

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
 Data File : BF095535.D
 Acq On : 30 May 2017 15:03
 Operator : SJ/MA
 Sample : I3281-11
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP5-D34

Manual Integrations
 APPROVED

mohammad
 5/31/2017 5:02:24 PM

Quant Time: May 31 02:26:51 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	94968	20.00	ng	0.00
21) Naphthalene-d8	9.77	136	394539	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	180938	20.00	ng	0.00
63) Phenanthrene-d10	14.99	188	280846	20.00	ng	-0.01
75) Chrysene-d12	18.67	240	187183	20.00	ng	0.00
86) Perylene-d12	20.35	264	204704	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	510401	89.60	ng	0.00
7) Phenol-d6	7.28	99	686598	100.46	ng	-0.01
23) Nitrobenzene-d5	8.64	82	414377	66.23	ng	-0.01
41) 2,4,6-Tribromophenol	13.89	330	121899	82.26	ng	0.00
44) 2-Fluorobiphenyl	11.53	172	759271	60.40	ng	0.00
78) Terphenyl-d14	17.31	244	448161	52.73	ng	-0.01
Target Compounds						Qvalue
37) 2-Methylnaphthalene	10.94	142	36727	2.82	ng	95
48) Acenaphthylene	12.37	152	44044	2.29	ng	98
49) Dimethylphthalate	12.22	163	219495	14.78	ng	99
51) Acenaphthene	12.64	154	26166	2.27	ng	100
54) Dibenzofuran	12.94	168	56140	3.53	ng	96
57) Fluorene	13.49	166	43404	3.13	ng	99
70) Phenanthrene	15.03	178	674367	41.79	ng	98
71) Anthracene	15.12	178	217158	13.17	ng	95
72) Carbazole	15.42	167	36586	2.44	ng	96
74) Fluoranthene	16.78	202	580177	35.05	ng	98
77) Pyrene	17.08	202	446812	31.92	ng	96
80) Benzo(a)anthracene	18.66	228	222235	20.40	ng	97
82) Chrysene	18.70	228	188605	17.90	ng	98
85) Indeno(1,2,3-cd)pyrene	21.69	276	66247	7.74	ng	92
87) Benzo(b)fluoranthene	19.94	252	195616m	15.47	ng	
88) Benzo(k)fluoranthene	19.96	252	68576m	5.62	ng	
89) Benzo(a)pyrene	20.29	252	155187	13.30	ng	98
90) Dibenzo(a,h)anthracene	21.67	278	26688	2.77	ng	# 81
91) Benzo(g,h,i)perylene	22.08	276	50759	5.37	ng	96

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

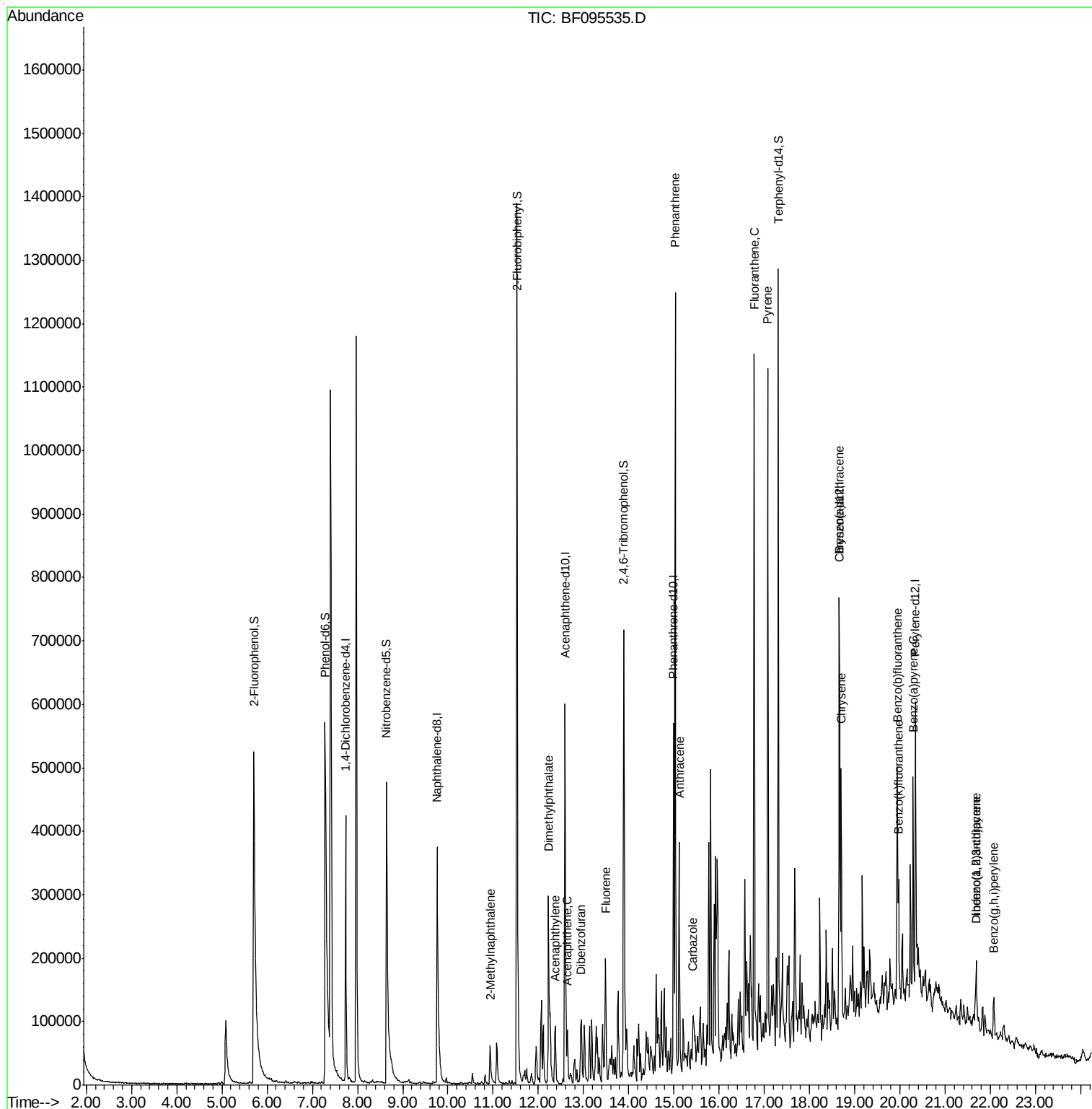
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
Data File : BF095535.D
Acq On : 30 May 2017 15:03
Operator : SJ/MA
Sample : I3281-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

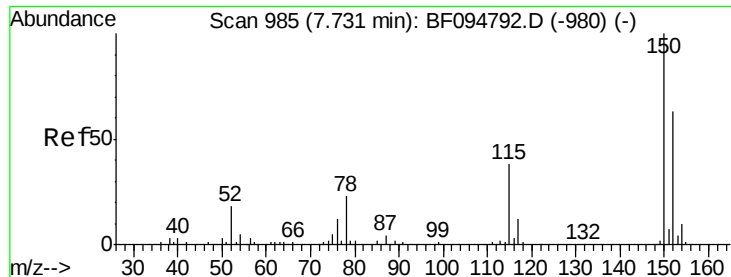
Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Manual Integrations
APPROVED

mohammad
5/31/2017 5:02:24 PM

Quant Time: May 31 02:26:51 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

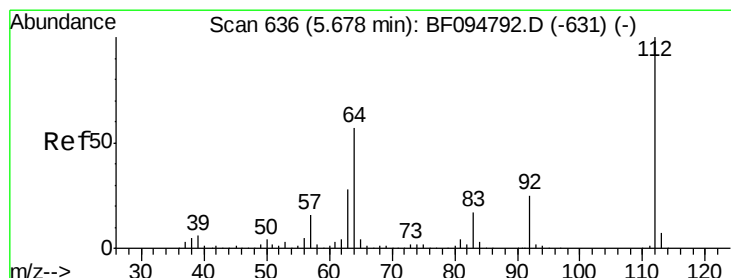
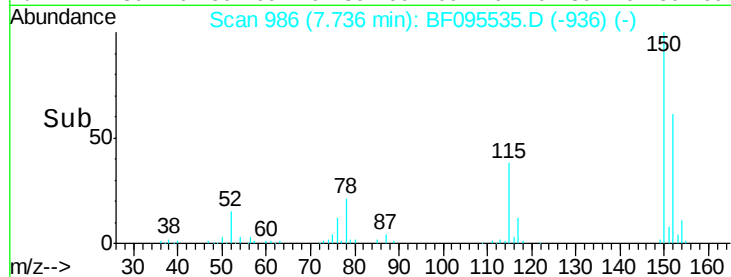
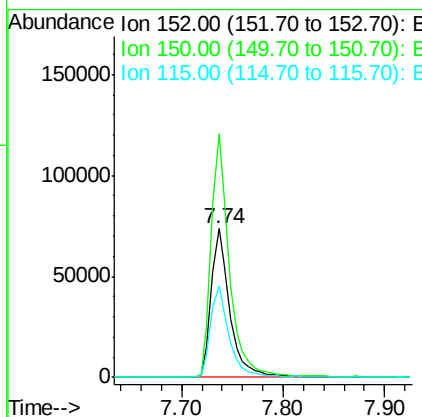
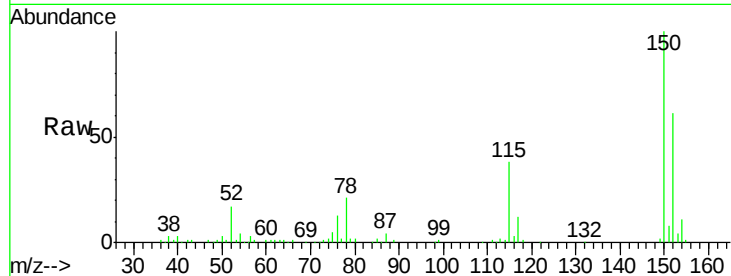
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Lower	Upper
152	100		
150	163.7	126.2	189.2
115	61.8	52.2	78.2

Manual Integrations
APPROVED

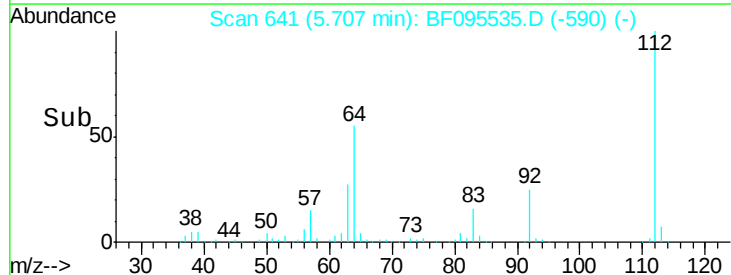
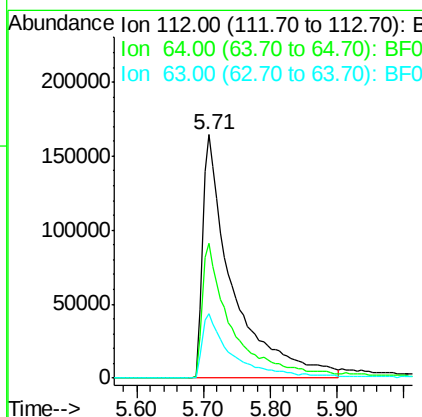
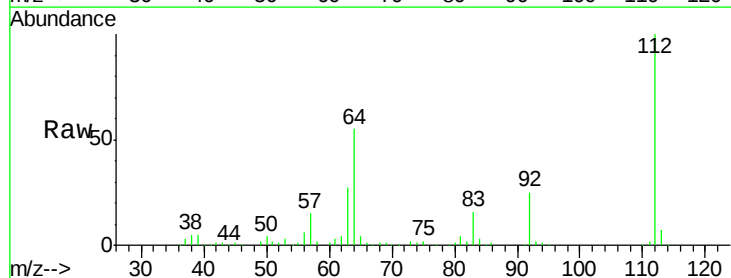
mohammad
5/31/2017 5:02:24 PM

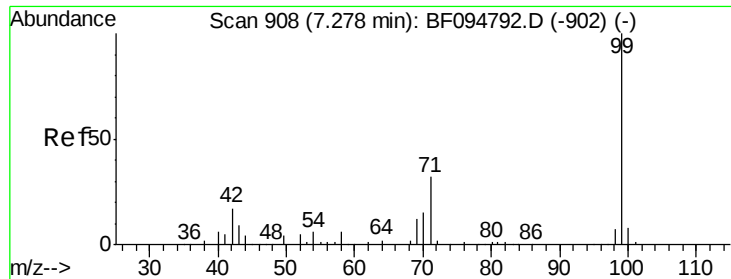


#5

2-Fluorophenol
Concen: 89.60 ng
RT: 5.71 min Scan# 641
Delta R.T. -0.00 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.2	46.0	69.0
63	26.6	23.4	35.0





#7

Phenol-d6

Concen: 100.46 ng

RT: 7.28 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF095535.D

Acq: 30 May 2017 15:03

Instrument :

BNA_F

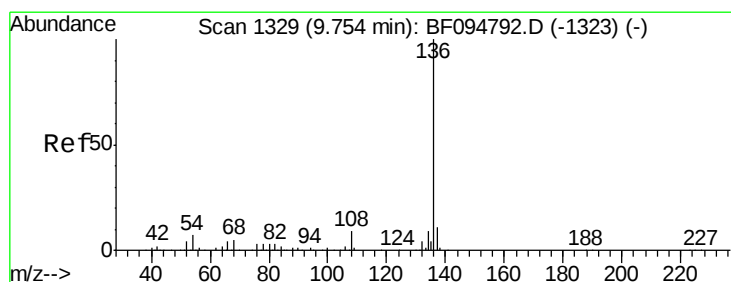
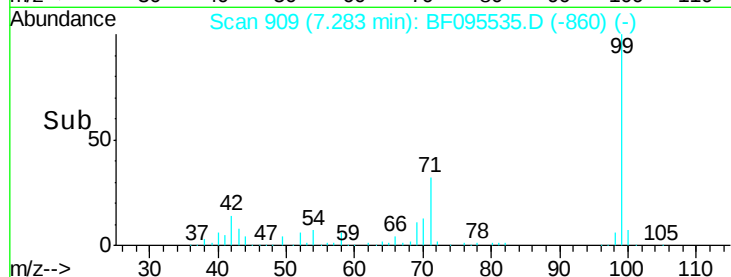
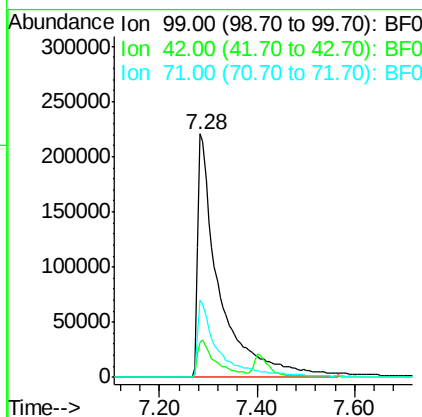
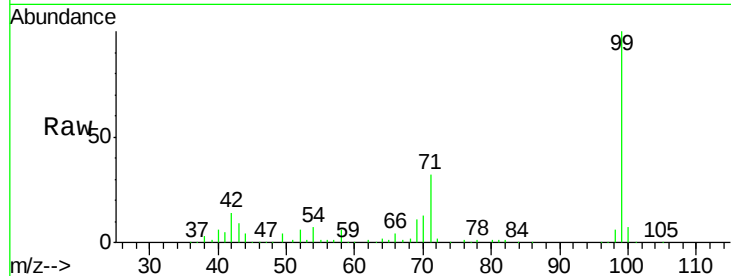
ClientSampleId :

R1-TP5-D34

Tgt Ion:	99	Resp:	686598
Ion Ratio	Lower	Upper	
99	100		
42	14.4	13.5	20.3
71	31.5	24.5	36.7

Manual Integrations
APPROVED

mohammad
5/31/2017 5:02:24 PM



#21

Naphthalene-d8

Concen: 20.00 ng

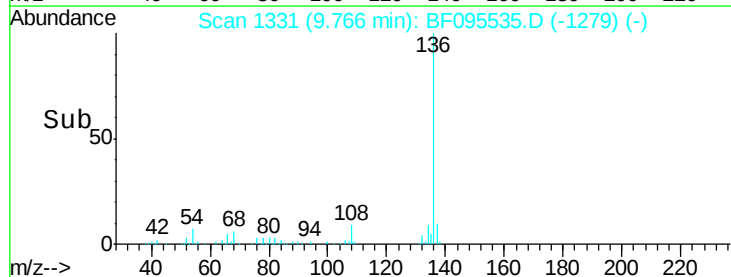
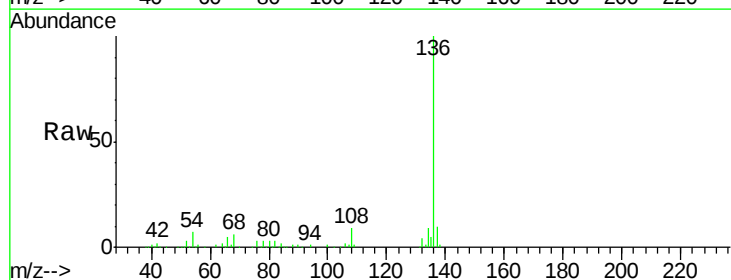
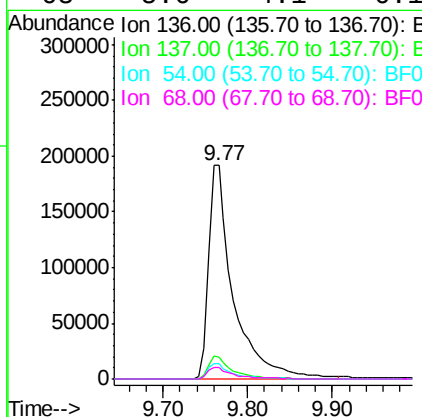
RT: 9.77 min Scan# 1331

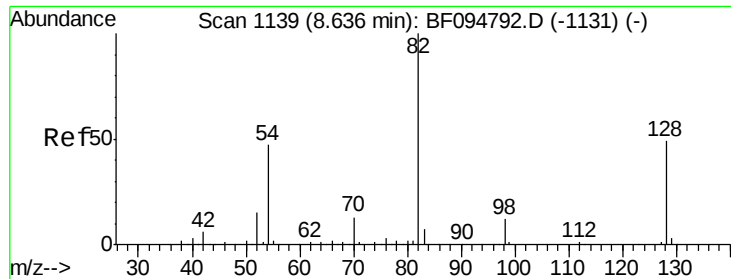
Delta R.T. 0.01 min

Lab File: BF095535.D

Acq: 30 May 2017 15:03

Tgt Ion:	136	Resp:	394539
Ion Ratio	Lower	Upper	
136	100		
137	10.3	8.5	12.7
54	6.9	4.9	7.3
68	5.6	4.1	6.1





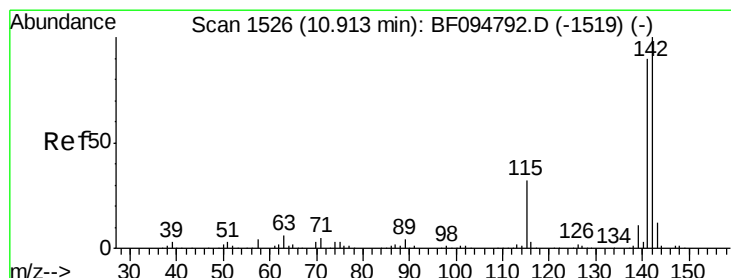
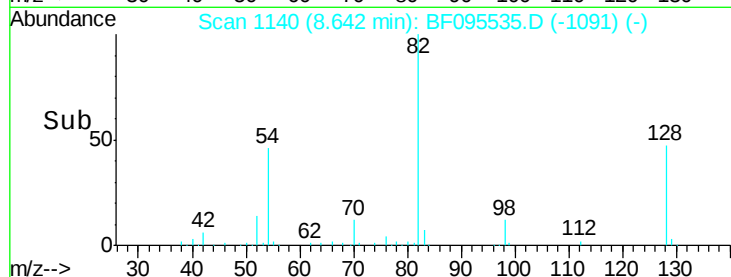
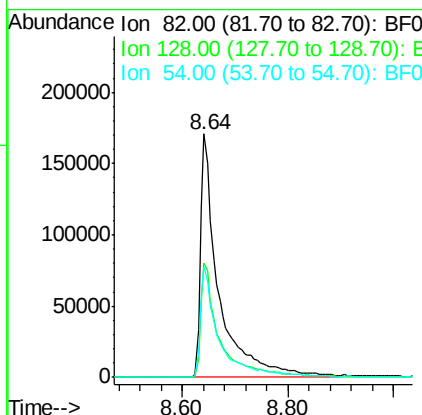
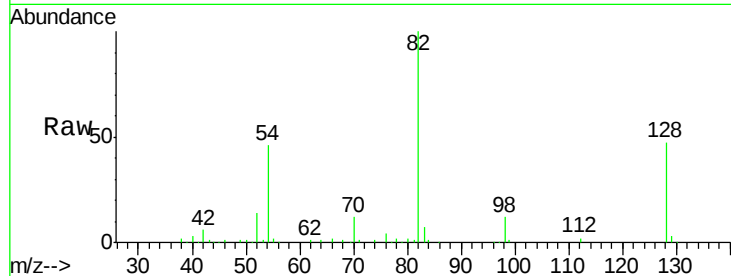
#23
Nitrobenzene-d5
Concen: 66.23 ng
RT: 8.64 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	414377		
128	46.8	34.0	51.0	
54	45.5	42.2	63.2	

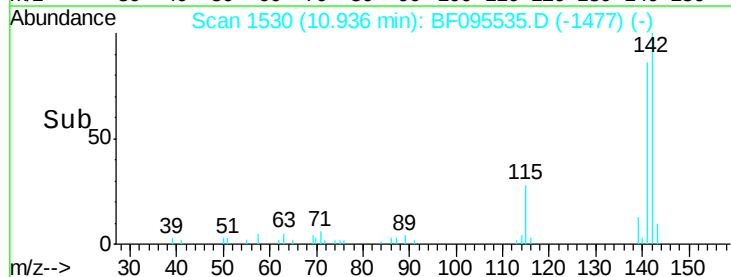
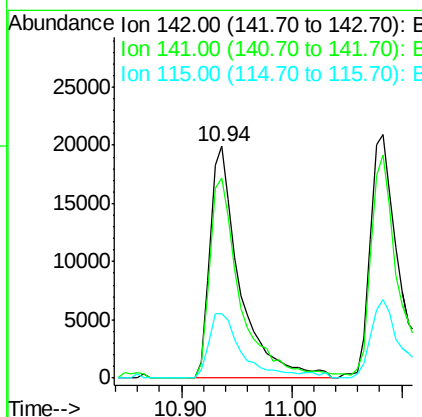
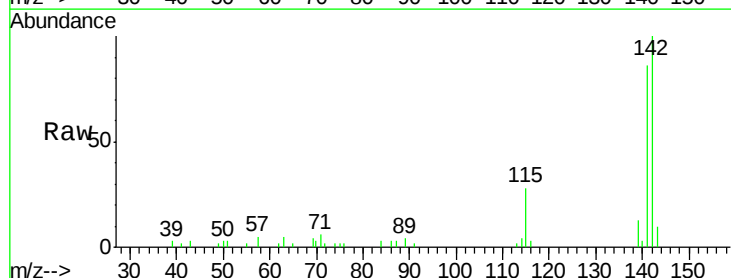
Manual Integrations
APPROVED

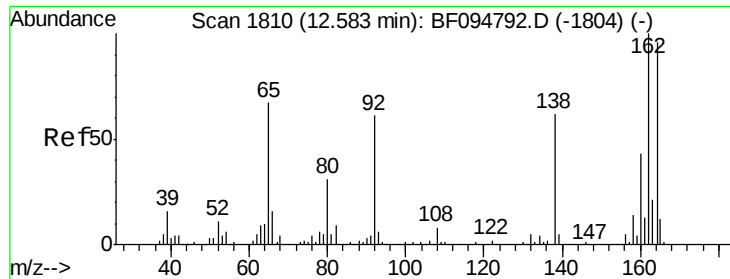
mohammad
5/31/2017 5:02:24 PM



#37
2-Methylnaphthalene
Concen: 2.82 ng
RT: 10.94 min Scan# 1530
Delta R.T. 0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	36727		
141	86.5	71.3	106.9	
115	28.0	27.1	40.7	





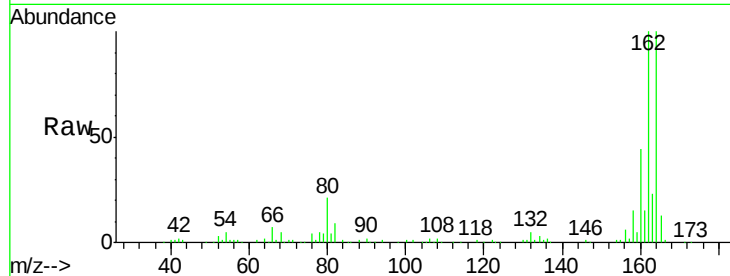
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.59 min Scan# 1811
 Delta R.T. -0.01 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP5-D34

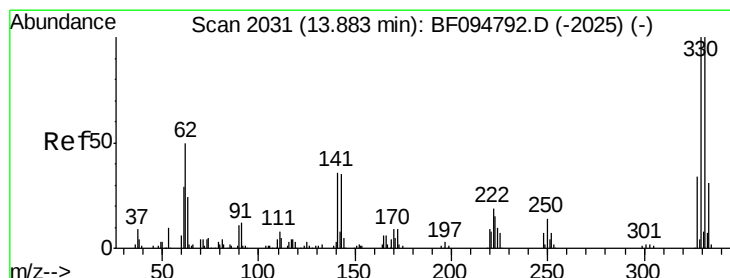
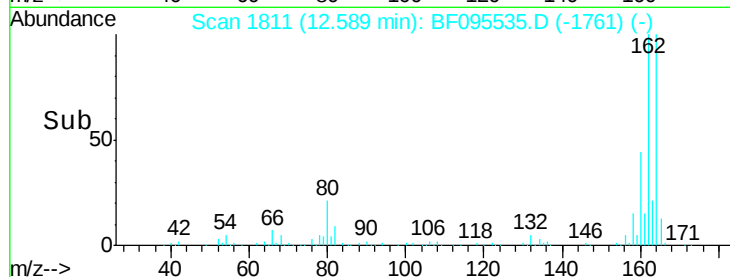
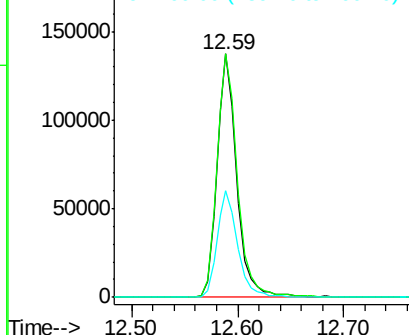
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	180938		
162	100.2	82.6	123.8	
160	43.9	36.2	54.2	

Manual Integrations
 APPROVED

mohammad
 5/31/2017 5:02:24 PM

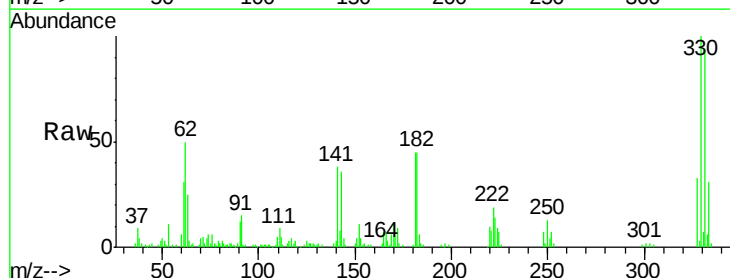


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

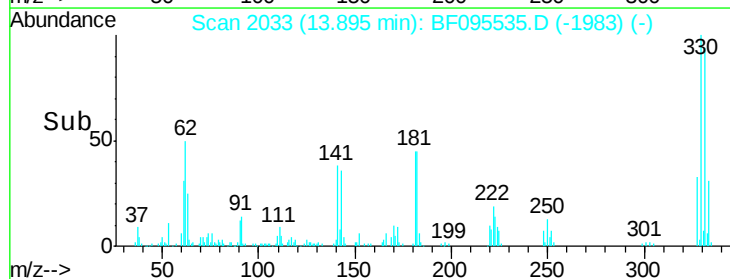
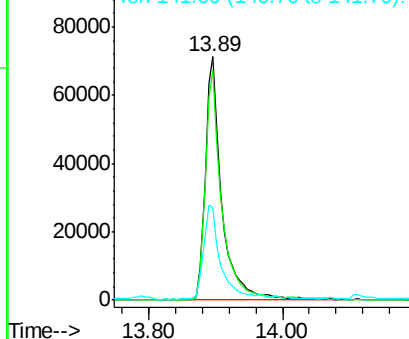


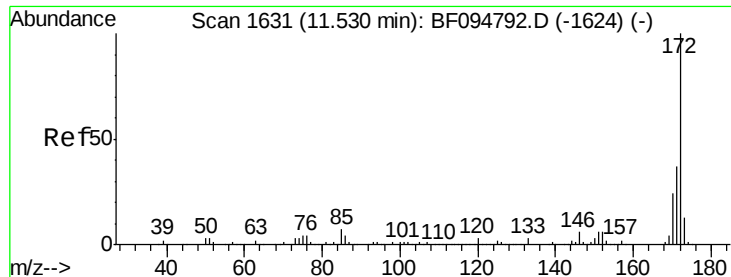
#41
 2,4,6-Tribromophenol
 Concen: 82.26 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. -0.01 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	121899		
332	93.3	76.6	115.0	
141	41.6	31.4	47.2	



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





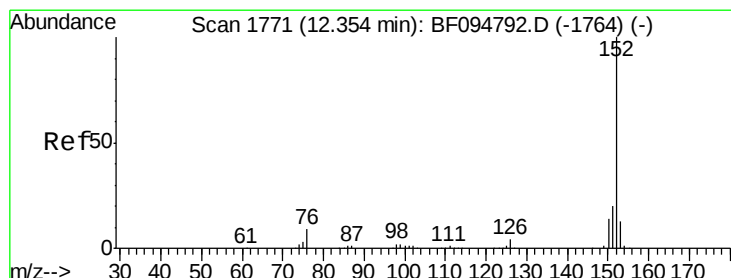
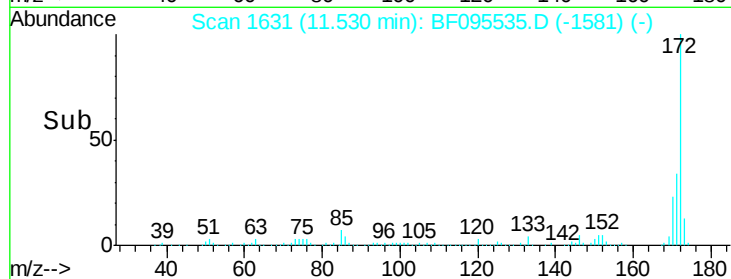
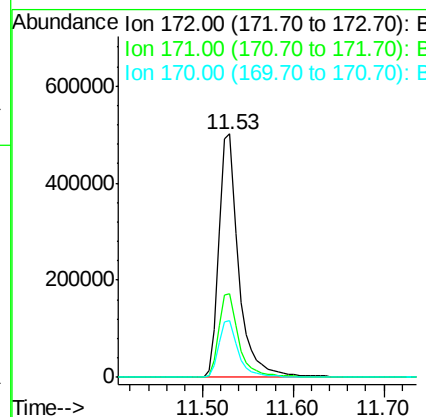
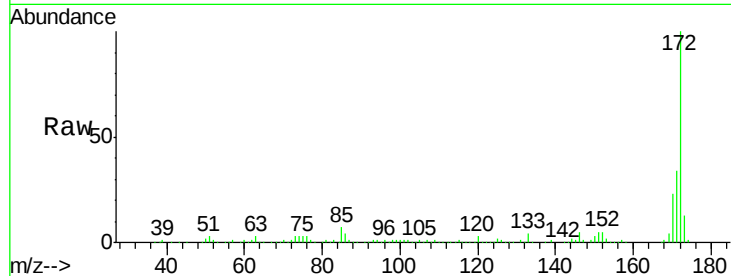
#44
 2-Fluorobiphenyl
 Concen: 60.40 ng
 RT: 11.53 min Scan# 1631
 Delta R.T. -0.01 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP5-D34

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	759271		
171	34.5	29.6	44.4	
170	23.5	19.8	29.8	

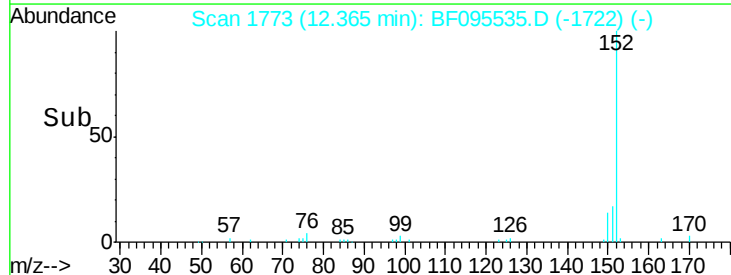
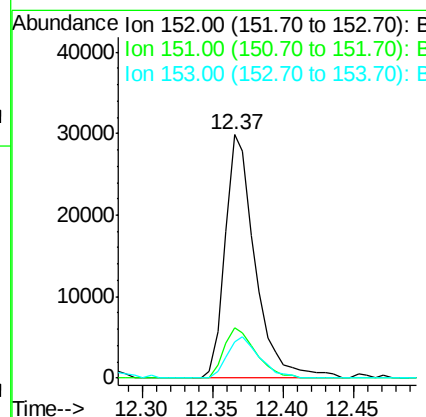
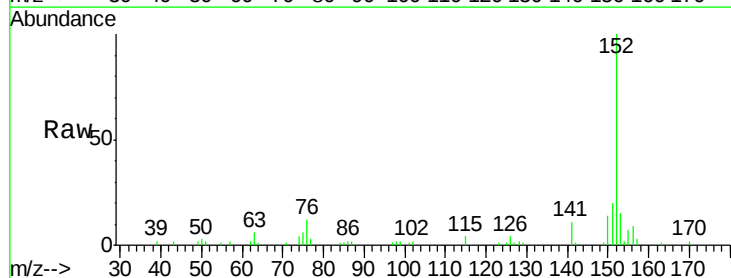
Manual Integrations
 APPROVED

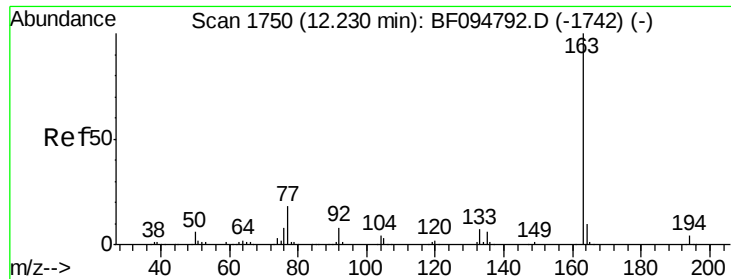
mohammad
 5/31/2017 5:02:24 PM



#48
 Acenaphthylene
 Concen: 2.29 ng
 RT: 12.37 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	44044		
151	20.4	16.8	25.2	
153	15.0	10.8	16.2	





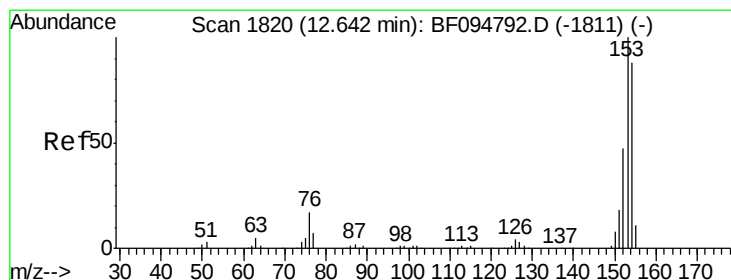
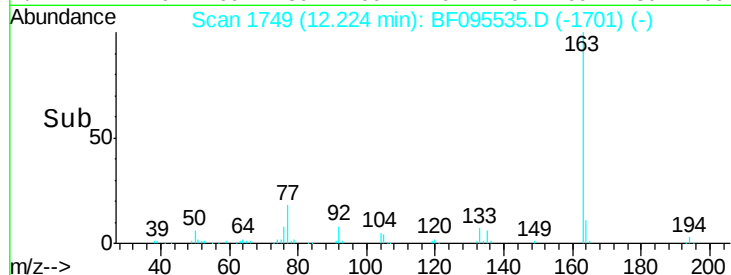
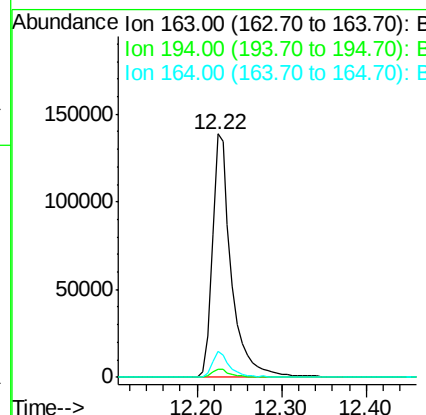
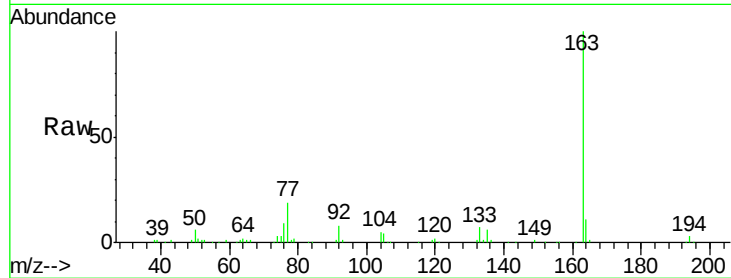
#49
Dimethylphthalate
Concen: 14.78 ng
RT: 12.22 min Scan# 1749
Delta R.T. -0.02 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	219495		
194	3.4	2.6	4.0	
164	10.7	8.4	12.6	

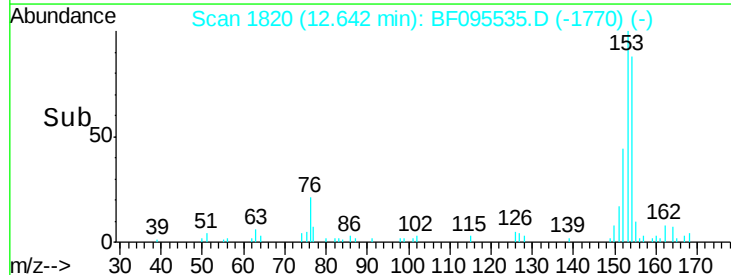
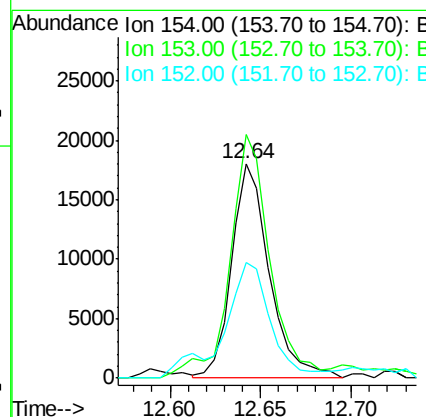
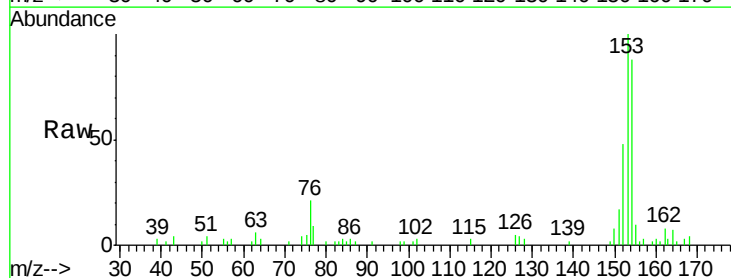
Manual Integrations
APPROVED

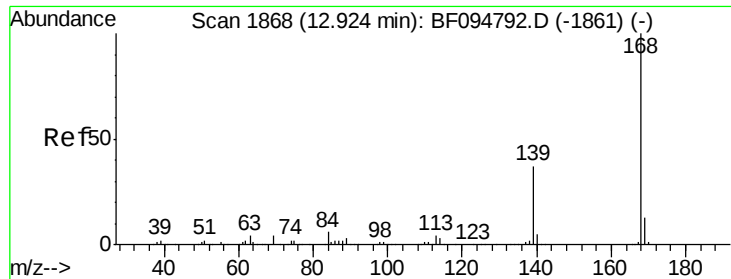
mohammad
5/31/2017 5:02:24 PM



#51
Acenaphthene
Concen: 2.27 ng
RT: 12.64 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	26166		
153	113.6	90.5	135.7	
152	54.2	43.6	65.4	





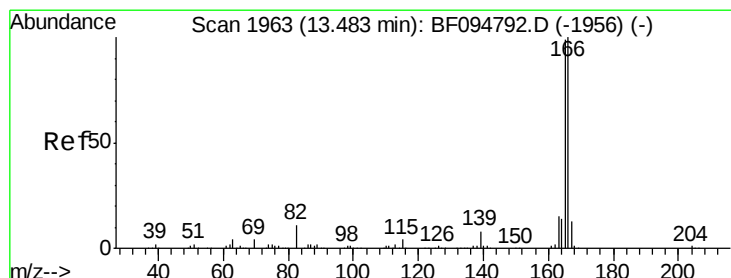
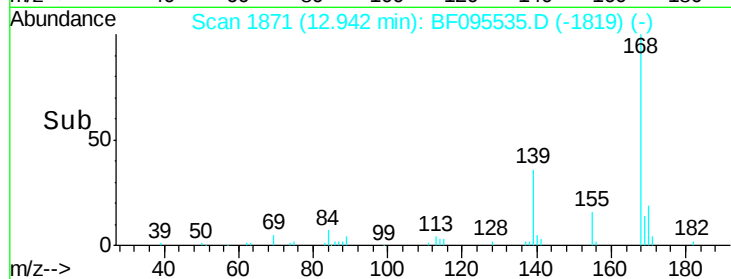
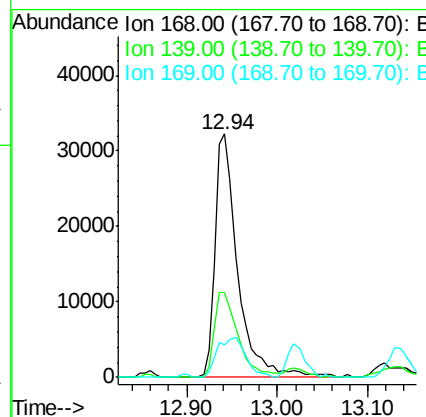
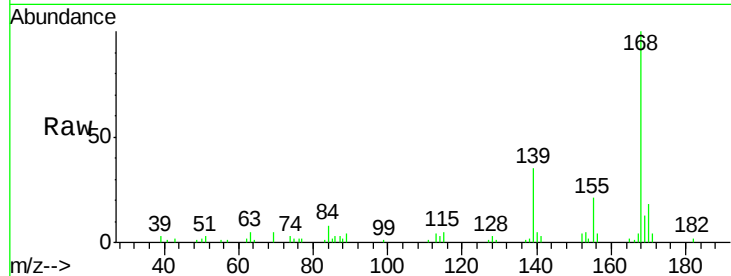
#54
Dibenzenofuran
Concen: 3.53 ng
RT: 12.94 min Scan# 1871
Delta R.T. 0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.9	30.6	45.8
169	13.2	10.8	16.2

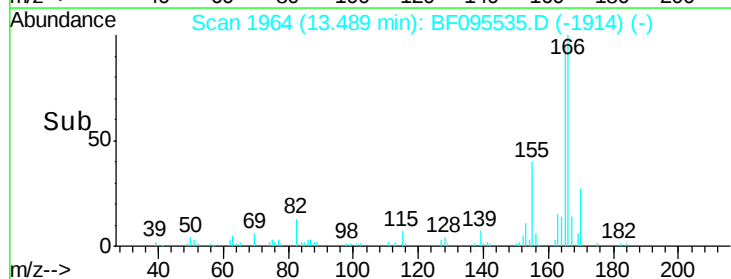
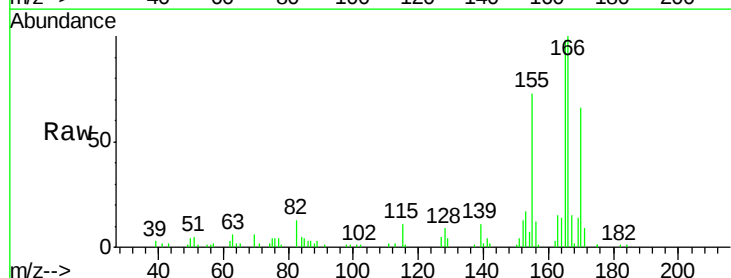
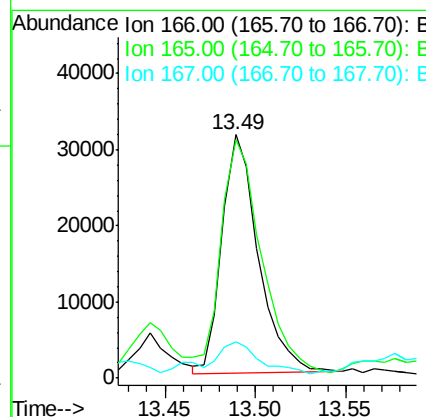
Manual Integrations
APPROVED

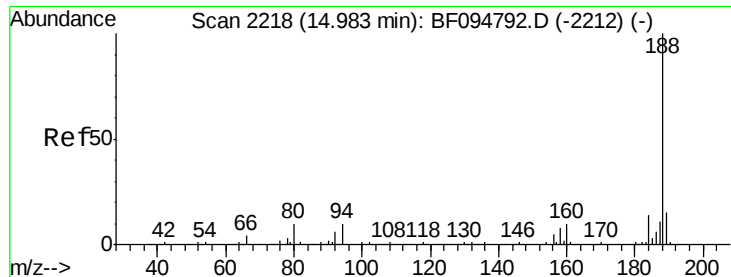
mohammad
5/31/2017 5:02:24 PM



#57
Fluorene
Concen: 3.13 ng
RT: 13.49 min Scan# 1964
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.8	118.2
167	15.0	10.6	16.0





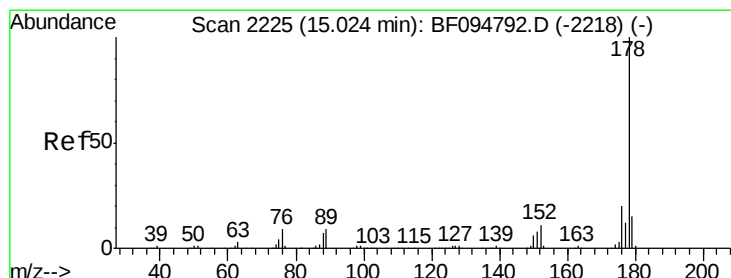
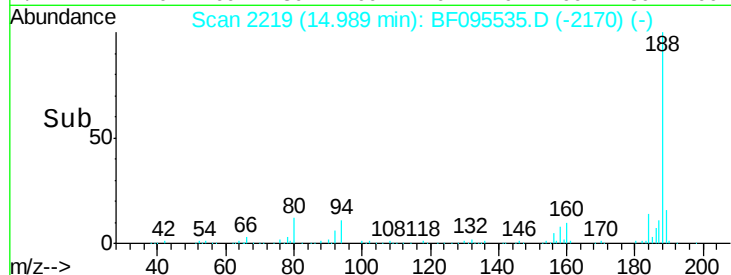
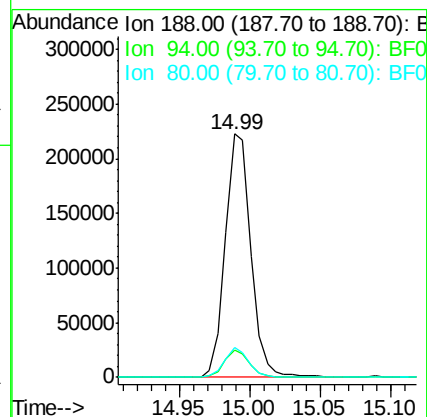
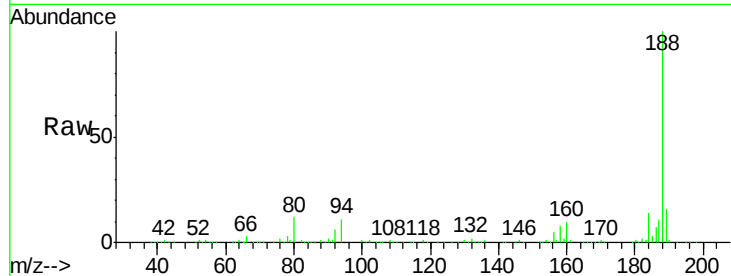
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.99 min Scan# 2219
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	11.3	9.4	14.2
80	12.4	10.2	15.2

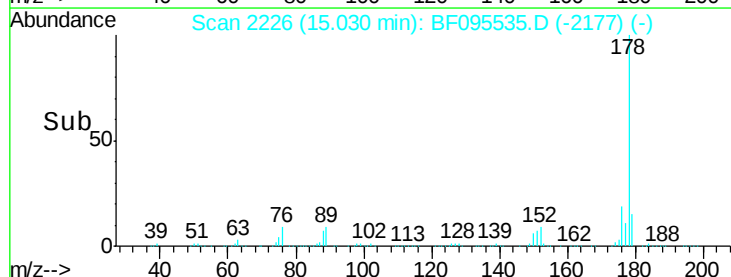
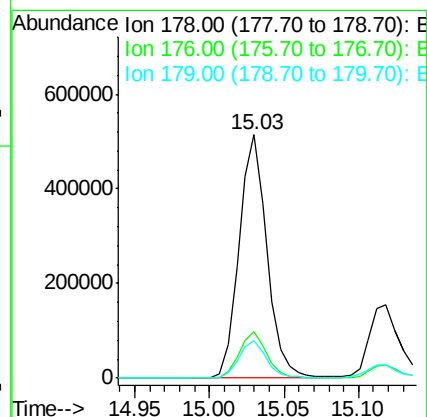
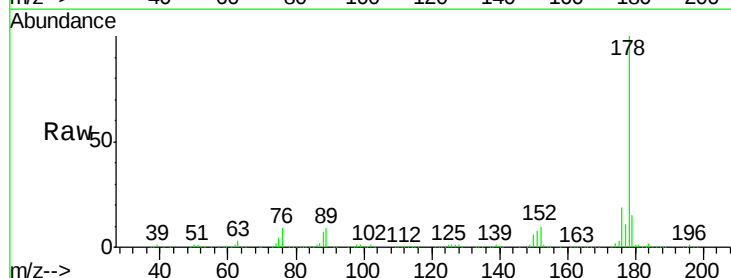
Manual Integrations
APPROVED

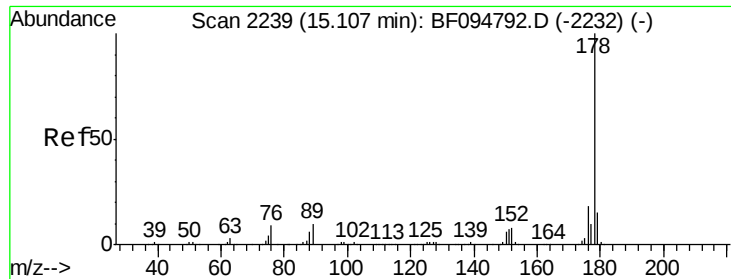
mohammad
5/31/2017 5:02:24 PM



#70
Phenanthrene
Concen: 41.79 ng
RT: 15.03 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.9	16.2	24.4
179	15.3	12.6	19.0





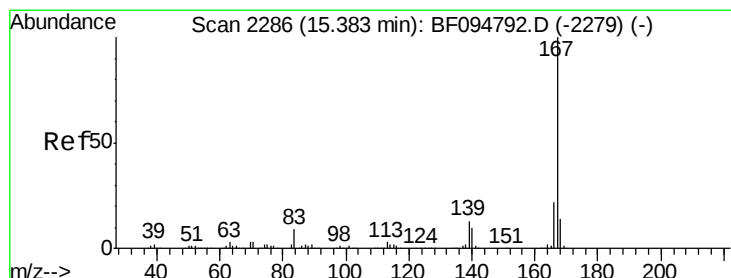
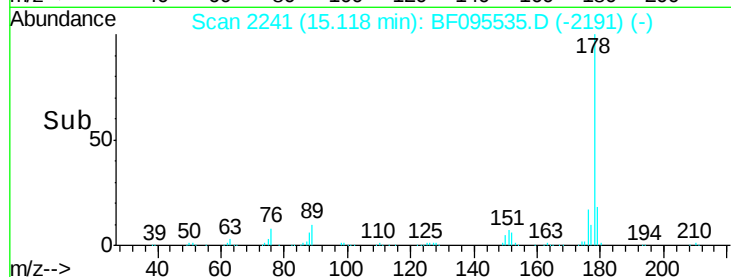
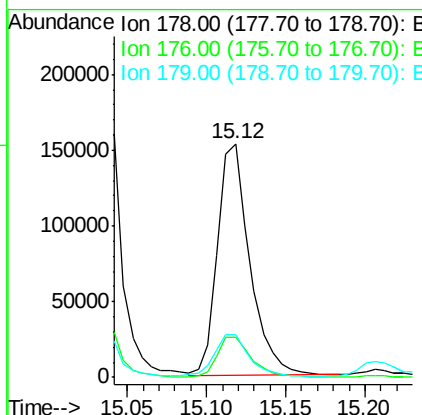
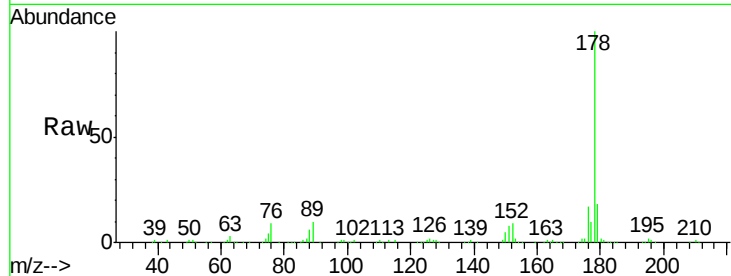
#71
 Anthracene
 Concen: 13.17 ng
 RT: 15.12 min Scan# 2241
 Delta R.T. -0.01 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP5-D34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.3	15.8	23.8
179	18.2	12.7	19.1

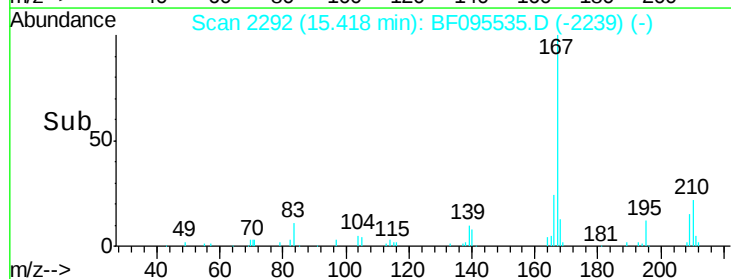
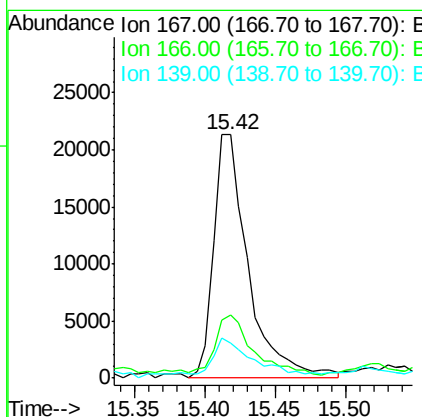
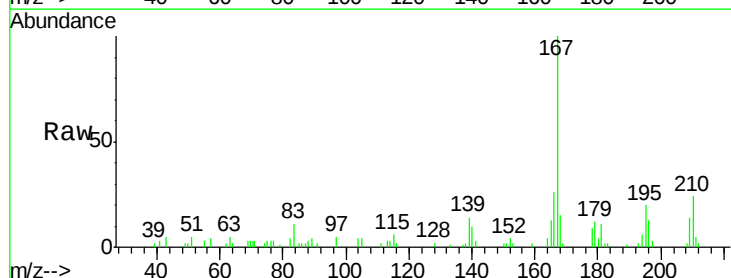
Manual Integrations
 APPROVED

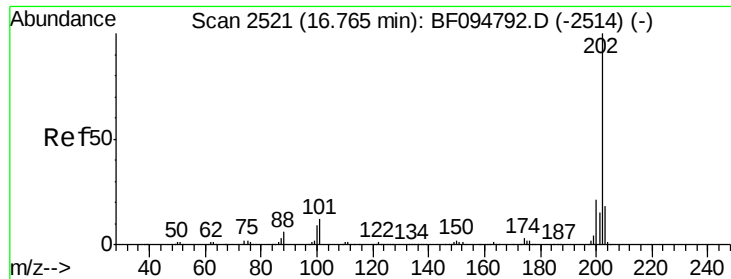
mohammad
 5/31/2017 5:02:24 PM



#72
 Carbazole
 Concen: 2.44 ng
 RT: 15.42 min Scan# 2292
 Delta R.T. 0.01 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	25.9	18.1	27.1
139	14.5	11.7	17.5





#74

Fluoranthene

Concen: 35.05 ng

RT: 16.78 min Scan# 2523

Delta R.T. -0.01 min

Lab File: BF095535.D

Acq: 30 May 2017 15:03

Instrument :

BNA_F

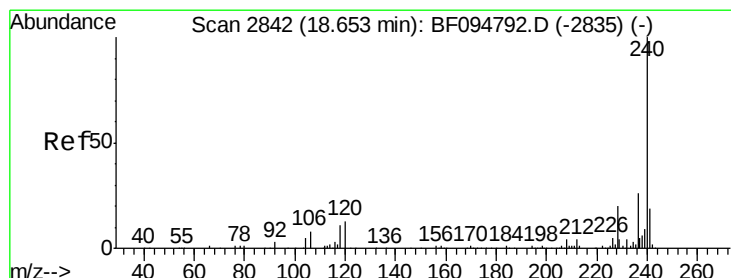
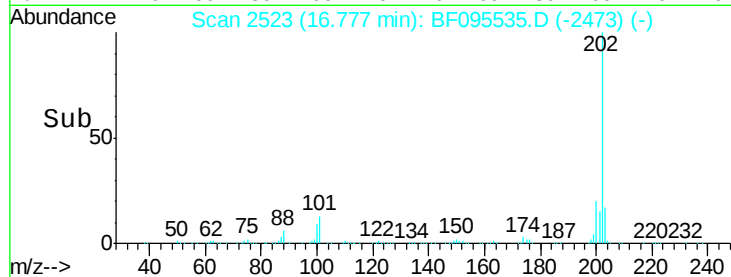
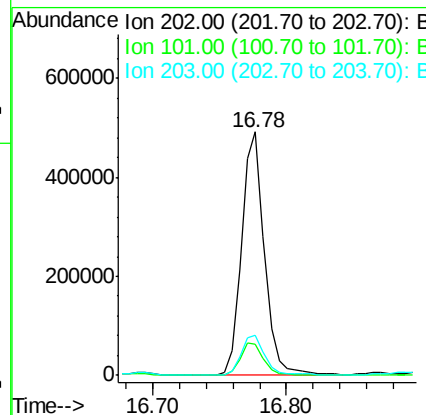
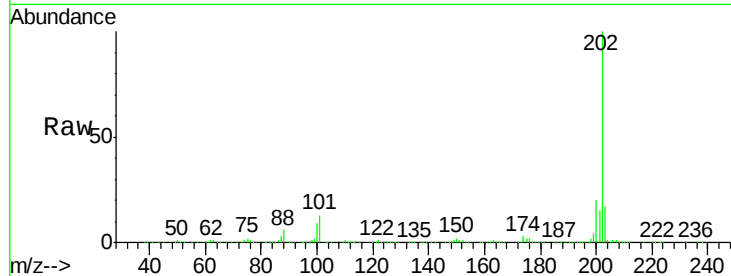
ClientSampleId :

R1-TP5-D34

Tgt Ion:	202	Resp:	580177
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	33.2
203	16.7	0.0	38.1

Manual Integrations
APPROVED

mohammad
5/31/2017 5:02:24 PM



#75

Chrysene-d12

Concen: 20.00 ng

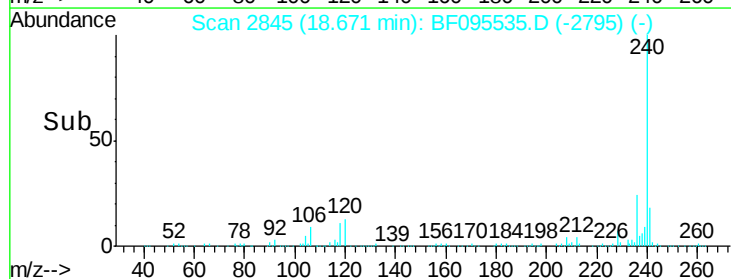
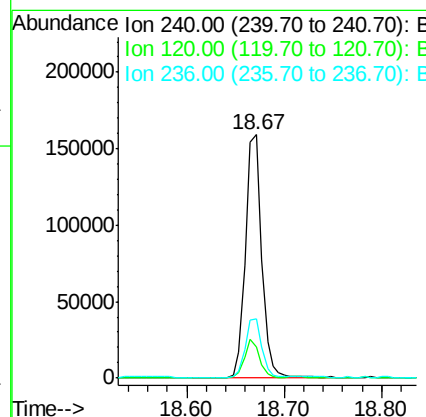
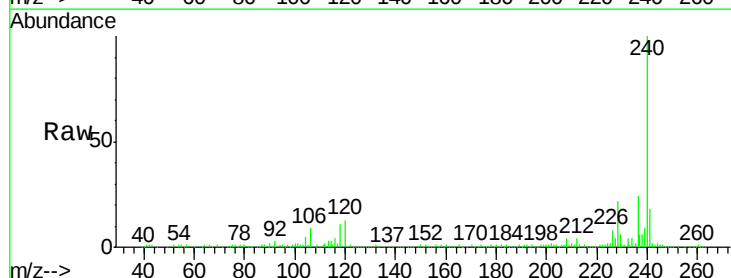
RT: 18.67 min Scan# 2845

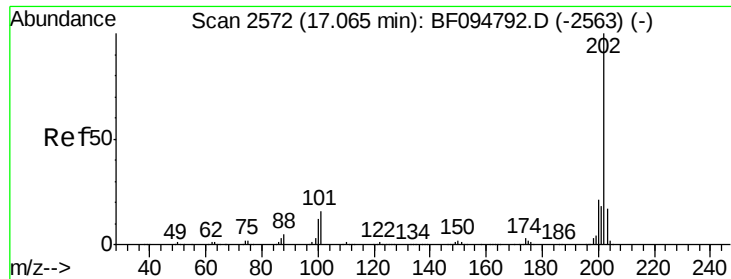
Delta R.T. -0.01 min

Lab File: BF095535.D

Acq: 30 May 2017 15:03

Tgt Ion:	240	Resp:	187183
Ion Ratio	Lower	Upper	
240	100		
120	13.0	5.8	8.8#
236	24.3	20.5	30.7





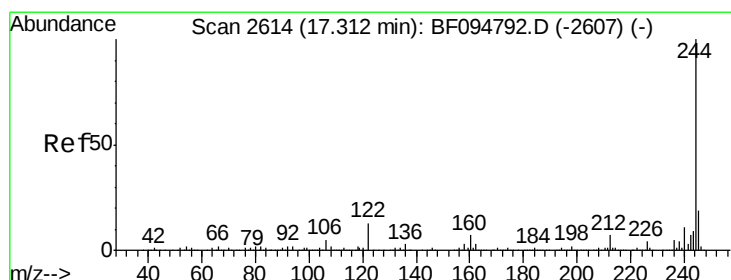
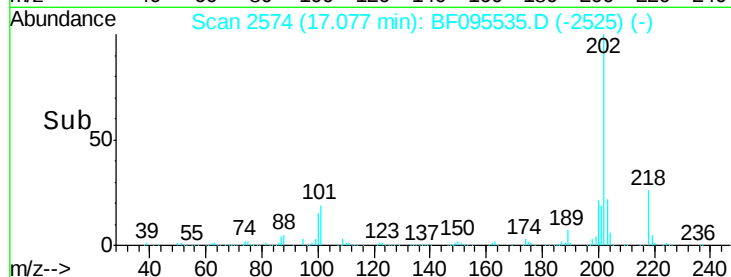
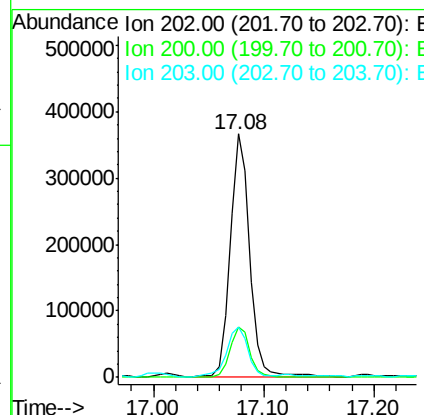
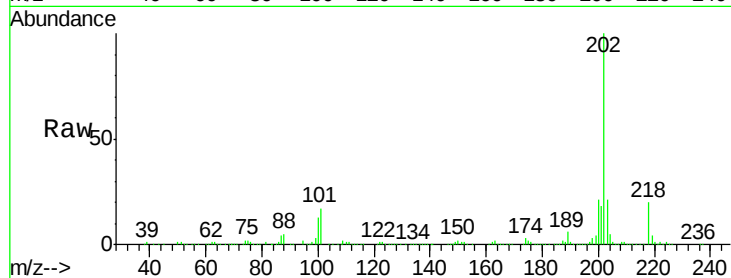
#77
 Pyrene
 Concen: 31.92 ng
 RT: 17.08 min Scan# 2574
 Delta R.T. -0.01 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP5-D34

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.8	17.6	26.4
203	20.9	14.4	21.6

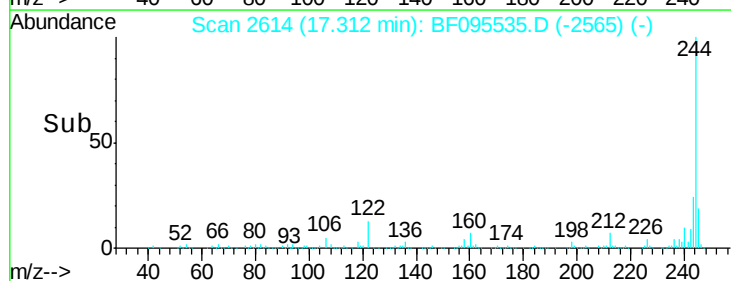
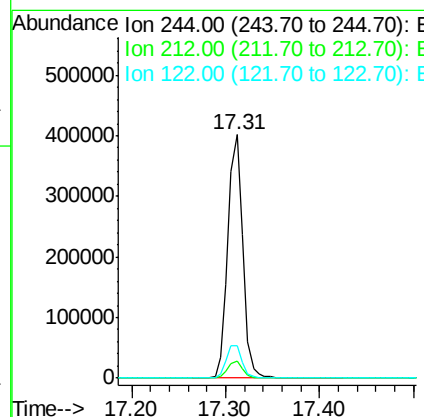
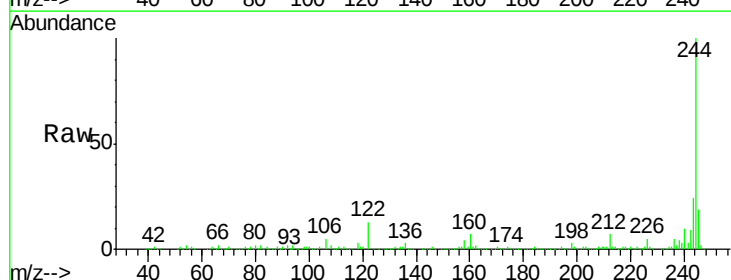
Manual Integrations
 APPROVED

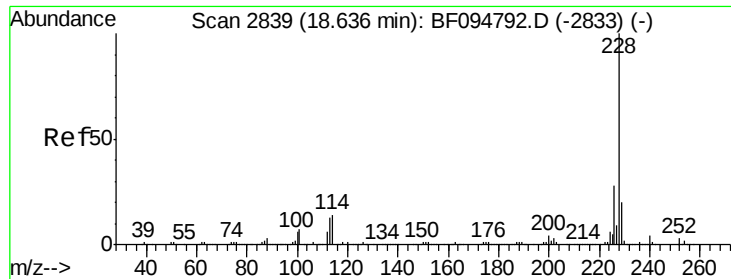
mohammad
 5/31/2017 5:02:24 PM



#78
 Terphenyl-d14
 Concen: 52.73 ng
 RT: 17.31 min Scan# 2614
 Delta R.T. -0.01 min
 Lab File: BF095535.D
 Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.9	6.0	9.0
122	13.4	10.3	15.5





#80

Benzo(a)anthracene

Concen: 20.40 ng

RT: 18.66 min Scan# 2843

Delta R.T. -0.01 min

Lab File: BF095535.D

Acq: 30 May 2017 15:03

Instrument :

BNA_F

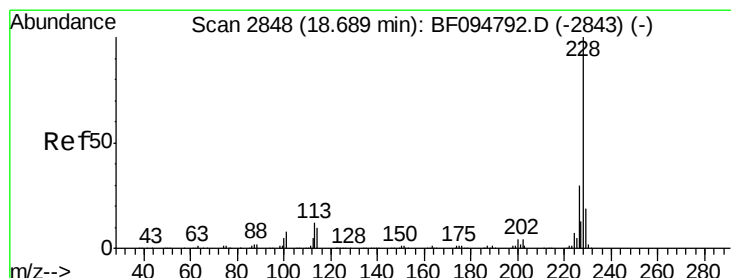
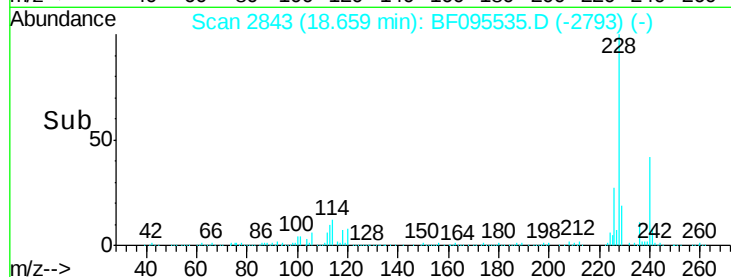
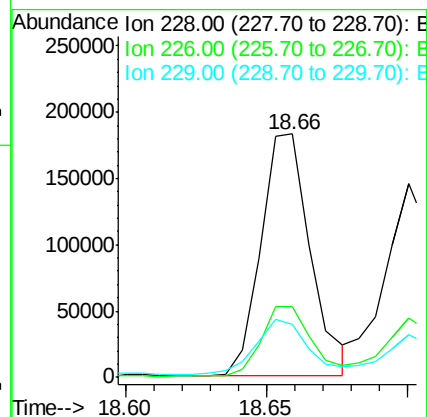
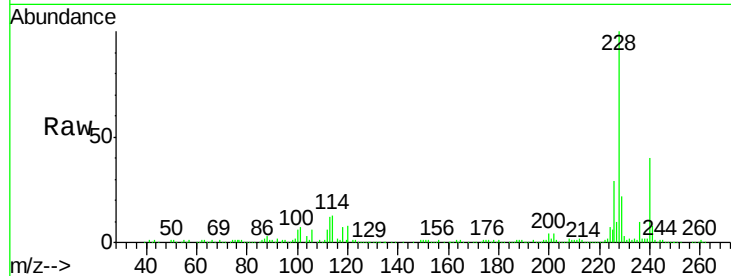
ClientSampleId :

R1-TP5-D34

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	29.2	22.6	33.8	
229	22.0	16.3	24.5	

Manual Integrations
APPROVED

mohammad
5/31/2017 5:02:24 PM



#82

Chrysene

Concen: 17.90 ng

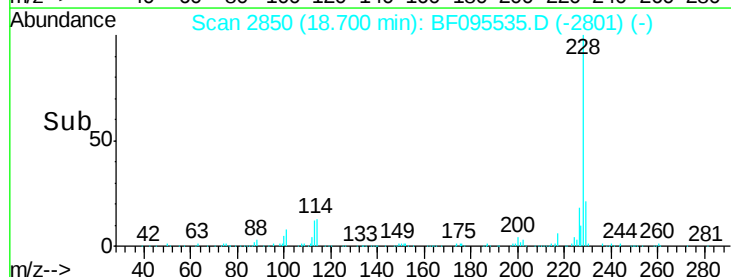
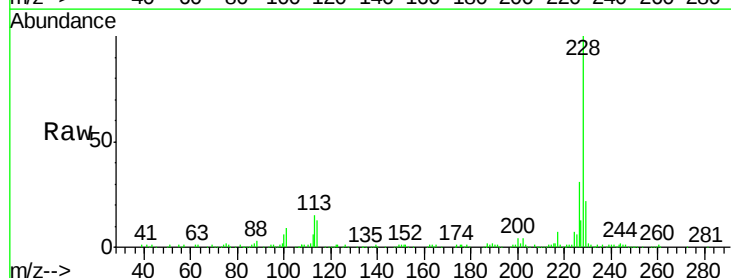
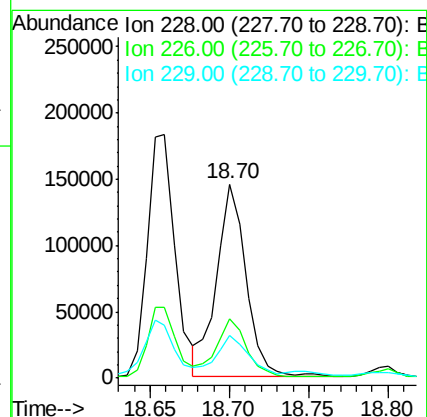
RT: 18.70 min Scan# 2850

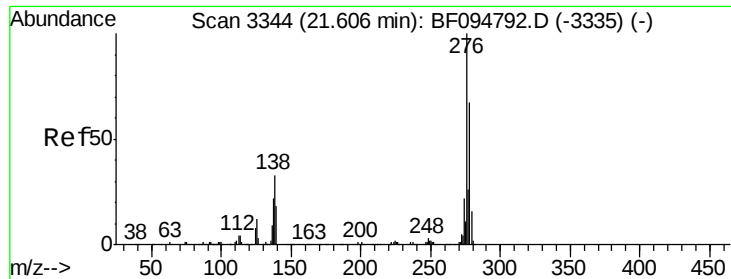
Delta R.T. -0.01 min

Lab File: BF095535.D

Acq: 30 May 2017 15:03

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	30.8	24.9	37.3	
229	22.0	15.8	23.6	





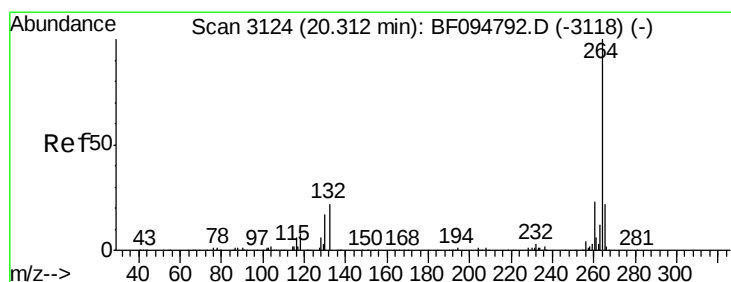
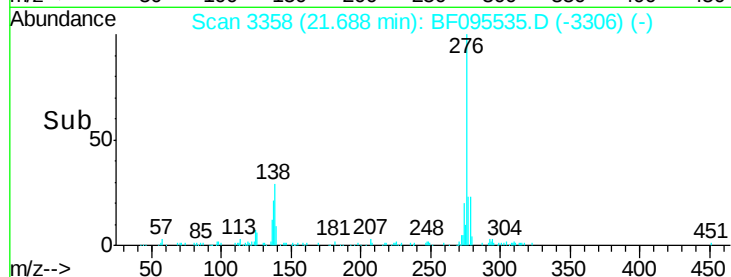
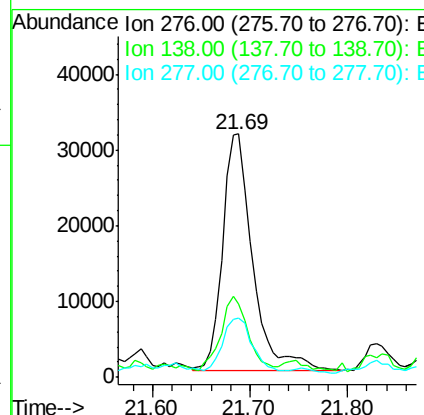
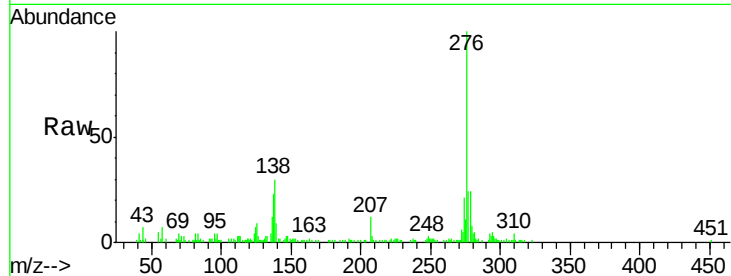
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.74 ng
RT: 21.69 min Scan# 3358
Delta R.T. 0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.6	27.8	41.6
277	22.5	20.2	30.4

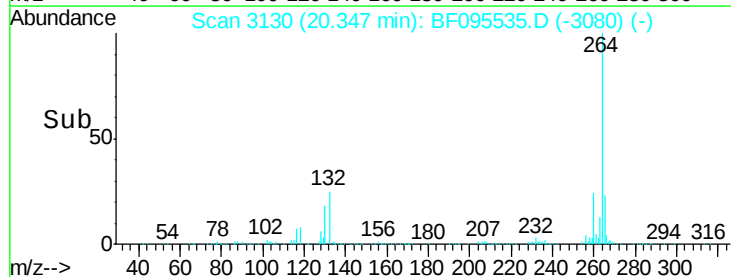
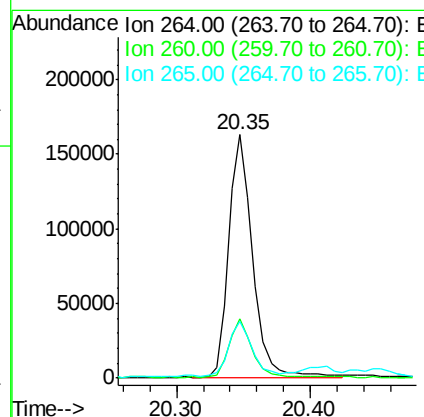
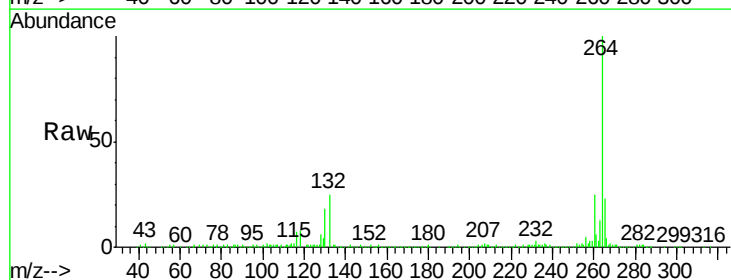
Manual Integrations
APPROVED

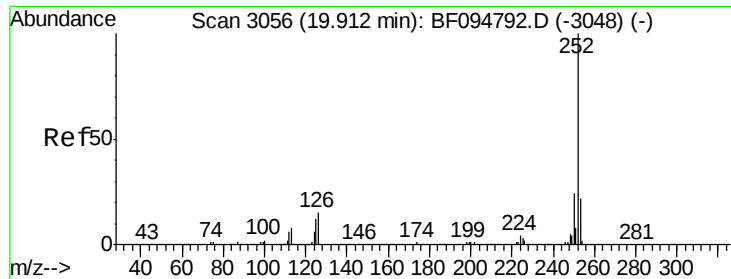
mohammad
5/31/2017 5:02:24 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3130
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	23.1	17.2	25.8





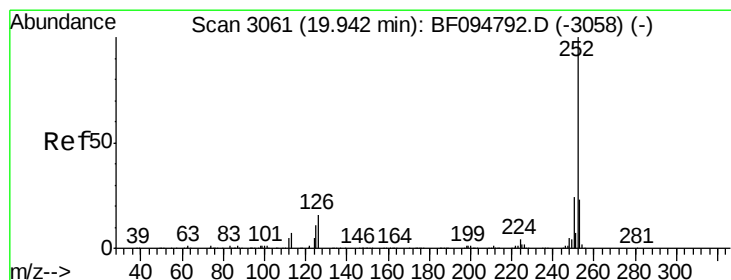
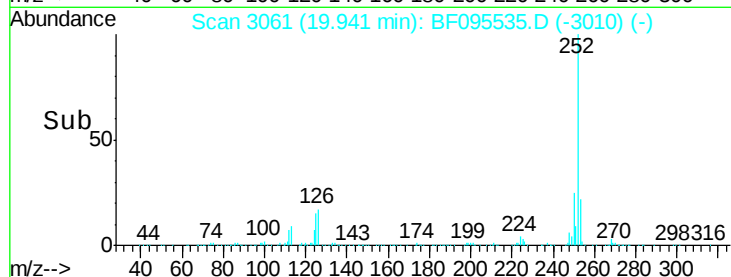
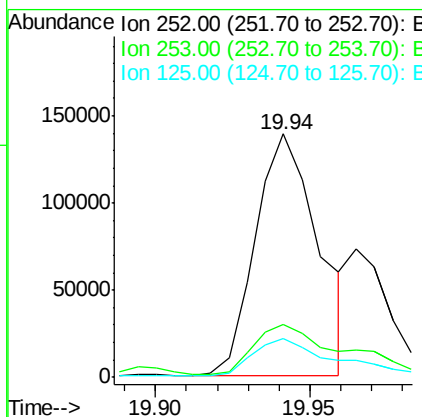
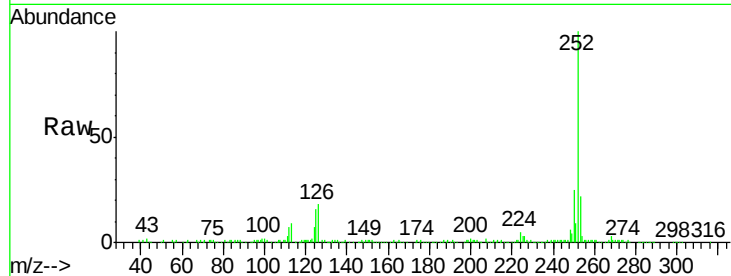
#87
Benzo(b)fluoranthene
Concen: 15.47 ng m
RT: 19.94 min Scan# 3061
Delta R.T. -0.00 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	15.7	9.8	14.8

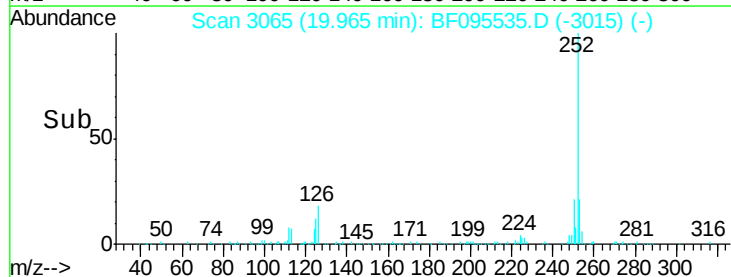
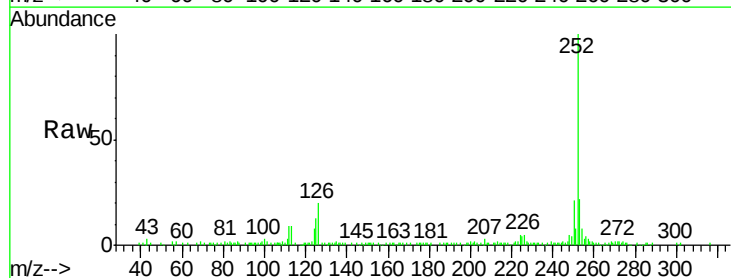
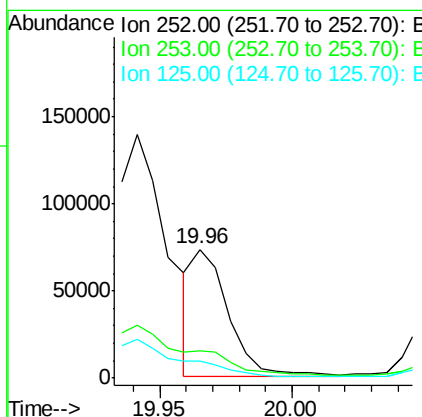
Manual Integrations
APPROVED

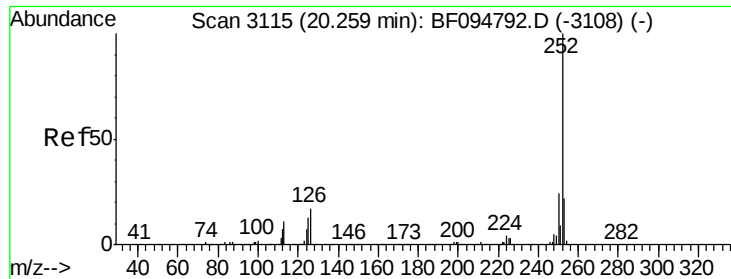
mohammad
5/31/2017 5:02:24 PM



#88
Benzo(k)fluoranthene
Concen: 5.62 ng m
RT: 19.96 min Scan# 3065
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.4	27.6
125	13.2	13.1	19.7





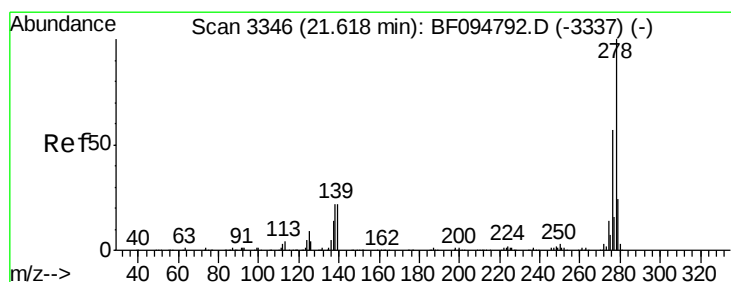
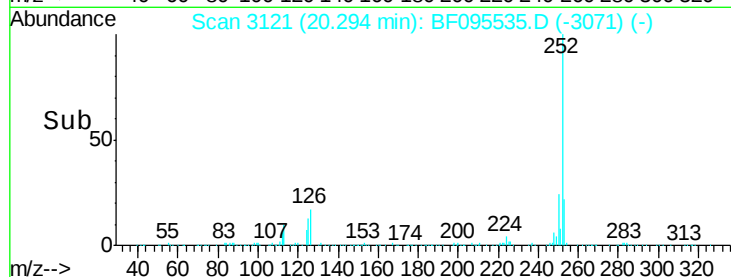
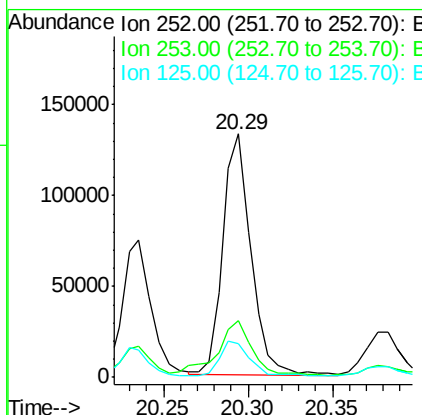
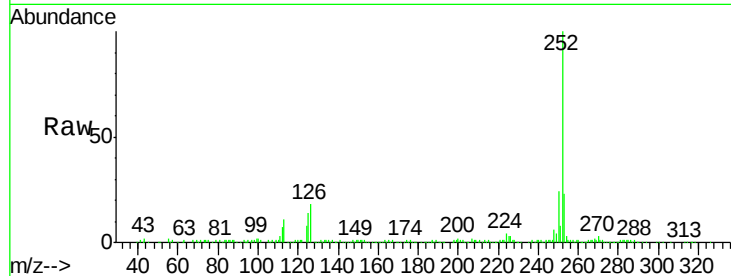
#89
Benzo(a)pyrene
Concen: 13.30 ng
RT: 20.29 min Scan# 3121
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	155187		
253	23.1	17.5	26.3	
125	13.8	11.0	16.4	

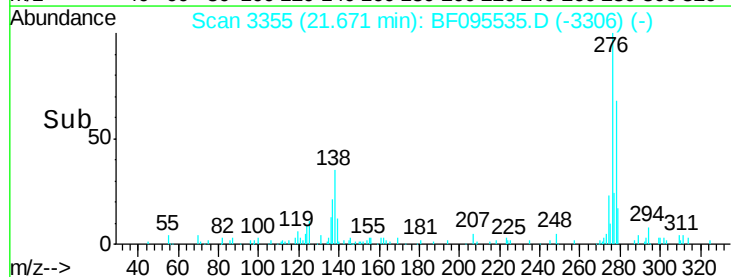
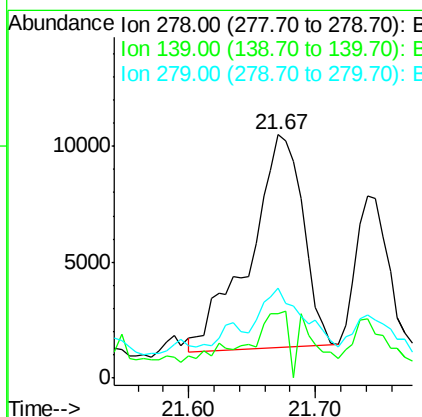
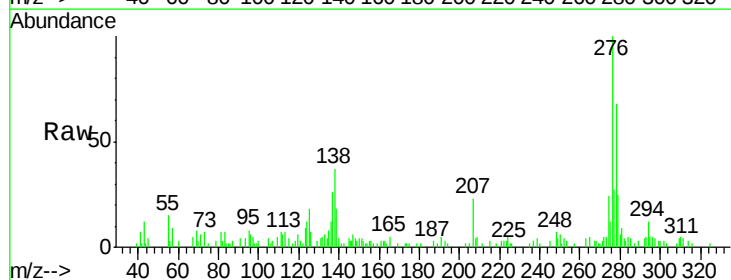
Manual Integrations
APPROVED

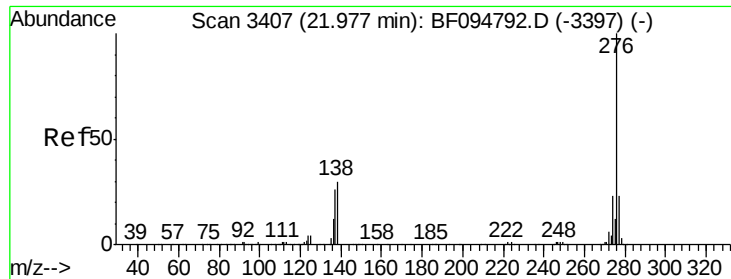
mohammad
5/31/2017 5:02:24 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.77 ng
RT: 21.67 min Scan# 3355
Delta R.T. -0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	26688		
139	26.3	16.6	24.8#	
279	36.7	19.3	28.9#	





#91
Benzo(g,h,i)perylene
Concen: 5.37 ng
RT: 22.08 min Scan# 3424
Delta R.T. 0.01 min
Lab File: BF095535.D
Acq: 30 May 2017 15:03

Instrument :
BNA_F
ClientSampleId :
R1-TP5-D34

Tgt Ion:	276	Resp:	50759
Ion Ratio		Lower	Upper
276	100		
277	24.3	18.6	28.0
138	35.2	25.4	38.0

Manual Integrations
APPROVED

mohammad
5/31/2017 5:02:24 PM

