

Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Manual Integrations
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Quant Time: Sep 07 04:04:54 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 28 09:25:49 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	263645	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	967289	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	469230	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	801129	20.00	ng	0.00
76) Chrysene-d12	14.04	240	580204	20.00	ng	0.02
86) Perylene-d12	15.52	264	589748	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	148462	9.45	ng	0.00
7) Phenol-d6	6.48	99	197955	9.01	ng	-0.01
23) Nitrobenzene-d5	7.42	82	115240	8.14	ng	-0.01
42) 2,4,6-Tribromophenol	10.69	330	45008	9.50	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	251944	8.66	ng	0.00
79) Terphenyl-d14	12.97	244	225275	8.17	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.17	128	97080	2.022	ng	96
38) 1-Methylnaphthalene	8.96	142	75944	2.528	ng	95
49) Acenaphthylene	9.76	152	439611	10.070	ng	97
52) Acenaphthene	9.93	154	231020	8.381	ng	99
55) Dibenzofuran	10.10	168	240185	5.998	ng	# 98
58) Fluorene	10.45	166	450227	14.915	ng	99
71) Phenanthrene	11.42	178	4417148	107.441	ng	96
72) Anthracene	11.47	178	1259165	31.140	ng	97
73) Carbazole	11.62	167	240295	6.163	ng	99
75) Fluoranthene	12.62	202	5342304	120.570	ng	97
78) Pyrene	12.85	202	5385518	129.969	ng	94
81) Benzo(a)anthracene	14.03	228	2993821	84.527	ng	96
83) Chrysene	14.07	228	2888382m	81.512	ng	
87) Indeno(1,2,3-cd)pyrene	17.00	276	1171157	32.276	ng	96
88) Benzo(b)fluoranthene	15.10	252	3080304m	80.294	ng	
89) Benzo(k)fluoranthene	15.12	252	932336m	26.129	ng	
90) Benzo(a)pyrene	15.46	252	2217759	64.290	ng	96
91) Dibenzo(a,h)anthracene	17.01	278	319900m	10.770	ng	
92) Benzo(g,h,i)perylene	17.45	276	1072037	37.467	ng	98

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

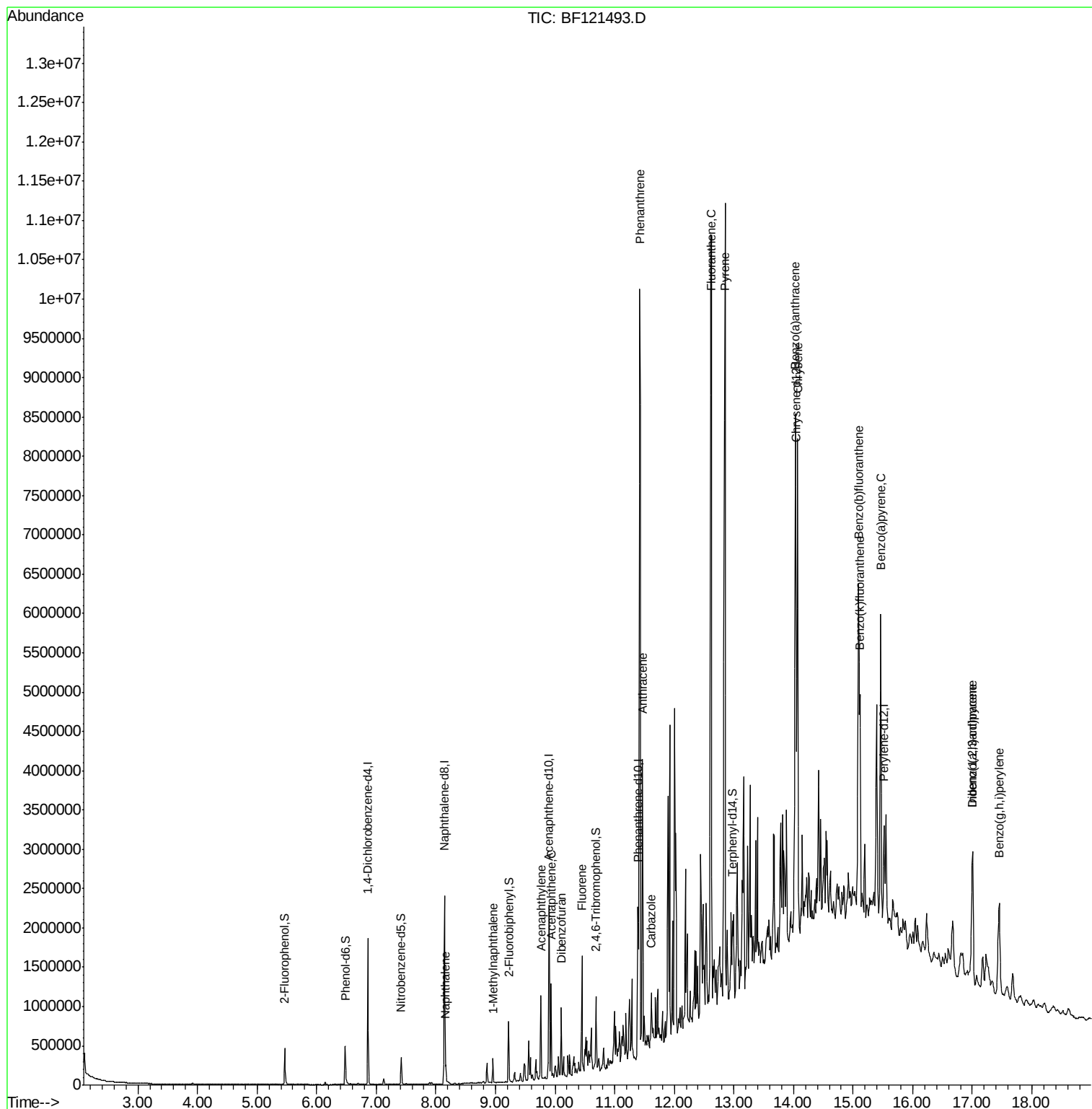
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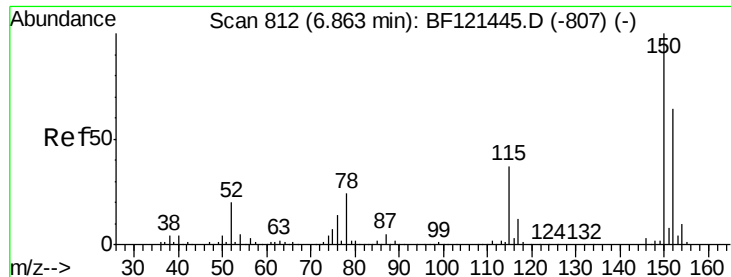
Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

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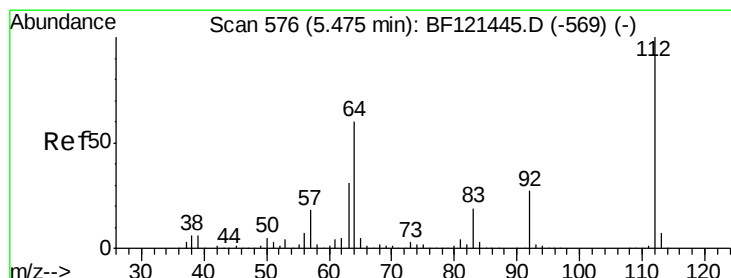
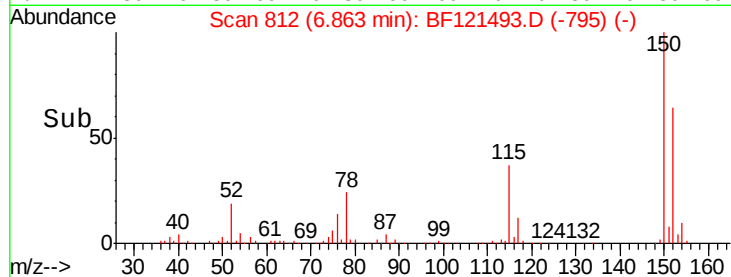
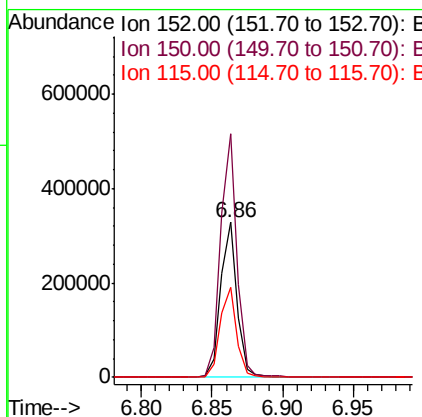
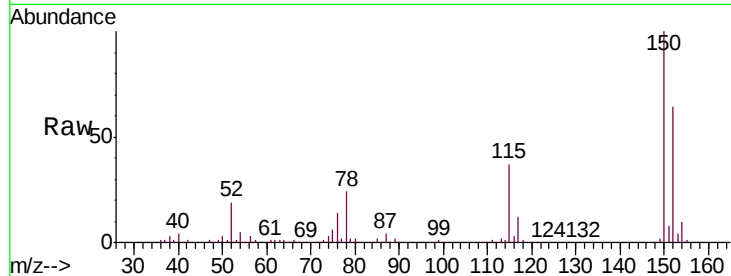
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 812
 Delta R.T. -0.00 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	263645		
150	157.0	125.8	188.6	
115	57.7	46.6	69.8	

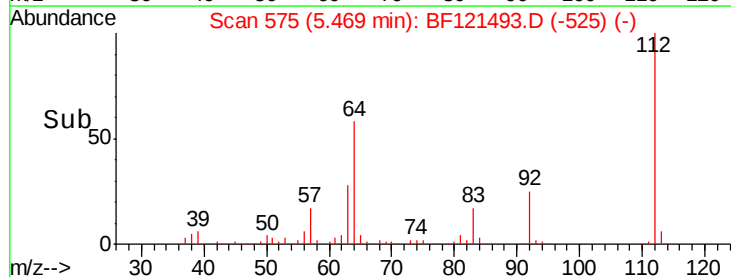
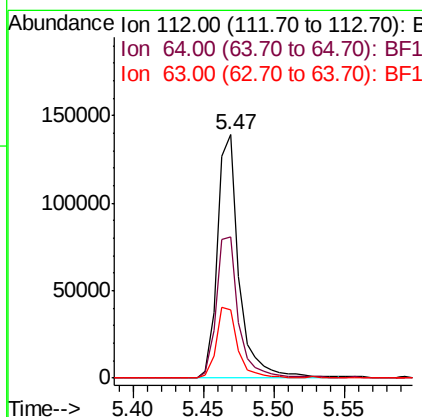
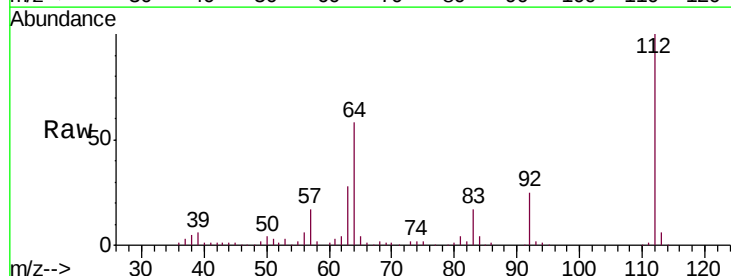
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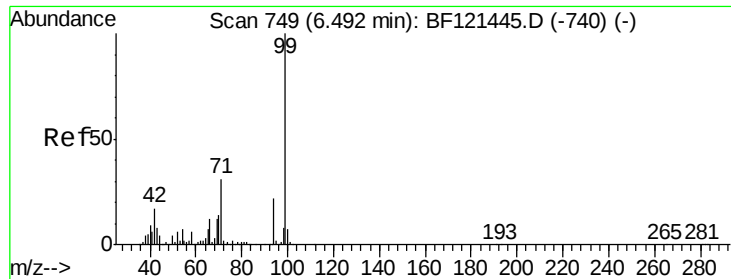
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#5
 2-Fluorophenol
 Concen: 9.448 ng
 RT: 5.47 min Scan# 575
 Delta R.T. -0.01 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	148462		
64	57.9	48.2	72.2	
63	28.2	24.8	37.2	





#7

Phenol-d6

Concen: 9.014 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF121493.D

Acq: 31 Aug 2020 23:06

Instrument :

BNA_F

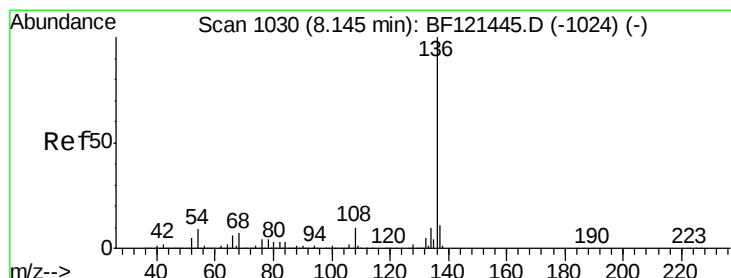
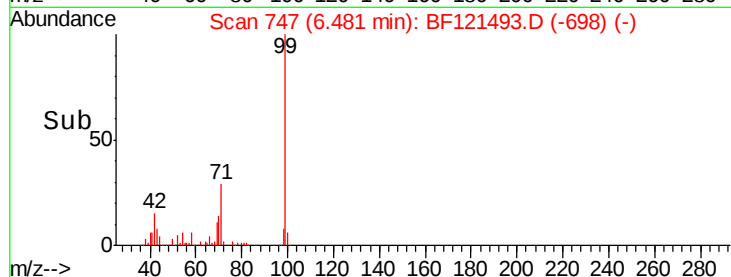
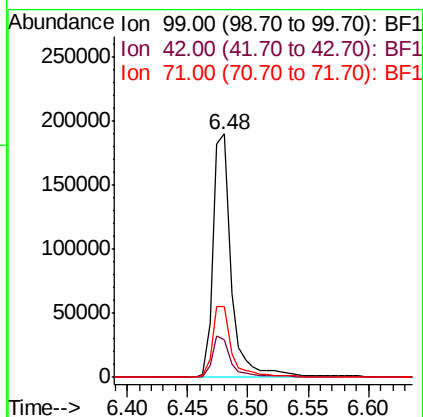
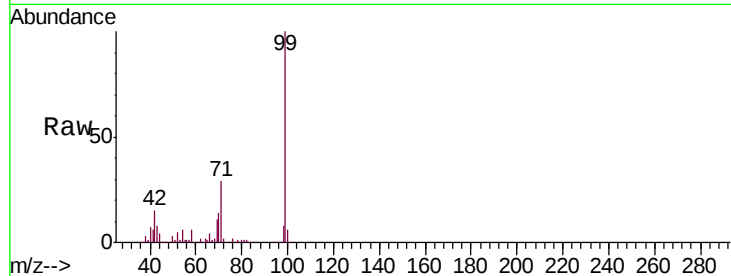
ClientSampleId :

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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		197955		
42	15.2	13.5	20.3		
71	29.3	24.6	37.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

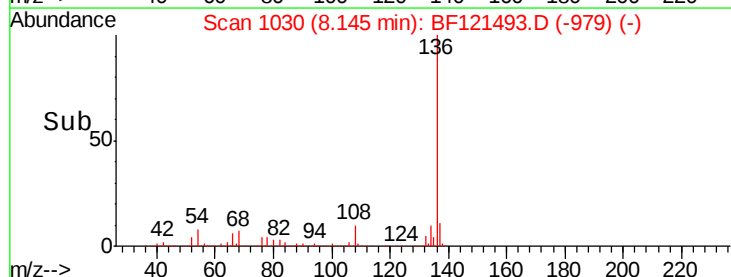
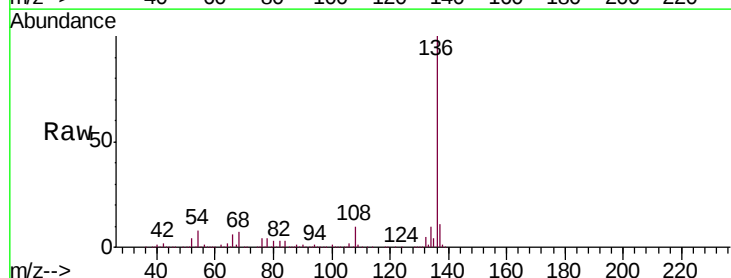
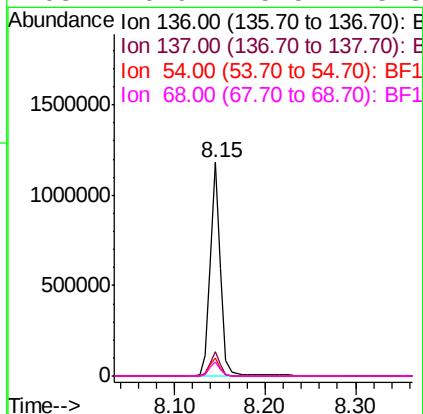
RT: 8.15 min Scan# 1030

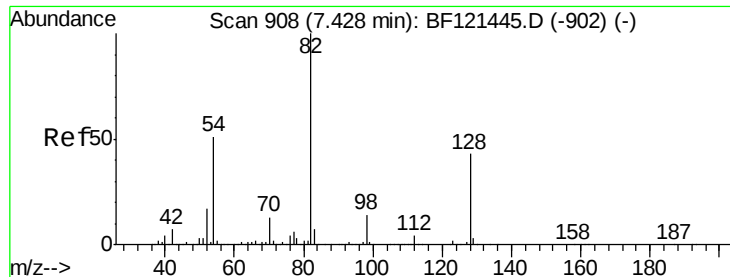
Delta R.T. -0.00 min

Lab File: BF121493.D

Acq: 31 Aug 2020 23:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		967289		
137	11.3	9.1	13.7		
54	8.3	7.0	10.4		
68	6.9	5.5	8.3		





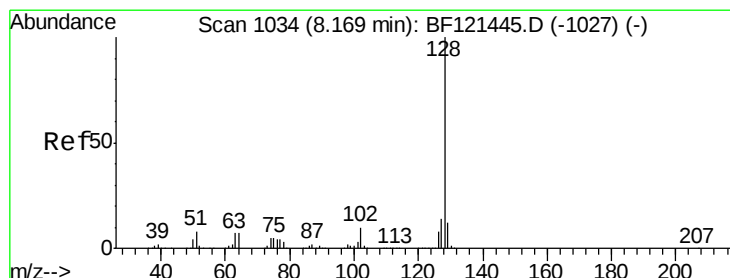
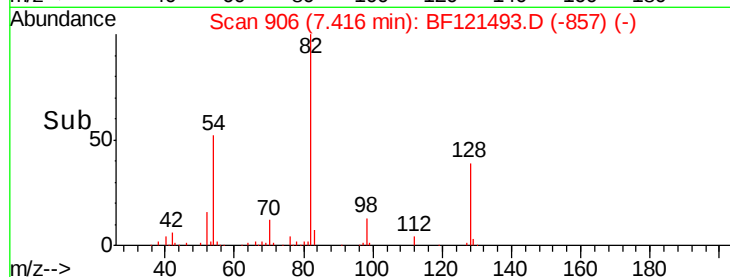
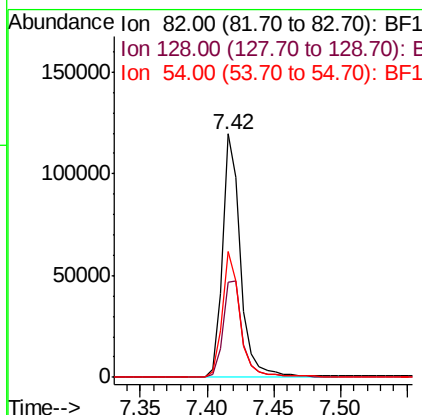
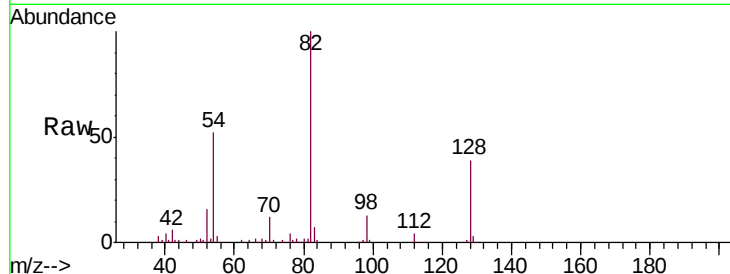
#23
 Nitrobenzene-d5
 Concen: 8.145 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	115240		
128	39.2	34.1	51.1	
54	51.5	41.0	61.6	

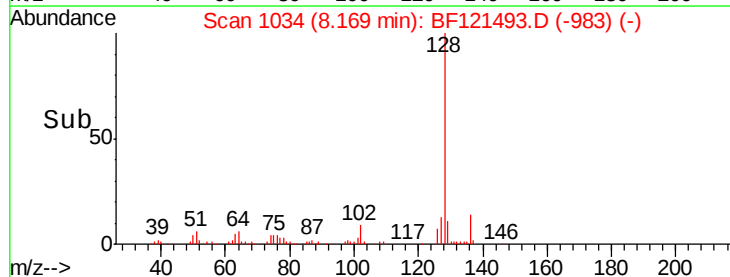
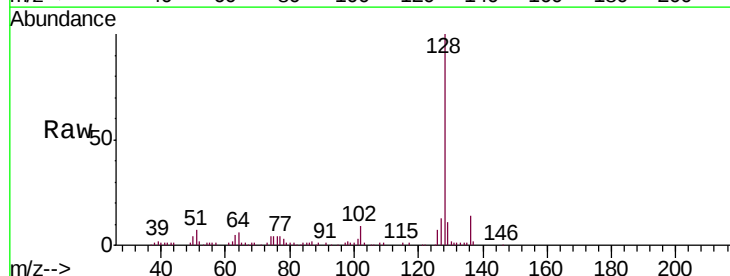
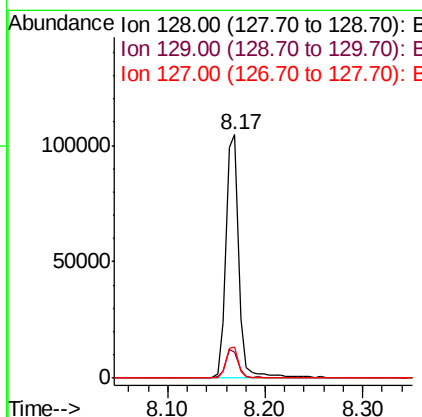
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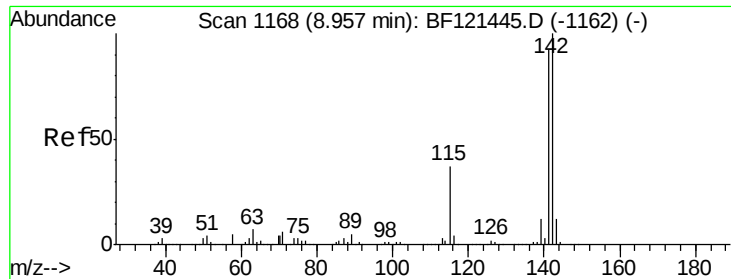
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#31
 Naphthalene
 Concen: 2.022 ng
 RT: 8.17 min Scan# 1034
 Delta R.T. -0.00 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	97080		
129	10.5	9.6	14.4	
127	12.7	11.4	17.2	





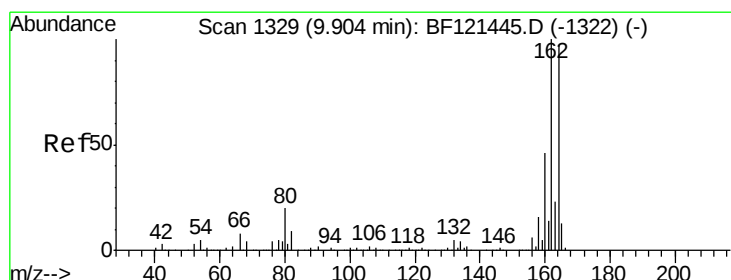
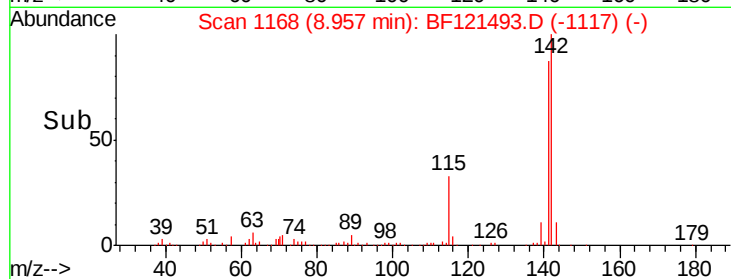
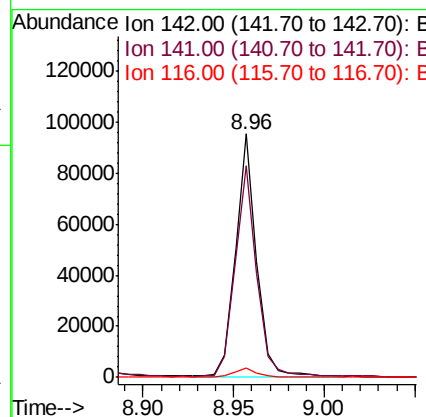
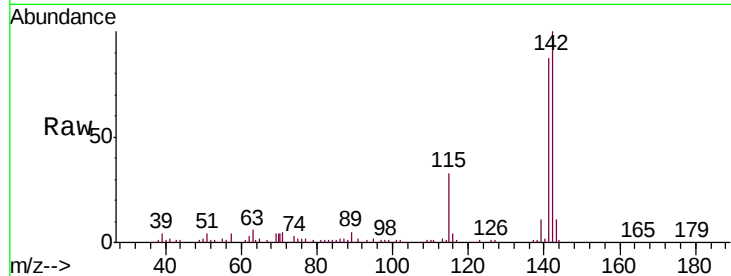
#38
1-Methylnaphthalene
Concen: 2.528 ng
RT: 8.96 min Scan# 1168
Delta R.T. -0.00 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.8	73.7	110.5
116	3.6	3.1	4.7

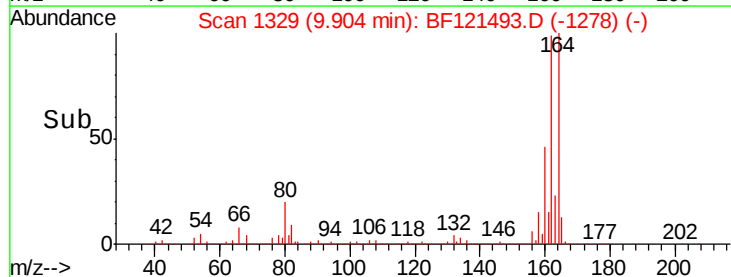
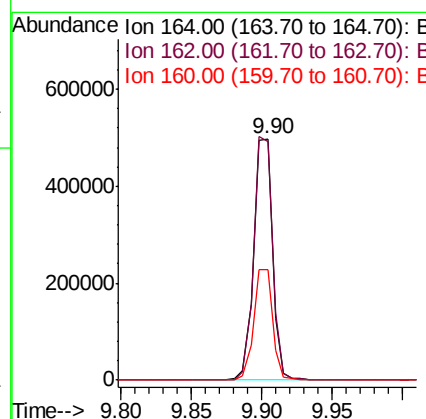
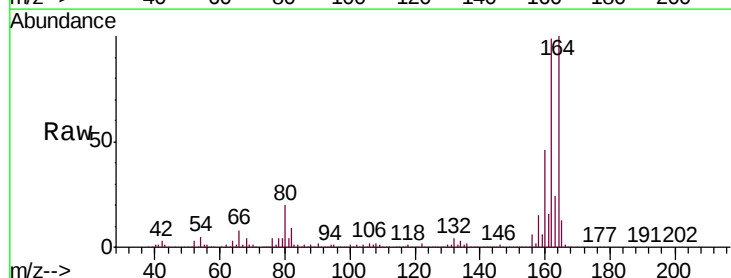
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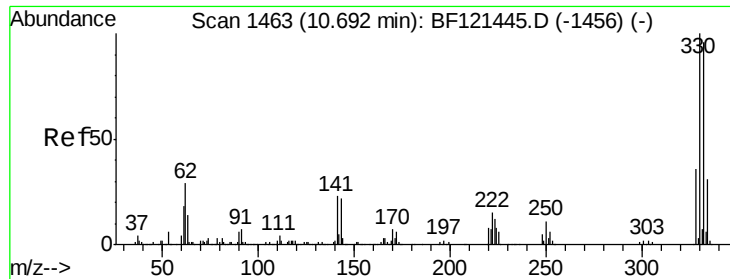
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.00 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.9	82.4	123.6
160	45.5	37.6	56.4





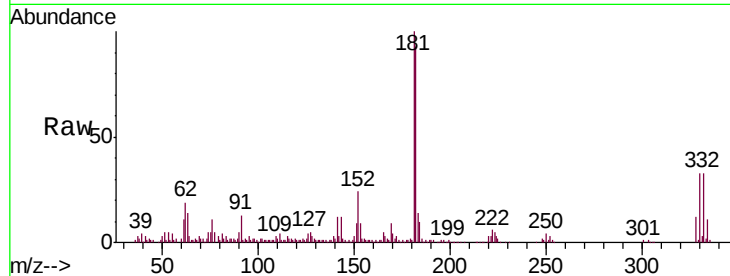
#42
 2,4,6-Tribromophenol
 Concen: 9.496 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	45008		
332	98.0	76.2	114.2	
141	40.6	24.6	36.8	

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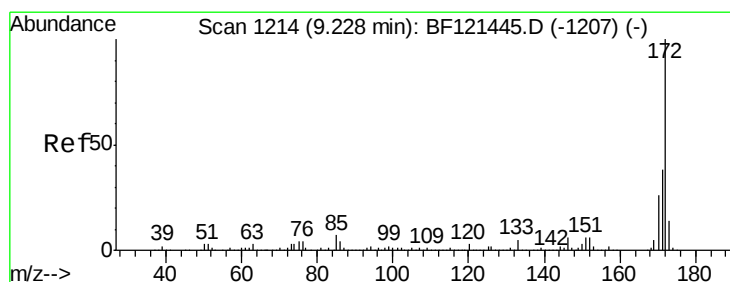
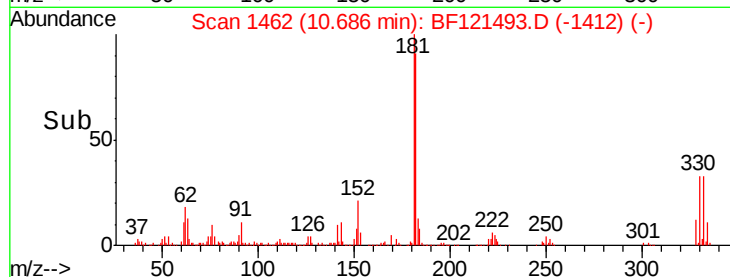
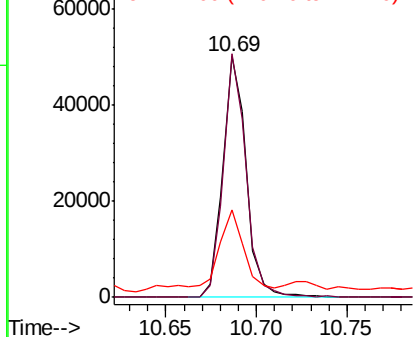


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 8.664 ng
 RT: 9.22 min Scan# 1213
 Delta R.T. -0.01 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

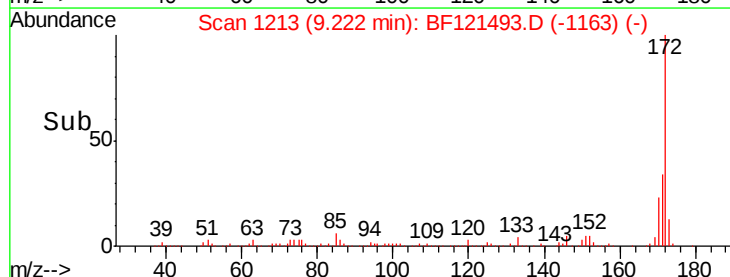
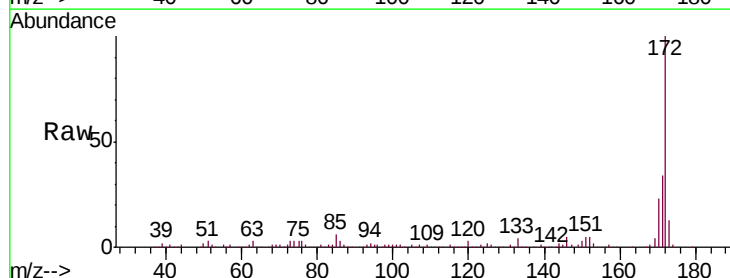
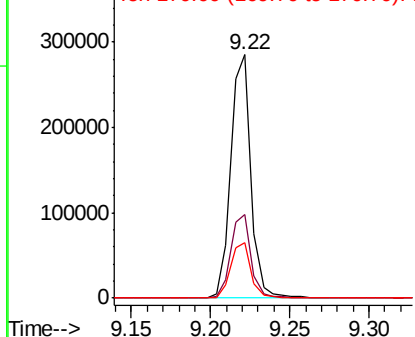
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	251944		
171	34.3	30.6	45.8	
170	22.8	20.6	31.0	

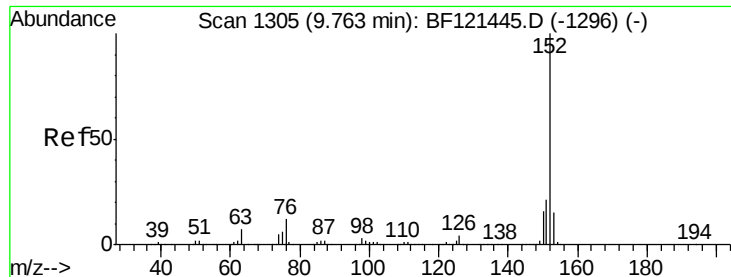
Abundance

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





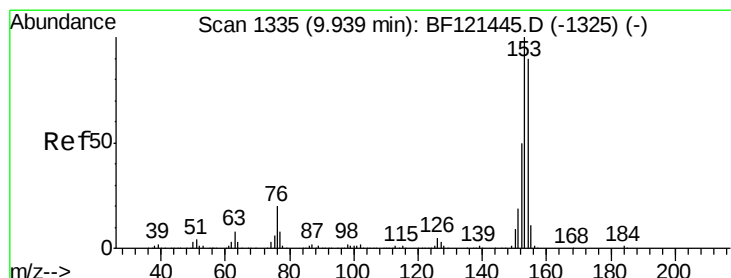
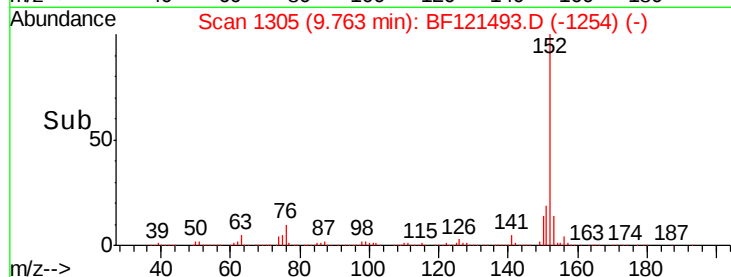
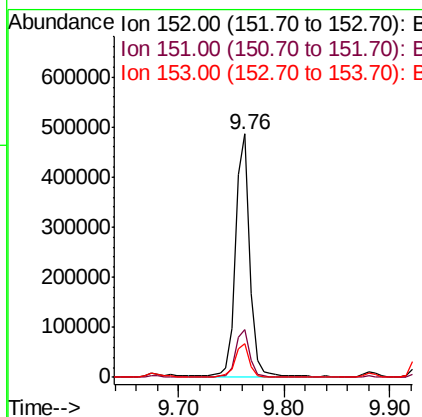
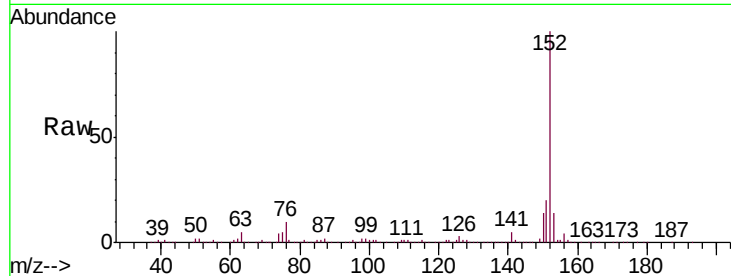
#49
Acenaphthylene
Concen: 10.070 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion:	152	Resp:	439611
Ion Ratio	Lower	Upper	
152	100		
151	19.5	17.2	25.8
153	13.8	11.6	17.4

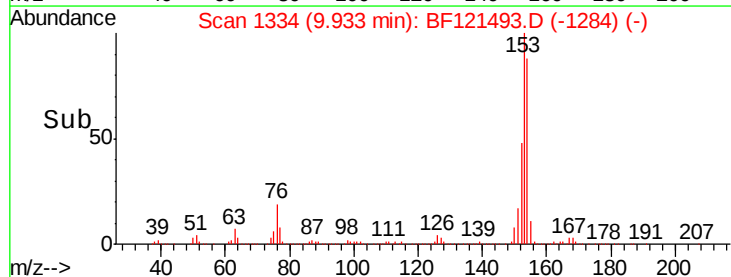
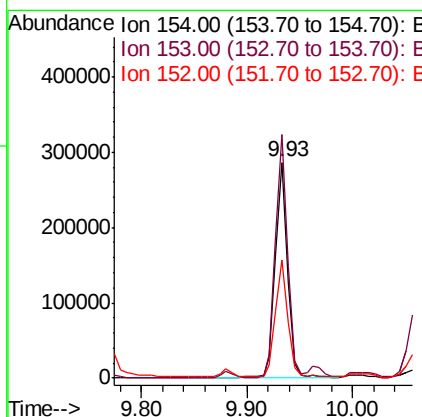
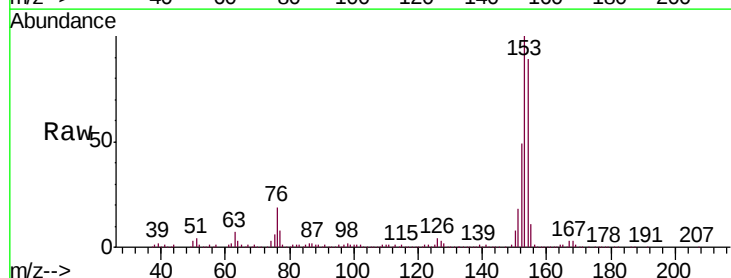
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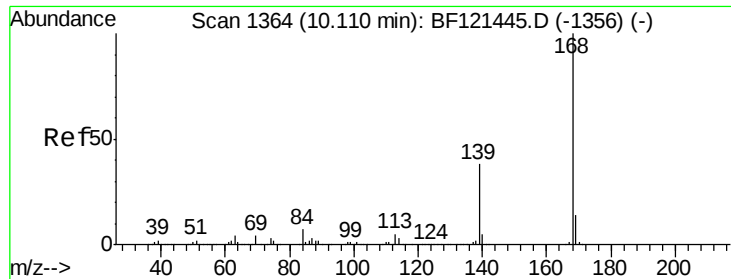
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#52
Acenaphthene
Concen: 8.381 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.01 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion:	154	Resp:	231020
Ion Ratio	Lower	Upper	
154	100		
153	112.9	88.9	133.3
152	55.0	44.1	66.1





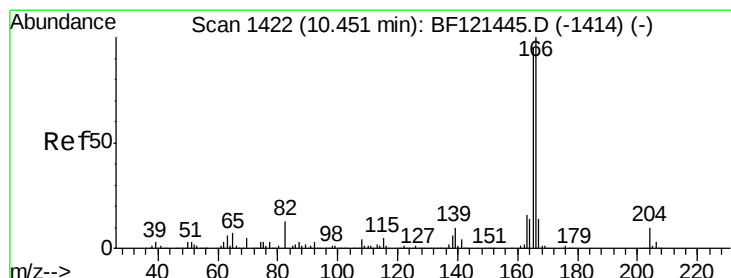
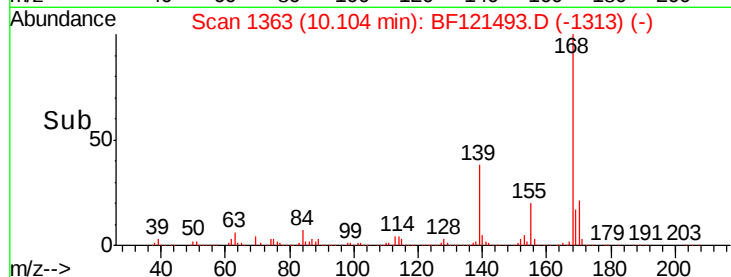
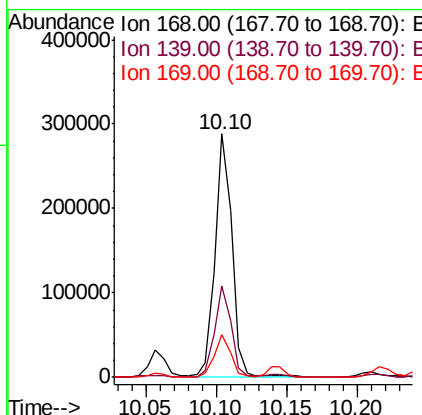
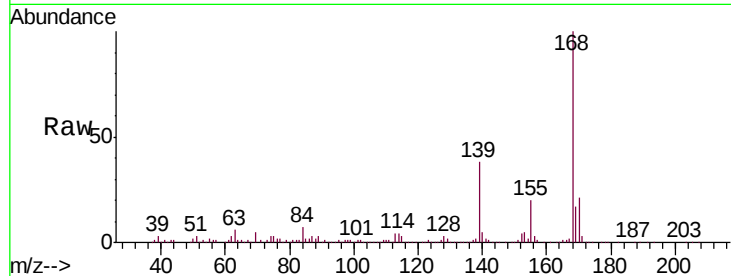
#55
Dibenzofuran
Concen: 5.998 ng
RT: 10.10 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Resp Lower	Resp Upper
168	100		
139	37.6	30.1	45.1
169	17.3	11.2	16.8

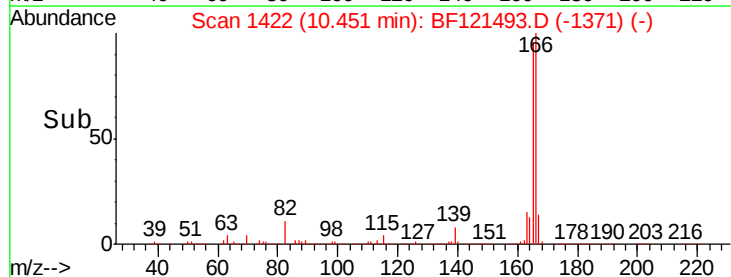
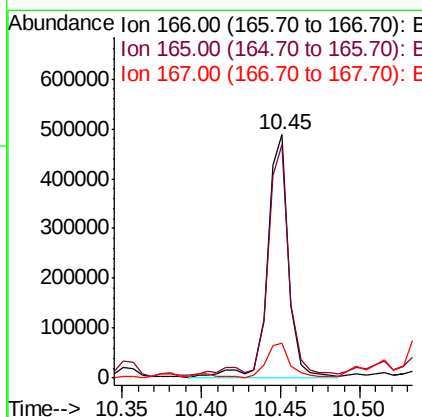
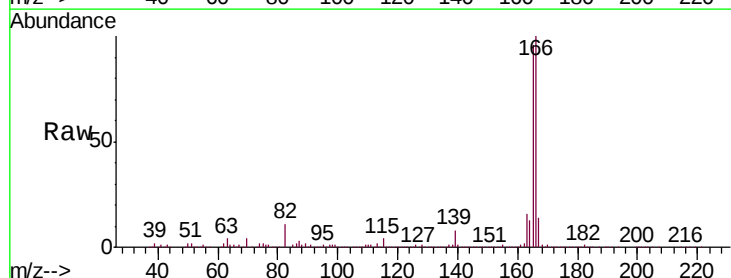
Manual Integrations
APPROVED

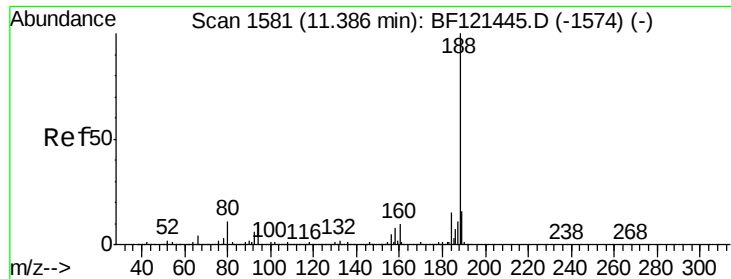
mohammad
9/2/2020 1:56:36 PM



#58
Fluorene
Concen: 14.915 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.00 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Resp Lower	Resp Upper
166	100		
165	95.8	75.7	113.5
167	14.2	11.1	16.7





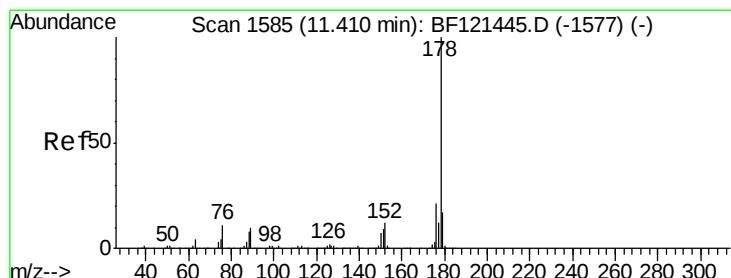
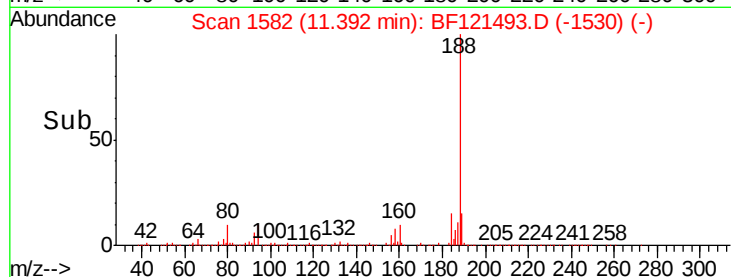
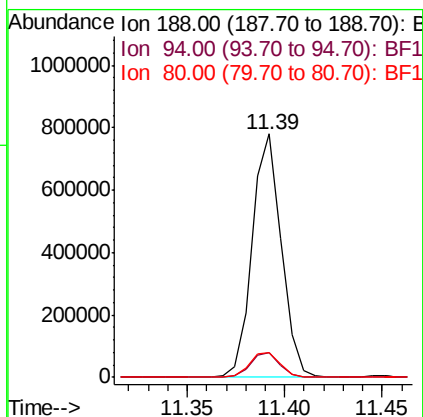
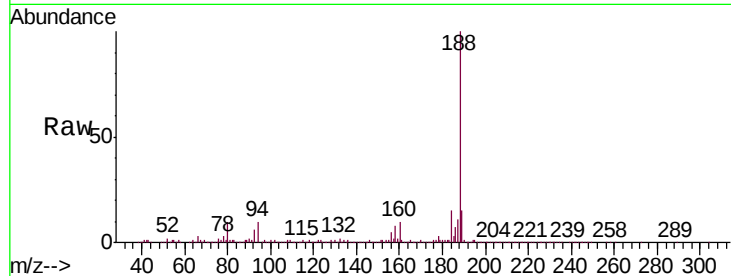
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	801129		
94	9.9	8.3	12.5	
80	10.4	8.6	13.0	

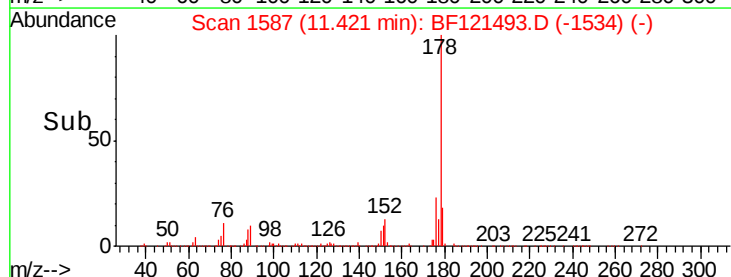
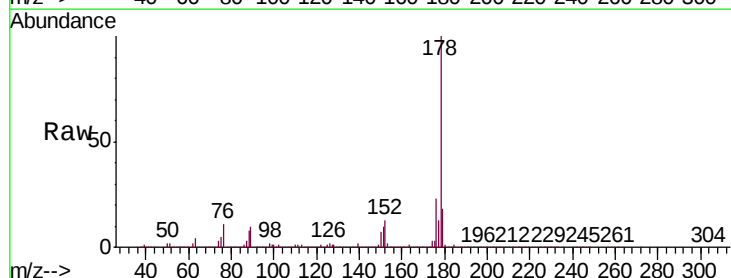
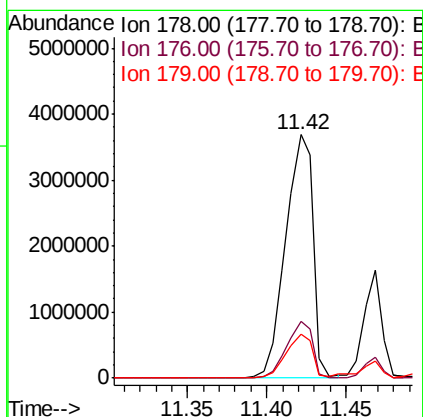
Manual Integrations
APPROVED

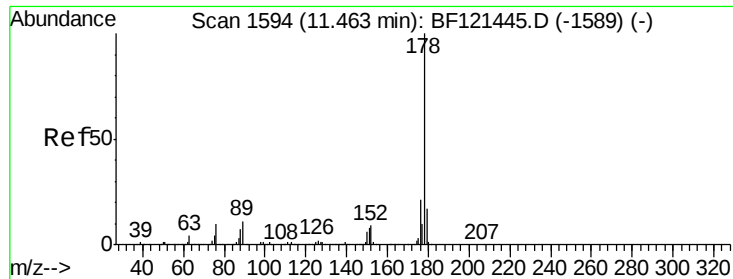
mohammad
9/2/2020 1:56:36 PM



#71
Phenanthrene
Concen: 107.441 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	4417148		
176	23.2	16.9	25.3	
179	18.1	13.4	20.0	





#72

Anthracene

Concen: 31.140 ng

RT: 11.47 min Scan# 1595

Delta R.T. 0.01 min

Lab File: BF121493.D

Acq: 31 Aug 2020 23:06

Instrument :

BNA_F

ClientSampleId :

LINDEN-JOP-BH-09-B

Tgt Ion:178 Resp: 1259165

Ion Ratio Lower Upper

178 100

176 19.4 16.7 25.1

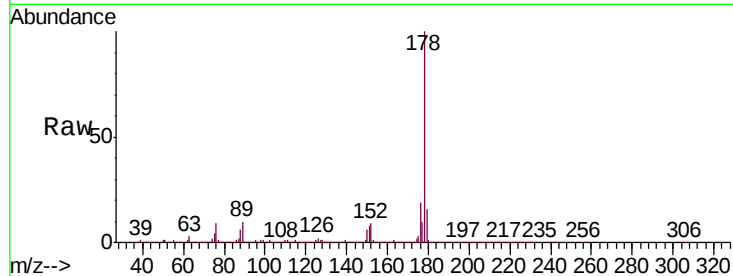
179 16.0 13.4 20.2

Manual Integrations

APPROVED

mohammad

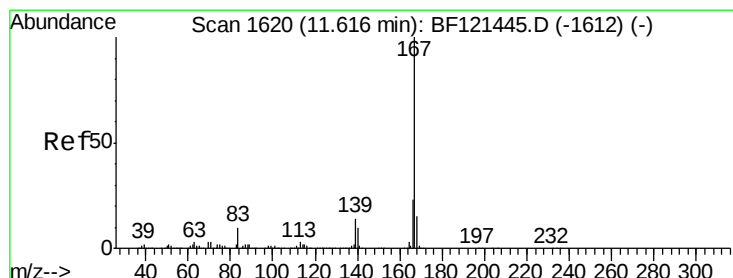
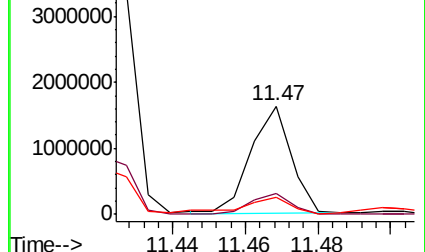
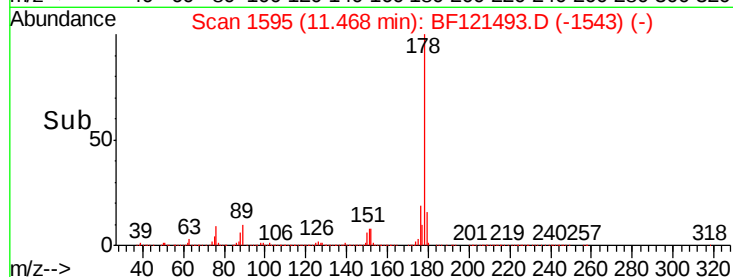
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Abundance Ion 178.00 (177.70 to 178.70): E

5000000 Ion 176.00 (175.70 to 176.70): E

4000000 Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 6.163 ng

RT: 11.62 min Scan# 1620

Delta R.T. -0.00 min

Lab File: BF121493.D

Acq: 31 Aug 2020 23:06

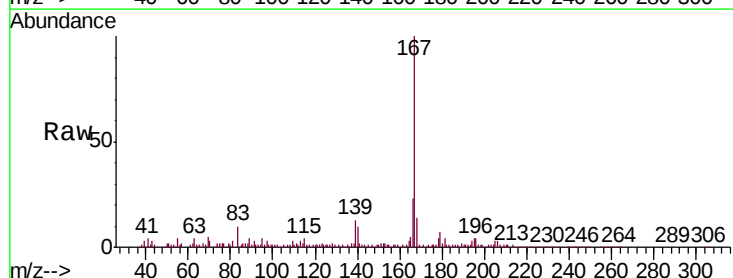
Tgt Ion:167 Resp: 240295

Ion Ratio Lower Upper

167 100

166 22.7 18.4 27.6

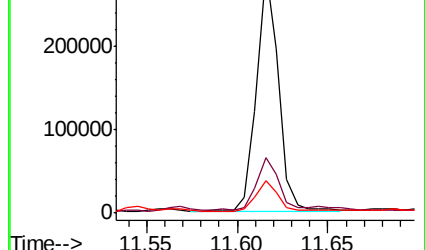
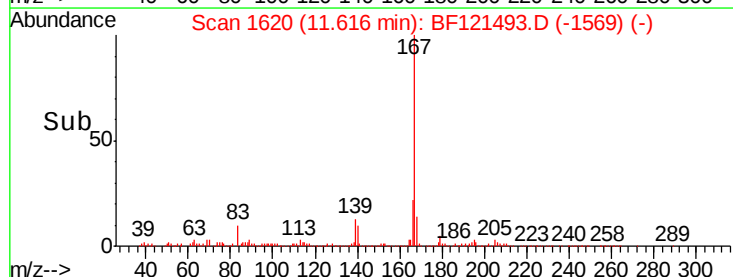
139 13.4 11.0 16.6

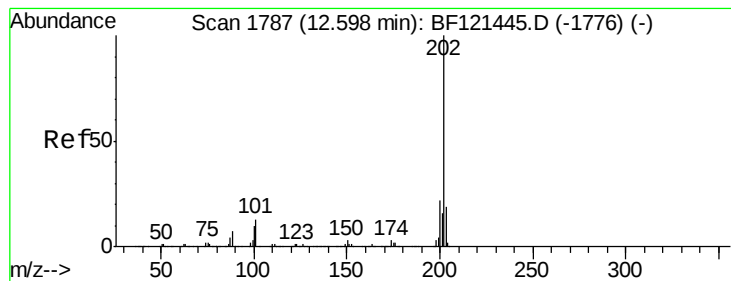


Abundance Ion 167.00 (166.70 to 167.70): E

400000 Ion 166.00 (165.70 to 166.70): E

300000 Ion 139.00 (138.70 to 139.70): E





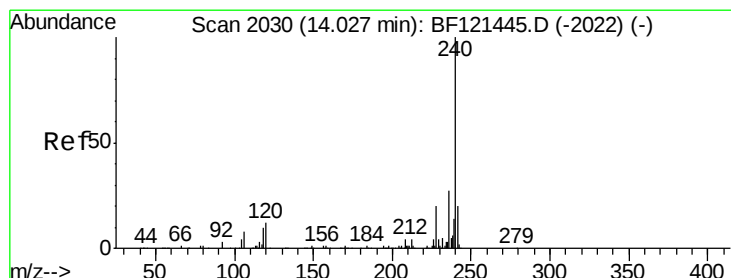
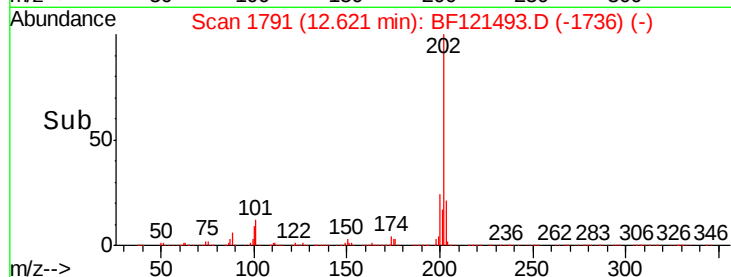
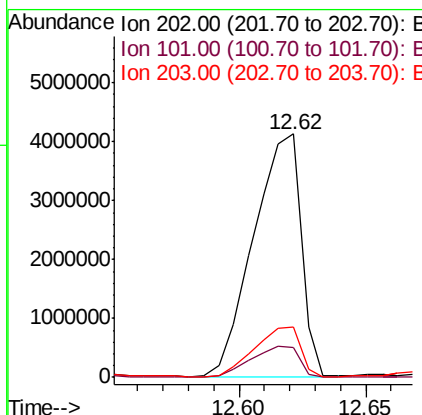
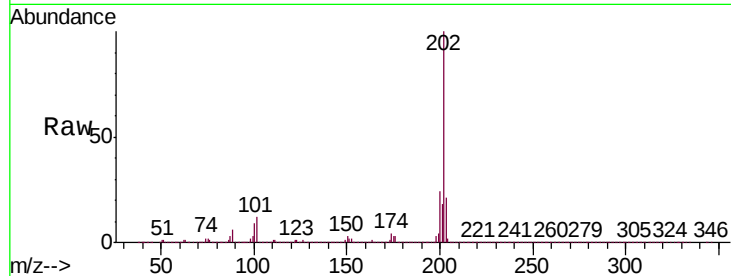
#75
 Fluoranthene
 Concen: 120.570 ng
 RT: 12.62 min Scan# 1791
 Delta R.T. 0.02 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	33.3
203	20.7	0.0	39.1

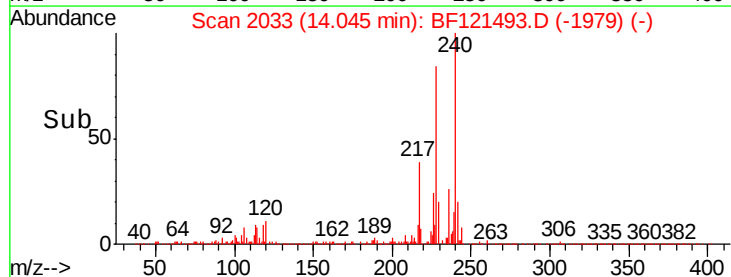
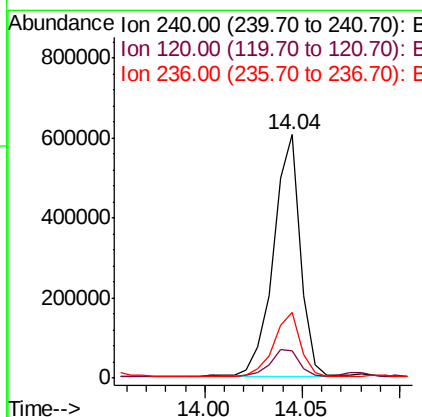
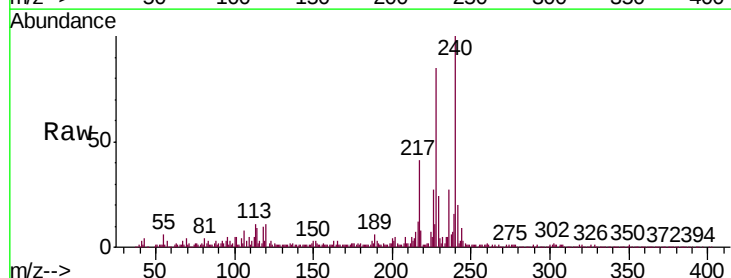
Manual Integrations
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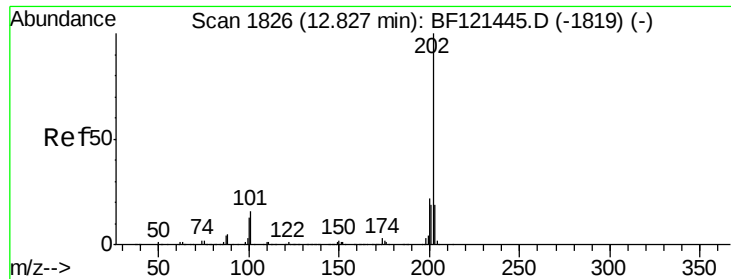
mohammad
 9/2/2020 1:56:36 PM



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.04 min Scan# 2033
 Delta R.T. 0.02 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.5	14.3
236	26.8	21.8	32.6





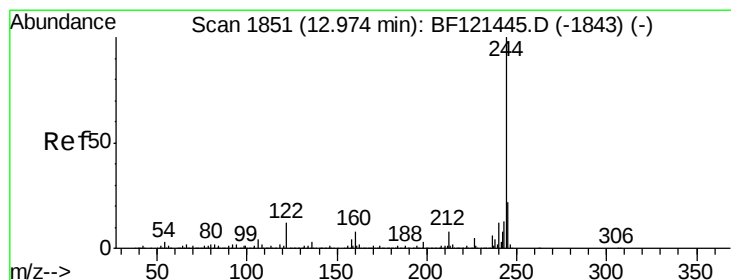
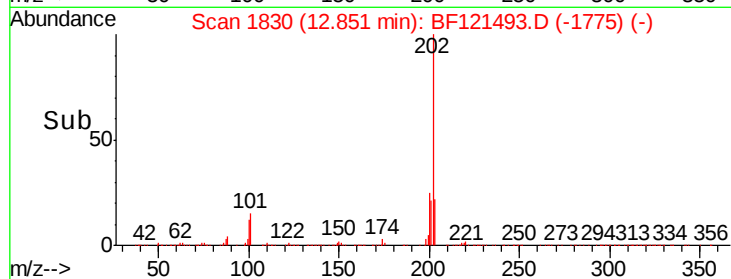
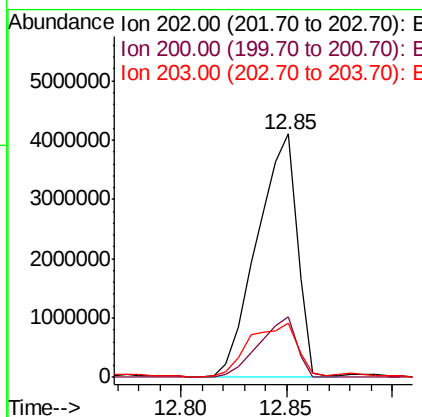
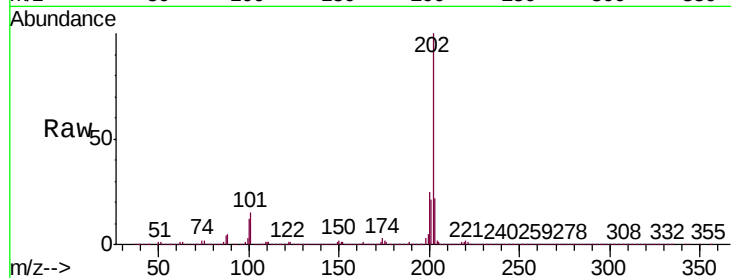
#78
 Pyrene
 Concen: 129.969 ng
 RT: 12.85 min Scan# 1830
 Delta R.T. 0.02 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Lower	Upper
202	100		
200	24.9	18.0	27.0
203	22.3	15.3	22.9

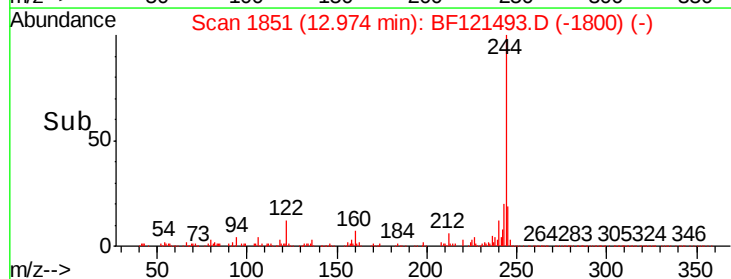
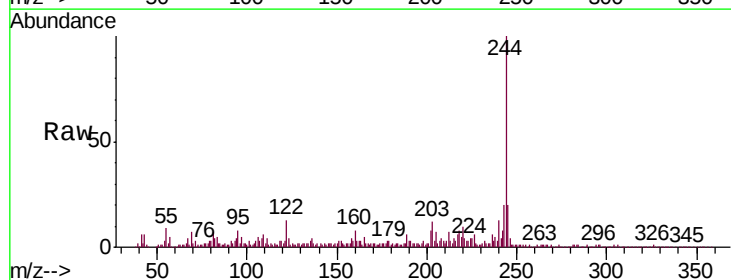
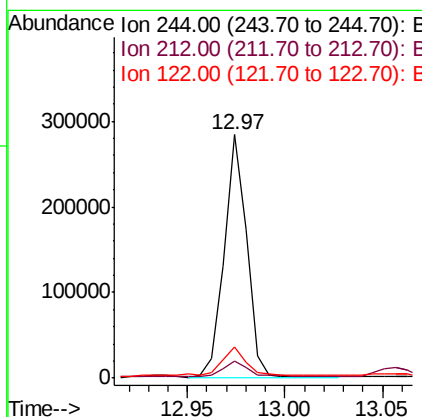
Manual Integrations
 APPROVED

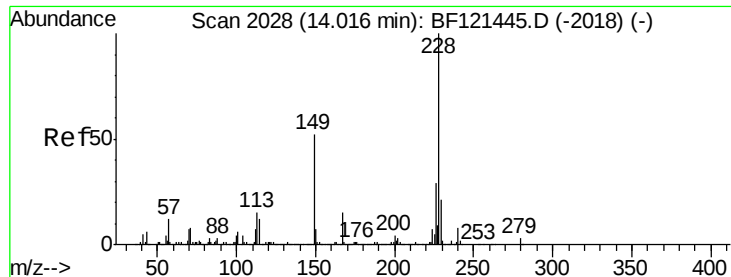
mohammad
 9/2/2020 1:56:36 PM



#79
 Terphenyl-d14
 Concen: 8.173 ng
 RT: 12.97 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.3	9.5
122	12.7	9.5	14.3





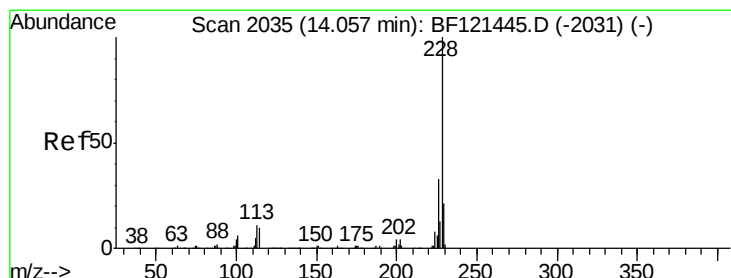
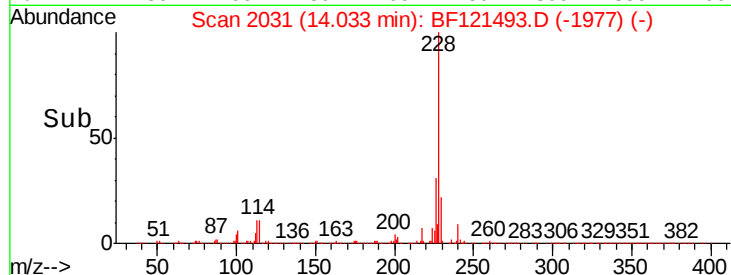
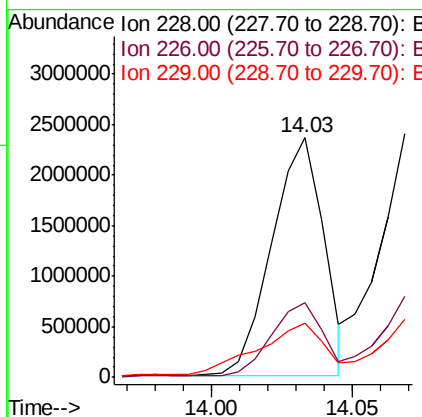
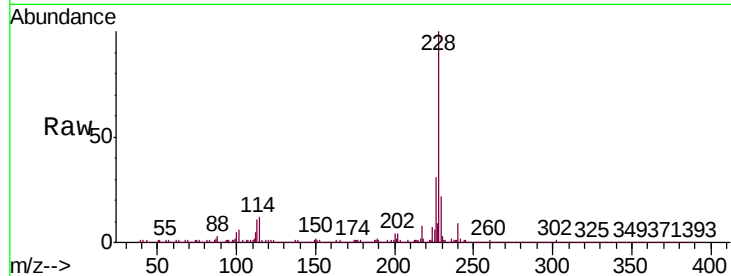
#81
Benzo(a)anthracene
Concen: 84.527 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.02 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion: 228 Resp: 2993821
Ion Ratio Lower Upper
228 100
226 31.1 23.0 34.4
229 22.4 16.6 24.8

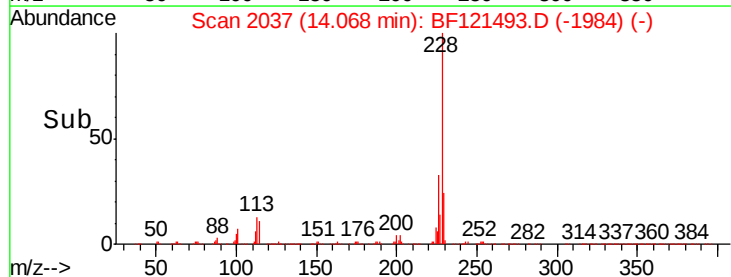
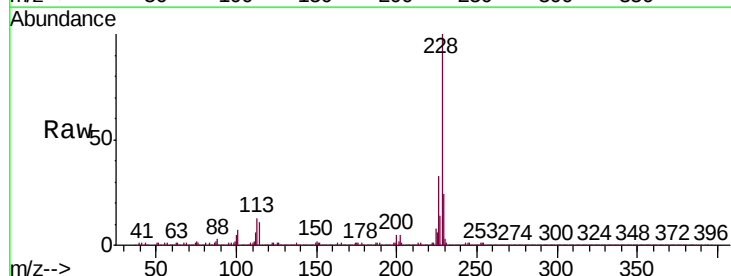
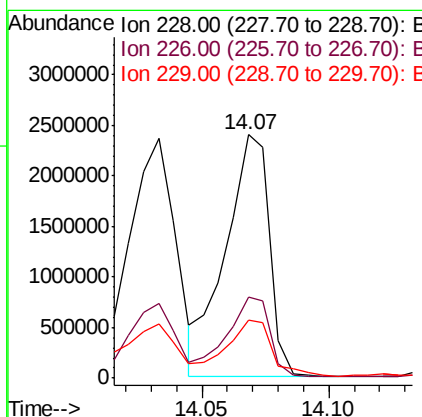
Manual Integrations
APPROVED

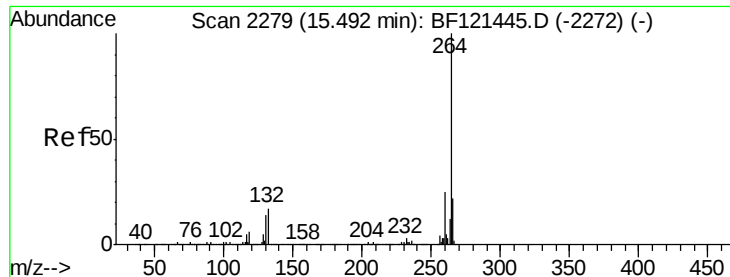
mohammad
9/2/2020 1:56:36 PM



#83
Chrysene
Concen: 81.512 ng m
RT: 14.07 min Scan# 2037
Delta R.T. 0.01 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion: 228 Resp: 2888382
Ion Ratio Lower Upper
228 100
226 33.2 26.2 39.2
229 24.1 16.6 25.0





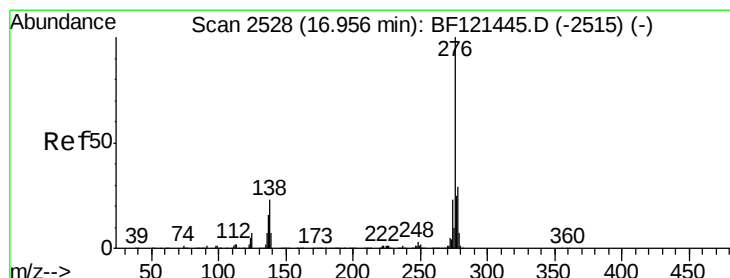
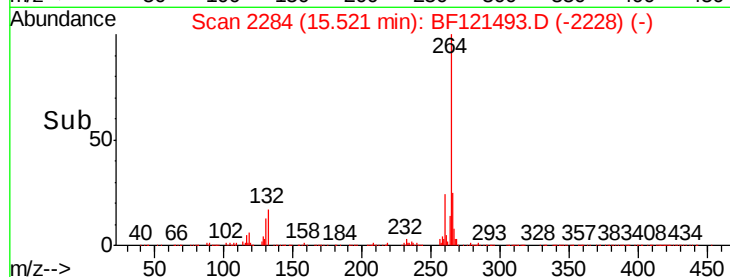
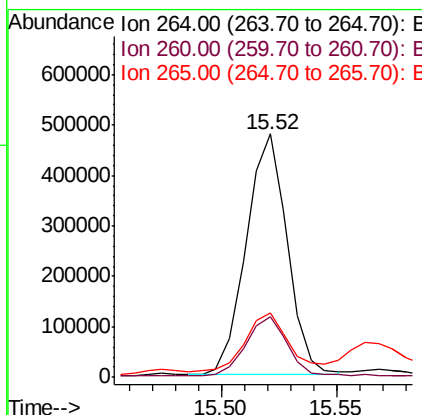
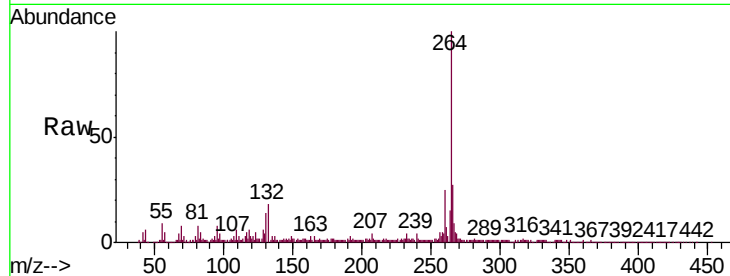
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2284
Delta R.T. 0.03 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.6	29.4
265	26.5	17.8	26.6

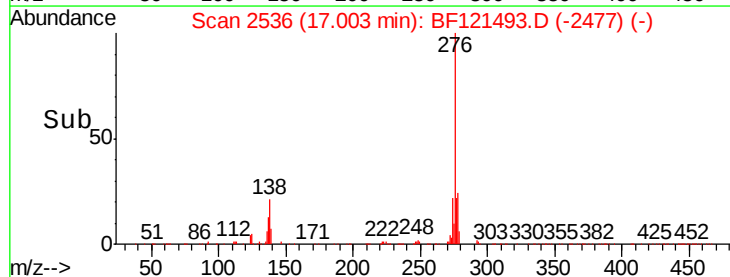
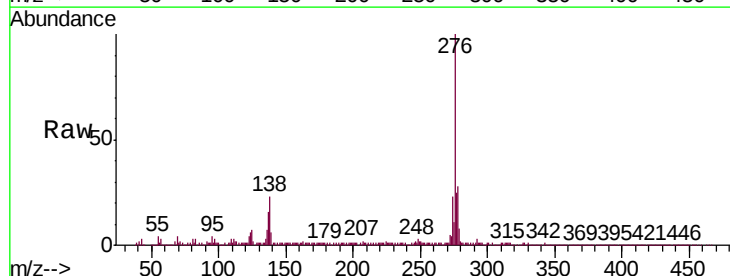
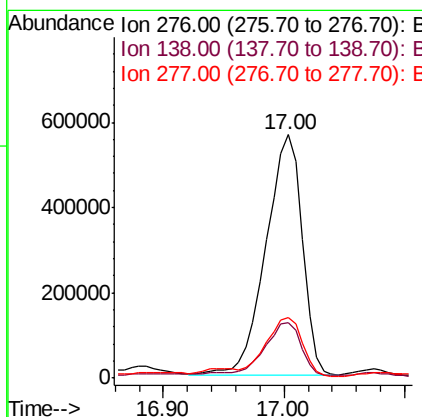
Manual Integrations
APPROVED

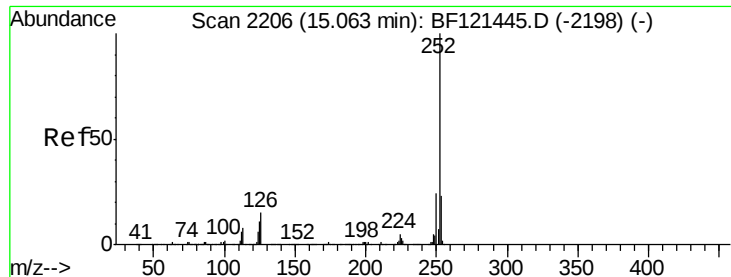
mohammad
9/2/2020 1:56:36 PM



#87
Indeno(1,2,3-cd)pyrene
Concen: 32.276 ng
RT: 17.00 min Scan# 2536
Delta R.T. 0.05 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.0	20.6	31.0
277	24.4	20.5	30.7





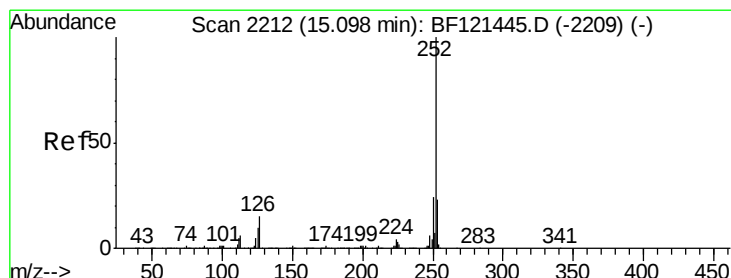
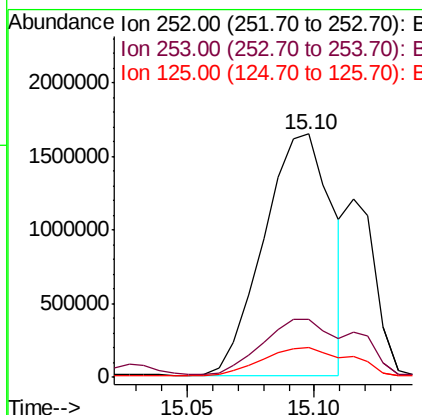
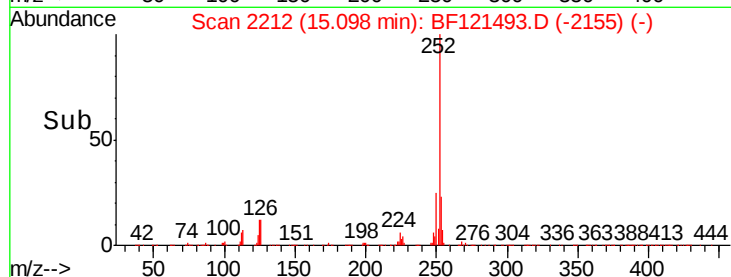
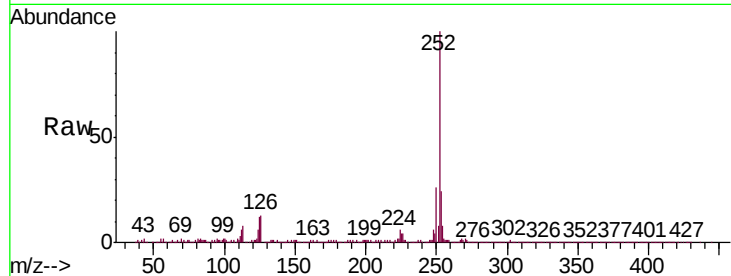
#88
Benzo(b)fluoranthene
Concen: 80.294 ng m
RT: 15.10 min Scan# 2212
Delta R.T. 0.04 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.3	27.5
125	12.2	9.2	13.8

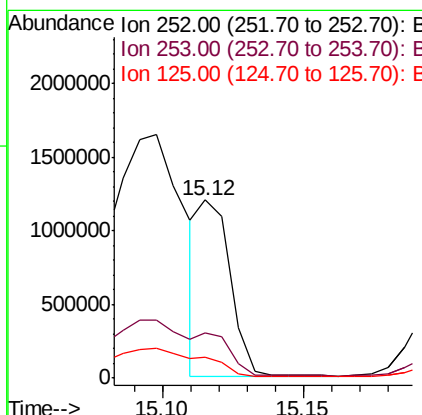
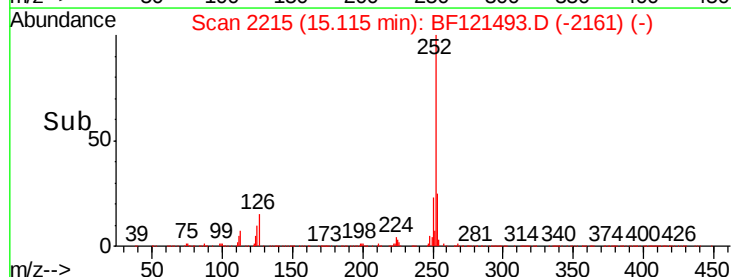
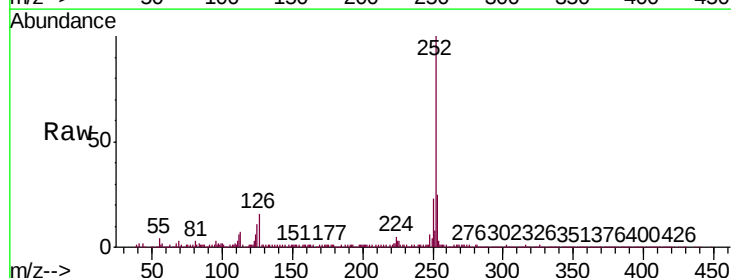
Manual Integrations
APPROVED

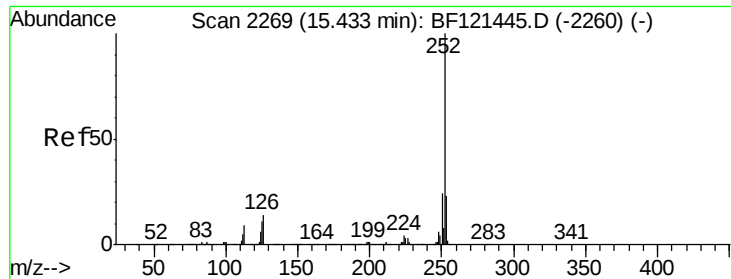
mohammad
9/2/2020 1:56:36 PM



#89
Benzo(k)fluoranthene
Concen: 26.129 ng m
RT: 15.12 min Scan# 2215
Delta R.T. 0.02 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	18.3	27.5
125	11.4	8.5	12.7





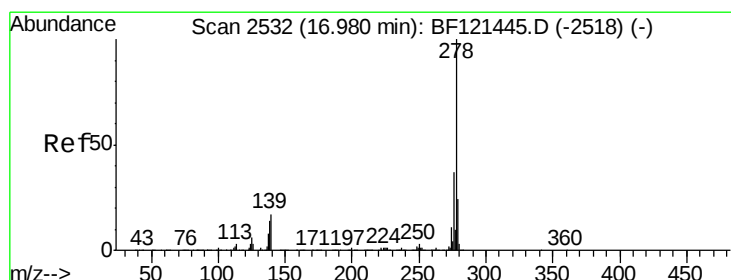
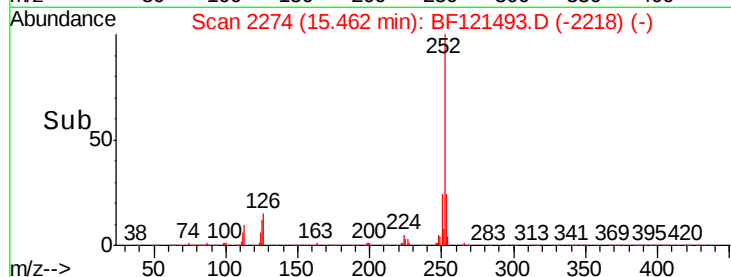
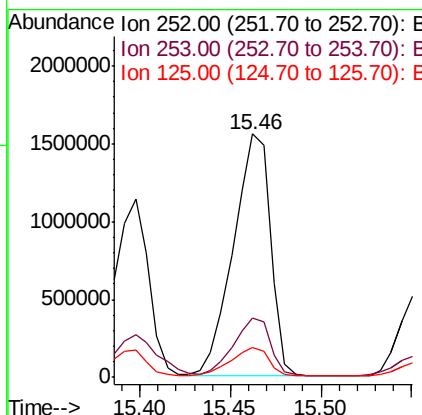
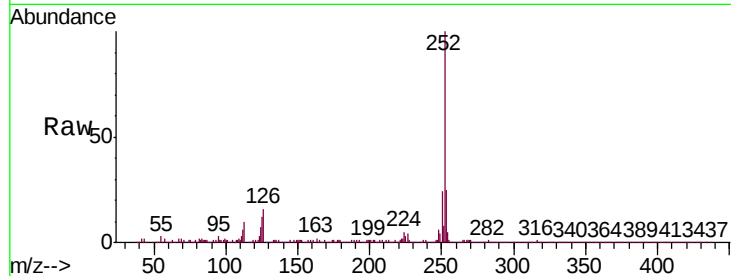
#90
Benzo(a)pyrene
Concen: 64.290 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.03 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.0	27.0
125	12.4	9.0	13.4

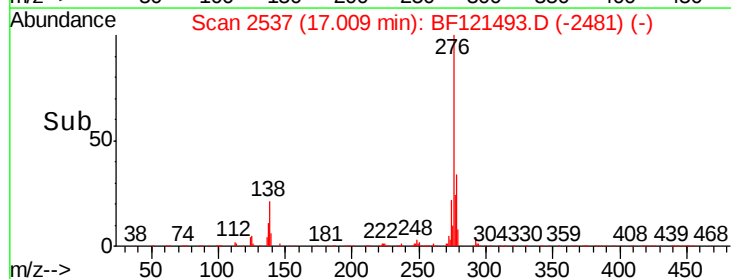
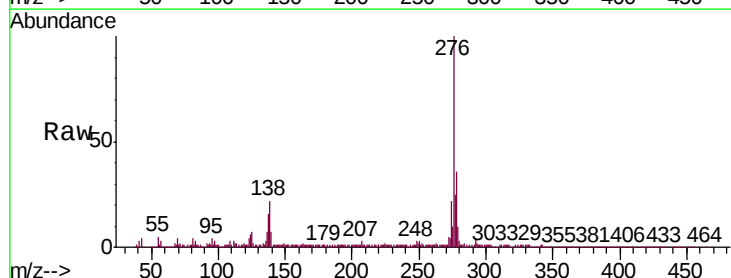
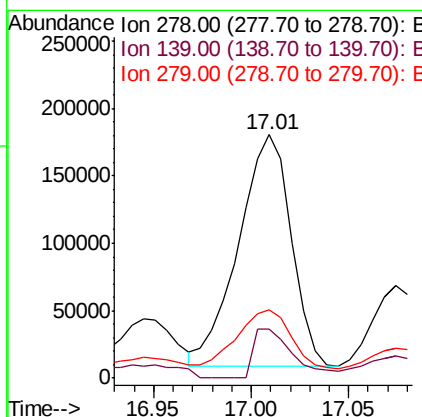
Manual Integrations
APPROVED

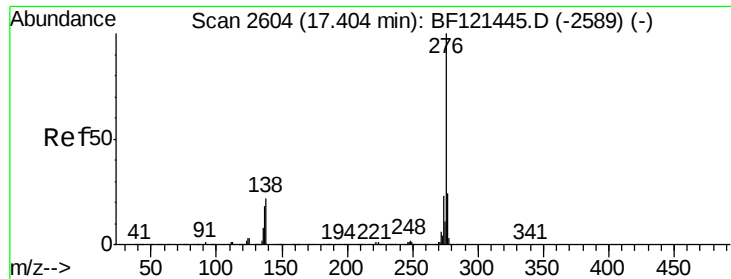
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 10.770 ng m
RT: 17.01 min Scan# 2537
Delta R.T. 0.03 min
Lab File: BF121493.D
Acq: 31 Aug 2020 23:06

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.1	13.3	19.9#
279	28.2	19.4	29.0





#92
 Benzo(g,h,i)perylene
 Concen: 37.467 ng
 RT: 17.45 min Scan# 2612
 Delta R.T. 0.05 min
 Lab File: BF121493.D
 Acq: 31 Aug 2020 23:06

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-B

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.9	28.3
138	23.6	17.4	26.0

Manual Integrations
 APPROVED

mohammad
 9/2/2020 1:56:36 PM

