

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122823\
 Data File : BF136816.D
 Acq On : 29 Dec 2023 02:57
 Operator : CG\JU
 Sample : 06033-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-05-122723

Quant Time: Dec 29 03:20:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

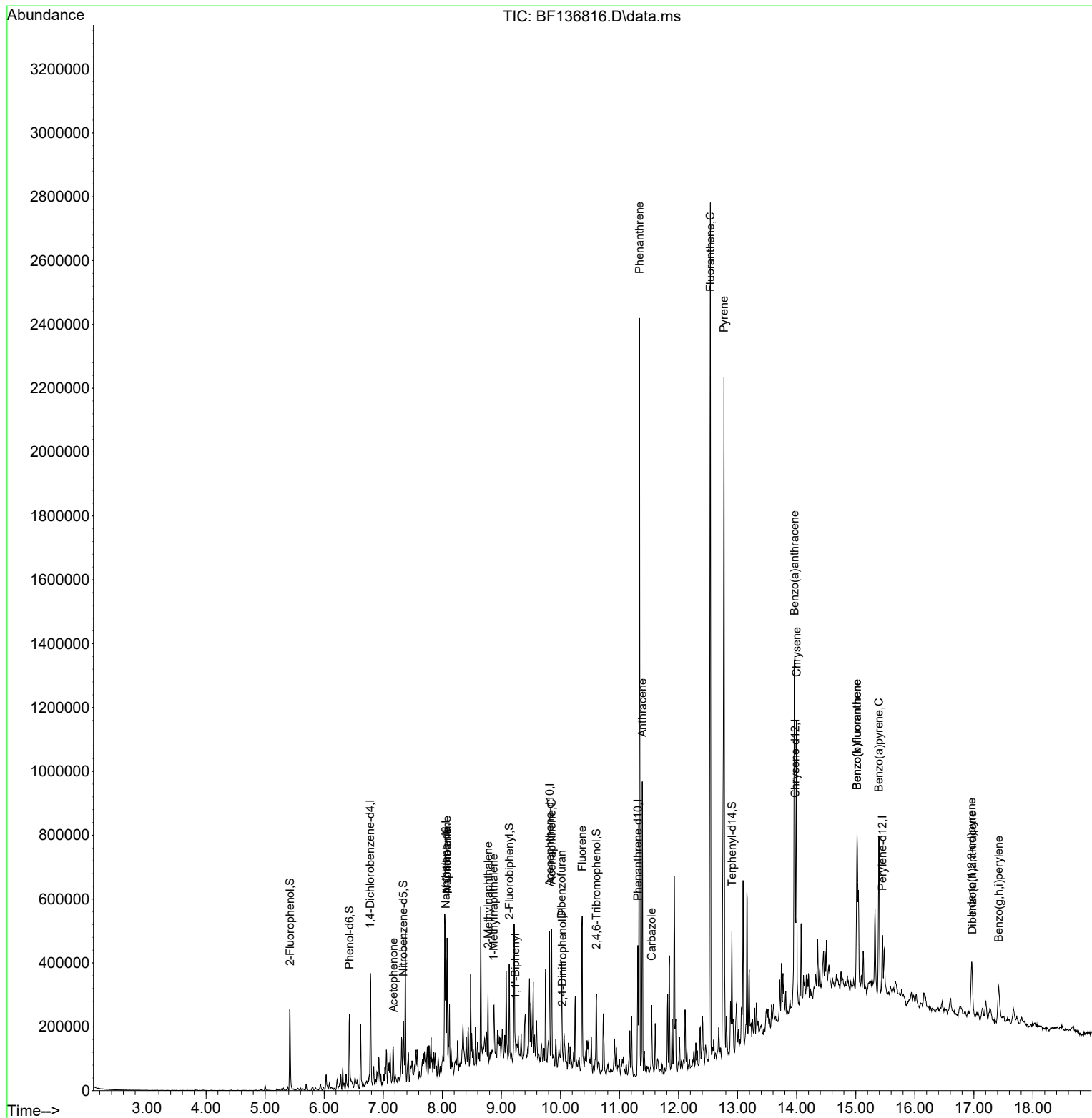
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	48442	20.000	ng	-0.01
21) Naphthalene-d8	8.057	136	147672	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	70703	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	158684	20.000	ng	0.00
76) Chrysene-d12	13.974	240	104180	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	84383	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	79025	25.453	ng	0.00
7) Phenol-d6	6.428	99	86196	21.426	ng	-0.01
23) Nitrobenzene-d5	7.339	82	45222	15.670	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	21568	25.902	ng	-0.01
45) 2-Fluorobiphenyl	9.133	172	84103	15.999	ng	-0.02
79) Terphenyl-d14	12.904	244	118646	15.915	ng	-0.01
Target Compounds						Qvalue
22) Acetophenone	7.175	105	8822	2.383	ng	# 50
31) Naphthalene	8.081	128	135284	16.676	ng	99
33) 4-Chloroaniline	8.081	127	18808	6.279	ng	# 36
37) 2-Methylnaphthalene	8.775	142	54468	10.432	ng	96
38) 1-Methylnaphthalene	8.869	142	43015	8.398	ng	99
46) 1,1'-Biphenyl	9.239	154	12145	2.047	ng	96
52) Acenaphthene	9.851	154	79990	18.718	ng	98
54) 2,4-Dinitrophenol	10.033	184	71	3.839	ng	# 1
55) Dibenzofuran	10.022	168	89630	13.836	ng	96
58) Fluorene	10.369	166	133050	25.885	ng	95
71) Phenanthrene	11.339	178	833291	102.342	ng	99
72) Anthracene	11.386	178	323737	39.261	ng	99
73) Carbazole	11.545	167	78251	10.065	ng	99
75) Fluoranthene	12.539	202	1145964	131.579	ng	96
78) Pyrene	12.769	202	975010	95.337	ng	100
81) Benzo(a)anthracene	13.963	228	420400	58.113	ng	98
83) Chrysene	13.998	228	308941	43.671	ng	96
87) Indeno(1,2,3-cd)pyrene	16.962	276	118579	19.463	ng	94
88) Benzo(b)fluoranthene	15.021	252	407510	72.305	ng	# 95
89) Benzo(k)fluoranthene	15.021	252	407510	76.520	ng	95
90) Benzo(a)pyrene	15.392	252	222536	46.777	ng	96
91) Dibenzo(a,h)anthracene	16.974	278	29479	5.898	ng	# 85
92) Benzo(g,h,i)perylene	17.421	276	104621	20.436	ng	96

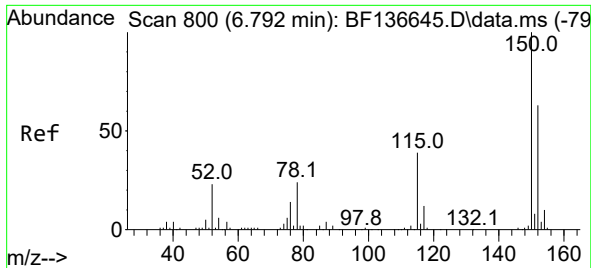
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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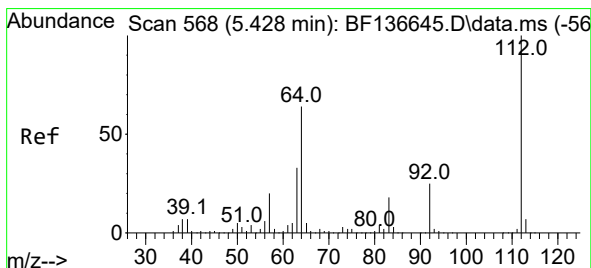
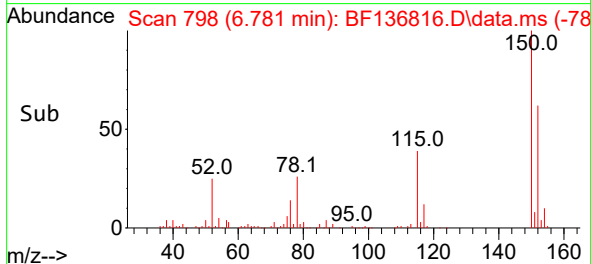
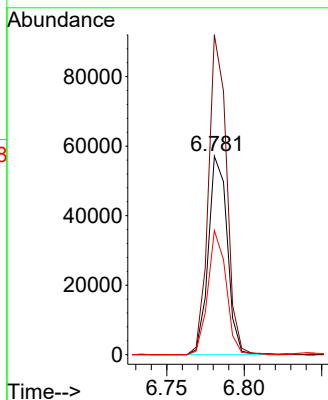
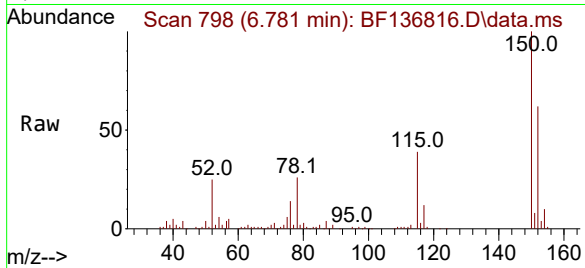




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

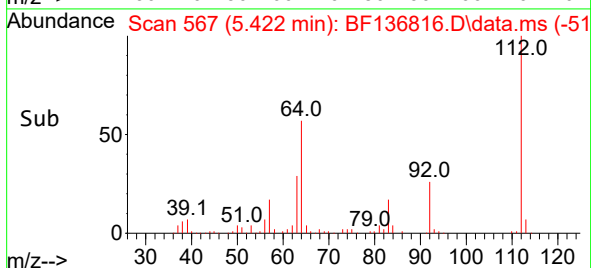
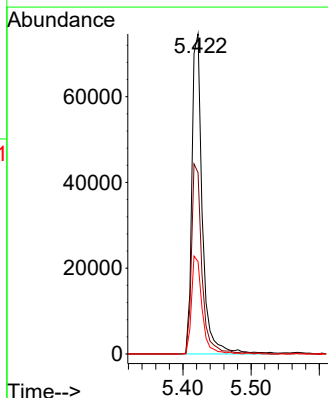
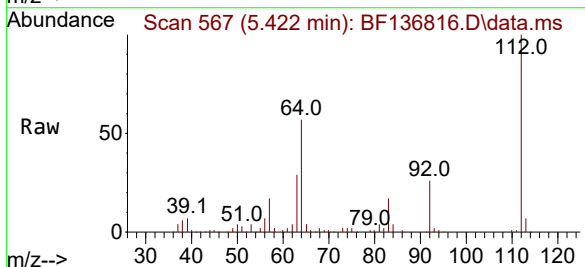
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

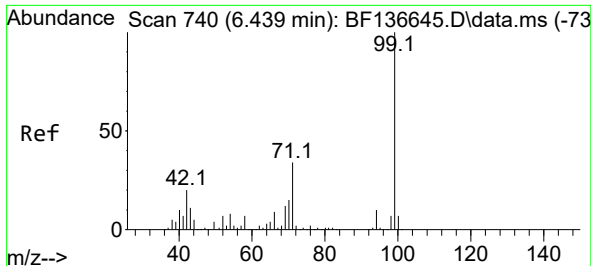
Tgt Ion:152 Resp: 48442
Ion Ratio Lower Upper
152 100
150 161.1 127.0 190.6
115 62.5 49.0 73.4



#5
2-Fluorophenol
Concen: 25.453 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:112 Resp: 79025
Ion Ratio Lower Upper
112 100
64 56.7 51.1 76.7
63 28.8 26.1 39.1

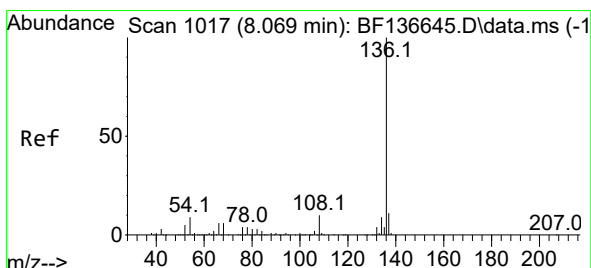
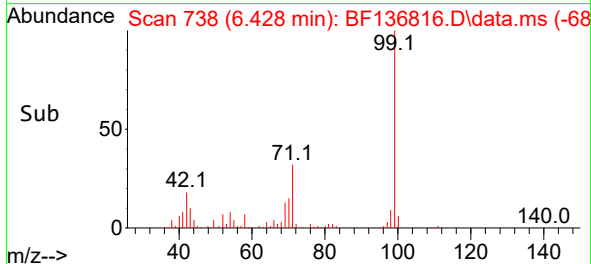
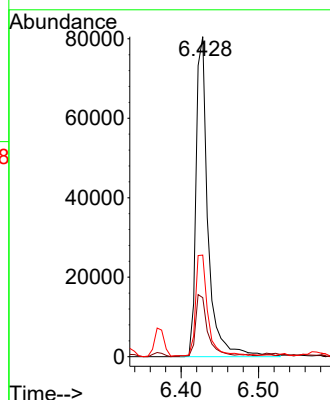
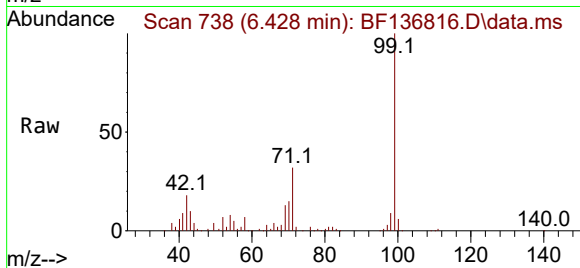




#7
Phenol-d6
Concen: 21.426 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

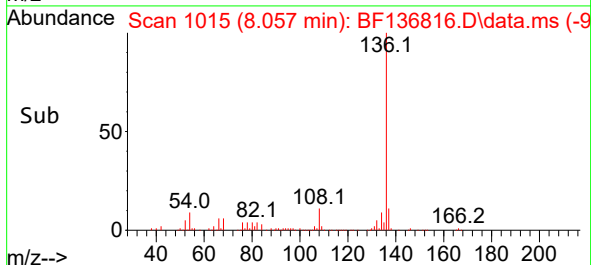
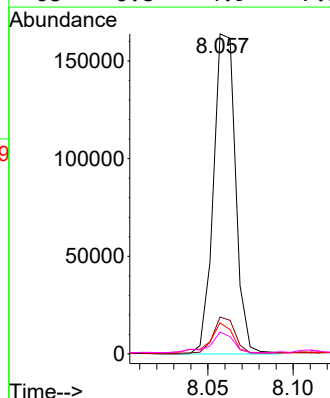
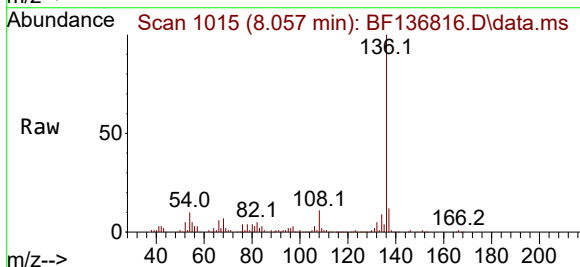
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

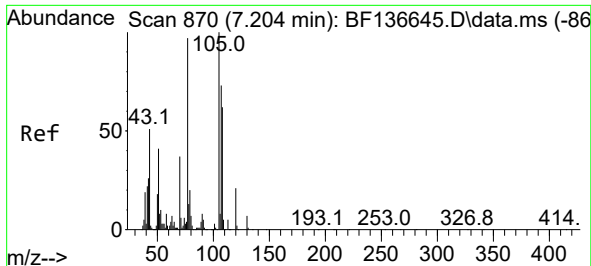
Tgt Ion: 99 Resp: 86196
Ion Ratio Lower Upper
99 100
42 18.4 16.1 24.1
71 31.8 27.4 41.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

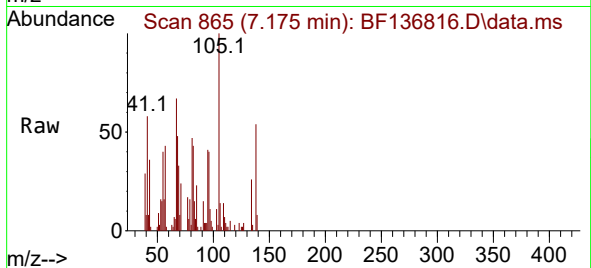
Tgt Ion:136 Resp: 147672
Ion Ratio Lower Upper
136 100
137 11.6 9.0 13.4
54 9.7 7.2 10.8
68 6.8 4.9 7.3



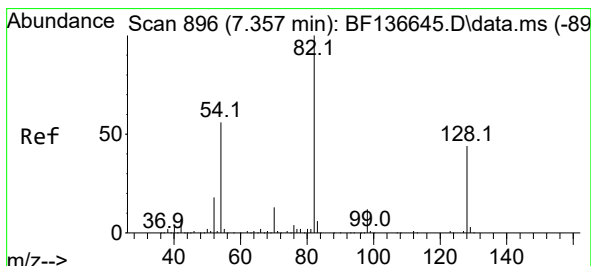
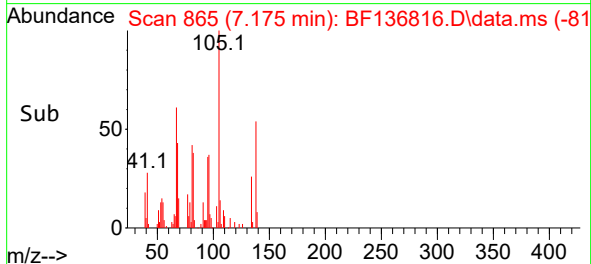
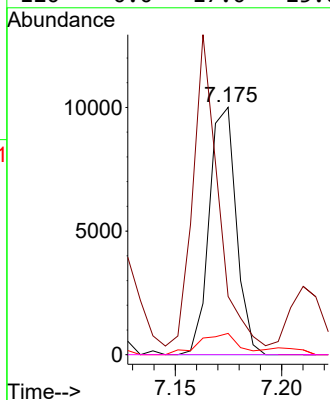


#22
Acetophenone
Concen: 2.383 ng
RT: 7.175 min Scan# 80
Delta R.T. -0.029 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Instrument :
BNA_F
ClientSampleId :
OR-05-122723

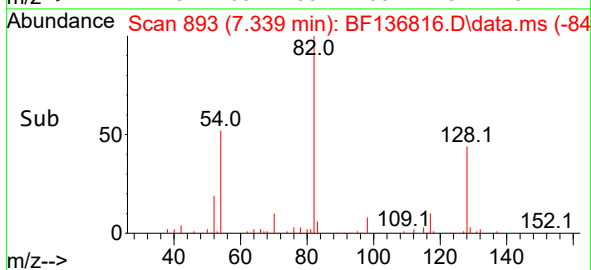
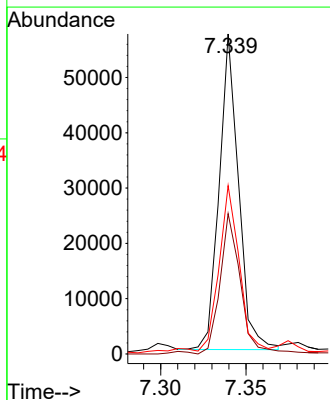
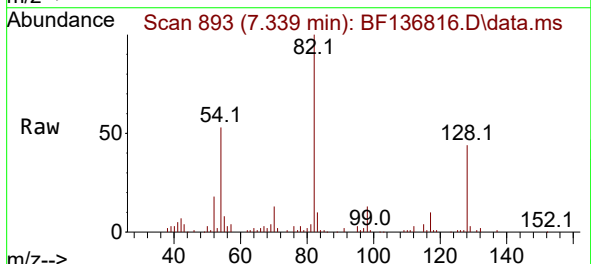


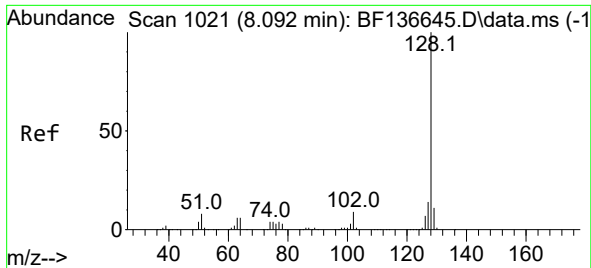
Tgt Ion:105 Resp: 8822
Ion Ratio Lower Upper
105 100
71 23.6 4.8 7.2#
51 8.6 32.8 49.2#
120 0.0 17.0 25.6#



#23
Nitrobenzene-d5
Concen: 15.670 ng
RT: 7.339 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion: 82 Resp: 45222
Ion Ratio Lower Upper
82 100
128 43.8 35.3 52.9
54 52.6 44.5 66.7

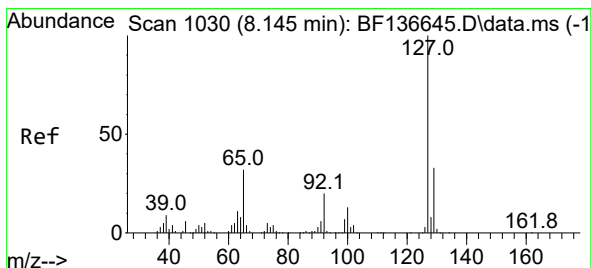
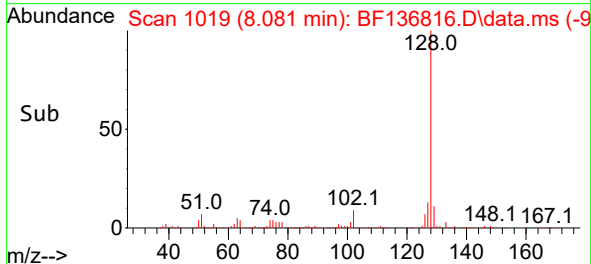
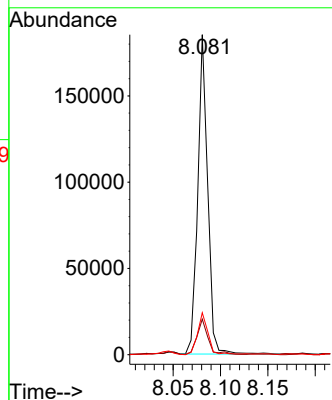
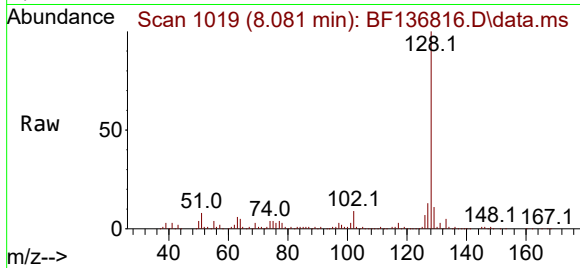




#31
Naphthalene
Concen: 16.676 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

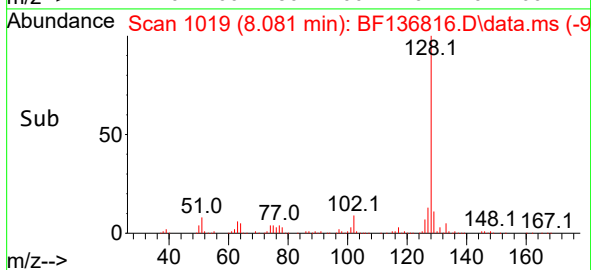
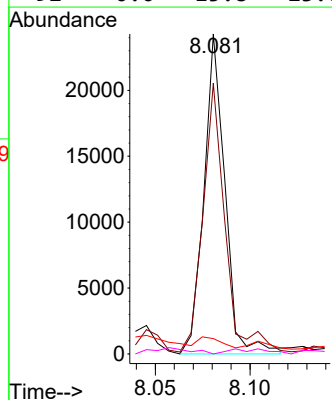
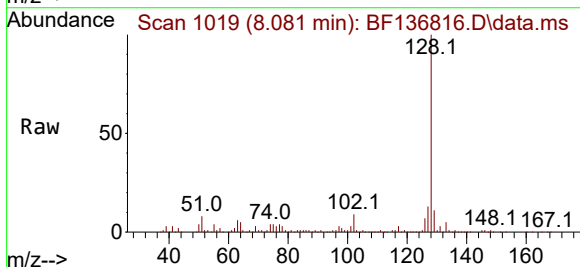
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

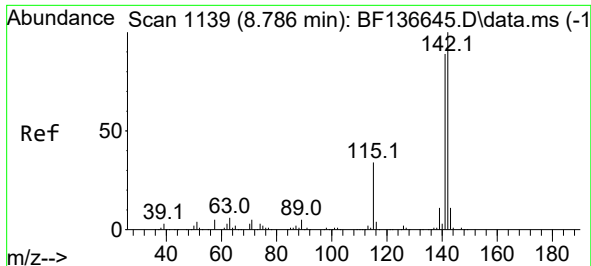
Tgt Ion:128 Resp: 135284
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.1 10.8 16.2



#33
4-Chloroaniline
Concen: 6.279 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.065 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:127 Resp: 18808
Ion Ratio Lower Upper
127 100
129 84.6 26.3 39.5#
65 4.8 25.8 38.8#
92 0.0 15.8 23.6#





#37

2-Methylnaphthalene

Concen: 10.432 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

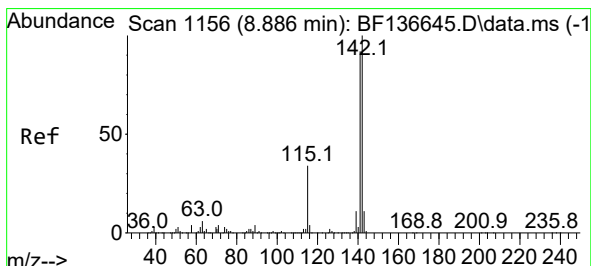
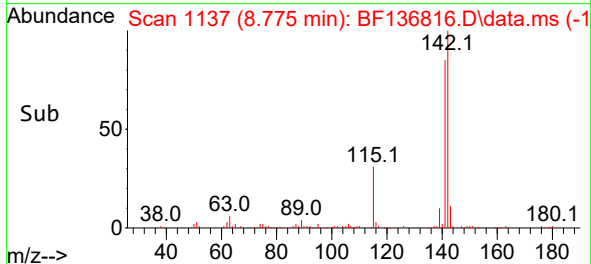
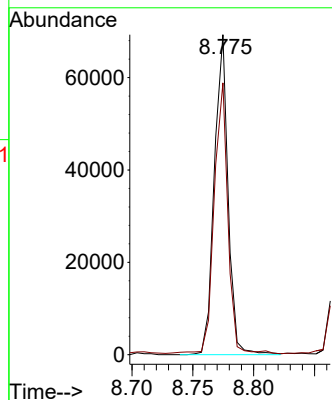
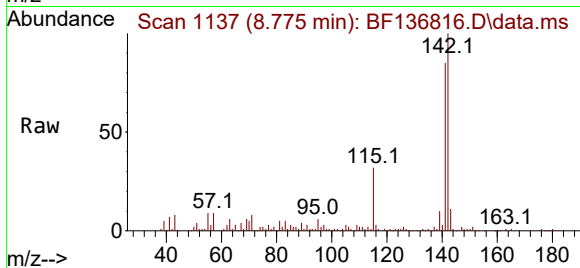
OR-05-122723

Tgt Ion:142 Resp: 54468

Ion Ratio Lower Upper

142 100

141 85.0 71.1 106.7



#38

1-Methylnaphthalene

Concen: 8.398 ng

RT: 8.869 min Scan# 1153

Delta R.T. -0.018 min

Lab File: BF136816.D

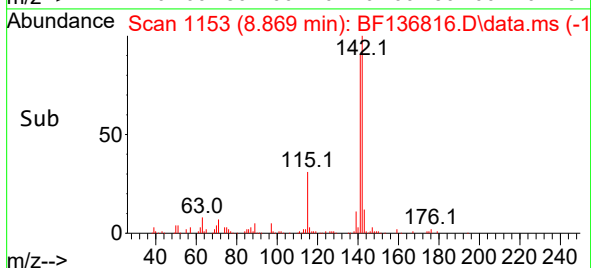
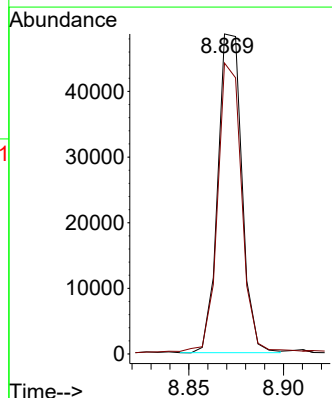
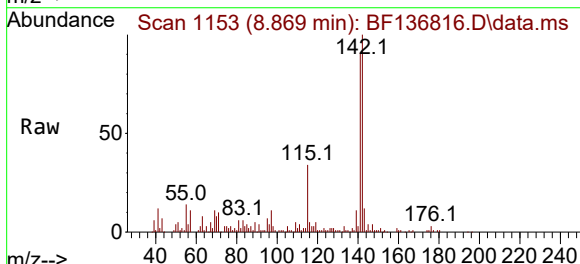
Acq: 29 Dec 2023 02:57

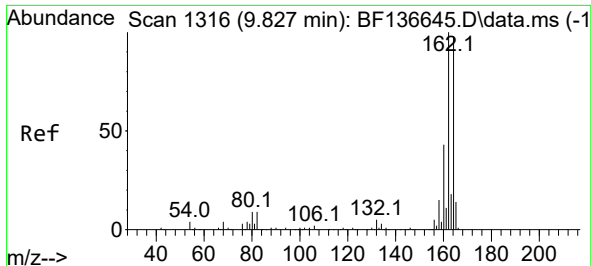
Tgt Ion:142 Resp: 43015

Ion Ratio Lower Upper

142 100

141 90.9 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

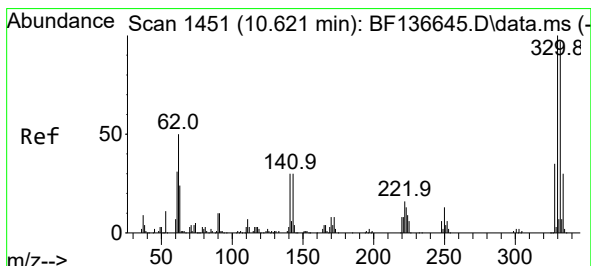
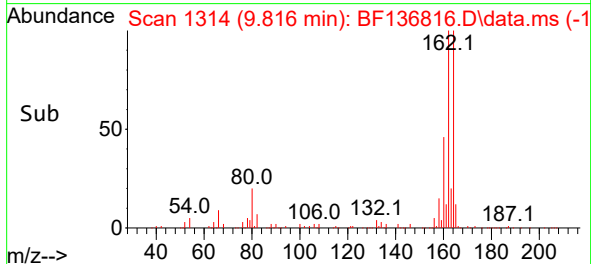
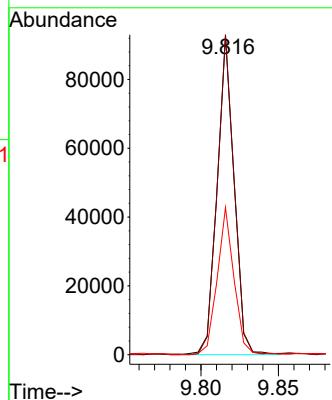
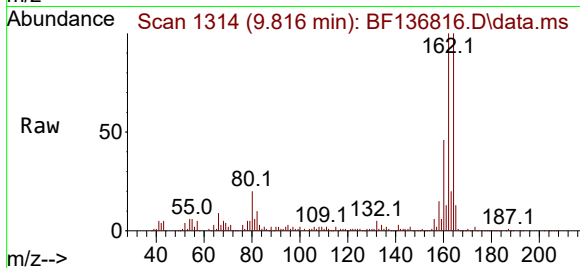
Tgt Ion:164 Resp: 70703

Ion Ratio Lower Upper

164 100

162 100.2 81.6 122.4

160 46.1 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 25.902 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

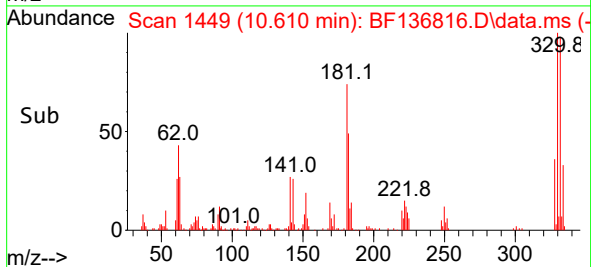
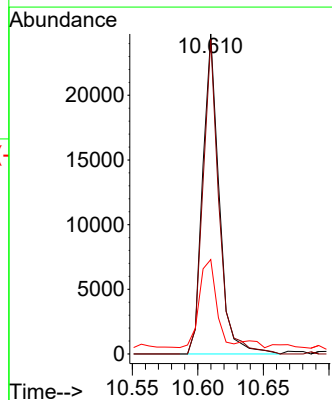
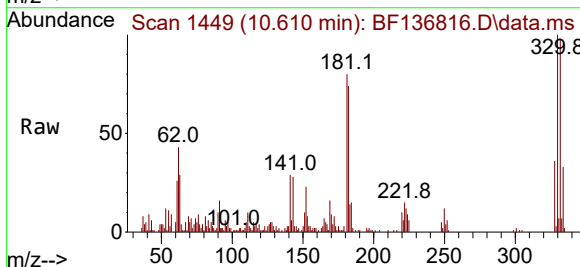
Tgt Ion:330 Resp: 21568

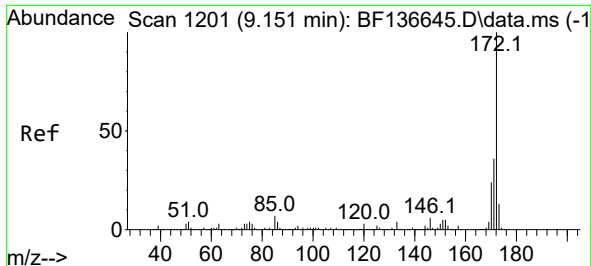
Ion Ratio Lower Upper

330 100

332 95.6 77.4 116.0

141 29.0 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 15.999 ng

RT: 9.133 min Scan# 1198

Delta R.T. -0.018 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

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OR-05-122723

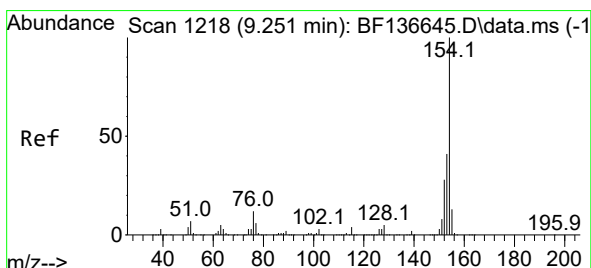
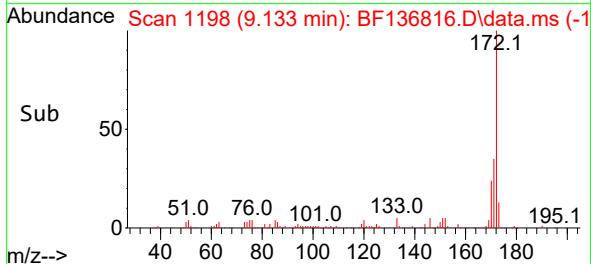
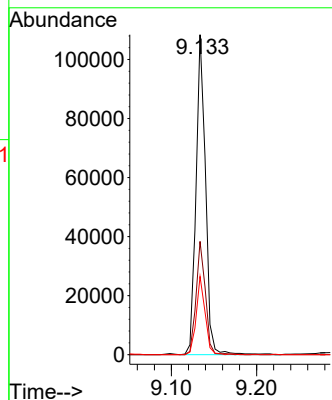
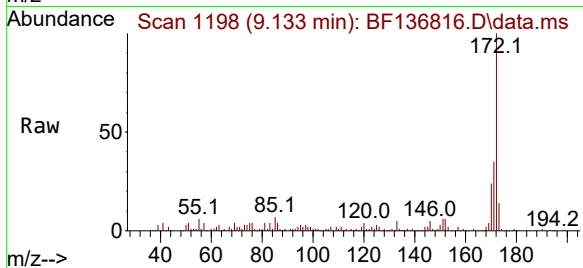
Tgt Ion:172 Resp: 84103

Ion Ratio Lower Upper

172 100

171 35.4 29.0 43.6

170 24.4 19.0 28.4



#46

1,1'-Biphenyl

Concen: 2.047 ng

RT: 9.239 min Scan# 1216

Delta R.T. -0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

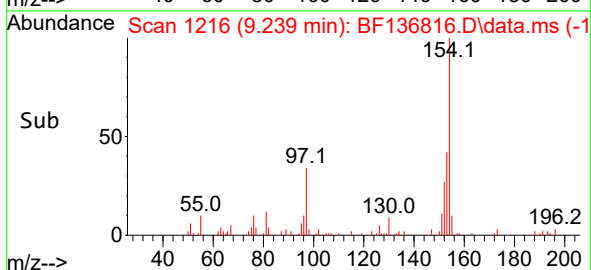
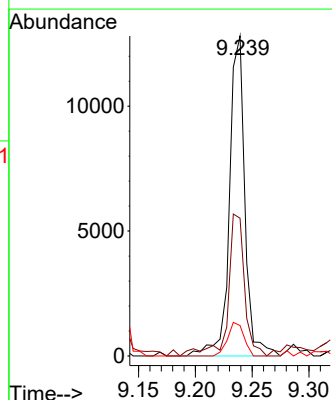
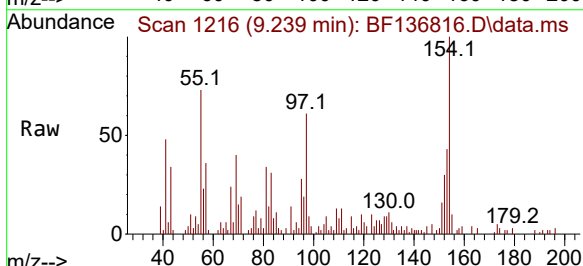
Tgt Ion:154 Resp: 12145

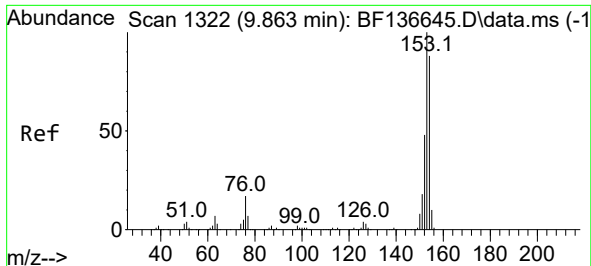
Ion Ratio Lower Upper

154 100

153 43.0 21.1 61.1

76 9.5 0.0 31.7

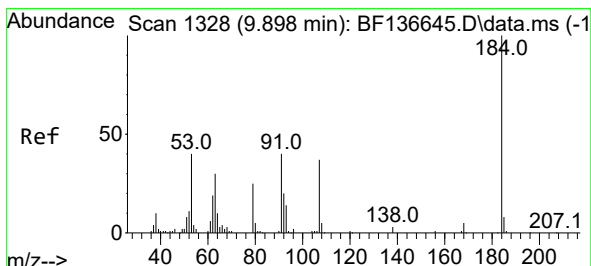
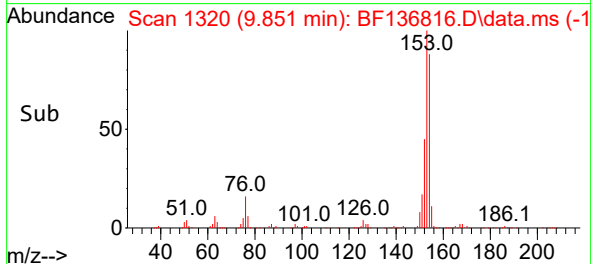
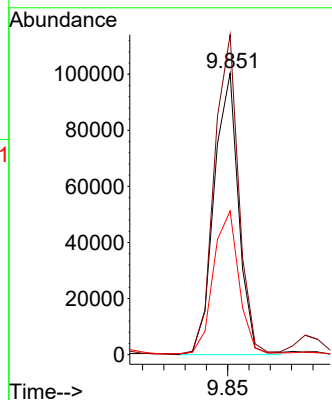
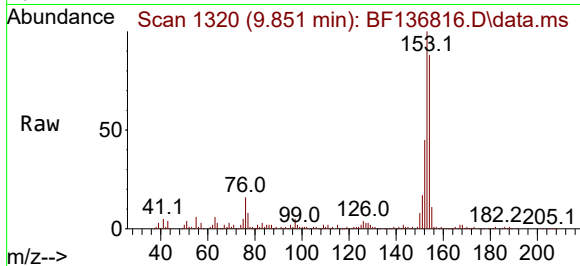




#52
Acenaphthene
Concen: 18.718 ng
RT: 9.851 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

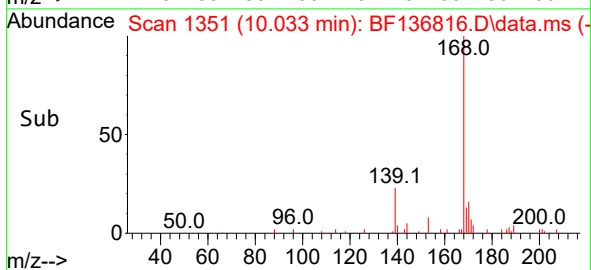
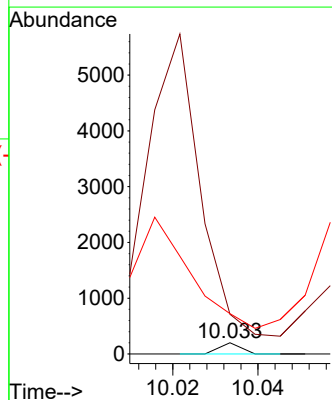
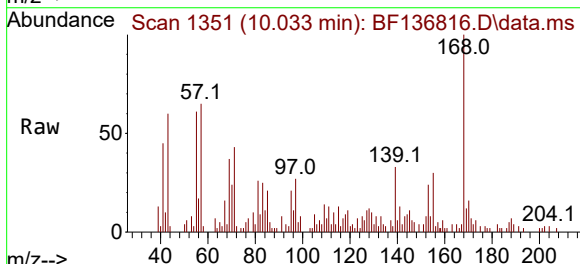
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

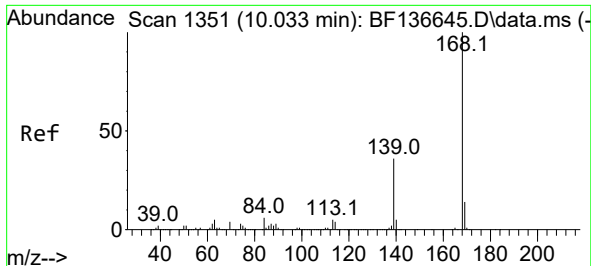
Tgt Ion:154 Resp: 79990
Ion Ratio Lower Upper
154 100
153 113.7 90.7 136.1
152 51.1 43.7 65.5



#54
2,4-Dinitrophenol
Concen: 3.839 ng
RT: 10.033 min Scan# 1351
Delta R.T. 0.135 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:184 Resp: 71
Ion Ratio Lower Upper
184 100
63 353.0 40.9 61.3#
154 358.4 42.7 64.1#

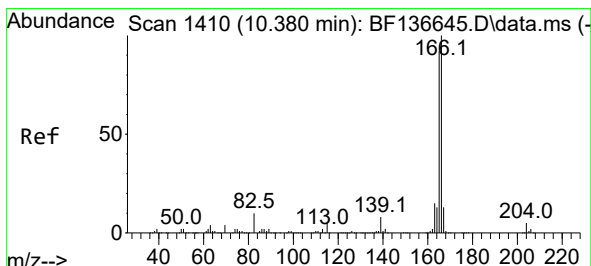
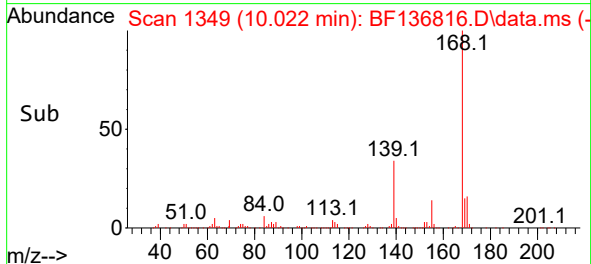
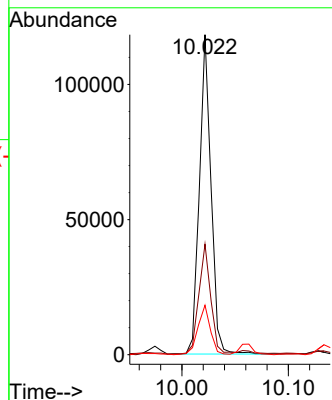
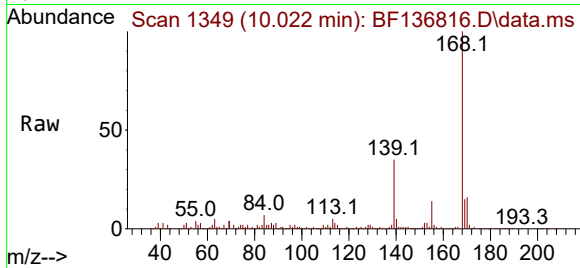




#55
Dibenzenofuran
Concen: 13.836 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

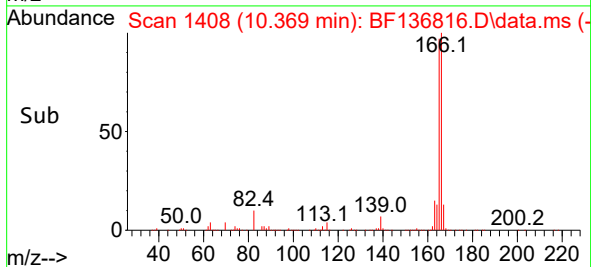
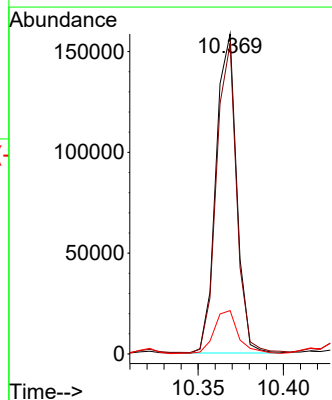
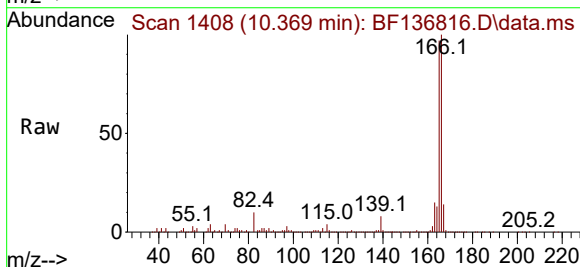
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

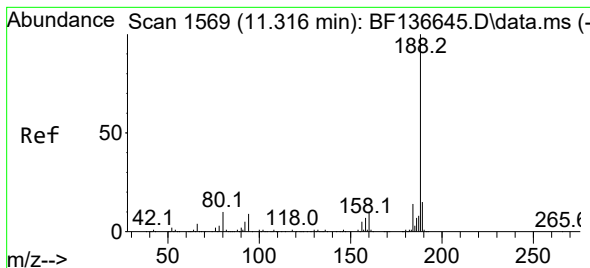
Tgt Ion:168 Resp: 89630
Ion Ratio Lower Upper
168 100
139 34.6 29.3 43.9
169 15.4 11.0 16.4



#58
Fluorene
Concen: 25.885 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:166 Resp: 133050
Ion Ratio Lower Upper
166 100
165 97.1 73.7 110.5
167 13.6 10.4 15.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

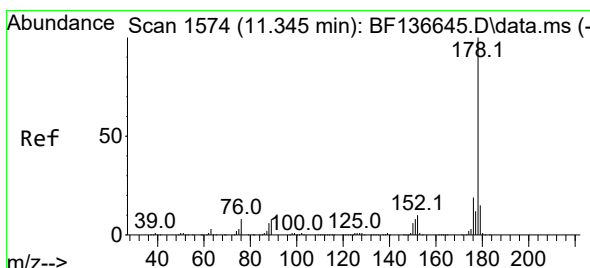
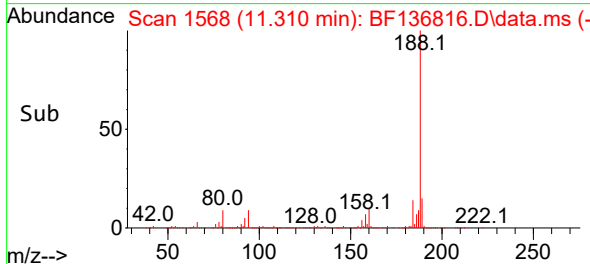
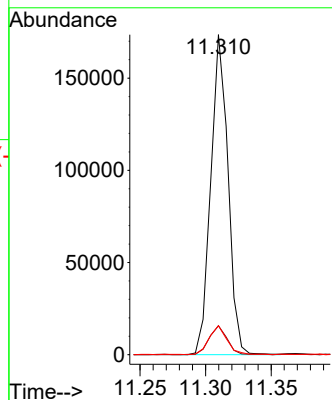
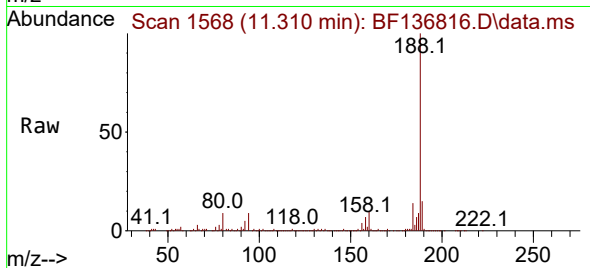
Tgt Ion:188 Resp: 158684

Ion Ratio Lower Upper

188 100

94 9.1 7.5 11.3

80 9.0 8.1 12.1



#71

Phenanthrene

Concen: 102.342 ng

RT: 11.339 min Scan# 1573

Delta R.T. -0.006 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

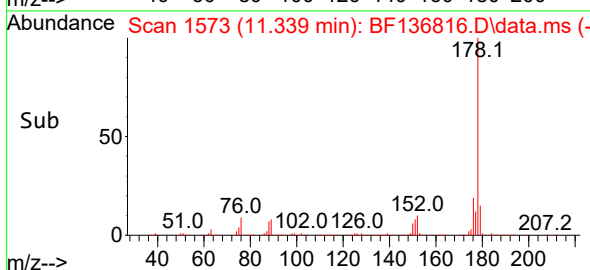
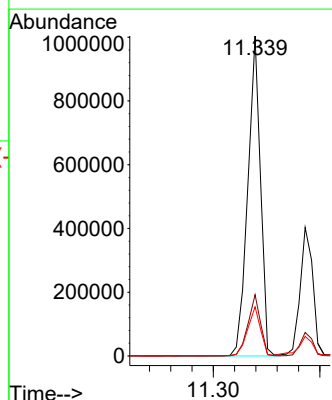
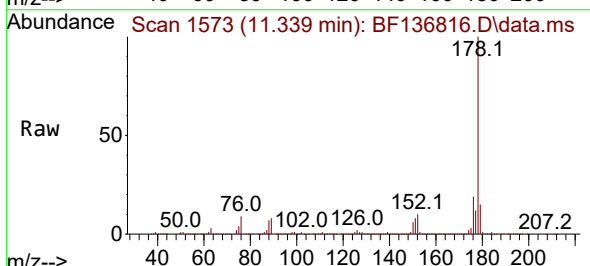
Tgt Ion:178 Resp: 833291

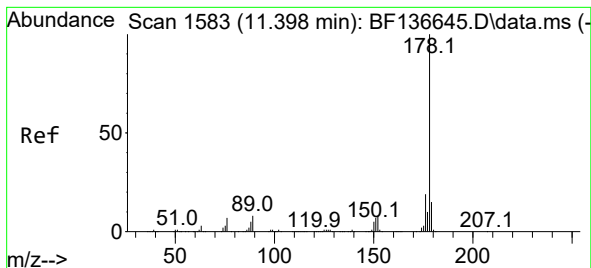
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.4 11.9 17.9





#72

Anthracene

Concen: 39.261 ng

RT: 11.386 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

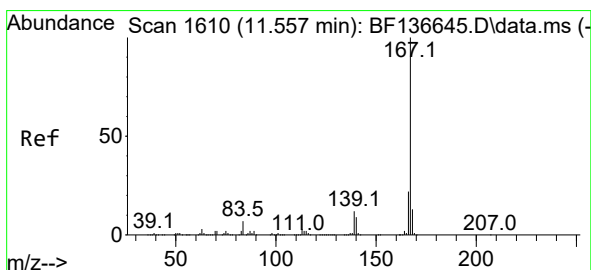
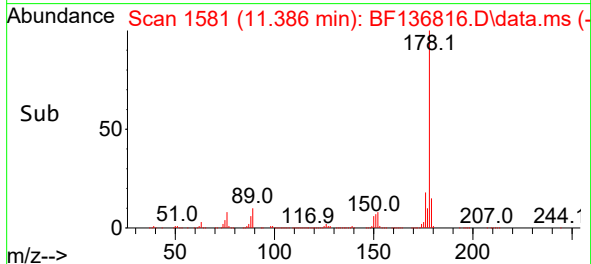
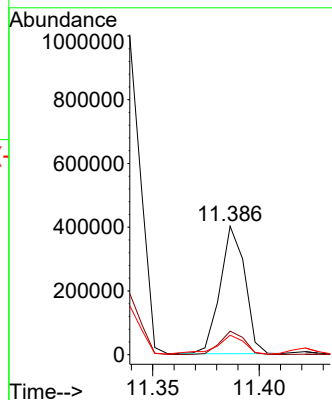
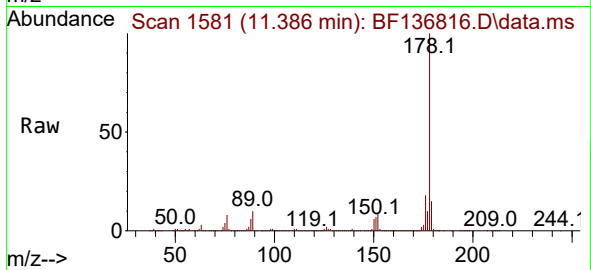
Tgt Ion:178 Resp: 323737

Ion Ratio Lower Upper

178 100

176 18.3 14.9 22.3

179 15.1 11.8 17.6



#73

Carbazole

Concen: 10.065 ng

RT: 11.545 min Scan# 1608

Delta R.T. -0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

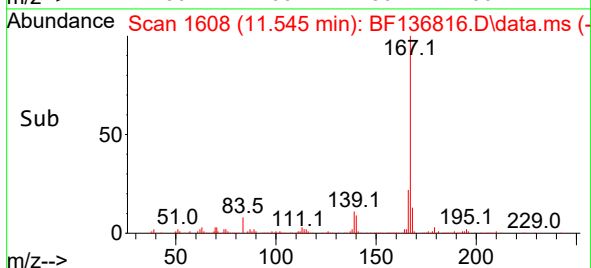
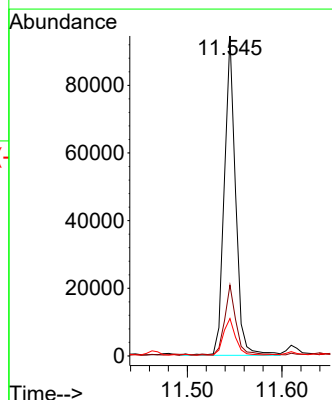
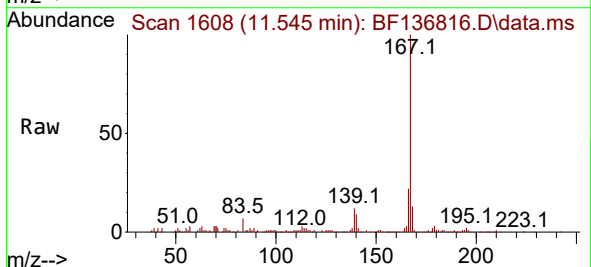
Tgt Ion:167 Resp: 78251

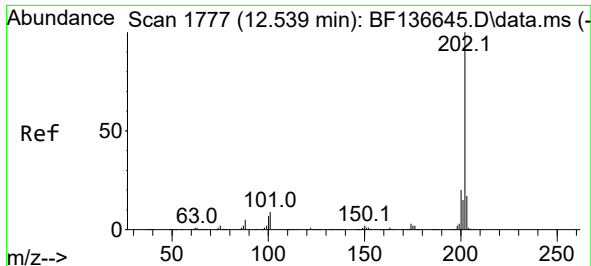
Ion Ratio Lower Upper

167 100

166 22.1 17.3 25.9

139 11.7 9.8 14.6

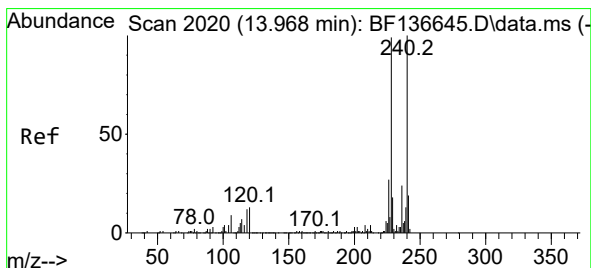
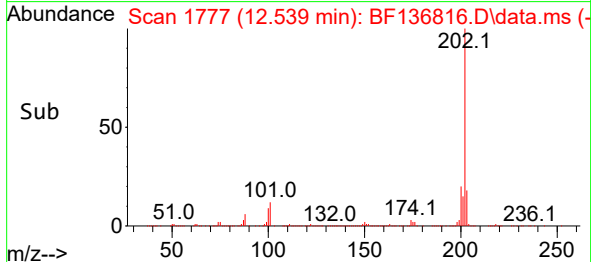
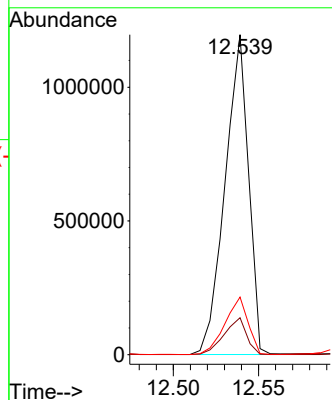
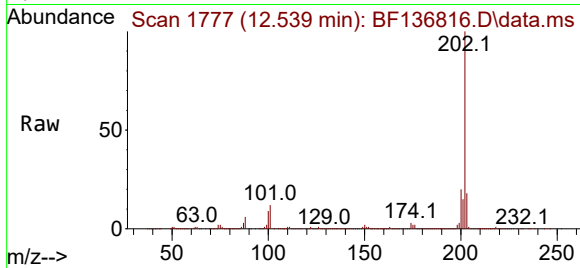




#75
Fluoranthene
Concen: 131.579 ng
RT: 12.539 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

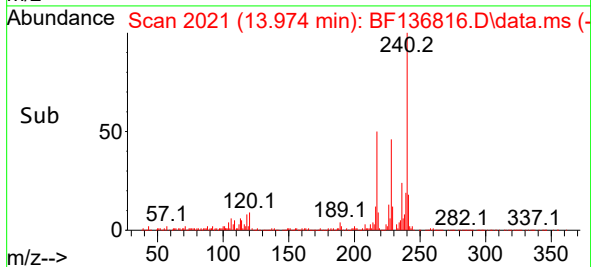
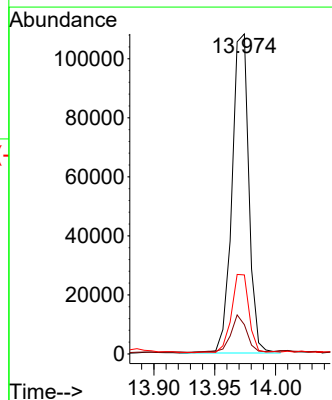
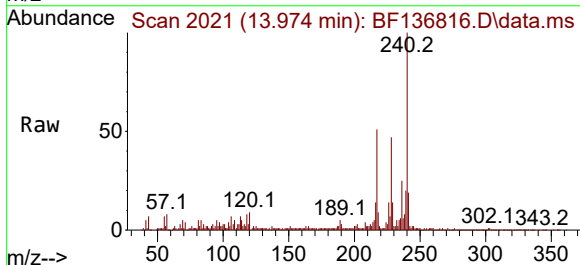
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

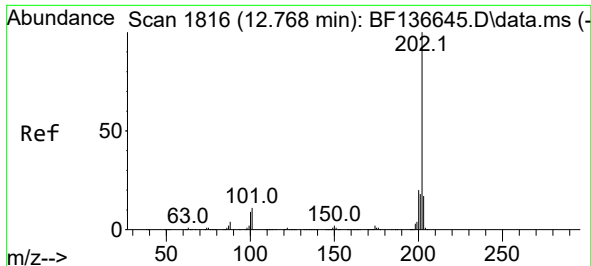
Tgt Ion:202 Resp: 1145964
Ion Ratio Lower Upper
202 100
101 11.5 0.0 29.3
203 18.0 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:240 Resp: 104180
Ion Ratio Lower Upper
240 100
120 9.2 10.3 15.5#
236 24.7 19.4 29.2

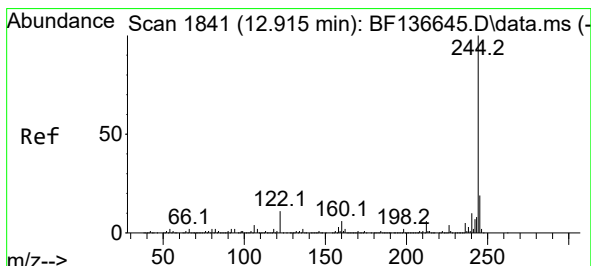
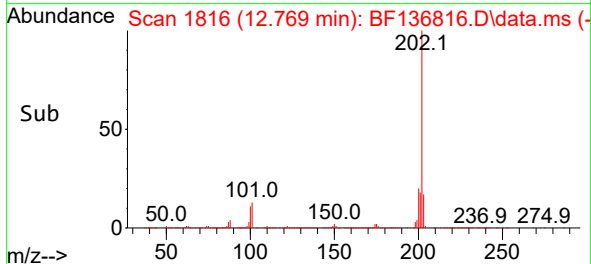
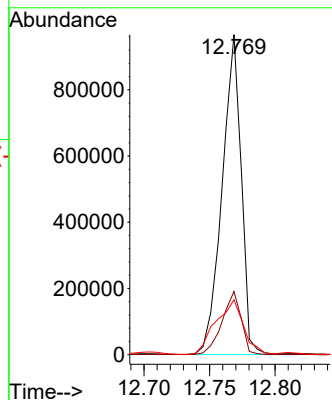
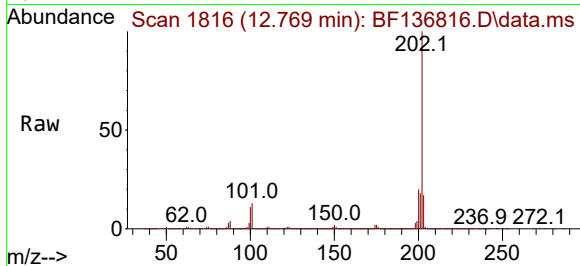




#78
Pyrene
Concen: 95.337 ng
RT: 12.769 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

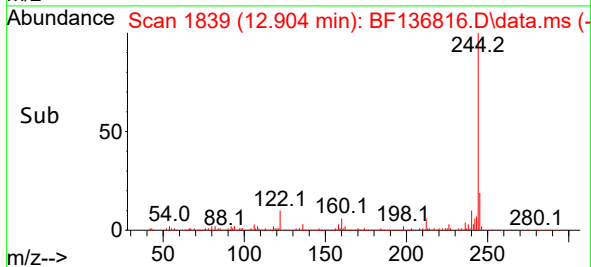
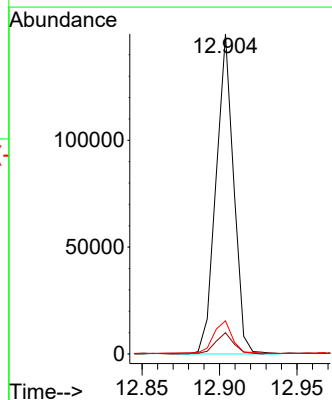
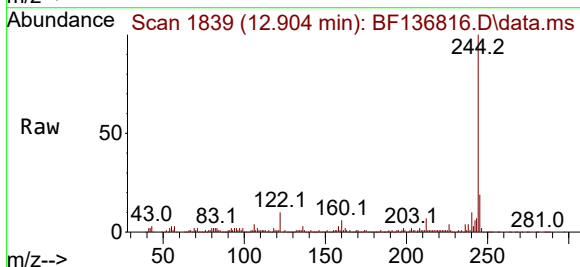
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

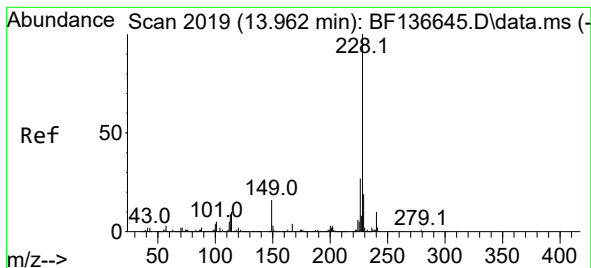
Tgt Ion:202 Resp: 975010
Ion Ratio Lower Upper
202 100
200 19.7 15.9 23.9
203 17.2 13.8 20.6



#79
Terphenyl-d14
Concen: 15.915 ng
RT: 12.904 min Scan# 1839
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:244 Resp: 118646
Ion Ratio Lower Upper
244 100
212 6.7 5.0 7.4
122 10.4 9.0 13.4





#81

Benzo(a)anthracene

Concen: 58.113 ng

RT: 13.963 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

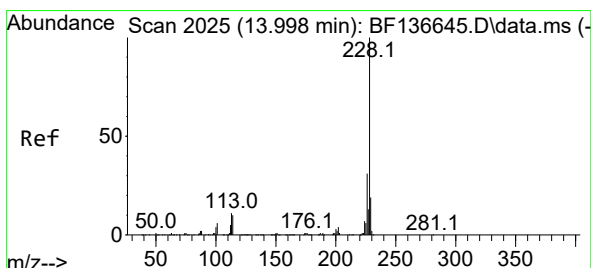
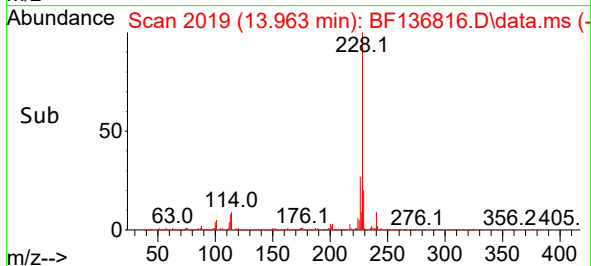
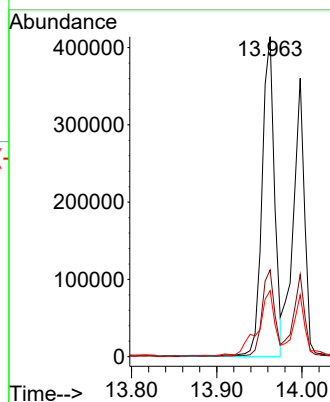
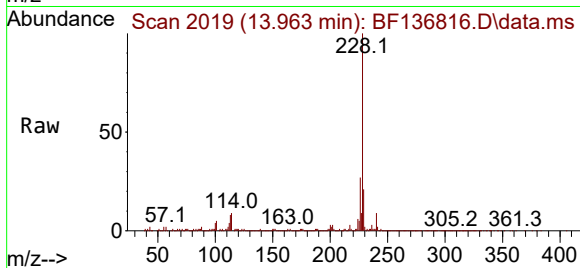
Tgt Ion:228 Resp: 420400

Ion Ratio Lower Upper

228 100

226 27.1 21.4 32.0

229 20.7 14.9 22.3



#83

Chrysene

Concen: 43.671 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.000 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

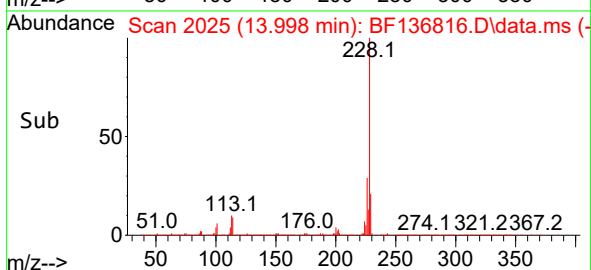
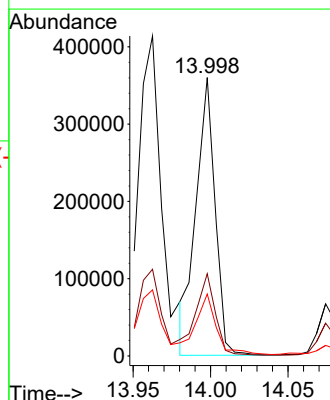
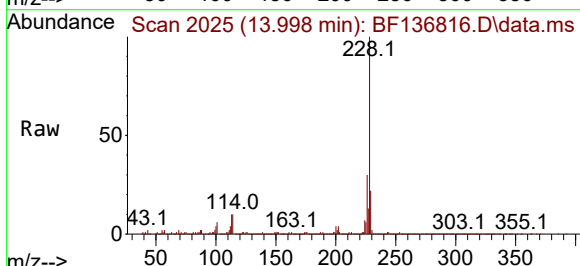
Tgt Ion:228 Resp: 308941

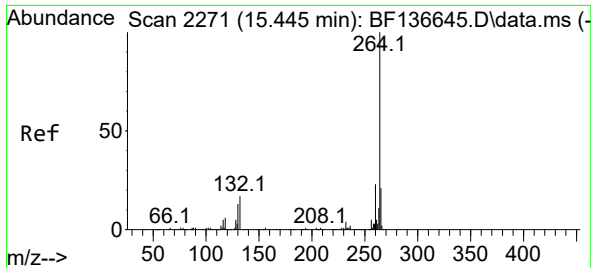
Ion Ratio Lower Upper

228 100

226 29.5 24.7 37.1

229 22.2 15.4 23.0

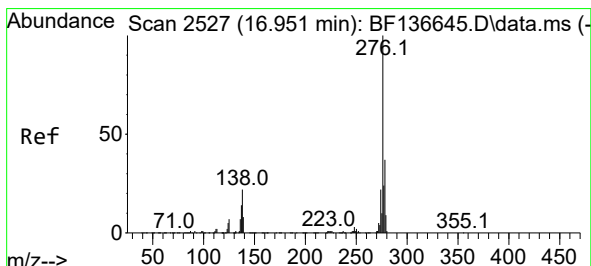
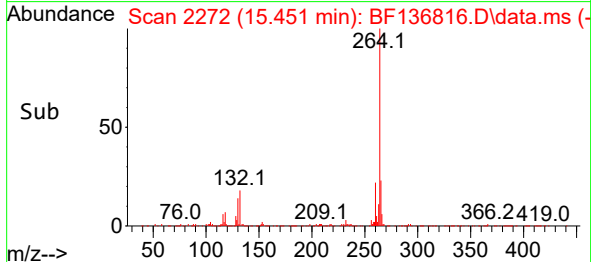
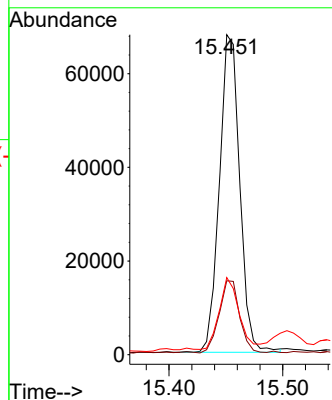
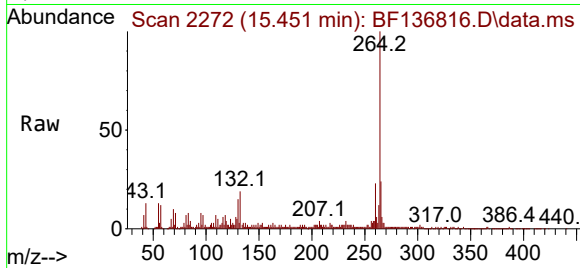




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

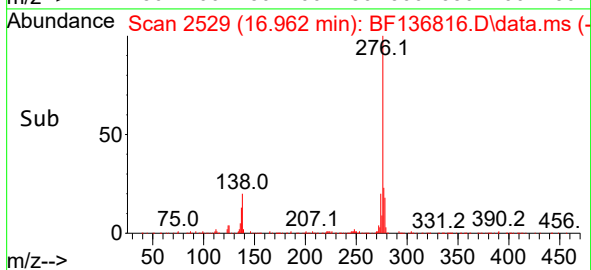
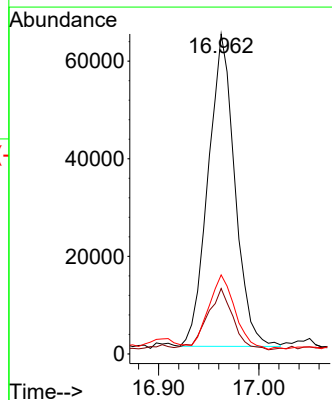
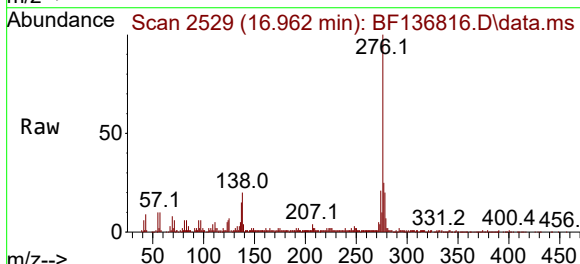
Instrument :
BNA_F
ClientSampleId :
OR-05-122723

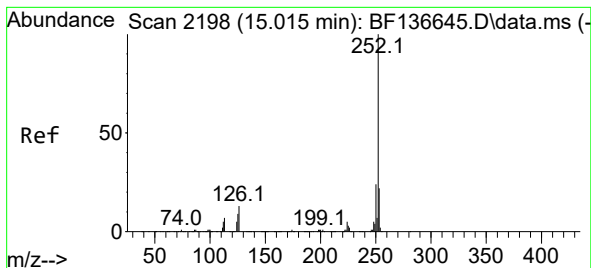
Tgt Ion:264 Resp: 84383
Ion Ratio Lower Upper
264 100
260 23.1 18.3 27.5
265 24.1 17.0 25.6



#87
Indeno(1,2,3-cd)pyrene
Concen: 19.463 ng
RT: 16.962 min Scan# 2529
Delta R.T. 0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:276 Resp: 118579
Ion Ratio Lower Upper
276 100
138 19.3 18.7 28.1
277 23.5 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 72.305 ng

RT: 15.021 min Scan# 2199

Delta R.T. 0.006 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

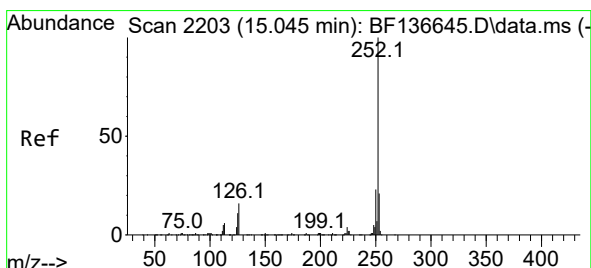
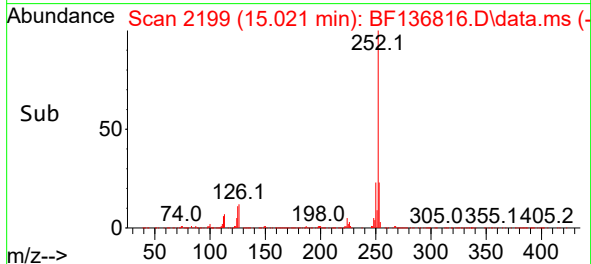
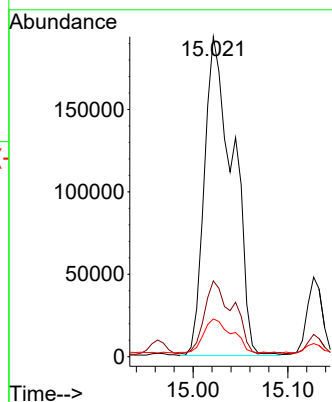
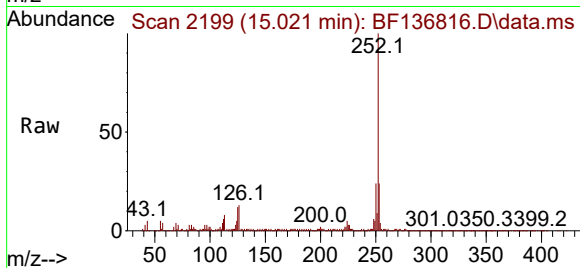
Tgt Ion:252 Resp: 407510

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 11.8 7.4 11.2#



#89

Benzo(k)fluoranthene

Concen: 76.520 ng

RT: 15.021 min Scan# 2199

Delta R.T. -0.023 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

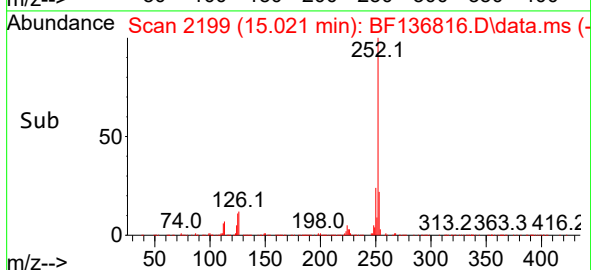
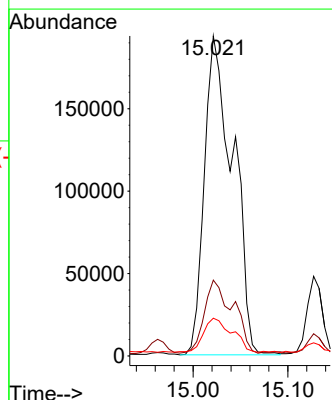
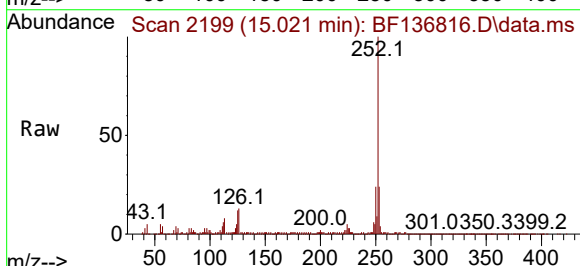
Tgt Ion:252 Resp: 407510

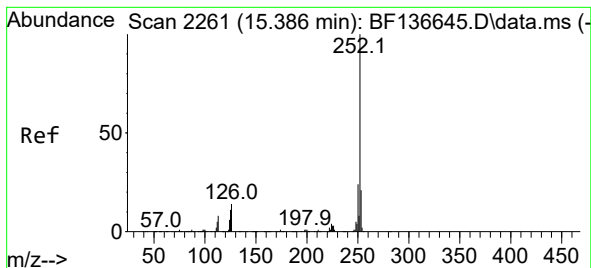
Ion Ratio Lower Upper

252 100

253 23.7 17.0 25.6

125 11.8 8.2 12.4





#90

Benzo(a)pyrene

Concen: 46.777 ng

RT: 15.392 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

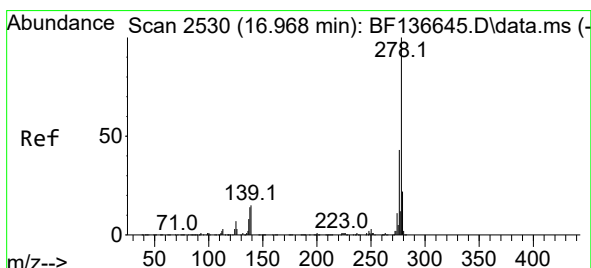
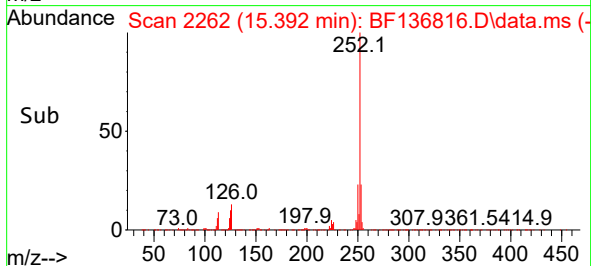
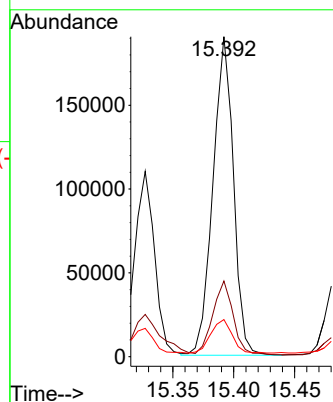
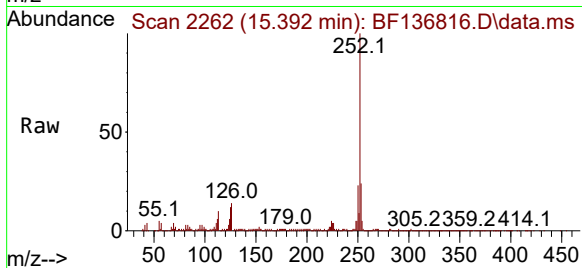
Tgt Ion:252 Resp: 222536

Ion Ratio Lower Upper

252 100

253 23.7 17.0 25.6

125 11.6 8.8 13.2



#91

Dibenzo(a,h)anthracene

Concen: 5.898 ng

RT: 16.974 min Scan# 2531

Delta R.T. 0.006 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

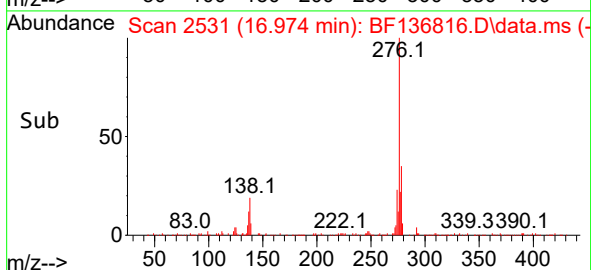
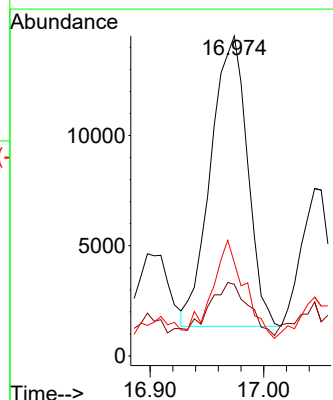
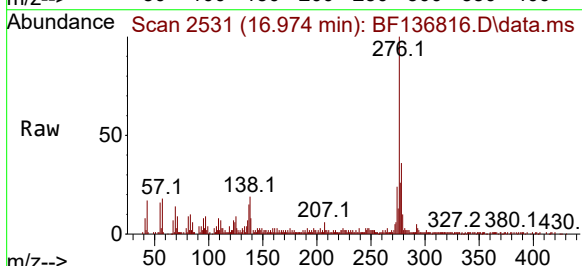
Tgt Ion:278 Resp: 29479

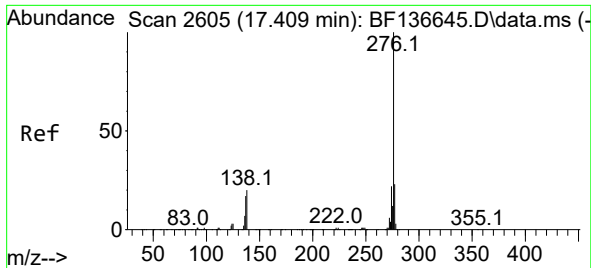
Ion Ratio Lower Upper

278 100

139 22.4 12.2 18.4#

279 29.1 17.8 26.6#





#92
 Benzo(g,h,i)perylene
 Concen: 20.436 ng
 RT: 17.421 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF136816.D
 Acq: 29 Dec 2023 02:57

Instrument :
 BNA_F
 ClientSampleId :
 OR-05-122723

Tgt Ion:276 Resp: 104621
 Ion Ratio Lower Upper
 276 100
 277 24.7 18.3 27.5
 138 21.0 15.6 23.4

