

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082923\
 Data File : BF134997.D
 Acq On : 29 Aug 2023 22:25
 Operator : CG\JU
 Sample : 04110-20
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-28(1.5-2.5)

Quant Time: Aug 29 23:27:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 28 02:45:19 2023
 Response via : Initial Calibration

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

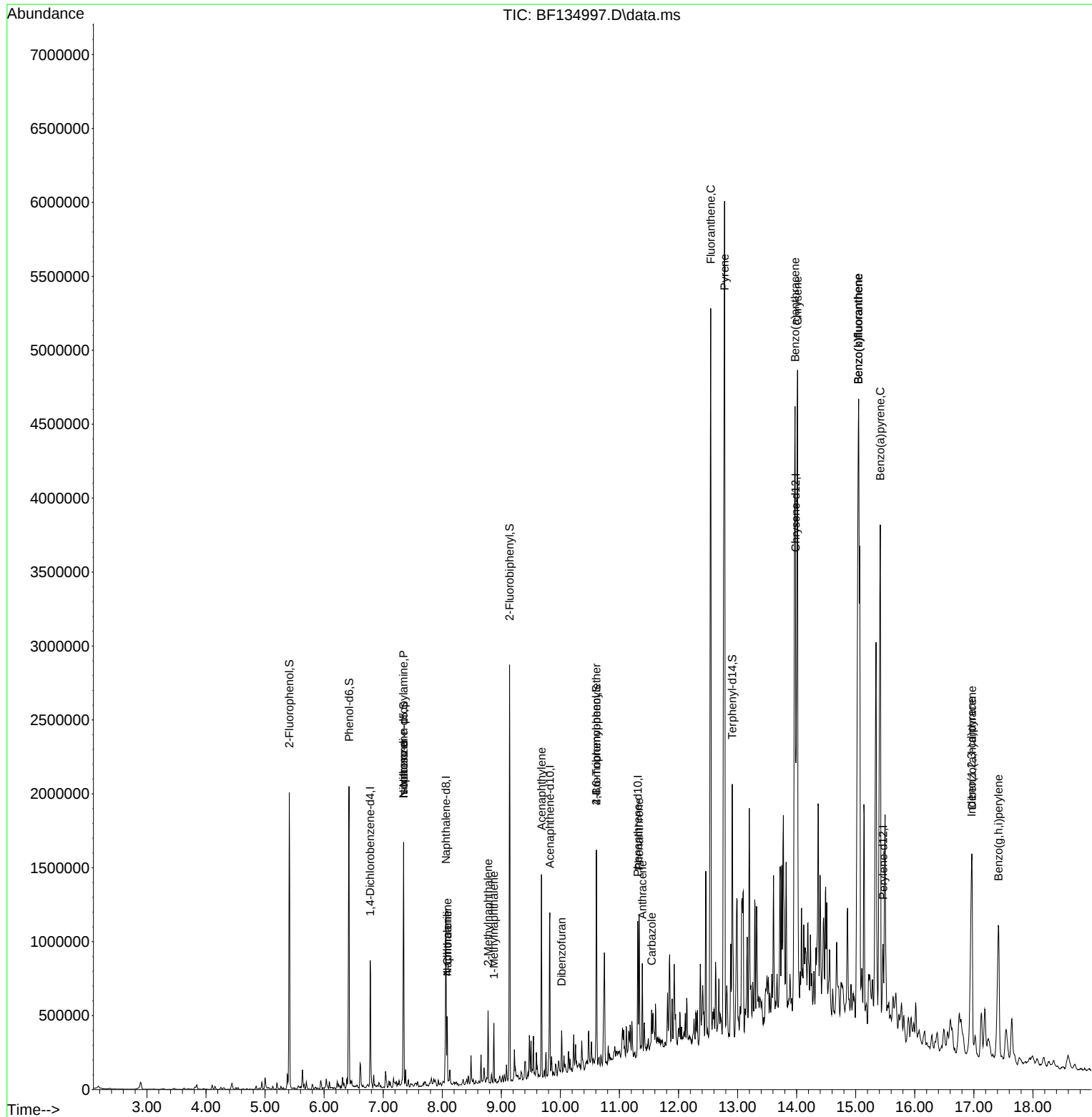
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	123424	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	468497	20.000	ng	-0.01
39) Acenaphthene-d10	9.822	164	222127	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	320578	20.000	ng	-0.02
76) Chrysene-d12	13.980	240	196652	20.000	ng	0.00
86) Perylene-d12	15.462	264	215044	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	526934	68.080	ng	-0.01
7) Phenol-d6	6.422	99	677655	68.518	ng	-0.02
23) Nitrobenzene-d5	7.345	82	477467	56.159	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	148319	56.695	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	801472	55.778	ng	-0.02
79) Terphenyl-d14	12.910	244	543836	38.036	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.345	70	64140	11.104	ng	# 79
25) Isophorone	7.345	82	473158	29.803	ng	# 64
31) Naphthalene	8.086	128	186901	7.989	ng	100
33) 4-Chloroaniline	8.086	127	24699	2.461	ng	# 34
37) 2-Methylnaphthalene	8.775	142	113732	7.290	ng	100
38) 1-Methylnaphthalene	8.875	142	92390	6.333	ng	100
49) Acenaphthylene	9.680	152	480952	23.847	ng	99
55) Dibenzofuran	10.022	168	63579	3.437	ng	# 91
67) 4-Bromophenyl-phenylether	10.610	248	9937	2.687	ng	# 1
71) Phenanthrene	11.333	178	346570	20.631	ng	99
72) Anthracene	11.386	178	215875	12.542	ng	99
73) Carbazole	11.545	167	69622	4.909	ng	95
75) Fluoranthene	12.545	202	2514257	157.960	ng	99
78) Pyrene	12.780	202	3285229	157.563	ng	97
81) Benzo(a)anthracene	13.974	228	2146684	159.996	ng	94
83) Chrysene	14.015	228	2059507	155.573	ng	95
87) Indeno(1,2,3-cd)pyrene	16.962	276	1065836	69.340	ng	95
88) Benzo(b)fluoranthene	15.045	252	4505793	371.378	ng	98
89) Benzo(k)fluoranthene	15.045	252	4505793	378.194	ng	96
90) Benzo(a)pyrene	15.415	252	2109714	174.186	ng	97
91) Dibenzo(a,h)anthracene	16.968	278	325642	26.183	ng	94
92) Benzo(g,h,i)perylene	17.415	276	855893	67.226	ng	99

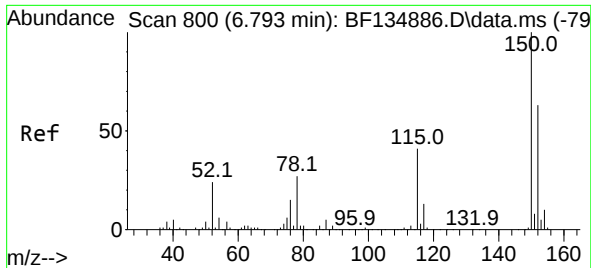
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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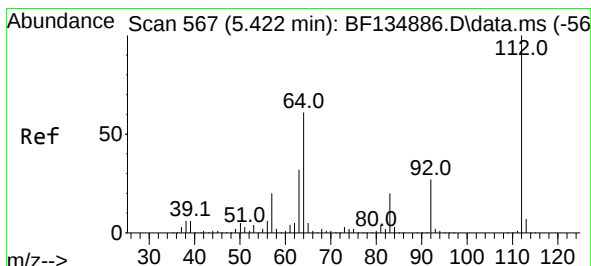
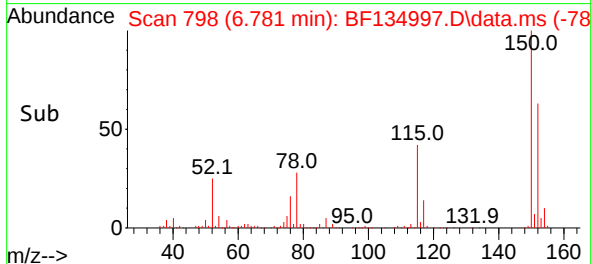
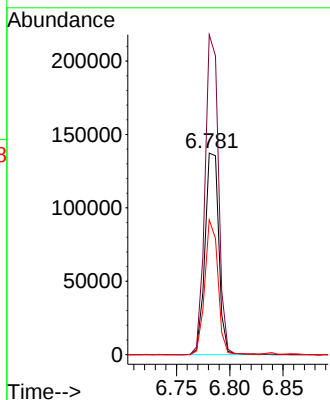
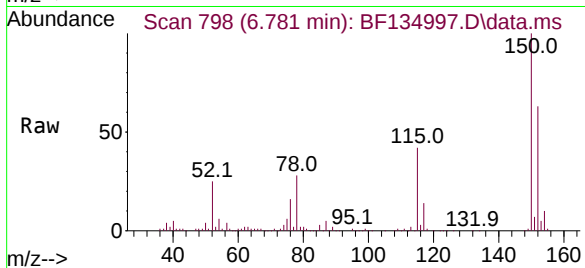




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

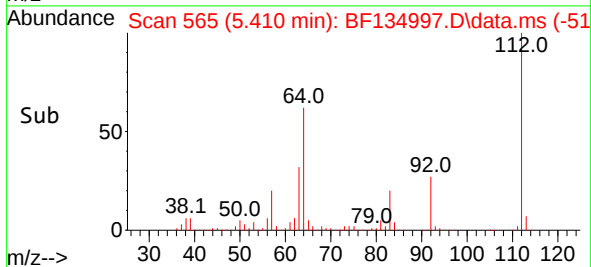
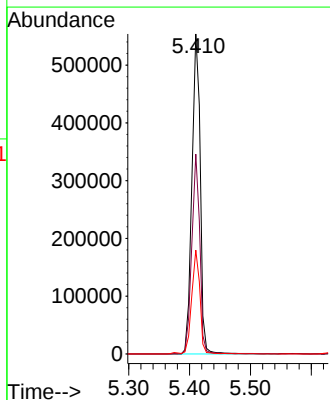
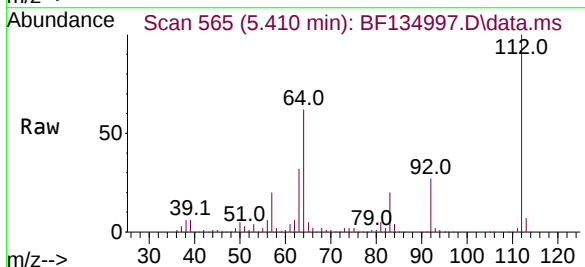
Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

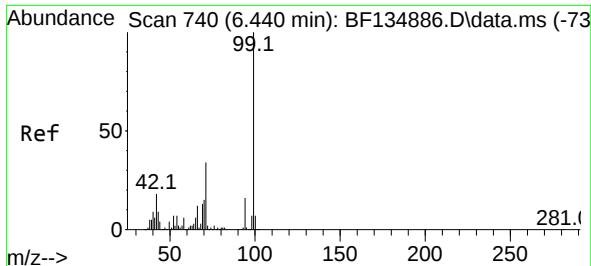
Tgt Ion:152 Resp: 123424
Ion Ratio Lower Upper
152 100
150 158.8 126.1 189.1
115 66.9 51.1 76.7



#5
2-Fluorophenol
Concen: 68.080 ng
RT: 5.410 min Scan# 565
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:112 Resp: 526934
Ion Ratio Lower Upper
112 100
64 62.4 48.6 73.0
63 32.4 25.7 38.5

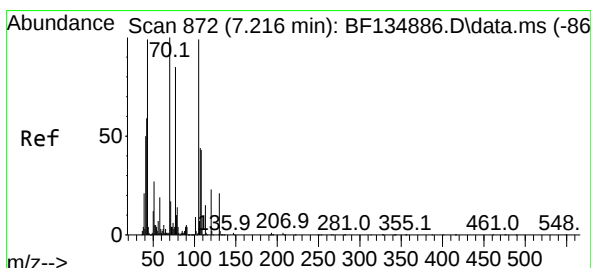
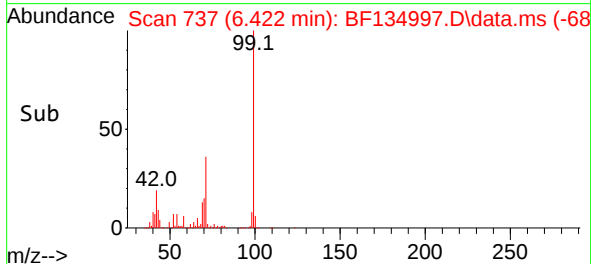
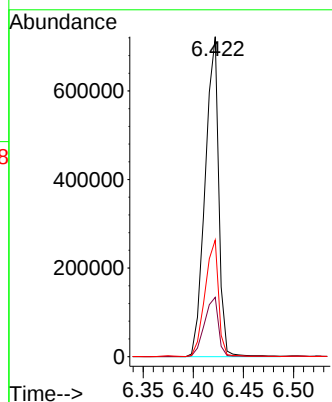
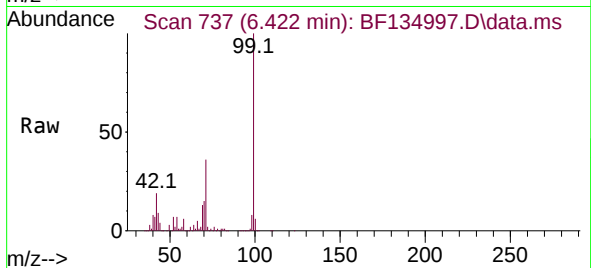




#7
Phenol-d6
Concen: 68.518 ng
RT: 6.422 min Scan# 741
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

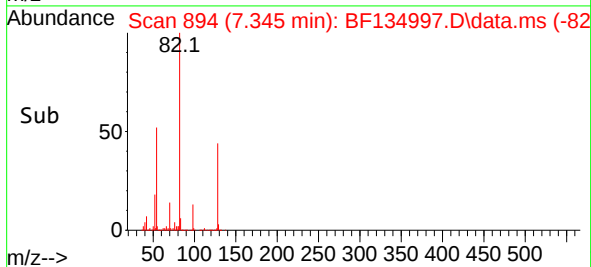
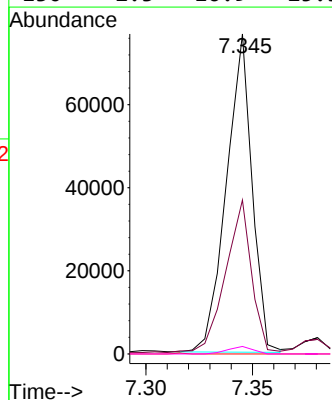
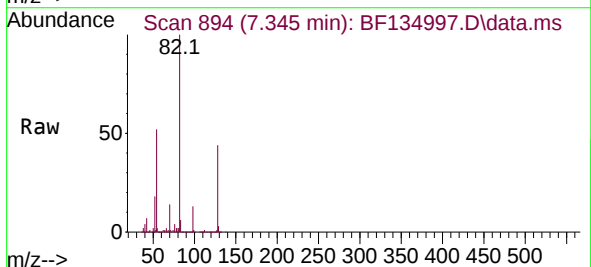
Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

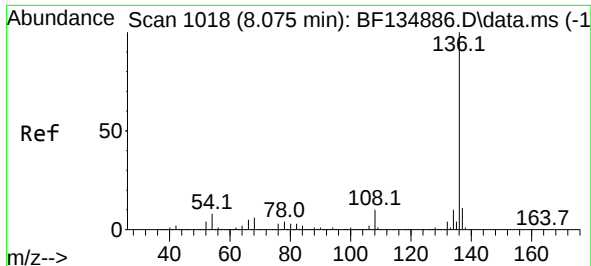
Tgt Ion: 99 Resp: 677655
Ion Ratio Lower Upper
99 100
42 18.5 14.6 22.0
71 36.4 27.6 41.4



#19
n-Nitroso-di-n-propylamine
Concen: 11.104 ng
RT: 7.345 min Scan# 894
Delta R.T. 0.129 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion: 70 Resp: 64140
Ion Ratio Lower Upper
70 100
42 48.1 46.9 70.3
101 0.0 7.5 11.3#
130 2.3 16.9 25.3#



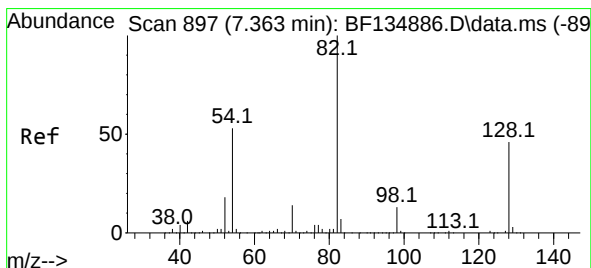
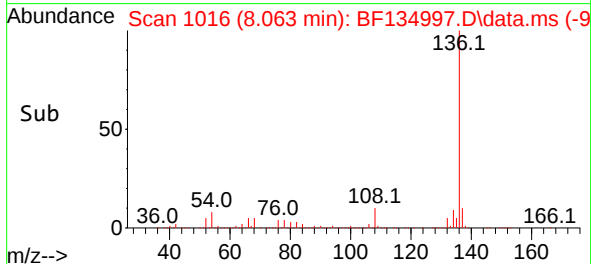
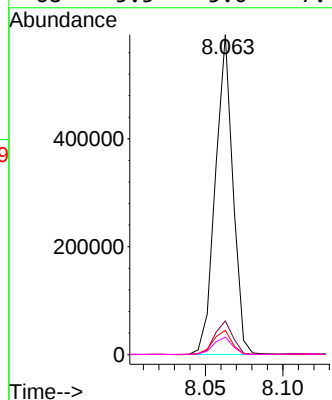
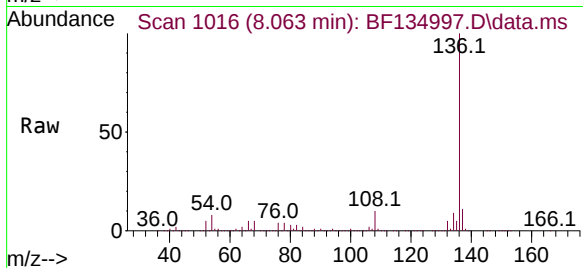


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1016
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

Tgt Ion:136 Resp: 468497

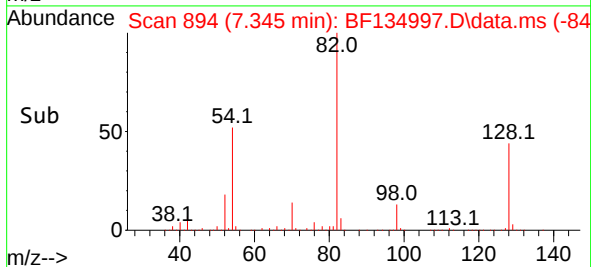
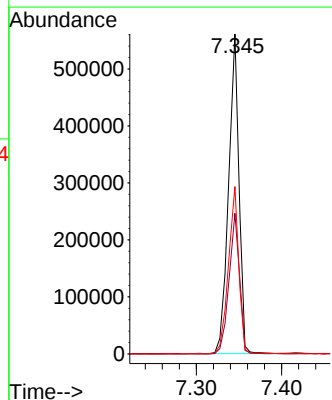
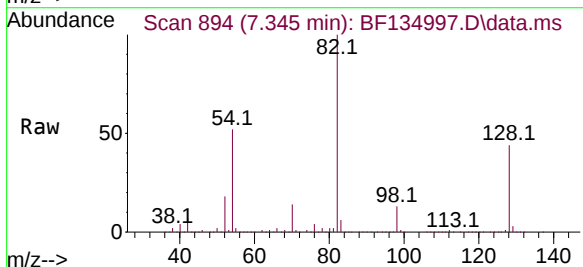
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.9	13.3
54	7.6	6.6	9.8
68	5.5	5.0	7.4

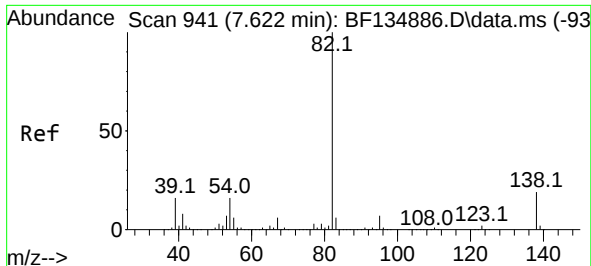


#23
Nitrobenzene-d5
Concen: 56.159 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion: 82 Resp: 477467

Ion	Ratio	Lower	Upper
82	100		
128	43.9	36.6	54.8
54	52.3	42.6	63.8

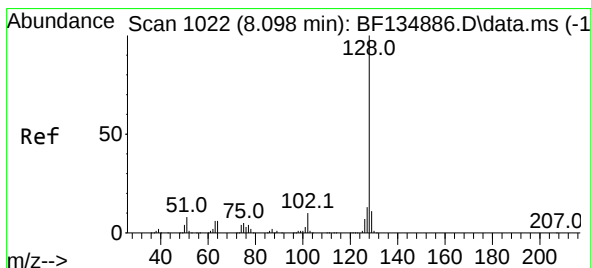
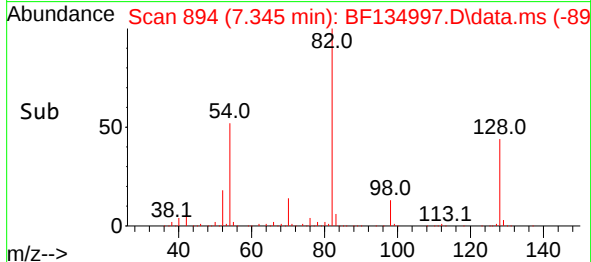
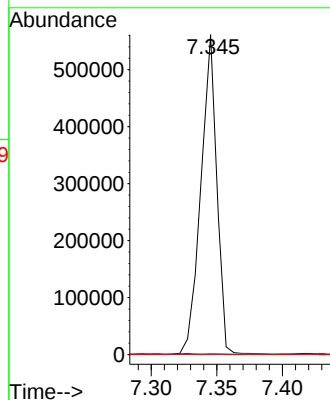
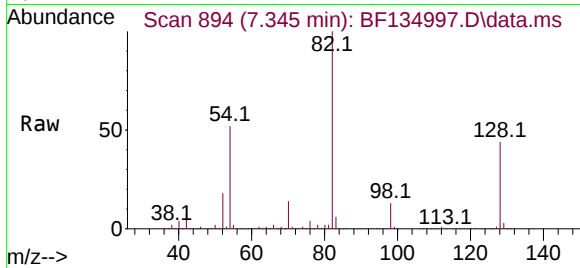




#25
Isophorone
Concen: 29.803 ng
RT: 7.345 min Scan# 89
Delta R.T. -0.277 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

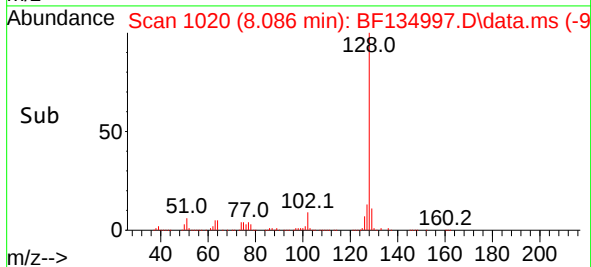
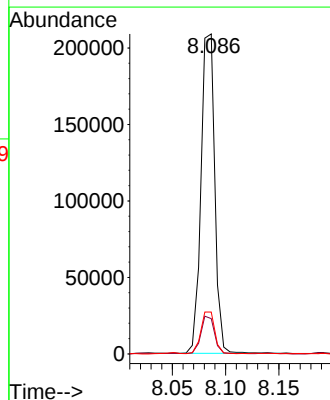
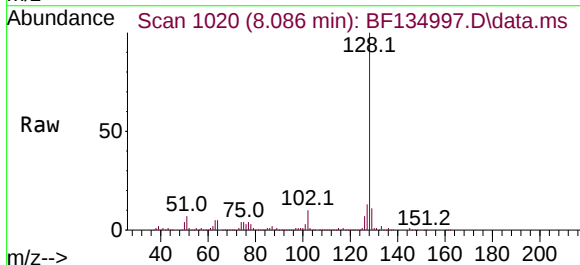
Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

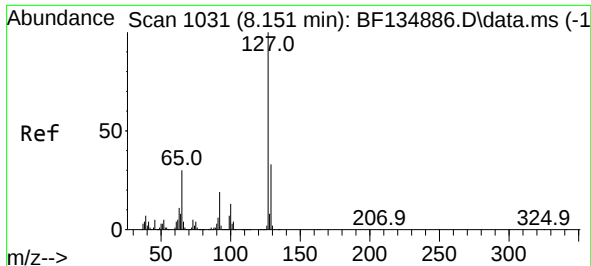
Tgt Ion: 82 Resp: 473158
Ion Ratio Lower Upper
82 100
95 0.2 5.9 8.9#
138 0.0 14.9 22.3#



#31
Naphthalene
Concen: 7.989 ng
RT: 8.086 min Scan# 1020
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion: 128 Resp: 186901
Ion Ratio Lower Upper
128 100
129 11.0 9.0 13.4
127 13.1 10.6 16.0

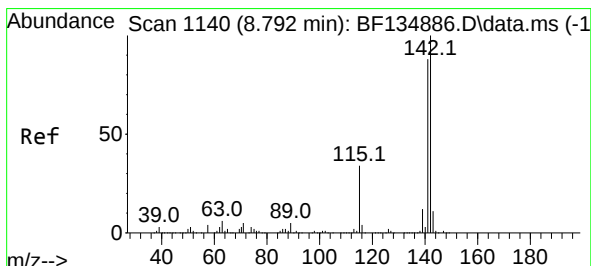
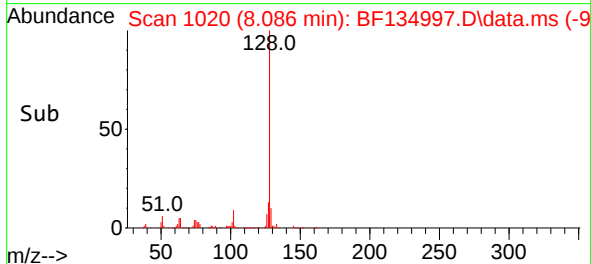
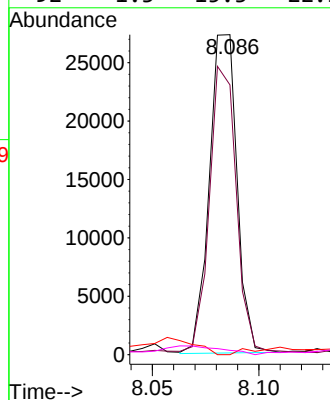
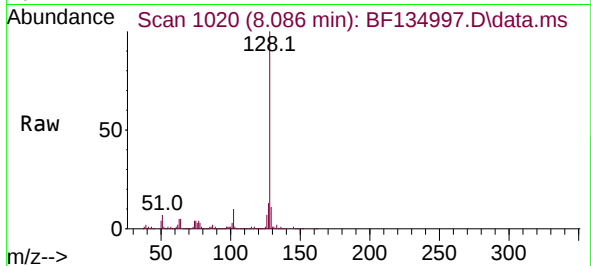




#33
 4-Chloroaniline
 Concen: 2.461 ng
 RT: 8.086 min Scan# 110
 Delta R.T. -0.065 min
 Lab File: BF134997.D
 Acq: 29 Aug 2023 22:25

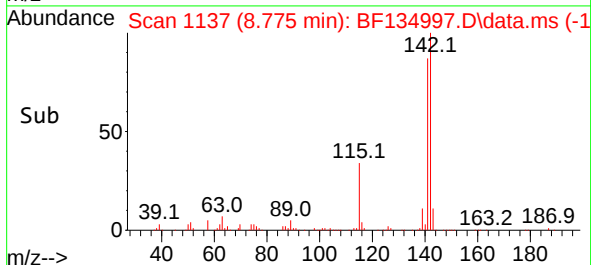
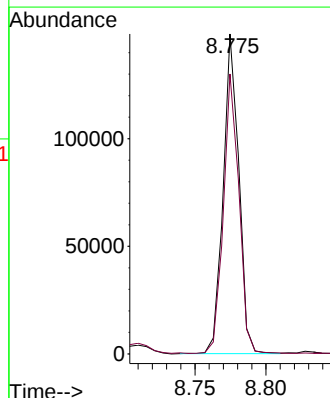
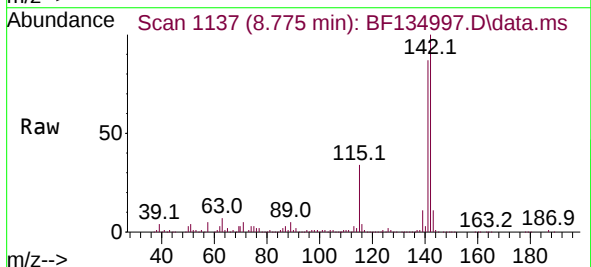
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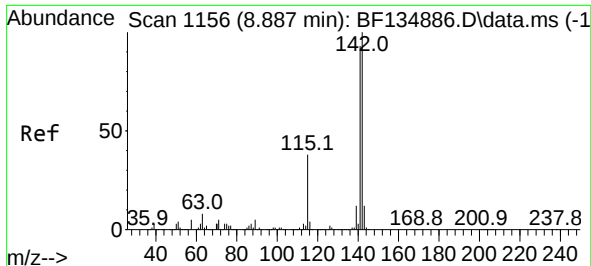
Tgt Ion:	127	Resp:	24699
Ion	Ratio	Lower	Upper
127	100		
129	84.3	26.4	39.6#
65	0.0	23.8	35.8#
92	1.3	15.3	22.9#



#37
 2-Methylnaphthalene
 Concen: 7.290 ng
 RT: 8.775 min Scan# 1137
 Delta R.T. -0.018 min
 Lab File: BF134997.D
 Acq: 29 Aug 2023 22:25

Tgt Ion:	142	Resp:	113732
Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.2	105.2

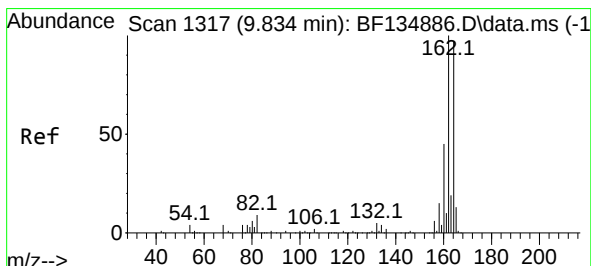
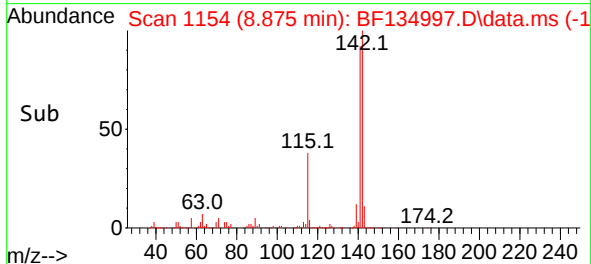
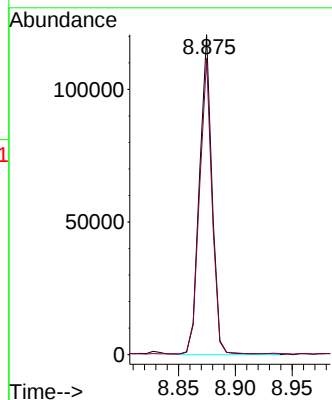
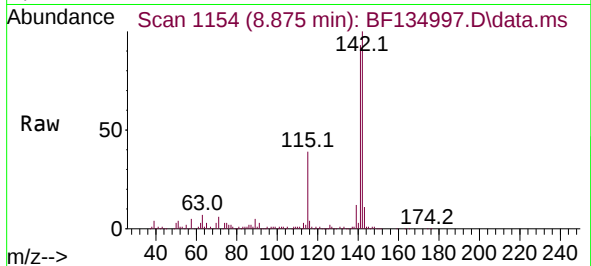




#38
1-Methylnaphthalene
Concen: 6.333 ng
RT: 8.875 min Scan# 1156
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

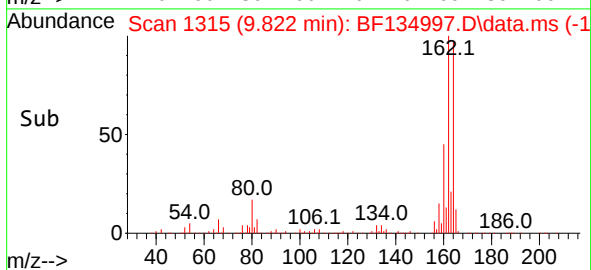
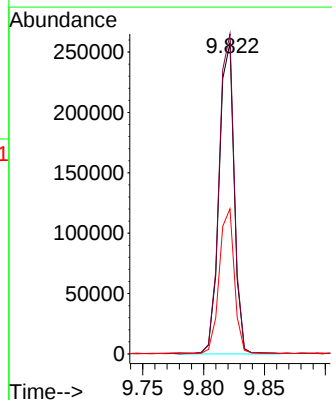
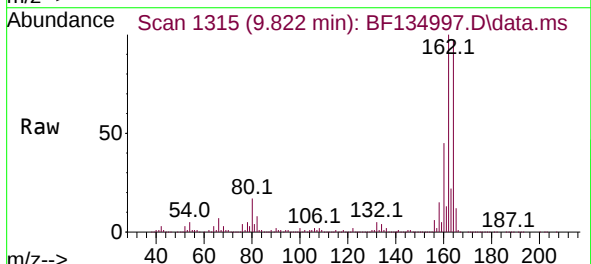
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TP-28(1.5-2.5)

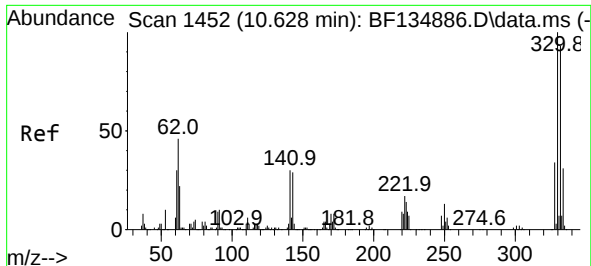
Tgt Ion:142 Resp: 92390
Ion Ratio Lower Upper
142 100
141 92.5 74.1 111.1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:164 Resp: 222127
Ion Ratio Lower Upper
164 100
162 103.0 82.6 123.8
160 46.7 37.0 55.4





#42

2,4,6-Tribromophenol

Concen: 56.695 ng

RT: 10.610 min Scan# 1452

Delta R.T. -0.018 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

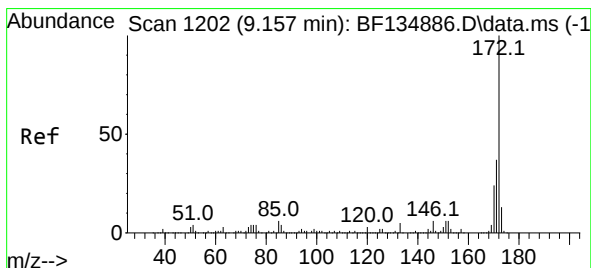
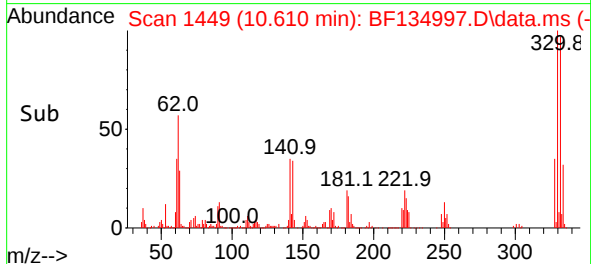
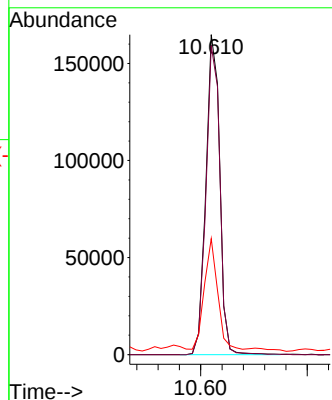
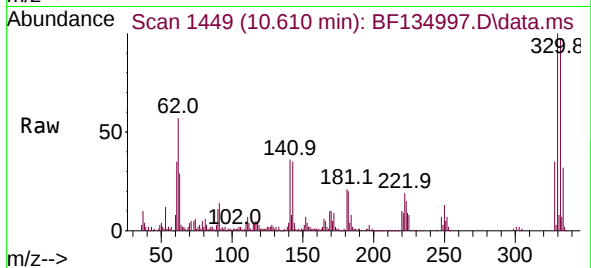
Tgt Ion:330 Resp: 148319

Ion Ratio Lower Upper

330 100

332 97.3 76.3 114.5

141 33.0 23.4 35.2



#45

2-Fluorobiphenyl

Concen: 55.778 ng

RT: 9.139 min Scan# 1199

Delta R.T. -0.018 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

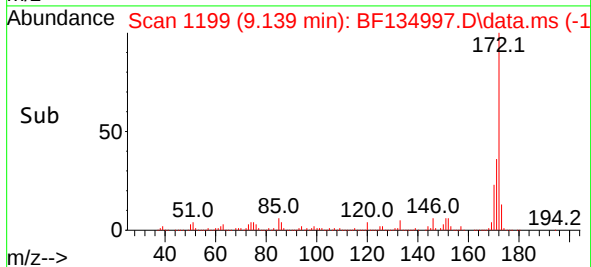
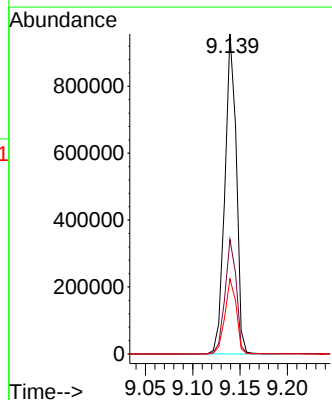
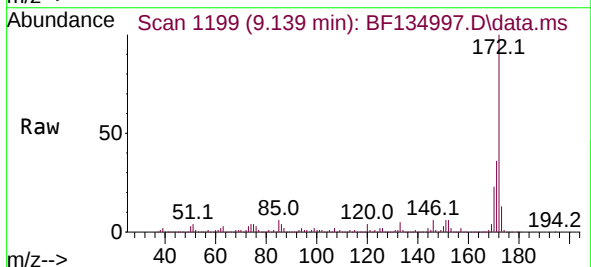
Tgt Ion:172 Resp: 801472

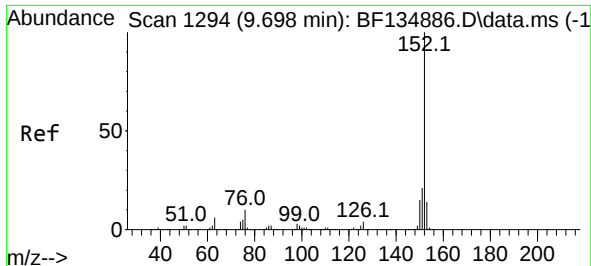
Ion Ratio Lower Upper

172 100

171 35.8 29.4 44.0

170 23.4 19.6 29.4





#49

Acenaphthylene

Concen: 23.847 ng

RT: 9.680 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

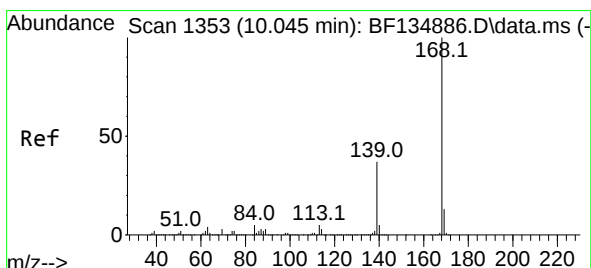
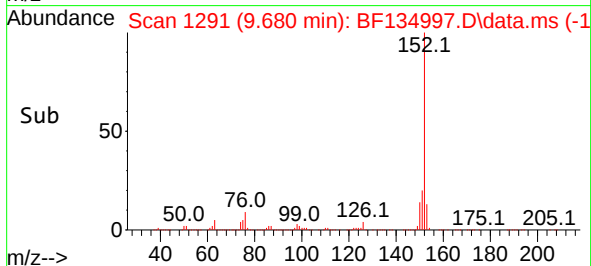
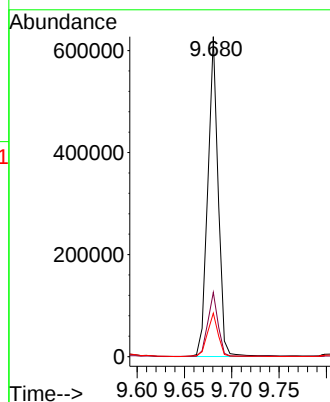
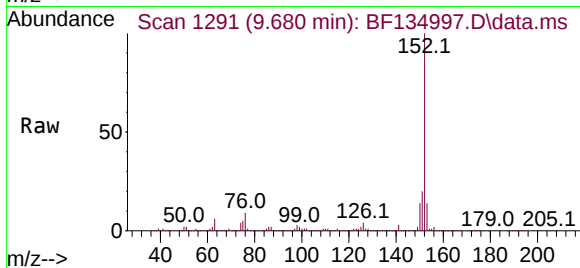
Tgt Ion:152 Resp: 480952

Ion Ratio Lower Upper

152 100

151 20.1 16.5 24.7

153 13.6 11.3 16.9



#55

Dibenzofuran

Concen: 3.437 ng

RT: 10.022 min Scan# 1349

Delta R.T. -0.024 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

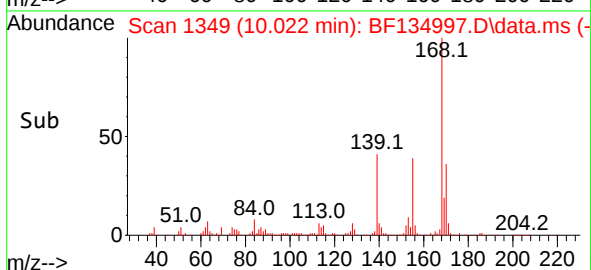
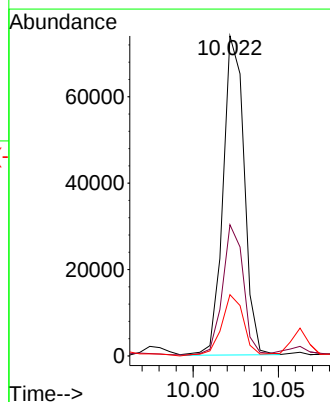
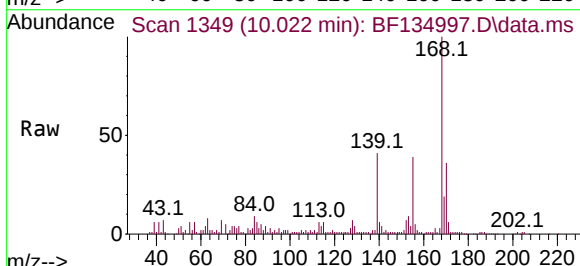
Tgt Ion:168 Resp: 63579

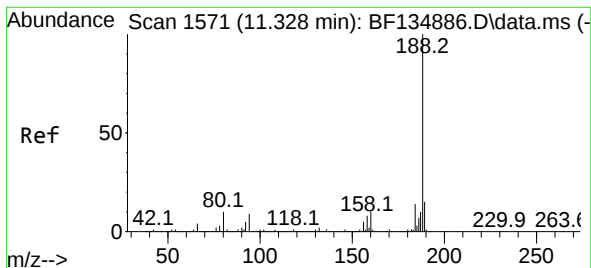
Ion Ratio Lower Upper

168 100

139 41.0 29.5 44.3

169 19.1 10.7 16.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

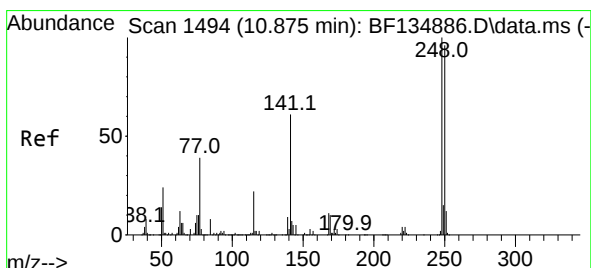
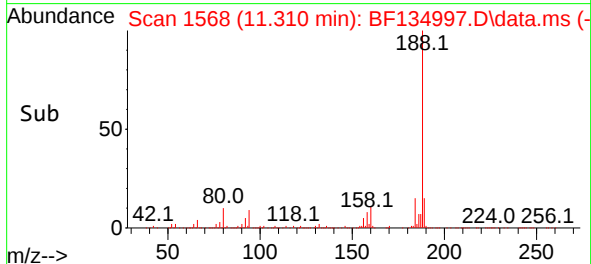
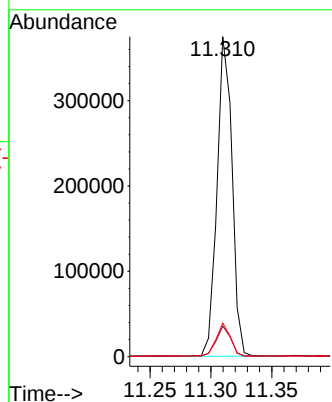
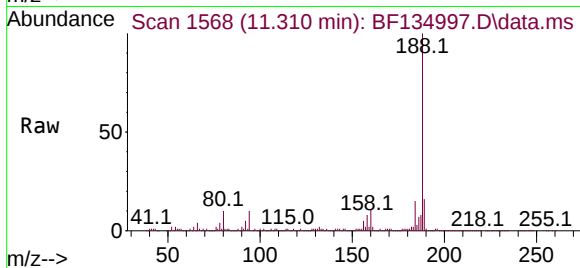
Tgt Ion:188 Resp: 320578

Ion Ratio Lower Upper

188 100

94 9.5 7.5 11.3

80 10.5 7.8 11.6



#67

4-Bromophenyl-phenylether

Concen: 2.687 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.265 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

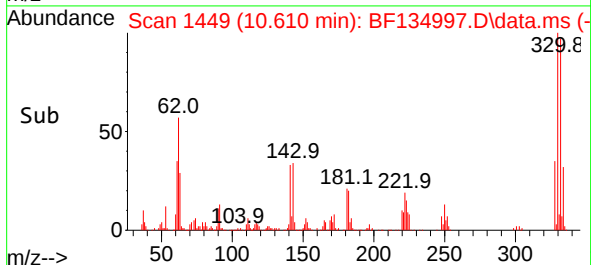
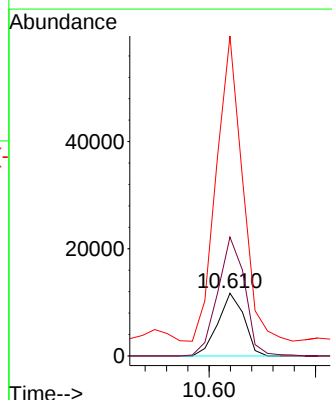
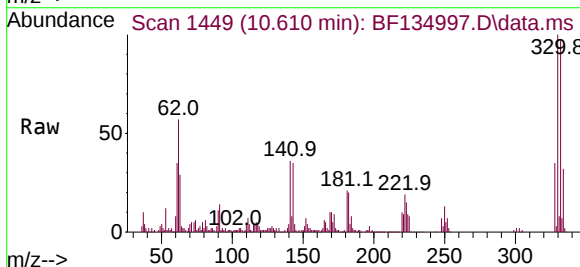
Tgt Ion:248 Resp: 9937

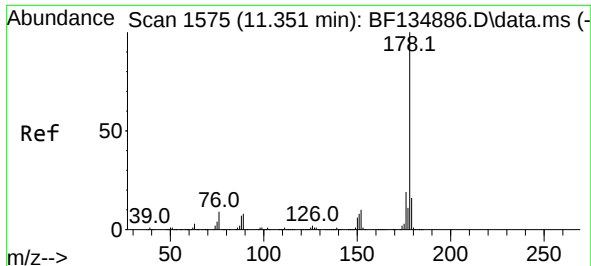
Ion Ratio Lower Upper

248 100

250 189.5 77.1 115.7#

141 510.4 49.0 73.4#

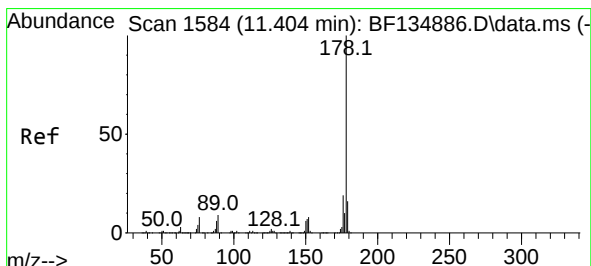
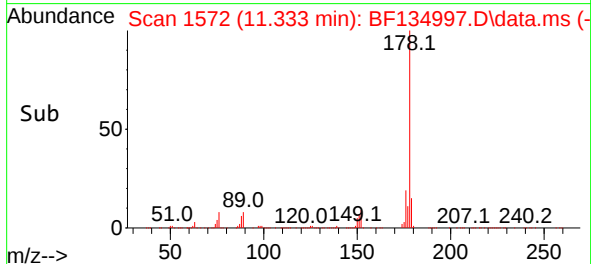
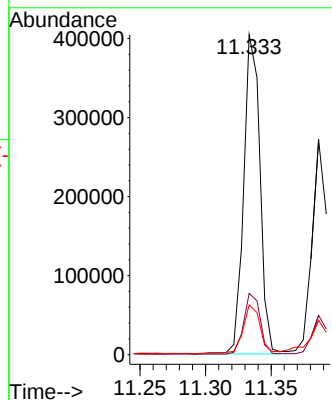
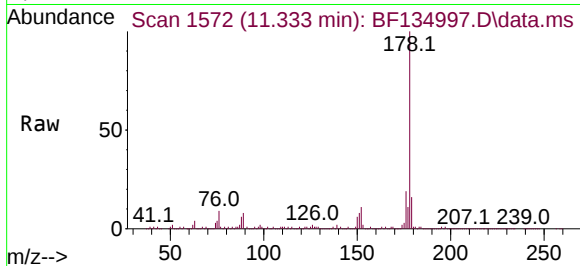




#71
Phenanthrene
Concen: 20.631 ng
RT: 11.333 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

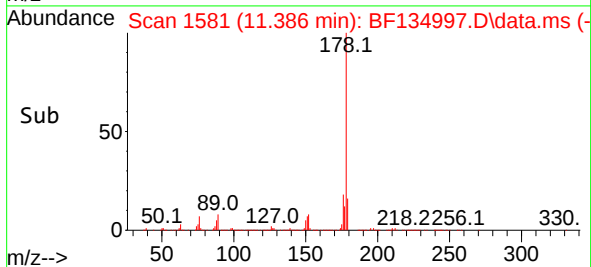
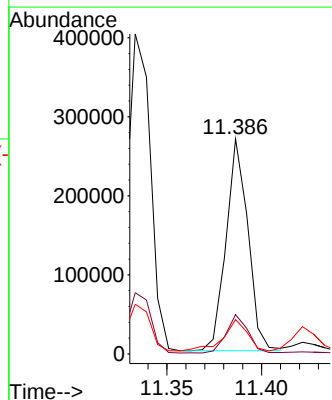
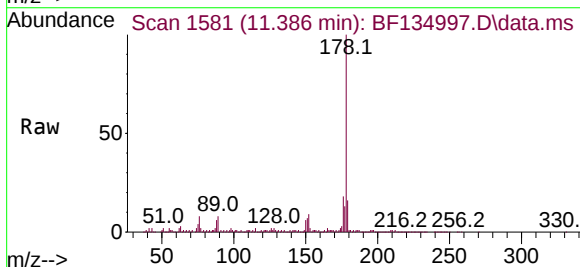
Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

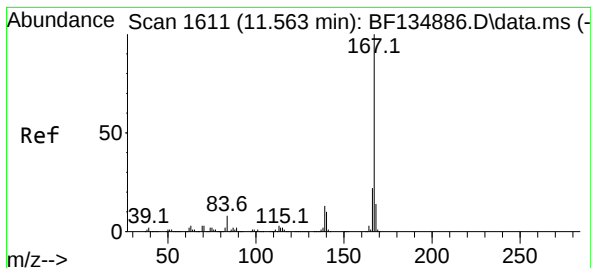
Tgt Ion:178 Resp: 346570
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.6 12.6 19.0



#72
Anthracene
Concen: 12.542 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.018 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:178 Resp: 215875
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.9 12.5 18.7





#73

Carbazole

Concen: 4.909 ng

RT: 11.545 min Scan# 1608

Delta R.T. -0.018 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

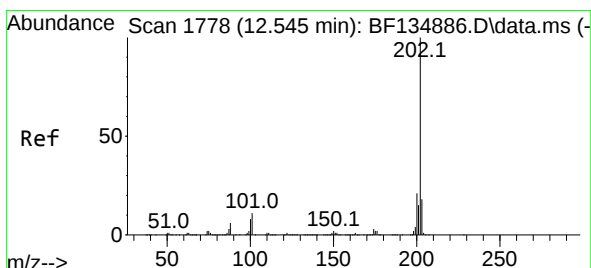
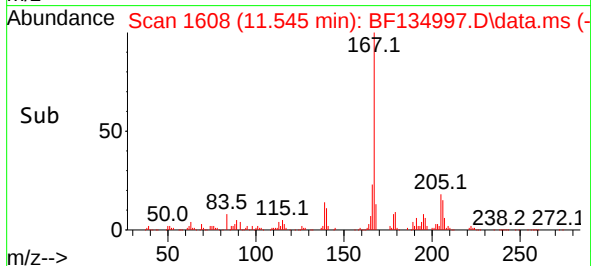
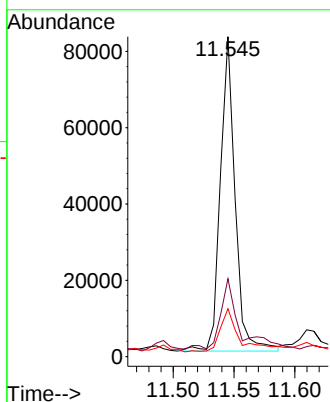
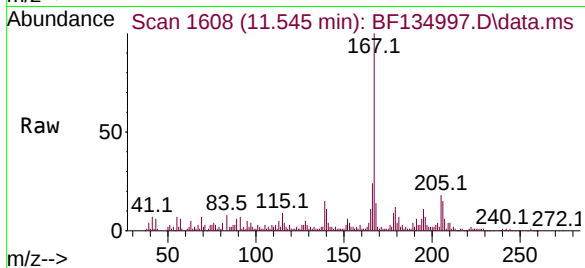
Tgt Ion:167 Resp: 69622

Ion Ratio Lower Upper

167 100

166 24.3 17.4 26.2

139 15.0 10.4 15.6



#75

Fluoranthene

Concen: 157.960 ng

RT: 12.545 min Scan# 1778

Delta R.T. -0.000 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

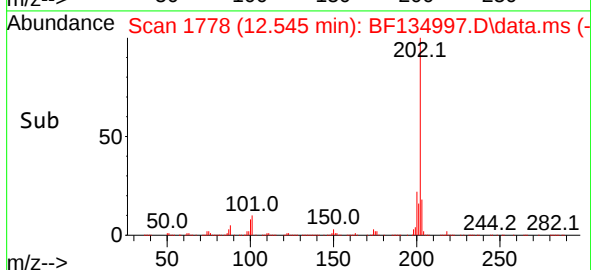
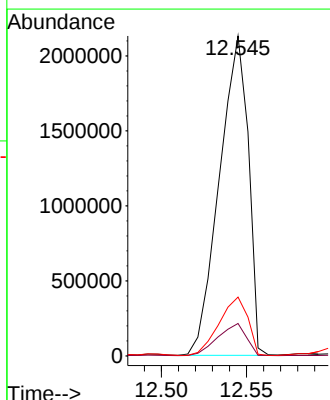
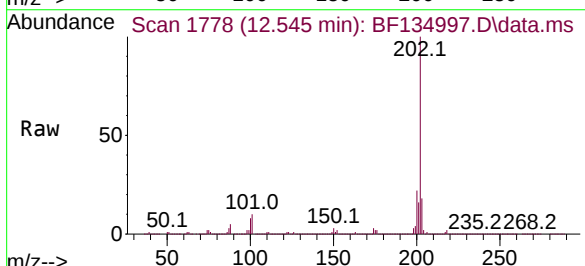
Tgt Ion:202 Resp: 2514257

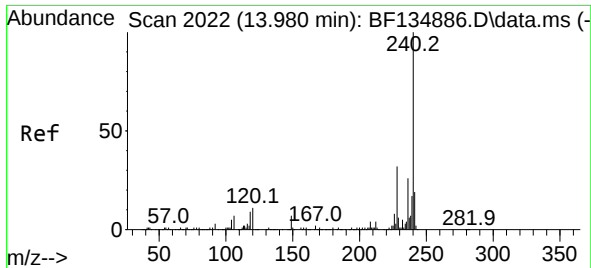
Ion Ratio Lower Upper

202 100

101 10.1 0.0 30.5

203 18.4 0.0 37.8

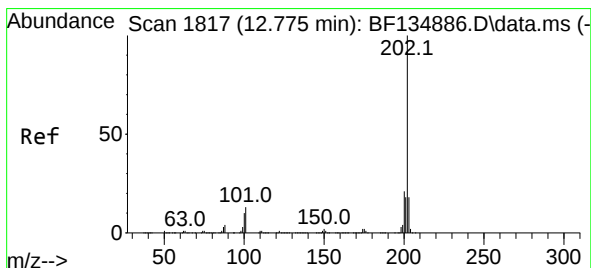
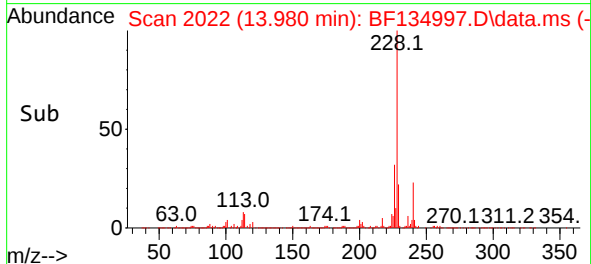
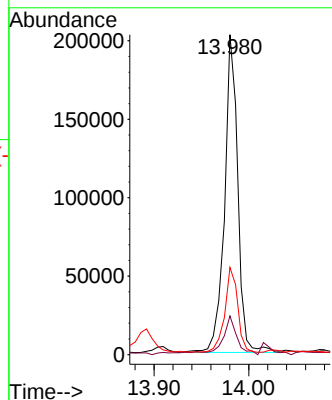
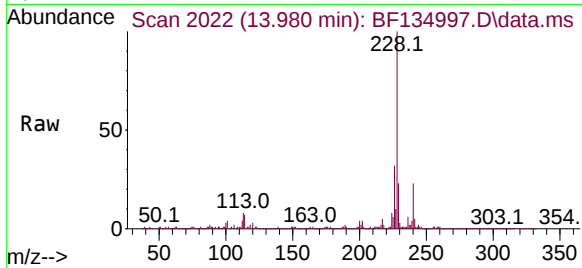




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

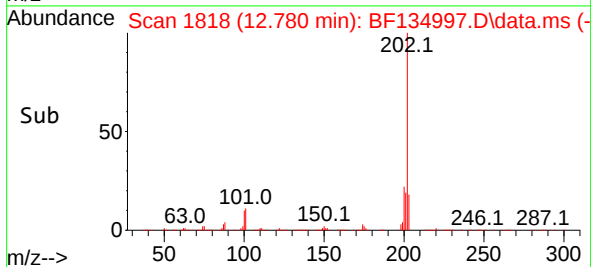
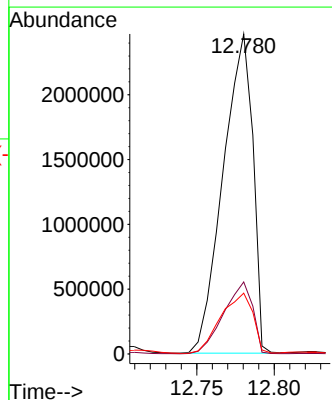
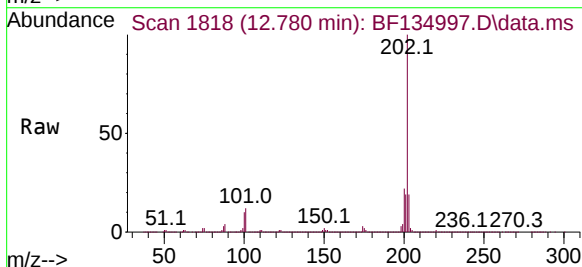
Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

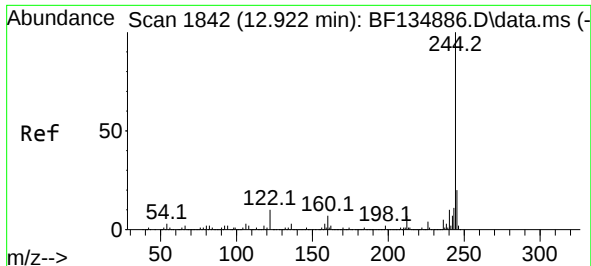
Tgt Ion:240 Resp: 196652
Ion Ratio Lower Upper
240 100
120 12.1 8.6 12.8
236 27.2 20.6 31.0



#78
Pyrene
Concen: 157.563 ng
RT: 12.780 min Scan# 1818
Delta R.T. 0.006 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:202 Resp: 3285229
Ion Ratio Lower Upper
202 100
200 22.5 17.1 25.7
203 19.0 14.2 21.2

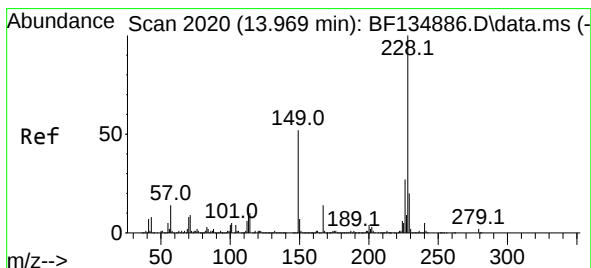
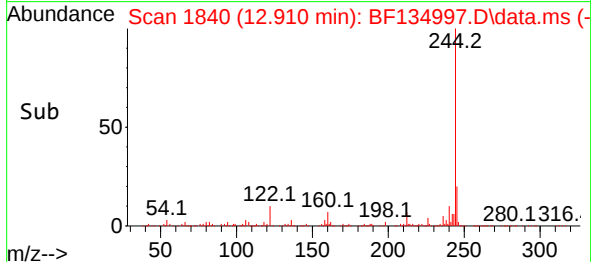
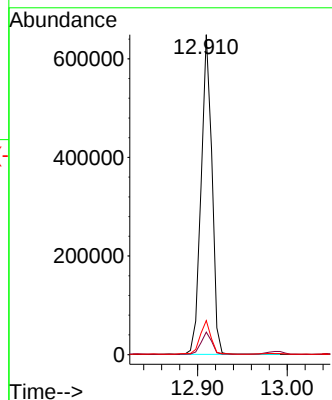
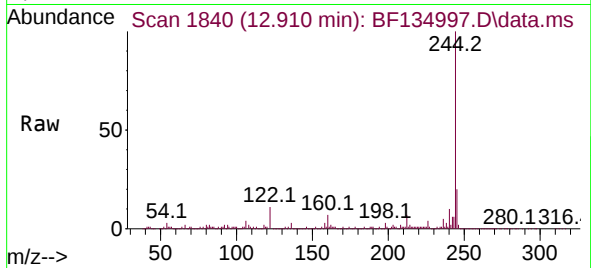




#79
 Terphenyl-d14
 Concen: 38.036 ng
 RT: 12.910 min Scan# 1842
 Delta R.T. -0.012 min
 Lab File: BF134997.D
 Acq: 29 Aug 2023 22:25

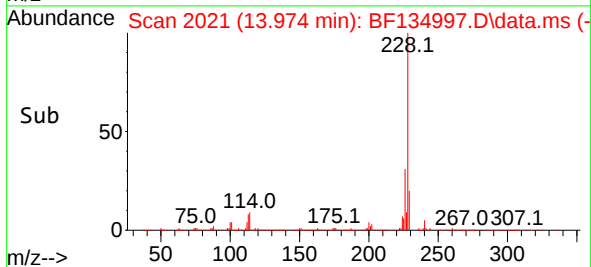
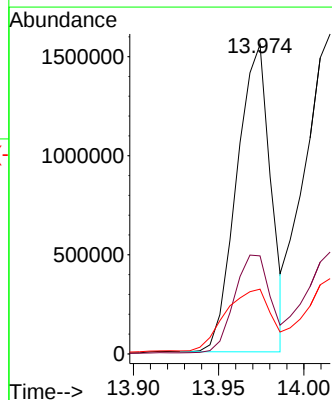
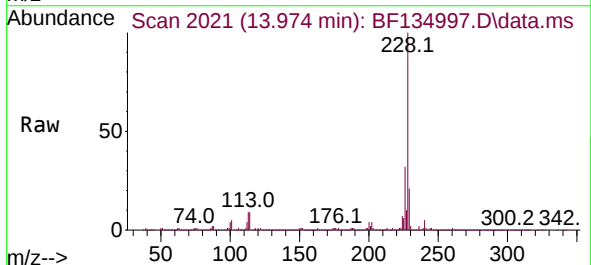
Instrument :
 BNA_F
 ClientSampleId :
 TP-28(1.5-2.5)

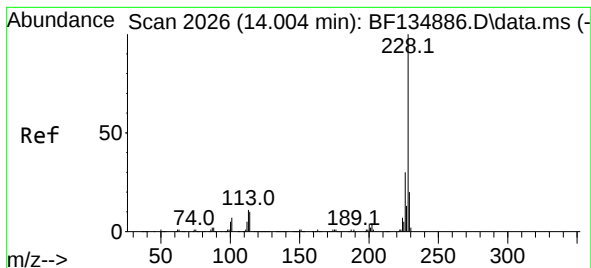
Tgt Ion:244 Resp: 543836
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.0
 122 10.6 8.2 12.4



#81
 Benzo(a)anthracene
 Concen: 159.996 ng
 RT: 13.974 min Scan# 2021
 Delta R.T. 0.006 min
 Lab File: BF134997.D
 Acq: 29 Aug 2023 22:25

Tgt Ion:228 Resp: 2146684
 Ion Ratio Lower Upper
 228 100
 226 31.7 21.8 32.6
 229 20.9 15.6 23.4





#83

Chrysene

Concen: 155.573 ng

RT: 14.015 min Scan# 20

Delta R.T. 0.011 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

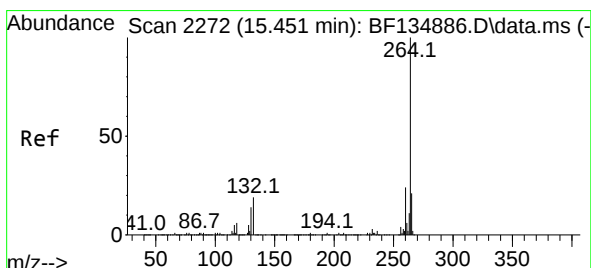
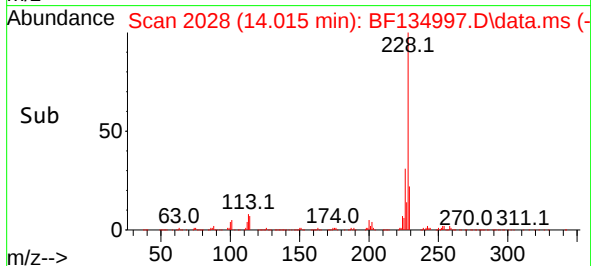
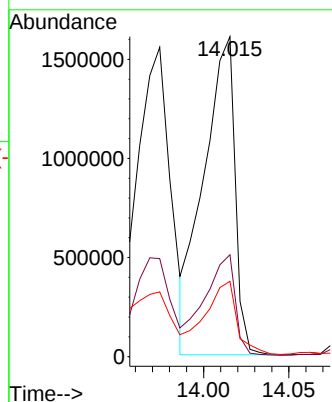
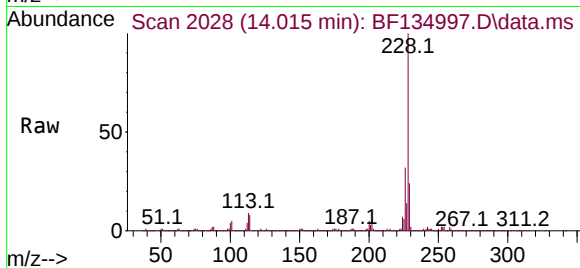
Tgt Ion:228 Resp: 2059507

Ion Ratio Lower Upper

228 100

226 31.8 24.2 36.2

229 23.5 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.462 min Scan# 2274

Delta R.T. 0.012 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

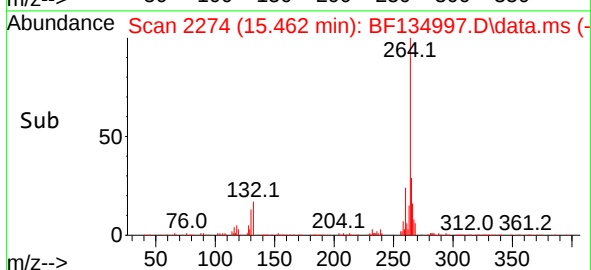
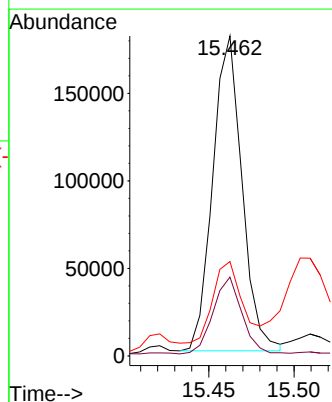
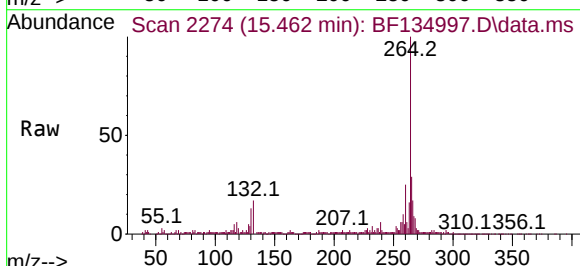
Tgt Ion:264 Resp: 215044

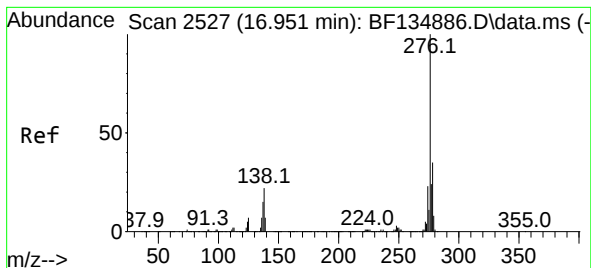
Ion Ratio Lower Upper

264 100

260 24.6 19.0 28.6

265 29.5 17.1 25.7#





#87

Indeno(1,2,3-cd)pyrene

Concen: 69.340 ng

RT: 16.962 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

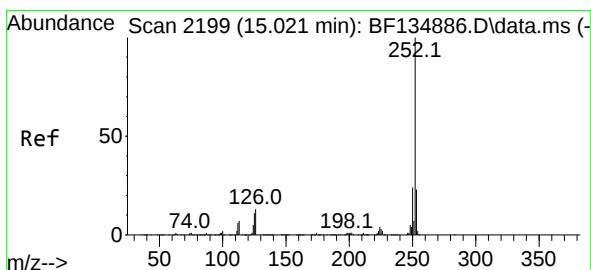
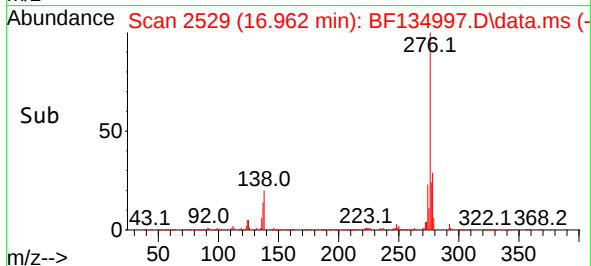
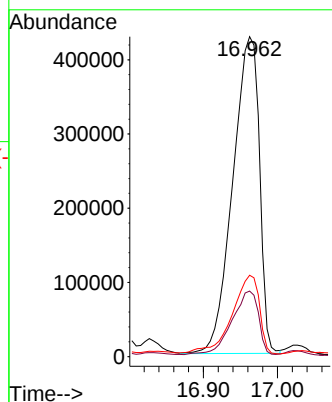
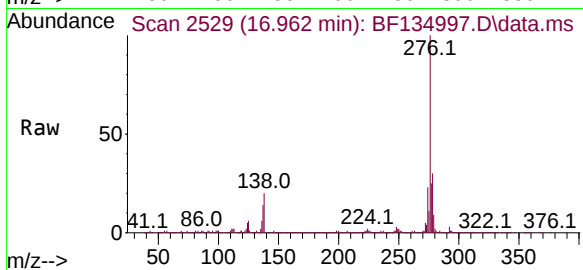
Tgt Ion:276 Resp: 1065836

Ion Ratio Lower Upper

276 100

138 20.1 19.7 29.5

277 25.6 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 371.378 ng

RT: 15.045 min Scan# 2203

Delta R.T. 0.023 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

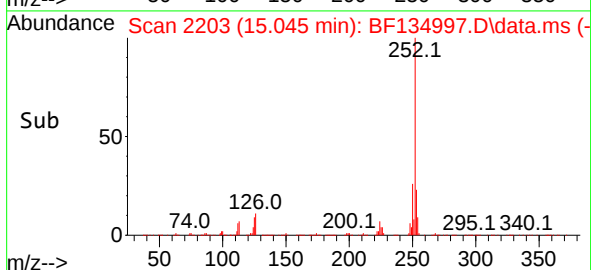
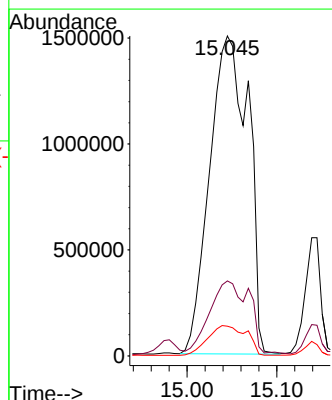
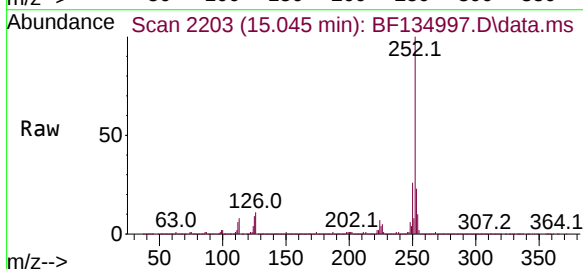
Tgt Ion:252 Resp: 4505793

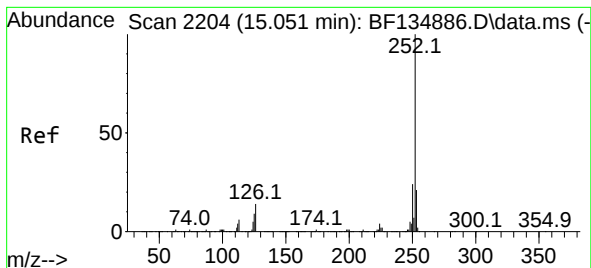
Ion Ratio Lower Upper

252 100

253 23.4 18.1 27.1

125 9.3 8.4 12.6





#89

Benzo(k)fluoranthene

Concen: 378.194 ng

RT: 15.045 min Scan# 2204

Delta R.T. -0.006 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

Instrument :

BNA_F

ClientSampleId :

TP-28(1.5-2.5)

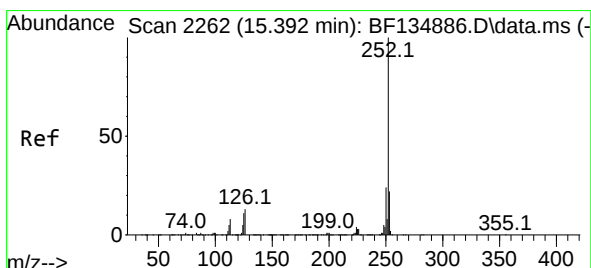
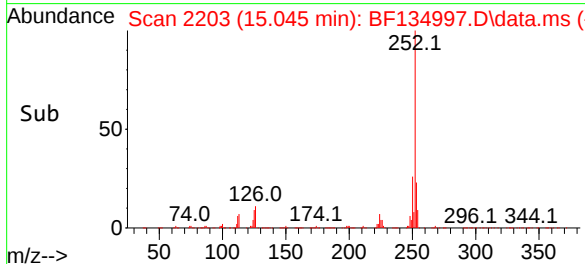
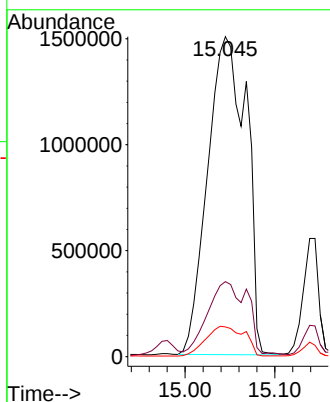
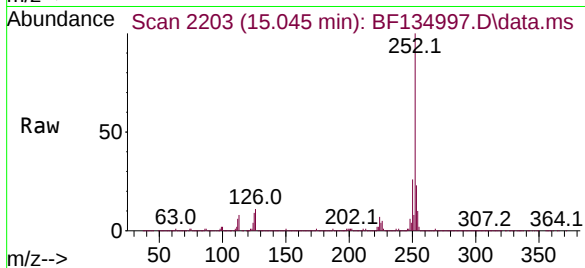
Tgt Ion:252 Resp: 4505793

Ion Ratio Lower Upper

252 100

253 23.4 17.1 25.7

125 9.3 8.0 12.0



#90

Benzo(a)pyrene

Concen: 174.186 ng

RT: 15.415 min Scan# 2266

Delta R.T. 0.023 min

Lab File: BF134997.D

Acq: 29 Aug 2023 22:25

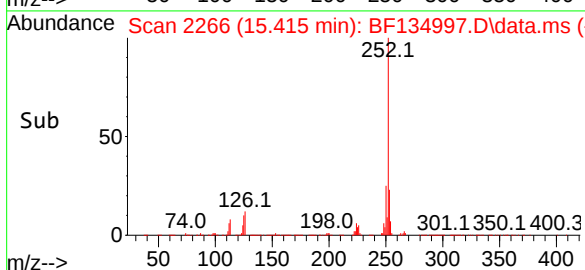
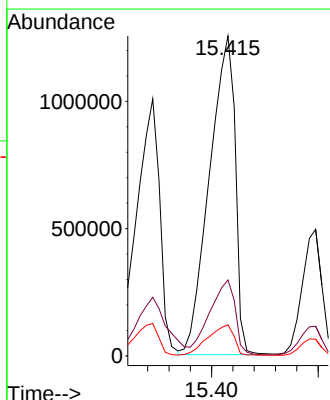
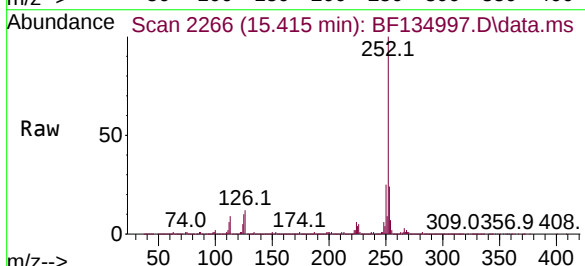
Tgt Ion:252 Resp: 2109714

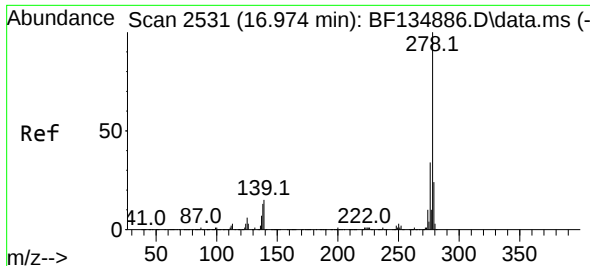
Ion Ratio Lower Upper

252 100

253 23.7 17.6 26.4

125 9.7 8.4 12.6

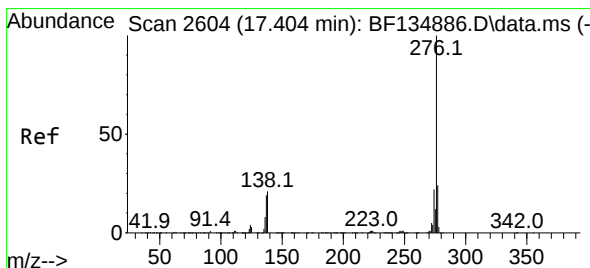
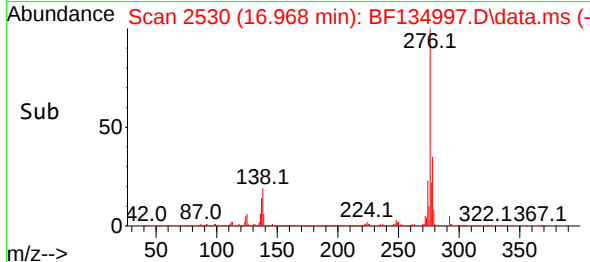
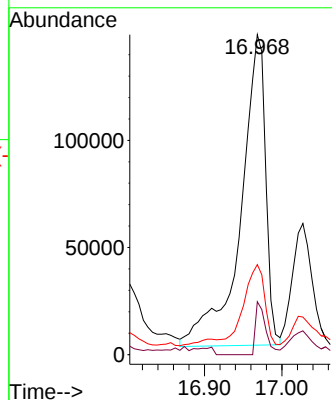
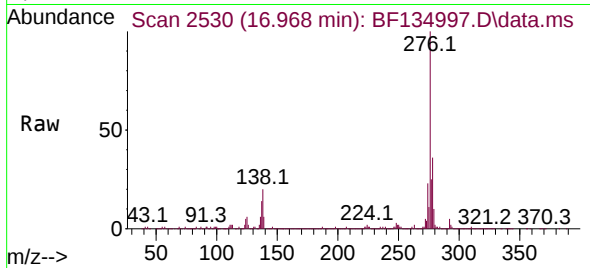




#91
Dibenzo(a,h)anthracene
Concen: 26.183 ng
RT: 16.968 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Instrument :
BNA_F
ClientSampleId :
TP-28(1.5-2.5)

Tgt Ion:278 Resp: 325642
Ion Ratio Lower Upper
278 100
139 16.5 12.2 18.4
279 28.1 19.1 28.7



#92
Benzo(g,h,i)perylene
Concen: 67.226 ng
RT: 17.415 min Scan# 2606
Delta R.T. 0.012 min
Lab File: BF134997.D
Acq: 29 Aug 2023 22:25

Tgt Ion:276 Resp: 855893
Ion Ratio Lower Upper
276 100
277 23.7 19.2 28.8
138 20.8 17.0 25.6

