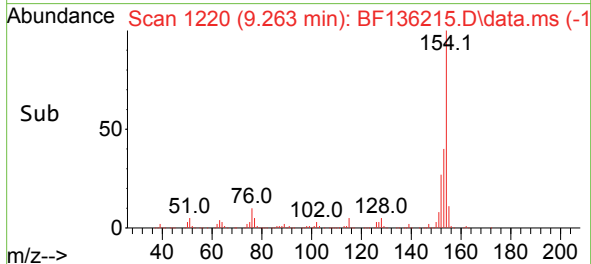
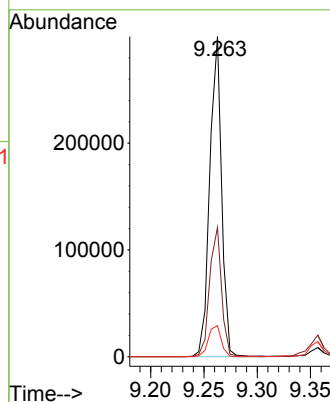
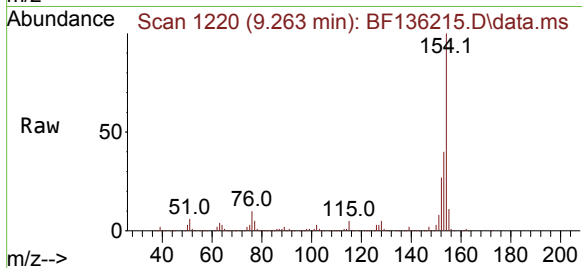
Tgt Ion:154 Resp: 233233

Ion Ratio Lower Upper

154 100

153 40.4 21.1 61.1

76 9.7 0.0 31.2



#49

Acenaphthylene

Concen: 5.761 ng

RT: 9.698 min Scan# 1294

Delta R.T. -0.012 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

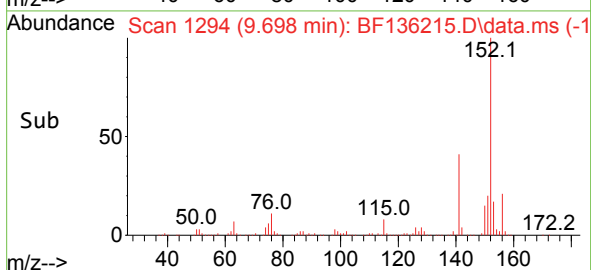
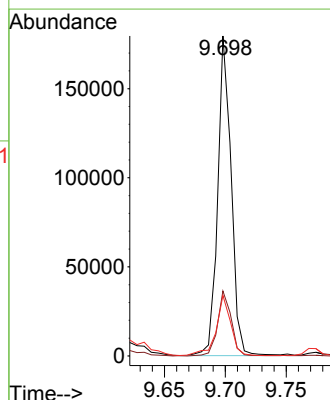
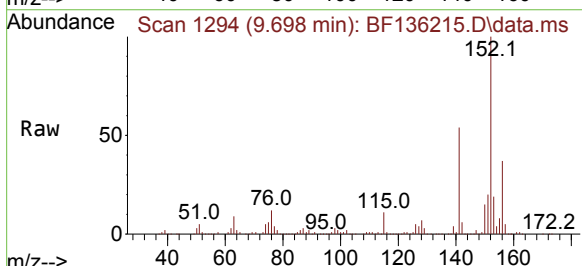
Tgt Ion:152 Resp: 138343

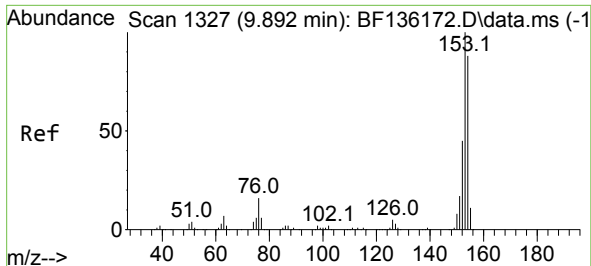
Ion Ratio Lower Upper

152 100

151 20.3 16.4 24.6

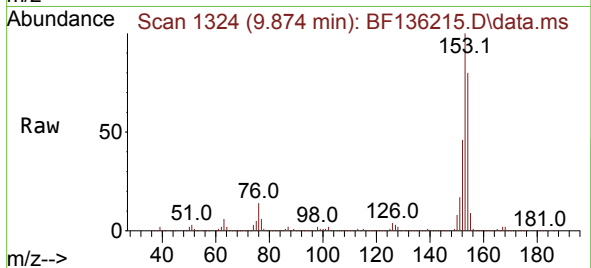
153 18.9 11.1 16.7#



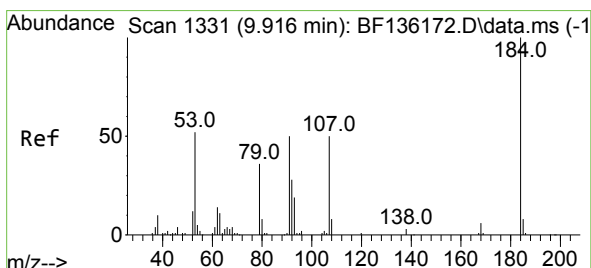
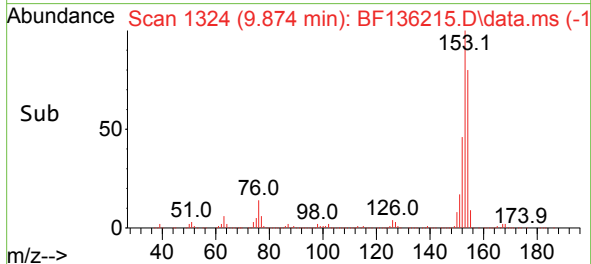
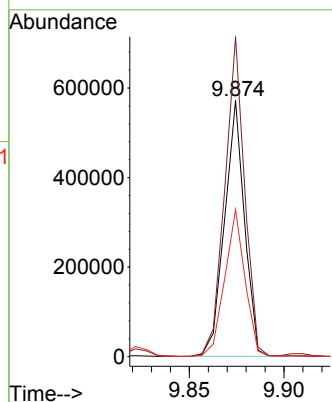


#52
Acenaphthene
Concen: 26.137 ng
RT: 9.874 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Instrument :
BNA_F
ClientSampleId :

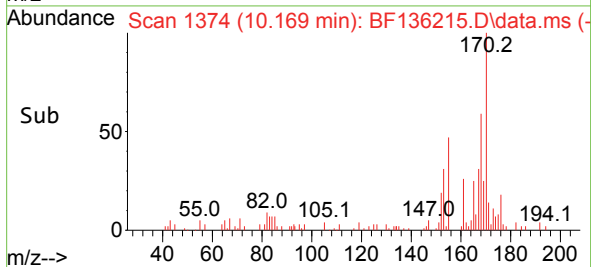
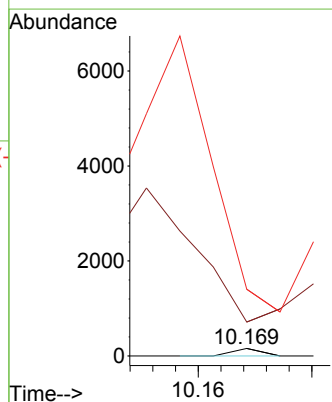
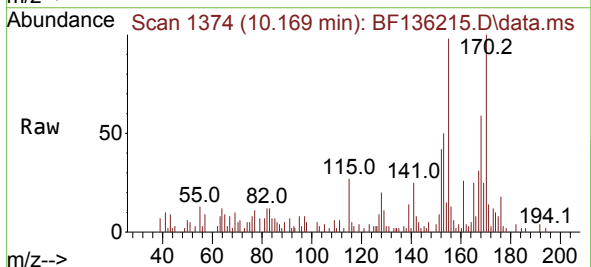


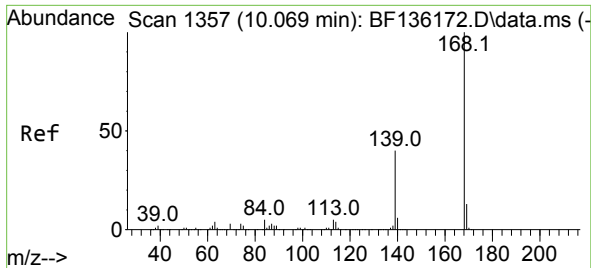
Tgt Ion:154 Resp: 418079
Ion Ratio Lower Upper
154 100
153 124.9 90.4 135.6
152 57.4 41.1 61.7



#54
2,4-Dinitrophenol
Concen: 6.517 ng
RT: 10.169 min Scan# 1374
Delta R.T. 0.264 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

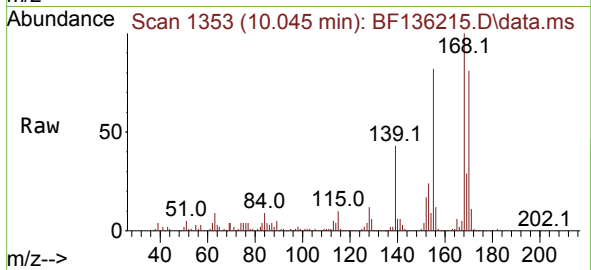
Tgt Ion:184 Resp: 56
Ion Ratio Lower Upper
184 100
63 451.3 59.1 88.7#
154 889.9 58.2 87.2#



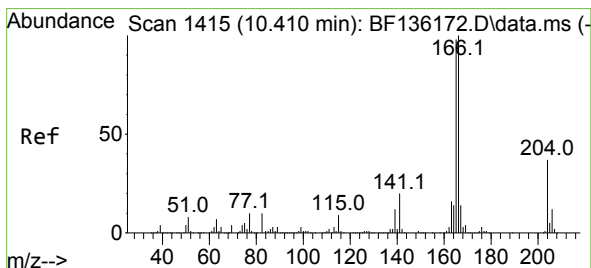
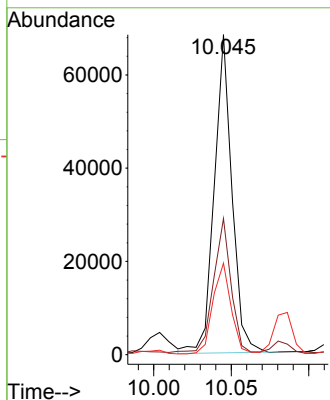
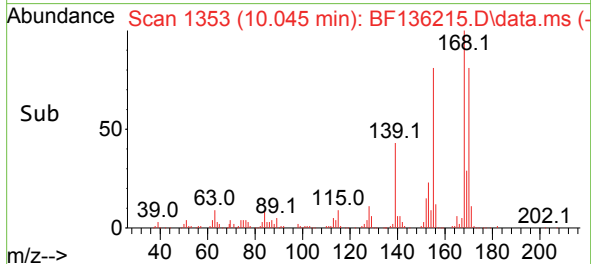


#55
Dibenzenofuran
Concen: 2.434 ng
RT: 10.045 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

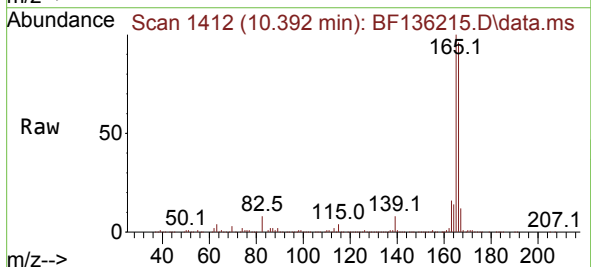
Instrument :
BNA_F
ClientSampleId :



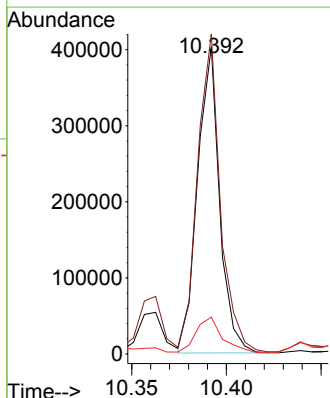
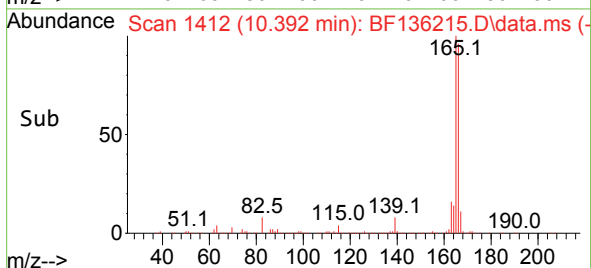
Tgt Ion:168 Resp: 54128
Ion Ratio Lower Upper
168 100
139 42.5 31.9 47.9
169 28.6 10.6 16.0#

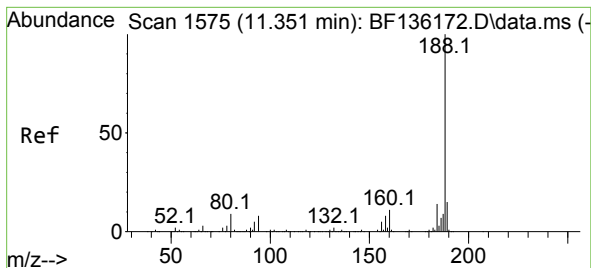


#58
Fluorene
Concen: 19.279 ng
RT: 10.392 min Scan# 1412
Delta R.T. -0.006 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52



Tgt Ion:166 Resp: 325405
Ion Ratio Lower Upper
166 100
165 104.1 78.8 118.2
167 12.0 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.333 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

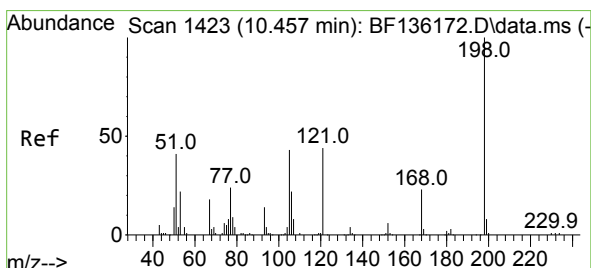
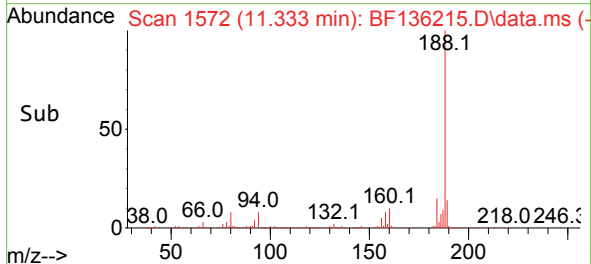
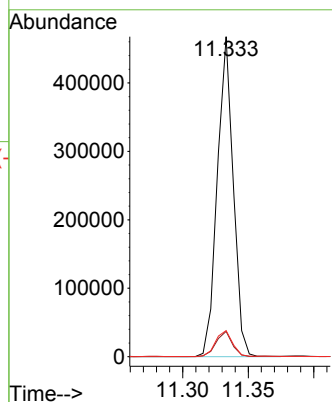
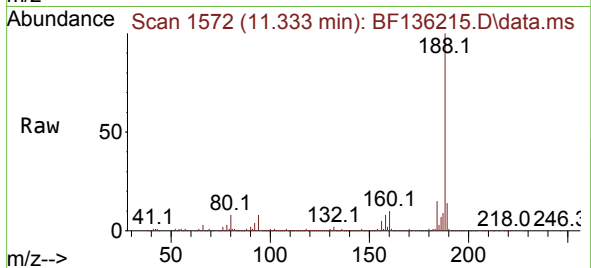
Tgt Ion:188 Resp: 395391

Ion Ratio Lower Upper

188 100

94 7.9 6.6 9.8

80 8.2 7.3 10.9



#65

4,6-Dinitro-2-methylphenol

Concen: 4.733 ng

RT: 10.516 min Scan# 1433

Delta R.T. 0.070 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

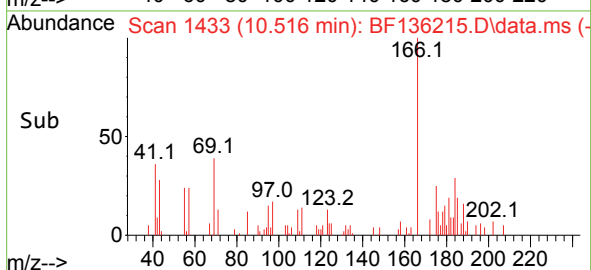
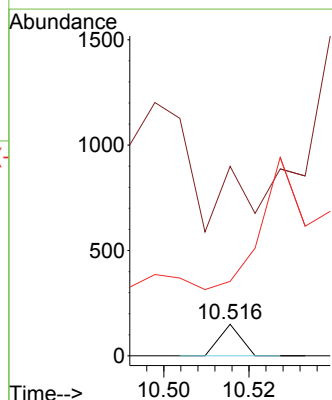
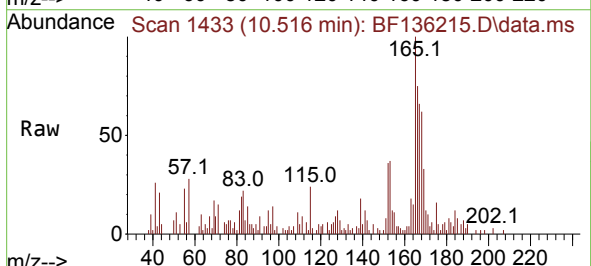
Tgt Ion:198 Resp: 53

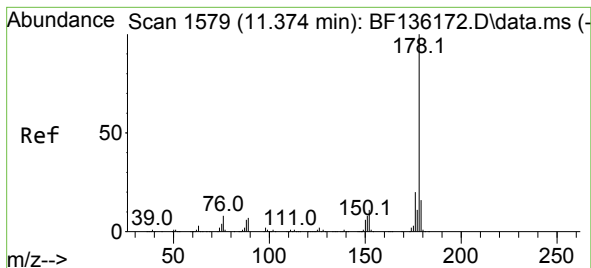
Ion Ratio Lower Upper

198 100

51 599.3 27.3 67.3#

105 235.3 24.2 64.2#





#71

Phenanthrene

Concen: 76.420 ng

RT: 11.363 min Scan# 1577

Delta R.T. -0.000 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

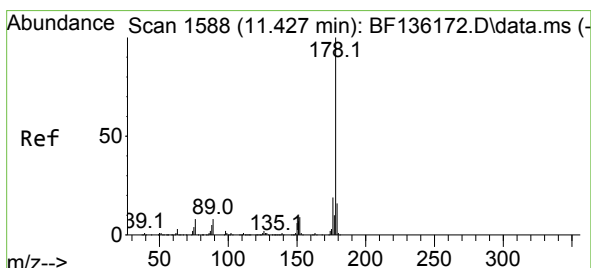
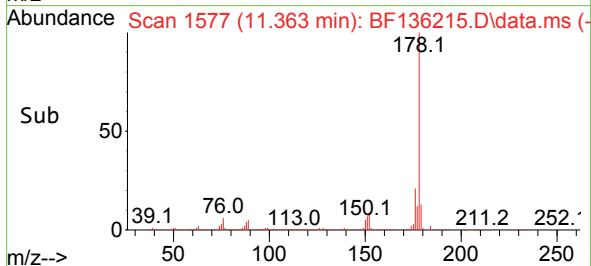
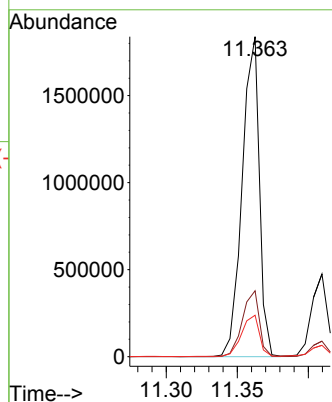
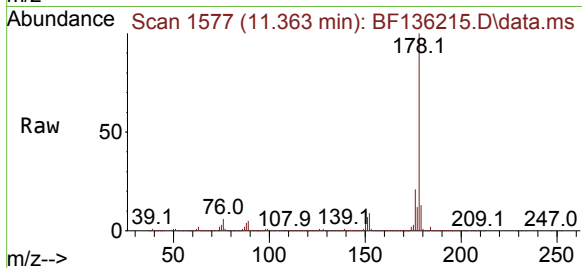
Tgt Ion:178 Resp: 1547294

Ion Ratio Lower Upper

178 100

176 20.6 15.8 23.8

179 12.9 12.7 19.1



#72

Anthracene

Concen: 17.534 ng

RT: 11.410 min Scan# 1585

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

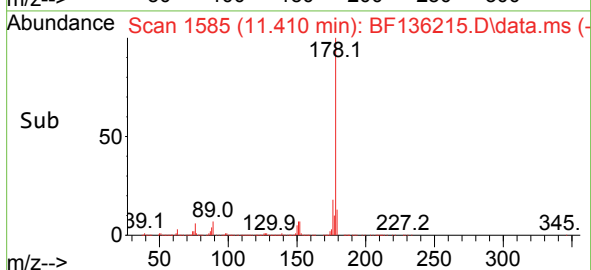
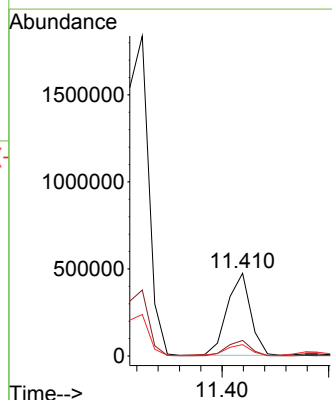
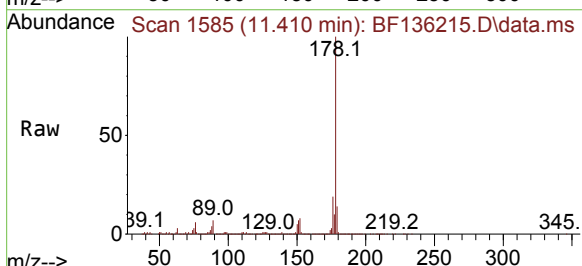
Tgt Ion:178 Resp: 362378

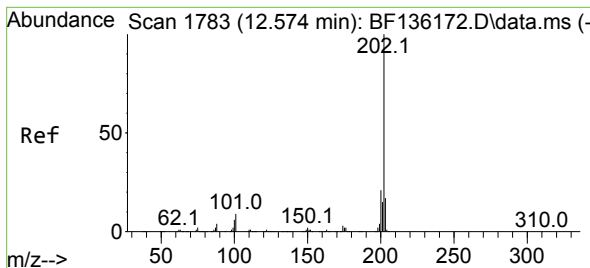
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 13.8 12.6 18.8





#75

Fluoranthene

Concen: 28.197 ng

RT: 12.551 min Scan# 1

Delta R.T. -0.006 min

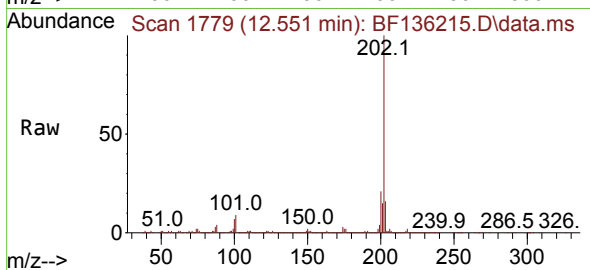
Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :



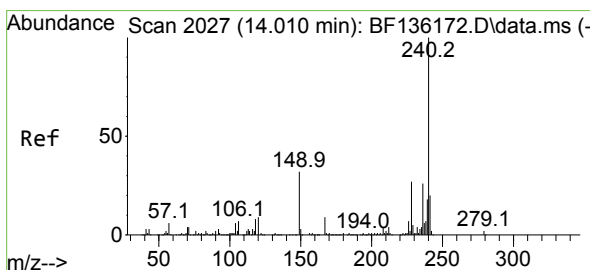
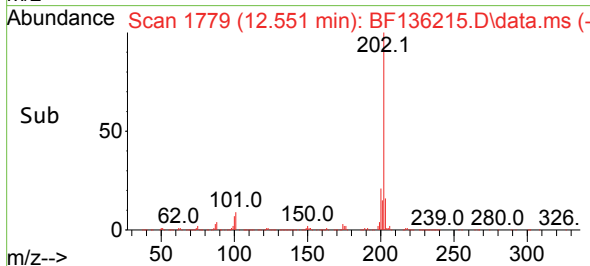
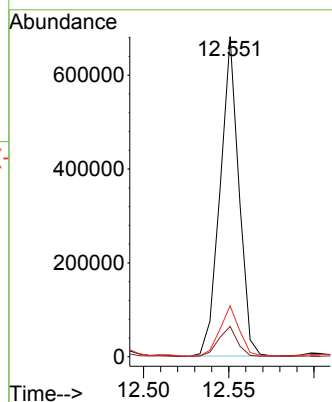
Tgt Ion:202 Resp: 521369

Ion Ratio Lower Upper

202 100

101 9.4 0.0 28.6

203 15.8 0.0 37.2



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 2023

Delta R.T. -0.000 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

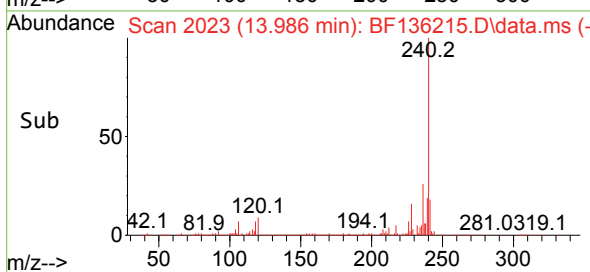
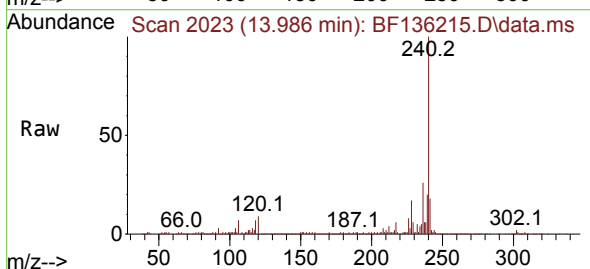
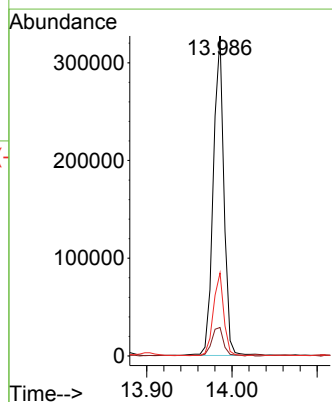
Tgt Ion:240 Resp: 284663

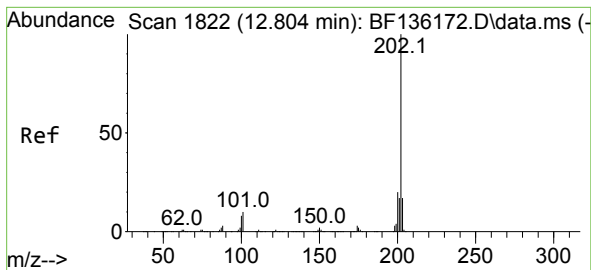
Ion Ratio Lower Upper

240 100

120 8.9 7.1 10.7

236 25.9 20.9 31.3





#78

Pyrene

Concen: 34.715 ng

RT: 12.780 min Scan# 1818

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

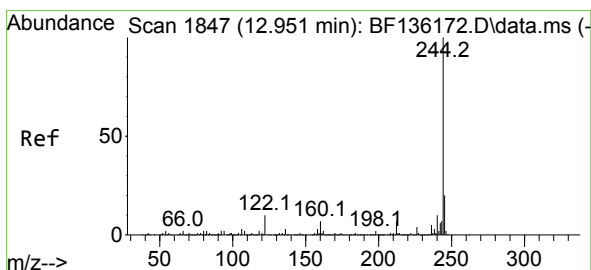
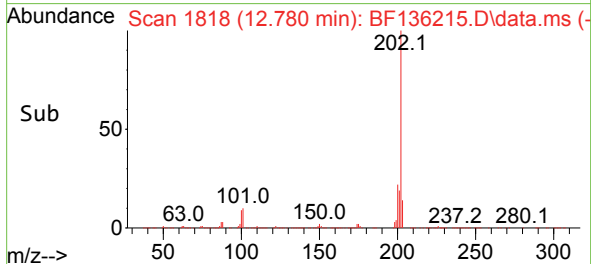
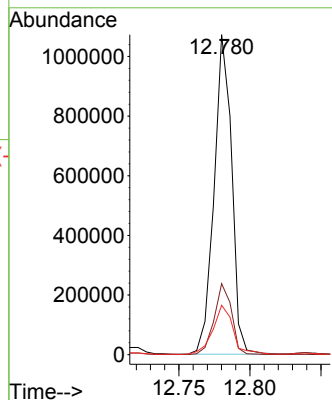
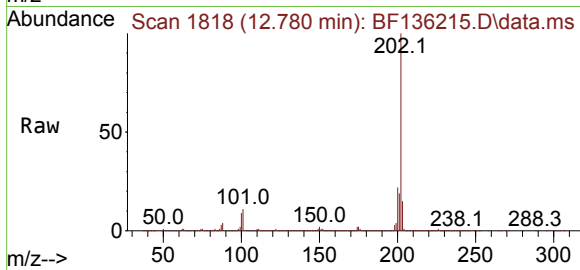
Tgt Ion:202 Resp: 924088

Ion Ratio Lower Upper

202 100

200 22.2 16.2 24.2

203 15.4 13.6 20.4



#79

Terphenyl-d14

Concen: 9.622 ng

RT: 12.927 min Scan# 1843

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

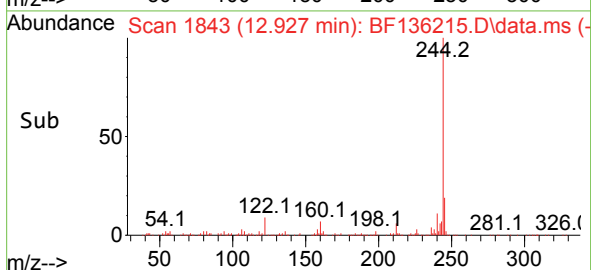
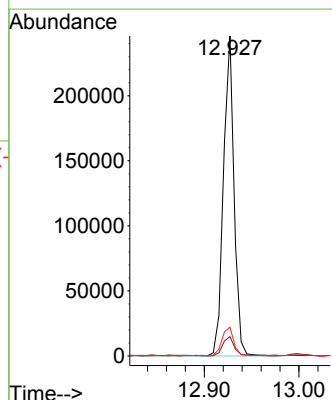
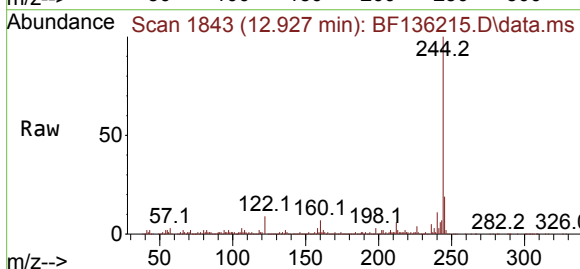
Tgt Ion:244 Resp: 192970

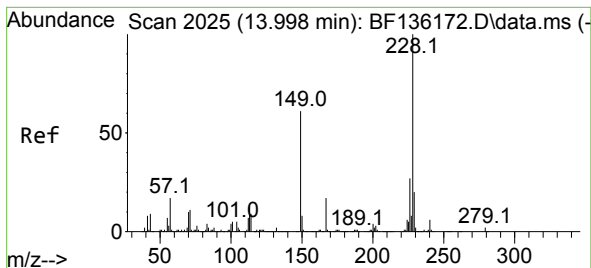
Ion Ratio Lower Upper

244 100

212 6.0 5.4 8.0

122 9.0 8.1 12.1





#81

Benzo(a)anthracene

Concen: 15.884 ng

RT: 14.009 min Scan# 20

Delta R.T. 0.029 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

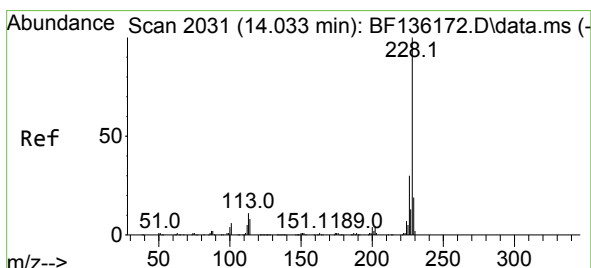
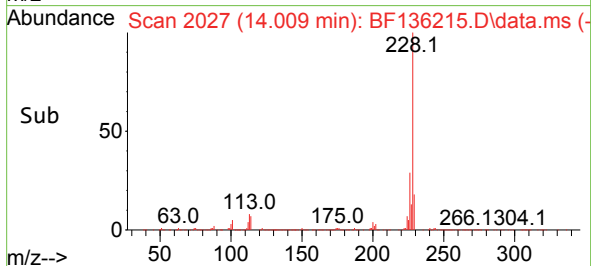
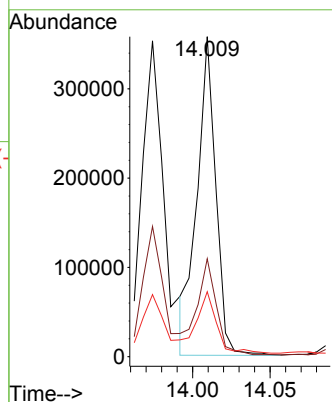
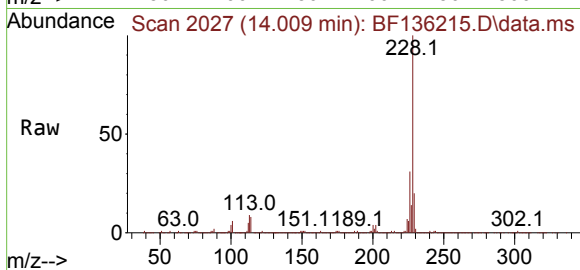
Tgt Ion:228 Resp: 299915

Ion Ratio Lower Upper

228 100

226 30.6 21.3 31.9

229 20.3 15.9 23.9



#83

Chrysene

Concen: 16.236 ng

RT: 14.009 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

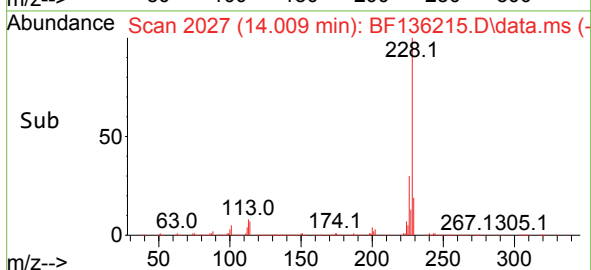
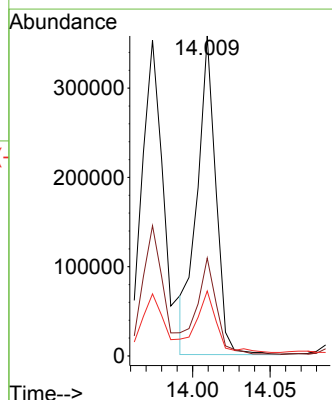
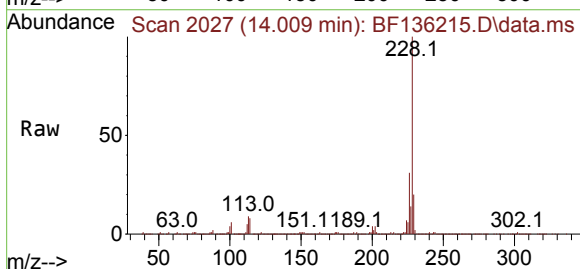
Tgt Ion:228 Resp: 299915

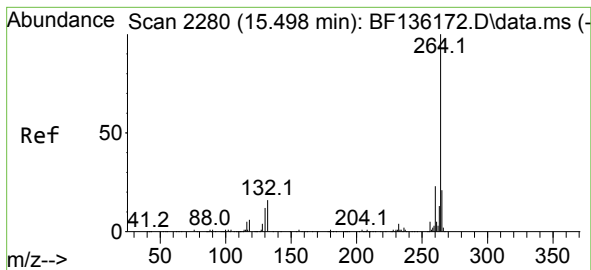
Ion Ratio Lower Upper

228 100

226 30.6 23.8 35.6

229 20.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

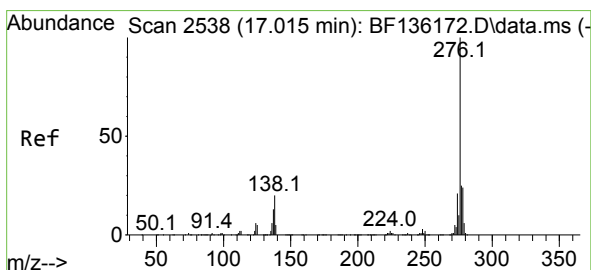
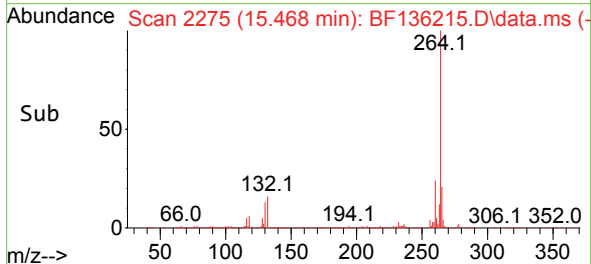
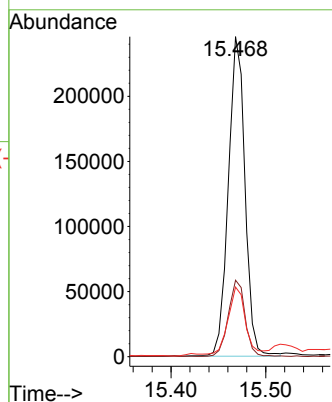
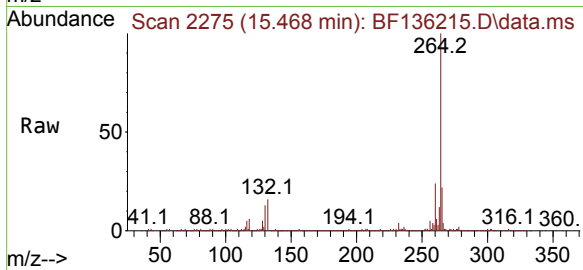
Tgt Ion:264 Resp: 300245

Ion Ratio Lower Upper

264 100

260 23.9 18.5 27.7

265 21.8 16.9 25.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.786 ng

RT: 16.968 min Scan# 2530

Delta R.T. -0.012 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

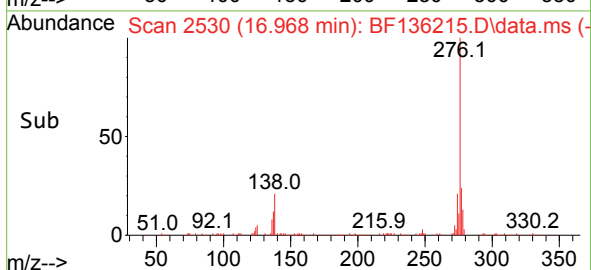
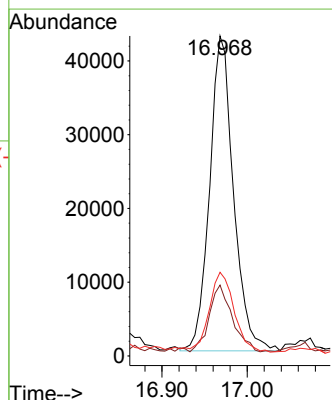
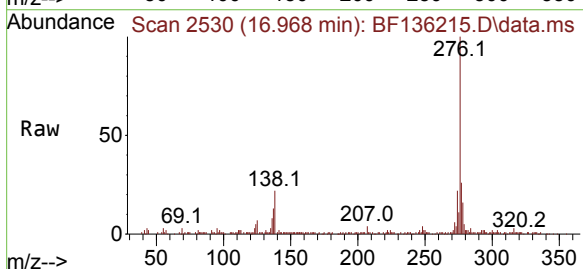
Tgt Ion:276 Resp: 83291

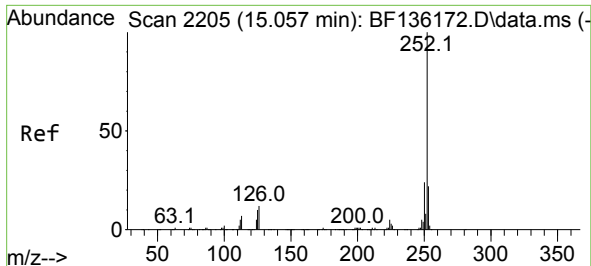
Ion Ratio Lower Upper

276 100

138 20.6 17.7 26.5

277 25.9 20.6 31.0

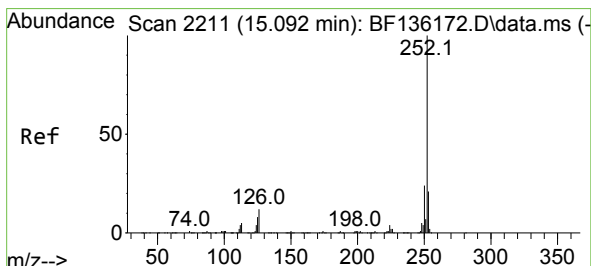
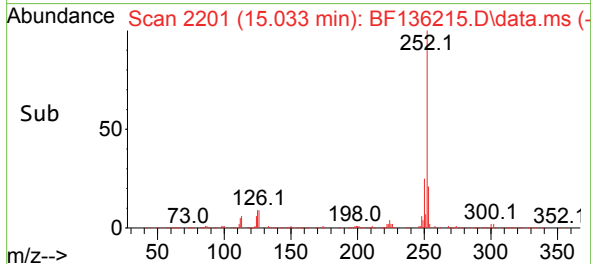
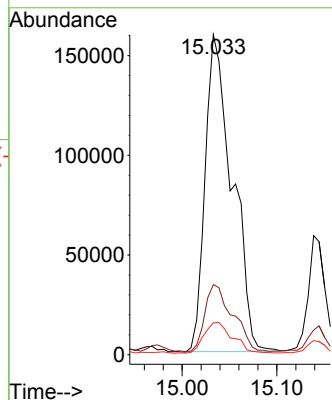
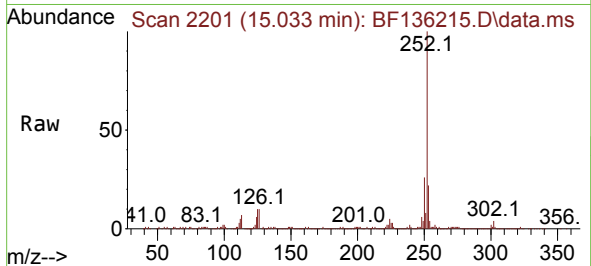




#88
Benzo(b)fluoranthene
Concen: 19.078 ng
RT: 15.033 min Scan# 2201
Delta R.T. -0.000 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

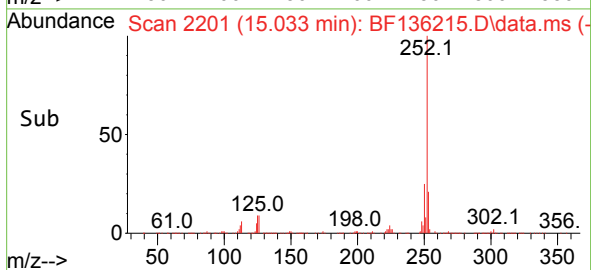
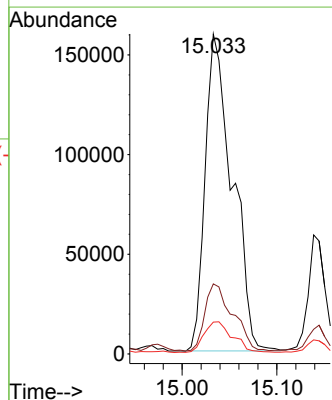
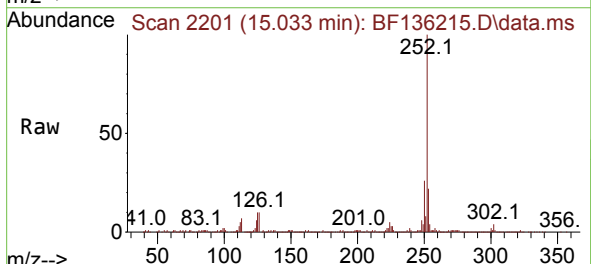
Instrument :
BNA_F
ClientSampleId :

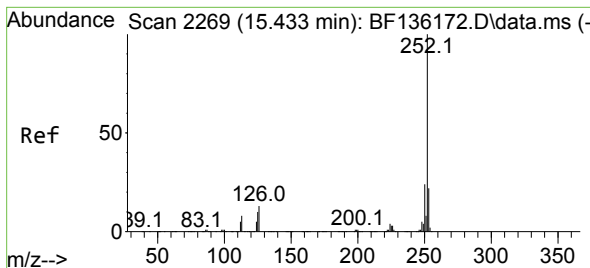
Tgt Ion:252 Resp: 316248
Ion Ratio Lower Upper
252 100
253 21.9 17.6 26.4
125 10.0 7.8 11.8



#89
Benzo(k)fluoranthene
Concen: 18.945 ng
RT: 15.033 min Scan# 2201
Delta R.T. -0.030 min
Lab File: BF136215.D
Acq: 25 Nov 2023 10:52

Tgt Ion:252 Resp: 316248
Ion Ratio Lower Upper
252 100
253 21.9 17.3 25.9
125 10.0 6.7 10.1





#90

Benzo(a)pyrene

Concen: 16.864 ng

RT: 15.403 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Instrument :

BNA_F

ClientSampleId :

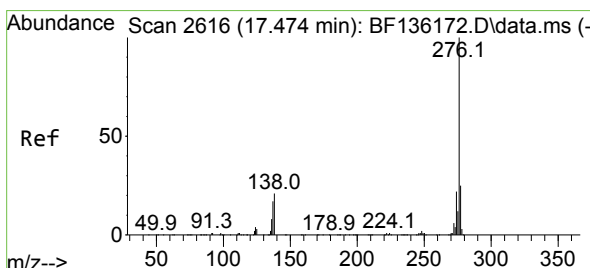
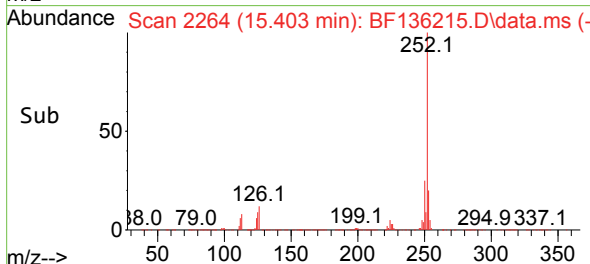
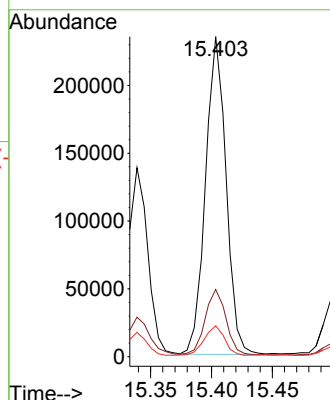
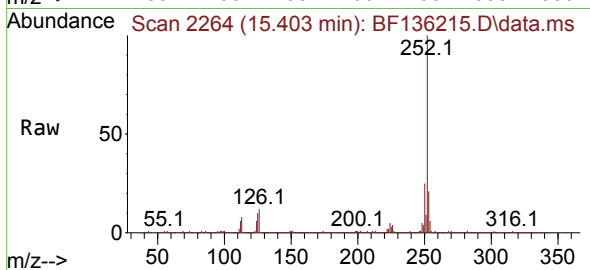
Tgt Ion:252 Resp: 275724

Ion Ratio Lower Upper

252 100

253 21.0 17.3 25.9

125 9.7 7.7 11.5



#92

Benzo(g,h,i)perylene

Concen: 4.949 ng

RT: 17.427 min Scan# 2608

Delta R.T. -0.012 min

Lab File: BF136215.D

Acq: 25 Nov 2023 10:52

Tgt Ion:276 Resp: 91478

Ion Ratio Lower Upper

276 100

277 25.3 19.8 29.6

138 20.5 16.4 24.6

