

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
 Data File : BF095560.D
 Acq On : 31 May 2017 10:07
 Operator : SJ/MA
 Sample : I3281-10DL 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2DL

Manual Integrations
 APPROVED

mohammad
 5/31/2017 5:03:11 PM

Quant Time: May 31 14:40:08 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	90230	20.00	ng	0.00
21) Naphthalene-d8	9.77	136	348305	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	133865	20.00	ng	0.00
63) Phenanthrene-d10	14.99	188	201250	20.00	ng	0.00
75) Chrysene-d12	18.67	240	212370	20.00	ng	0.00
86) Perylene-d12	20.35	264	144931	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.72	112	302295	55.86	ng	0.02
7) Phenol-d6	7.31	99	346345	53.34	ng	0.02
23) Nitrobenzene-d5	8.65	82	196265	35.53	ng	0.00
41) 2,4,6-Tribromophenol	13.90	330	51749	47.20	ng	0.00
44) 2-Fluorobiphenyl	11.54	172	394028	42.37	ng	0.00
78) Terphenyl-d14	17.31	244	278663	28.90	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.80	128	45464	2.60	ng	97
37) 2-Methylnaphthalene	10.94	142	24297	2.11	ng	93
49) Dimethylphthalate	12.24	163	92159	8.39	ng	# 97
51) Acenaphthene	12.65	154	41776	4.91	ng	96
54) Dibenzofuran	12.95	168	42812	3.63	ng	98
57) Fluorene	13.49	166	41636	4.06	ng	95
70) Phenanthrene	15.03	178	540329	46.73	ng	99
71) Anthracene	15.12	178	130912	11.08	ng	95
72) Carbazole	15.42	167	46073	4.29	ng	99
74) Fluoranthene	16.78	202	681719	57.47	ng	98
77) Pyrene	17.08	202	623116	39.23	ng	96
80) Benzo(a)anthracene	18.66	228	283635	22.95	ng	97
82) Chrysene	18.71	228	278172	23.28	ng	99
85) Indeno(1,2,3-cd)pyrene	21.69	276	87789	9.05	ng	93
87) Benzo(b)fluoranthene	19.95	252	278526m	31.10	ng	
88) Benzo(k)fluoranthene	19.97	252	78280m	9.06	ng	
89) Benzo(a)pyrene	20.30	252	176639	21.38	ng	98
90) Dibenzo(a,h)anthracene	21.69	278	25230	3.70	ng	# 85
91) Benzo(g,h,i)perylene	22.08	276	83015	12.40	ng	96

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

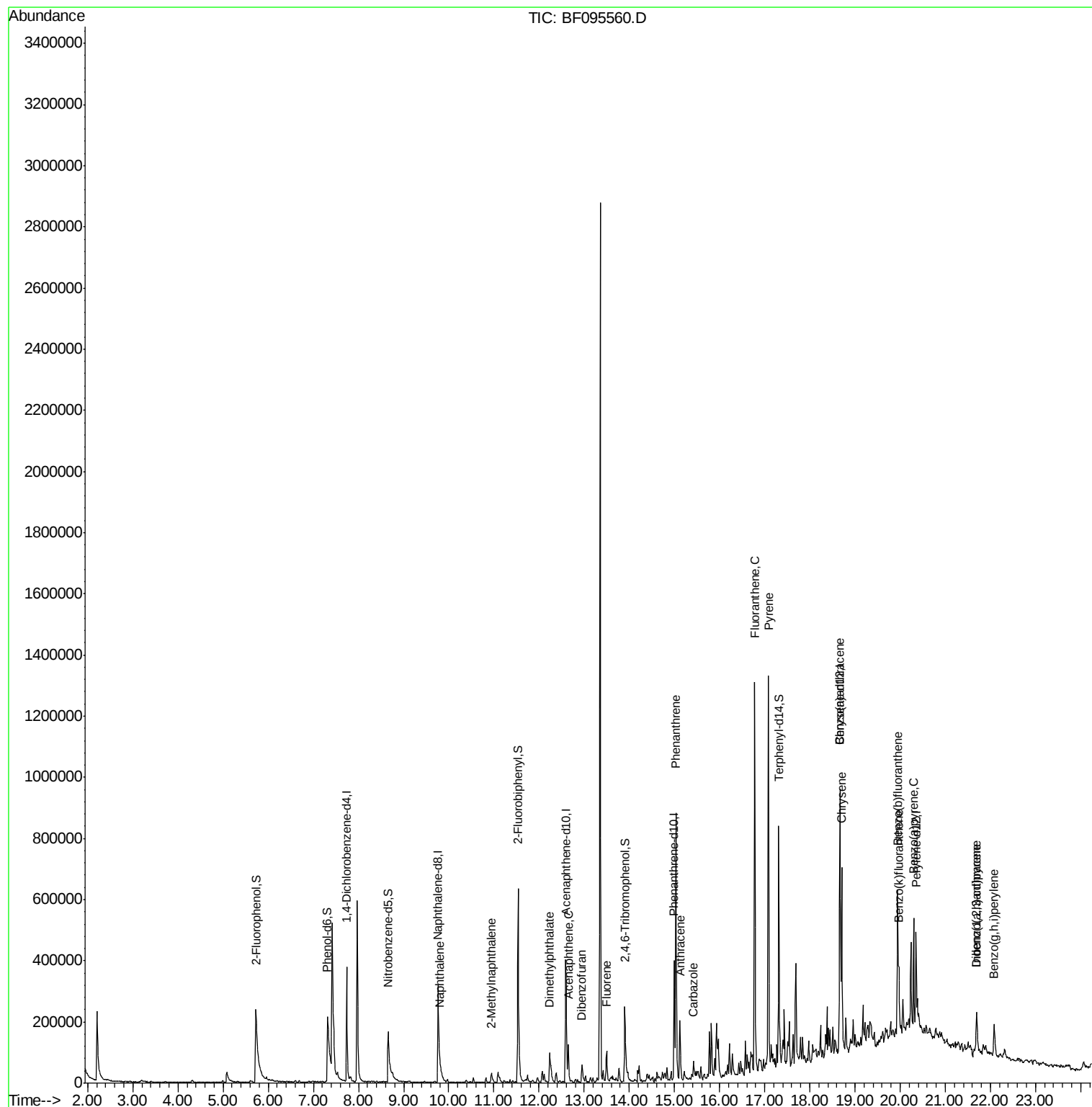
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
Data File : BF095560.D
Acq On : 31 May 2017 10:07
Operator : SJ/MA
Sample : I3281-10DL 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

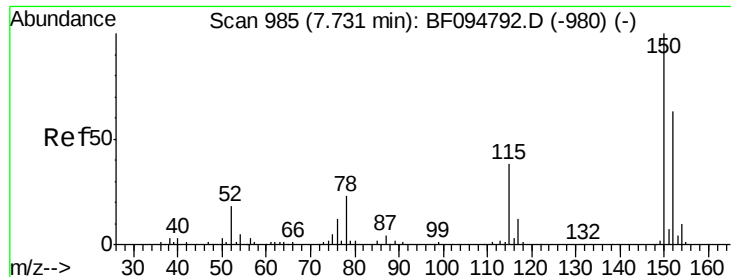
Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

Manual Integrations
APPROVED

mohammad
5/31/2017 5:03:11 PM

Quant Time: May 31 14:40:08 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 26 16:50:16 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.74 min Scan# 986

Delta R.T. -0.01 min

Lab File: BF095560.D

Acq: 31 May 2017 10:07

Instrument :

BNA_F

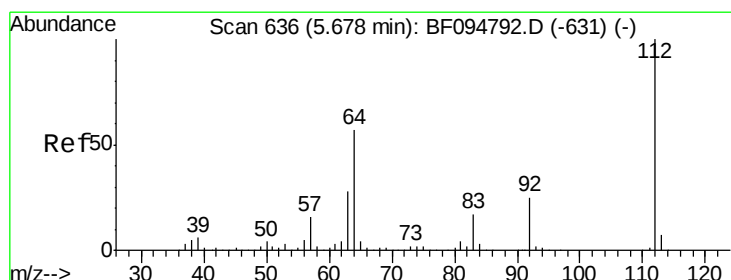
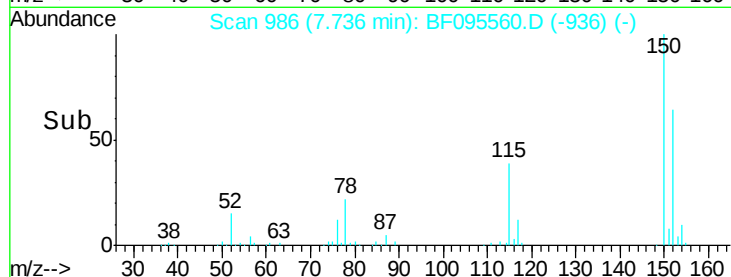
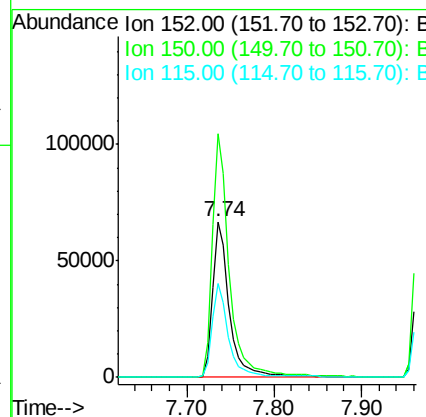
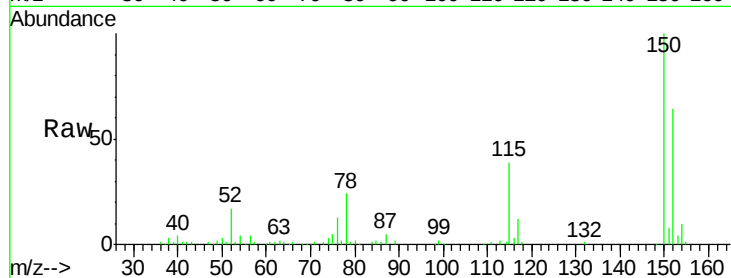
ClientSampleId :

R1-TP-4-SS2DL

Tgt Ion:	152	Resp:	90230
Ion Ratio	Lower	Upper	
152	100		
150	156.6	126.2	189.2
115	60.6	52.2	78.2

Manual Integrations
APPROVED

mohammad
5/31/2017 5:03:11 PM



#5

2-Fluorophenol

Concen: 55.86 ng

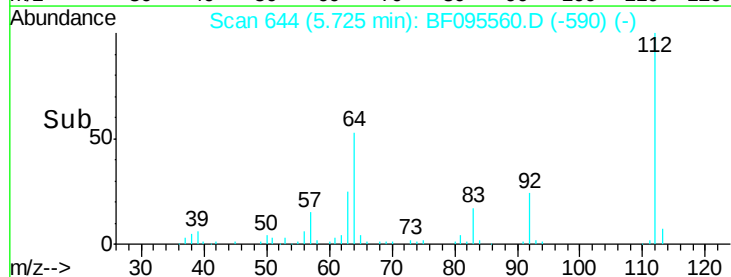
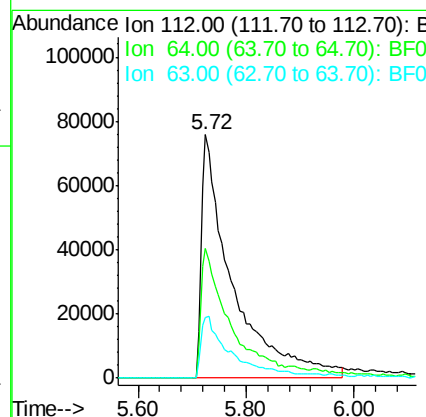
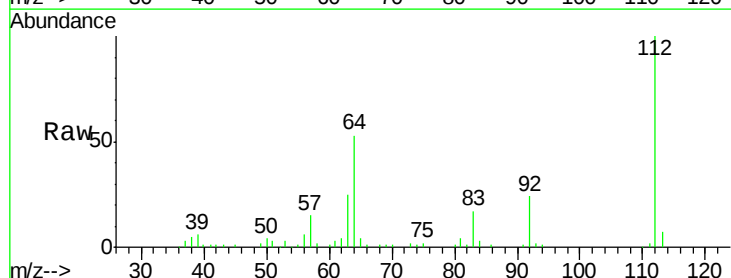
RT: 5.72 min Scan# 644

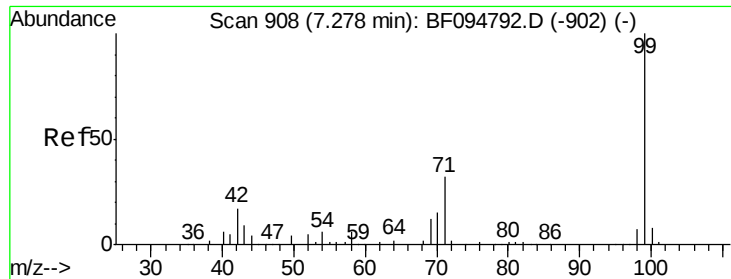
Delta R.T. 0.02 min

Lab File: BF095560.D

Acq: 31 May 2017 10:07

Tgt Ion:	112	Resp:	302295
Ion Ratio	Lower	Upper	
112	100		
64	53.2	46.0	69.0
63	25.0	23.4	35.0





#7

Phenol-d6

Concen: 53.34 ng

RT: 7.31 min Scan# 914

Delta R.T. 0.02 min

Lab File: BF095560.D

Acq: 31 May 2017 10:07

Instrument :

BNA_F

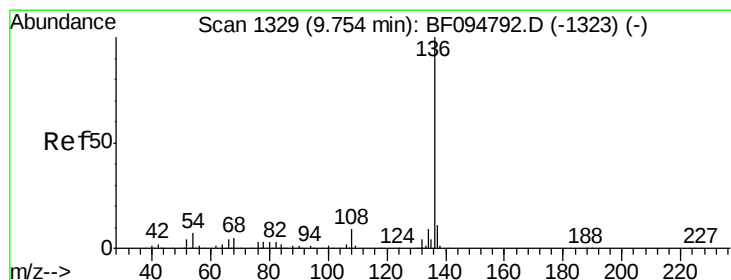
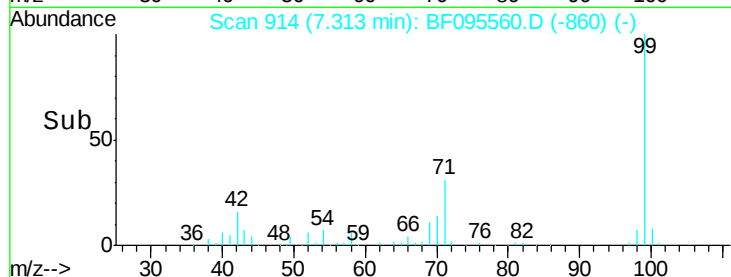
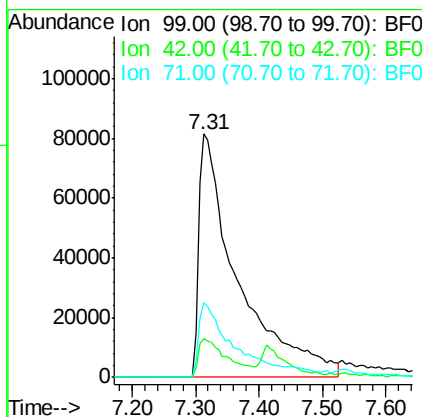
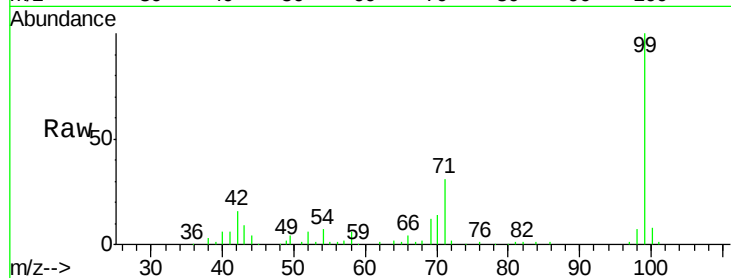
ClientSampled :

R1-TP-4-SS2DL

Tgt Ion:	99	Resp:	346345
Ion Ratio	Lower	Upper	
99	100		
42	15.9	13.5	20.3
71	30.6	24.5	36.7

Manual Integrations
APPROVED

mohammad
5/31/2017 5:03:11 PM



#21

Naphthalene-d8

Concen: 20.00 ng

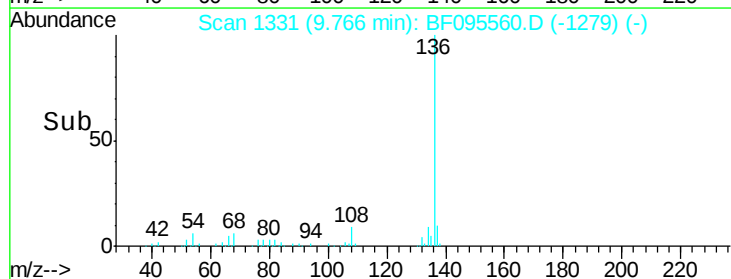
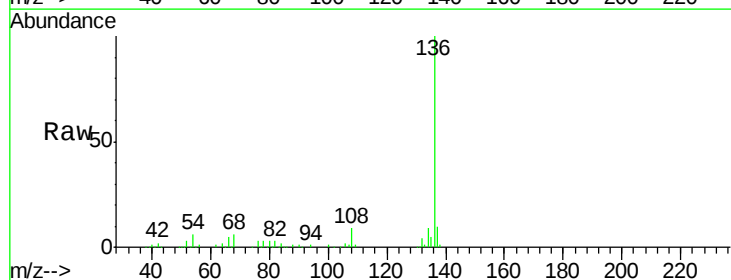
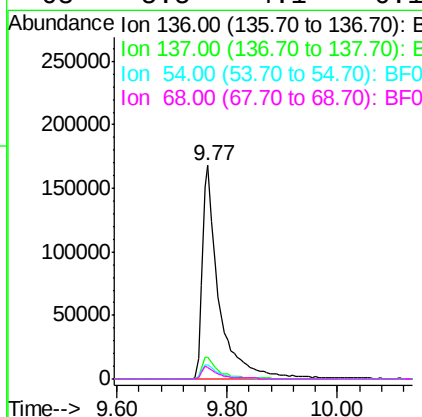
RT: 9.77 min Scan# 1331

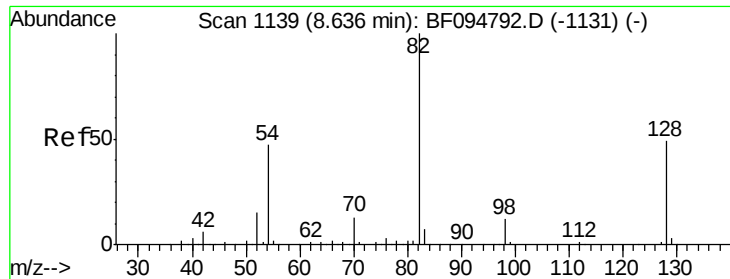
Delta R.T. 0.01 min

Lab File: BF095560.D

Acq: 31 May 2017 10:07

Tgt Ion:	136	Resp:	348305
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.5	12.7
54	6.5	4.9	7.3
68	5.5	4.1	6.1





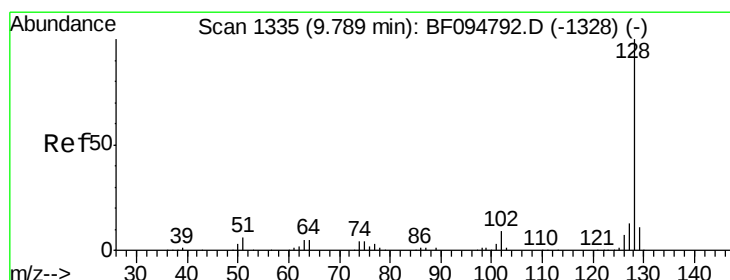
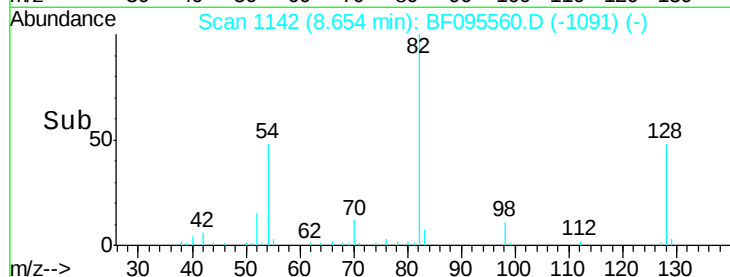
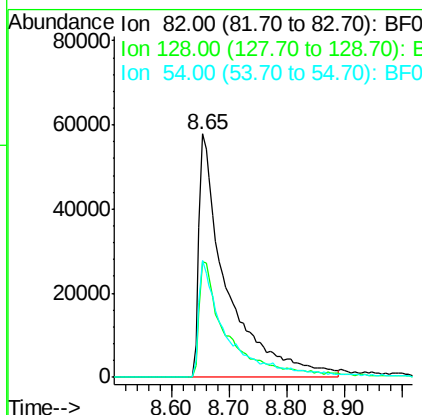
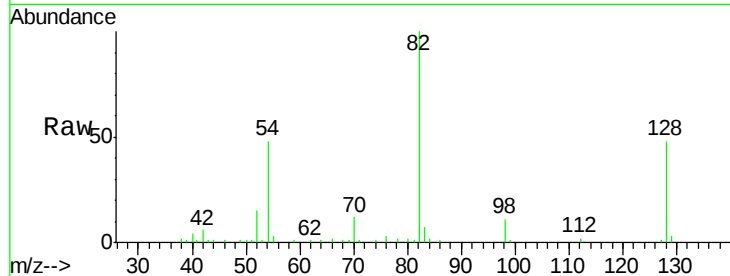
#23
Nitrobenzene-d5
Concen: 35.53 ng
RT: 8.65 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	196265		
128	47.7	34.0	51.0	
54	48.1	42.2	63.2	

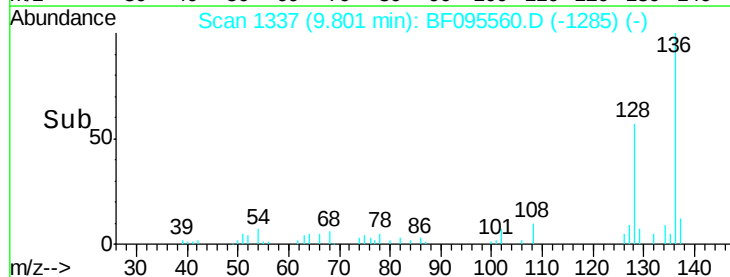
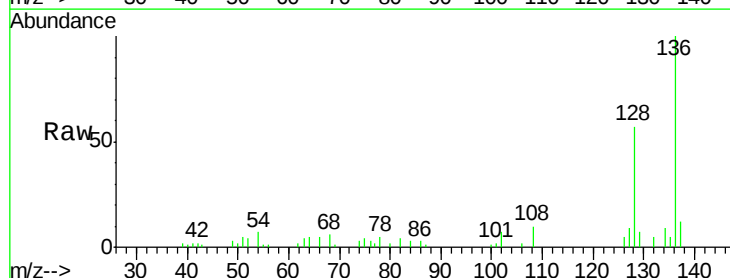
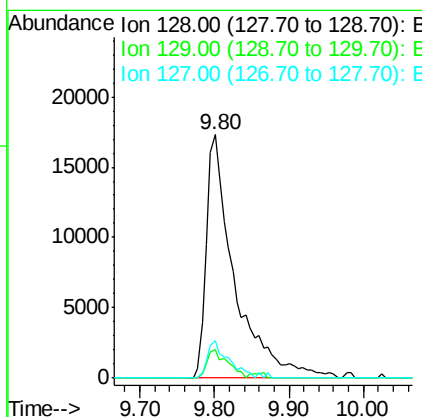
Manual Integrations
APPROVED

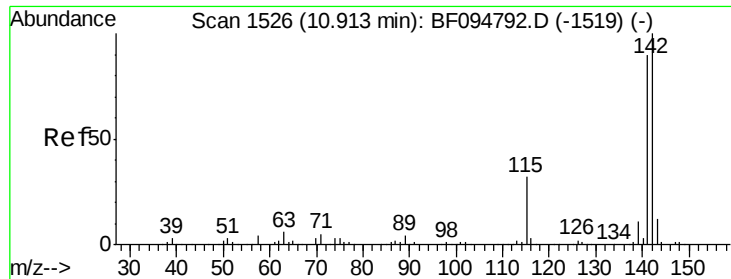
mohammad
5/31/2017 5:03:11 PM



#31
Naphthalene
Concen: 2.60 ng
RT: 9.80 min Scan# 1337
Delta R.T. 0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	45464		
129	11.7	9.0	13.6	
127	15.3	10.8	16.2	





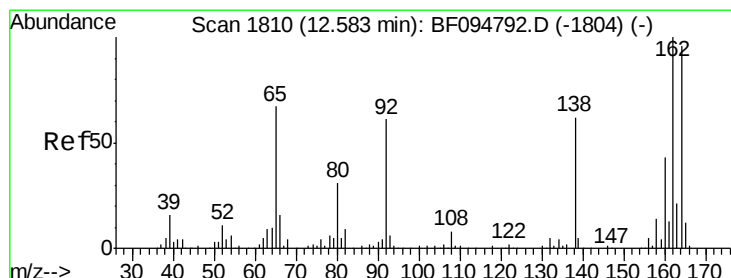
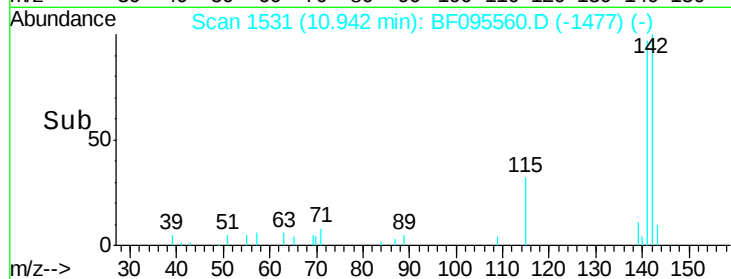
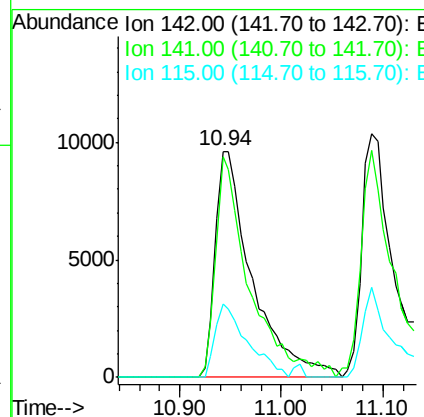
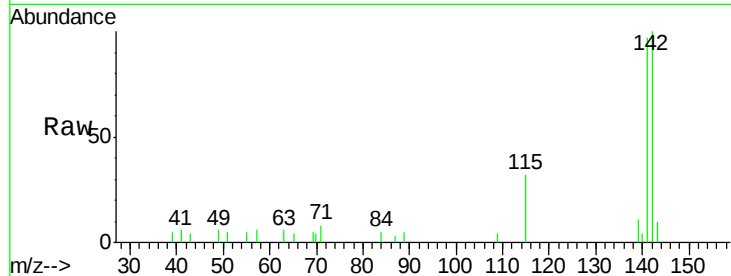
#37
2-Methylnaphthalene
Concen: 2.11 ng
RT: 10.94 min Scan# 1531
Delta R.T. 0.02 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	97.3	71.3	106.9
115	32.3	27.1	40.7

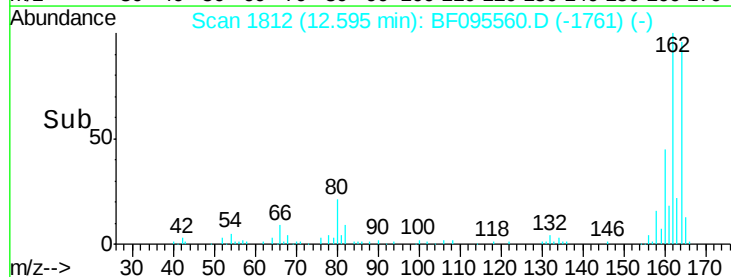
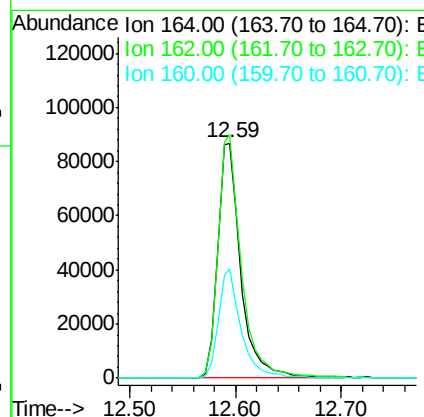
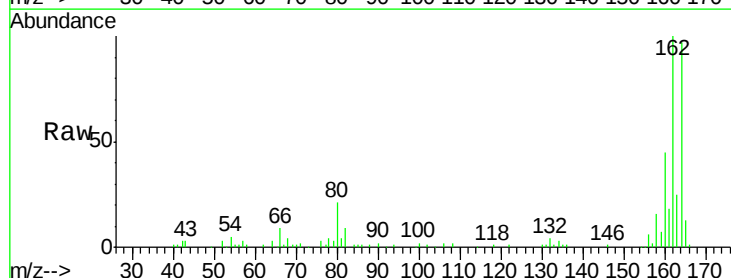
Manual Integrations
APPROVED

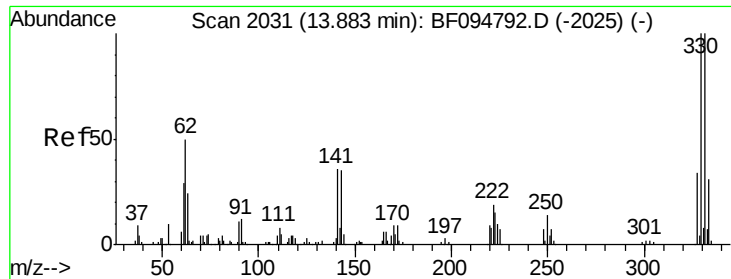
mohammad
5/31/2017 5:03:11 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1812
Delta R.T. -0.00 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.6	123.8
160	46.3	36.2	54.2





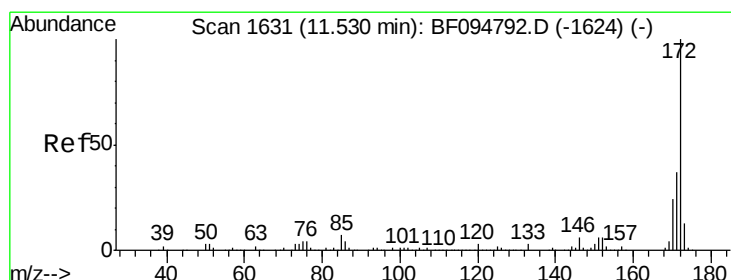
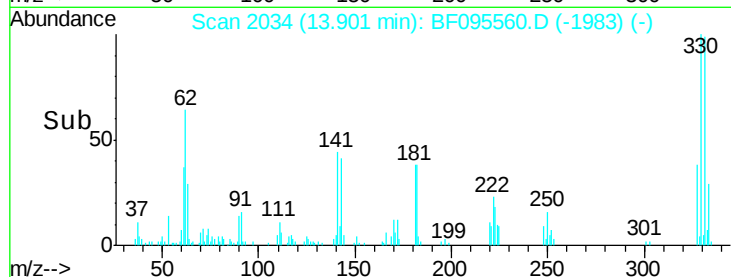
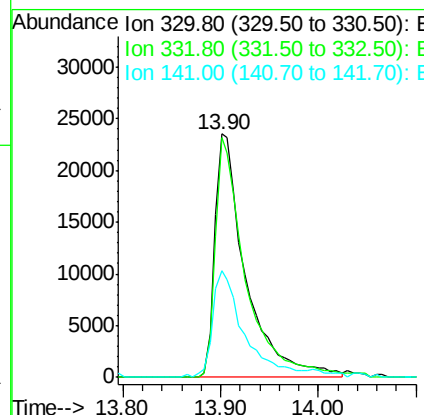
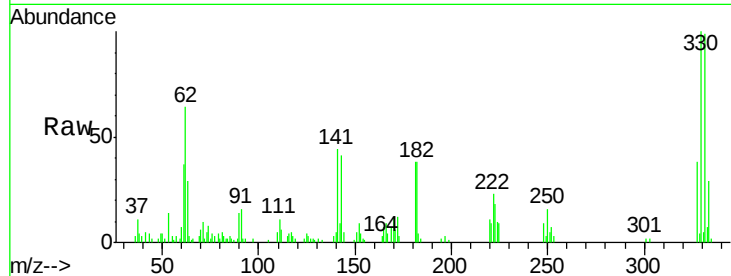
#41
 2,4,6-Tribromophenol
 Concen: 47.20 ng
 RT: 13.90 min Scan# 2034
 Delta R.T. -0.00 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2DL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.2	76.6	115.0
141	44.8	31.4	47.2

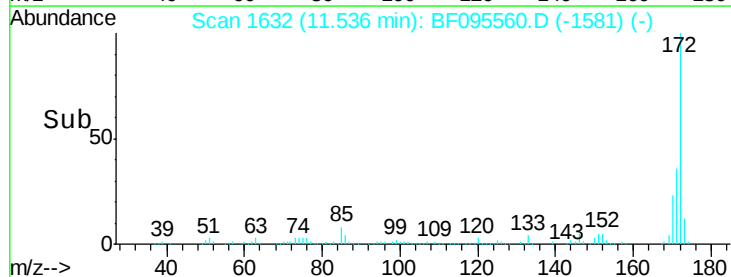
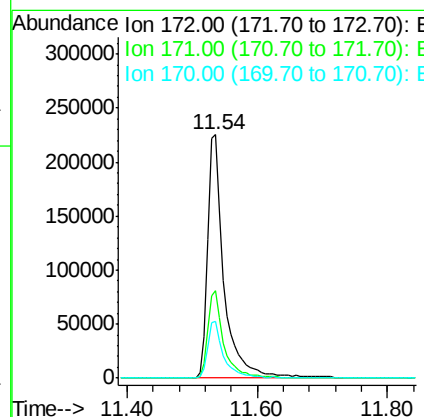
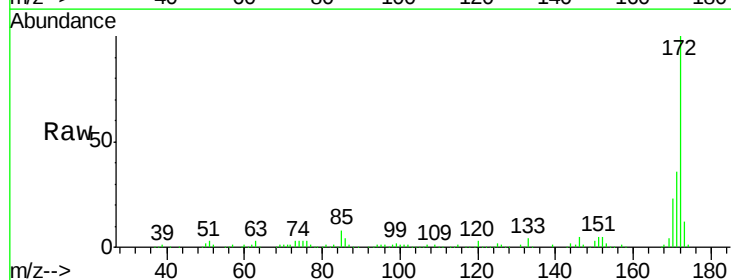
Manual Integrations
 APPROVED

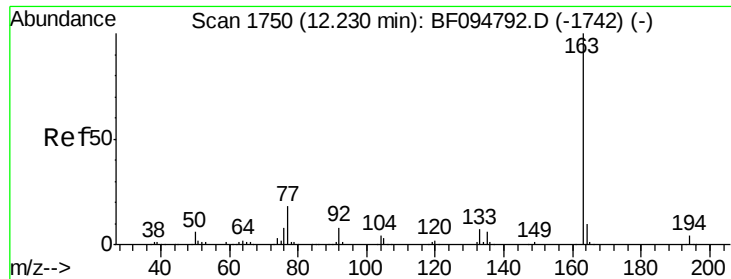
mohammad
 5/31/2017 5:03:11 PM



#44
 2-Fluorobiphenyl
 Concen: 42.37 ng
 RT: 11.54 min Scan# 1632
 Delta R.T. -0.00 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.6	44.4
170	23.4	19.8	29.8





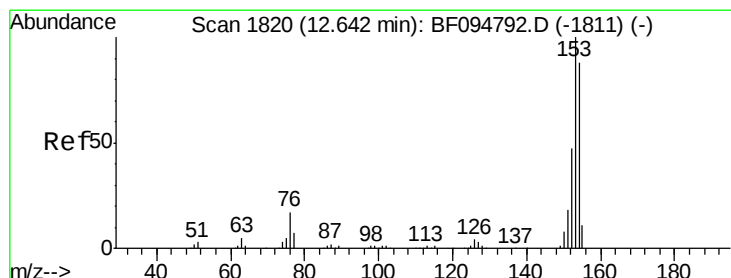
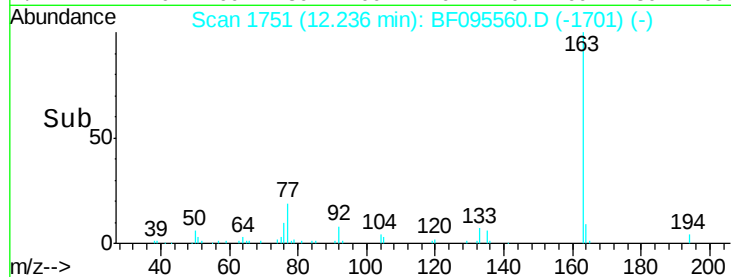
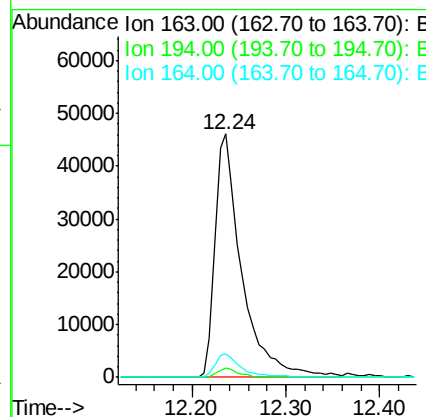
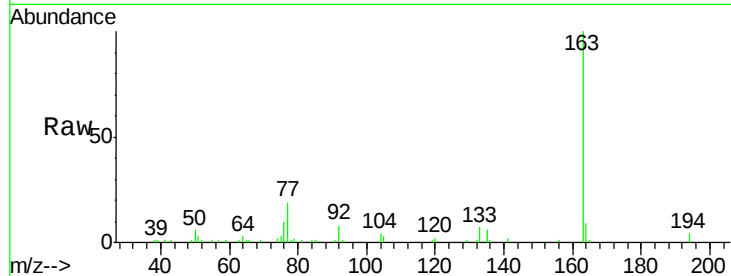
#49
Dimethylphthalate
Concen: 8.39 ng
RT: 12.24 min Scan# 1751
Delta R.T. -0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	92159		
194	4.0	2.6	4.0#	
164	9.5	8.4	12.6	

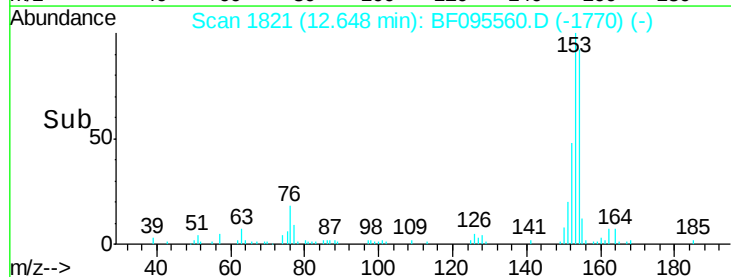
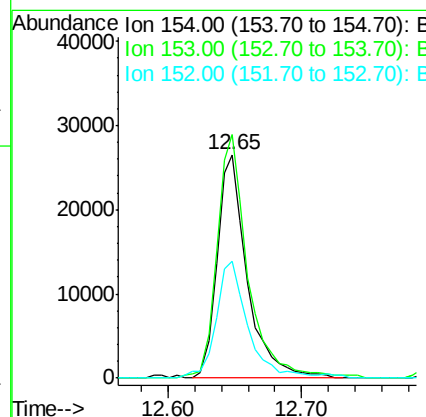
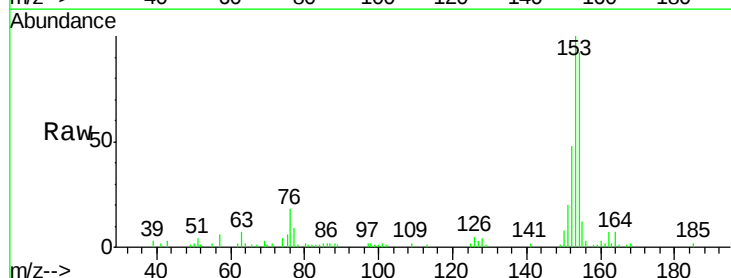
Manual Integrations
APPROVED

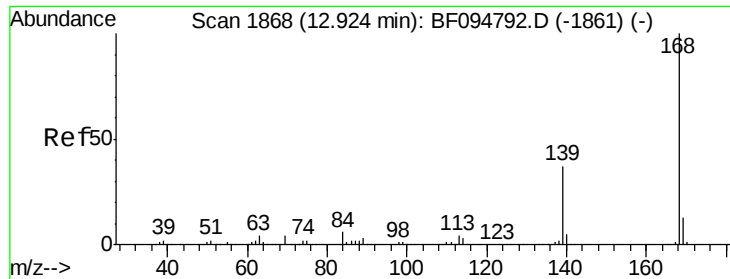
mohammad
5/31/2017 5:03:11 PM



#51
Acenaphthene
Concen: 4.91 ng
RT: 12.65 min Scan# 1821
Delta R.T. -0.00 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	41776		
153	108.9	90.5	135.7	
152	52.5	43.6	65.4	





#54

Dibenzenofuran

Concen: 3.63 ng

RT: 12.95 min Scan# 1872

Delta R.T. 0.01 min

Lab File: BF095560.D

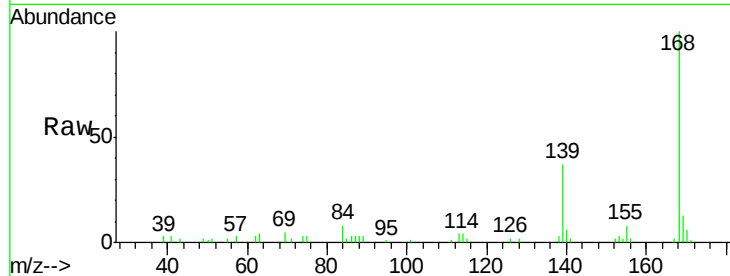
Acq: 31 May 2017 10:07

Instrument :

BNA_F

ClientSampleId :

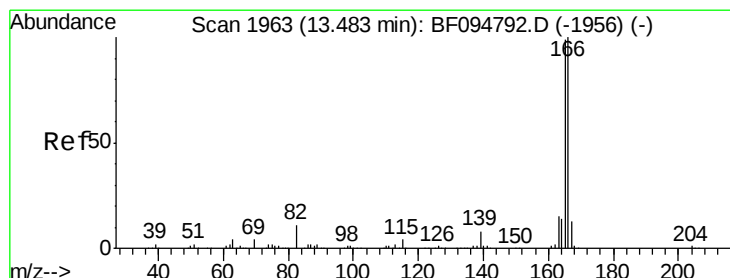
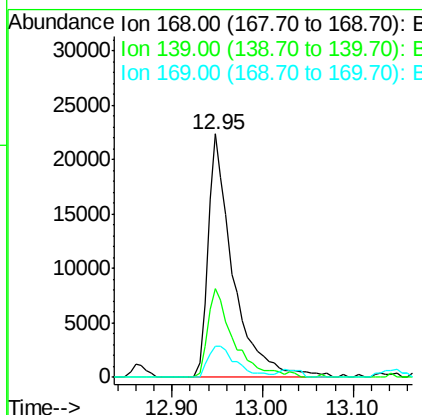
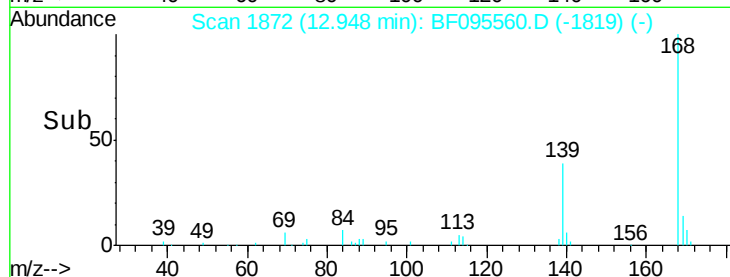
R1-TP-4-SS2DL



Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.6	30.6	45.8
169	13.0	10.8	16.2

Manual Integrations
APPROVED

mohammad
5/31/2017 5:03:11 PM



#57

Fluorene

Concen: 4.06 ng

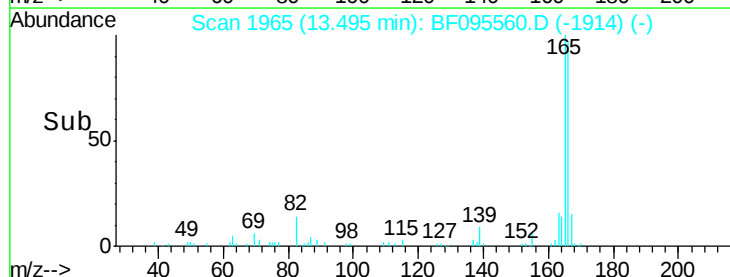
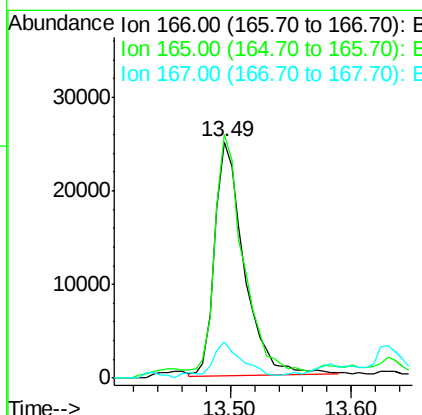
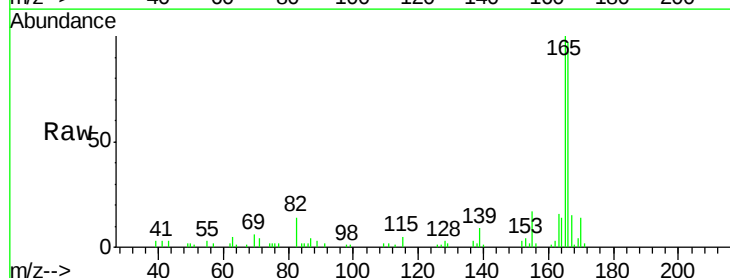
RT: 13.49 min Scan# 1965

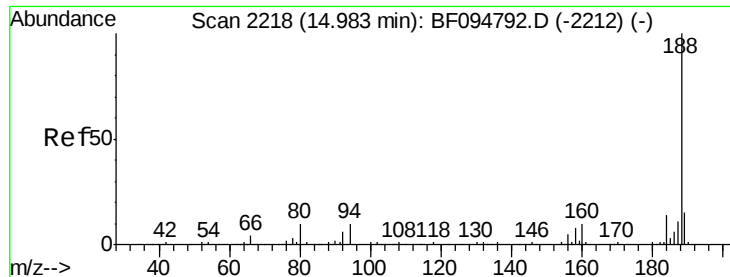
Delta R.T. -0.00 min

Lab File: BF095560.D

Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.2	78.8	118.2
167	15.6	10.6	16.0





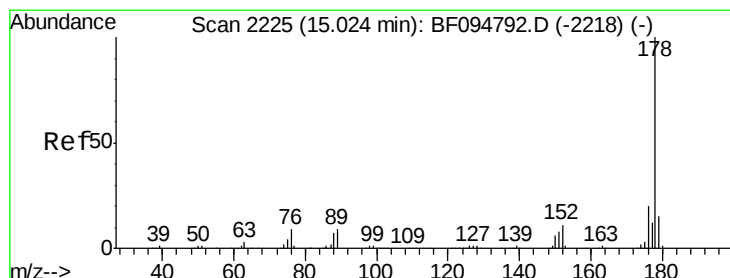
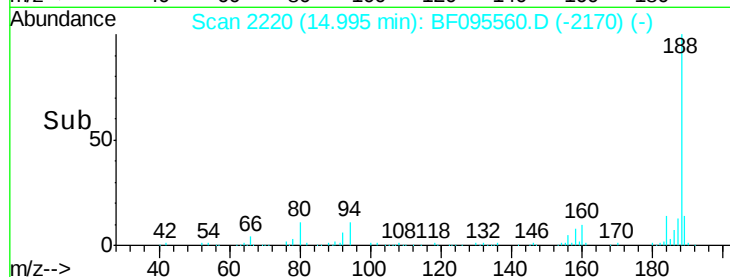
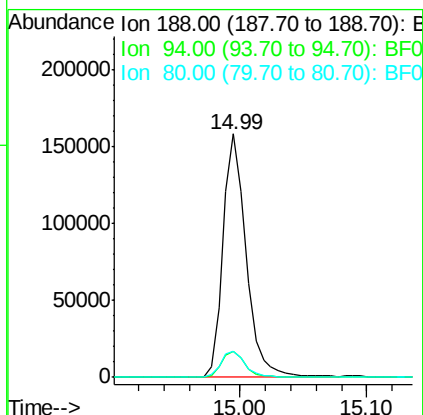
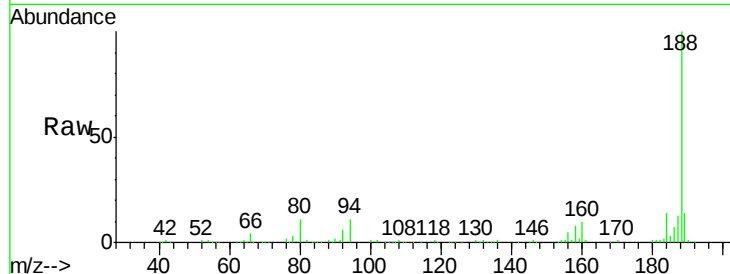
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.99 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.8	9.4	14.2
80	10.8	10.2	15.2

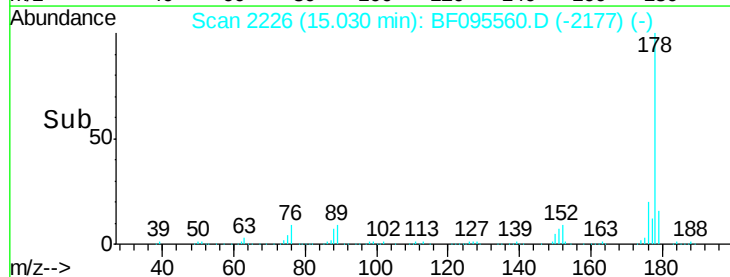
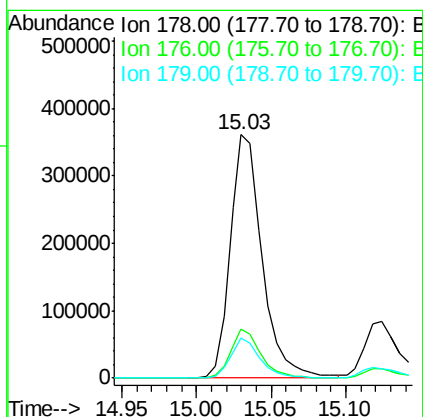
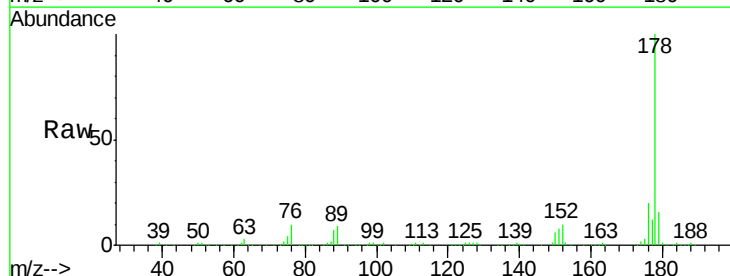
Manual Integrations
APPROVED

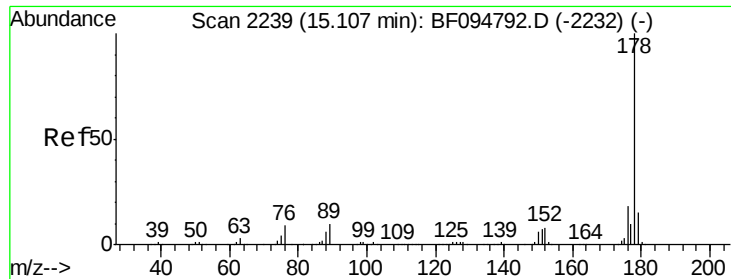
mohammad
5/31/2017 5:03:11 PM



#70
Phenanthrene
Concen: 46.73 ng
RT: 15.03 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.9	16.2	24.4
179	16.3	12.6	19.0





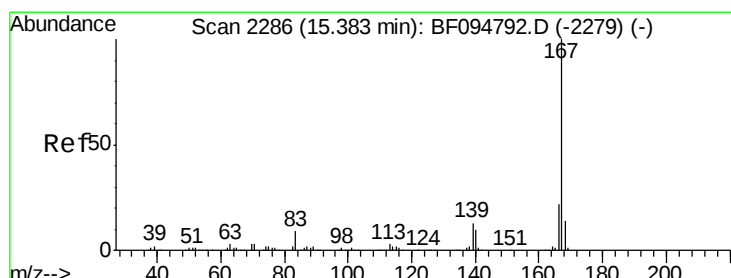
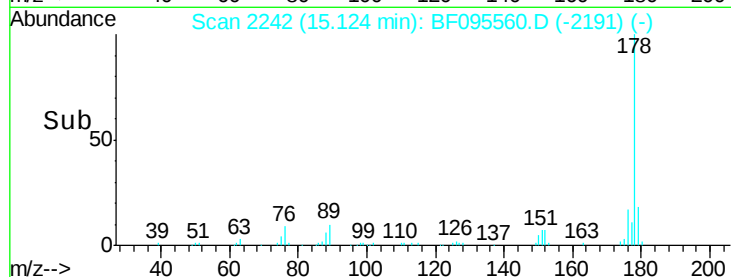
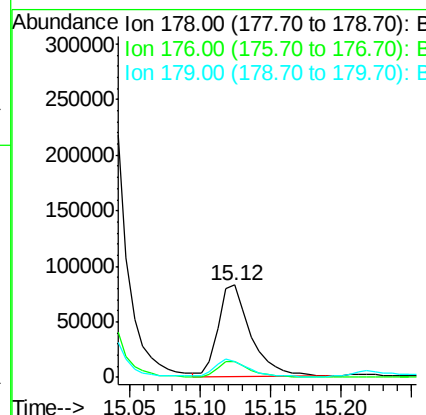
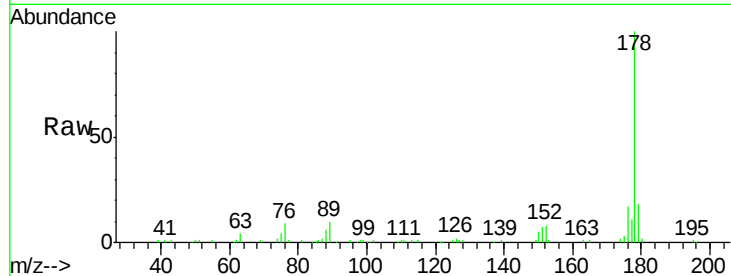
#71
 Anthracene
 Concen: 11.08 ng
 RT: 15.12 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.4	15.8	23.8
179	17.6	12.7	19.1

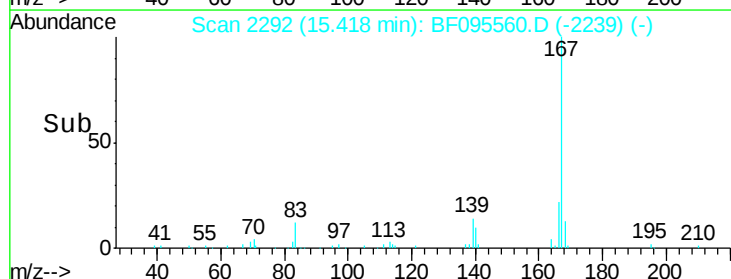
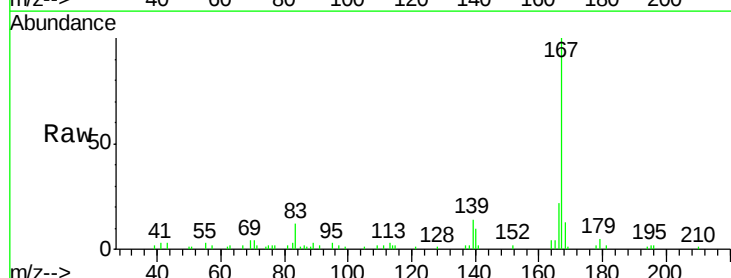
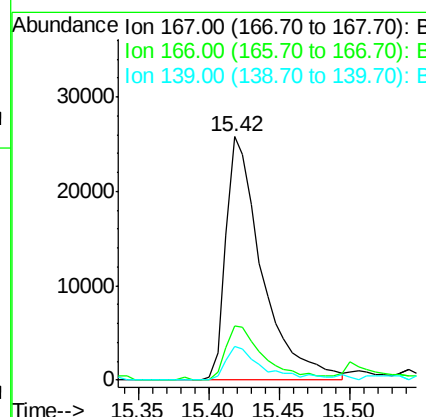
Manual Integrations
 APPROVED

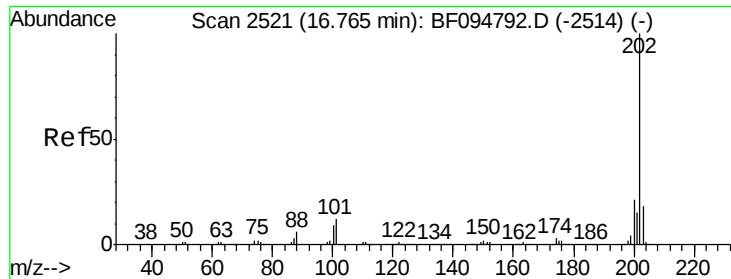
mohammad
 5/31/2017 5:03:11 PM



#72
 Carbazole
 Concen: 4.29 ng
 RT: 15.42 min Scan# 2292
 Delta R.T. 0.01 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	18.1	27.1
139	13.8	11.7	17.5





#74

Fluoranthene

Concen: 57.47 ng

RT: 16.78 min Scan# 2523

Delta R.T. -0.01 min

Lab File: BF095560.D

Acq: 31 May 2017 10:07

Instrument :

BNA_F

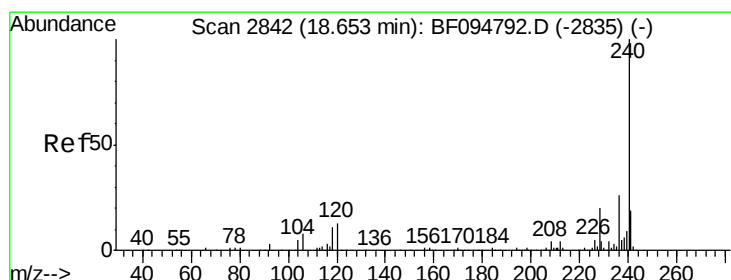
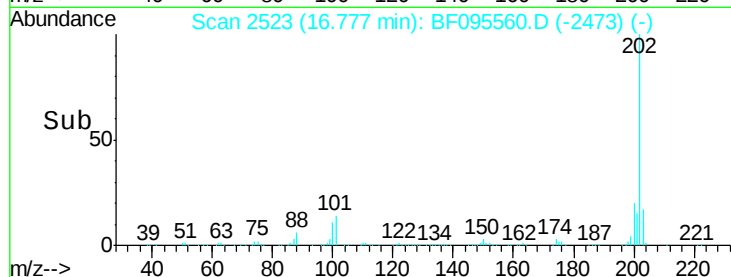
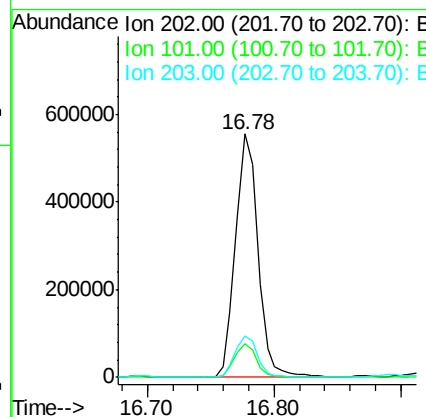
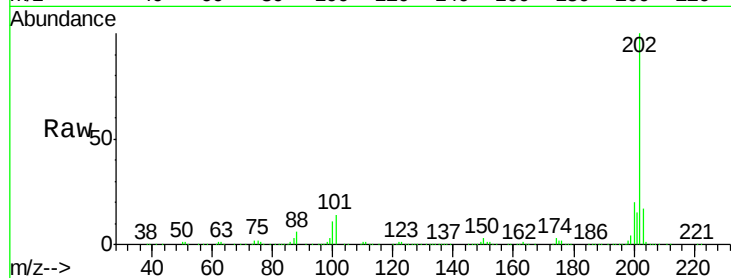
ClientSampleId :

R1-TP-4-SS2DL

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	681719		
101	14.1	0.0	33.2	
203	17.1	0.0	38.1	

Manual Integrations
APPROVED

mohammad
5/31/2017 5:03:11 PM



#75

Chrysene-d12

Concen: 20.00 ng

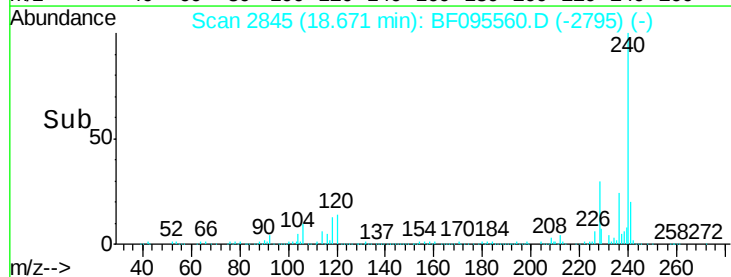
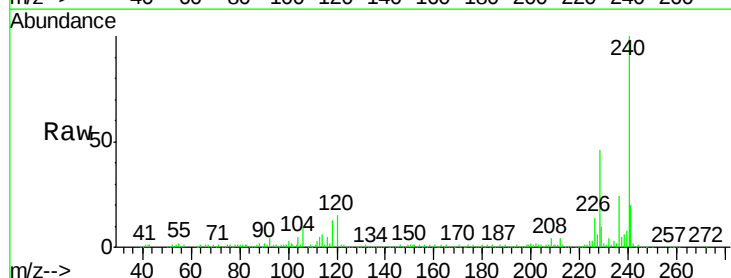
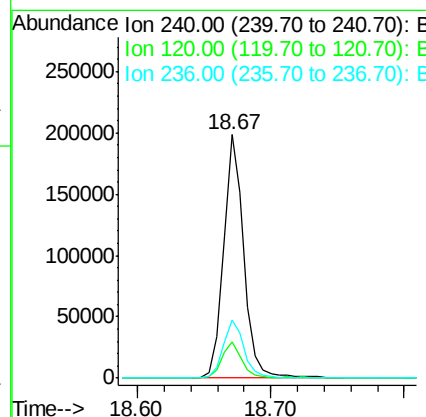
RT: 18.67 min Scan# 2845

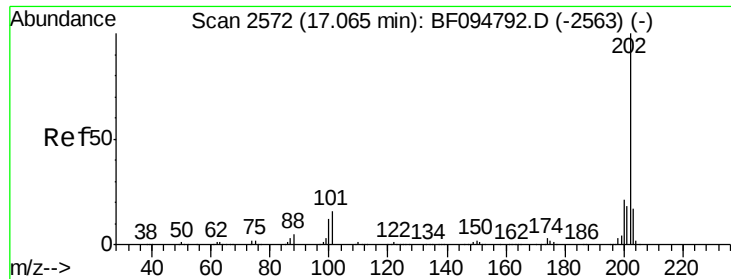
Delta R.T. -0.01 min

Lab File: BF095560.D

Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	212370		
120	14.7	5.8	8.8#	
236	23.8	20.5	30.7	





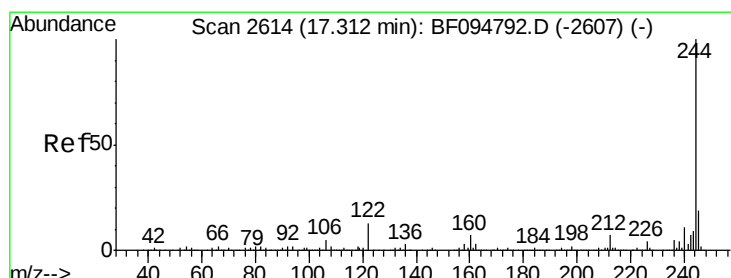
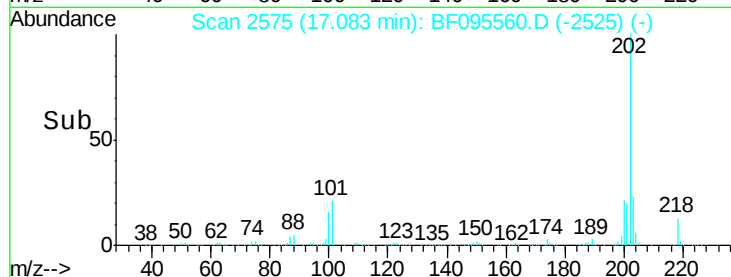
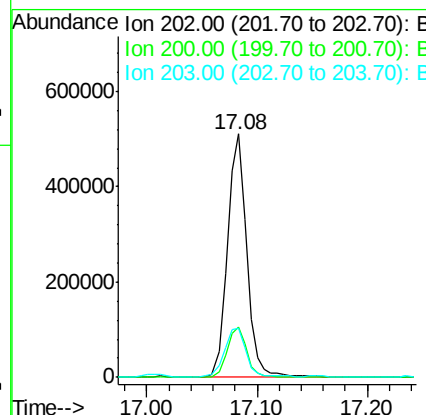
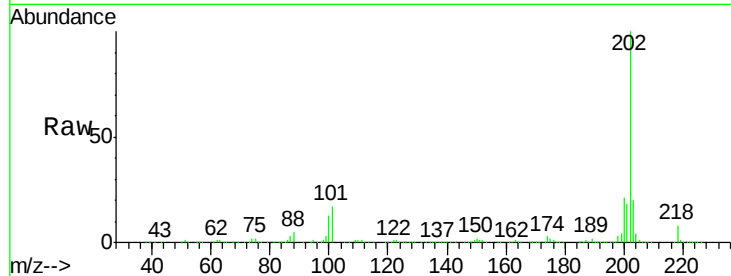
#77
 Pyrene
 Concen: 39.23 ng
 RT: 17.08 min Scan# 2575
 Delta R.T. -0.01 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2DL

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	623116		
200	20.6		17.6	26.4
203	19.9		14.4	21.6

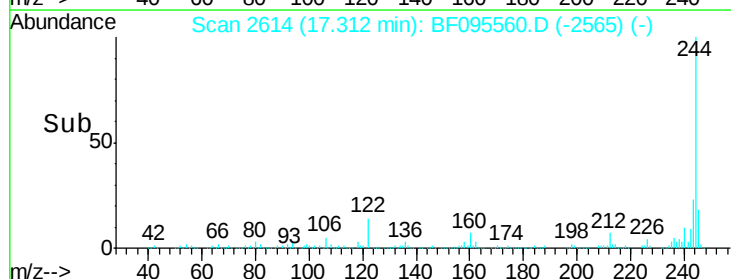
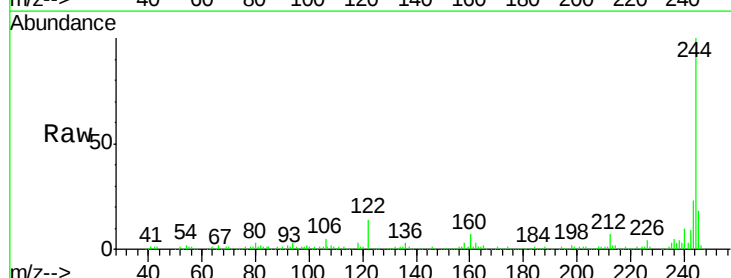
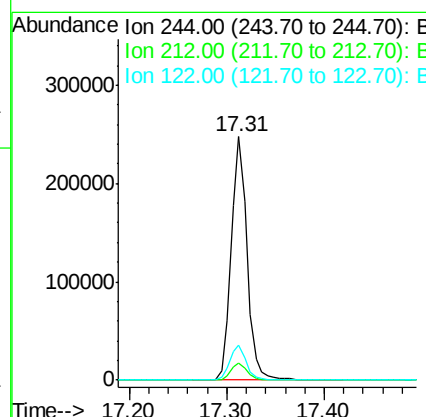
Manual Integrations
 APPROVED

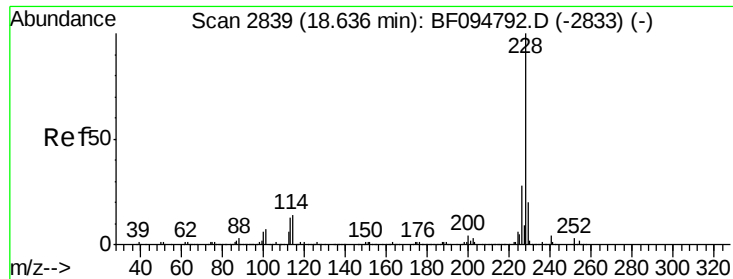
mohammad
 5/31/2017 5:03:11 PM



#78
 Terphenyl-d14
 Concen: 28.90 ng
 RT: 17.31 min Scan# 2614
 Delta R.T. -0.01 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	278663		
212	7.1		6.0	9.0
122	14.1		10.3	15.5





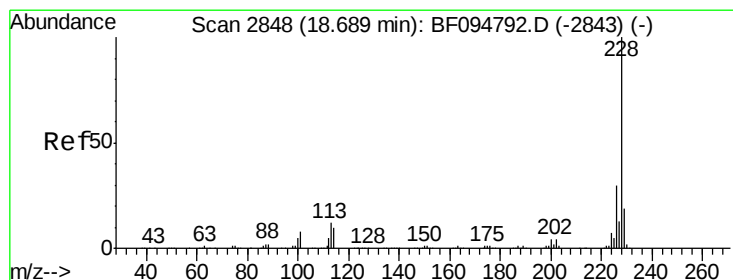
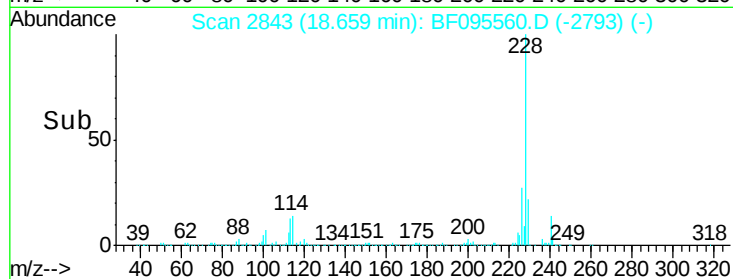
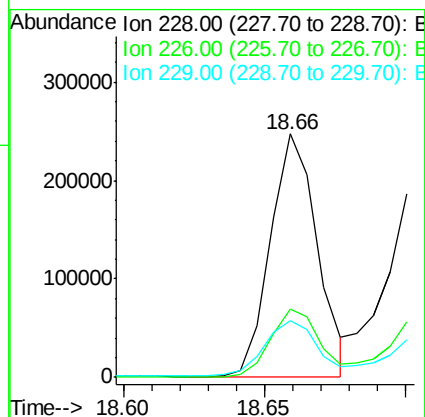
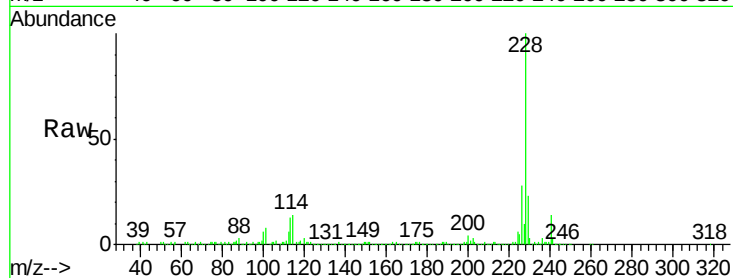
#80
Benzo(a)anthracene
Concen: 22.95 ng
RT: 18.66 min Scan# 2843
Delta R.T. -0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

Tgt Ion:	228	Resp:	283635
Ion Ratio	Lower	Upper	
228	100		
226	28.0	22.6	33.8
229	23.3	16.3	24.5

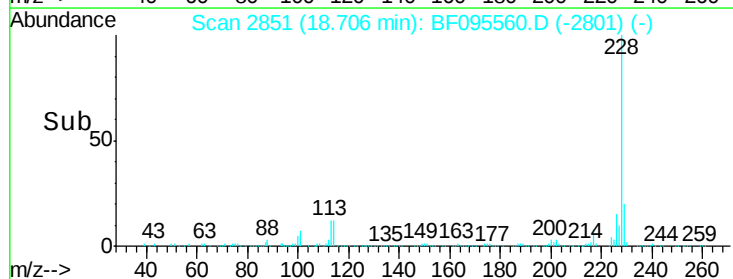
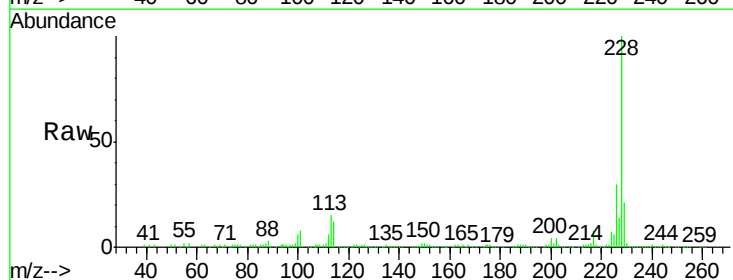
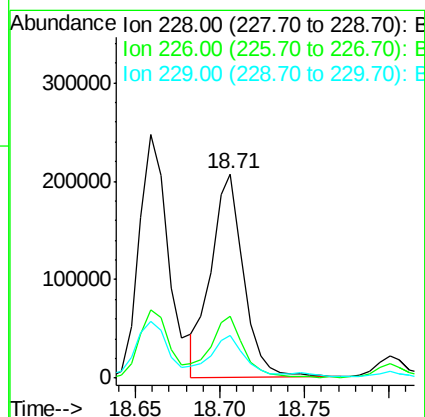
Manual Integrations
APPROVED

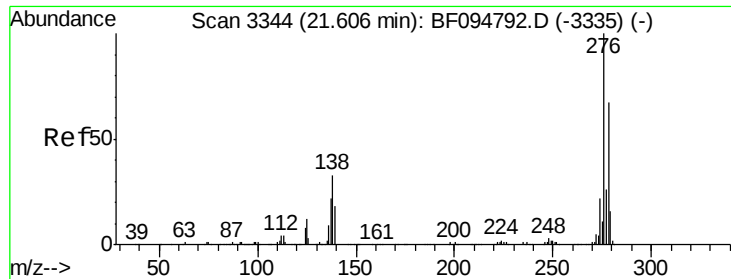
mohammad
5/31/2017 5:03:11 PM



#82
Chrysene
Concen: 23.28 ng
RT: 18.71 min Scan# 2851
Delta R.T. -0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Tgt Ion:	228	Resp:	278172
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.9	37.3
229	20.6	15.8	23.6





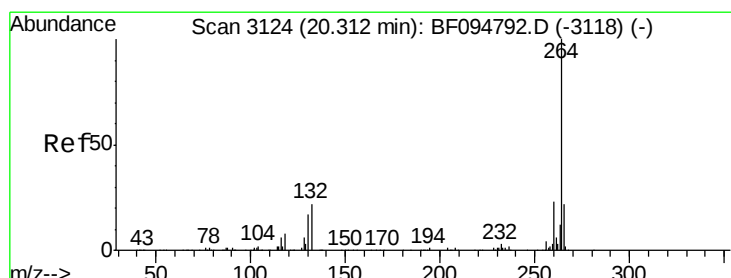
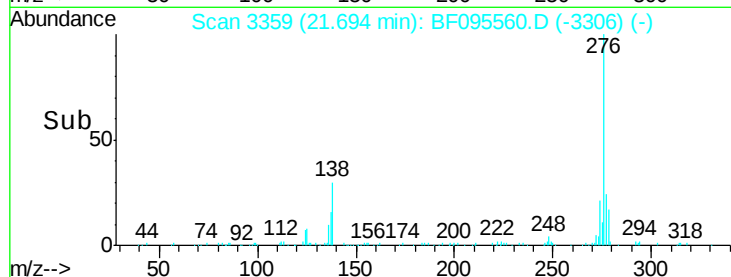
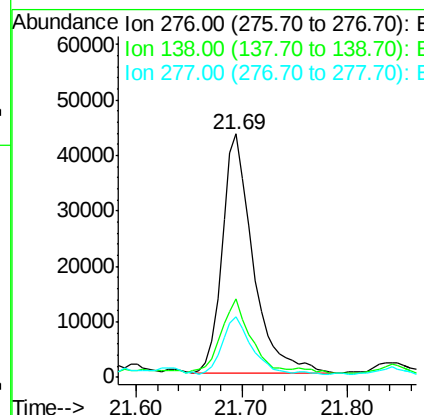
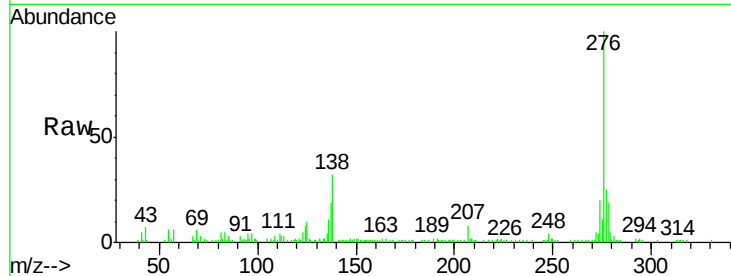
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.05 ng
 RT: 21.69 min Scan# 3359
 Delta R.T. 0.01 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.0	27.8	41.6
277	23.3	20.2	30.4

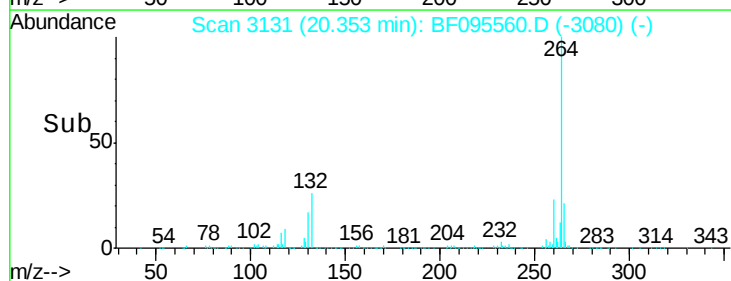
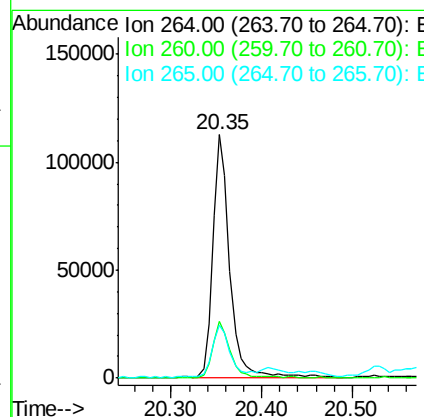
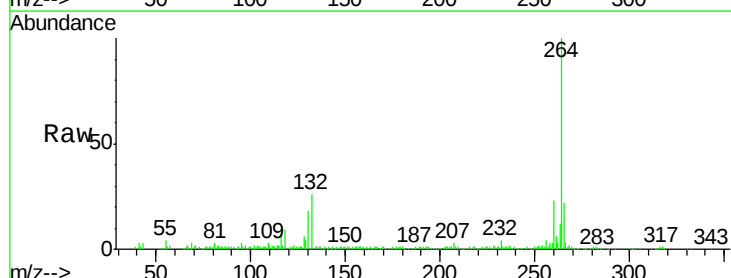
Manual Integrations
 APPROVED

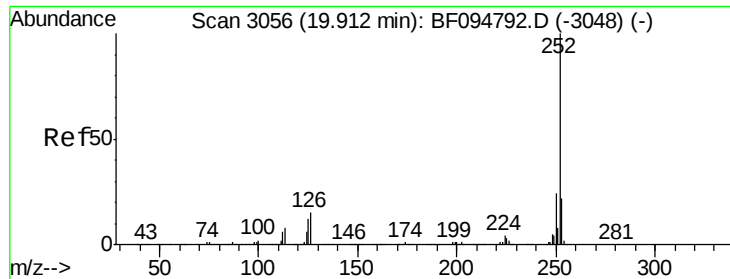
mohammad
 5/31/2017 5:03:11 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.35 min Scan# 3131
 Delta R.T. -0.00 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.5	29.3
265	21.6	17.2	25.8





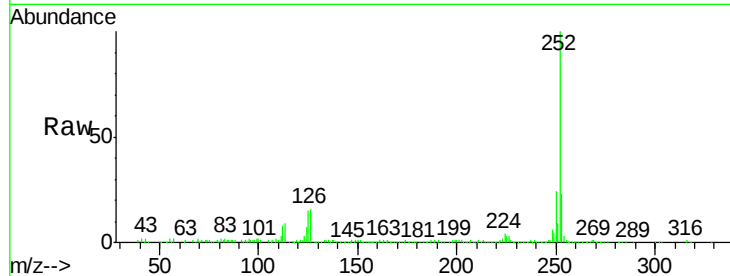
#87
Benzo(b)fluoranthene
Concen: 31.10 ng m
RT: 19.95 min Scan# 3062
Delta R.T. 0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

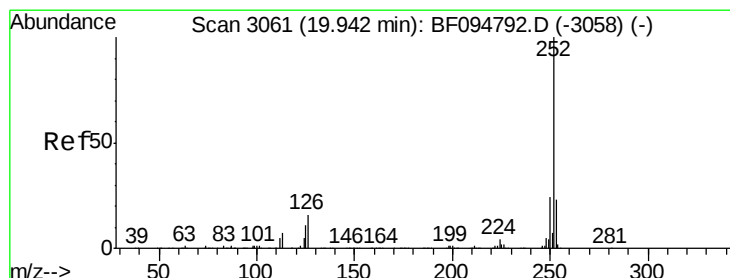
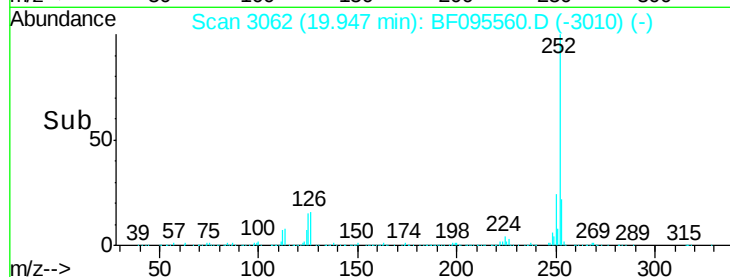
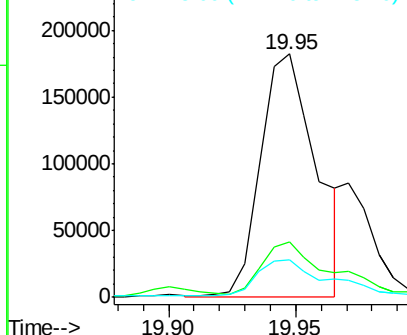
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	15.3	9.8	14.8

Manual Integrations
APPROVED

mohammad
5/31/2017 5:03:11 PM



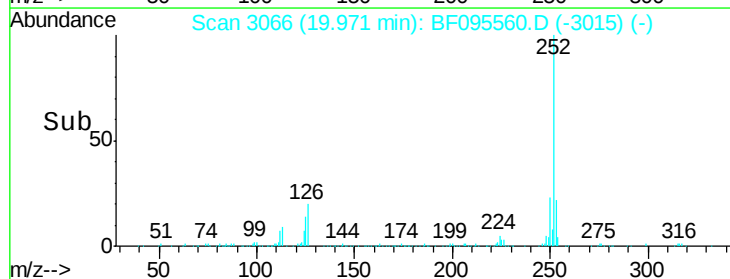
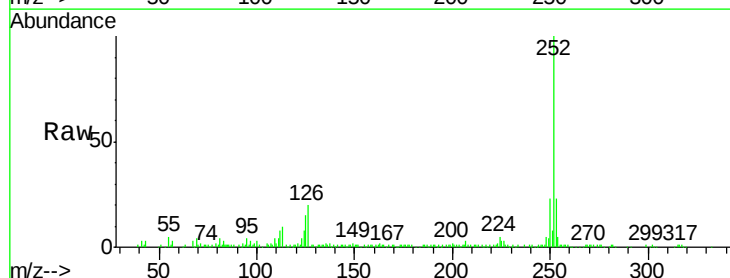
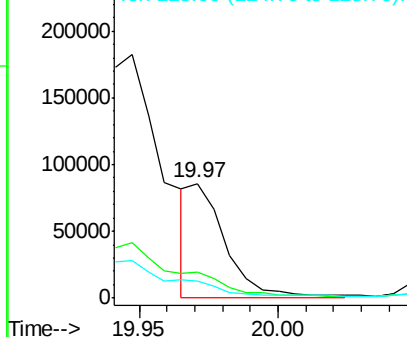
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

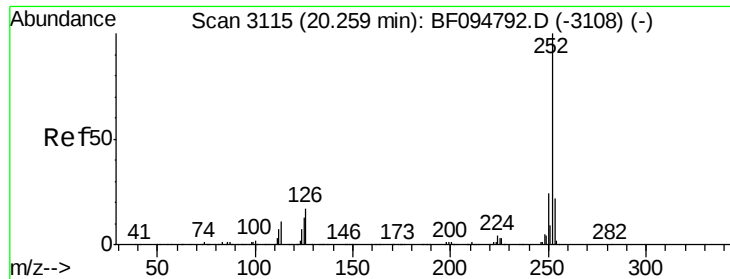


#88
Benzo(k)fluoranthene
Concen: 9.06 ng m
RT: 19.97 min Scan# 3066
Delta R.T. -0.00 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	15.4	13.1	19.7

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





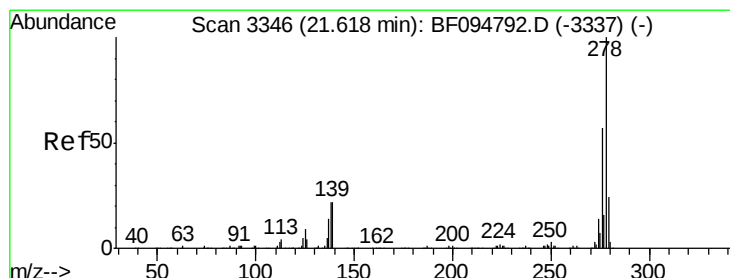
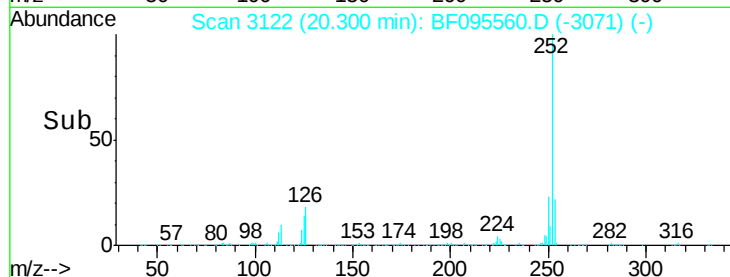
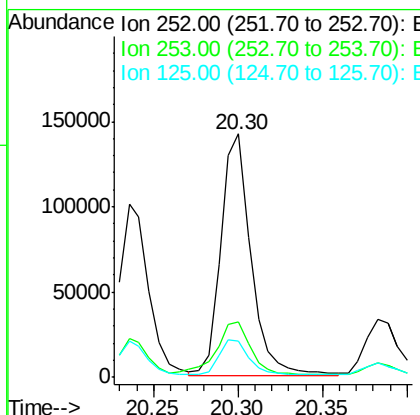
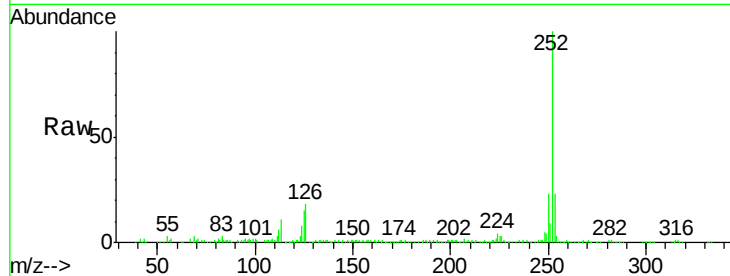
#89
Benzo(a)pyrene
Concen: 21.38 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.00 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2DL

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	176639		
253	22.9	17.5	26.3	
125	15.0	11.0	16.4	

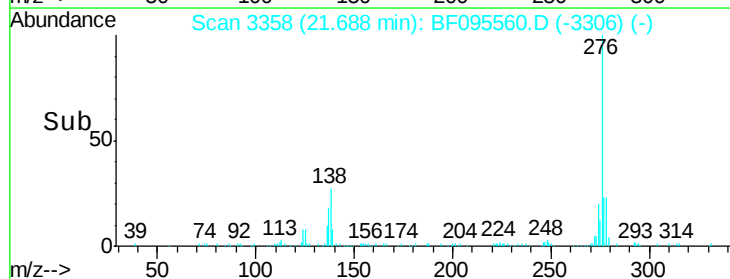
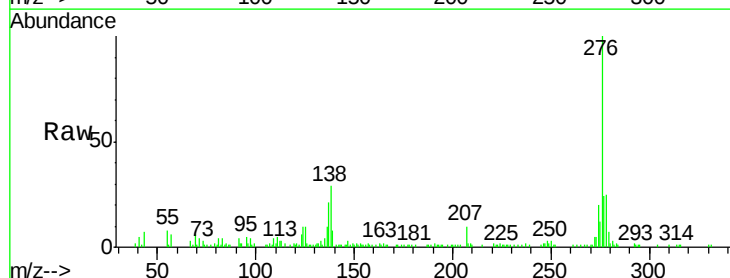
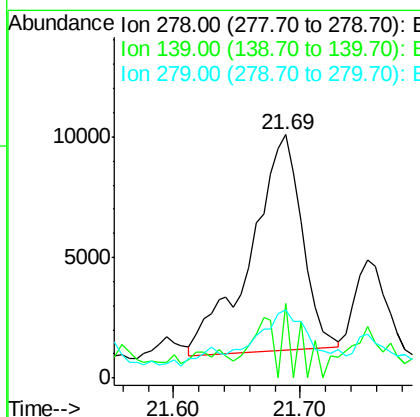
Manual Integrations
APPROVED

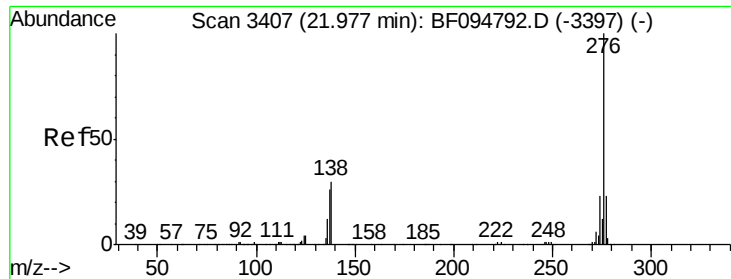
mohammad
5/31/2017 5:03:11 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.70 ng
RT: 21.69 min Scan# 3358
Delta R.T. 0.01 min
Lab File: BF095560.D
Acq: 31 May 2017 10:07

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	25230		
139	30.9	16.6	24.8#	
279	28.3	19.3	28.9	





#91
 Benzo(g,h,i)perylene
 Concen: 12.40 ng
 RT: 22.08 min Scan# 3425
 Delta R.T. 0.01 min
 Lab File: BF095560.D
 Acq: 31 May 2017 10:07

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2DL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.6	28.0
138	30.2	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 5/31/2017 5:03:11 PM

