

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
 Data File : BF095154.D
 Acq On : 16 May 2017 12:21
 Operator : SJ/MA
 Sample : I3140-09 10X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TB-12-6

Manual Integrations
 APPROVED

mohammad
 5/17/2017 2:21:12 PM

Quant Time: May 16 16:15:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	58457	20.00	ng	0.05
21) Naphthalene-d8	9.80	136	244245	20.00	ng	0.04
38) Acenaphthene-d10	12.62	164	100043	20.00	ng	0.04
63) Phenanthrene-d10	15.03	188	155622	20.00	ng	0.05
75) Chrysene-d12	18.70	240	165538	20.00	ng	0.05
86) Perylene-d12	20.38	264	120832	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.96	112	337	0.10	ng	0.28
7) Phenol-d6	7.50	99	1804	0.43	ng	0.22
23) Nitrobenzene-d5	8.79	82	2097	0.54	ng	0.15
41) 2,4,6-Tribromophenol	13.97	330	464	0.57	ng	0.08
44) 2-Fluorobiphenyl	11.58	172	11652	1.68	ng	0.05
78) Terphenyl-d14	17.35	244	9700	1.29	ng	0.04
Target Compounds						Qvalue
31) Naphthalene	9.83	128	73387	5.98	ng	99
51) Acenaphthene	12.68	154	19382	3.05	ng	98
54) Dibenzofuran	12.98	168	22462	2.55	ng	94
57) Fluorene	13.53	166	28562	3.73	ng	99
70) Phenanthrene	15.07	178	184828	20.67	ng	98
71) Anthracene	15.15	178	65457	7.17	ng	98
72) Carbazole	15.45	167	18675	2.25	ng	93
74) Fluoranthene	16.81	202	208820	22.77	ng	98
77) Pyrene	17.11	202	172164	13.91	ng	97
80) Benzo(a)anthracene	18.69	228	70216	7.29	ng	96
82) Chrysene	18.74	228	70025	7.52	ng	97
85) Indeno(1,2,3-cd)pyrene	21.73	276	20275	2.68	ng	93
87) Benzo(b)fluoranthene	19.97	252	61329m	8.21	ng	
88) Benzo(k)fluoranthene	19.99	252	25569m	3.55	ng	
89) Benzo(a)pyrene	20.32	252	34711	5.04	ng	93
91) Benzo(g,h,i)perylene	22.12	276	19869	3.56	ng	# 90

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

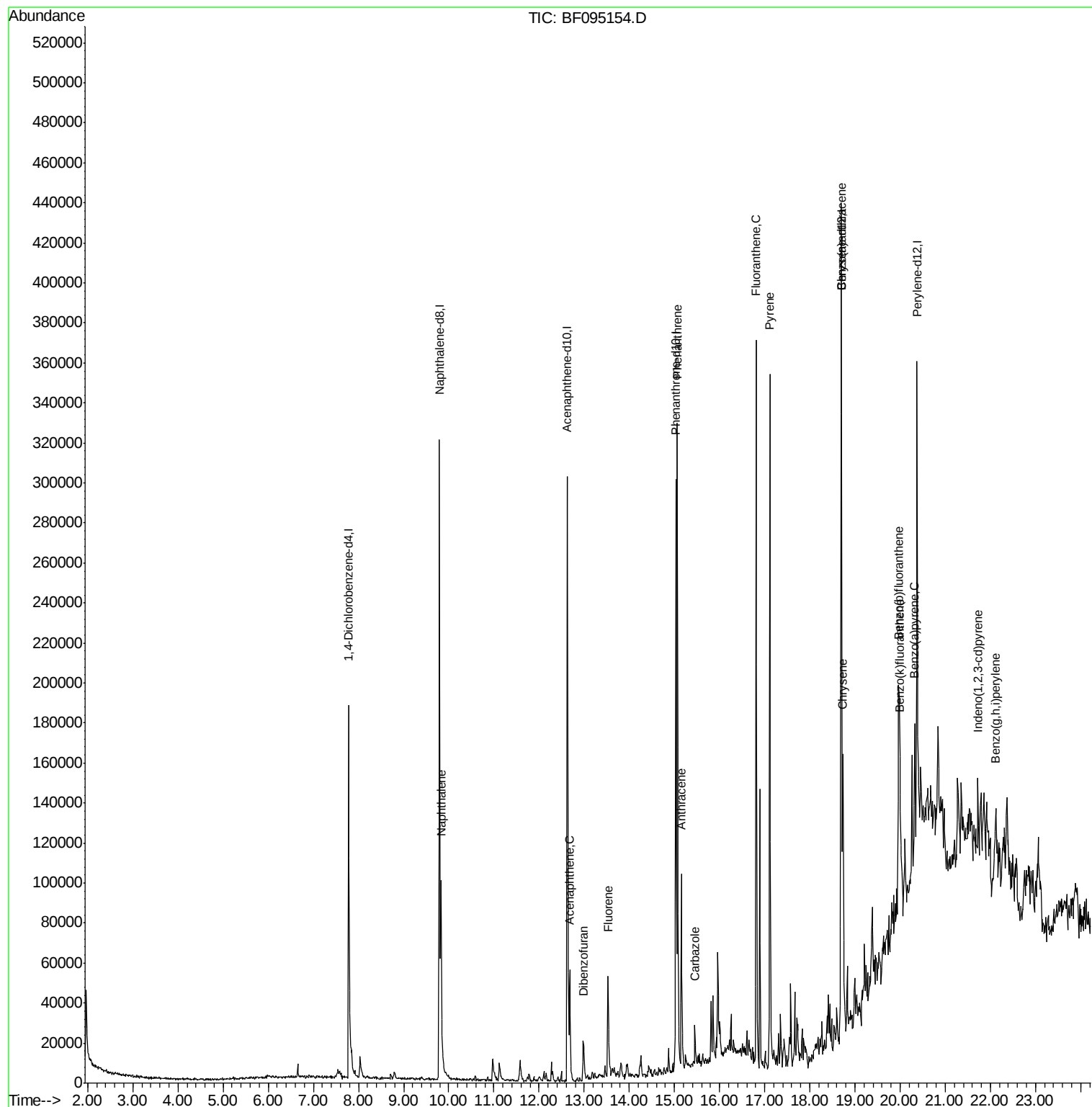
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095154.D
Acq On : 16 May 2017 12:21
Operator : SJ/MA
Sample : I3140-09 10X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
TB-12-6

Manual Integrations
APPROVED

mohammad
5/17/2017 2:21:12 PM

Quant Time: May 16 16:15:20 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 03 17:24:51 2017
Response via : Initial Calibration





#1

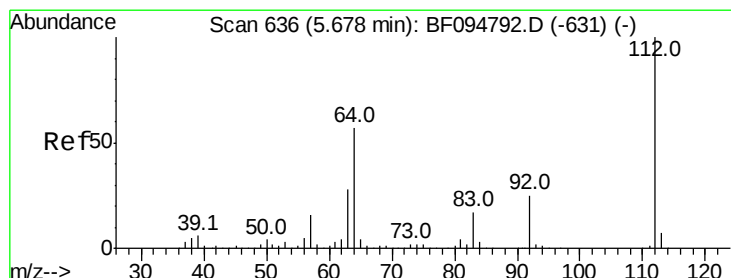
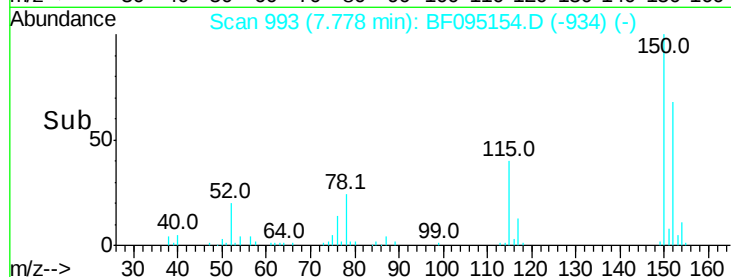
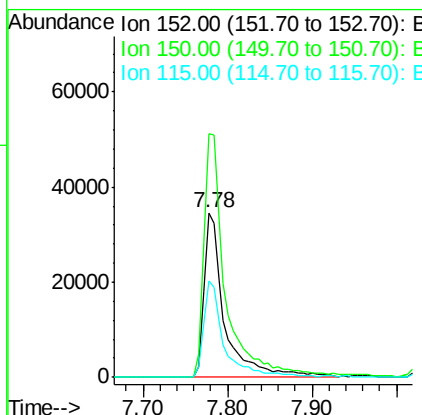
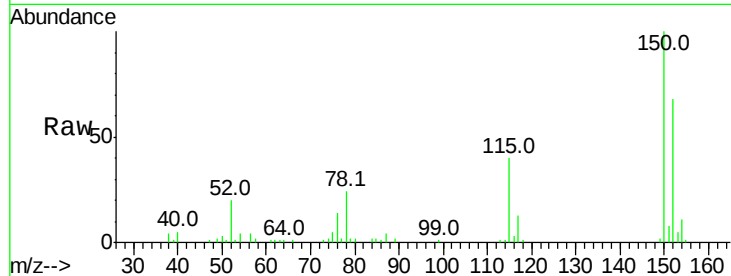
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.78 min Scan# 993
Delta R.T. 0.05 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampleId :
TB-12-6

Tot Ion	Ratio	Lower	Upper
152	100		
150	147.9	126.2	189.2
115	58.8	52.2	78.2

Manual Integrations
APPROVED

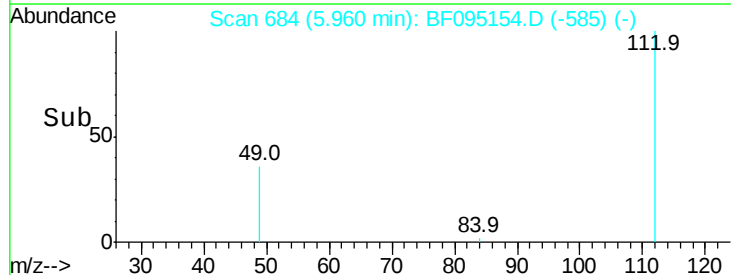
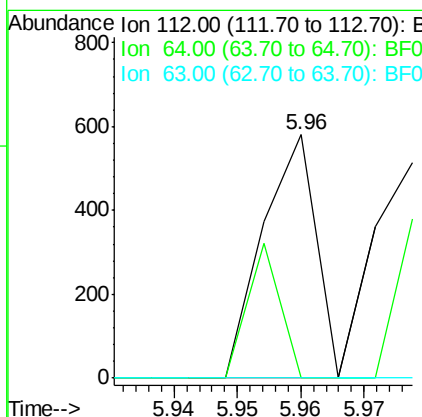
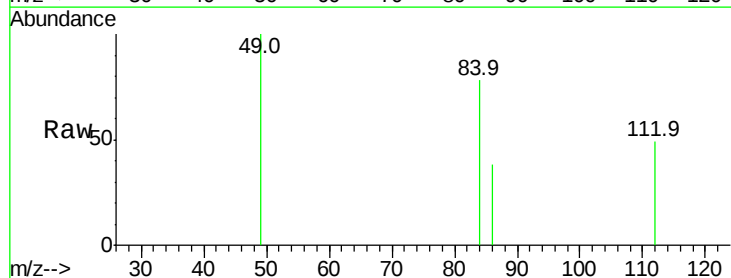
mohammad
5/17/2017 2:21:12 PM



#5

2-Fluorophenol
Concen: 0.10 ng
RT: 5.96 min Scan# 684
Delta R.T. 0.28 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	46.0	69.0#
63	0.0	23.4	35.0#





#7

Phenol-d6

Concen: 0.43 ng

RT: 7.50 min Scan# 946

Delta R.T. 0.22 min

Lab File: BF095154.D

Acq: 16 May 2017 12:21

Instrument :

BNA_F

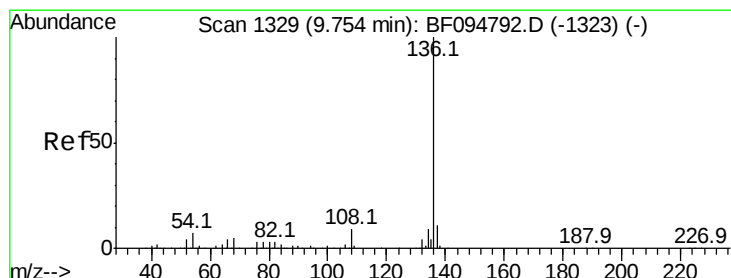
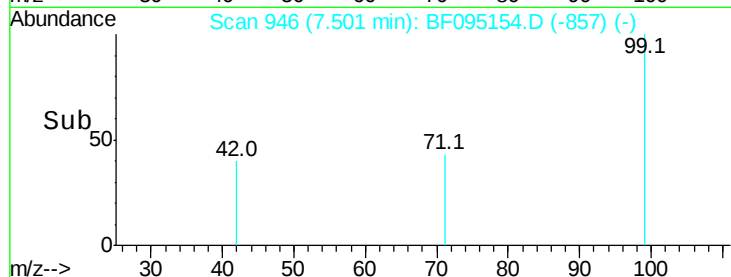
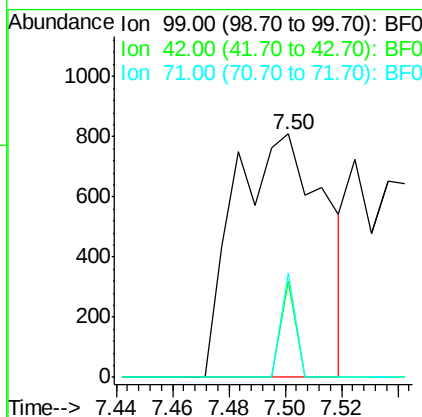
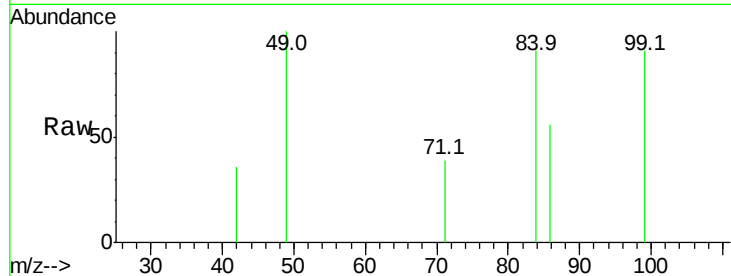
ClientSampled :

TB-12-6

Tot Ion:	99	Resp:	1804
Ion Ratio	Lower	Upper	
99	100		
42	39.7	13.5	20.3#
71	43.0	24.5	36.7#

Manual Integrations
APPROVED

mohammad
5/17/2017 2:21:12 PM



#21

Naphthalene-d8

Concen: 20.00 ng

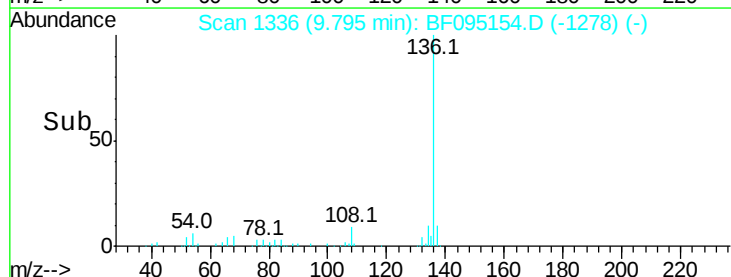
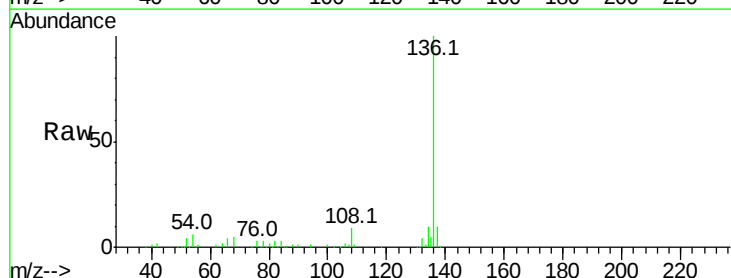
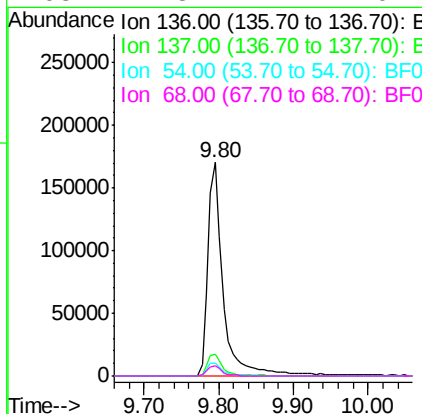
RT: 9.80 min Scan# 1336

Delta R.T. 0.04 min

Lab File: BF095154.D

Acq: 16 May 2017 12:21

Tgt Ion:	136	Resp:	244245
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.5	12.7
54	5.9	4.9	7.3
68	4.8	4.1	6.1





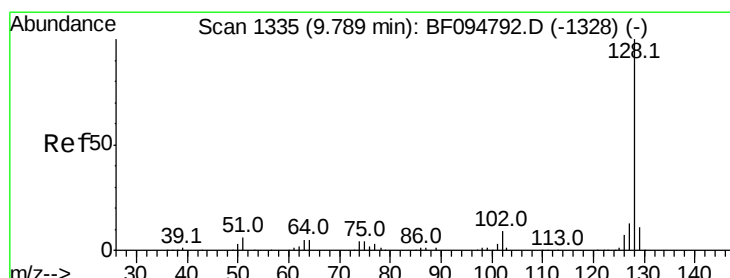
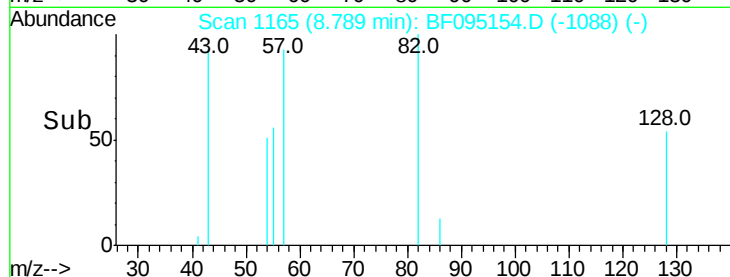
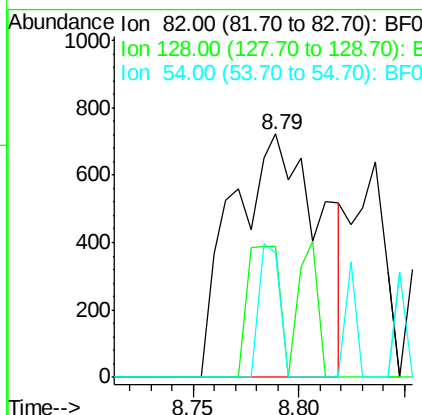
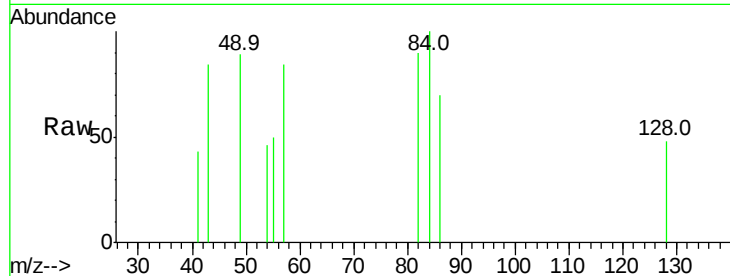
#23
Nitrobenzene-d5
Concen: 0.54 ng
RT: 8.79 min Scan# 1165
Delta R.T. 0.15 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampled :
TB-12-6

Tot Ion	Ratio	Lower	Upper
82	100		
128	53.8	34.0	51.0#
54	51.3	42.2	63.2

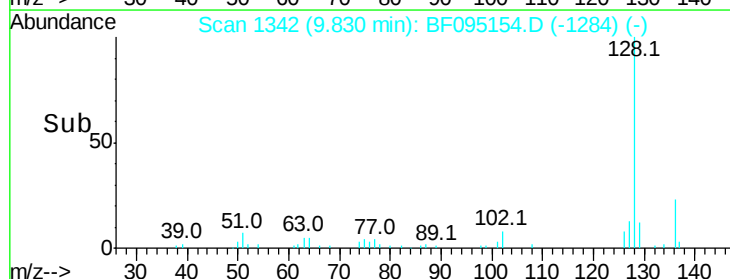
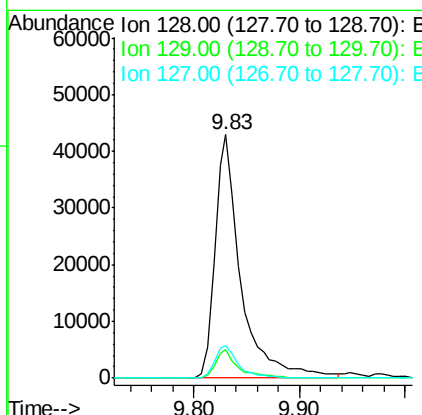
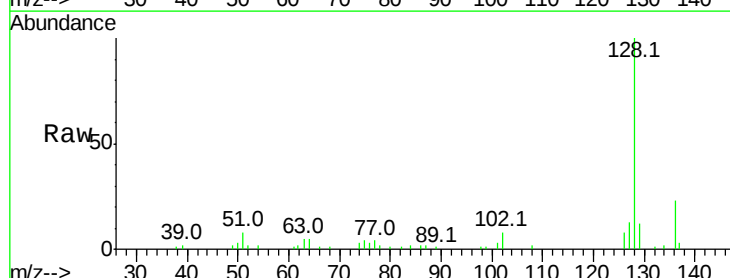
Manual Integrations
APPROVED

mohammad
5/17/2017 2:21:12 PM



#31
Naphthalene
Concen: 5.98 ng
RT: 9.83 min Scan# 1342
Delta R.T. 0.04 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.0	13.6
127	13.1	10.8	16.2





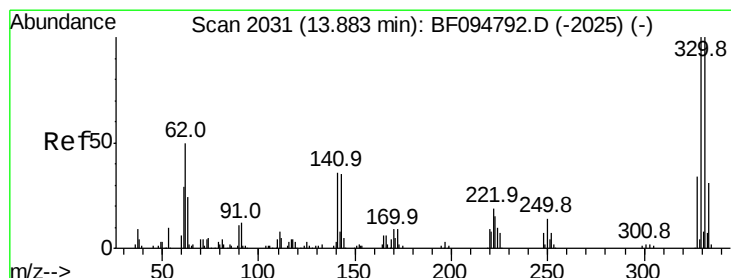
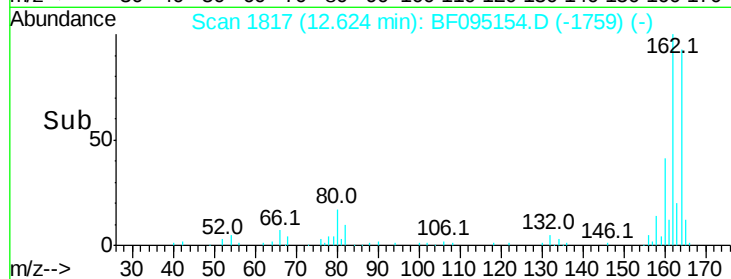
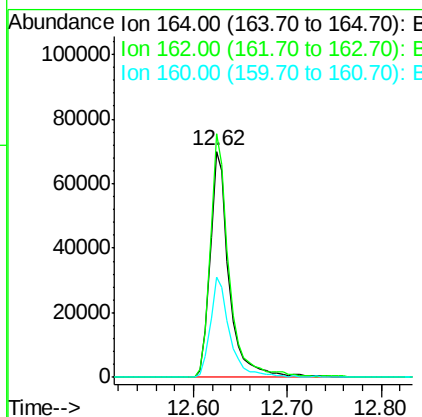
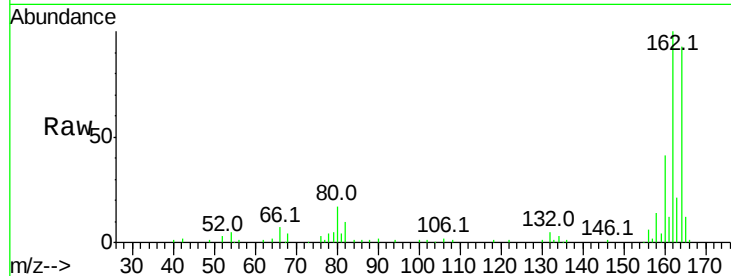
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.62 min Scan# 1817
 Delta R.T. 0.04 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Instrument :
 BNA_F
 ClientSampled :
 TB-12-6

Tot Ion	Ratio	Resp	Lower	Upper
164	100	100043		
162	107.7		82.6	123.8
160	44.3		36.2	54.2

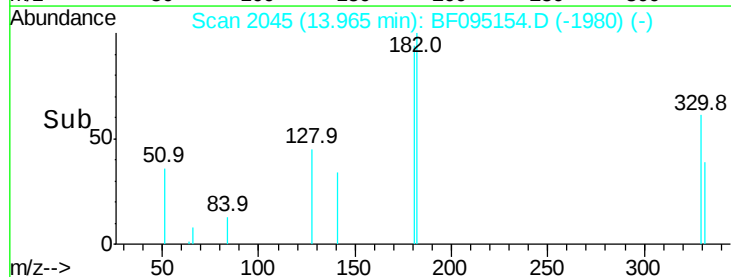
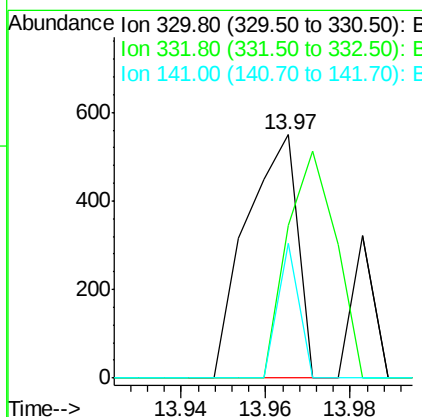
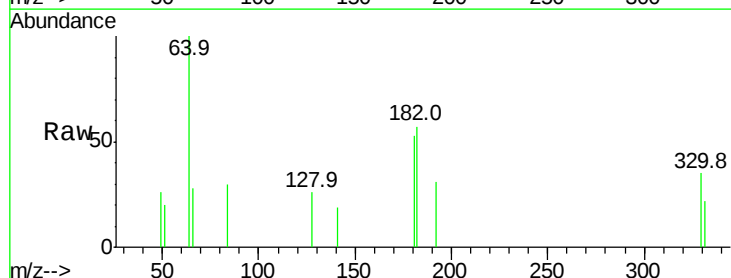
Manual Integrations
 APPROVED

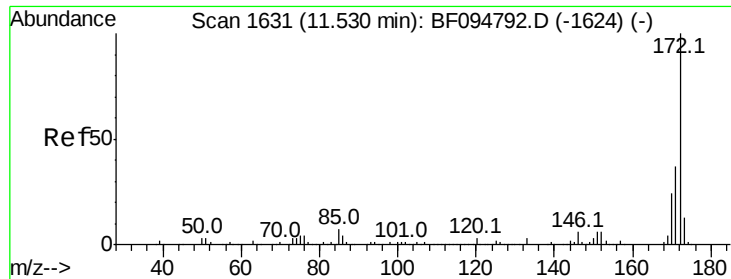
mohammad
 5/17/2017 2:21:12 PM



#41
 2,4,6-Tribromophenol
 Concen: 0.57 ng
 RT: 13.97 min Scan# 2045
 Delta R.T. 0.08 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	464		
332	87.9		76.6	115.0
141	23.3		31.4	47.2





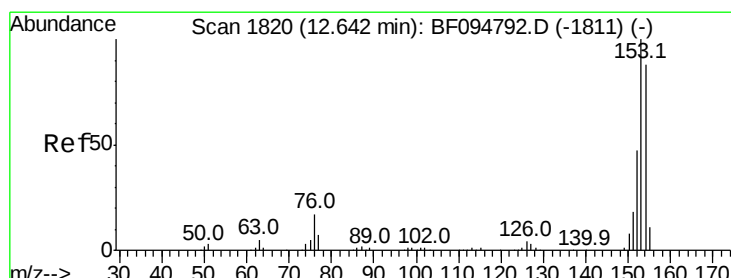
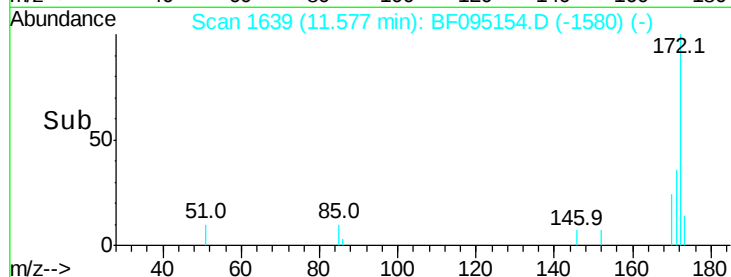
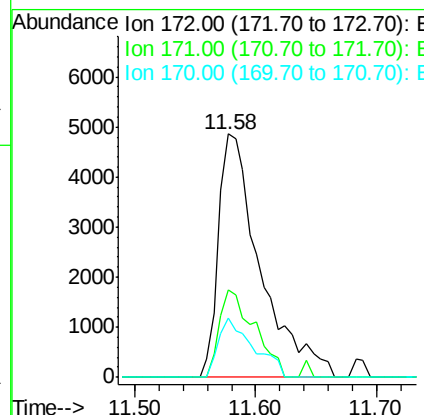
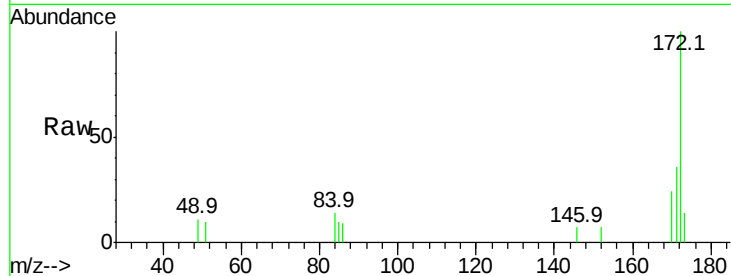
#44
2-Fluorobiphenyl
Concen: 1.68 ng
RT: 11.58 min Scan# 1639
Delta R.T. 0.05 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampleId :
TB-12-6

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.7		29.6	44.4
170	24.2		19.8	29.8

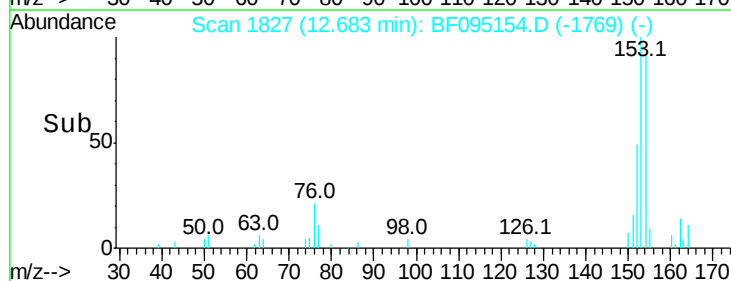
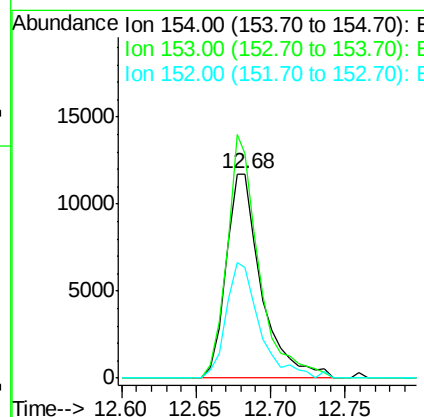
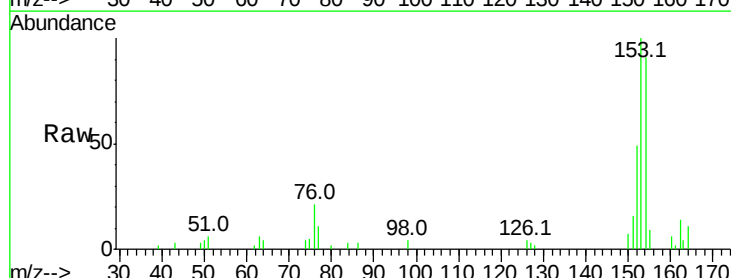
Manual Integrations
APPROVED

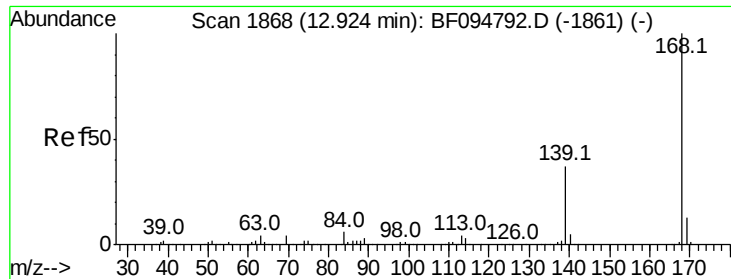
mohammad
5/17/2017 2:21:12 PM



#51
Acenaphthene
Concen: 3.05 ng
RT: 12.68 min Scan# 1827
Delta R.T. 0.04 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	109.7		90.5	135.7
152	54.0		43.6	65.4





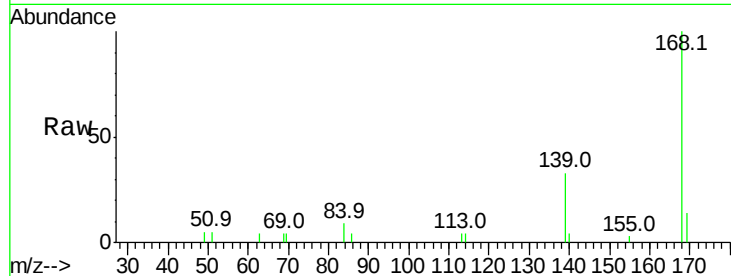
#54
Dibenzenofuran
Concen: 2.55 ng
RT: 12.98 min Scan# 1878
Delta R.T. 0.06 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampleId :
TB-12-6

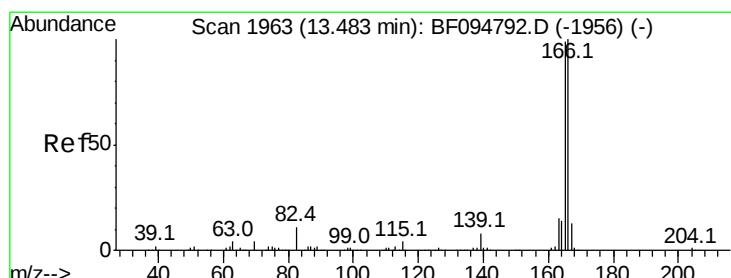
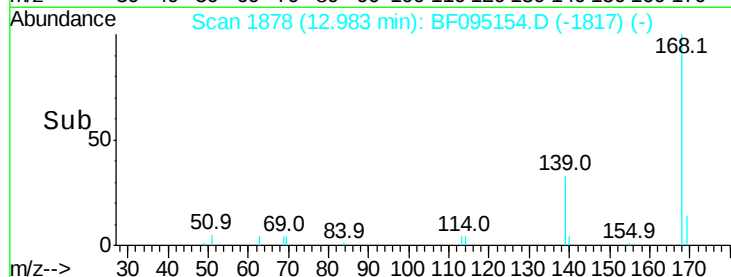
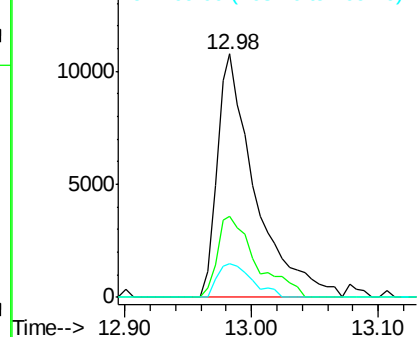
Tot Ion	Ratio	Lower	Upper
168	100		
139	33.4	30.6	45.8
169	13.6	10.8	16.2

Manual Integrations
APPROVED

mohammad
5/17/2017 2:21:12 PM



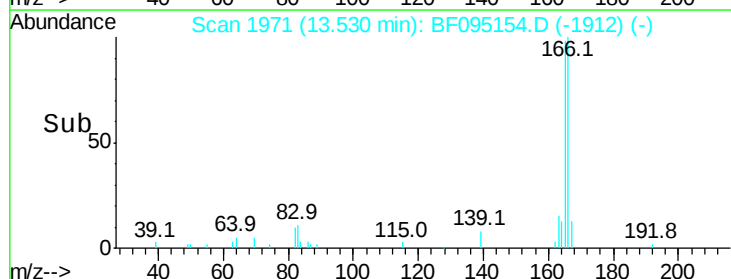
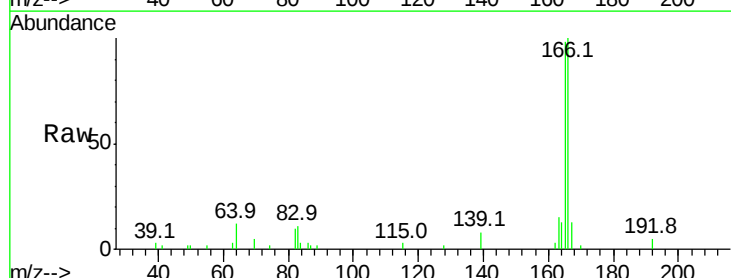
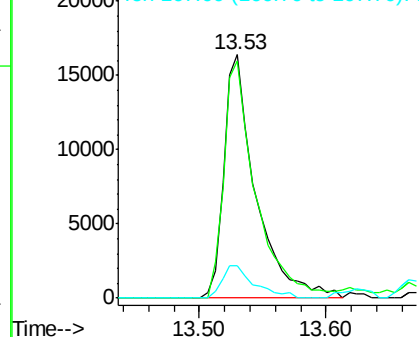
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

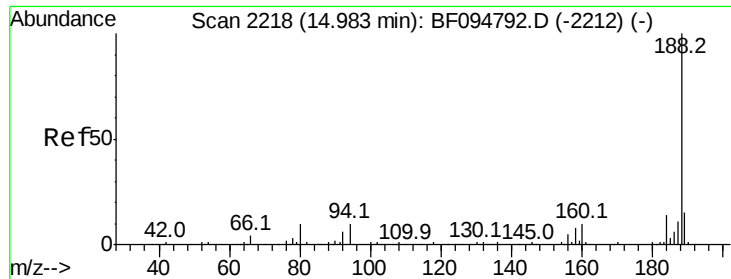


#57
Fluorene
Concen: 3.73 ng
RT: 13.53 min Scan# 1971
Delta R.T. 0.05 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.8	118.2
167	13.2	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





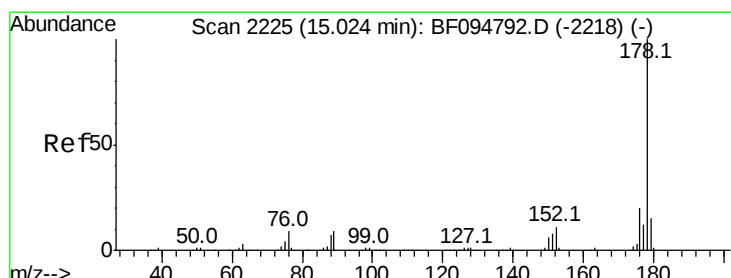
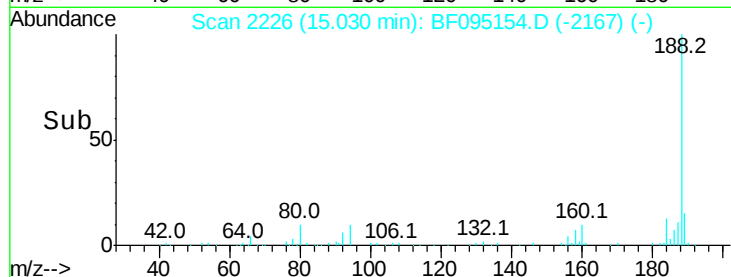
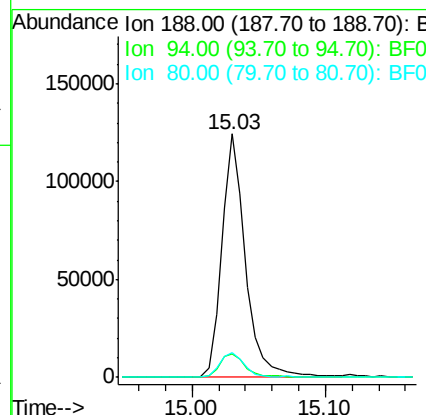
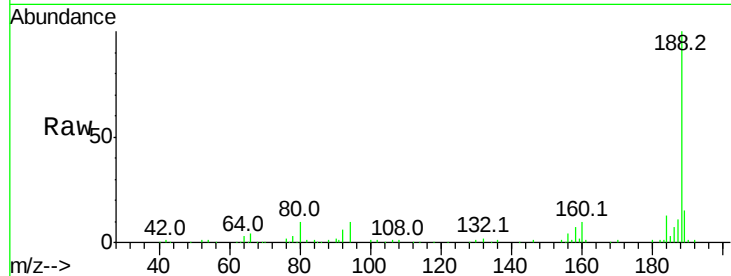
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.03 min Scan# 2226
 Delta R.T. 0.05 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Instrument :
 BNA_F
 ClientSampleId :
 TB-12-6

Tot Ion	Ratio	Resp	Lower	Upper
188	100	155622		
94	9.8		9.4	14.2
80	10.4		10.2	15.2

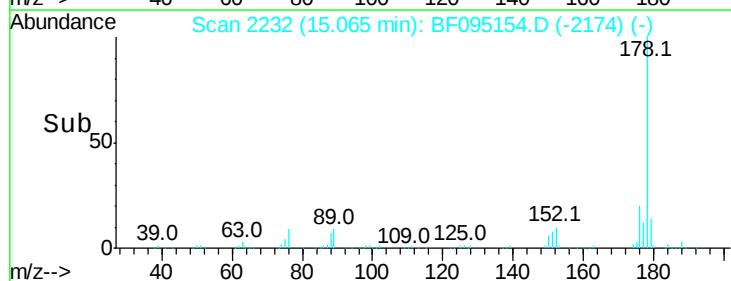
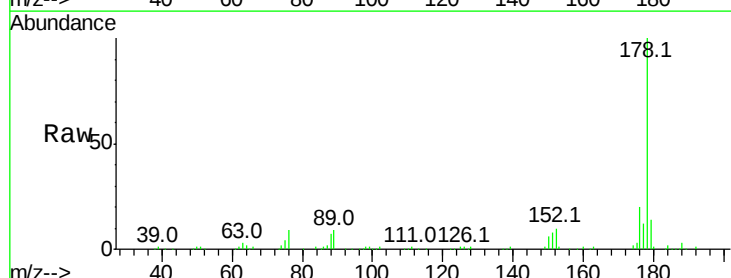
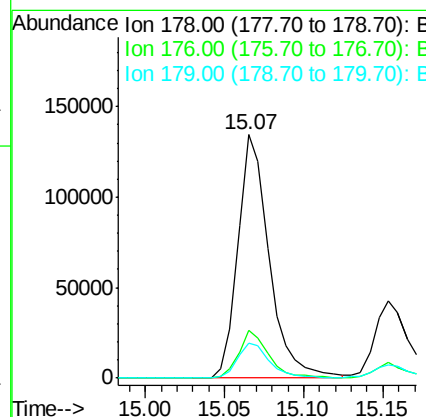
Manual Integrations
 APPROVED

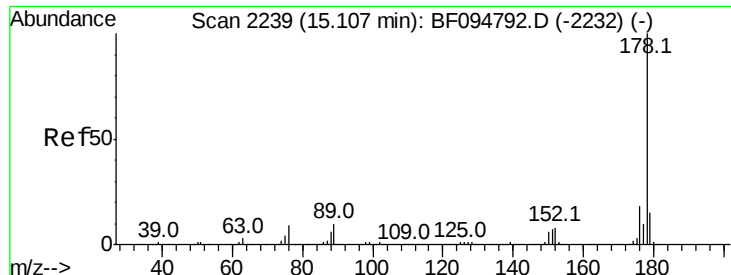
mohammad
 5/17/2017 2:21:12 PM



#70
 Phenanthrene
 Concen: 20.67 ng
 RT: 15.07 min Scan# 2232
 Delta R.T. 0.04 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	184828		
176	19.8		16.2	24.4
179	14.3		12.6	19.0





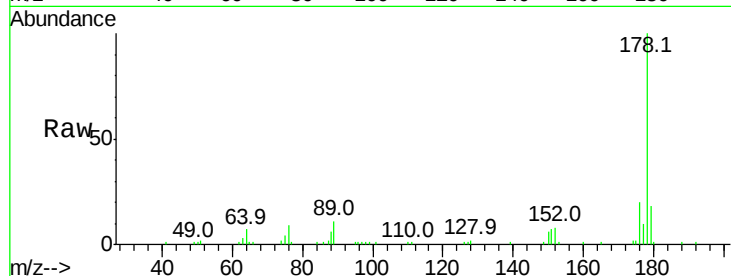
#71
 Anthracene
 Concen: 7.17 ng
 RT: 15.15 min Scan# 2247
 Delta R.T. 0.05 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Instrument :
 BNA_F
 ClientSampleId :
 TB-12-6

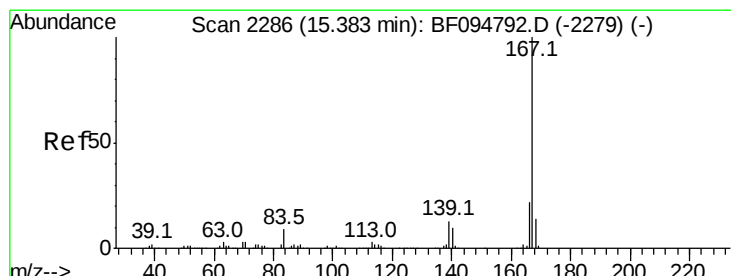
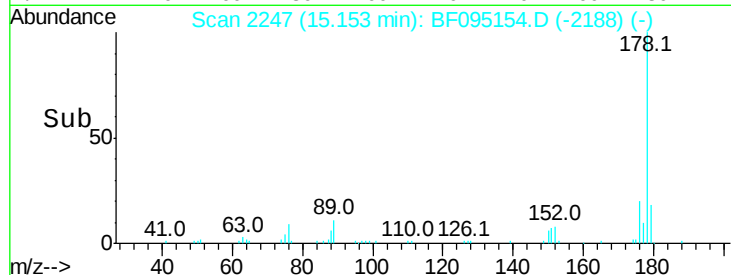
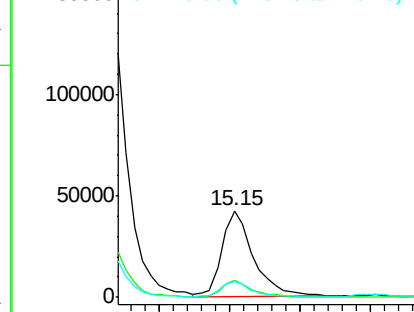
Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.8	23.8
179	17.7	12.7	19.1

Manual Integrations
 APPROVED

mohammad
 5/17/2017 2:21:12 PM

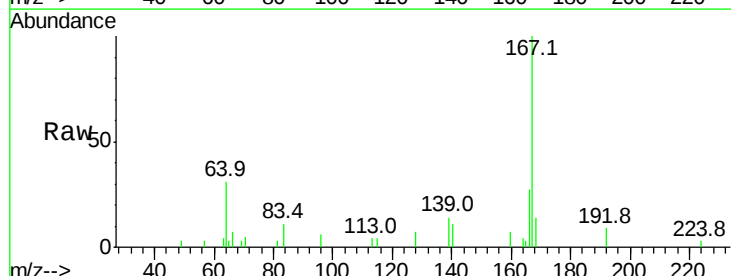


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

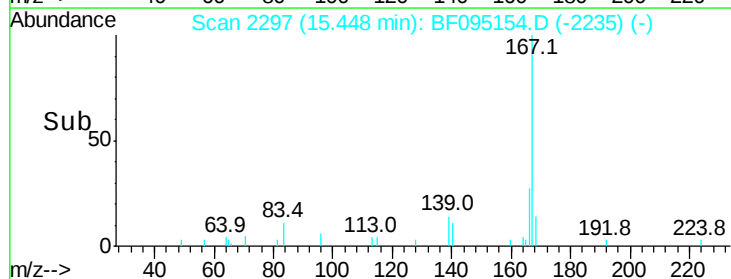
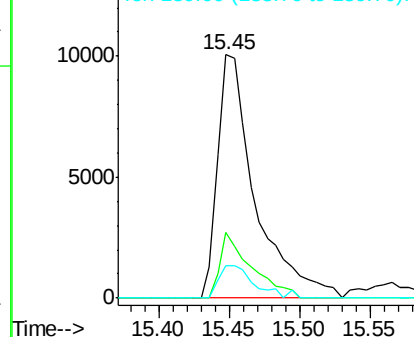


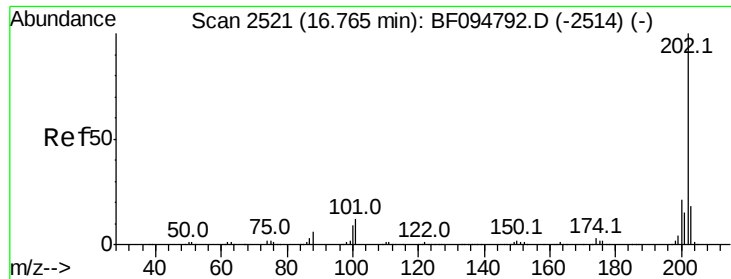
#72
 Carbazole
 Concen: 2.25 ng
 RT: 15.45 min Scan# 2297
 Delta R.T. 0.06 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Lower	Upper
167	100		
166	27.0	18.1	27.1
139	13.5	11.7	17.5



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





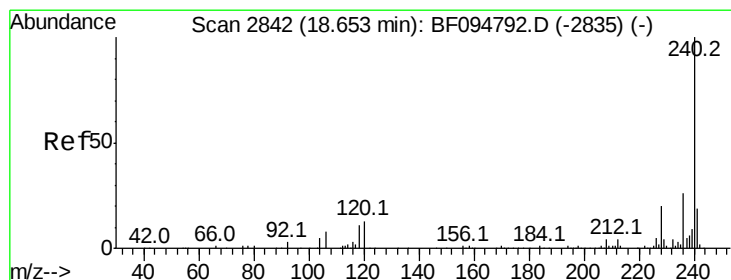
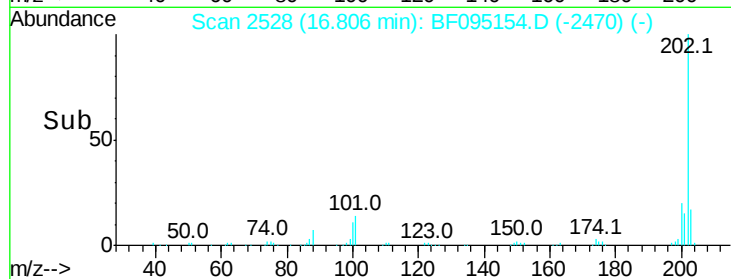
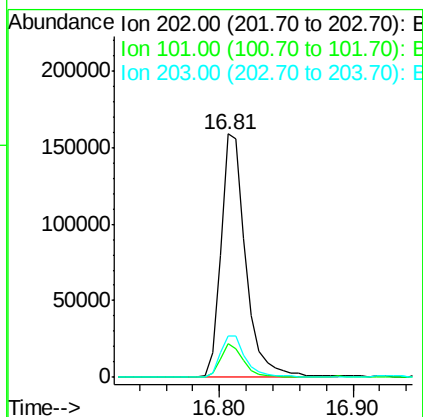
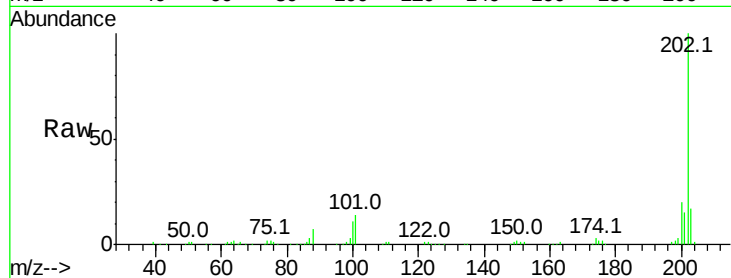
#74
 Fluoranthene
 Concen: 22.77 ng
 RT: 16.81 min Scan# 2528
 Delta R.T. 0.04 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Instrument :
 BNA_F
 ClientSampleId :
 TB-12-6

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.8	0.0	33.2
203	16.8	0.0	38.1

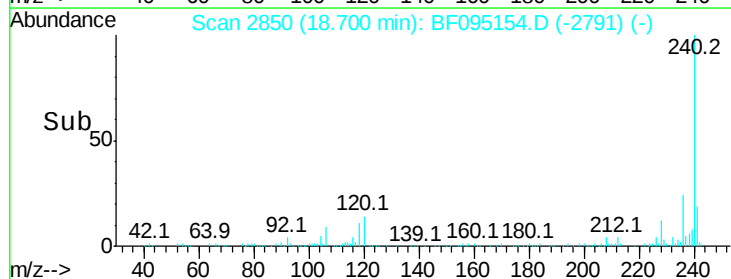
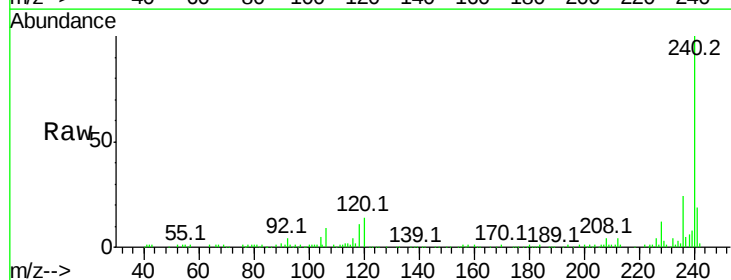
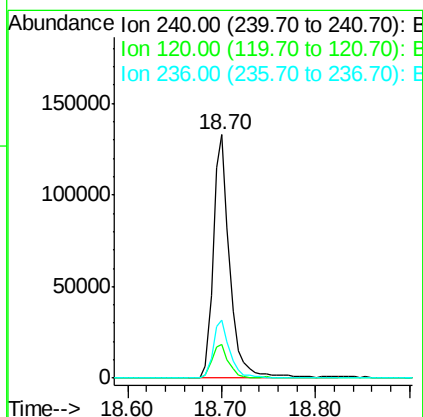
Manual Integrations
 APPROVED

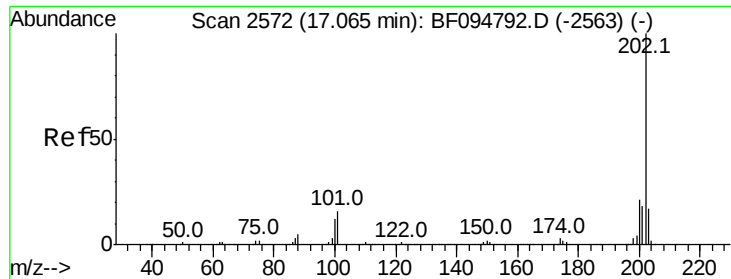
mohammad
 5/17/2017 2:21:12 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.70 min Scan# 2850
 Delta R.T. 0.05 min
 Lab File: BF095154.D
 Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.6	5.8	8.8#
236	23.9	20.5	30.7





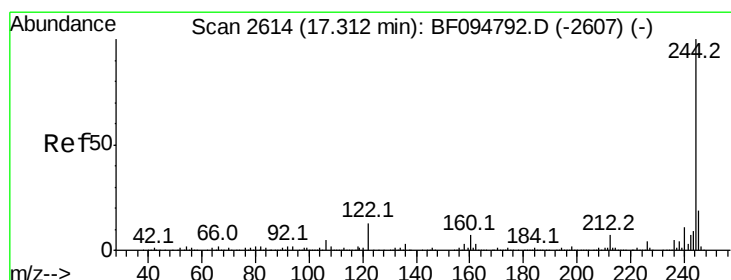
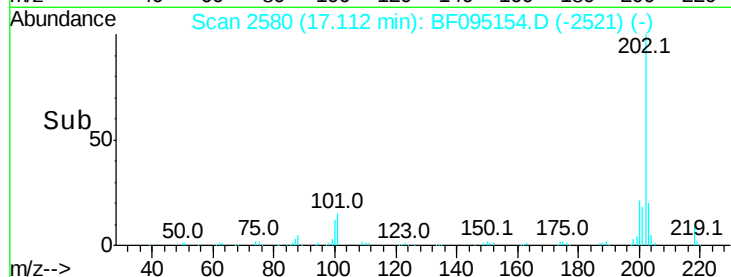
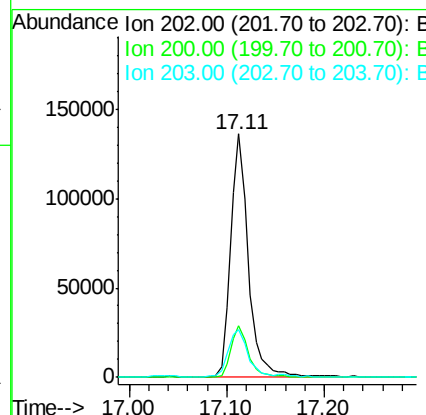
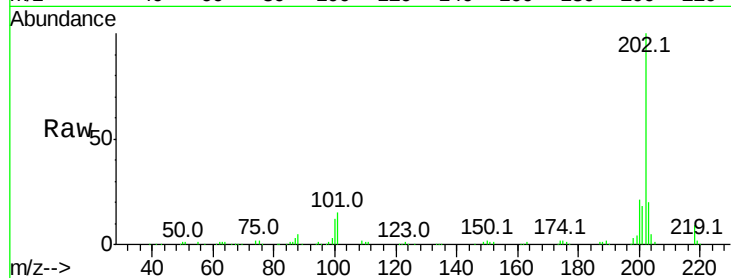
#77
Pvrene
Concen: 13.91 ng
RT: 17.11 min Scan# 2580
Delta R.T. 0.05 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampleId :
TB-12-6

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.6	26.4
203	19.6	14.4	21.6

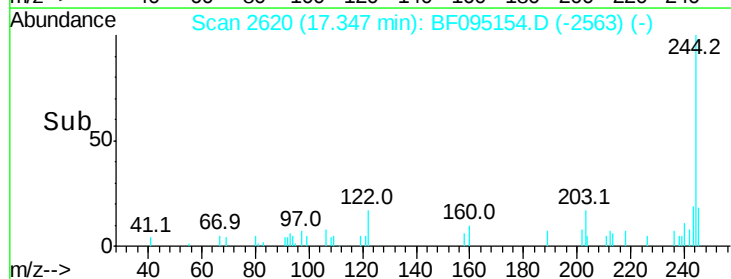
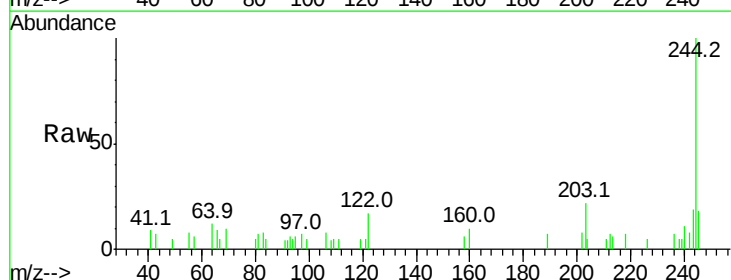
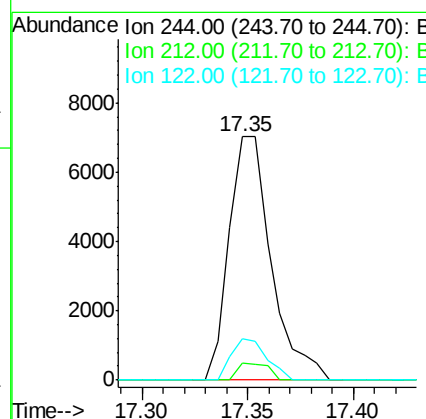
Manual Integrations
APPROVED

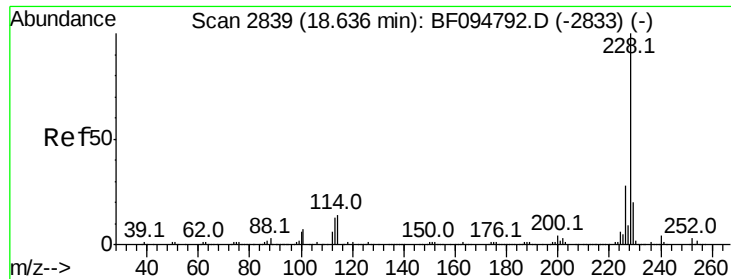
mohammad
5/17/2017 2:21:12 PM



#78
Terphenyl-d14
Concen: 1.29 ng
RT: 17.35 min Scan# 2620
Delta R.T. 0.04 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	16.9	10.3	15.5





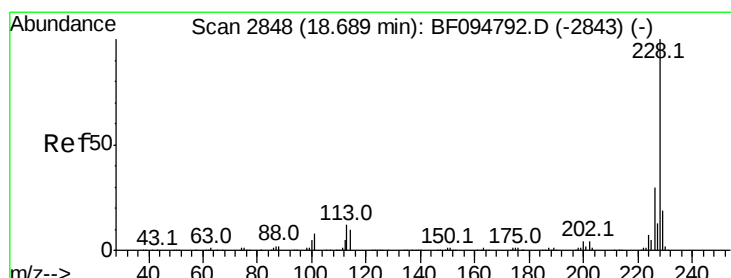
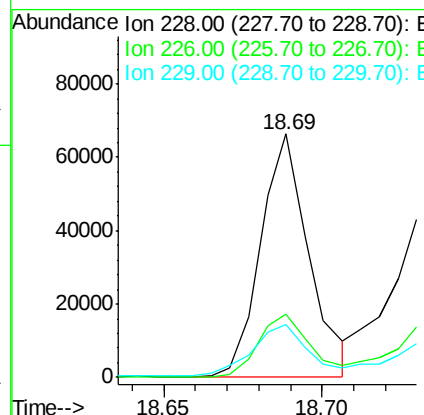
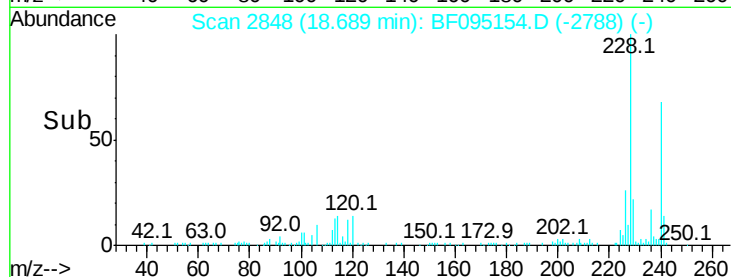
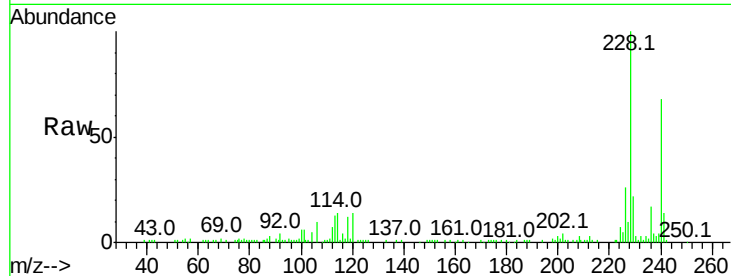
#80
Benzo(a)anthracene
Concen: 7.29 ng
RT: 18.69 min Scan# 2848
Delta R.T. 0.05 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampleId :
TB-12-6

Tot Ion	Ratio	Lower	Upper
228	100		
226	25.9	22.6	33.8
229	22.0	16.3	24.5

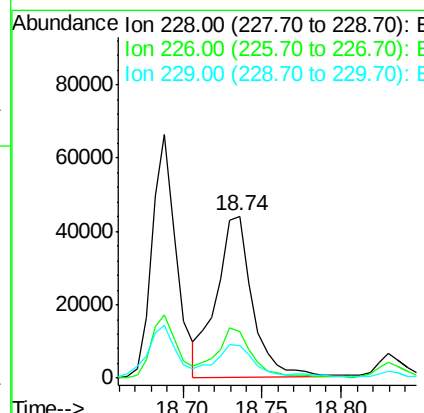
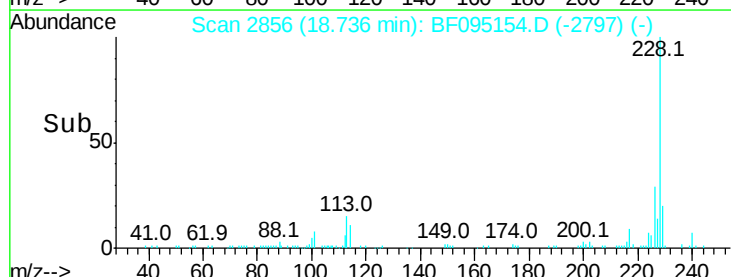
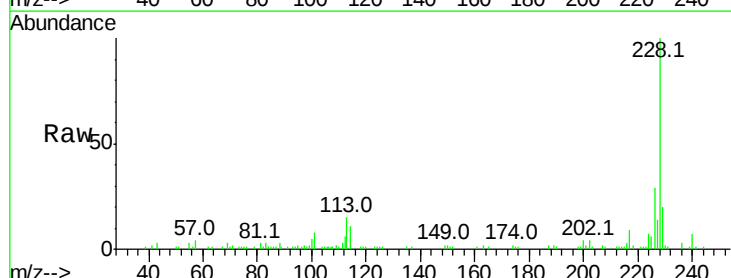
Manual Integrations
APPROVED

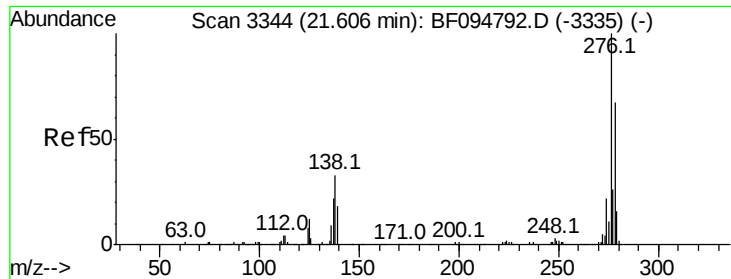
mohammad
5/17/2017 2:21:12 PM



#82
Chrysene
Concen: 7.52 ng
RT: 18.74 min Scan# 2856
Delta R.T. 0.05 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	24.9	37.3
229	19.9	15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.68 ng

RT: 21.73 min Scan# 3365

Delta R.T. 0.12 min

Lab File: BF095154.D

Acq: 16 May 2017 12:21

Instrument :

BNA_F

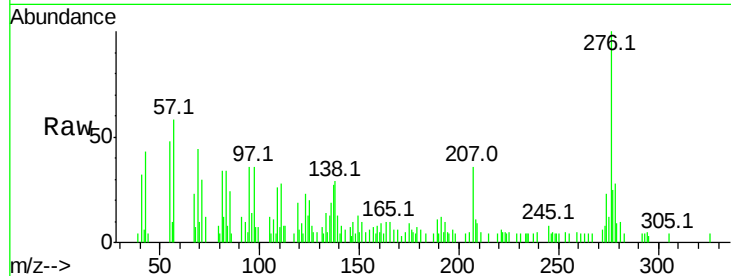
ClientSampleId :

TB-12-6

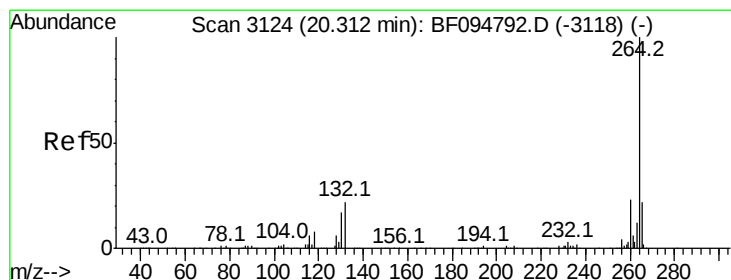
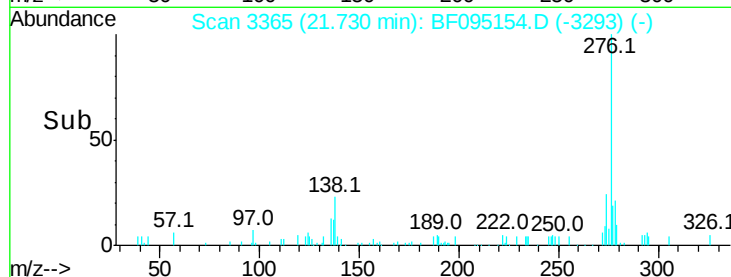
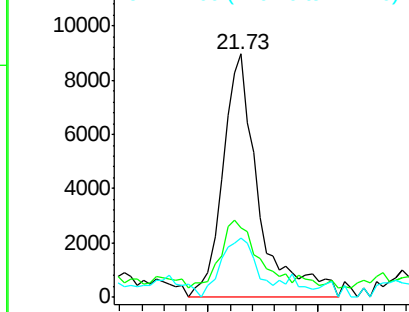
Tot Ion:	276	Resp:	20275
Ion Ratio	Lower	Upper	
276	100		
138	28.7	27.8	41.6
277	24.0	20.2	30.4

Manual Integrations
APPROVED

mohammad
5/17/2017 2:21:12 PM



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



#86

Perylene-d12

Concen: 20.00 ng

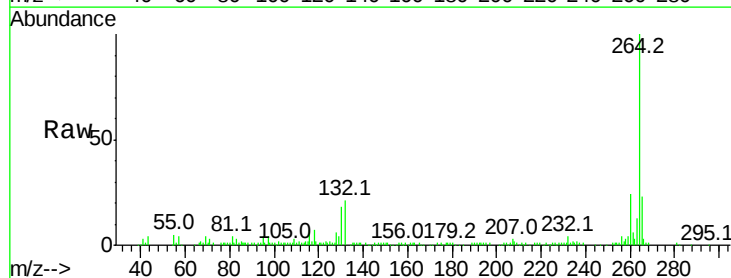
RT: 20.38 min Scan# 3135

Delta R.T. 0.06 min

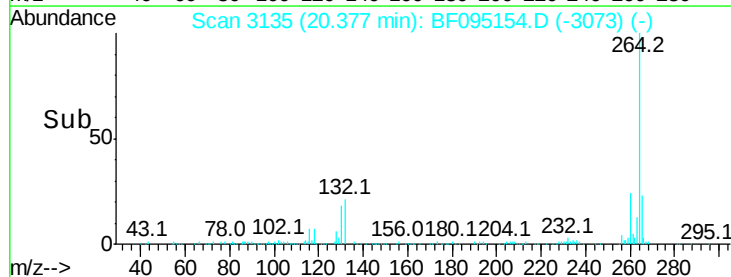
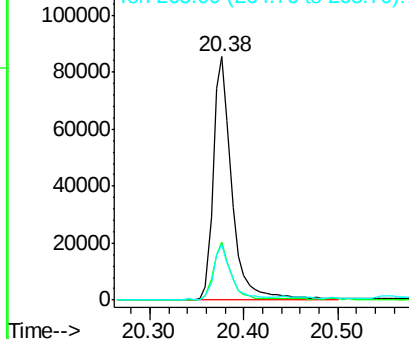
Lab File: BF095154.D

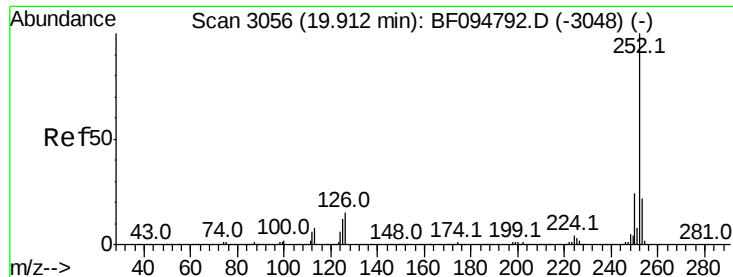
Acq: 16 May 2017 12:21

Tgt Ion:	264	Resp:	120832
Ion Ratio	Lower	Upper	
264	100		
260	23.7	19.5	29.3
265	22.7	17.2	25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





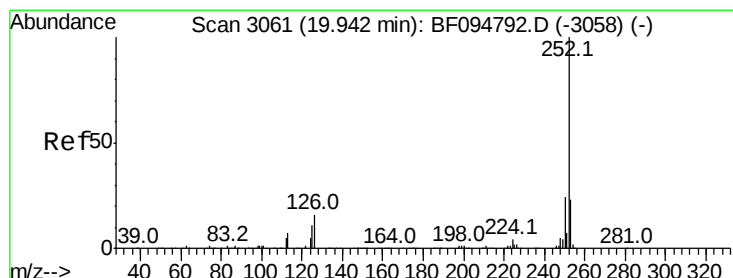
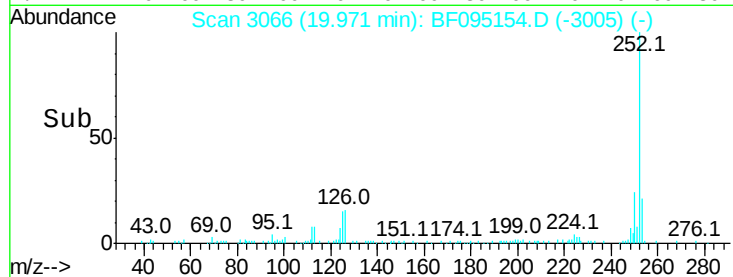
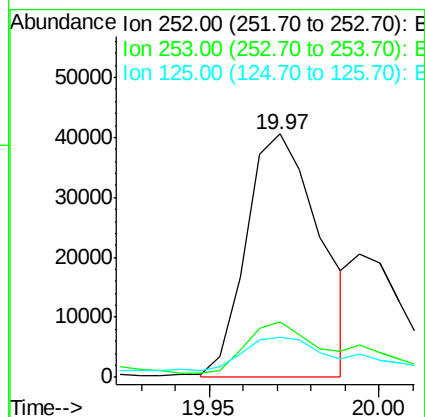
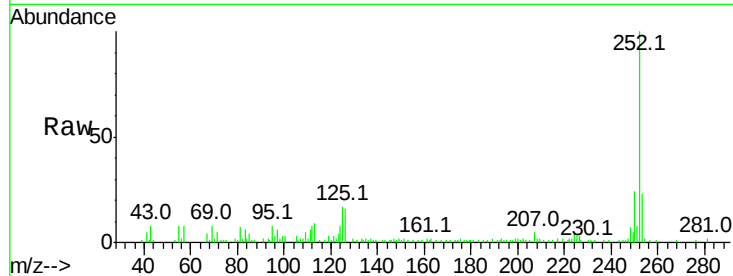
#87
Benzo(b)fluoranthene
Concen: 8.21 ng m
RT: 19.97 min Scan# 3066
Delta R.T. 0.06 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampled :
TB-12-6

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	16.5	9.8	14.8

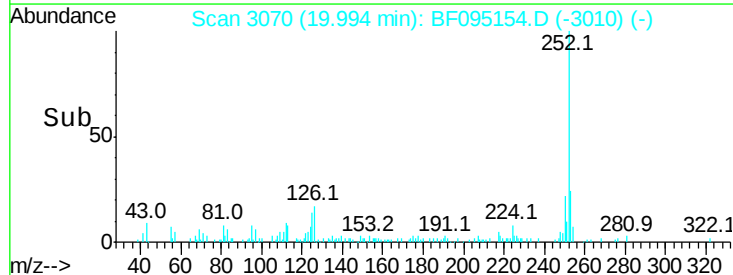
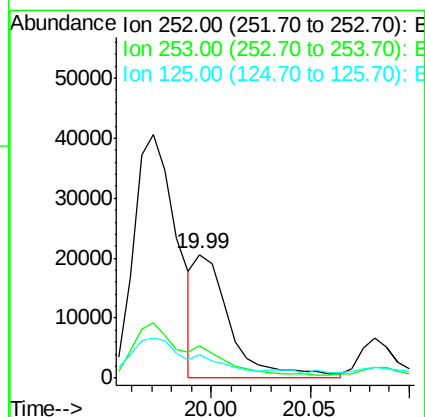
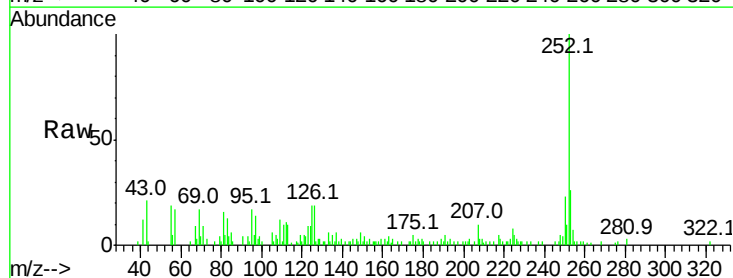
Manual Integrations
APPROVED

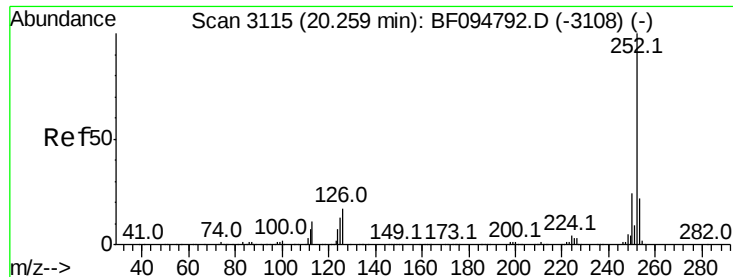
mohammad
5/17/2017 2:21:12 PM



#88
Benzo(k)fluoranthene
Concen: 3.55 ng m
RT: 19.99 min Scan# 3070
Delta R.T. 0.05 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	18.4	27.6
125	18.8	13.1	19.7





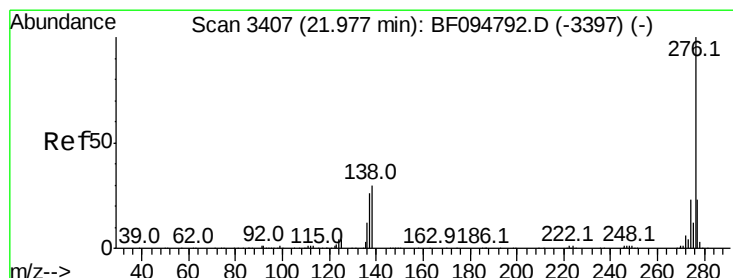
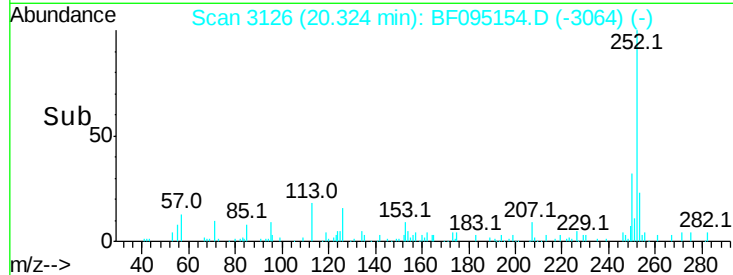
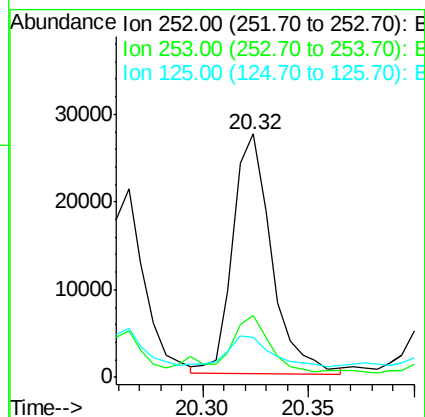
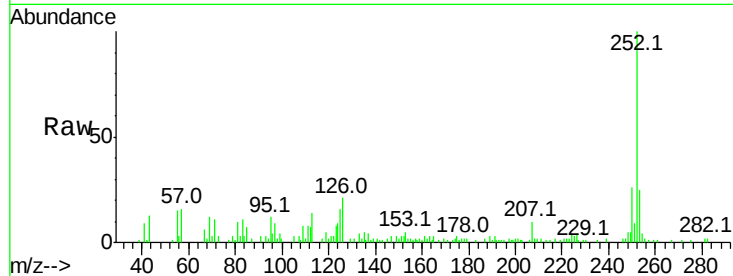
#89
Benzo(a)pyrene
Concen: 5.04 ng
RT: 20.32 min Scan# 3126
Delta R.T. 0.06 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Instrument :
BNA_F
ClientSampled :
TB-12-6

Tot Ion:	252	Resp:	34711
Ion Ratio		Lower	Upper
252	100		
253	25.5	17.5	26.3
125	16.3	11.0	16.4

Manual Integrations
APPROVED

mohammad
5/17/2017 2:21:12 PM



#91
Benzo(g,h,i)perylene
Concen: 3.56 ng
RT: 22.12 min Scan# 3431
Delta R.T. 0.14 min
Lab File: BF095154.D
Acq: 16 May 2017 12:21

Tgt Ion:	276	Resp:	19869
Ion Ratio		Lower	Upper
276	100		
277	26.4	18.6	28.0
138	38.5	25.4	38.0

