

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
 Data File : BF121804.D
 Acq On : 2 Oct 2020 20:20
 Operator : JU/CG
 Sample : L4213-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 B-15(13-14)

Manual Integrations
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 10/5/2020 10:27:52 AM

Quant Time: Oct 03 07:32:11 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	129309	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	472154	20.00	ng	-0.01
39) Acenaphthene-d10	9.80	164	214143	20.00	ng	-0.01
64) Phenanthrene-d10	11.29	188	333960	20.00	ng	0.00
76) Chrysene-d12	13.93	240	246015	20.00	ng	0.00
86) Perylene-d12	15.37	264	237654	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	523510	60.17	ng	0.00
7) Phenol-d6	6.40	99	785942	68.85	ng	-0.01
23) Nitrobenzene-d5	7.33	82	565994	64.36	ng	-0.01
42) 2,4,6-Tribromophenol	10.59	330	47372	17.80	ng	-0.02
45) 2-Fluorobiphenyl	9.12	172	928746	65.69	ng	-0.01
79) Terphenyl-d14	12.87	244	712100	58.64	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.07	128	395547	15.870	ng	99
37) 2-Methylnaphthalene	8.76	142	115522	7.073	ng	98
38) 1-Methylnaphthalene	8.86	142	76503	5.033	ng	100
46) 1,1'-Biphenyl	9.22	154	43452	2.535	ng	97
49) Acenaphthylene	9.66	152	105623	5.089	ng	98
50) Dimethylphthalate	9.52	163	127620	8.223	ng	99
52) Acenaphthene	9.83	154	210046	16.021	ng	99
55) Dibenzofuran	10.00	168	265879	14.401	ng	97
58) Fluorene	10.35	166	355513	25.180	ng	99
71) Phenanthrene	11.32	178	2211225	121.526	ng	98
72) Anthracene	11.36	178	788238	41.979	ng	99
73) Carbazole	11.52	167	283926	16.756	ng	99
75) Fluoranthene	12.51	202	2519219	129.699	ng	98
78) Pyrene	12.74	202	2148713	119.542	ng	98
81) Benzo(a)anthracene	13.92	228	1415611	90.953	ng	97
83) Chrysene	13.96	228	1066114	67.644	ng	96
87) Indeno(1,2,3-cd)pyrene	16.79	276	544340	35.171	ng	94
88) Benzo(b)fluoranthene	14.96	252	1297071m	81.641	ng	
89) Benzo(k)fluoranthene	14.99	252	491946m	33.814	ng	
90) Benzo(a)pyrene	15.32	252	955724	70.769	ng	96
91) Dibenzo(a,h)anthracene	16.79	278	146216m	11.349	ng	
92) Benzo(g,h,i)perylene	17.22	276	464073	36.645	ng	99

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

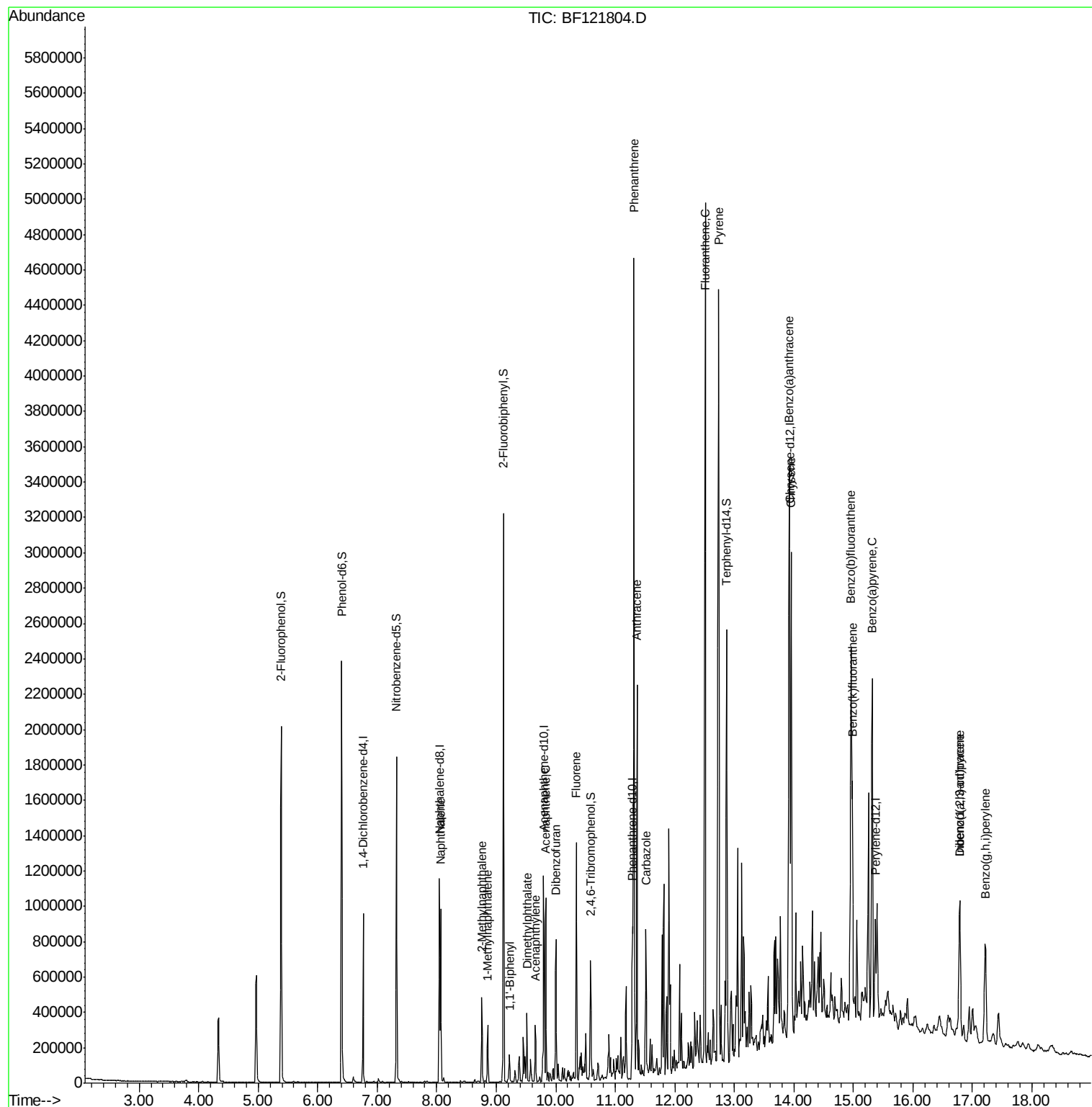
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
Data File : BF121804.D
Acq On : 2 Oct 2020 20:20
Operator : JU/CG
Sample : L4213-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

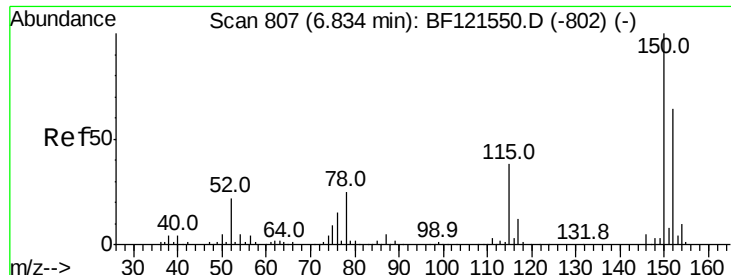
Instrument :
BNA_F
ClientSampleId :
B-15(13-14)

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Quant Time: Oct 03 07:32:11 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 01 14:29:14 2020
Response via : Initial Calibration





#1

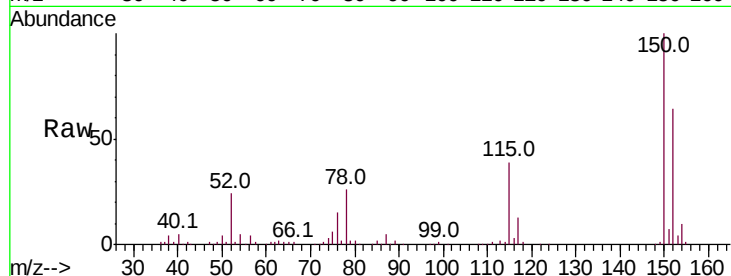
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.76 min Scan# 795
Delta R.T. -0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Instrument :
BNA_F
ClientSampleId :
B-15(13-14)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	125.3	187.9
115	60.5	51.9	77.9

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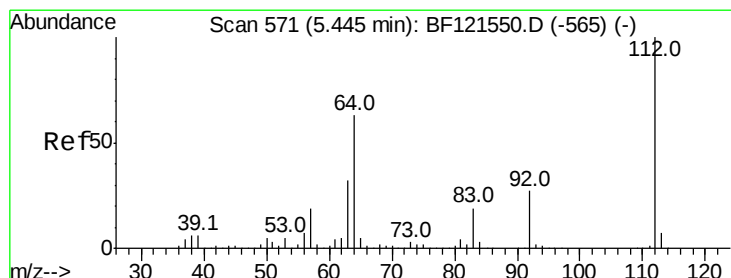
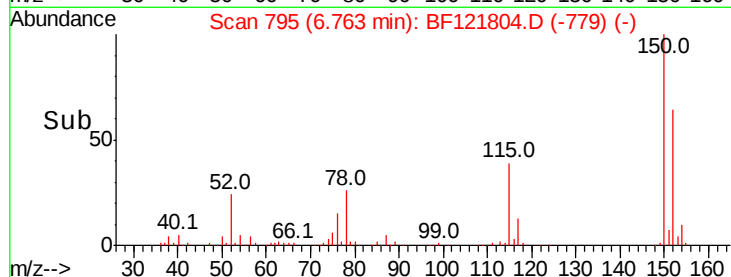
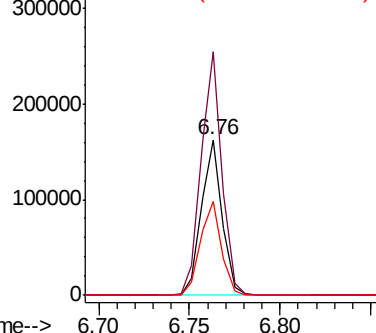


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

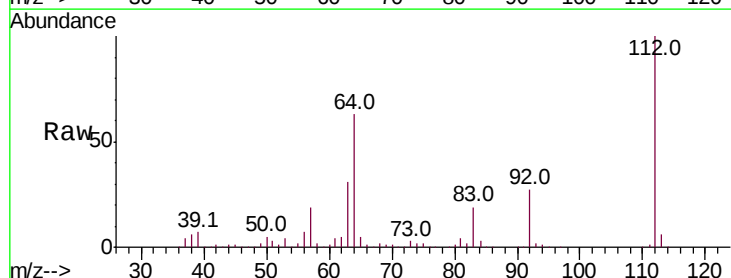
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 60.166 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.00 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.1	50.4	75.6
63	31.2	25.8	38.6

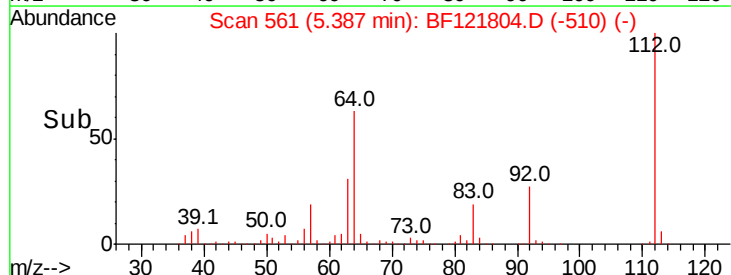
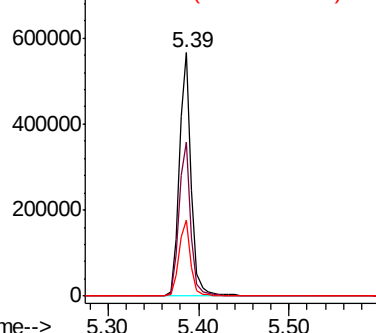


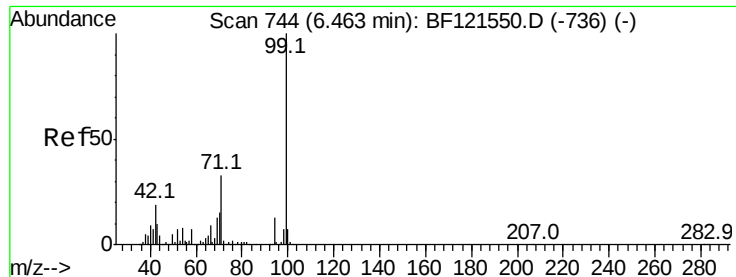
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 68.850 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Instrument :

BNA_F

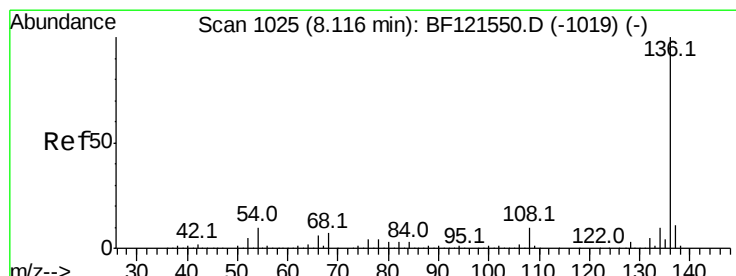
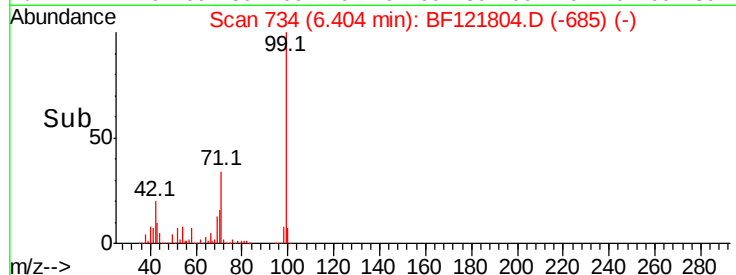
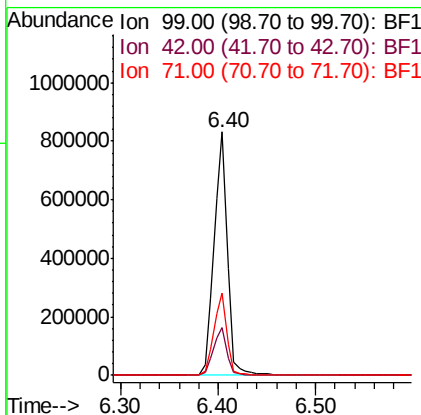
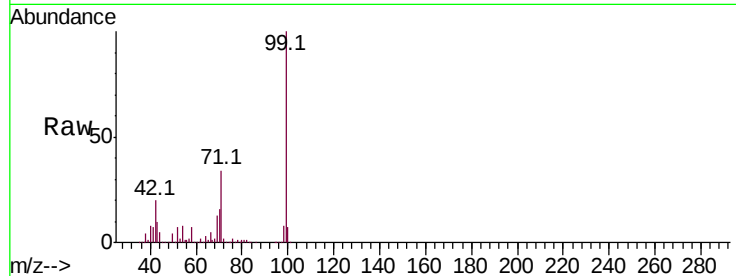
ClientSampled :

B-15(13-14)

Tot Ion:	99	Resp:	785942
Ion Ratio	Lower	Upper	
99	100		
42	19.8	15.9	23.9
71	33.9	27.1	40.7

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#21

Naphthalene-d8

Concen: 20.000 ng

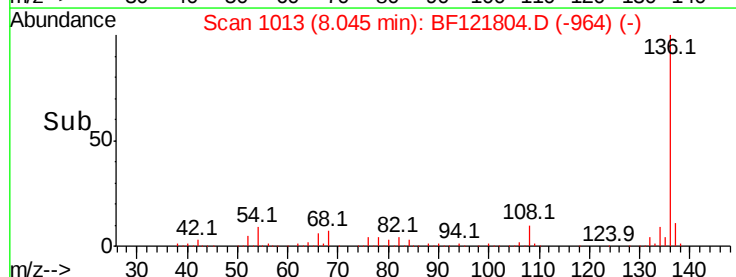
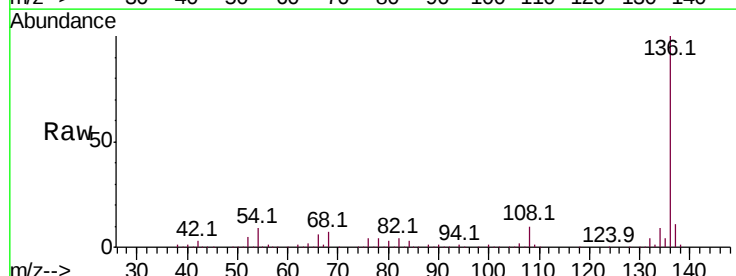
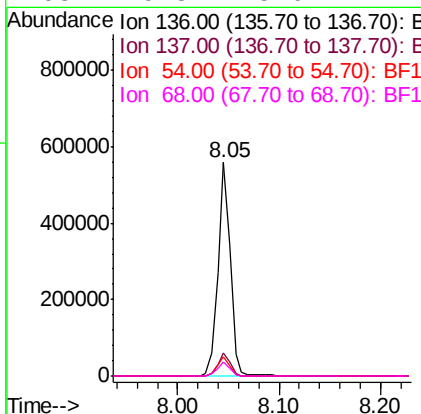
RT: 8.05 min Scan# 1013

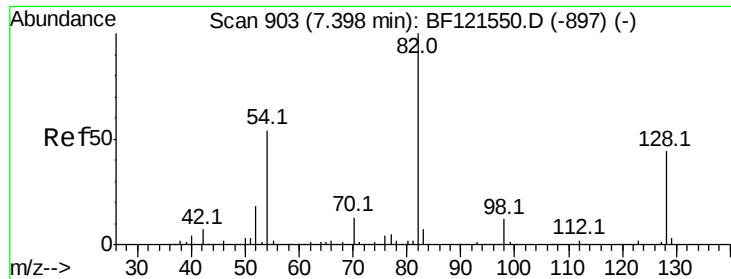
Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Tgt Ion:	136	Resp:	472154
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.6	13.0
54	9.2	7.1	10.7
68	6.8	5.0	7.4





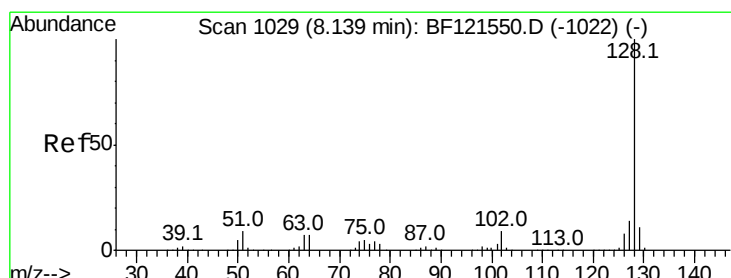
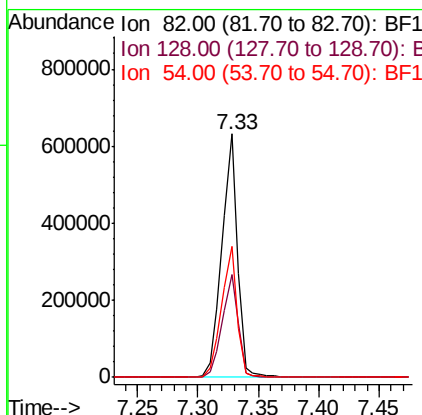
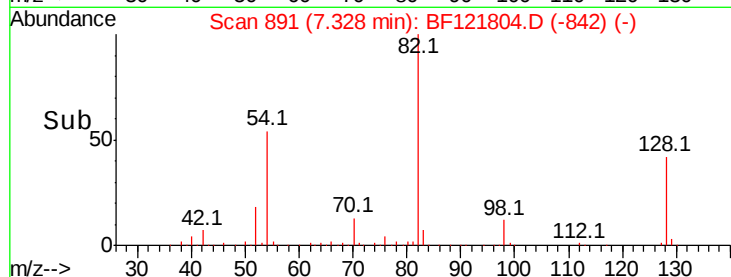
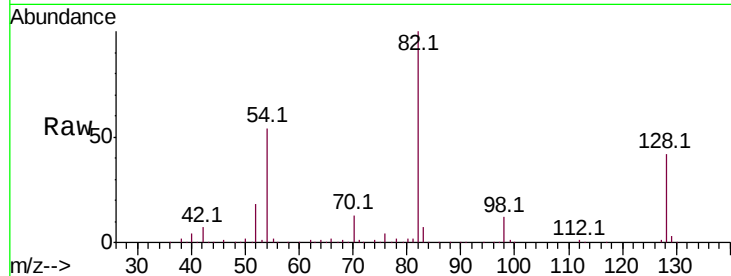
#23
Nitrobenzene-d5
Concen: 64.363 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Instrument :
BNA_F
ClientSampleId :
B-15(13-14)

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.0	35.0	52.4
54	53.6	43.9	65.9

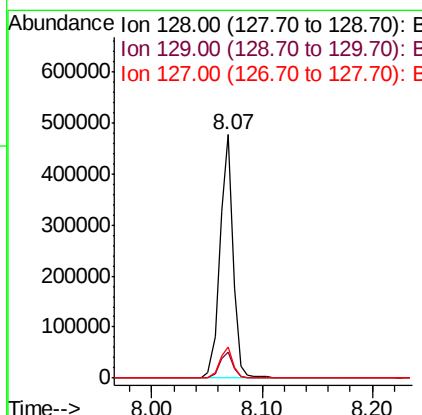
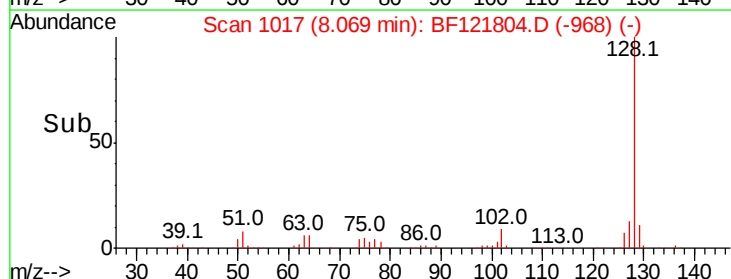
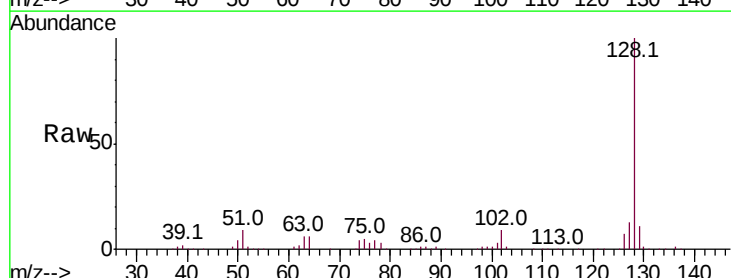
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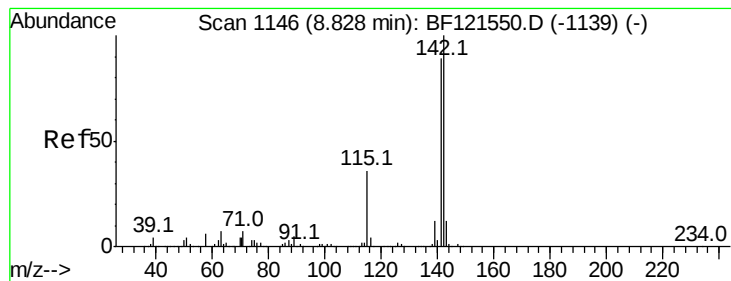
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#31
Naphthalene
Concen: 15.870 ng
RT: 8.07 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.0	10.8	16.2





#37

2-Methylnaphthalene

Concen: 7.073 ng

RT: 8.76 min Scan# 1134

Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Instrument :

BNA_F

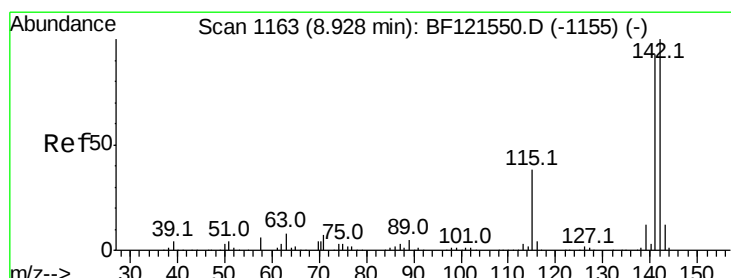
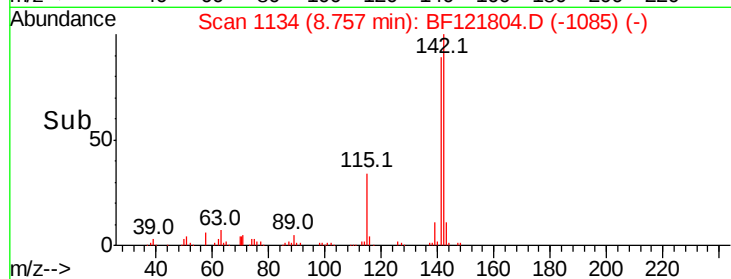
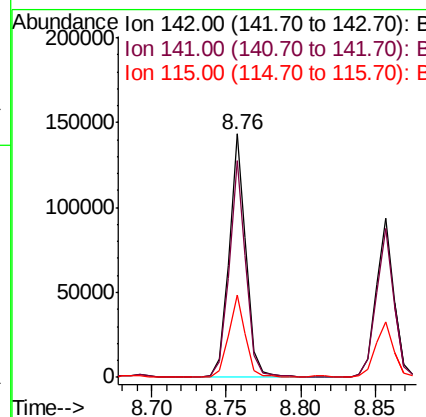
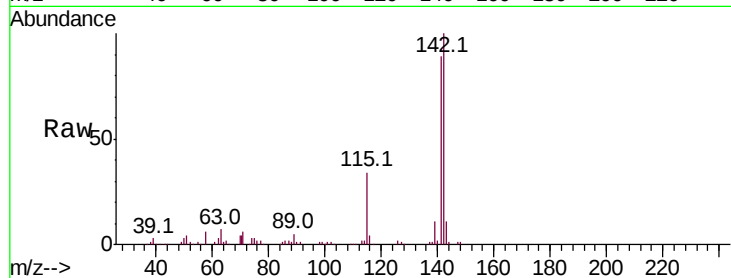
ClientSampleId :

B-15(13-14)

Tot Ion:	142	Resp:	115522
Ion Ratio	Lower	Upper	
142	100		
141	88.8	70.2	105.4
115	33.8	28.6	43.0

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#38

1-Methylnaphthalene

Concen: 5.033 ng

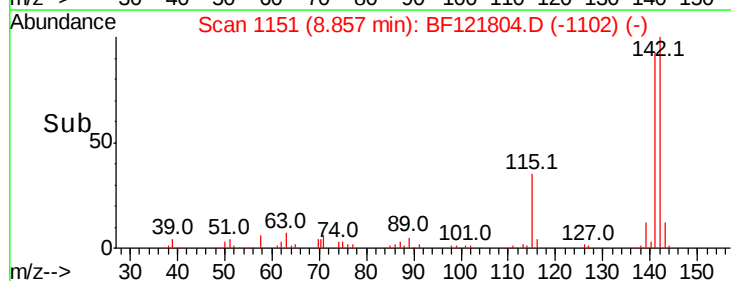
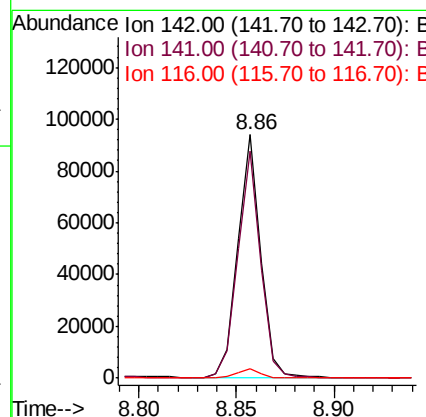
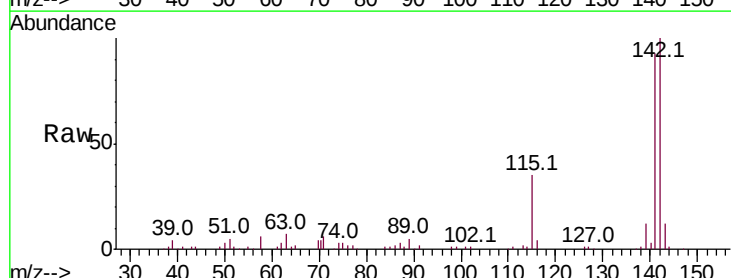
RT: 8.86 min Scan# 1151

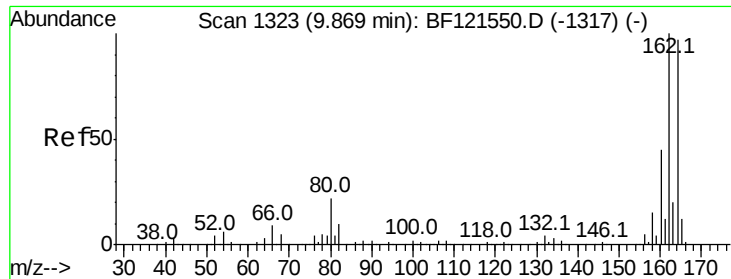
Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Tgt Ion:	142	Resp:	76503
Ion Ratio	Lower	Upper	
142	100		
141	93.4	74.5	111.7
116	3.7	3.2	4.8





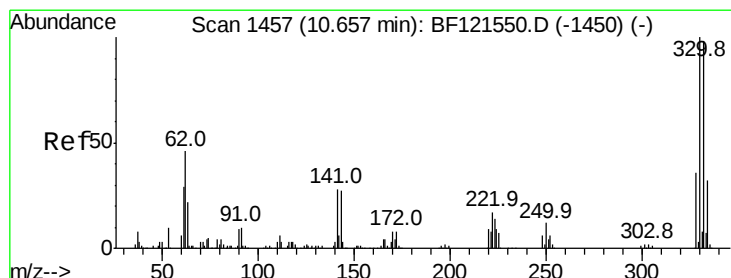
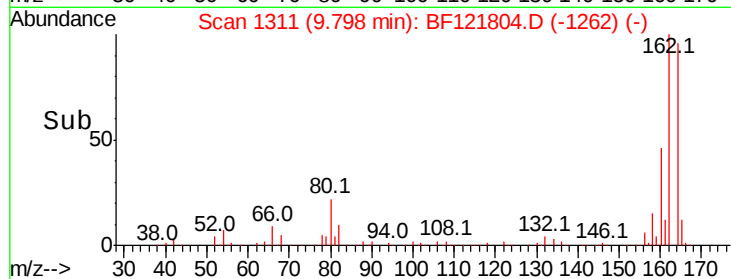
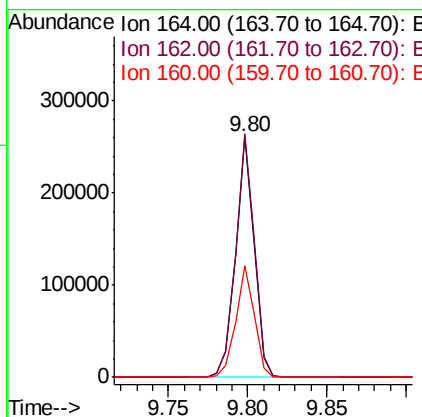
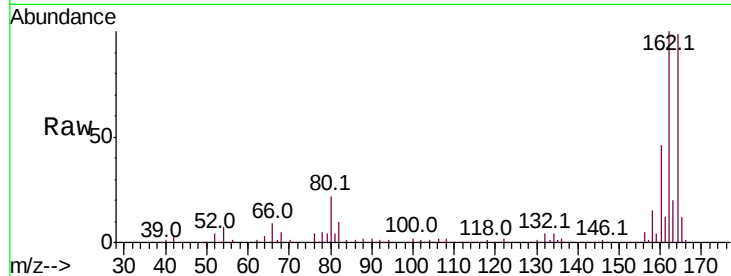
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.80 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Instrument :
BNA_F
ClientSampleId :
B-15(13-14)

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.0	83.2	124.8
160	46.3	37.5	56.3

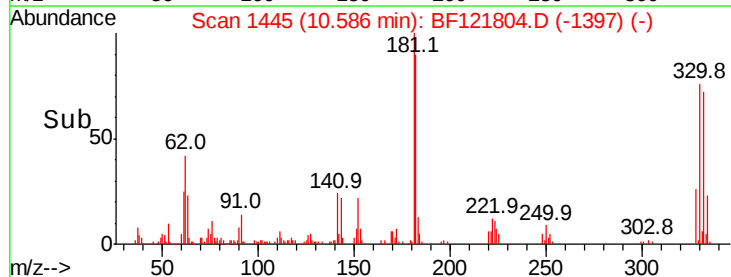
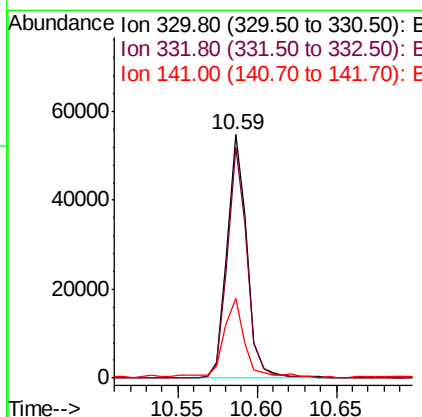
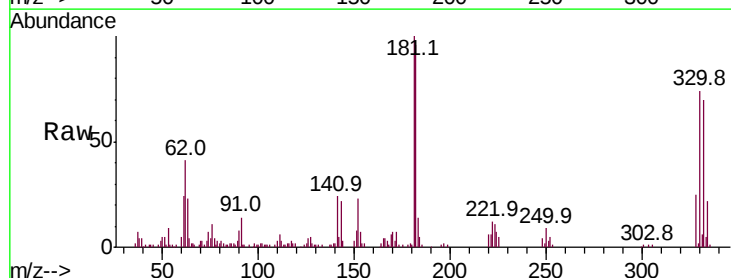
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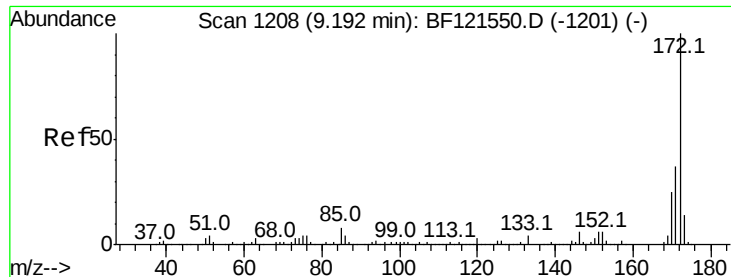
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#42
2,4,6-Tribromophenol
Concen: 17.799 ng
RT: 10.59 min Scan# 1445
Delta R.T. -0.02 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.0	77.3	115.9
141	38.3	22.3	33.5#





#45

2-Fluorobiphenyl

Concen: 65.686 ng

RT: 9.12 min Scan# 1196

Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Instrument :

BNA_F

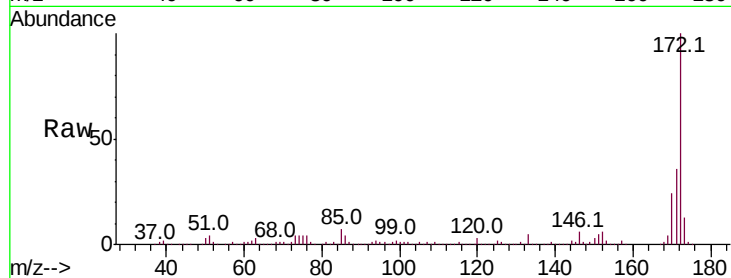
ClientSampleId :

B-15(13-14)

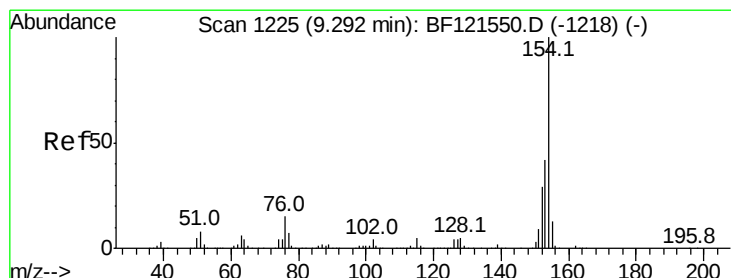
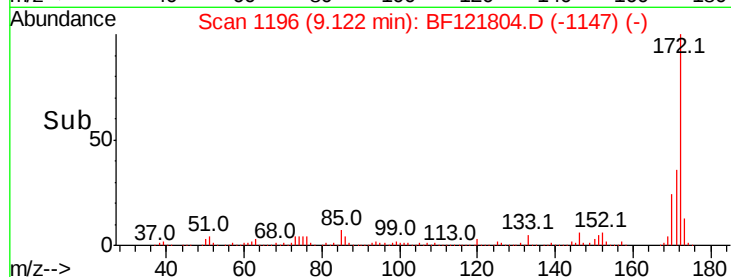
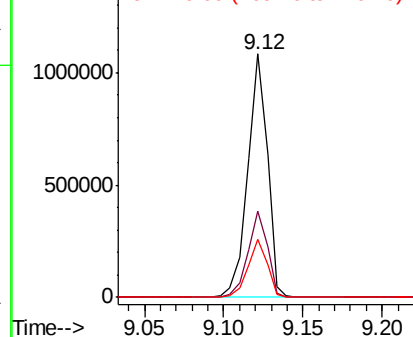
Tot Ion:	172	Resp:	928746
Ion Ratio	Lower	Upper	
172	100		
171	35.6	29.1	43.7
170	23.7	19.8	29.6

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Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



#46

1,1'-Biphenyl

Concen: 2.535 ng

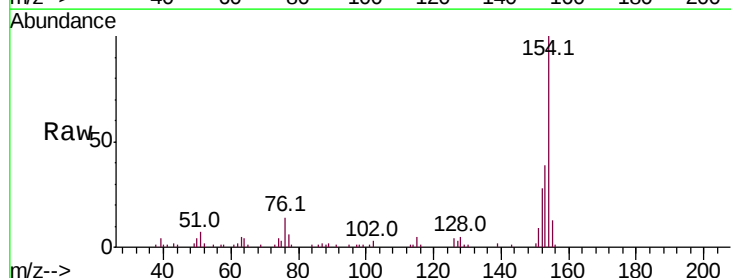
RT: 9.22 min Scan# 1213

Delta R.T. -0.01 min

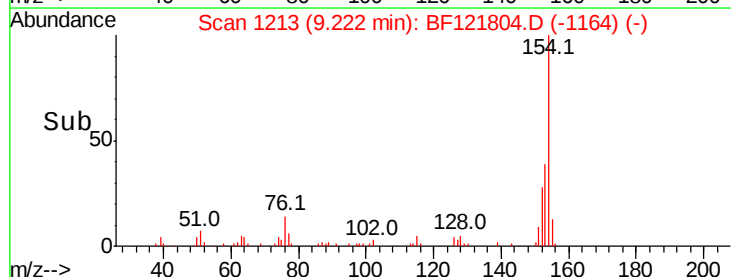
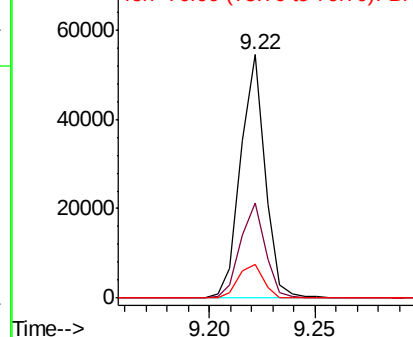
Lab File: BF121804.D

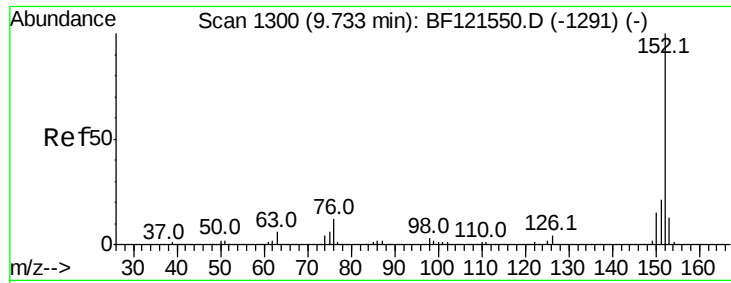
Acq: 2 Oct 2020 20:20

Tgt Ion:	154	Resp:	43452
Ion Ratio	Lower	Upper	
154	100		
153	39.3	21.3	61.3
76	14.0	0.0	34.7



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





#49

Acenaphthylene

Concen: 5.089 ng

RT: 9.66 min Scan# 1287

Delta R.T. -0.02 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Instrument :

BNA_F

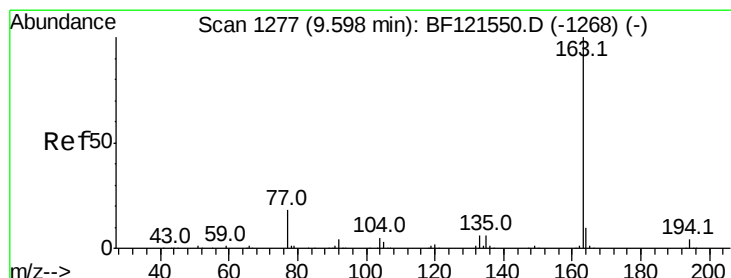
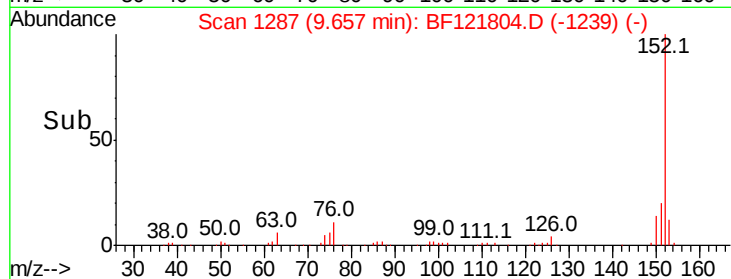
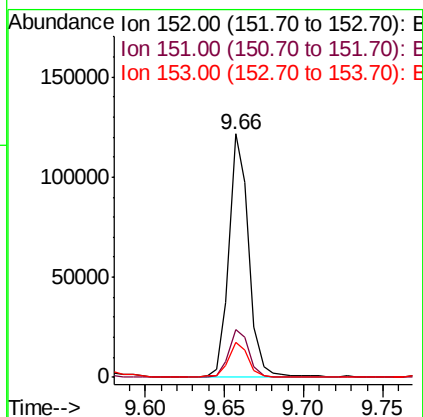
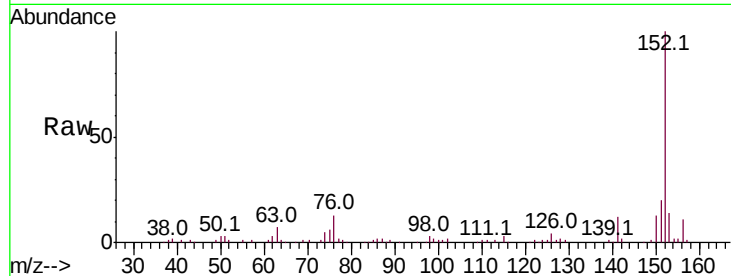
ClientSampleId :

B-15(13-14)

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.4	24.6
153	14.5	10.6	15.8

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#50

Dimethylphthalate

Concen: 8.223 ng

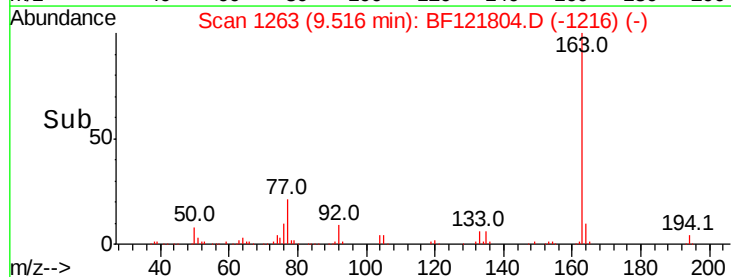
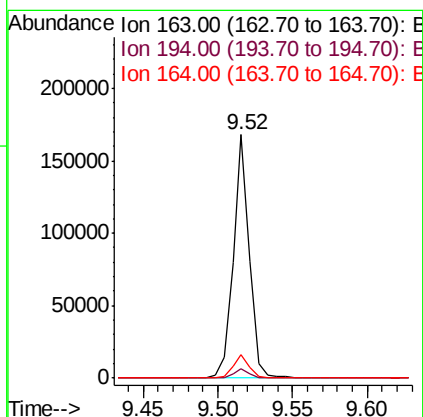
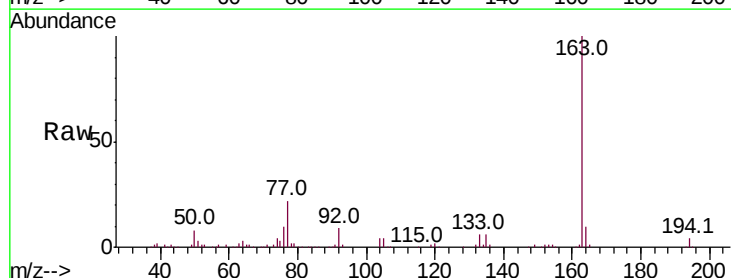
RT: 9.52 min Scan# 1263

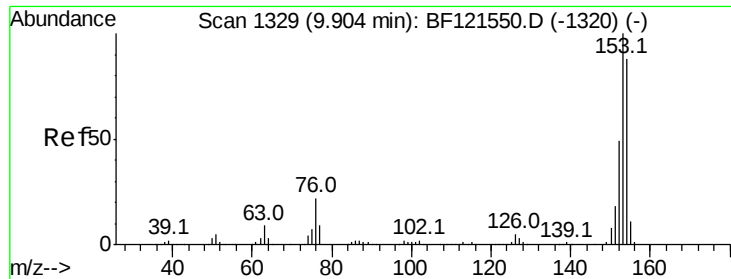
Delta R.T. -0.02 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	9.7	8.2	12.4





#52

Acenaphthene

Concen: 16.021 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Instrument :

BNA_F

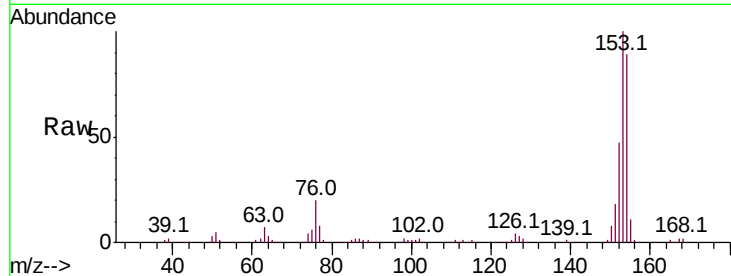
ClientSampleId :

B-15(13-14)

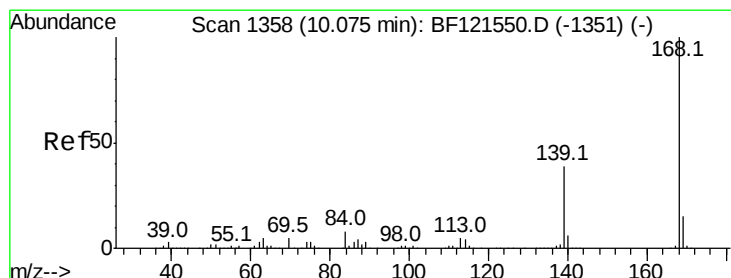
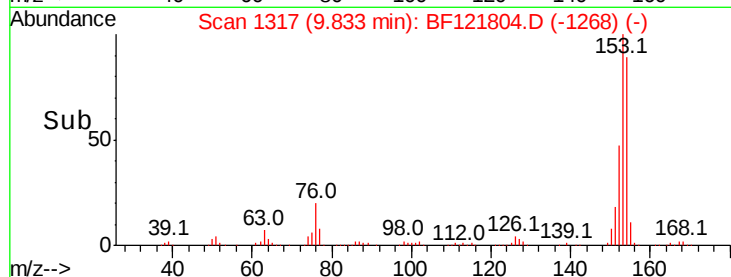
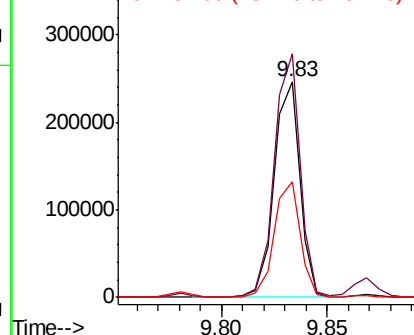
Tot Ion:	154	Resp:	210046
Ion Ratio	Lower	Upper	
154	100		
153	113.0	89.8	134.8
152	53.6	43.2	64.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 14.401 ng

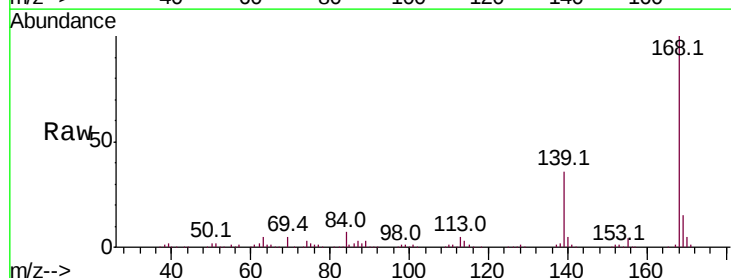
RT: 10.00 min Scan# 1346

Delta R.T. -0.01 min

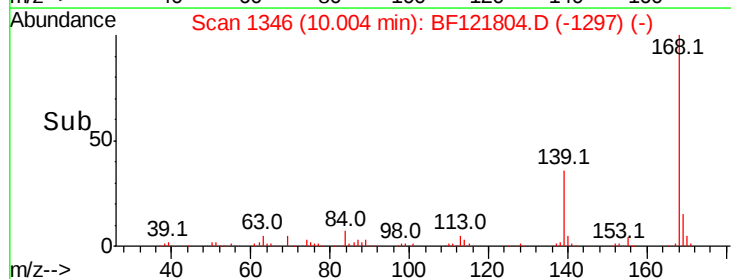
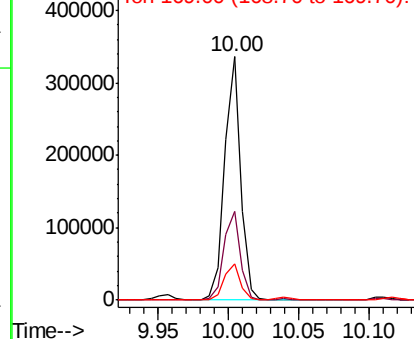
Lab File: BF121804.D

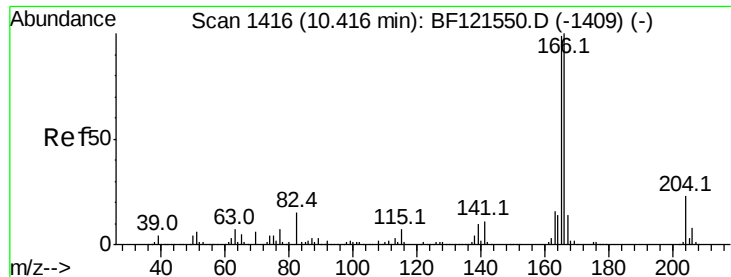
Acq: 2 Oct 2020 20:20

Tgt Ion:	168	Resp:	265879
Ion Ratio	Lower	Upper	
168	100		
139	36.4	31.0	46.6
169	14.7	11.3	16.9



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





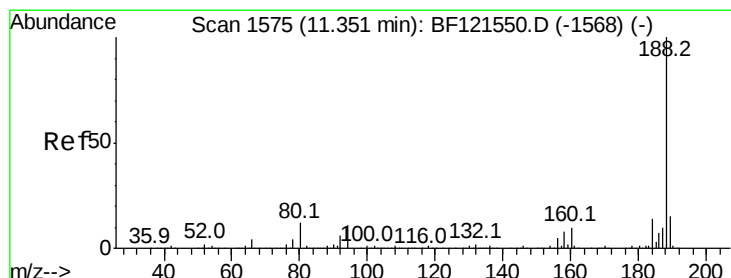
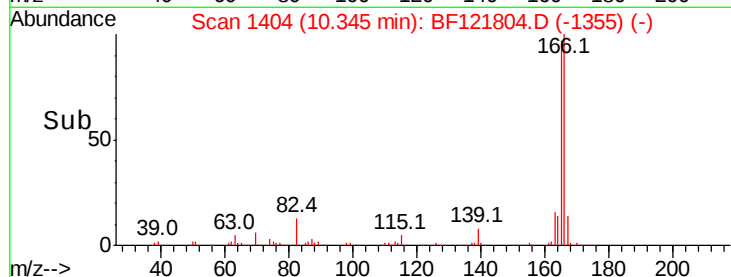
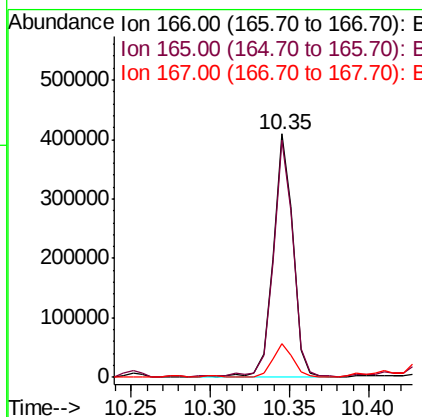
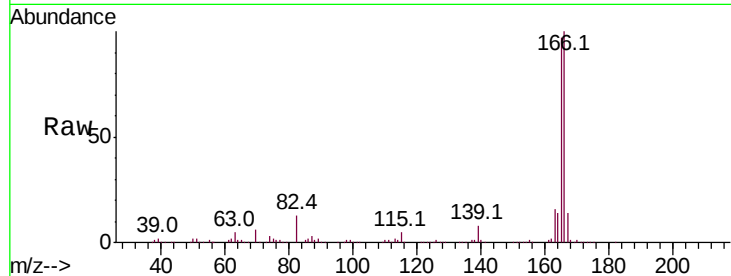
#58
Fluorene
 Concen: 25.180 ng
 RT: 10.35 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Instrument :
 BNA_F
 ClientSampled :
 B-15(13-14)

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	97.4	79.1	118.7	
167	13.9	11.0	16.6	

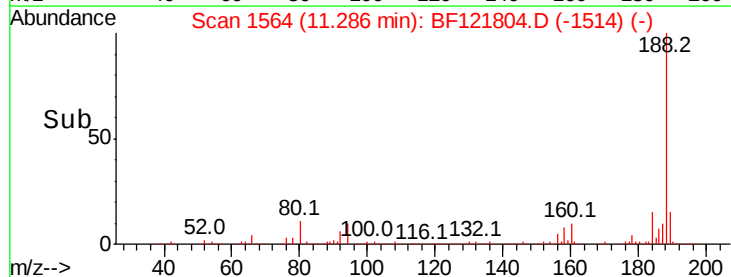
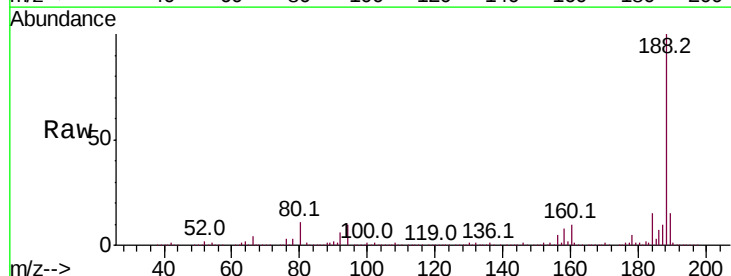
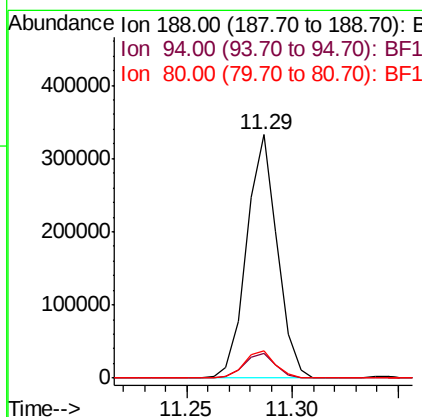
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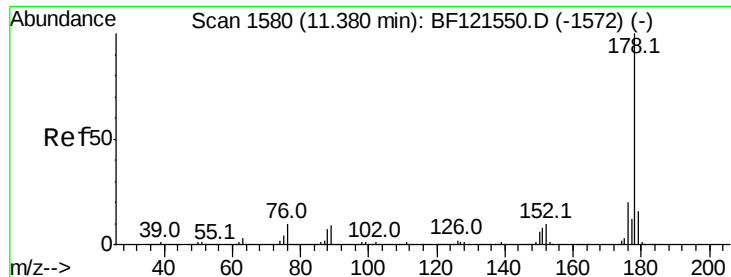
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#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.29 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.1	8.3	12.5	
80	11.2	9.1	13.7	





#71

Phenanthrene

Concen: 121.526 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Instrument :

BNA_F

ClientSampled :

B-15(13-14)

Tot Ion:178 Resp: 2211225

Ion Ratio Lower Upper

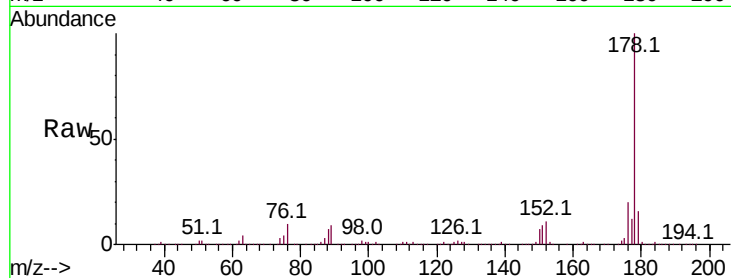
178 100

176 20.4 15.9 23.9

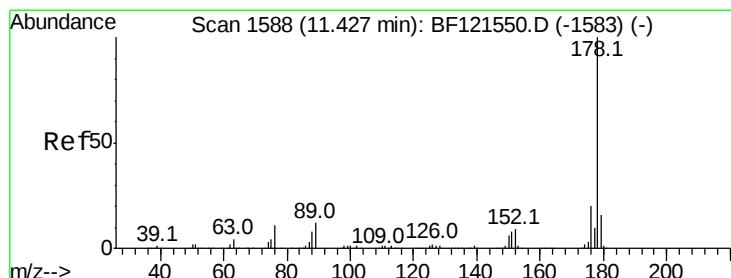
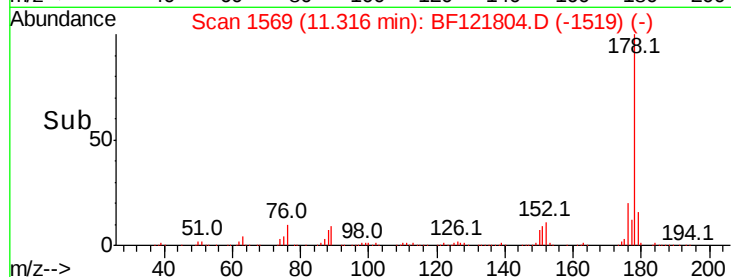
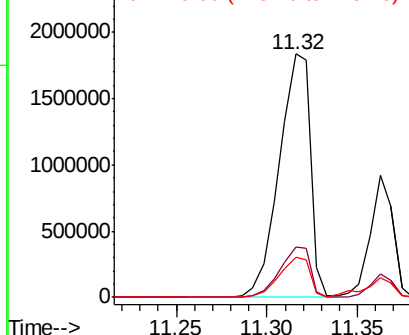
179 16.3 12.2 18.4

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Abundance Ion 178.00 (177.70 to 178.70): E
2500000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 41.979 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF121804.D

Acq: 2 Oct 2020 20:20

Tgt Ion:178 Resp: 788238

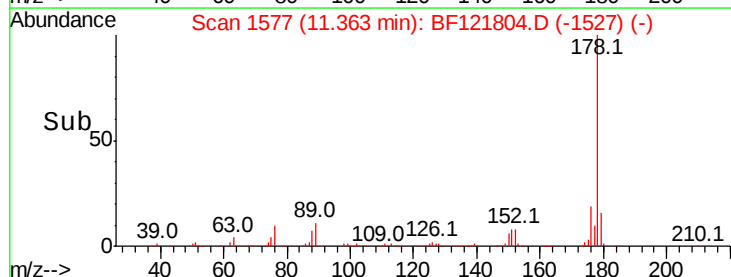
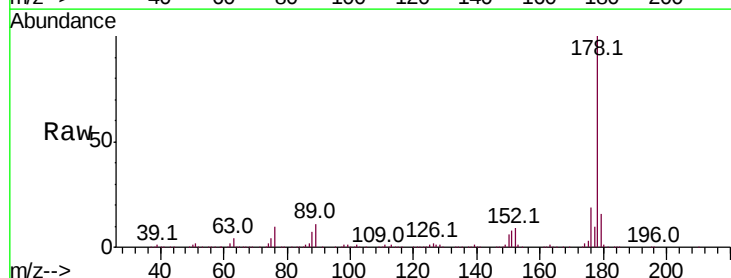
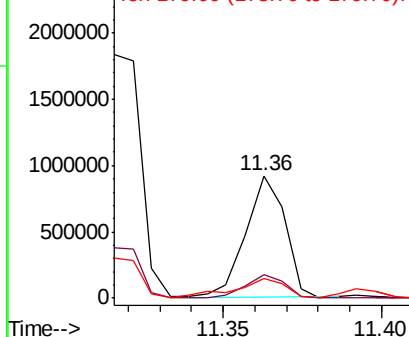
Ion Ratio Lower Upper

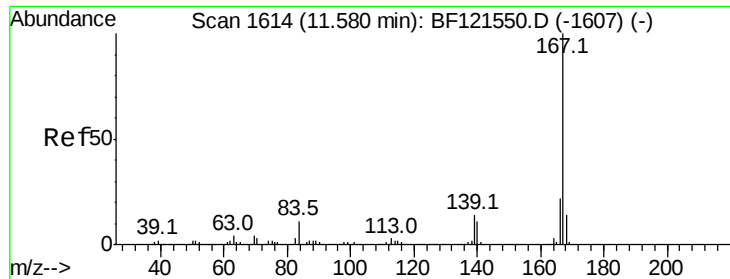
178 100

176 19.2 15.7 23.5

179 15.8 12.7 19.1

Abundance Ion 178.00 (177.70 to 178.70): E
2500000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





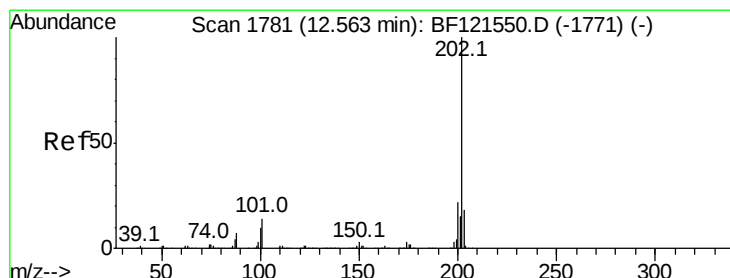
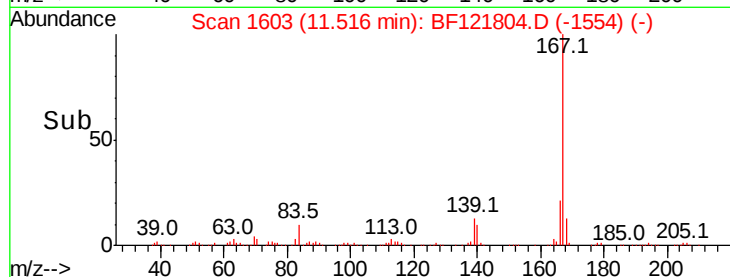
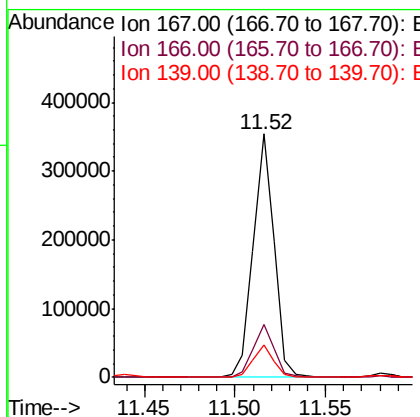
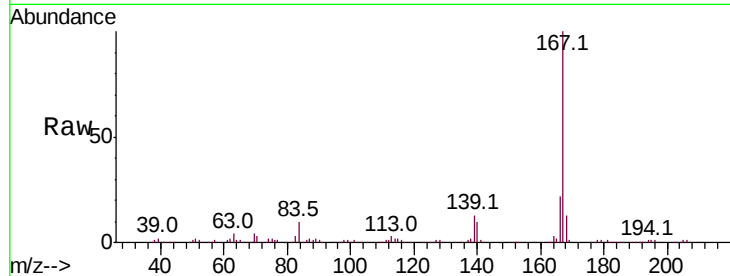
#73
 Carbazole
 Concen: 16.756 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. -0.01 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Instrument :
 BNA_F
 ClientSampleId :
 B-15(13-14)

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.8	26.6
139	13.2	10.8	16.2

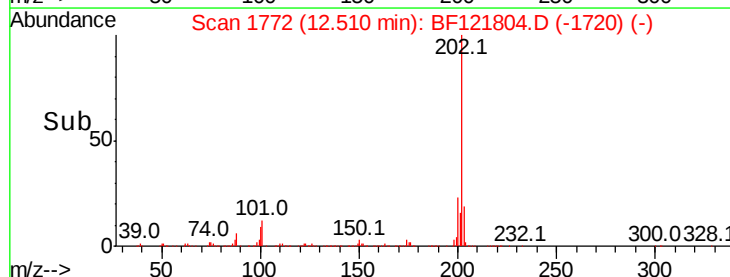
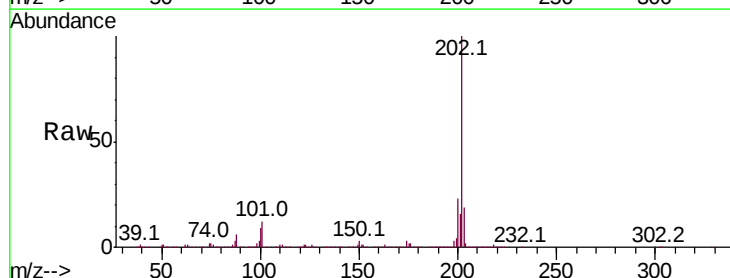
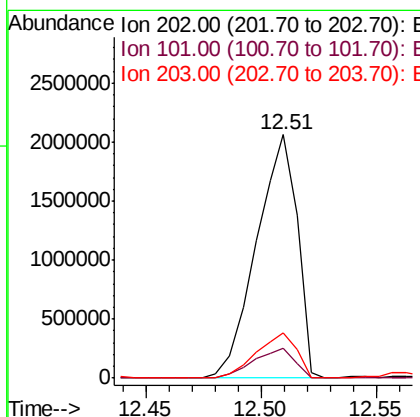
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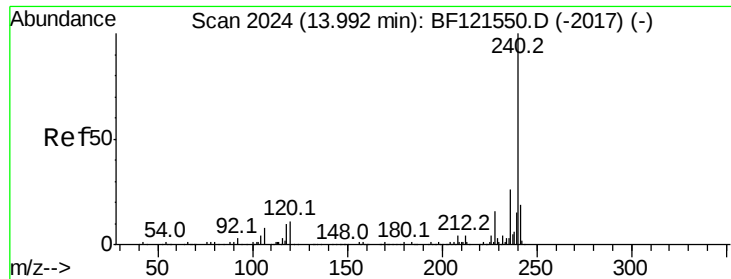
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#75
 Fluoranthene
 Concen: 129.699 ng
 RT: 12.51 min Scan# 1772
 Delta R.T. 0.01 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	33.4
203	18.7	0.0	37.9





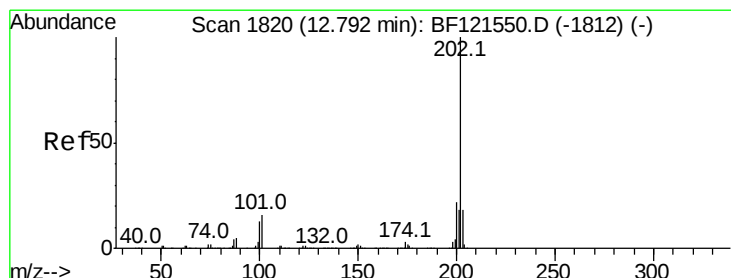
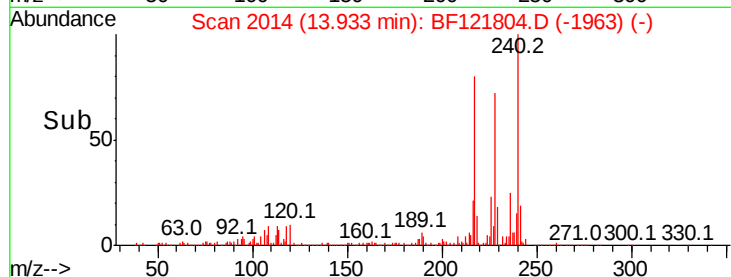
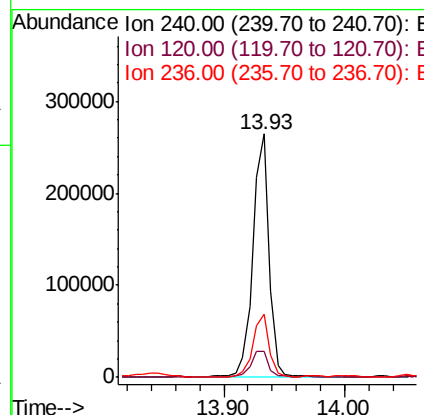
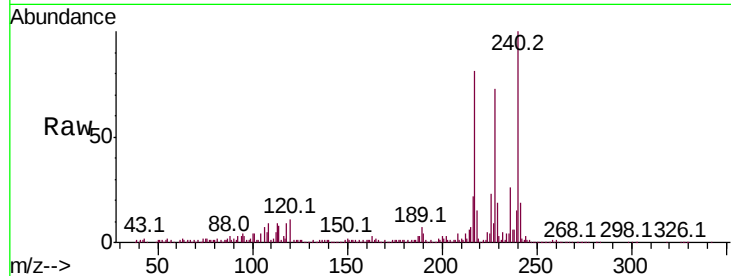
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.93 min Scan# 2014
Delta R.T. 0.00 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Instrument :
BNA_F
ClientSampleId :
B-15(13-14)

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.2	13.8
236	25.7	20.9	31.3

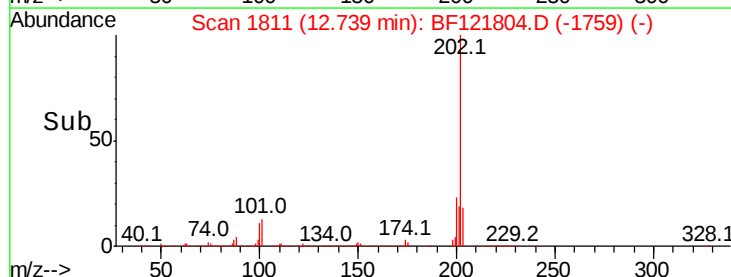
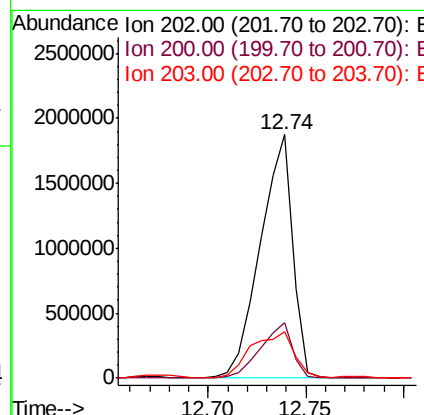
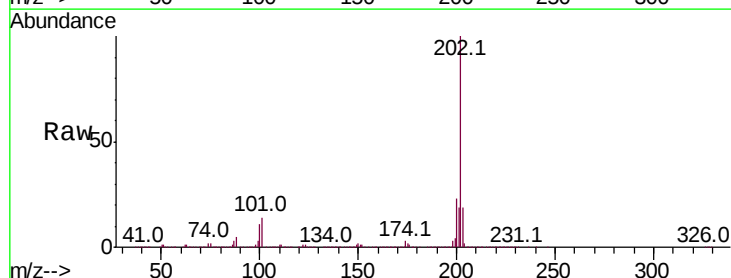
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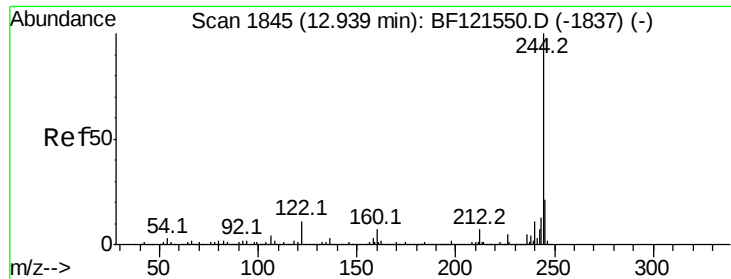
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#78
Pyrene
Concen: 119.542 ng
RT: 12.74 min Scan# 1811
Delta R.T. 0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.4	26.2
203	18.9	14.6	21.8





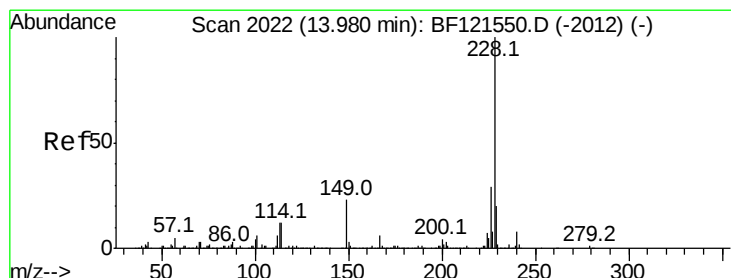
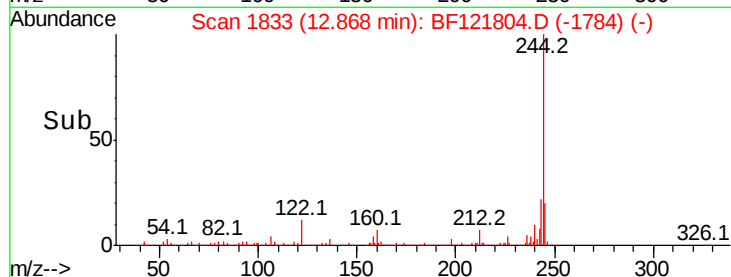
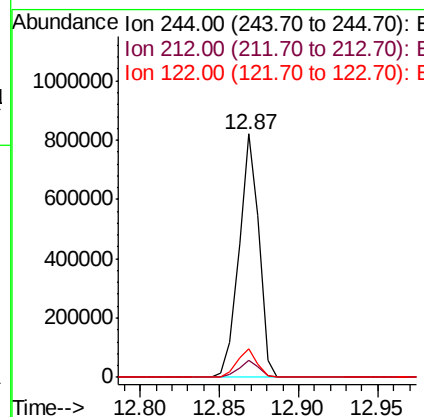
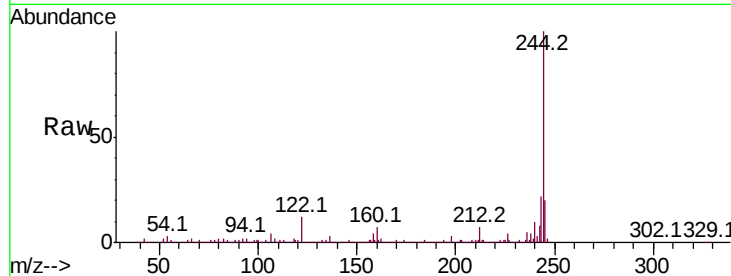
#79
 Terphenyl-d14
 Concen: 58.641 ng
 RT: 12.87 min Scan# 1833
 Delta R.T. -0.01 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Instrument :
 BNA_F
 ClientSampled :
 B-15(13-14)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.2
122	11.8	8.1	12.1

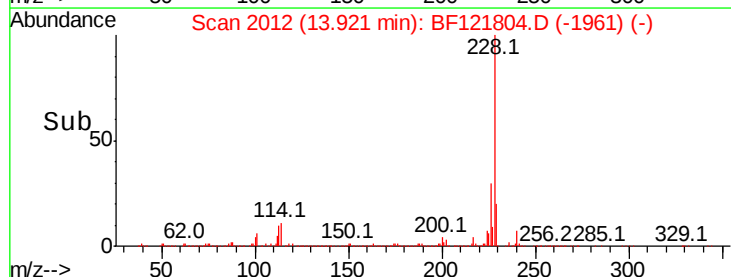
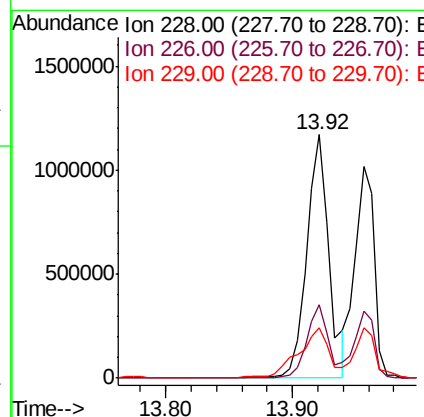
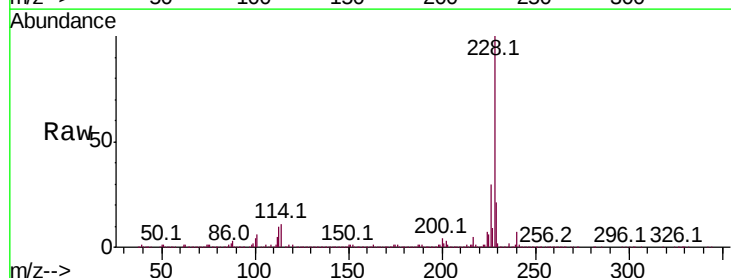
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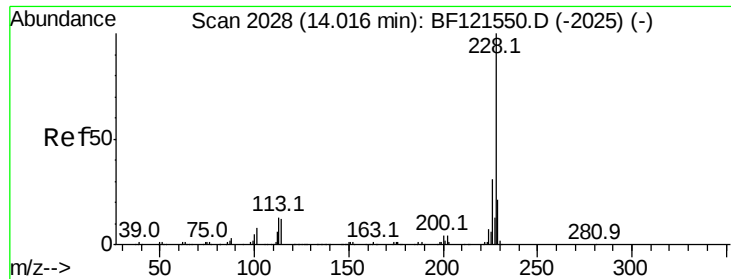
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#81
 Benzo(a)anthracene
 Concen: 90.953 ng
 RT: 13.92 min Scan# 2012
 Delta R.T. 0.00 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.3	33.5
229	20.9	16.2	24.4





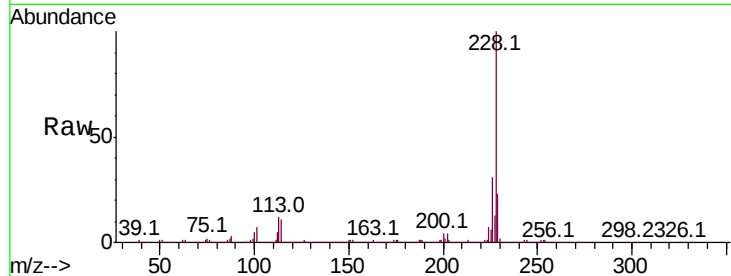
#83
Chrysene
Concen: 67.644 ng
RT: 13.96 min Scan# 2018
Delta R.T. 0.00 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Instrument :
BNA_F
ClientSampleId :
B-15(13-14)

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.6	37.0
229	23.5	15.9	23.9

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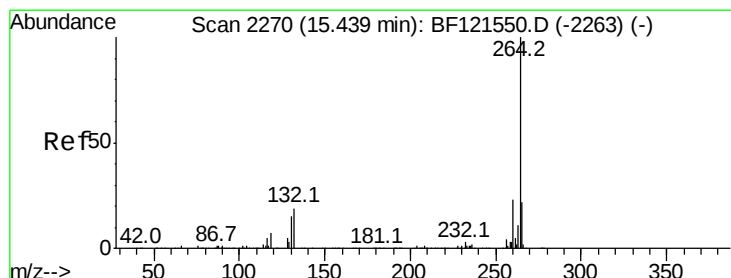
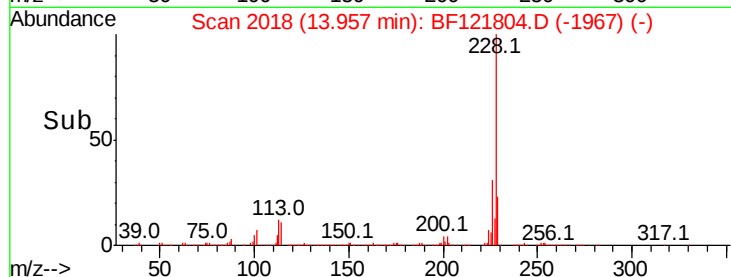
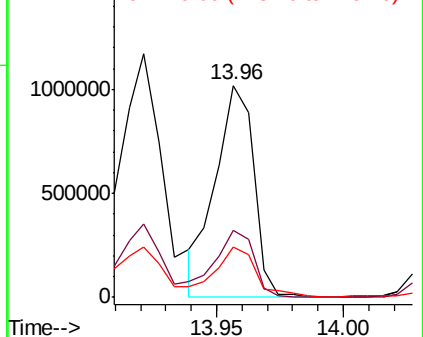


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

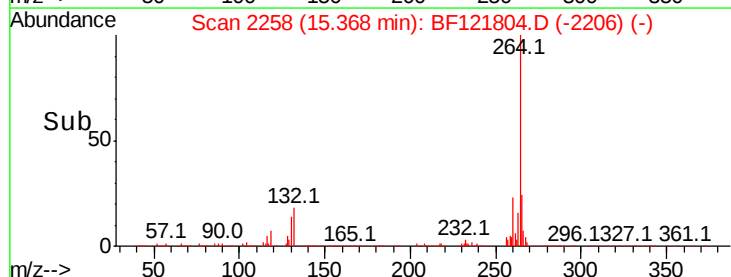
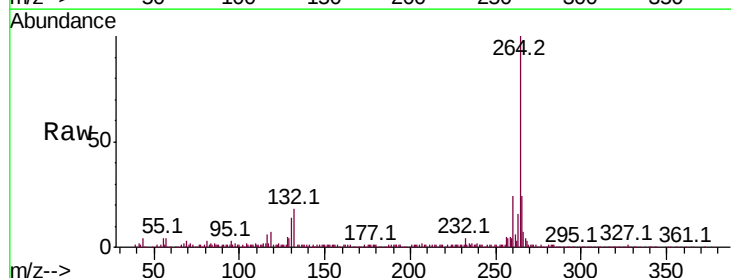
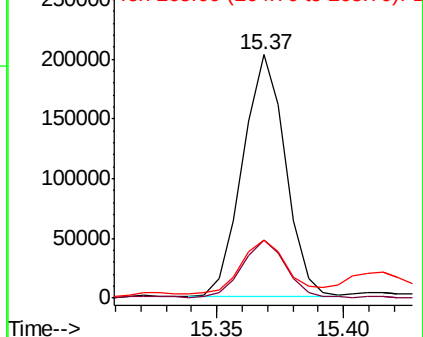
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	24.0	17.3	25.9

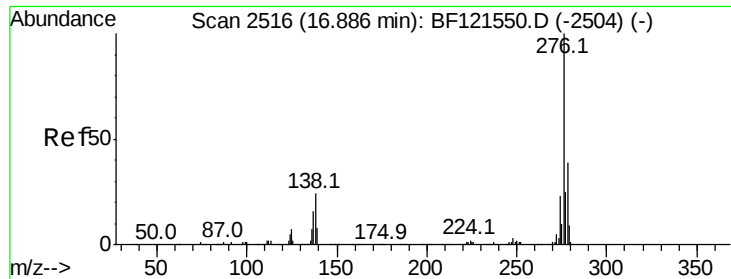
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





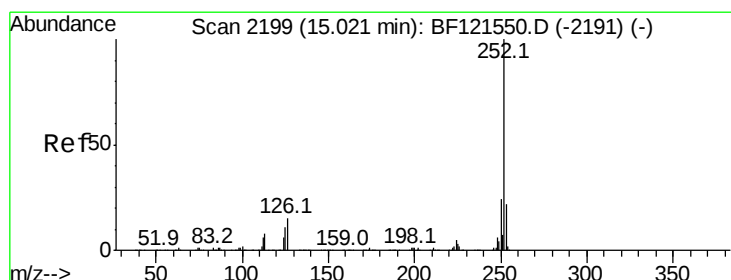
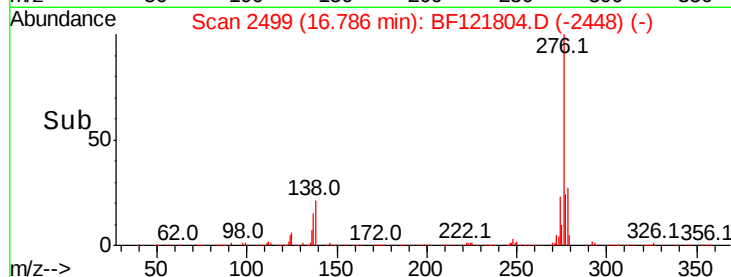
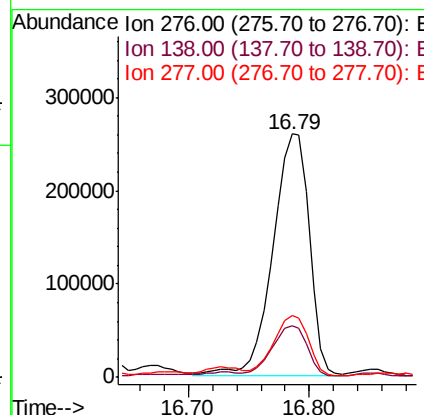
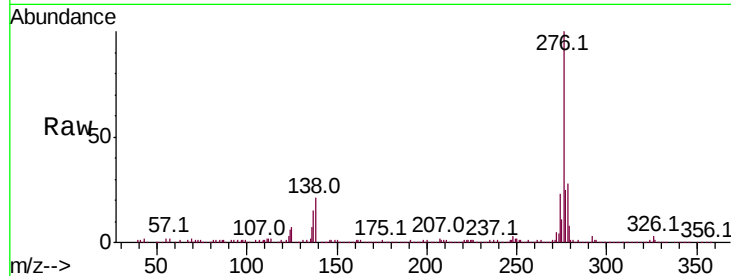
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 35.171 ng
 RT: 16.79 min Scan# 2499
 Delta R.T. 0.00 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Instrument :
 BNA_F
 ClientSampleId :
 B-15(13-14)

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.4	19.9	29.9
277	24.0	20.4	30.6

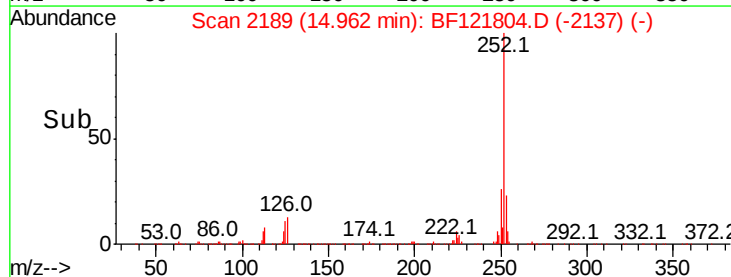
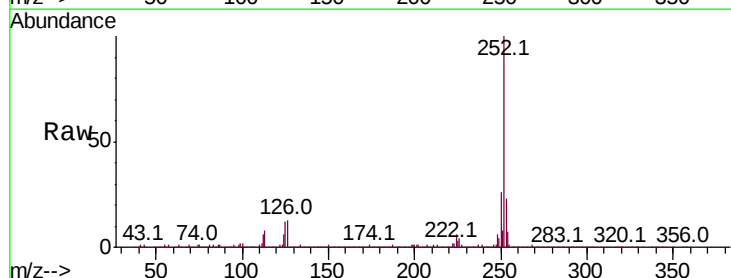
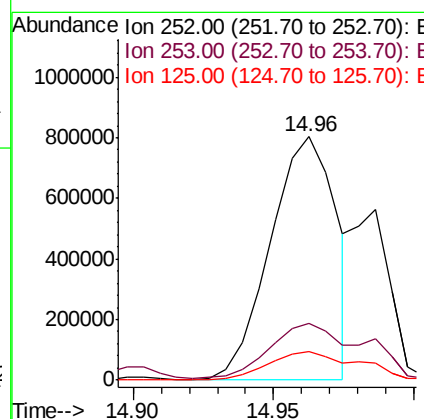
Manual Integrations
 APPROVED

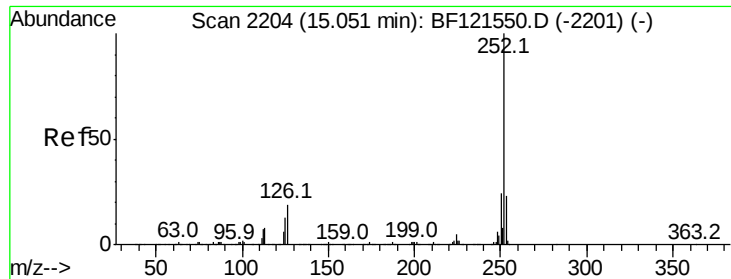
mohammad
 10/5/2020 10:27:52 AM



#88
 Benzo(b)fluoranthene
 Concen: 81.641 ng m
 RT: 14.96 min Scan# 2189
 Delta R.T. 0.01 min
 Lab File: BF121804.D
 Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	11.6	8.0	12.0





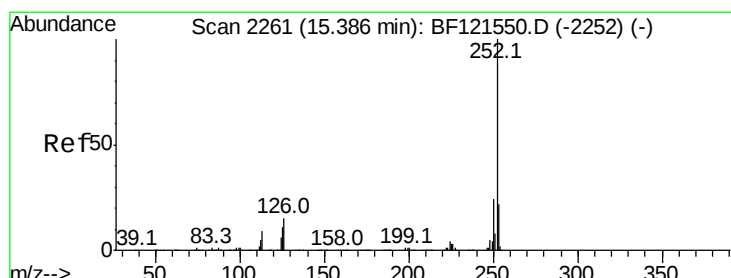
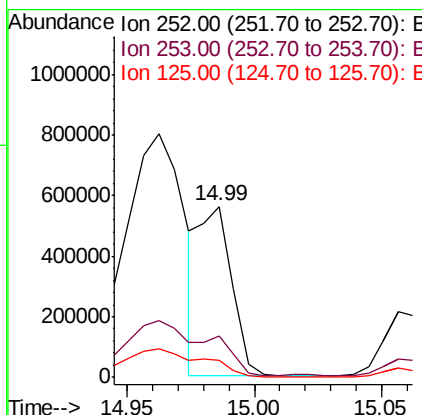
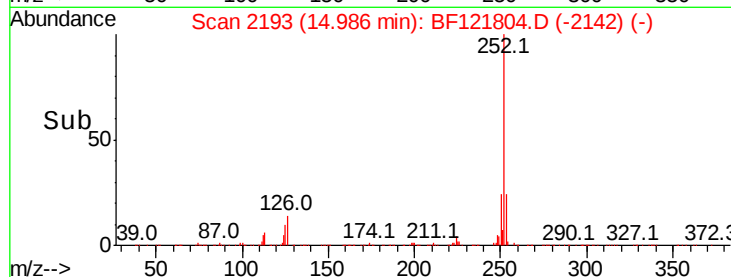
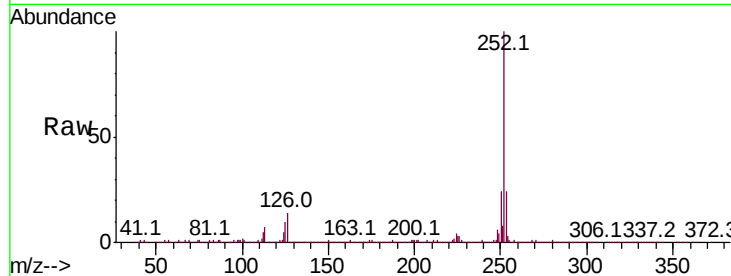
#89
Benzo(k)fluoranthene
Concen: 33.814 ng m
RT: 14.99 min Scan# 2193
Delta R.T. 0.00 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Instrument :
BNA_F
ClientSampleId :
B-15(13-14)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.8	26.6
125	10.1	7.7	11.5

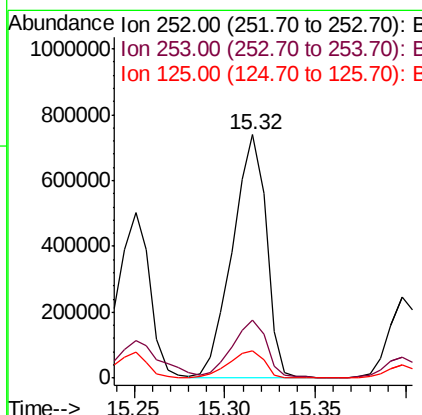
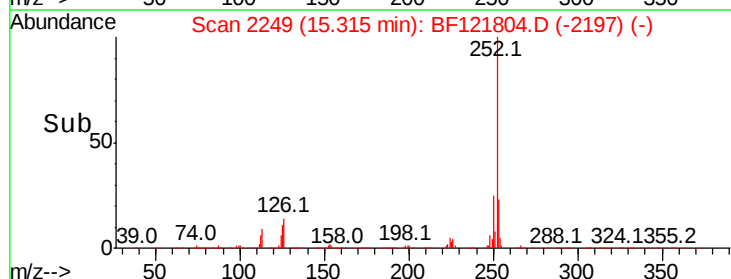
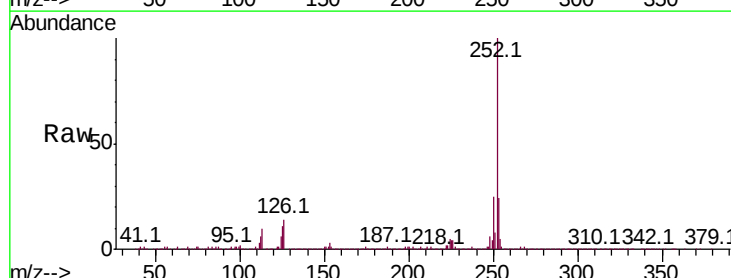
Manual Integrations
APPROVED

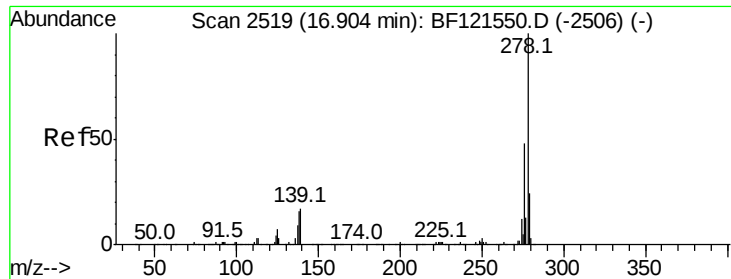
mohammad
10/5/2020 10:27:52 AM



#90
Benzo(a)pyrene
Concen: 70.769 ng
RT: 15.32 min Scan# 2249
Delta R.T. 0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.3	25.9
125	11.4	8.6	13.0





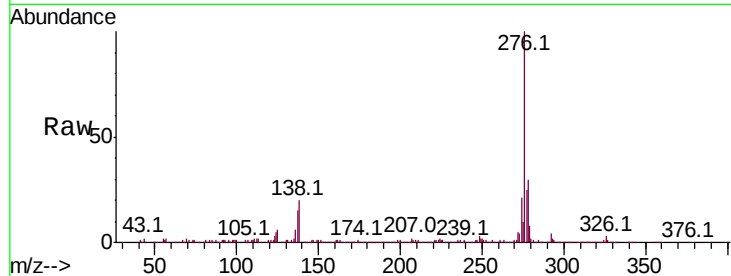
#91
Dibenzo(a,h)anthracene
Concen: 11.349 ng m
RT: 16.79 min Scan# 2500
Delta R.T. -0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Instrument :
BNA_F
ClientSampled :
B-15(13-14)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.0	19.4#
279	27.3	19.0	28.4

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:52 AM

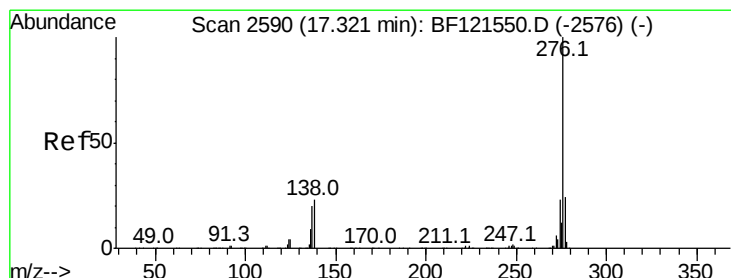
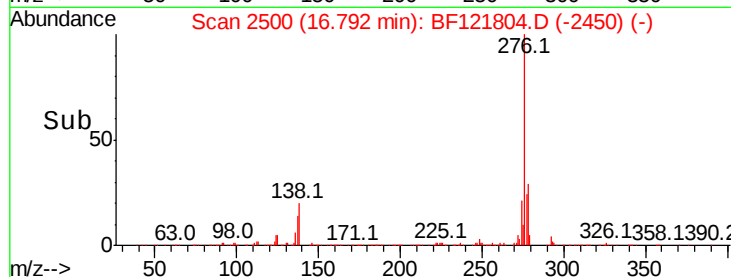
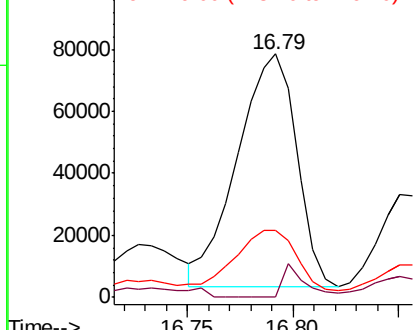


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 36.645 ng
RT: 17.22 min Scan# 2572
Delta R.T. 0.01 min
Lab File: BF121804.D
Acq: 2 Oct 2020 20:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.4	29.2
138	21.3	17.8	26.6

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

