

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
 Data File : BF121838.D
 Acq On : 6 Oct 2020 2:02
 Operator : JU/CG
 Sample : L4247-09 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-19(7-9)

Manual Integrations
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mohammad
 10/7/2020 10:36:44 AM

Quant Time: Oct 06 03:18:48 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	98364	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	364444	20.00	ng	-0.01
39) Acenaphthene-d10	9.80	164	164288	20.00	ng	-0.01
64) Phenanthrene-d10	11.29	188	270346	20.00	ng	0.00
76) Chrysene-d12	13.94	240	221722	20.00	ng	0.00
86) Perylene-d12	15.38	264	239846	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	45480	6.87	ng	0.00
7) Phenol-d6	6.40	99	62481	7.20	ng	-0.01
23) Nitrobenzene-d5	7.33	82	37569	5.53	ng	-0.01
42) 2,4,6-Tribromophenol	10.59	330	11785	5.77	ng	-0.01
45) 2-Fluorobiphenyl	9.12	172	75945	7.00	ng	-0.01
79) Terphenyl-d14	12.87	244	71244	6.51	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.07	128	149031	7.747	ng	98
37) 2-Methylnaphthalene	8.76	142	48575	3.853	ng	97
38) 1-Methylnaphthalene	8.86	142	43167	3.679	ng	97
49) Acenaphthylene	9.66	152	74586	4.684	ng	99
52) Acenaphthene	9.83	154	248203	24.677	ng	99
55) Dibenzofuran	10.00	168	201355	14.215	ng	98
58) Fluorene	10.35	166	304450	28.106	ng	98
71) Phenanthrene	11.32	178	2491153	169.126	ng	98
72) Anthracene	11.37	178	952555	62.667	ng	100
73) Carbazole	11.52	167	285464	20.811	ng	99
75) Fluoranthene	12.52	202	3850201	244.866	ng	96
78) Pyrene	12.75	202	3347860	206.662	ng	96
81) Benzo(a)anthracene	13.93	228	2457116	175.168	ng	97
83) Chrysene	13.97	228	1920622m	135.213	ng	
87) Indeno(1,2,3-cd)pyrene	16.82	276	1036703	66.372	ng	94
88) Benzo(b)fluoranthene	14.97	252	2728267m	170.155	ng	
89) Benzo(k)fluoranthene	15.00	252	783108m	53.334	ng	
90) Benzo(a)pyrene	15.33	252	1873137	137.433	ng	95
91) Dibenzo(a,h)anthracene	16.81	278	287240m	22.092	ng	
92) Benzo(a,h,i)perylene	17.24	276	853083	66.747	ng	100

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

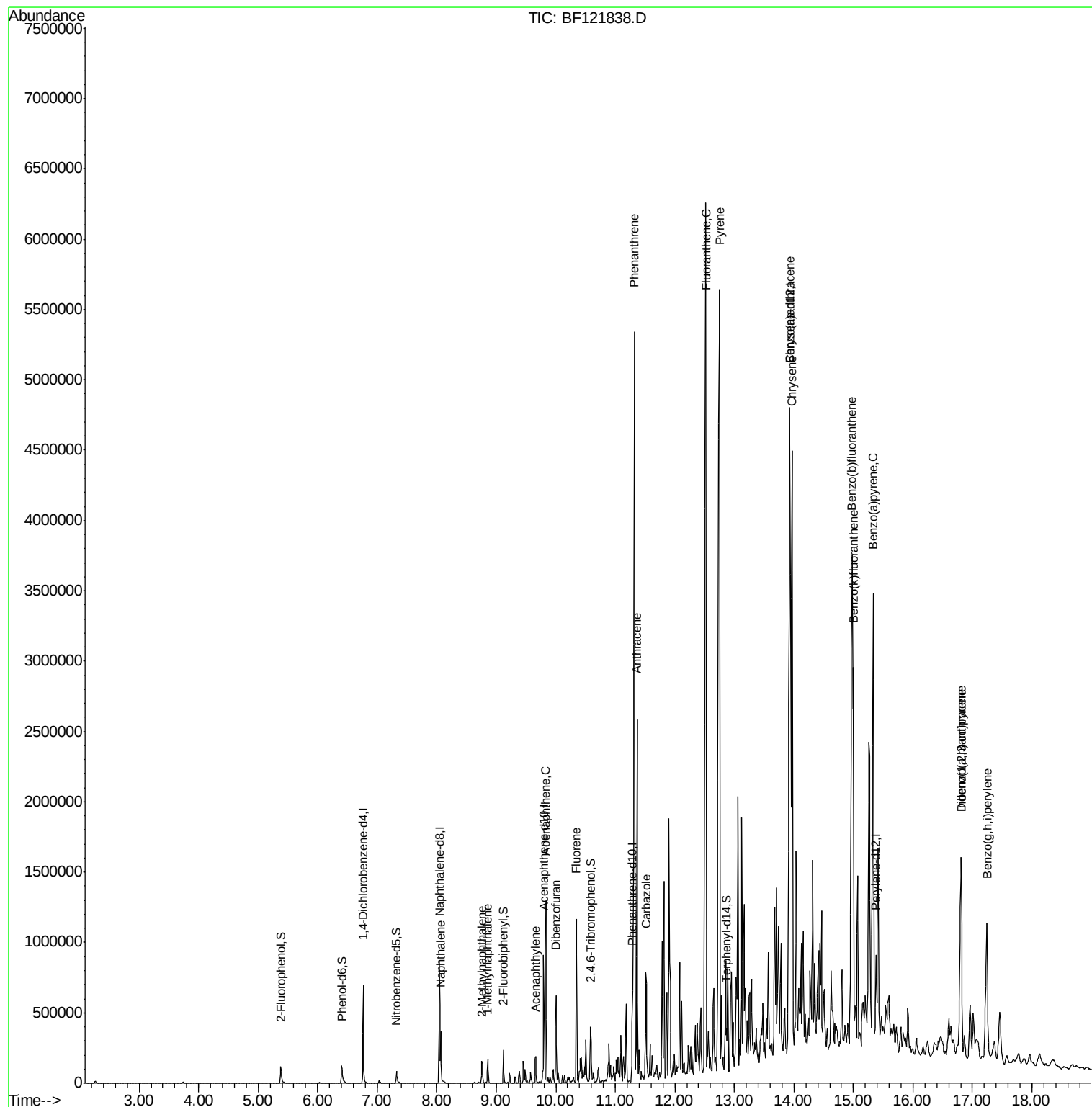
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
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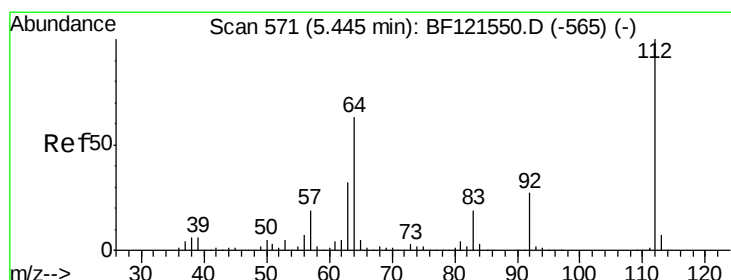
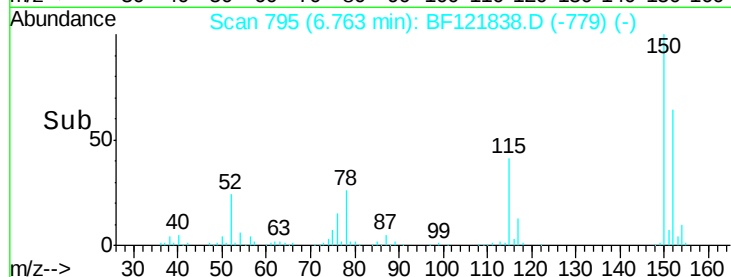
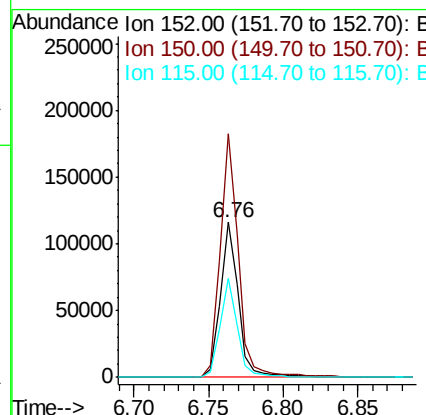
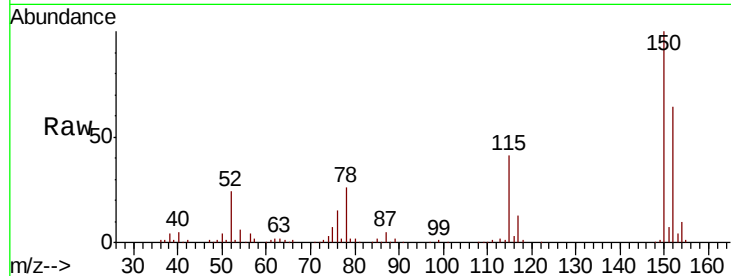
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.76 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Instrument :
 BNA_F
 ClientSampleId :
 B-19(7-9)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	125.3	187.9
115	63.8	51.9	77.9

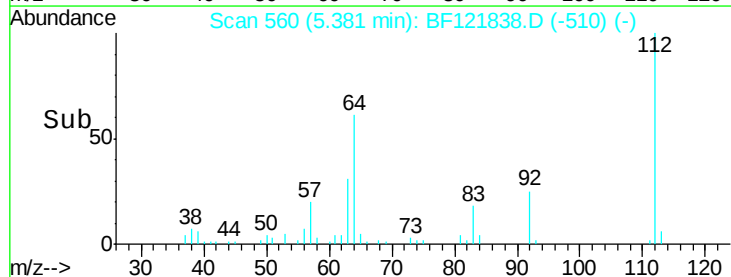
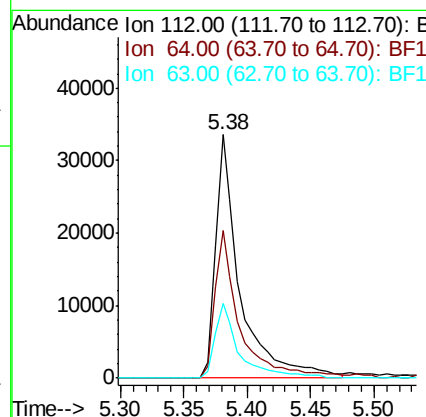
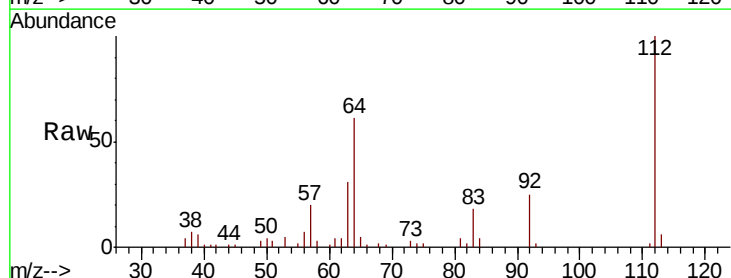
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#5
 2-Fluorophenol
 Concen: 6.871 ng
 RT: 5.38 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.6	50.4	75.6
63	30.8	25.8	38.6





#7

Phenol-d6

Concen: 7.195 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121838.D

Acq: 6 Oct 2020 2:02

Instrument :

BNA_F

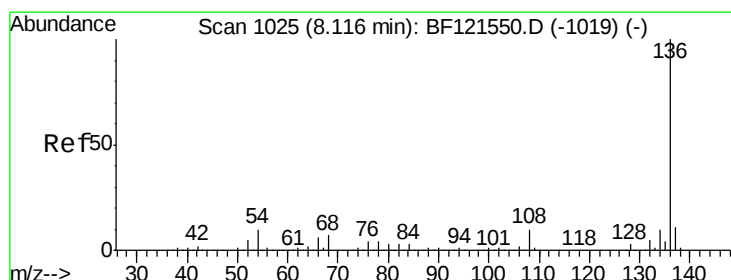
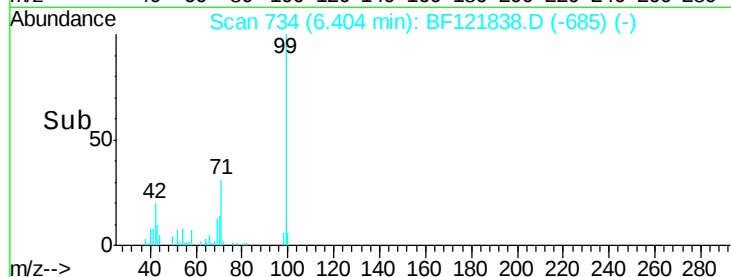
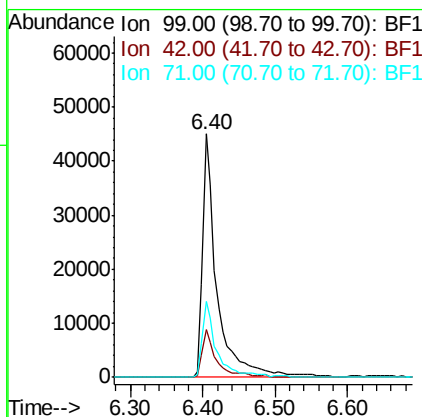
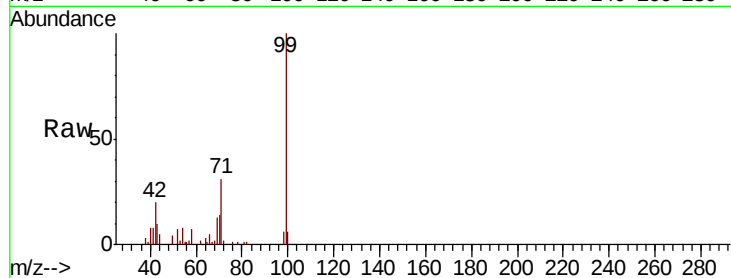
ClientSampleId :

B-19(7-9)

Tot Ion:	99	Resp:	62481
Ion Ratio	Lower	Upper	
99	100		
42	19.7	15.9	23.9
71	31.0	27.1	40.7

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#21

Naphthalene-d8

Concen: 20.000 ng

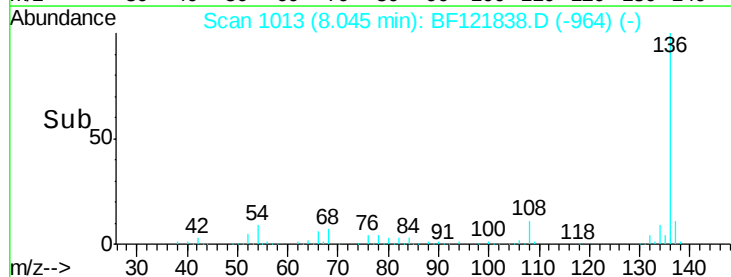
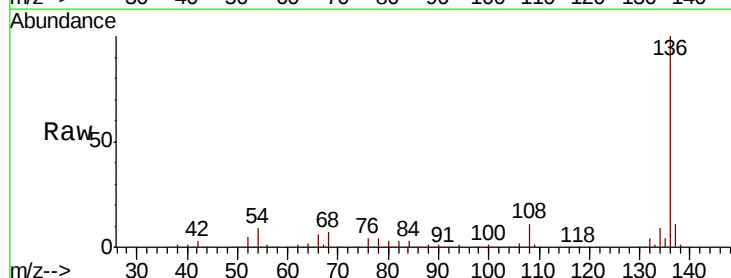
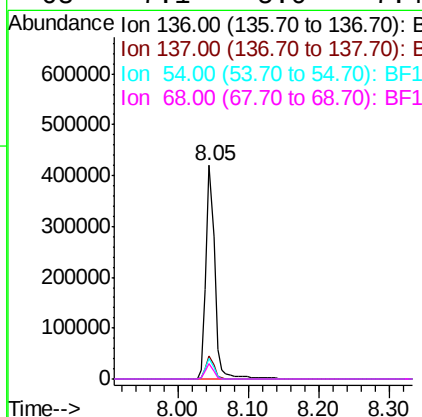
RT: 8.05 min Scan# 1013

Delta R.T. -0.01 min

Lab File: BF121838.D

Acq: 6 Oct 2020 2:02

Tgt Ion:	136	Resp:	364444
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.6	13.0
54	9.5	7.1	10.7
68	7.1	5.0	7.4





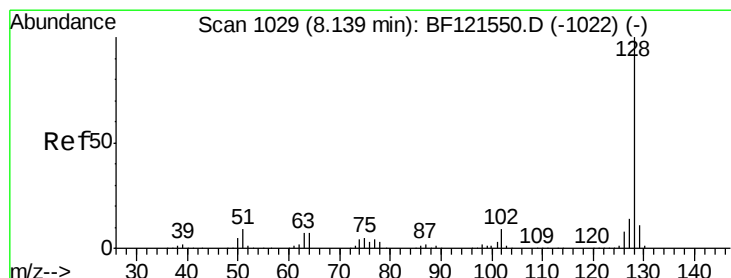
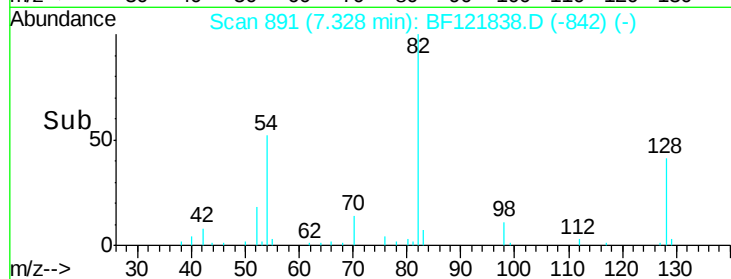
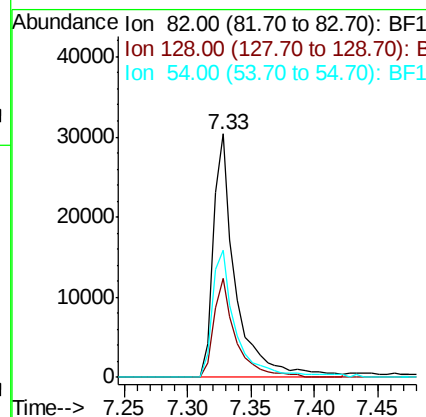
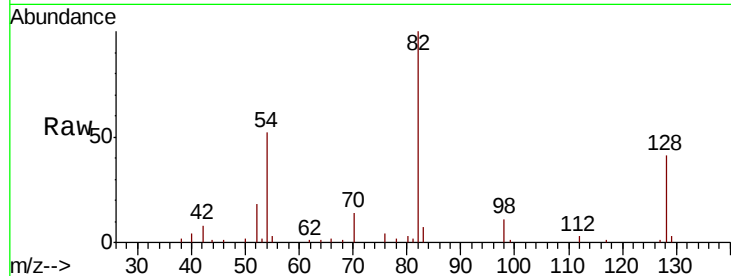
#23
Nitrobenzene-d5
Concen: 5.535 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampleId :
B-19(7-9)

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.9	35.0	52.4
54	52.0	43.9	65.9

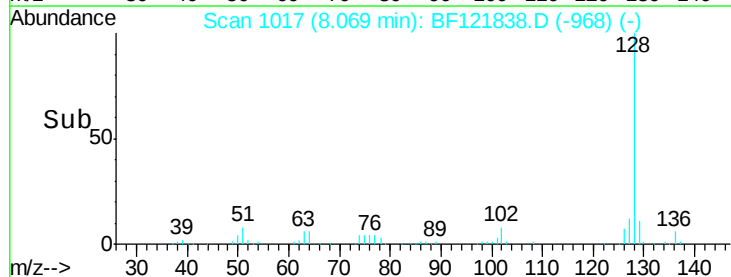
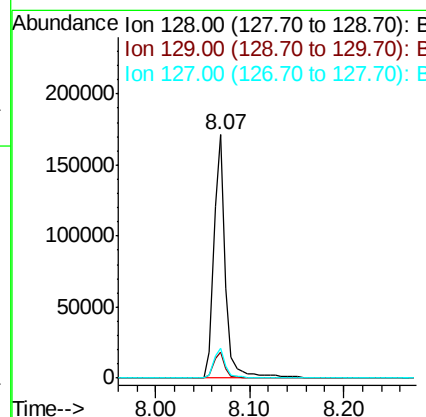
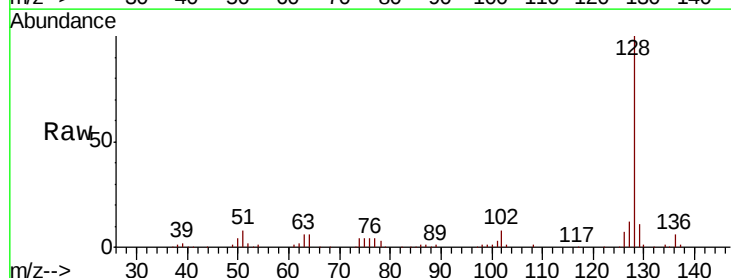
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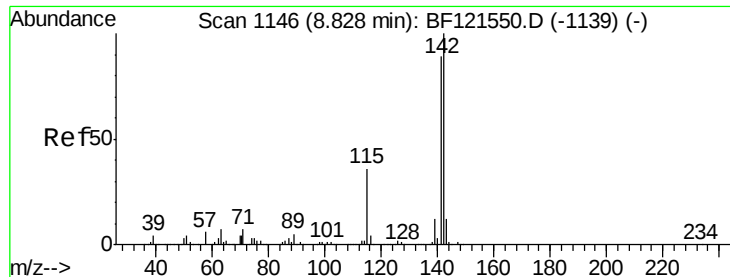
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#31
Naphthalene
Concen: 7.747 ng
RT: 8.07 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	12.4	10.8	16.2





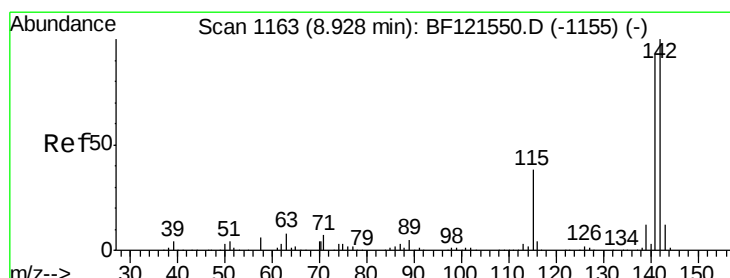
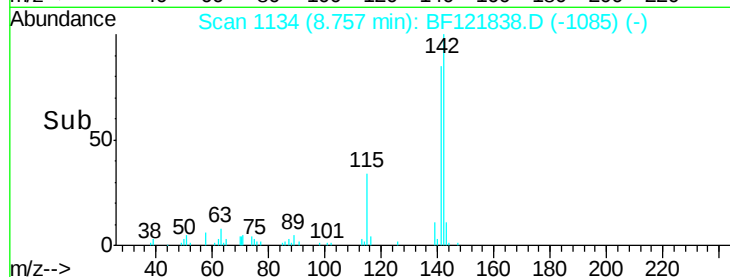
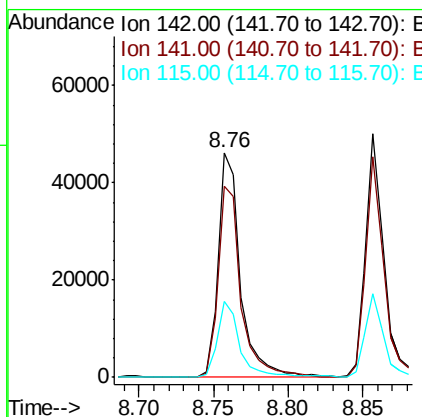
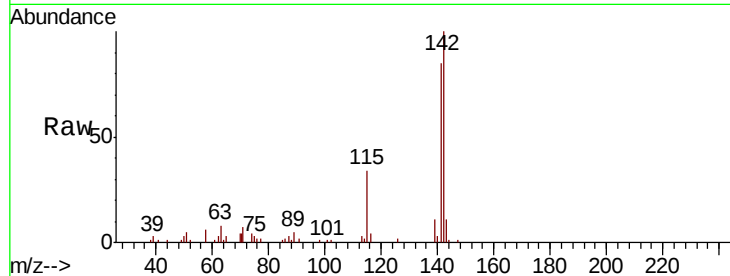
#37
2-Methylnaphthalene
Concen: 3.853 ng
RT: 8.76 min Scan# 1134
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampleId :
B-19(7-9)

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.3	70.2	105.4
115	34.0	28.6	43.0

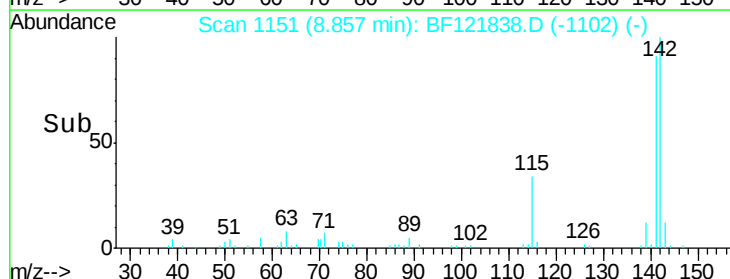
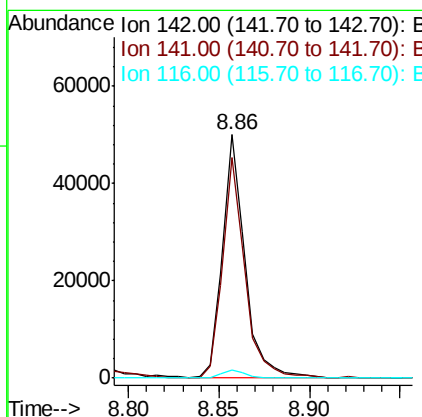
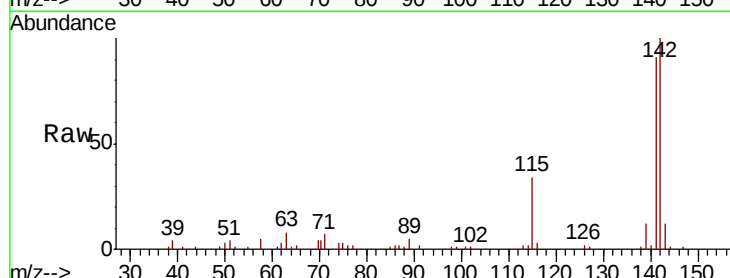
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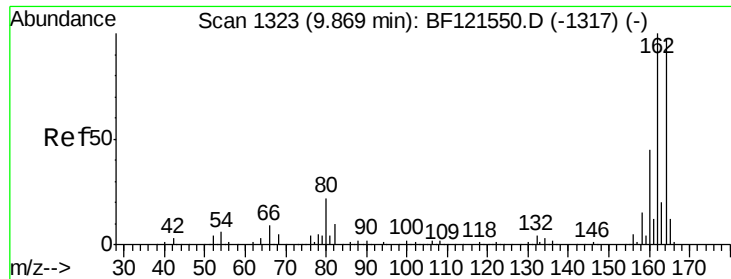
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#38
1-Methylnaphthalene
Concen: 3.679 ng
RT: 8.86 min Scan# 1151
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	74.5	111.7
116	3.2	3.2	4.8





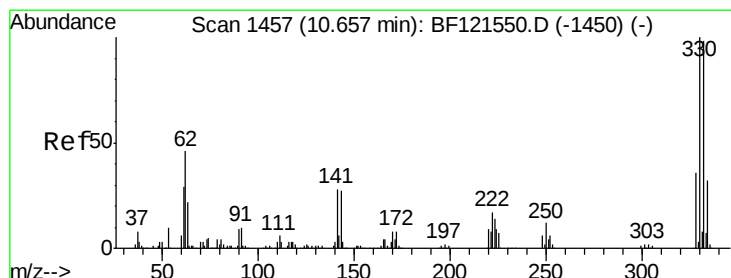
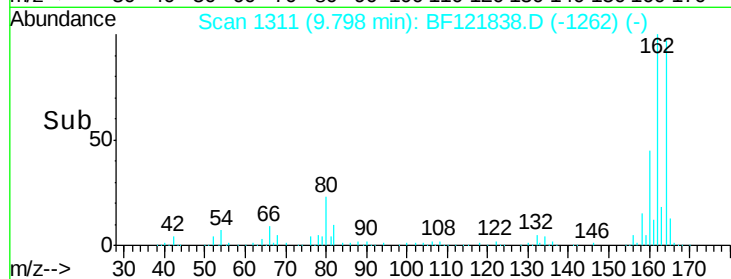
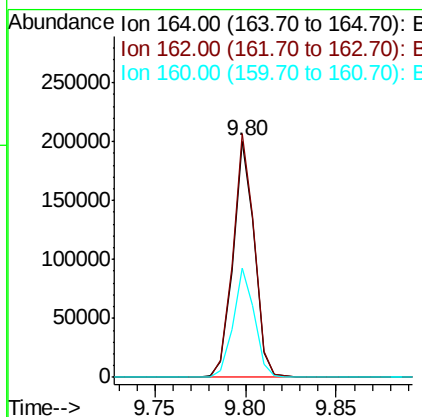
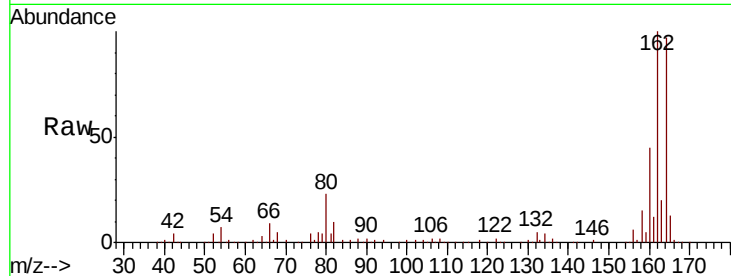
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.80 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampled :
B-19(7-9)

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.2	83.2	124.8
160	46.3	37.5	56.3

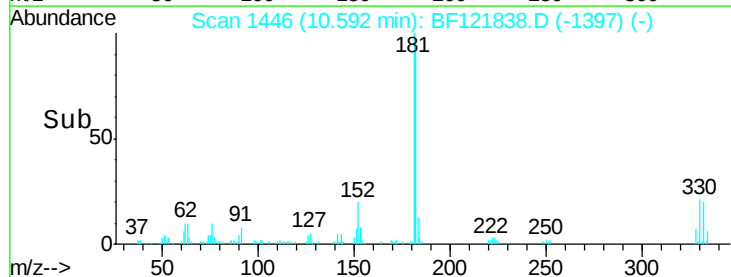
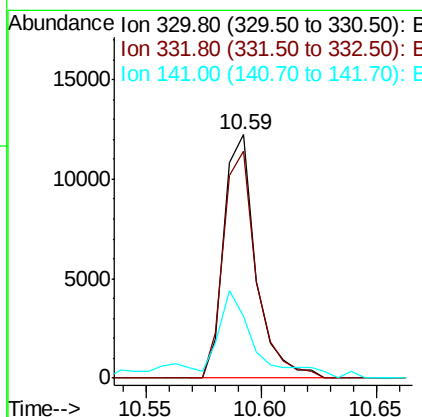
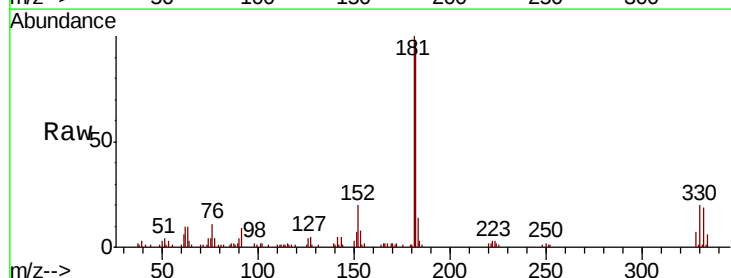
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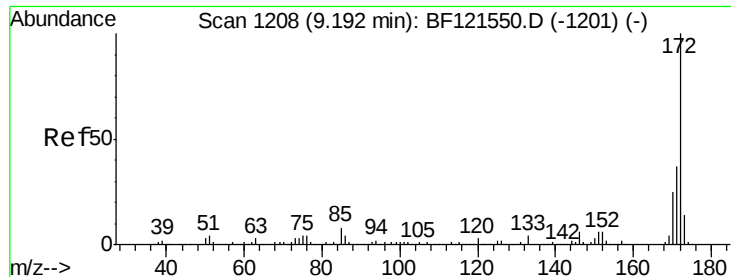
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#42
2,4,6-Tribromophenol
Concen: 5.772 ng
RT: 10.59 min Scan# 1446
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.3	115.9
141	50.3	22.3	33.5#





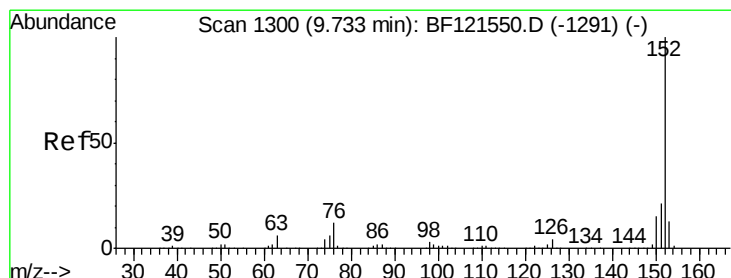
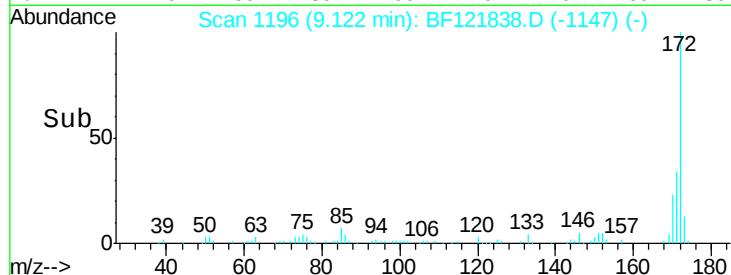
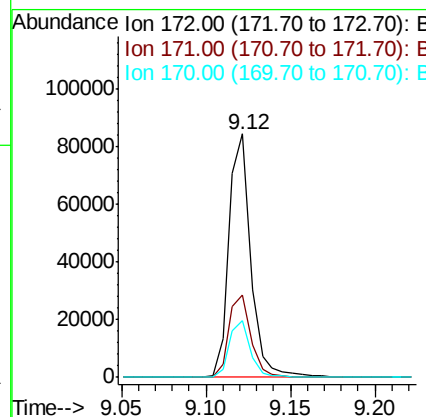
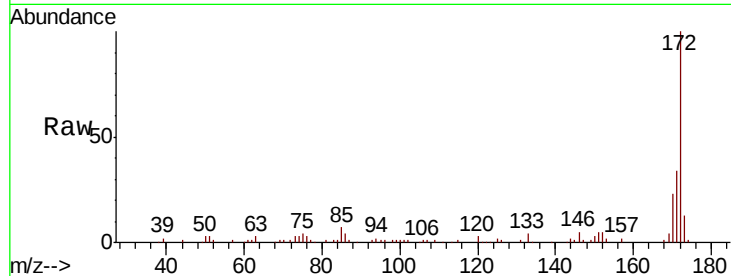
#45
2-Fluorobiphenyl
Concen: 7.001 ng
RT: 9.12 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampled :
B-19(7-9)

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	33.9	29.1	43.7	
170	23.4	19.8	29.6	

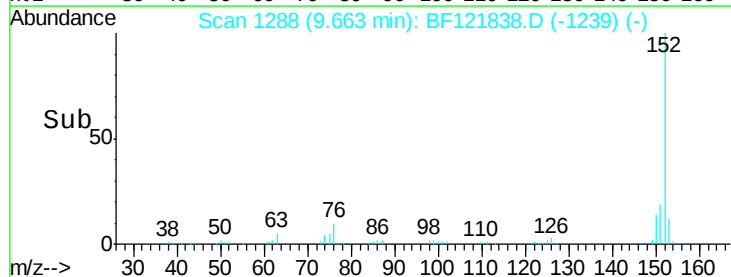
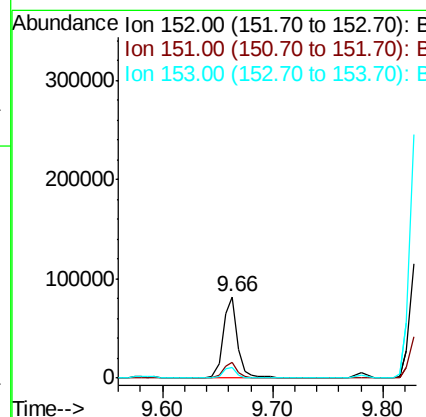
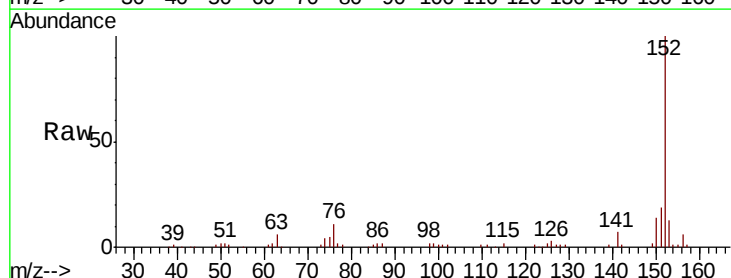
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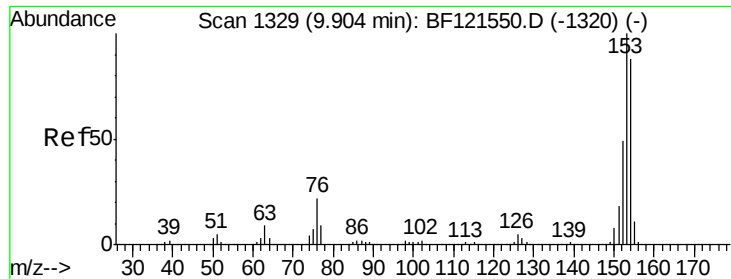
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#49
Acenaphthylene
Concen: 4.684 ng
RT: 9.66 min Scan# 1288
Delta R.T. -0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	19.5	16.4	24.6	
153	13.3	10.6	15.8	





#52

Acenaphthene

Concen: 24.677 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121838.D

Acq: 6 Oct 2020 2:02

Instrument :

BNA_F

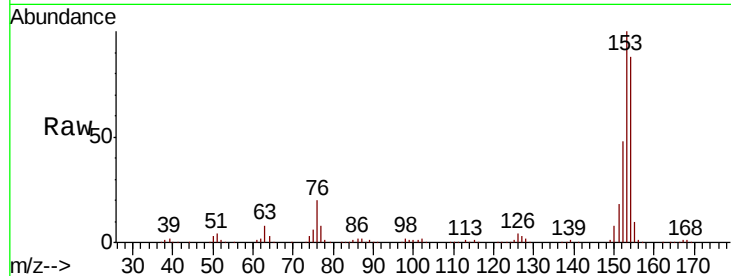
ClientSampleId :

B-19(7-9)

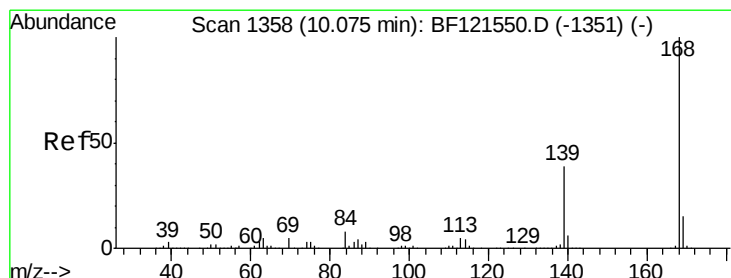
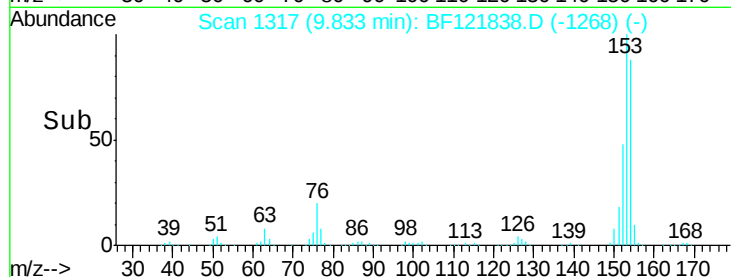
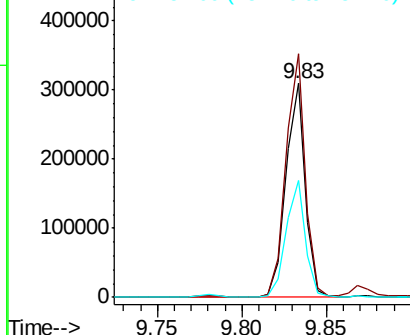
Tot Ion:	154	Resp:	248203
Ion Ratio	Lower	Upper	
154	100		
153	113.9	89.8	134.8
152	54.7	43.2	64.8

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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: 14.215 ng

RT: 10.00 min Scan# 1346

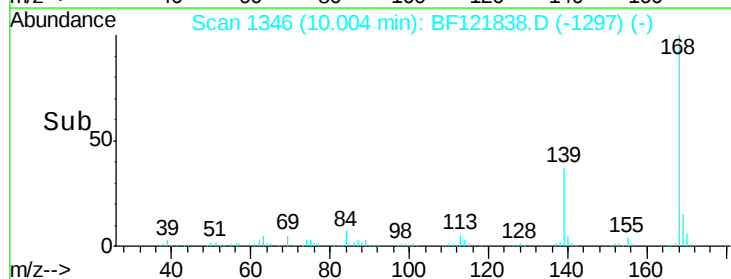
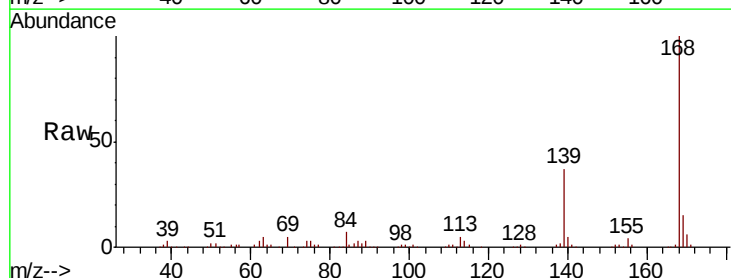
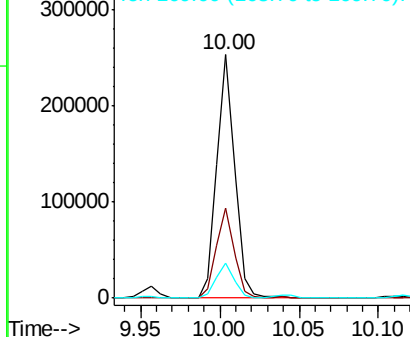
Delta R.T. -0.01 min

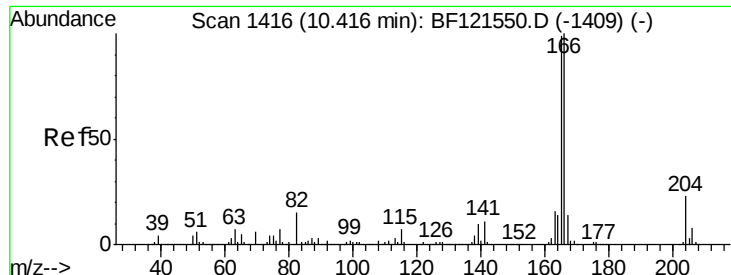
Lab File: BF121838.D

Acq: 6 Oct 2020 2:02

Tgt Ion:	168	Resp:	201355
Ion Ratio	Lower	Upper	
168	100		
139	37.0	31.0	46.6
169	14.5	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





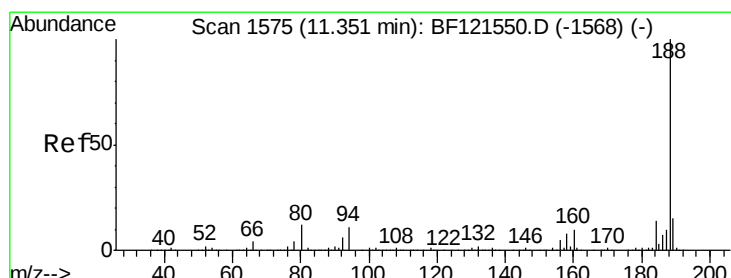
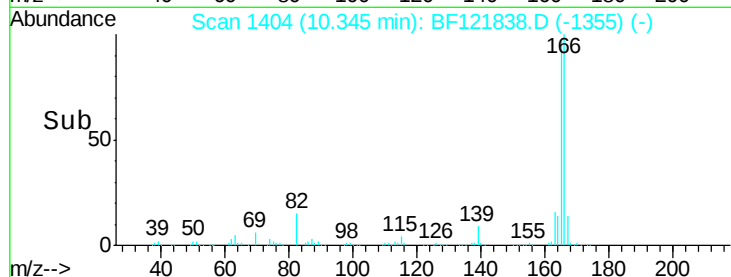
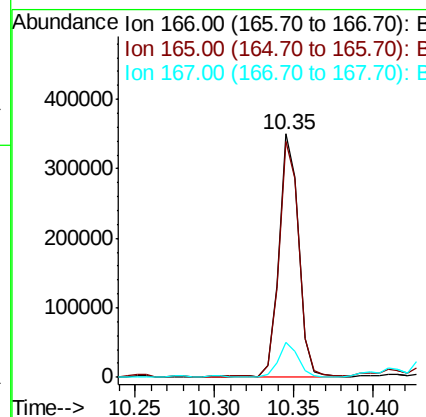
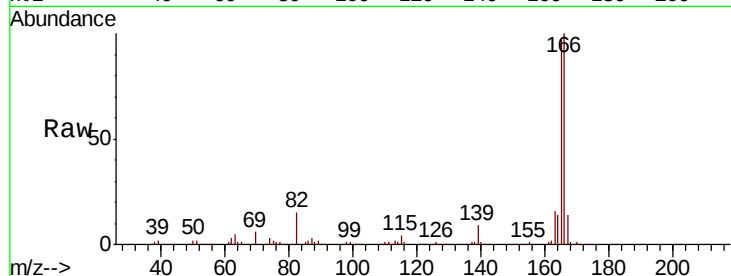
#58
 Fluorene
 Concen: 28.106 ng
 RT: 10.35 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Instrument :
 BNA_F
 ClientSampleId :
 B-19(7-9)

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.0	79.1	118.7
167	14.2	11.0	16.6

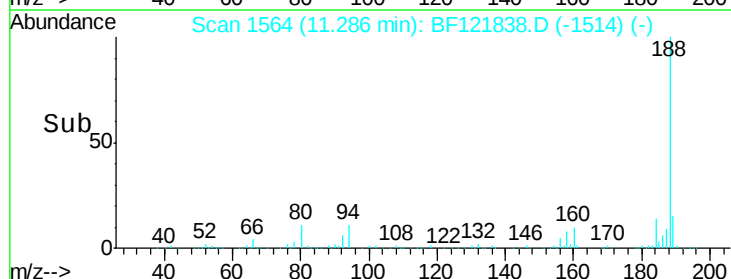
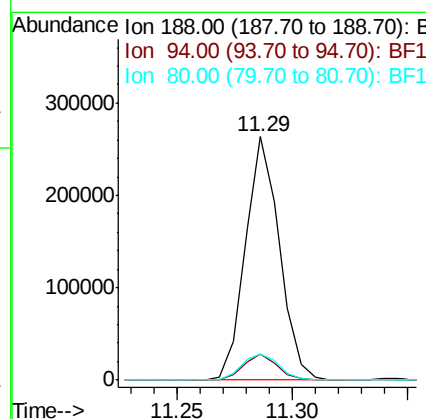
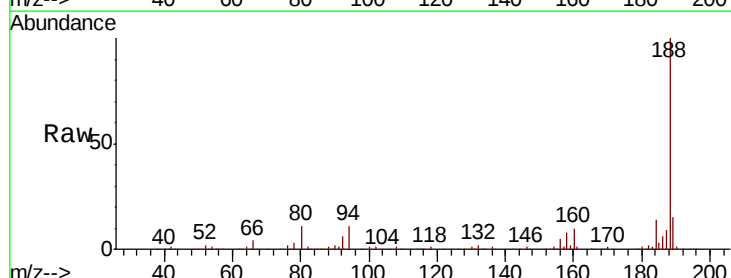
Manual Integrations
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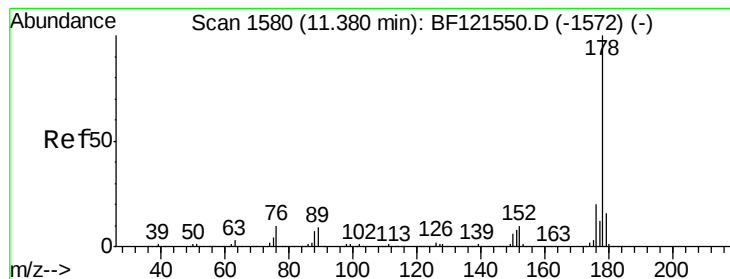
mohammad
 10/7/2020 10:36:44 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.29 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.3	12.5
80	10.6	9.1	13.7





#71

Phenanthrene

Concen: 169.126 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF121838.D

Acq: 6 Oct 2020 2:02

Instrument :

BNA_F

ClientSampleId :

B-19(7-9)

Tot Ion:178 Resp: 2491153

Ion Ratio Lower Upper

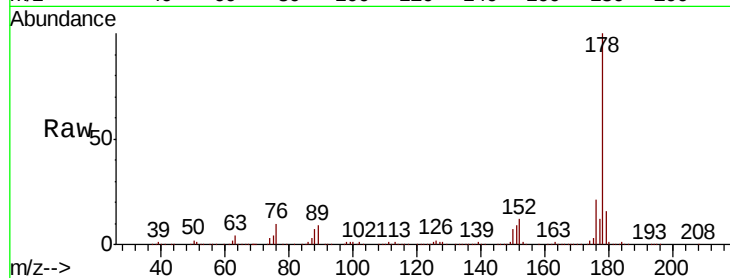
178 100

176 20.9 15.9 23.9

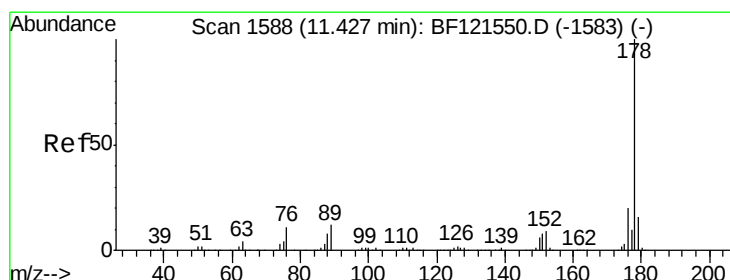
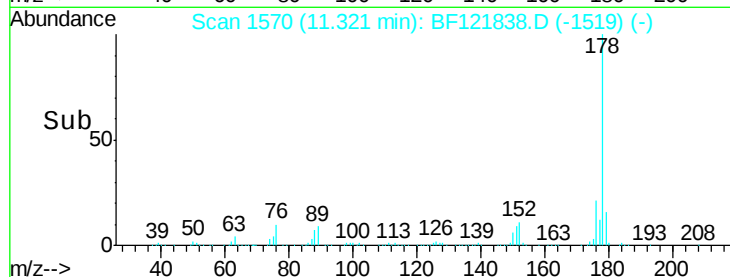
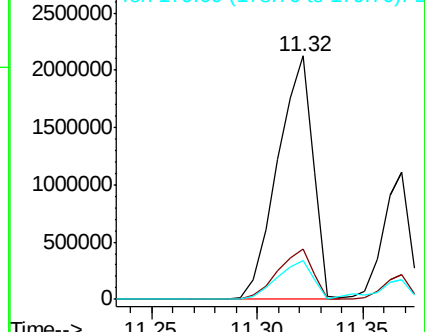
179 16.1 12.2 18.4

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



#72

Anthracene

Concen: 62.667 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.00 min

Lab File: BF121838.D

Acq: 6 Oct 2020 2:02

Tgt Ion:178 Resp: 952555

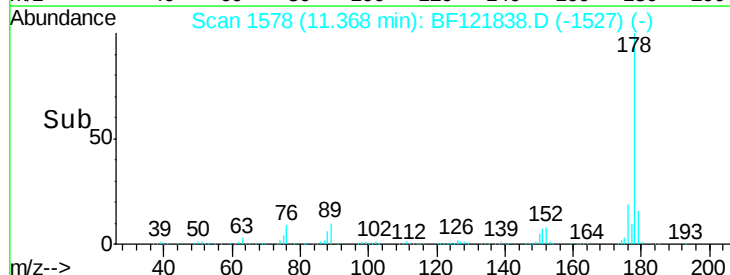
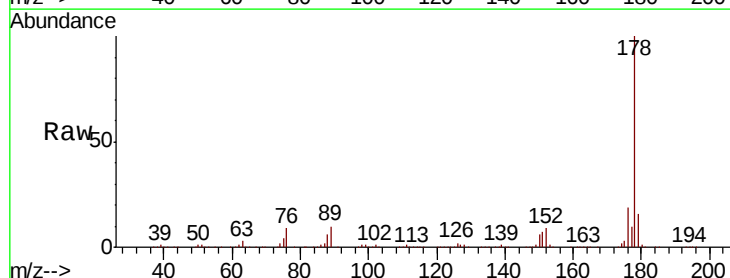
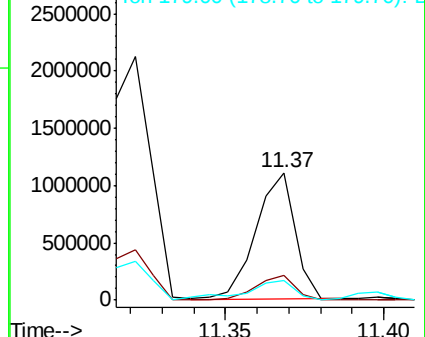
Ion Ratio Lower Upper

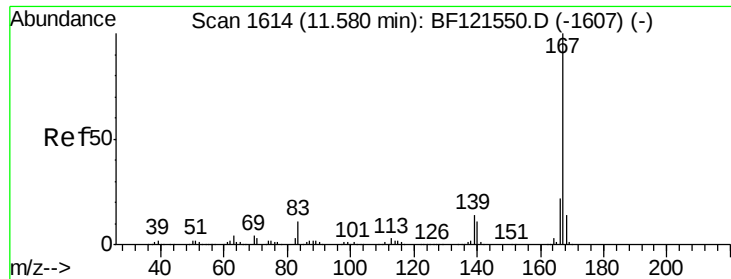
178 100

176 19.4 15.7 23.5

179 15.7 12.7 19.1

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





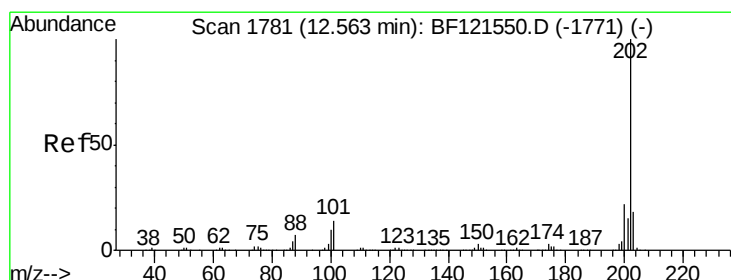
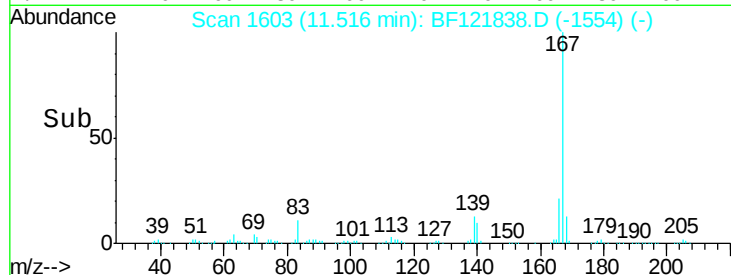
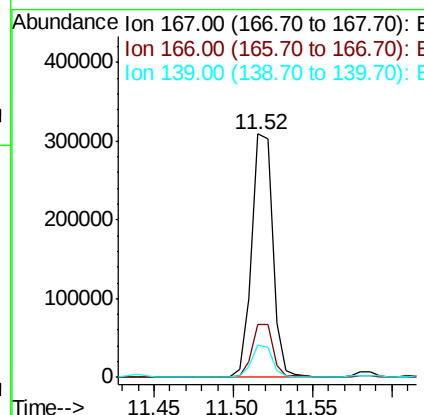
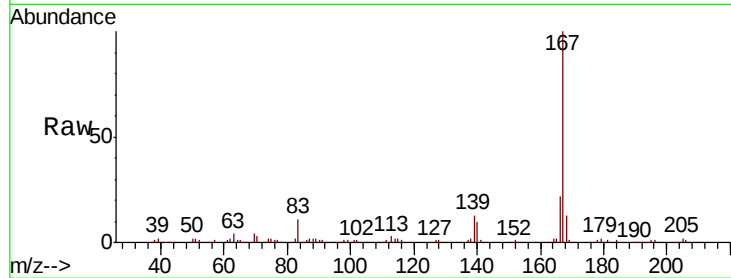
#73
 Carbazole
 Concen: 20.811 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. -0.01 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Instrument :
 BNA_F
 ClientSampleId :
 B-19(7-9)

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.8	26.6
139	13.1	10.8	16.2

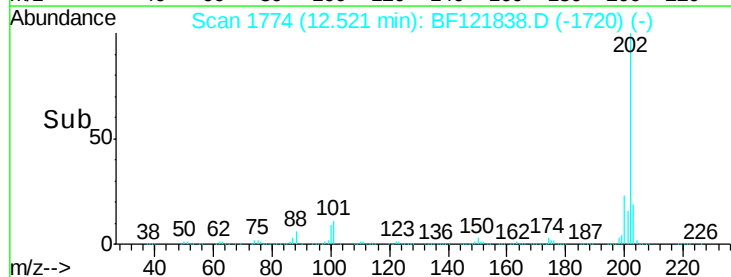
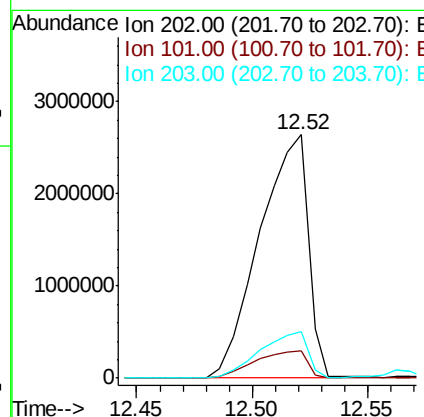
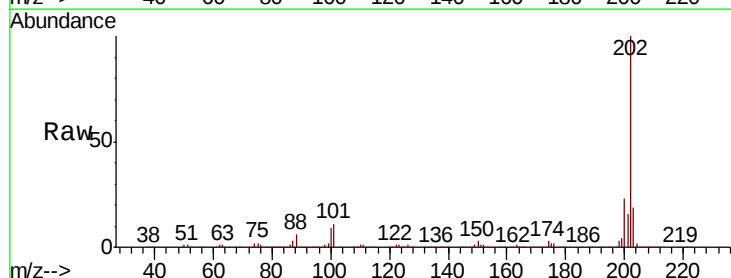
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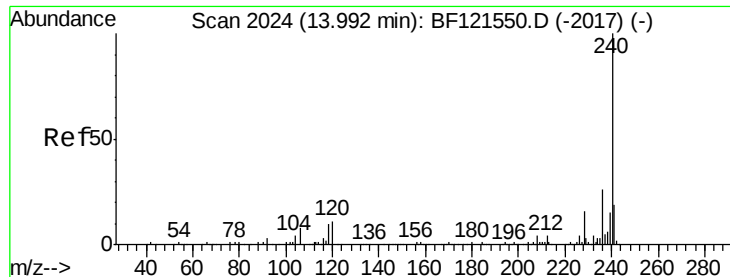
mohammad
 10/7/2020 10:36:44 AM



#75
 Fluoranthene
 Concen: 244.866 ng
 RT: 12.52 min Scan# 1774
 Delta R.T. 0.02 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	33.4
203	19.0	0.0	37.9





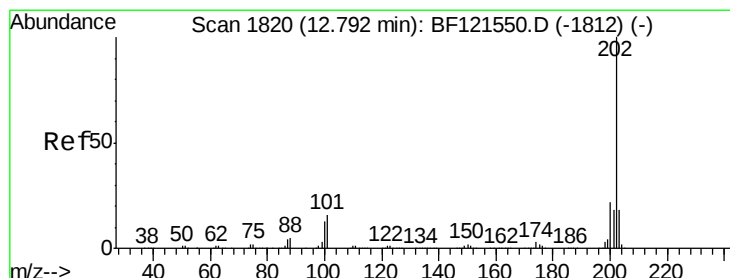
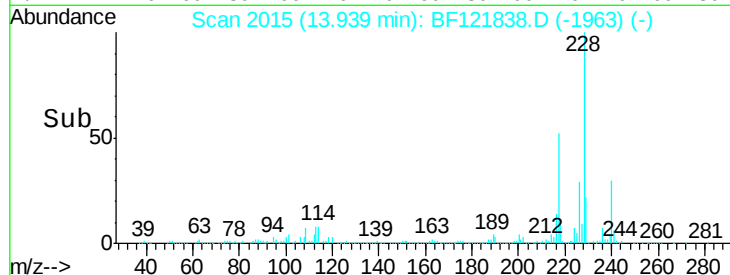
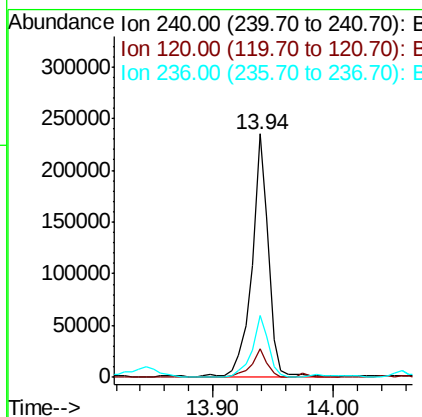
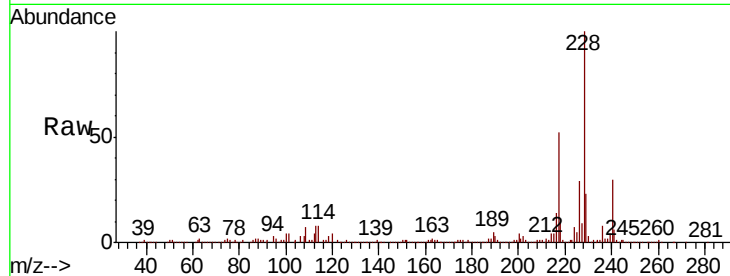
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.94 min Scan# 2015
Delta R.T. 0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampleId :
B-19(7-9)

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.2	13.8
236	25.2	20.9	31.3

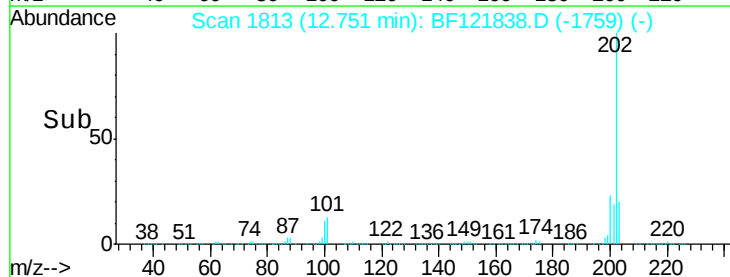
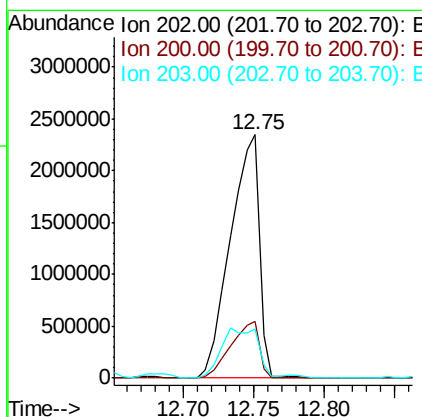
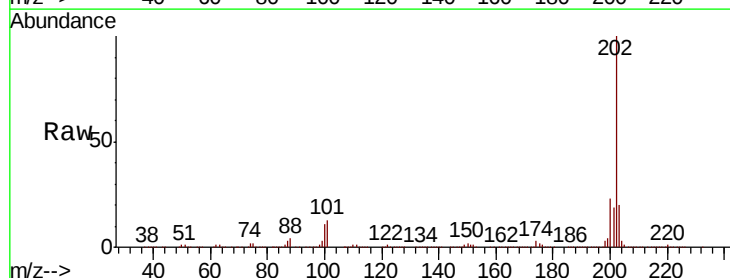
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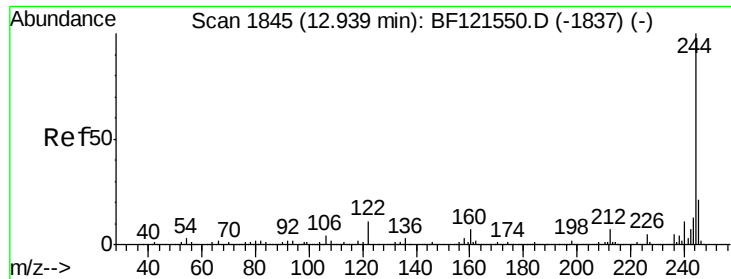
mohammad
10/7/2020 10:36:44 AM



#78
Pyrene
Concen: 206.662 ng
RT: 12.75 min Scan# 1813
Delta R.T. 0.02 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.4	17.4	26.2
203	20.1	14.6	21.8





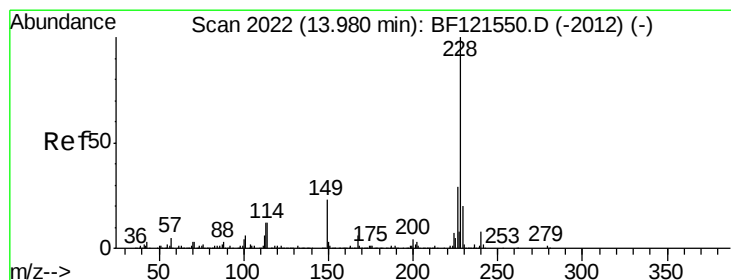
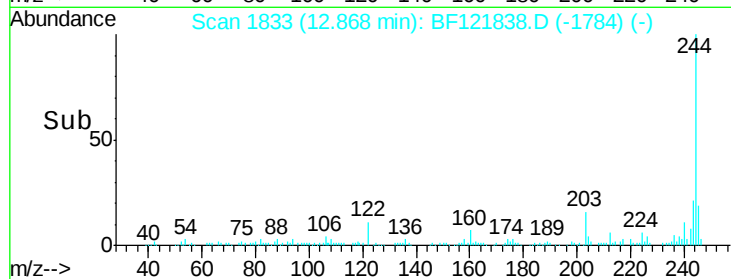
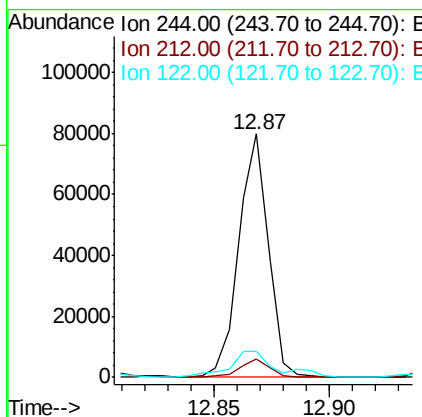
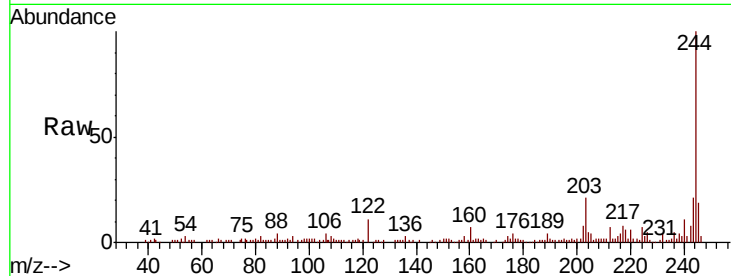
#79
 Terphenyl-d14
 Concen: 6.510 ng
 RT: 12.87 min Scan# 1833
 Delta R.T. -0.01 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Instrument :
 BNA_F
 ClientSampleId :
 B-19(7-9)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.4	8.2
122	10.8	8.1	12.1

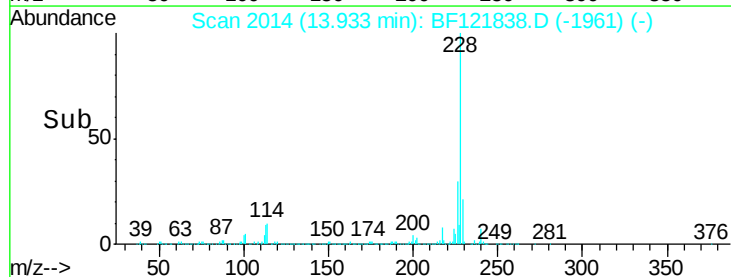
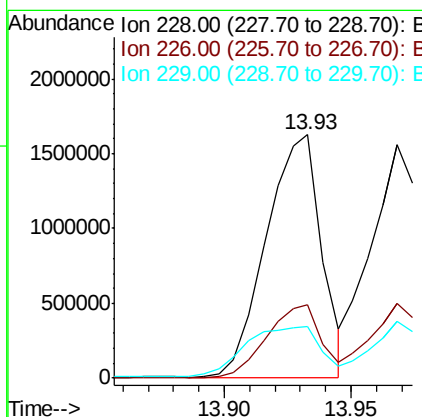
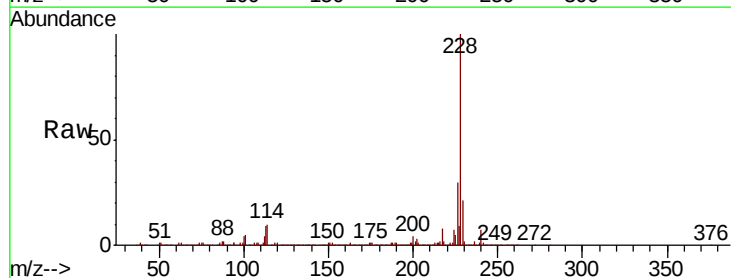
Manual Integrations
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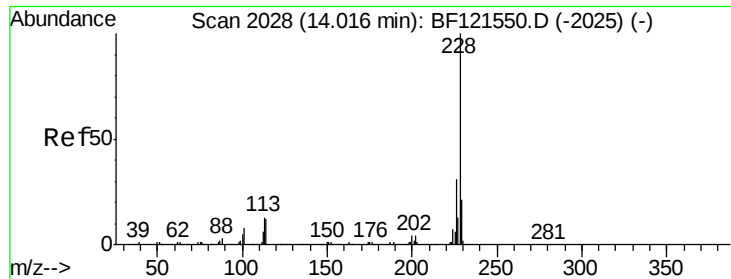
mohammad
 10/7/2020 10:36:44 AM



#81
 Benzo(a)anthracene
 Concen: 175.168 ng
 RT: 13.93 min Scan# 2014
 Delta R.T. 0.01 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.3	33.5
229	21.5	16.2	24.4





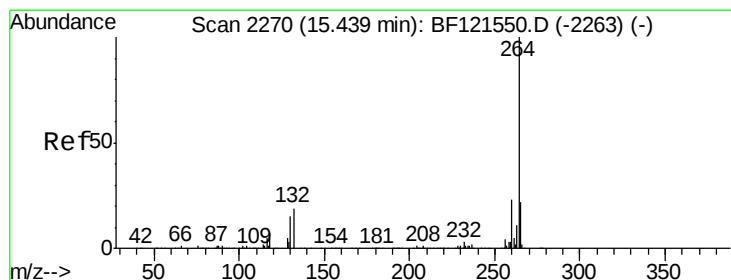
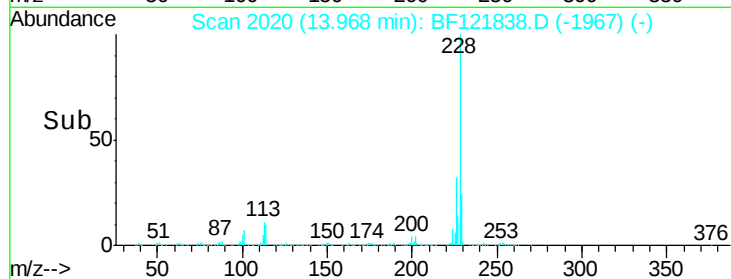
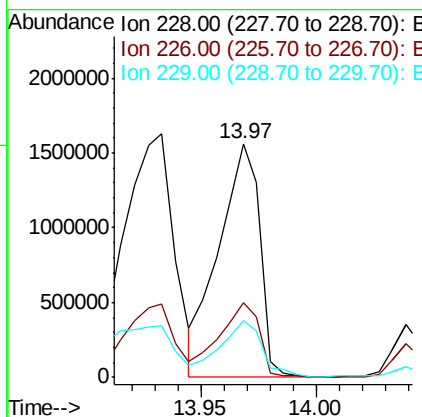
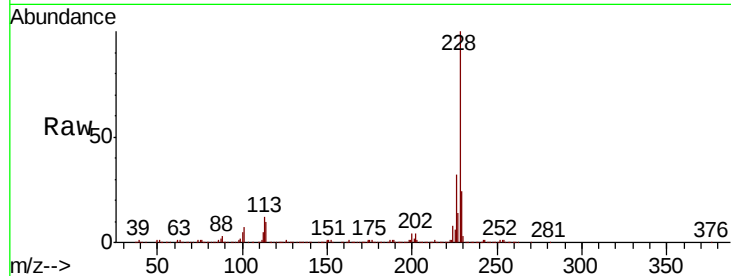
#83
Chrysene
Concen: 135.213 ng/mL
RT: 13.97 min Scan# 2020
Delta R.T. 0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampleId :
B-19(7-9)

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.6	37.0
229	24.4	15.9	23.9

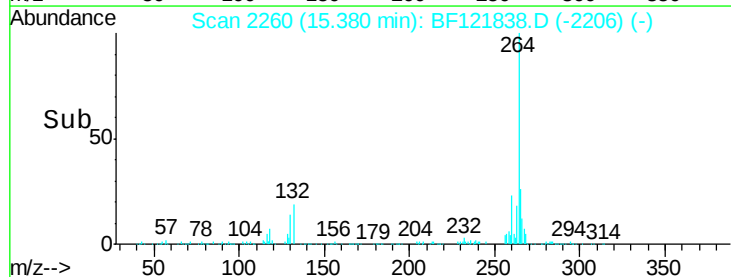
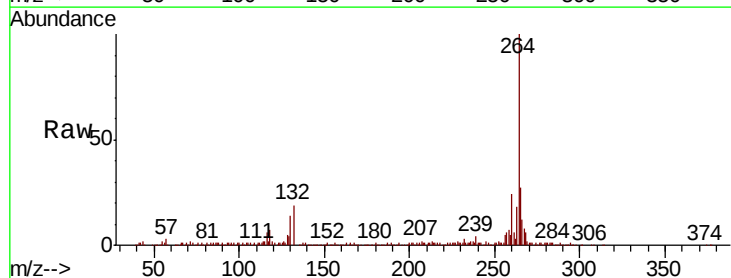
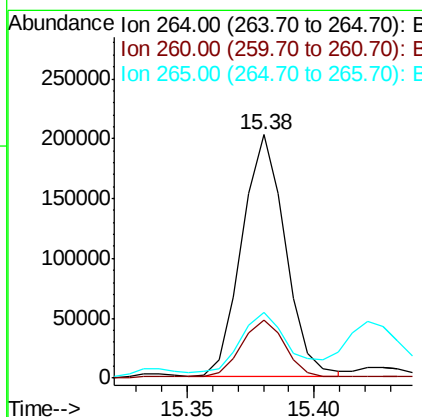
Manual Integrations
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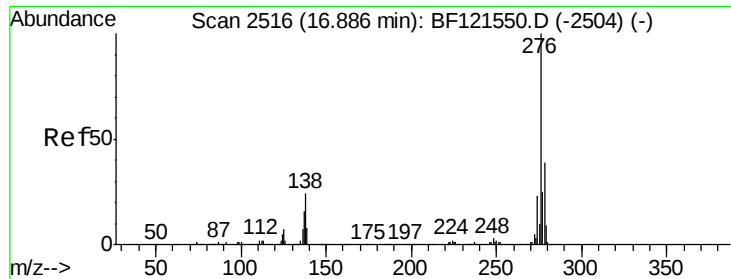
mohammad
10/7/2020 10:36:44 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.38 min Scan# 2260
Delta R.T. 0.02 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.7	28.1
265	27.0	17.3	25.9





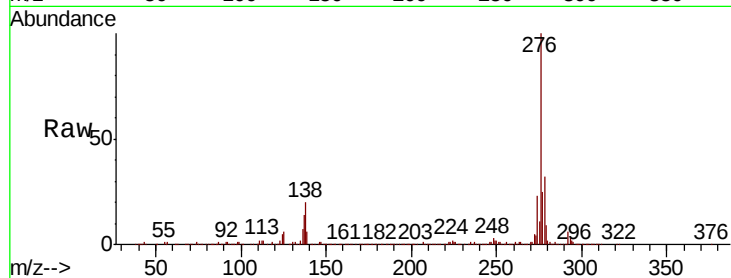
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 66.372 ng
 RT: 16.82 min Scan# 2504
 Delta R.T. 0.03 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Instrument :
 BNA_F
 ClientSampled :
 B-19(7-9)

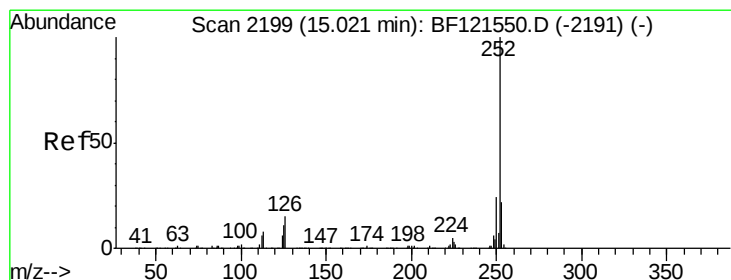
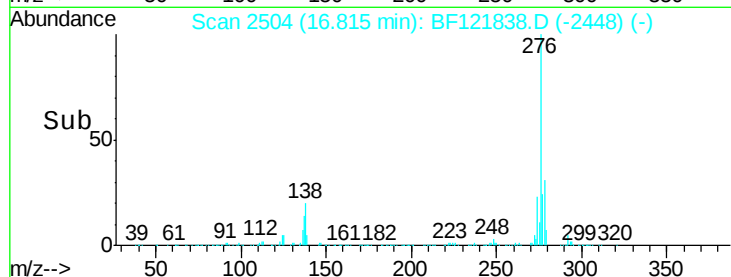
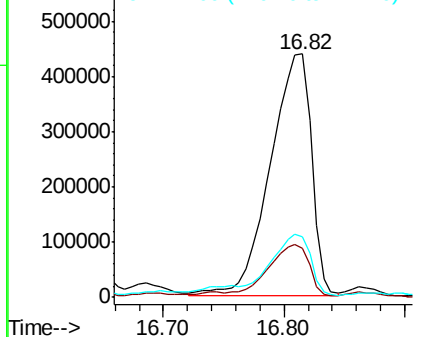
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.6	19.9	29.9
277	23.8	20.4	30.6

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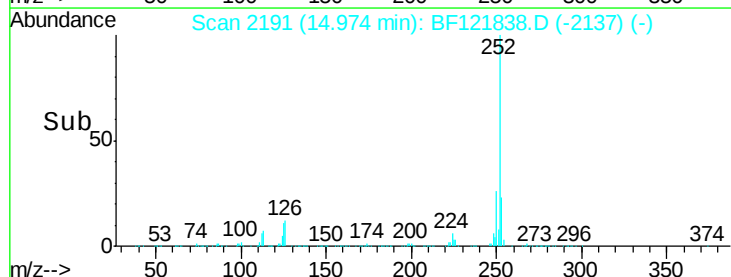
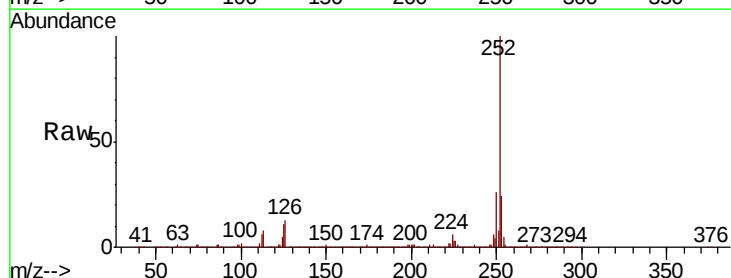
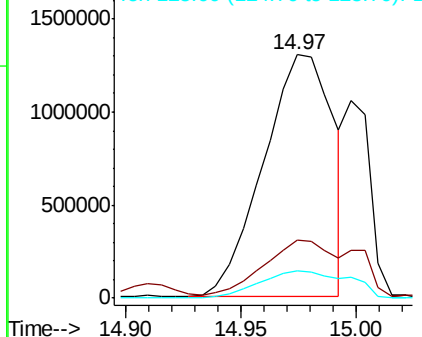
Abundance Ion 276.00 (275.70 to 276.70): E
 600000 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

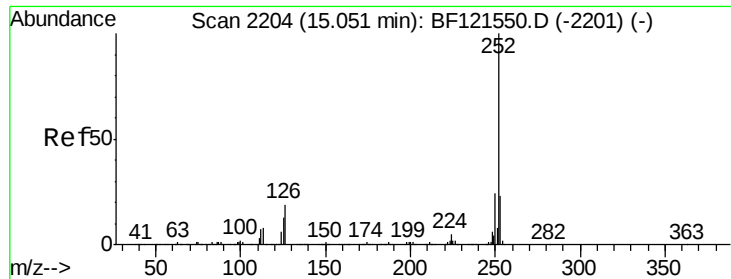


#88
 Benzo(b)fluoranthene
 Concen: 170.155 ng m
 RT: 14.97 min Scan# 2191
 Delta R.T. 0.02 min
 Lab File: BF121838.D
 Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	11.1	8.0	12.0

Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 253.00 (252.70 to 253.70): E
 Ion 125.00 (124.70 to 125.70): E





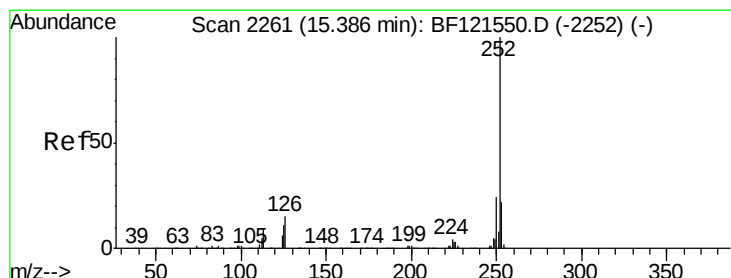
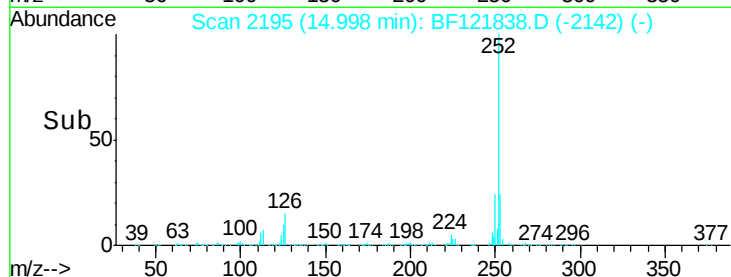
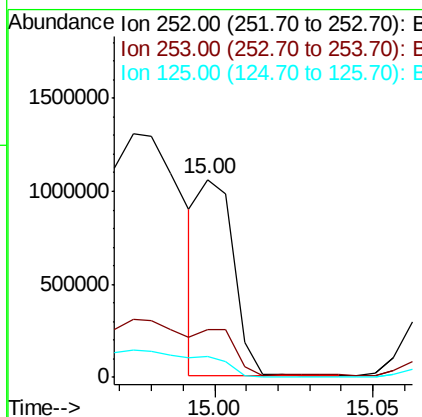
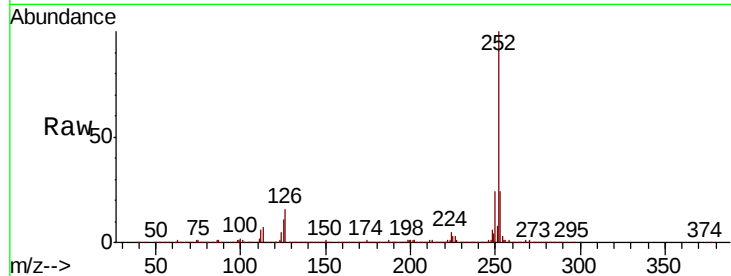
#89
Benzo(k)fluoranthene
Concen: 53.334 ng m
RT: 15.00 min Scan# 2195
Delta R.T. 0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampleId :
B-19(7-9)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.6
125	10.6	7.7	11.5

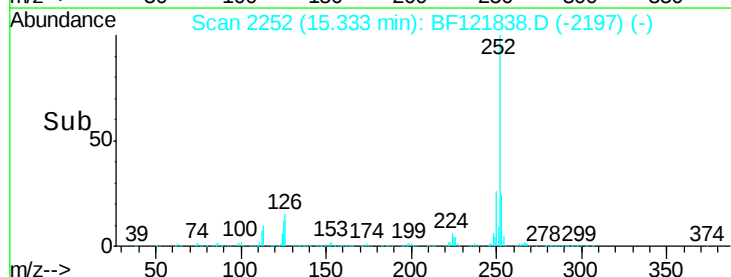
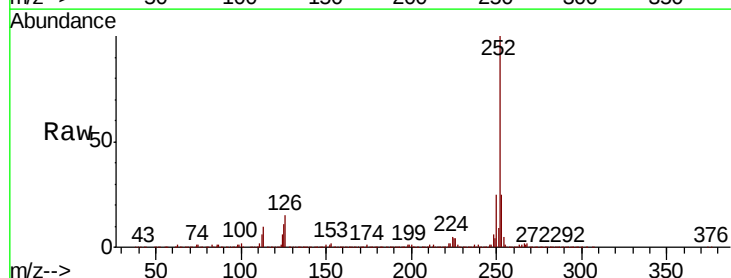
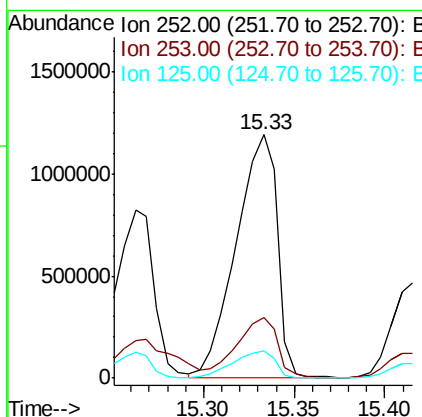
Manual Integrations
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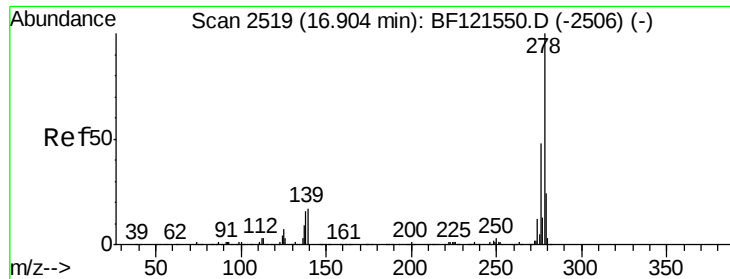
mohammad
10/7/2020 10:36:44 AM



#90
Benzo(a)pyrene
Concen: 137.433 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.02 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.3	25.9
125	11.2	8.6	13.0





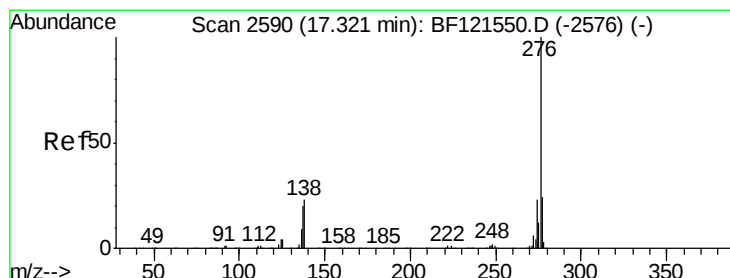
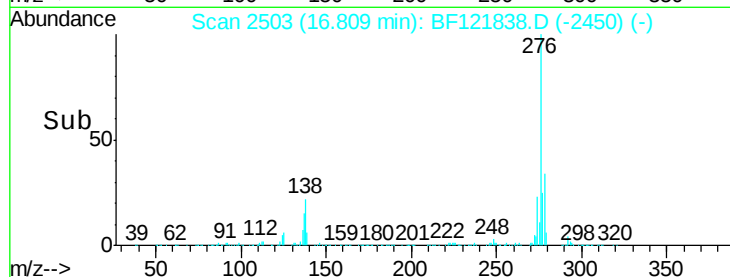
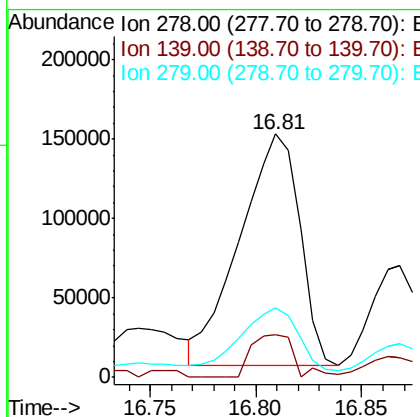
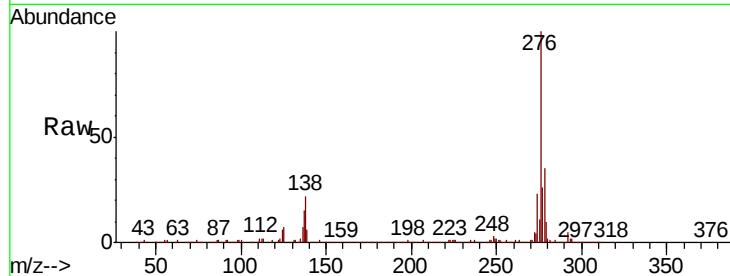
#91
Dibenzo(a,h)anthracene
Concen: 22.092 ng m
RT: 16.81 min Scan# 2503
Delta R.T. 0.01 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Instrument :
BNA_F
ClientSampleId :
B-19(7-9)

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.0	19.4
279	28.7	19.0	28.4

Manual Integrations
APPROVED

mohammad
10/7/2020 10:36:44 AM



#92
Benzo(g,h,i)perylene
Concen: 66.747 ng
RT: 17.24 min Scan# 2576
Delta R.T. 0.03 min
Lab File: BF121838.D
Acq: 6 Oct 2020 2:02

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.4	29.2
138	22.1	17.8	26.6

