

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020124\
 Data File : BF137241.D
 Acq On : 01 Feb 2024 19:54
 Operator : CG\JU
 Sample : P1313-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

Quant Time: Feb 02 01:16:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF013024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 31 04:56:22 2024
 Response via : Initial Calibration

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

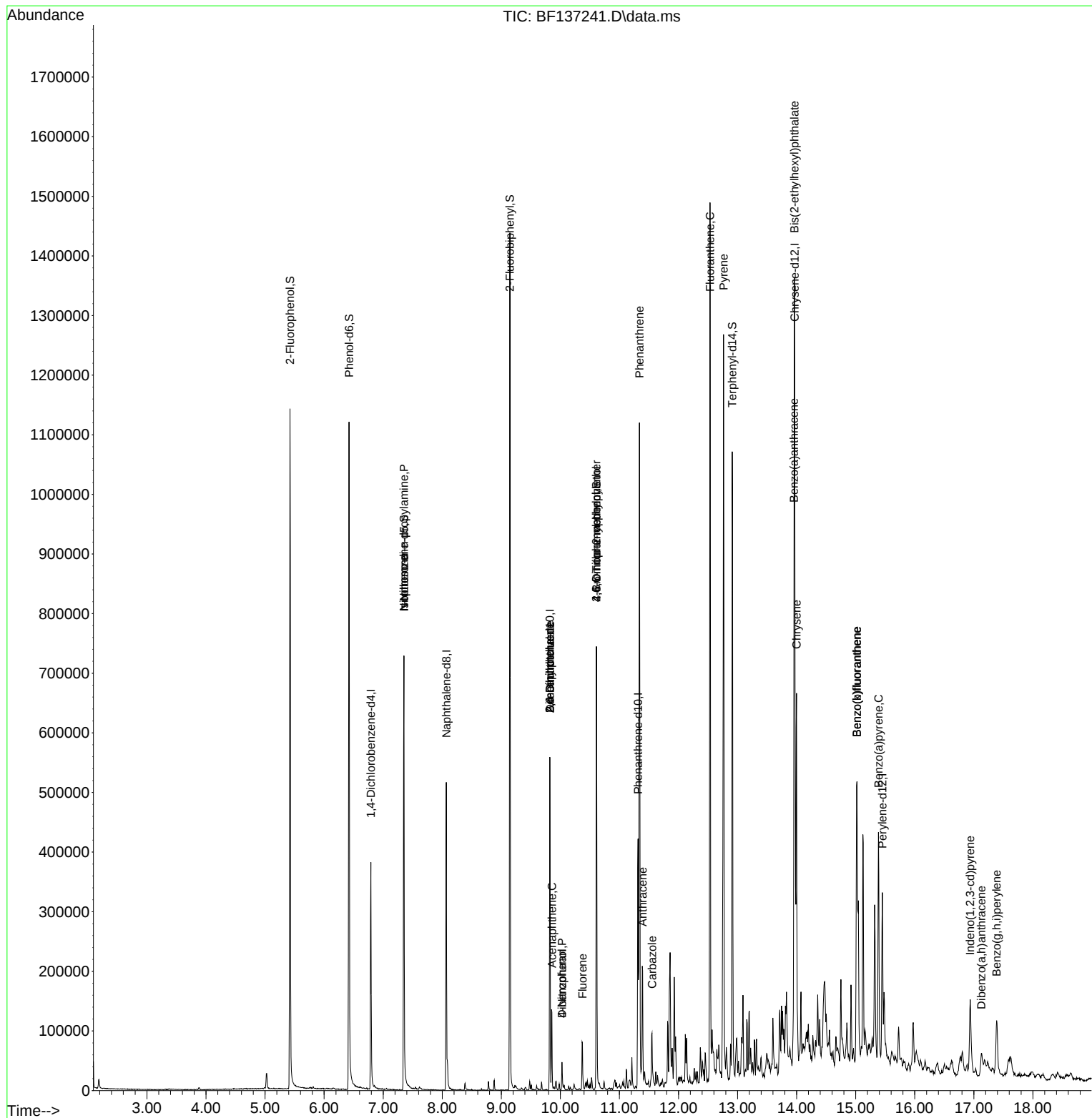
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	54912	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	206043	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	104167	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	169979	20.000	ng	# 0.00
76) Chrysene-d12	13.968	240	156649	20.000	ng	0.00
86) Perylene-d12	15.451	264	140682	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	295147	88.690	ng	0.00
7) Phenol-d6	6.422	99	374802	78.920	ng	0.00
23) Nitrobenzene-d5	7.351	82	244281	53.080	ng	0.00
42) 2,4,6-Tribromophenol	10.610	330	83379	70.876	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	395297	52.166	ng	0.00
79) Terphenyl-d14	12.910	244	376938	32.712	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.351	70	32430	9.959	ng	# 77
25) Isophorone	7.351	82	244279	28.757	ng	# 67
50) Dimethylphthalate	9.822	163	18776	2.668	ng	# 1
51) 2,6-Dinitrotoluene	9.822	165	13408	8.935	ng	# 18
52) Acenaphthene	9.857	154	28675	4.969	ng	97
55) Dibenzofuran	10.027	168	18672	2.034	ng	97
56) 4-Nitrophenol	10.027	139	6980	13.337	ng	# 1
57) 2,4-Dinitrotoluene	9.822	165	13408	6.886	ng	# 16
58) Fluorene	10.374	166	25193	3.500	ng	94
65) 4,6-Dinitro-2-methylph...	10.610	198	145	5.597	ng	# 1
67) 4-Bromophenyl-phenylether	10.610	248	5745	3.074	ng	# 1
71) Phenanthrene	11.339	178	405160	45.531	ng	99
72) Anthracene	11.392	178	97697	10.533	ng	99
73) Carbazole	11.551	167	47052	6.070	ng	98
75) Fluoranthene	12.533	202	592379	63.617	ng	99
78) Pyrene	12.762	202	525020	34.876	ng	98
81) Benzo(a)anthracene	13.957	228	282422	25.457	ng	98
83) Chrysene	13.998	228	273652	25.090	ng	98
84) Bis(2-ethylhexyl)phtha...	13.962	149	132828	29.647	ng	99
87) Indeno(1,2,3-cd)pyrene	16.939	276	90157	9.122	ng	97
88) Benzo(b)fluoranthene	15.021	252	402984	46.578	ng	99
89) Benzo(k)fluoranthene	15.021	252	402984	44.029	ng	98
90) Benzo(a)pyrene	15.386	252	202951	24.927	ng	99
91) Dibenzo(a,h)anthracene	17.127	278	16592	2.095	ng	95
92) Benzo(g,h,i)perylene	17.386	276	85504	11.000	ng	95

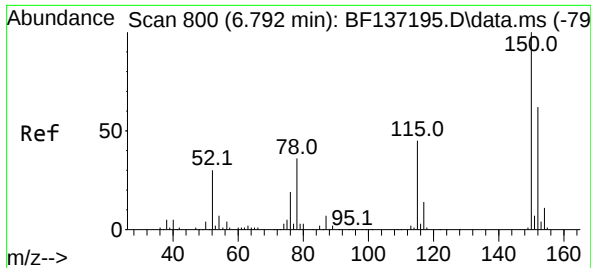
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020124\
Data File : BF137241.D
Acq On : 01 Feb 2024 19:54
Operator : CG\JU
Sample : P1313-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
COMP-1

Quant Time: Feb 02 01:16:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF013024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 31 04:56:22 2024
Response via : Initial Calibration

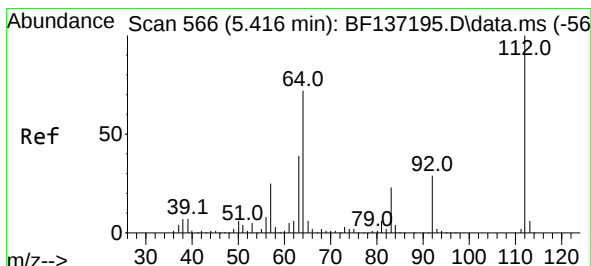
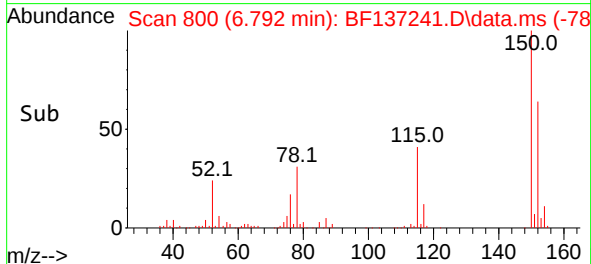
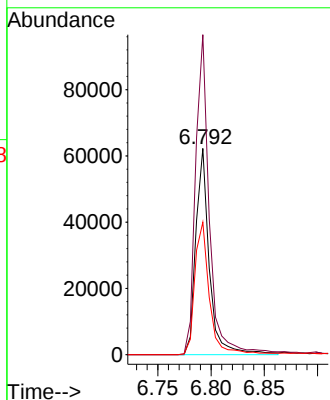
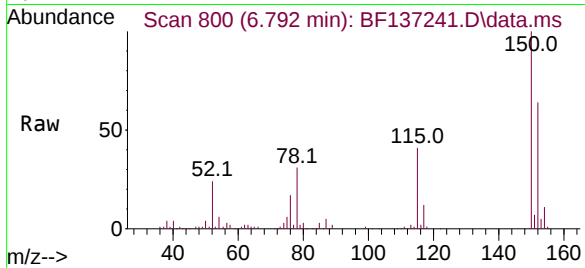




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

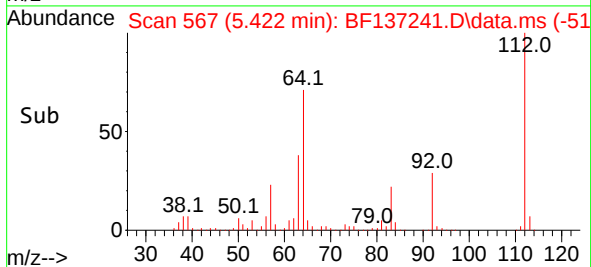
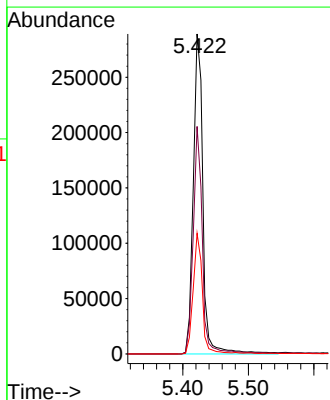
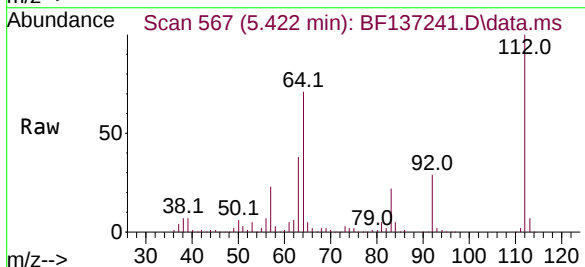
Instrument :
BNA_F
ClientSampleId :
COMP-1

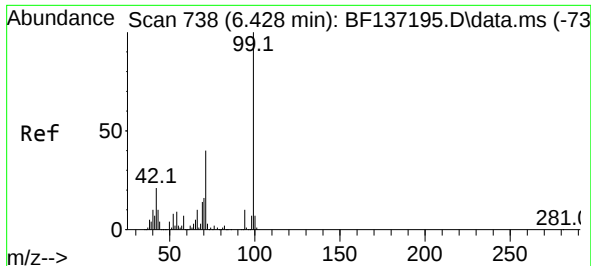
Tgt Ion:152 Resp: 54912
Ion Ratio Lower Upper
152 100
150 155.3 129.8 194.8
115 64.2 58.5 87.7



#5
2-Fluorophenol
Concen: 88.690 ng
RT: 5.422 min Scan# 567
Delta R.T. 0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:112 Resp: 295147
Ion Ratio Lower Upper
112 100
64 71.1 57.8 86.6
63 37.7 31.4 47.0





#7

Phenol-d6

Concen: 78.920 ng

RT: 6.422 min Scan# 738

Delta R.T. -0.006 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Instrument :

BNA_F

ClientSampleId :

COMP-1

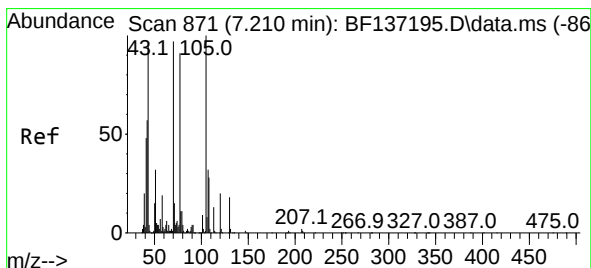
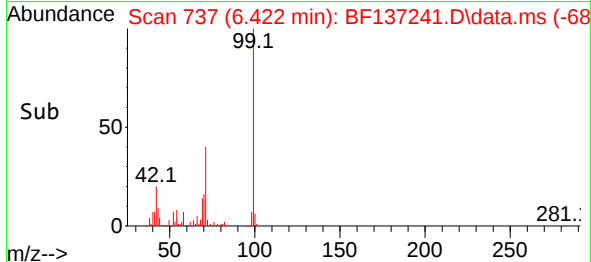
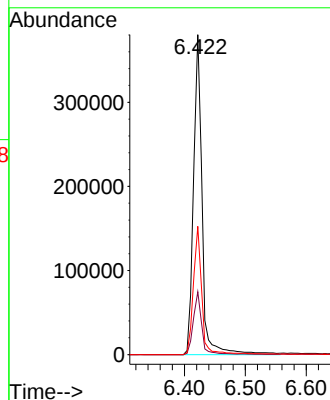
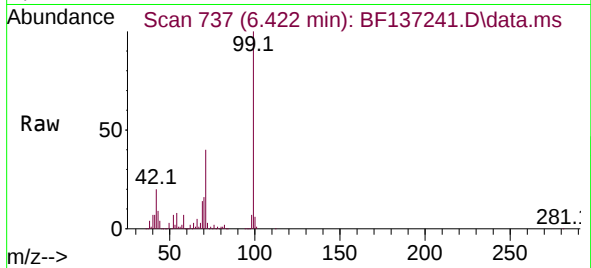
Tgt Ion: 99 Resp: 374802

Ion Ratio Lower Upper

99 100

42 19.6 16.4 24.6

71 40.1 32.4 48.6



#19

n-Nitroso-di-n-propylamine

Concen: 9.959 ng

RT: 7.351 min Scan# 895

Delta R.T. 0.141 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Tgt Ion: 70 Resp: 32430

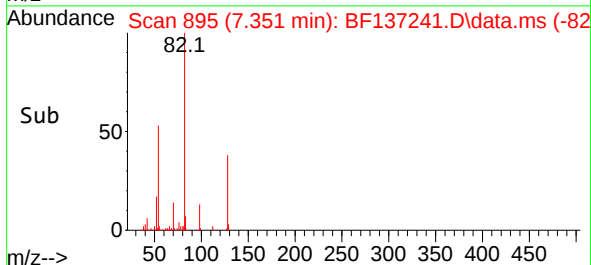
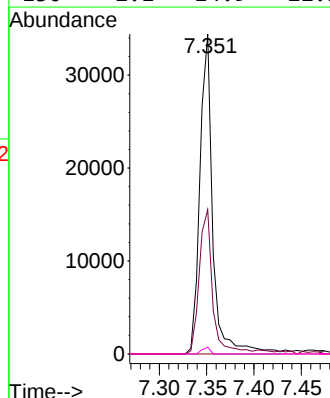
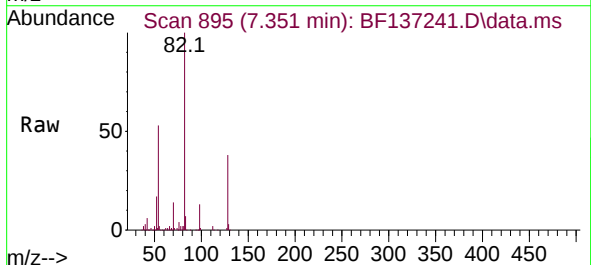
Ion Ratio Lower Upper

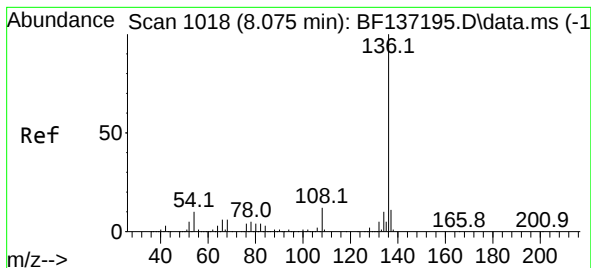
70 100

42 45.1 47.2 70.8#

101 0.0 7.4 11.0#

130 2.1 14.9 22.3#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Instrument :

BNA_F

ClientSampleId :

COMP-1

Tgt Ion:136 Resp: 206043

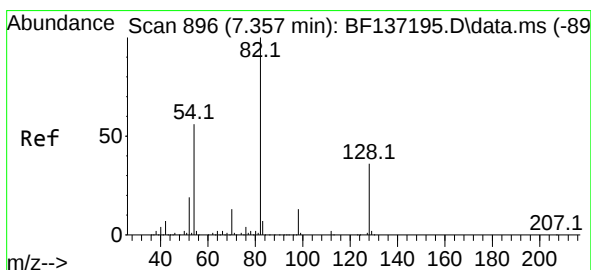
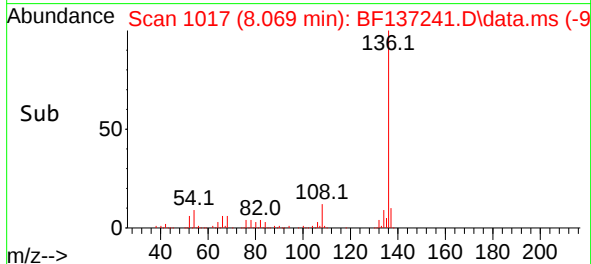
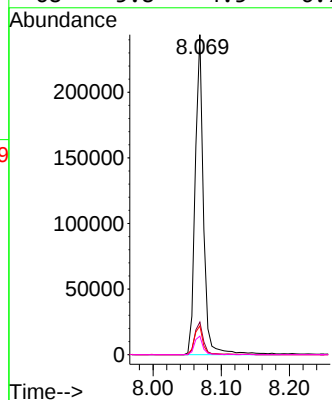
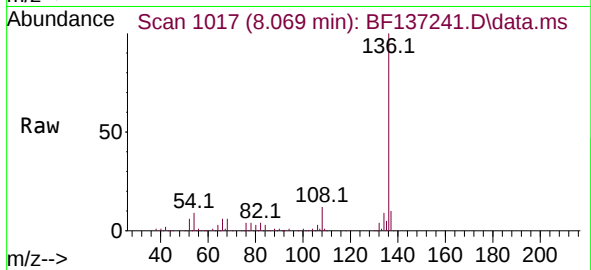
Ion Ratio Lower Upper

136 100

137 10.2 8.9 13.3

54 9.0 7.8 11.8

68 5.8 4.5 6.7



#23

Nitrobenzene-d5

Concen: 53.080 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

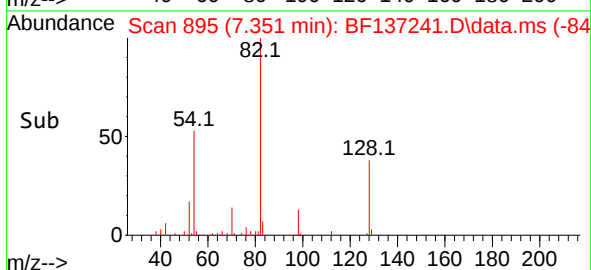
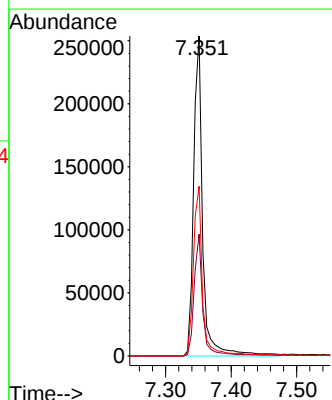
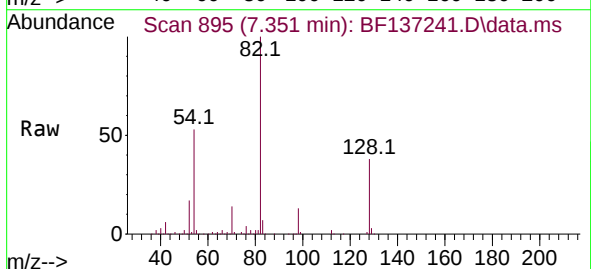
Tgt Ion: 82 Resp: 244281

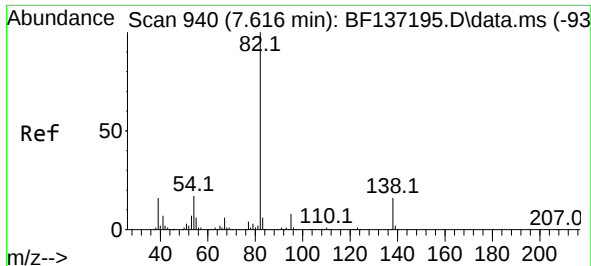
Ion Ratio Lower Upper

82 100

128 38.0 29.1 43.7

54 53.0 45.0 67.6

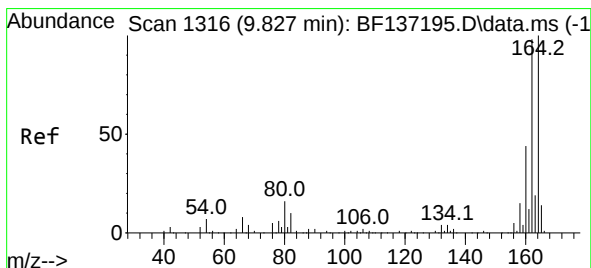
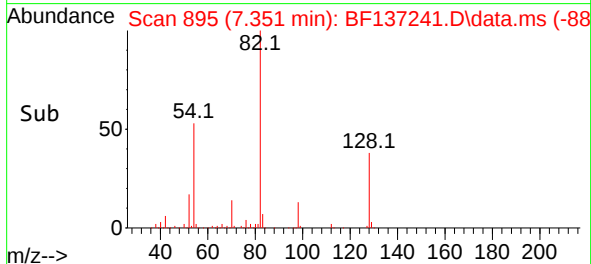
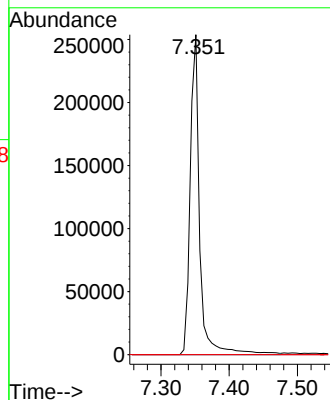
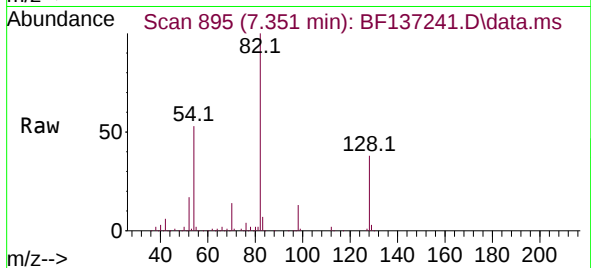




#25
Isophorone
Concen: 28.757 ng
RT: 7.351 min Scan# 89
Delta R.T. -0.265 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

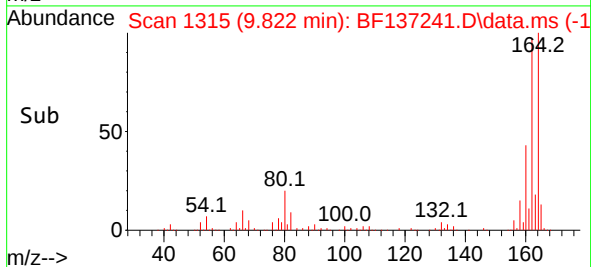
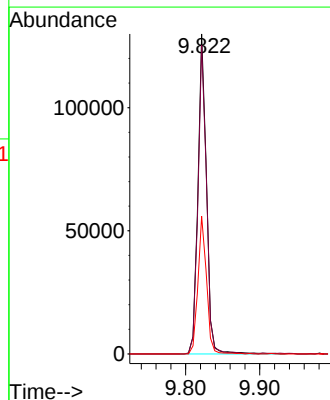
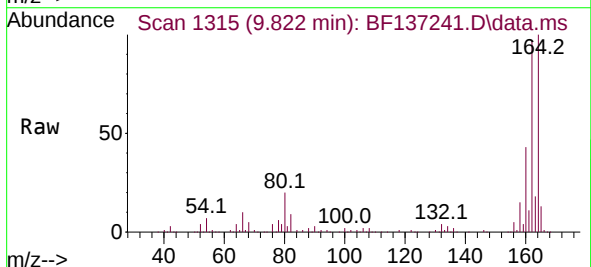
Instrument :
BNA_F
ClientSampleId :
COMP-1

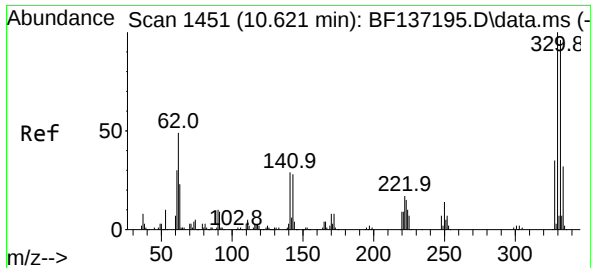
Tgt Ion: 82 Resp: 244279
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 12.7 19.1#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

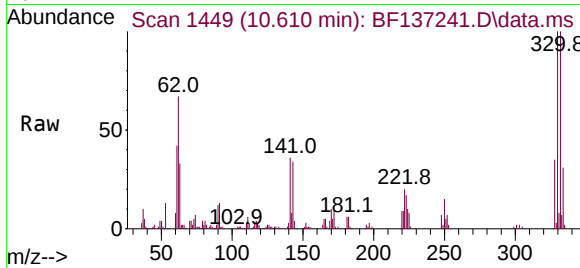
Tgt Ion: 164 Resp: 104167
Ion Ratio Lower Upper
164 100
162 96.5 78.3 117.5
160 43.0 35.4 53.2



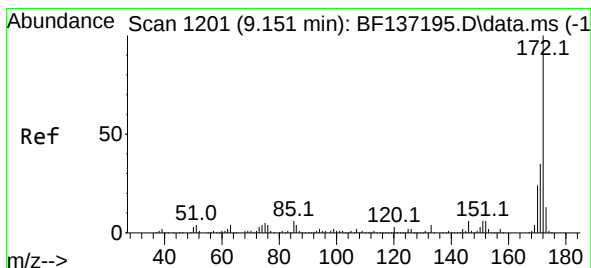
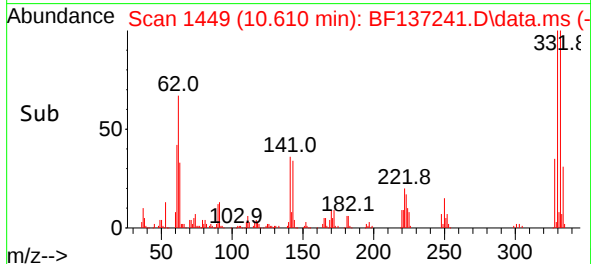
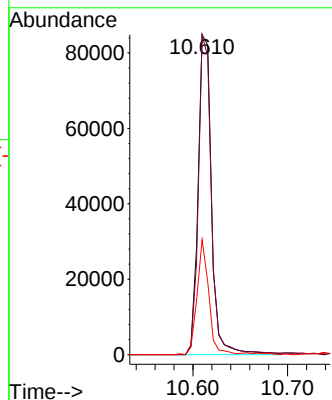


#42
2,4,6-Tribromophenol
Concen: 70.876 ng
RT: 10.610 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Instrument :
BNA_F
ClientSampleId :
COMP-1

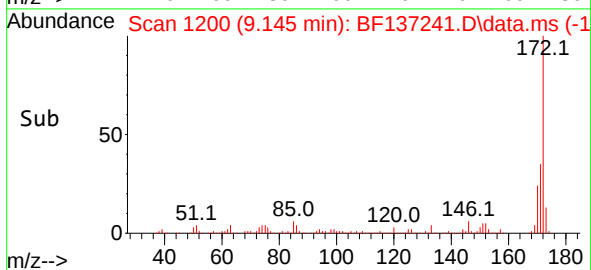
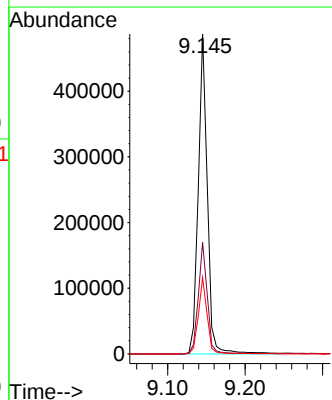
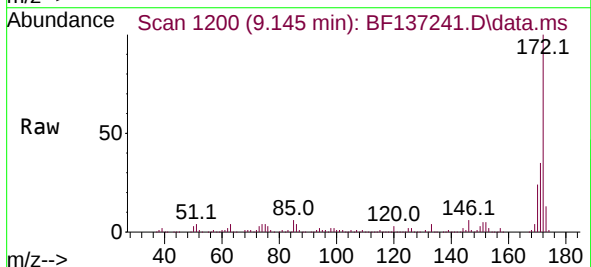


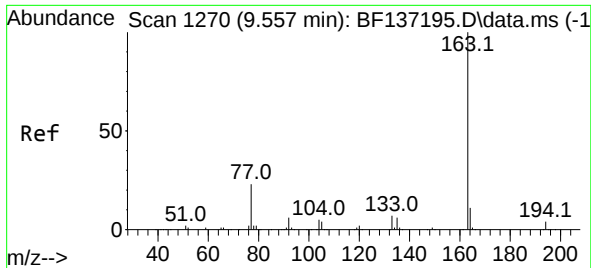
Tgt Ion:330 Resp: 83379
Ion Ratio Lower Upper
330 100
332 97.2 77.3 115.9
141 31.1 25.2 37.8



#45
2-Fluorobiphenyl
Concen: 52.166 ng
RT: 9.145 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:172 Resp: 395297
Ion Ratio Lower Upper
172 100
171 34.9 28.3 42.5
170 23.8 19.1 28.7

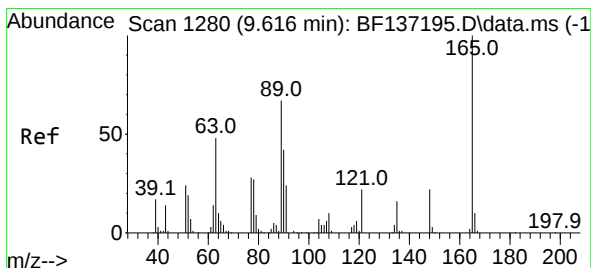
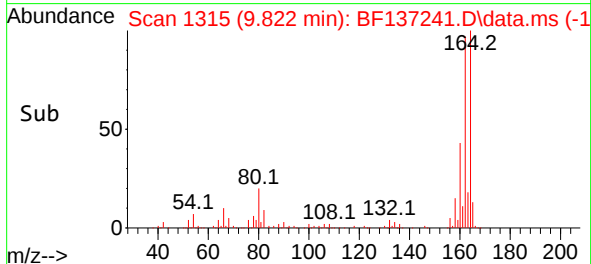
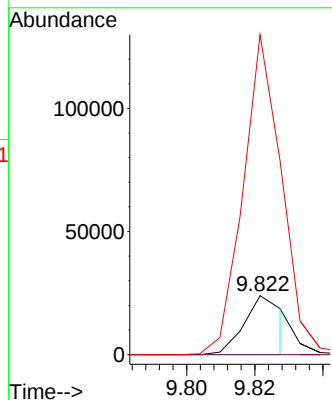
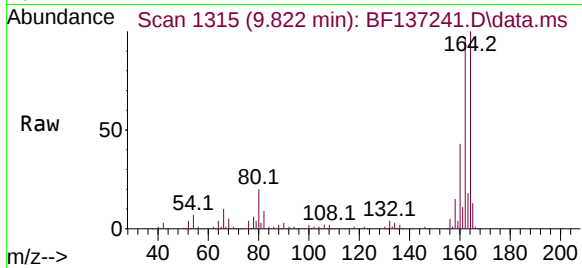




#50
Dimethylphthalate
Concen: 2.668 ng
RT: 9.822 min Scan# 1315
Delta R.T. 0.265 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

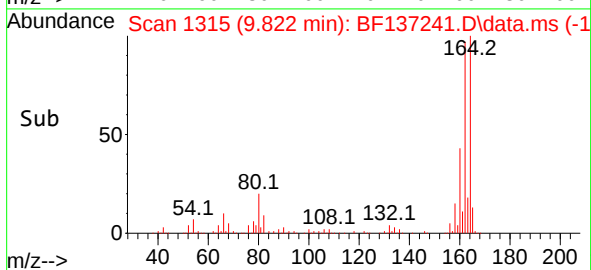
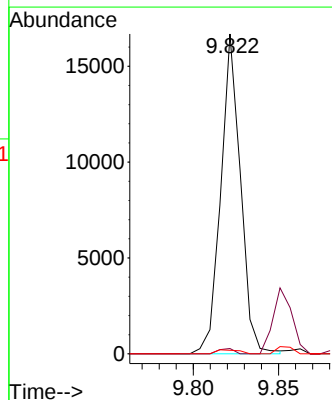
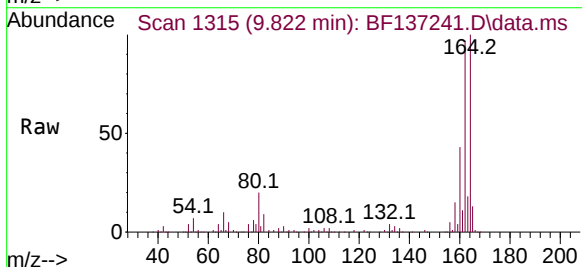
Instrument :
BNA_F
ClientSampleId :
COMP-1

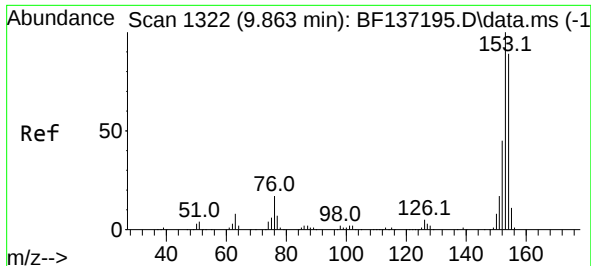
Tgt Ion:163 Resp: 18776
Ion Ratio Lower Upper
163 100
194 0.0 3.3 4.9#
164 542.0 8.6 13.0#



#51
2,6-Dinitrotoluene
Concen: 8.935 ng
RT: 9.822 min Scan# 1315
Delta R.T. 0.206 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:165 Resp: 13408
Ion Ratio Lower Upper
165 100
63 1.7 55.1 82.7#
89 1.1 53.5 80.3#

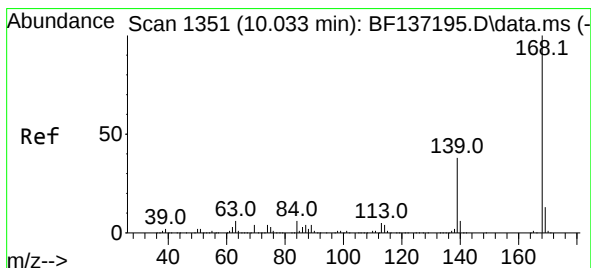
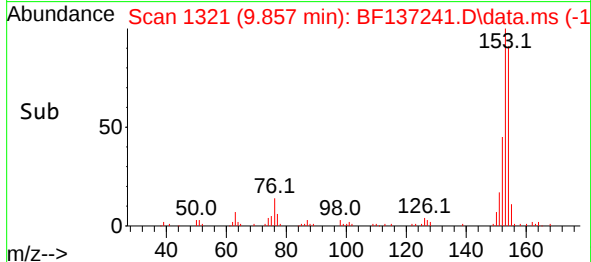
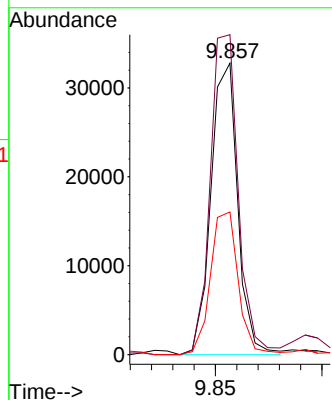
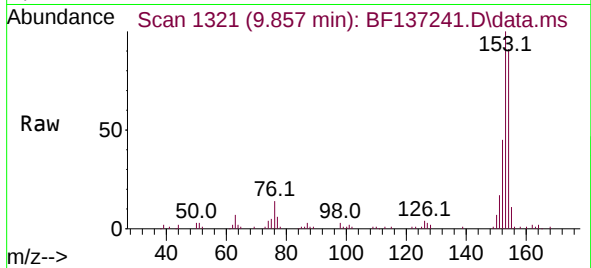




#52
Acenaphthene
Concen: 4.969 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

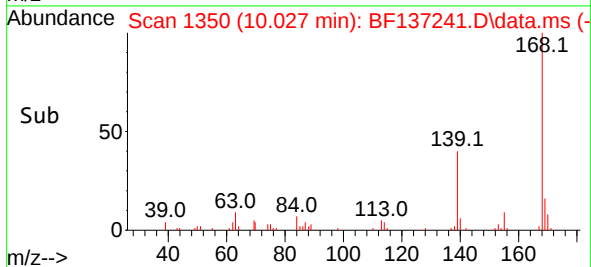
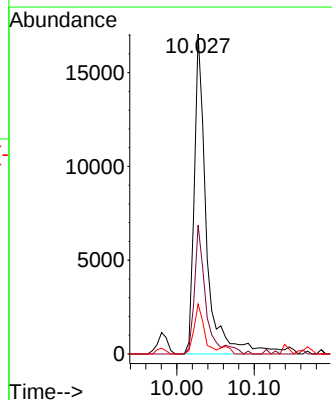
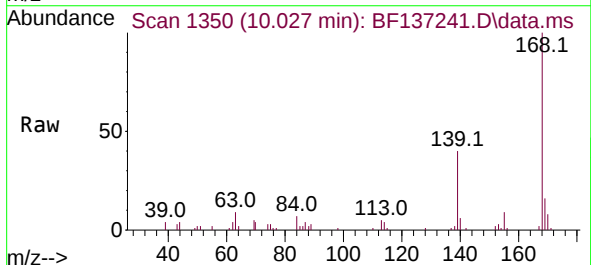
Instrument :
BNA_F
ClientSampleId :
COMP-1

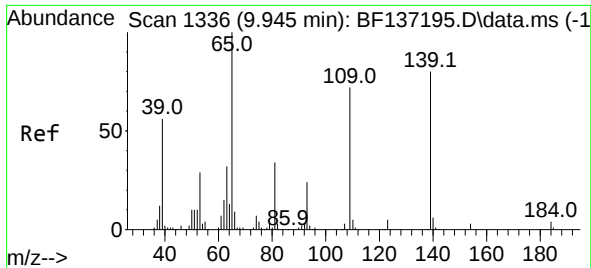
Tgt Ion:154 Resp: 28675
Ion Ratio Lower Upper
154 100
153 109.8 90.2 135.4
152 48.9 40.6 60.8



#55
Dibenzofuran
Concen: 2.034 ng
RT: 10.027 min Scan# 1350
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:168 Resp: 18672
Ion Ratio Lower Upper
168 100
139 40.2 31.1 46.7
169 15.5 10.6 16.0

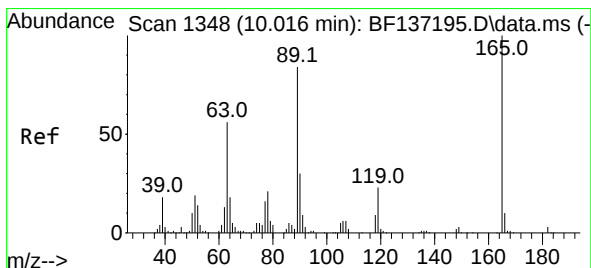
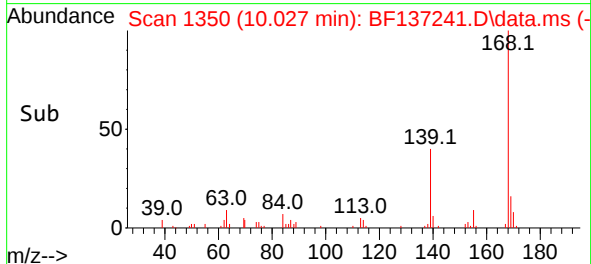
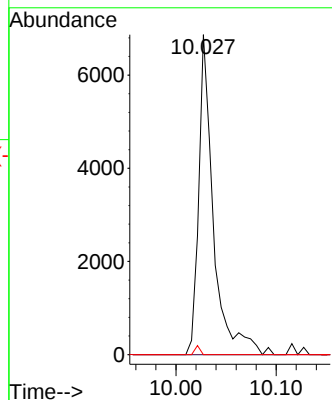
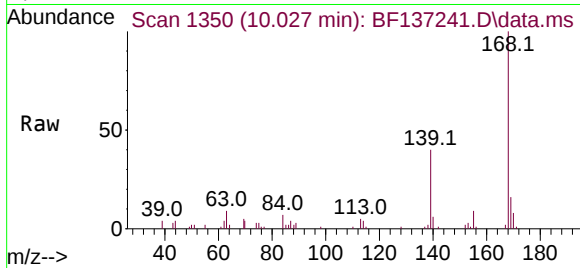




#56
4-Nitrophenol
Concen: 13.337 ng
RT: 10.027 min Scan# 1336
Delta R.T. 0.082 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

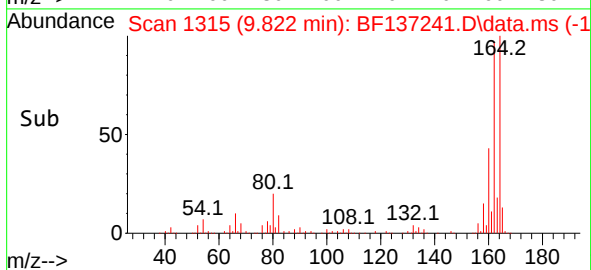
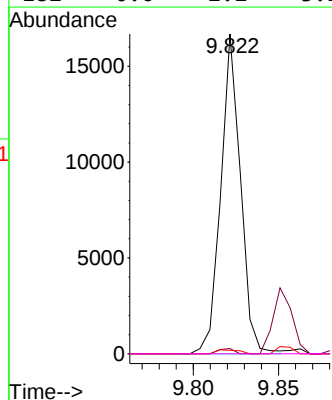
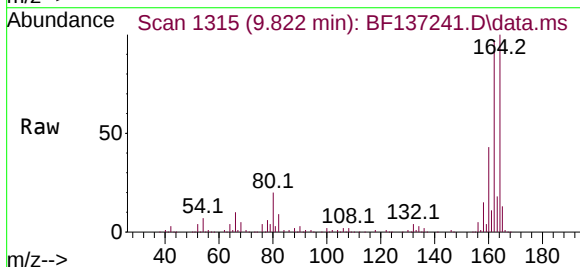
Instrument :
BNA_F
ClientSampleId :
COMP-1

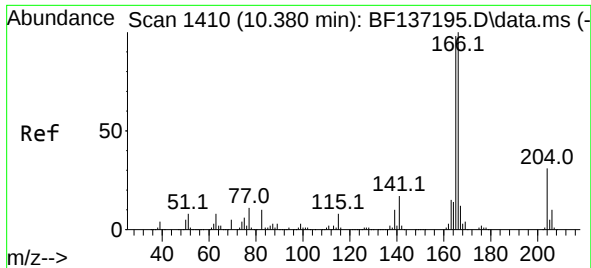
Tgt Ion:139 Resp: 6980
Ion Ratio Lower Upper
139 100
109 0.0 70.4 110.4#
65 0.0 107.6 147.6#



#57
2,4-Dinitrotoluene
Concen: 6.886 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.194 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:165 Resp: 13408
Ion Ratio Lower Upper
165 100
63 1.7 46.1 69.1#
89 1.1 67.5 101.3#
182 0.0 2.2 3.2#

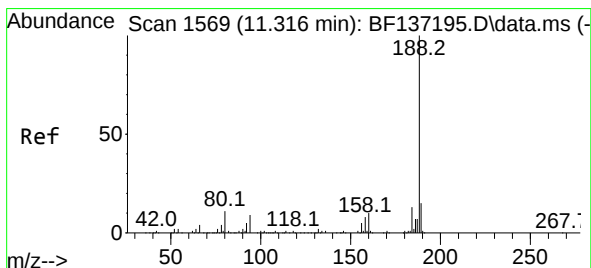
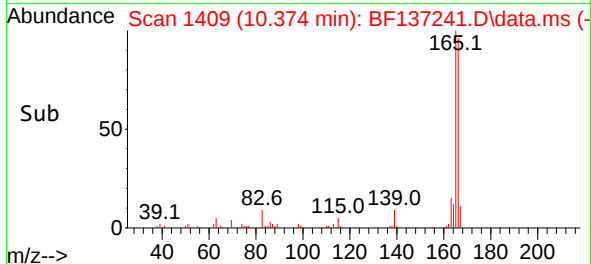
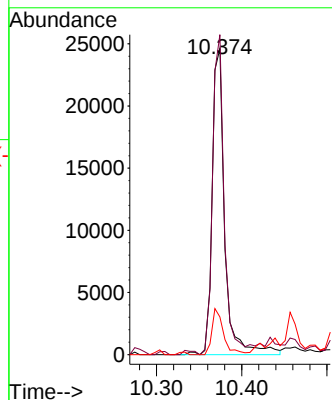
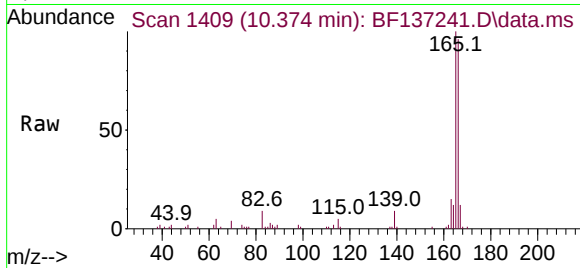




#58
Fluorene
Concen: 3.500 ng
RT: 10.374 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

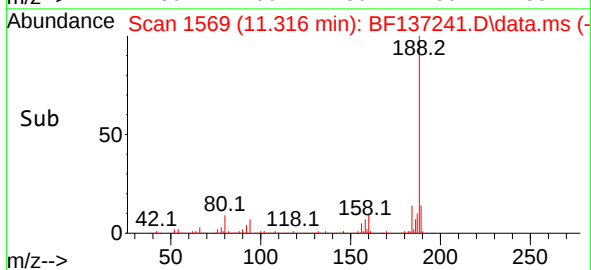
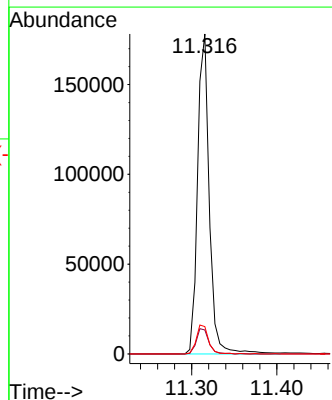
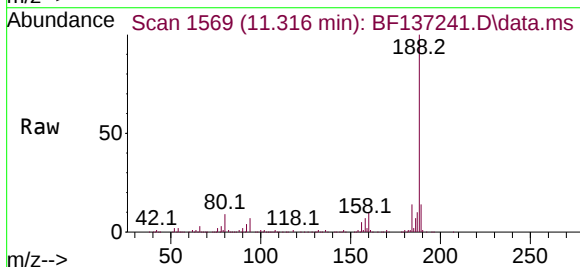
Instrument :
BNA_F
ClientSampleId :
COMP-1

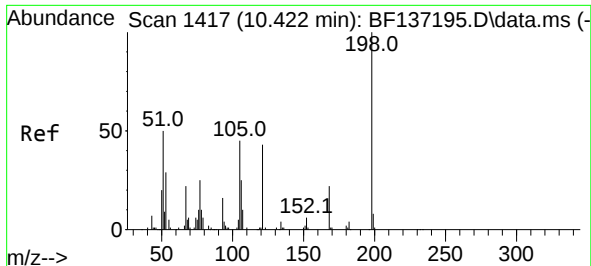
Tgt Ion:166 Resp: 25193
Ion Ratio Lower Upper
166 100
165 104.5 78.5 117.7
167 12.3 10.0 15.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:188 Resp: 169979
Ion Ratio Lower Upper
188 100
94 7.5 7.0 10.4
80 8.5 8.8 13.2#





#65

4,6-Dinitro-2-methylphenol

Concen: 5.597 ng

RT: 10.610 min Scan# 1417

Delta R.T. 0.188 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Instrument :

BNA_F

ClientSampleId :

COMP-1

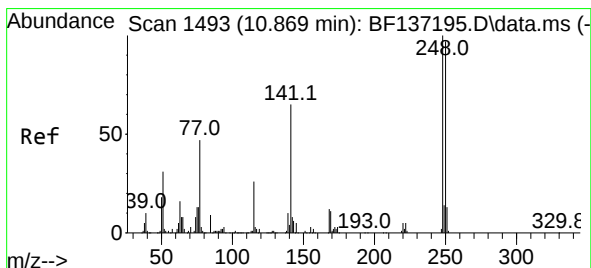
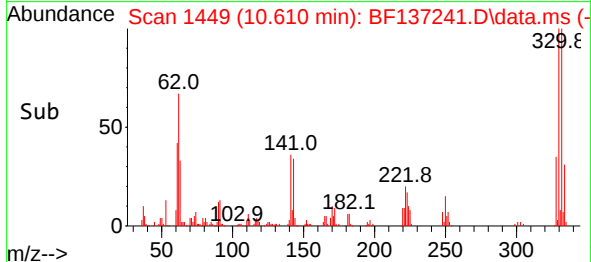
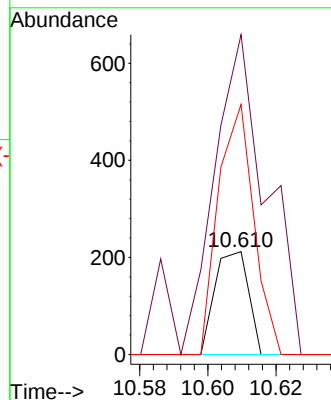
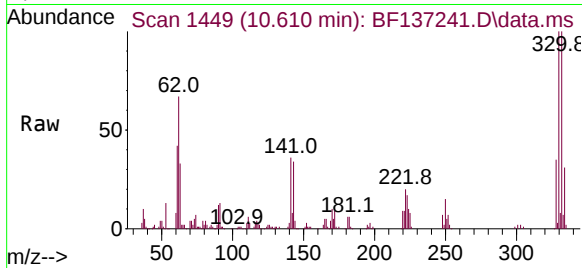
Tgt Ion:198 Resp: 145

Ion Ratio Lower Upper

198 100

51 310.8 40.9 80.9#

105 242.9 26.5 66.5#



#67

4-Bromophenyl-phenylether

Concen: 3.074 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.259 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

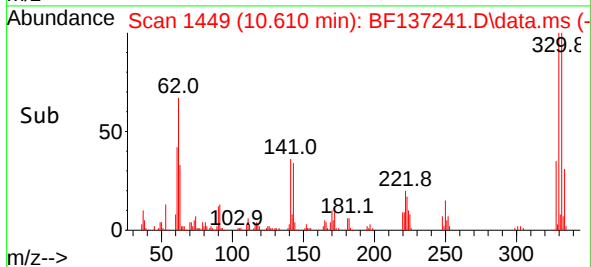
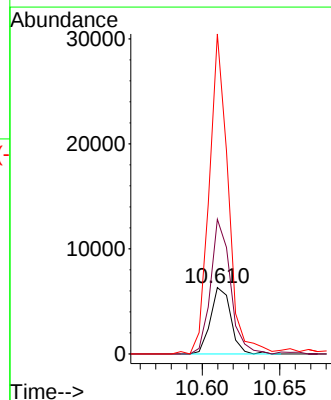
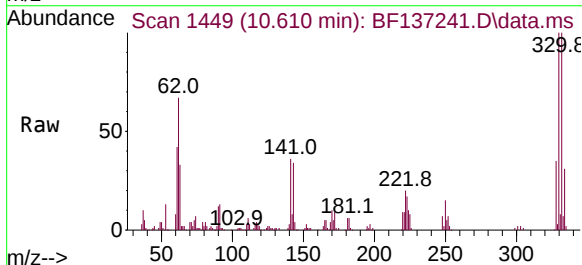
Tgt Ion:248 Resp: 5745

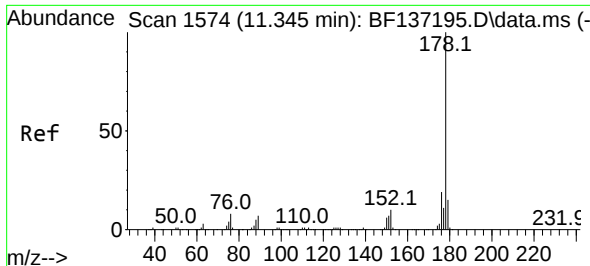
Ion Ratio Lower Upper

248 100

250 202.8 77.7 116.5#

141 482.2 51.6 77.4#

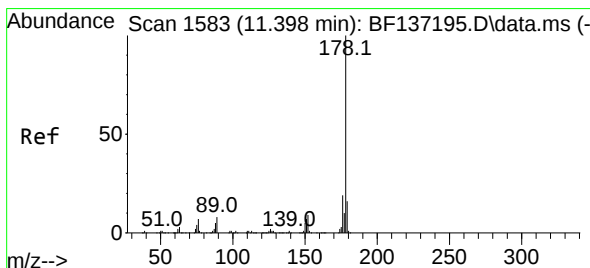
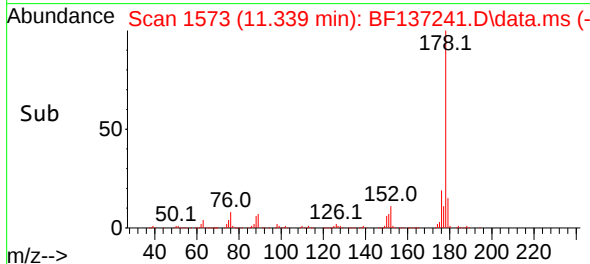
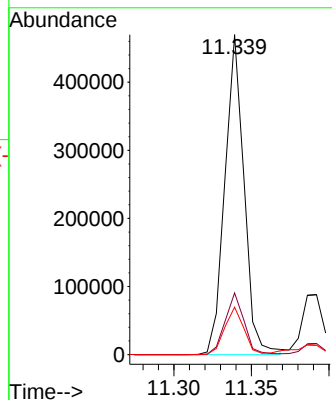
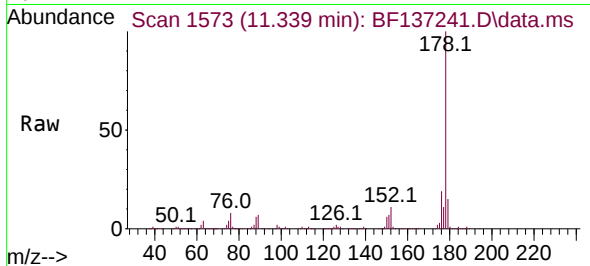




#71
Phenanthrene
Concen: 45.531 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

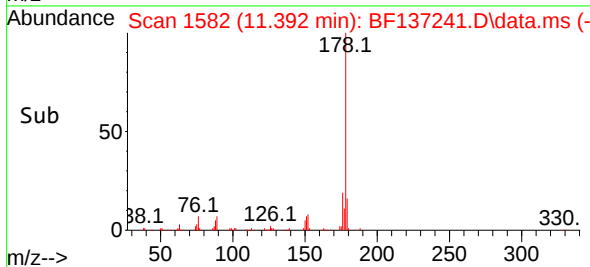
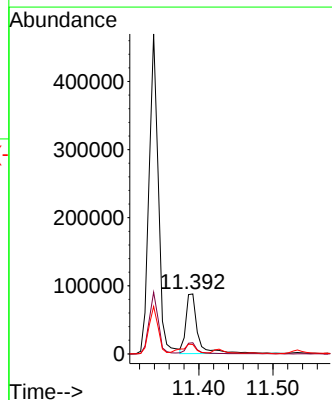
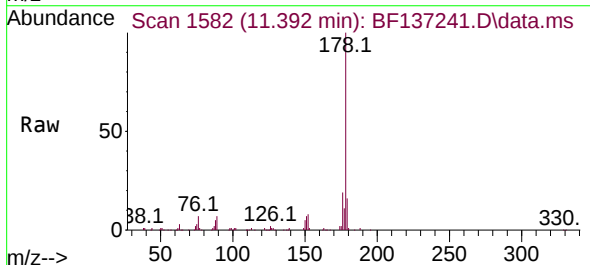
Instrument :
BNA_F
ClientSampleId :
COMP-1

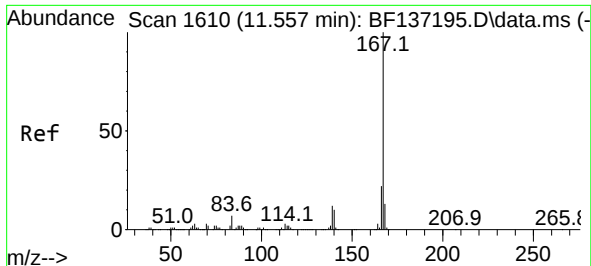
Tgt Ion:178 Resp: 405160
Ion Ratio Lower Upper
178 100
176 19.3 15.1 22.7
179 14.8 12.1 18.1



#72
Anthracene
Concen: 10.533 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:178 Resp: 97697
Ion Ratio Lower Upper
178 100
176 18.5 15.3 22.9
179 15.6 12.7 19.1

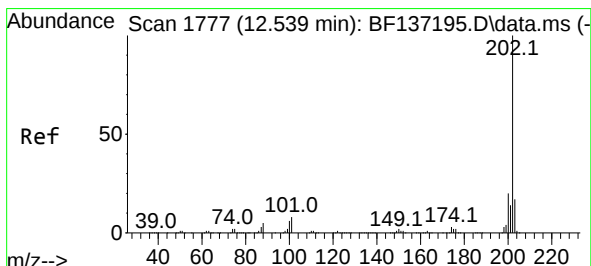
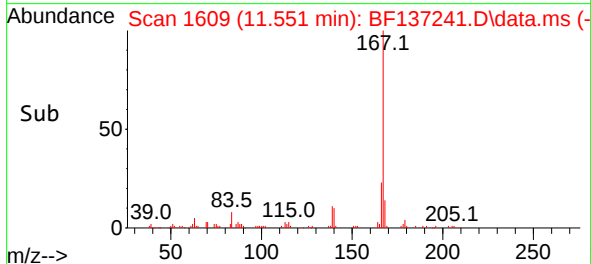
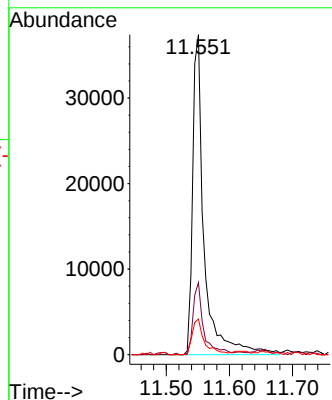
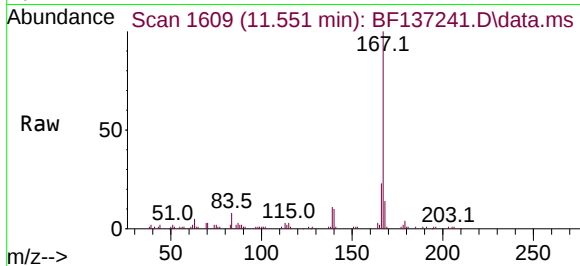




#73
 Carbazole
 Concen: 6.070 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.006 min
 Lab File: BF137241.D
 Acq: 01 Feb 2024 19:54

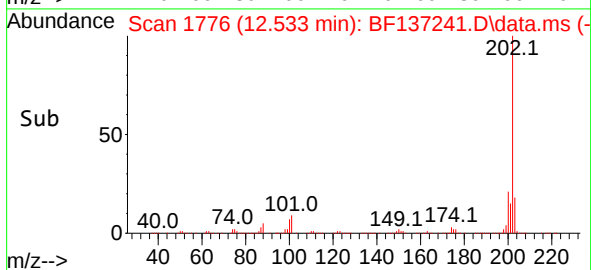
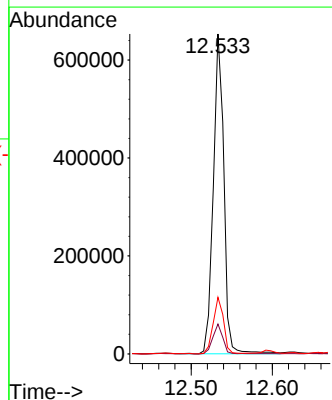
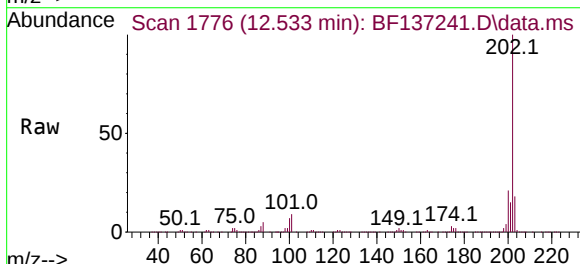
Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

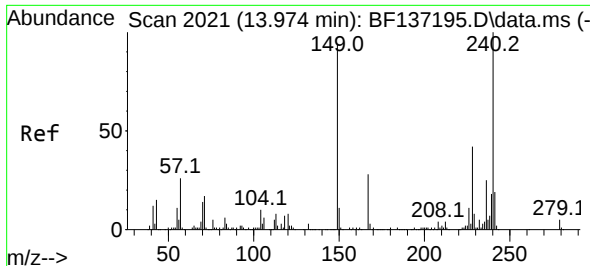
Tgt Ion:167	Resp:	47052
Ion Ratio	Lower	Upper
167	100	
166	22.5	17.6 26.4
139	11.1	9.7 14.5



#75
 Fluoranthene
 Concen: 63.617 ng
 RT: 12.533 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF137241.D
 Acq: 01 Feb 2024 19:54

Tgt Ion:202	Resp:	592379
Ion Ratio	Lower	Upper
202	100	
101	9.4	0.0 28.4
203	17.7	0.0 37.3

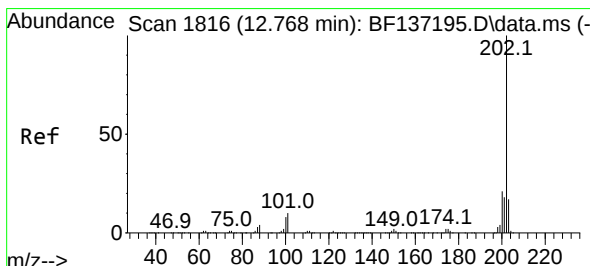
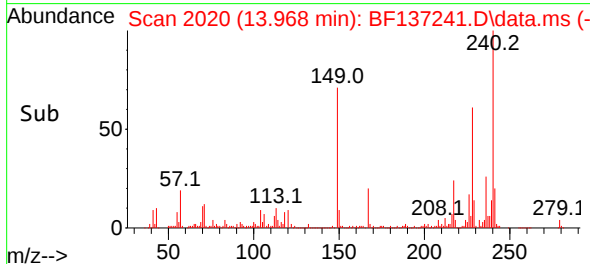
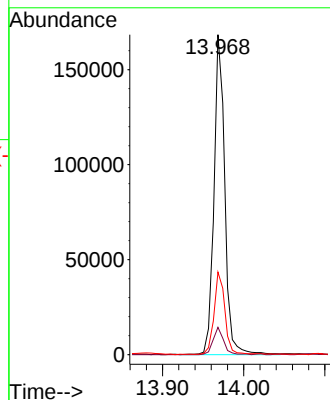
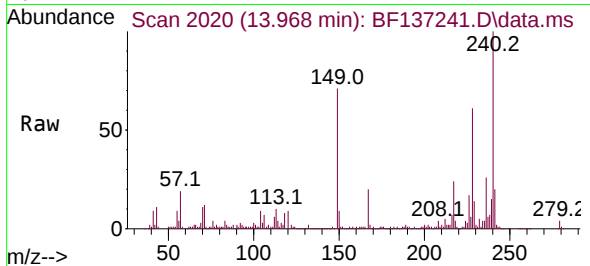




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

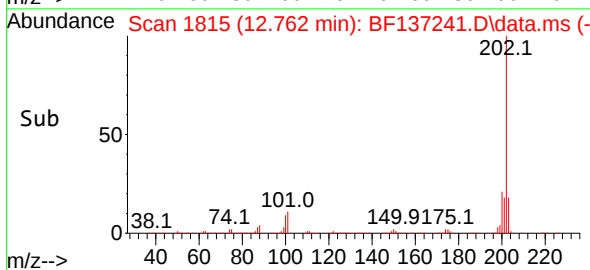
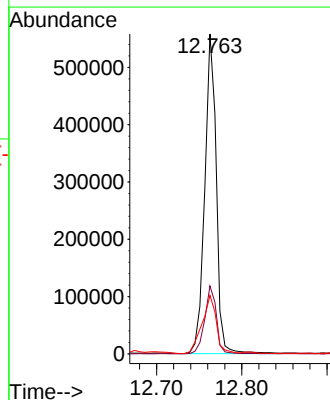
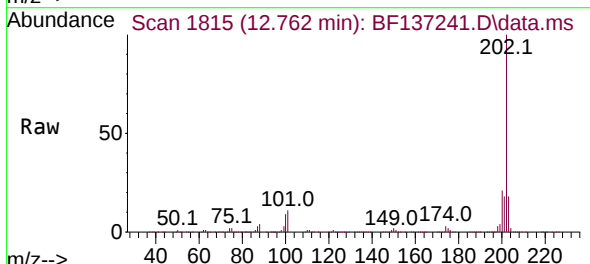
Instrument :
BNA_F
ClientSampleId :
COMP-1

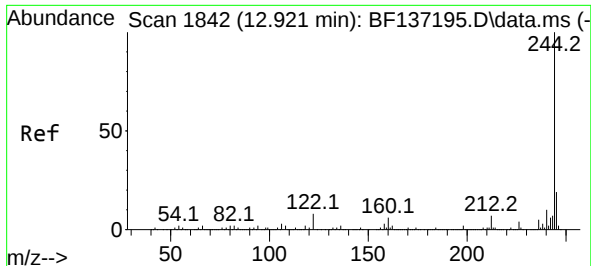
Tgt Ion:240 Resp: 156649
Ion Ratio Lower Upper
240 100
120 8.5 6.3 9.5
236 25.8 20.3 30.5



#78
Pyrene
Concen: 34.876 ng
RT: 12.762 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF137241.D
Acq: 01 Feb 2024 19:54

Tgt Ion:202 Resp: 525020
Ion Ratio Lower Upper
202 100
200 21.2 16.5 24.7
203 18.3 13.8 20.6

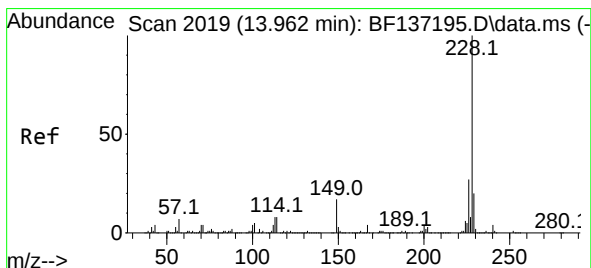
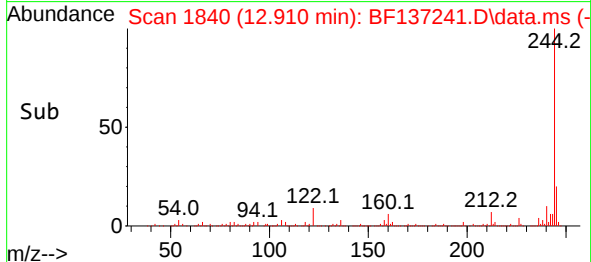
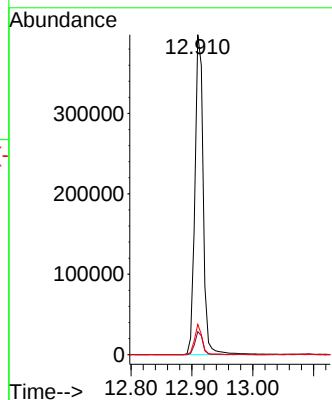
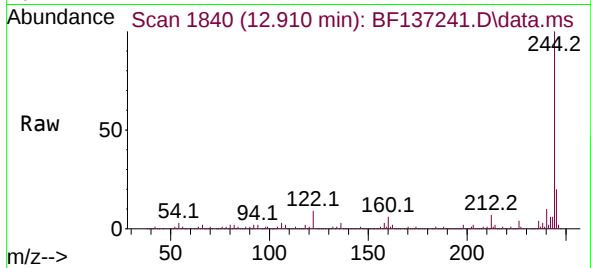




#79
 Terphenyl-d14
 Concen: 32.712 ng
 RT: 12.910 min Scan# 1842
 Delta R.T. -0.012 min
 Lab File: BF137241.D
 Acq: 01 Feb 2024 19:54

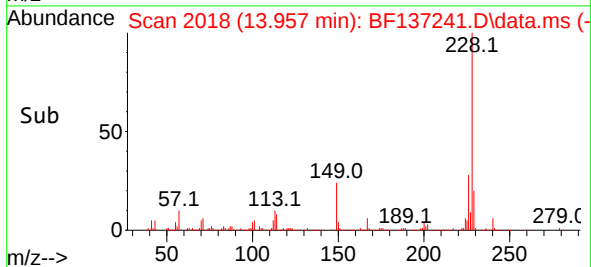
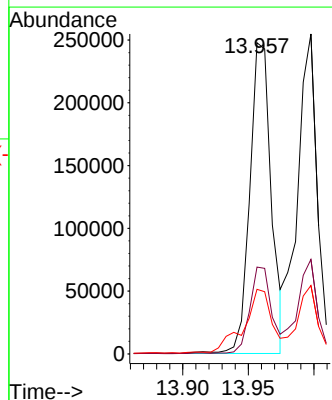
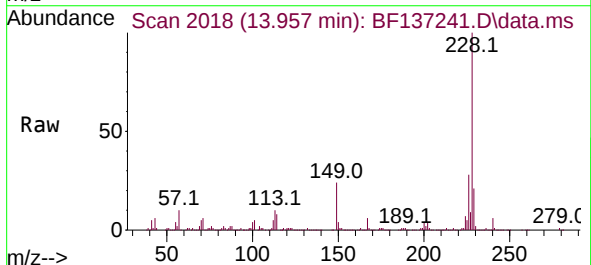
Instrument :
 BNA_F
 ClientSampleId :
 COMP-1

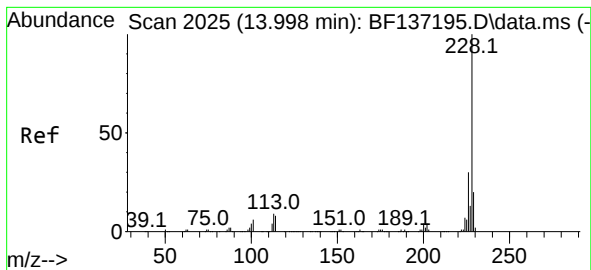
Tgt Ion:244 Resp: 376938
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.5 8.3
 122 9.4 6.2 9.4#



#81
 Benzo(a)anthracene
 Concen: 25.457 ng
 RT: 13.957 min Scan# 2018
 Delta R.T. -0.006 min
 Lab File: BF137241.D
 Acq: 01 Feb 2024 19:54

Tgt Ion:228 Resp: 282422
 Ion Ratio Lower Upper
 228 100
 226 27.9 21.6 32.4
 229 20.8 15.8 23.6





#83

Chrysene

Concen: 25.090 ng

RT: 13.998 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Instrument :

BNA_F

ClientSampleId :

COMP-1

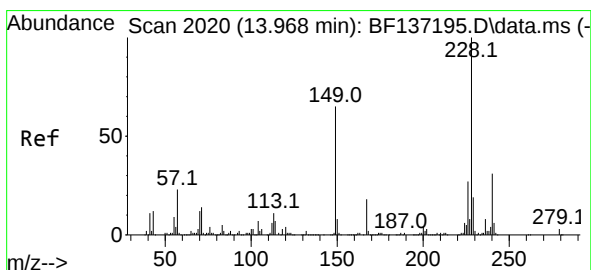
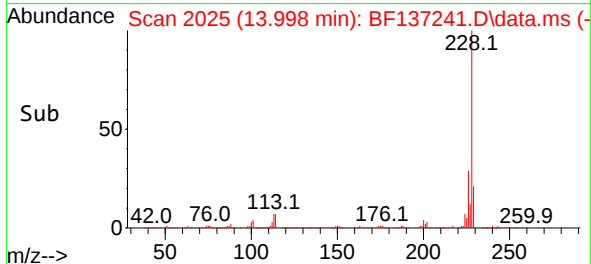
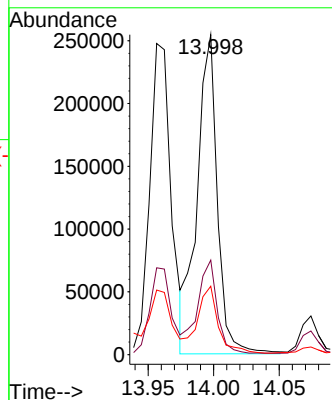
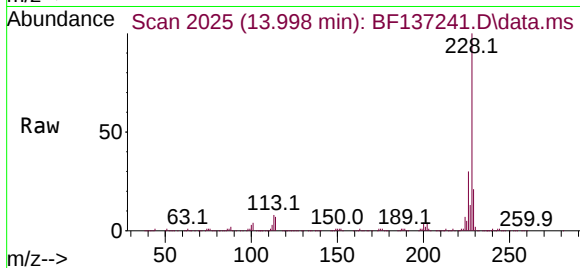
Tgt Ion:228 Resp: 273652

Ion Ratio Lower Upper

228 100

226 29.5 23.7 35.5

229 21.4 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 29.647 ng

RT: 13.962 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

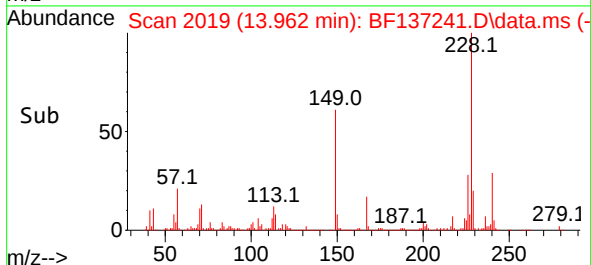
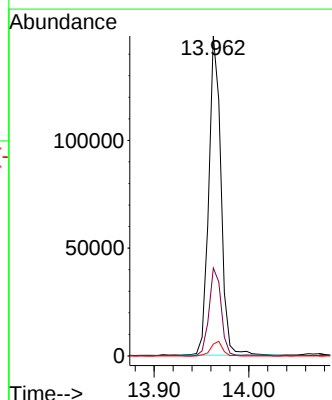
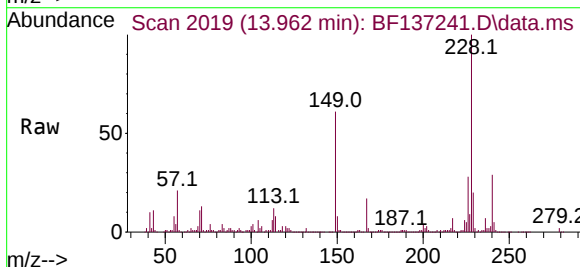
Tgt Ion:149 Resp: 132828

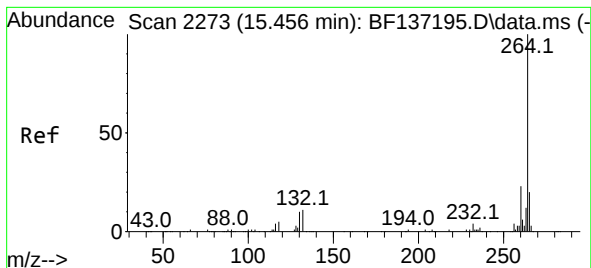
Ion Ratio Lower Upper

149 100

167 27.5 21.7 32.5

279 3.7 3.4 5.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Instrument :

BNA_F

ClientSampleId :

COMP-1

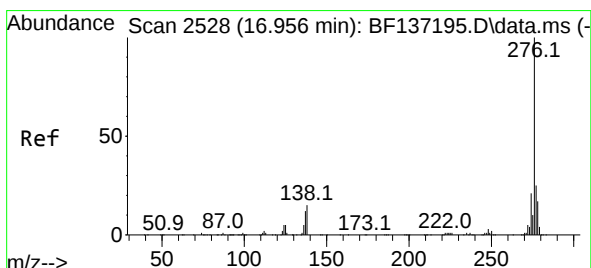
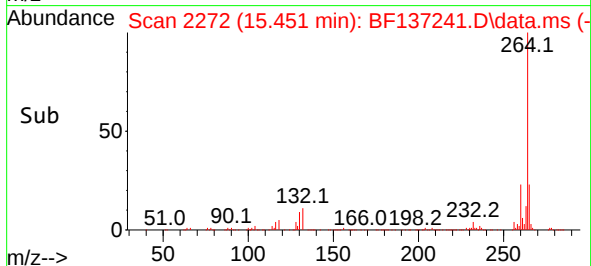
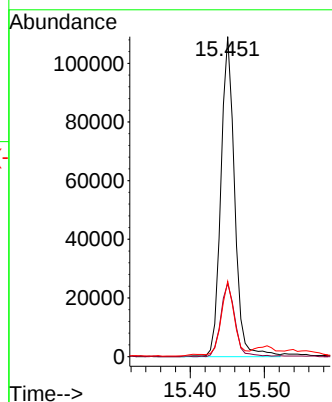
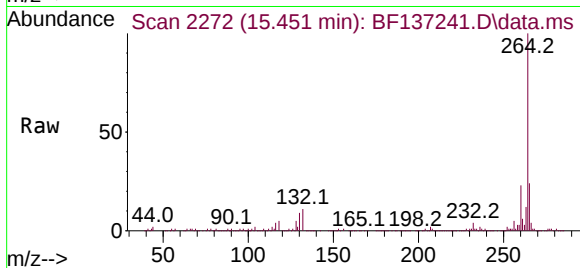
Tgt Ion:264 Resp: 140682

Ion Ratio Lower Upper

264 100

260 22.9 18.2 27.4

265 23.5 16.2 24.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.122 ng

RT: 16.939 min Scan# 2525

Delta R.T. -0.018 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

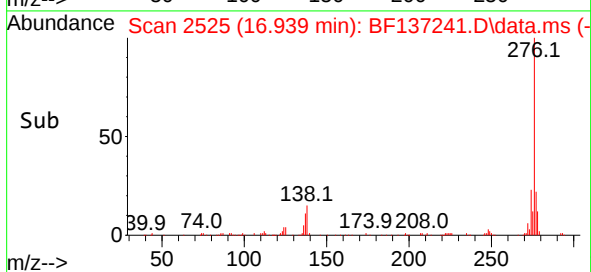
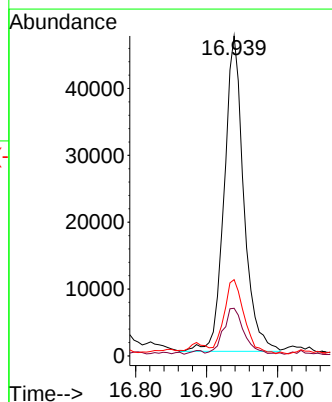
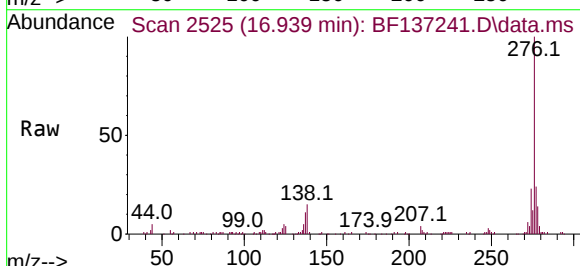
Tgt Ion:276 Resp: 90157

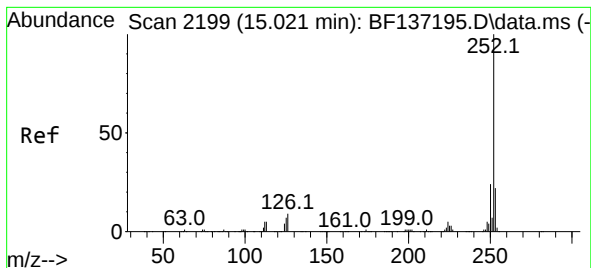
Ion Ratio Lower Upper

276 100

138 16.5 14.6 21.8

277 24.4 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 46.578 ng

RT: 15.021 min Scan# 2199

Delta R.T. -0.000 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Instrument :

BNA_F

ClientSampleId :

COMP-1

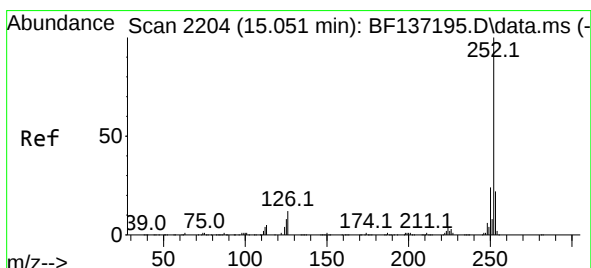
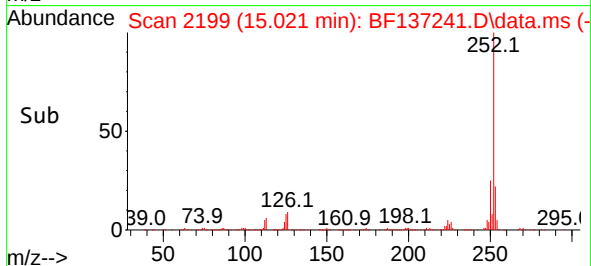
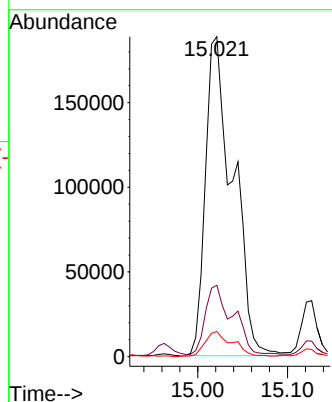
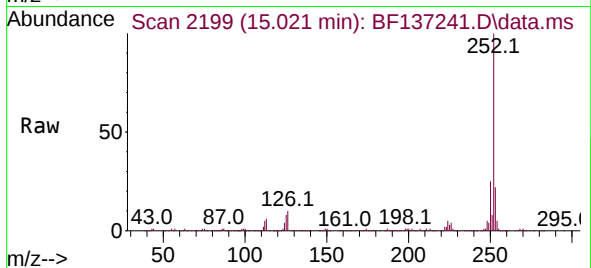
Tgt Ion:252 Resp: 402984

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

125 7.8 5.4 8.2



#89

Benzo(k)fluoranthene

Concen: 44.029 ng

RT: 15.021 min Scan# 2199

Delta R.T. -0.029 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

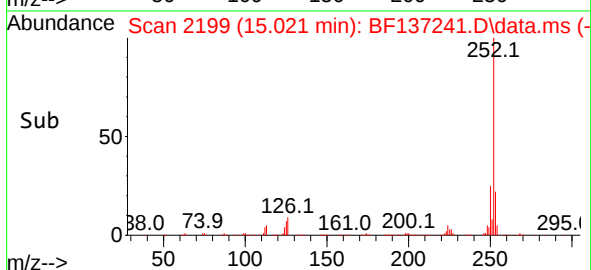
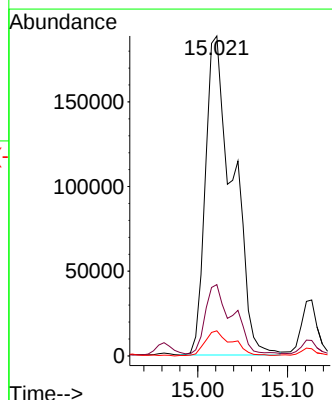
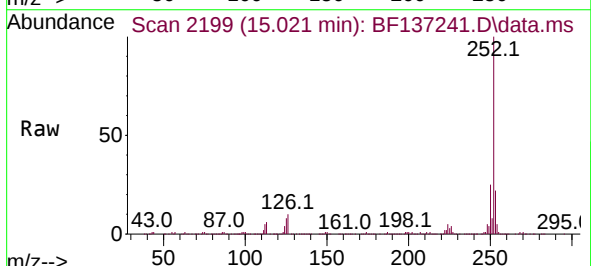
Tgt Ion:252 Resp: 402984

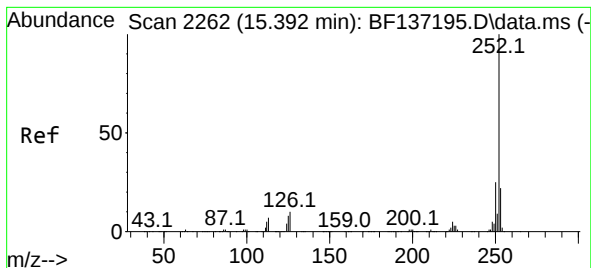
Ion Ratio Lower Upper

252 100

253 22.3 17.0 25.6

125 7.8 5.9 8.9





#90

Benzo(a)pyrene

Concen: 24.927 ng

RT: 15.386 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

Instrument :

BNA_F

ClientSampleId :

COMP-1

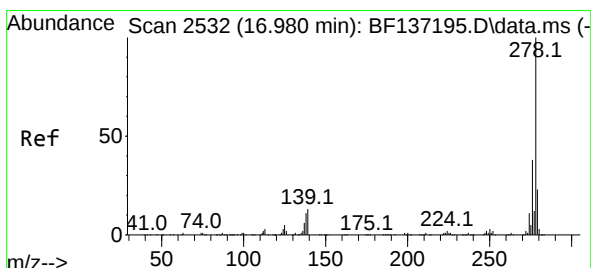
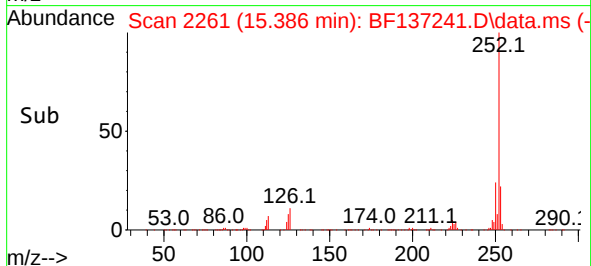
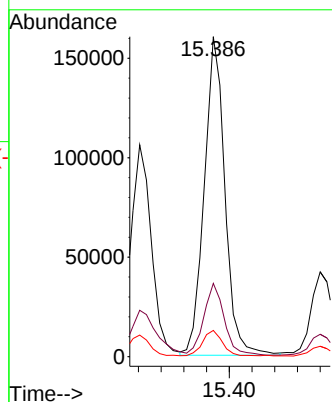
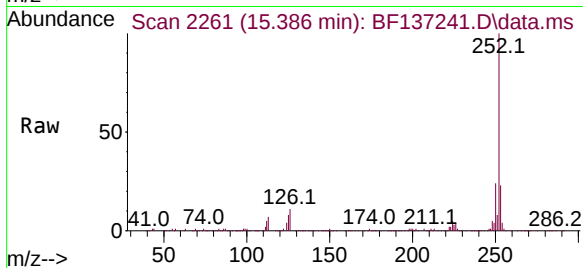
Tgt Ion:252 Resp: 202951

Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

125 8.2 6.5 9.7



#91

Dibenzo(a,h)anthracene

Concen: 2.095 ng

RT: 17.127 min Scan# 2557

Delta R.T. 0.147 min

Lab File: BF137241.D

Acq: 01 Feb 2024 19:54

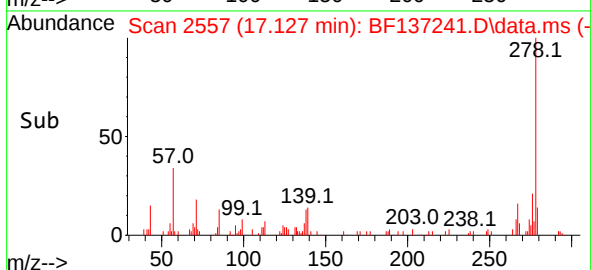
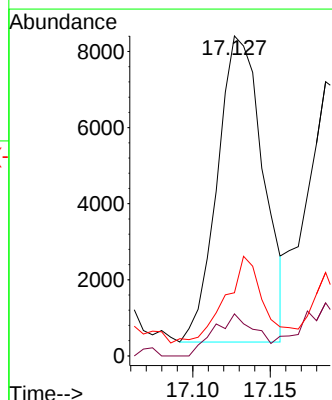
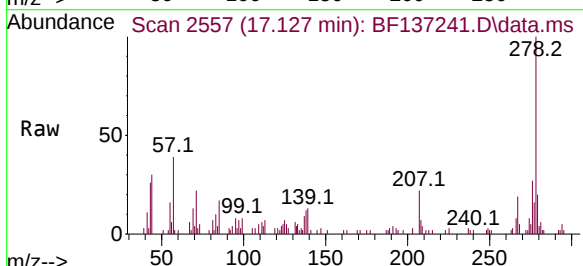
Tgt Ion:278 Resp: 16592

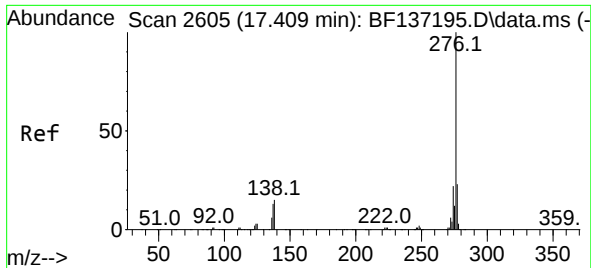
Ion Ratio Lower Upper

278 100

139 13.1 10.0 15.0

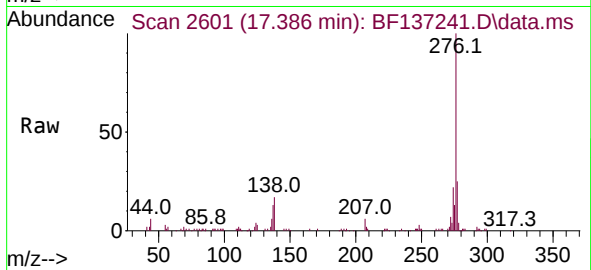
279 19.7 18.5 27.7





#92
 Benzo(g,h,i)perylene
 Concen: 11.000 ng
 RT: 17.386 min Scan# 20
 Delta R.T. -0.024 min
 Lab File: BF137241.D
 Acq: 01 Feb 2024 19:54

Instrument :
 BNA_F
 ClientSampleId :
 COMP-1



Tgt Ion:	276	Resp:	85504
Ion Ratio	Lower	Upper	
276	100		
277	25.5	18.4	27.6
138	17.1	11.8	17.8

