

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030415\
 Data File : BF077613.D
 Acq On : 5 Mar 2015 8:47
 Operator : TP/IZ
 Sample : G1332-05
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SA-2

Manual Integrations
 APPROVED

mohammad
 3/5/2015 2:11:42 PM

Quant Time: Mar 05 12:50:29 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 04 13:27:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.22	152	104917	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	420510	20.00	ng	0.00
38) Acenaphthene-d10	10.97	164	220421	20.00	ng	0.00
63) Phenanthrene-d10	12.82	188	425413	20.00	ng	0.00
75) Chrysene-d12	16.11	240	457423	20.00	ng	0.00
86) Perylene-d12	17.87	264	435138	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	405874	64.58	ng	0.00
7) Phenol-d6	6.79	99	496812	61.48	ng	0.00
23) Nitrobenzene-d5	7.91	82	320175	47.35	ng	0.00
41) 2,4,6-Tribromophenol	11.95	330	127819	60.22	ng	0.00
44) 2-Fluorobiphenyl	10.15	172	655971	46.40	ng	0.00
78) Terphenyl-d14	14.81	244	752966	38.48	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.82	128	46867	2.23	ng	96
37) 2-Methylnaphthalene	9.69	142	63665	4.26	ng	99
51) Acenaphthene	11.01	154	114589	9.26	ng	99
54) Dibenzofuran	11.23	168	151953	7.95	ng	97
57) Fluorene	11.65	166	111266	7.29	ng	98
70) Phenanthrene	12.85	178	924294	37.49	ng	99
71) Anthracene	12.91	178	226763	9.27	ng	98
72) Carbazole	13.11	167	127943	5.50	ng	98
74) Fluoranthene	14.32	202	915891	34.01	ng	97
77) Pyrene	14.60	202	733508	26.21	ng	98
80) Benzo(a)anthracene	16.09	228	405315	15.12	ng	99
82) Chrysene	16.13	228	355923m	14.14	ng	
85) Indeno(1,2,3-cd)pyrene	19.30	276	173326	6.04	ng	96
87) Benzo(b)fluoranthene	17.41	252	468923m	18.53	ng	
88) Benzo(k)fluoranthene	17.45	252	109103m	4.40	ng	
89) Benzo(a)pyrene	17.80	252	301984	12.53	ng	# 96
91) Benzo(g,h,i)perylene	19.73	276	157493	6.79	ng	98

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

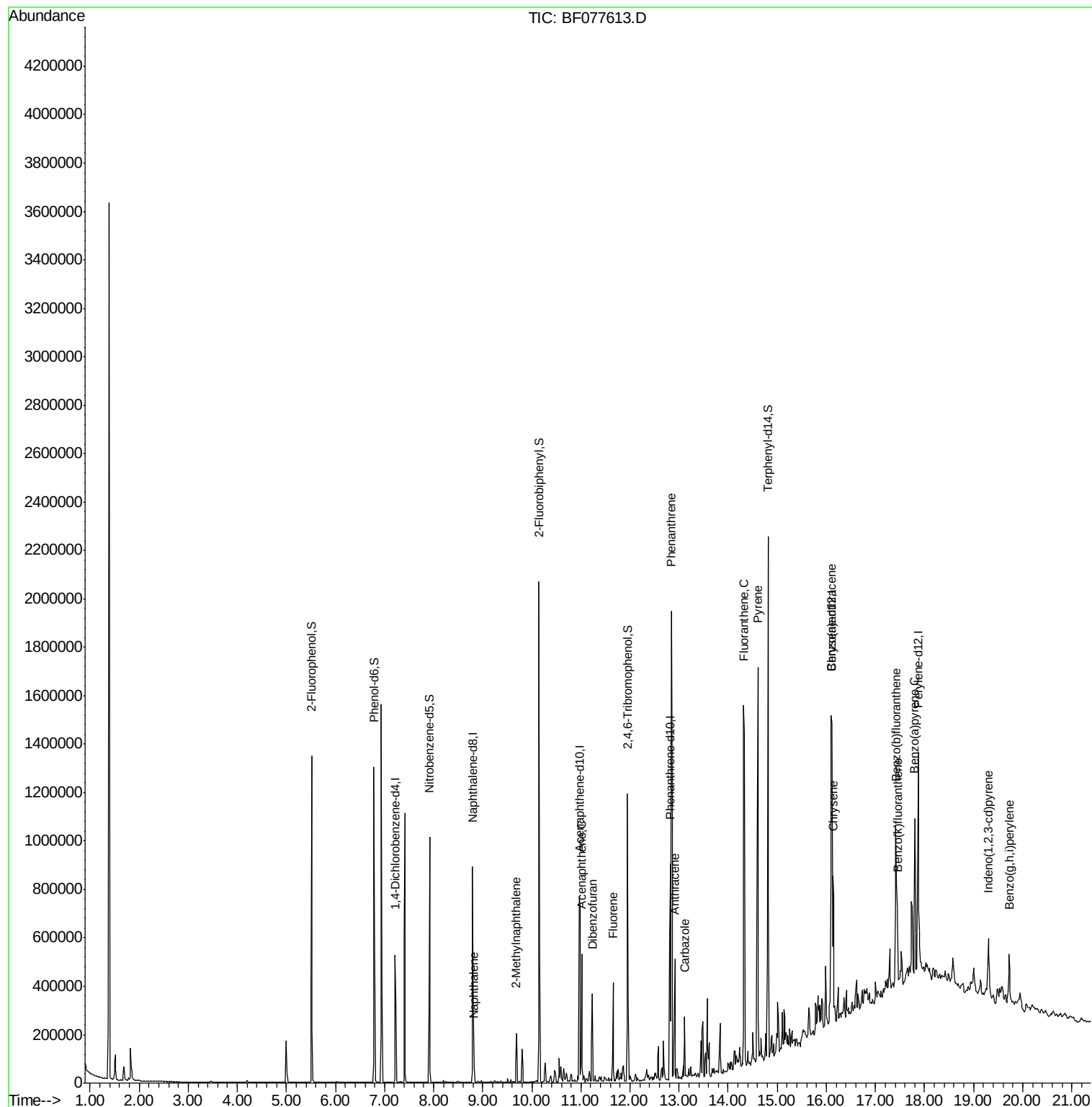
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030415\
Data File : BF077613.D
Acq On : 5 Mar 2015 8:47
Operator : TP/IZ
Sample : G1332-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

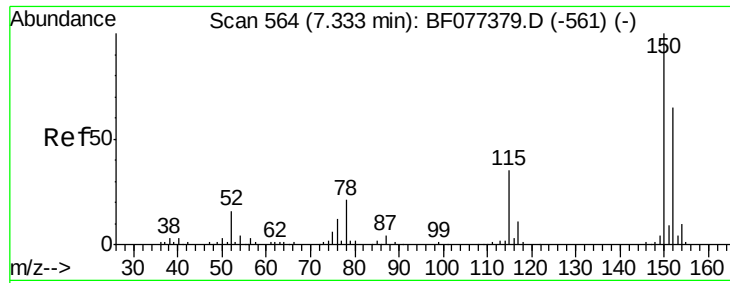
Instrument :
BNA_F
ClientSampled :
SA-2

Quant Time: Mar 05 12:50:29 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 04 13:27:09 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
3/5/2015 2:11:42 PM





#1

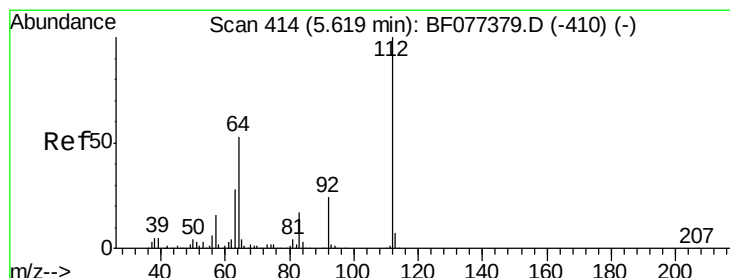
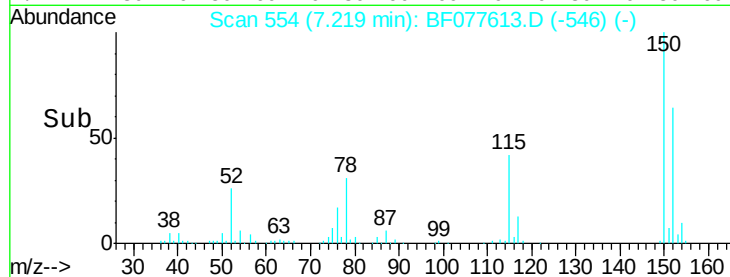
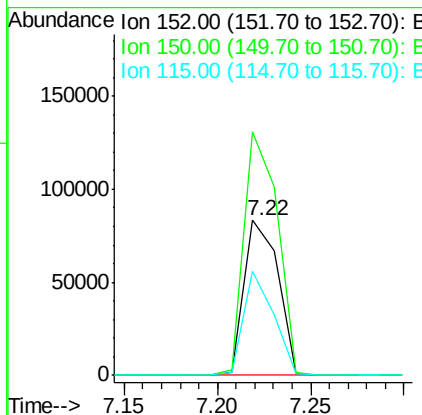
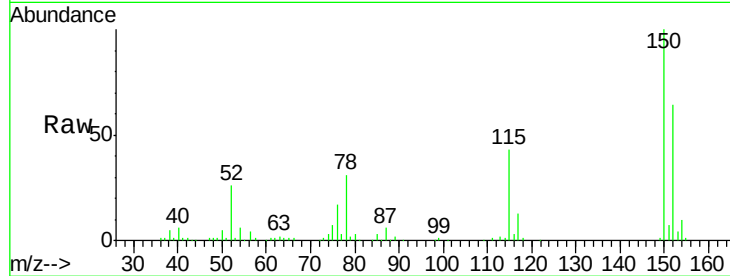
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.22 min Scan# 554
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Instrument :
BNA_F
ClientSampled :
SA-2

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	104917		
150	157.3	124.0	186.0	
115	67.2	49.4	74.2	

Manual Integrations
APPROVED

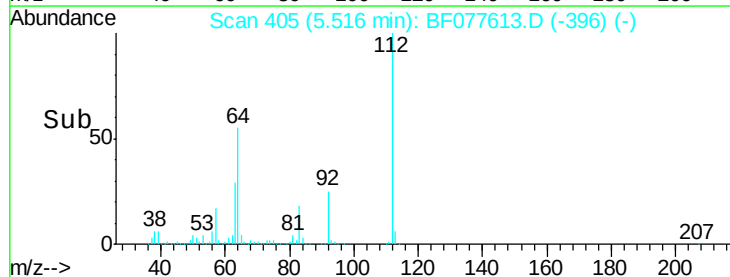
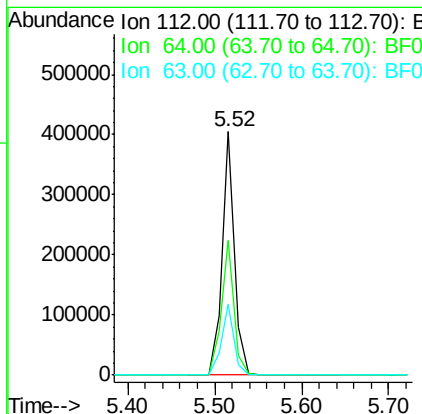
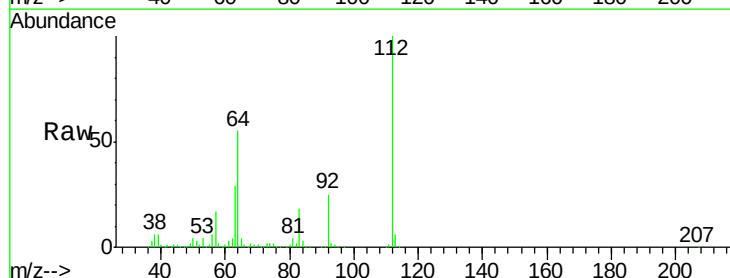
mohammad
3/5/2015 2:11:42 PM

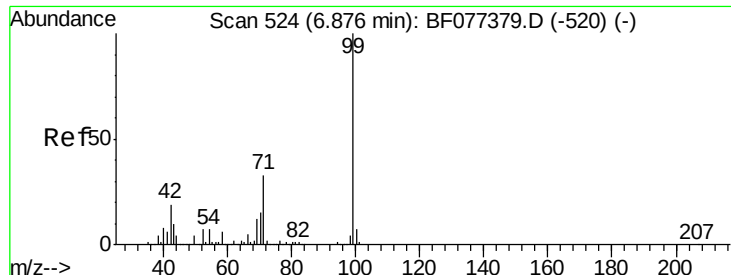


#5

2-Fluorophenol
Concen: 64.58 ng
RT: 5.52 min Scan# 405
Delta R.T. 0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	405874		
64	55.4	48.5	72.7	
63	29.1	25.0	37.4	





#7

Phenol-d6

Concen: 61.48 ng

RT: 6.79 min Scan# 516

Delta R.T. 0.00 min

Lab File: BF077613.D

Acq: 5 Mar 2015 8:47

Instrument :

BNA_F

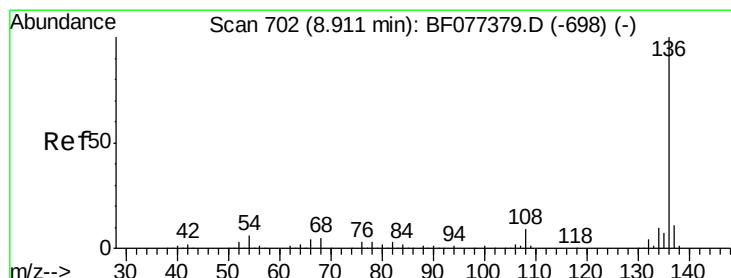
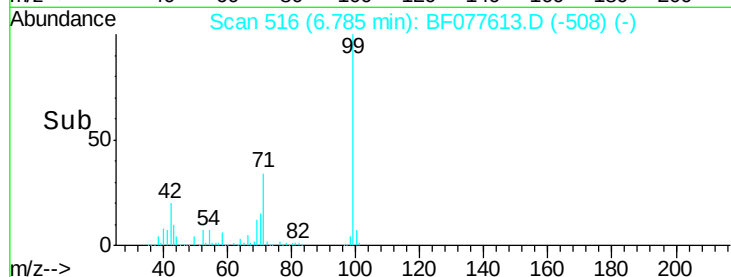
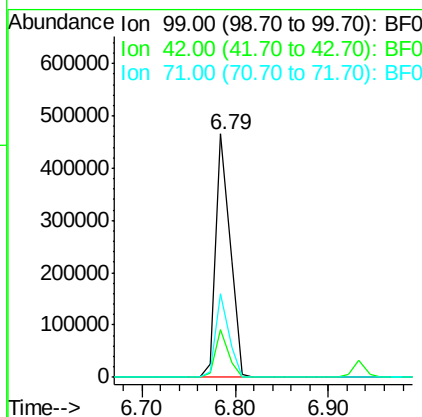
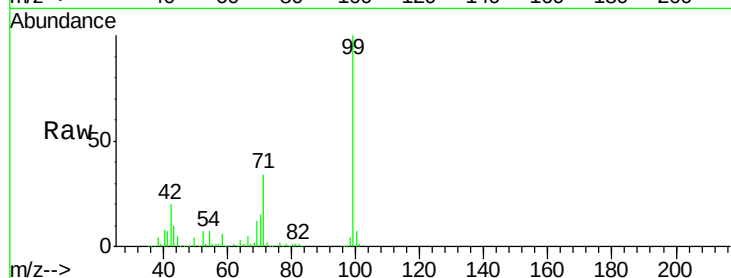
ClientSampleId :

SA-2

Tgt Ion:	99	Resp:	496812
Ion Ratio	Lower	Upper	
99	100		
42	19.7	16.2	24.4
71	34.4	26.7	40.1

Manual Integrations
APPROVED

mohammad
3/5/2015 2:11:42 PM



#21

Naphthalene-d8

Concen: 20.00 ng

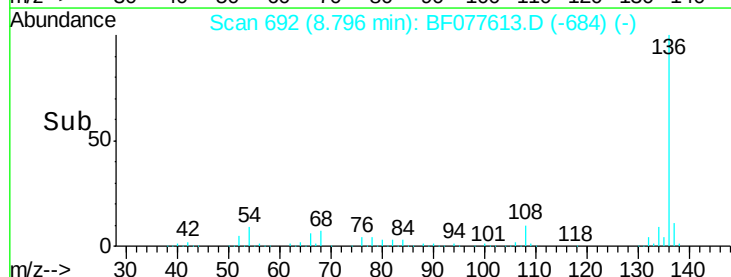
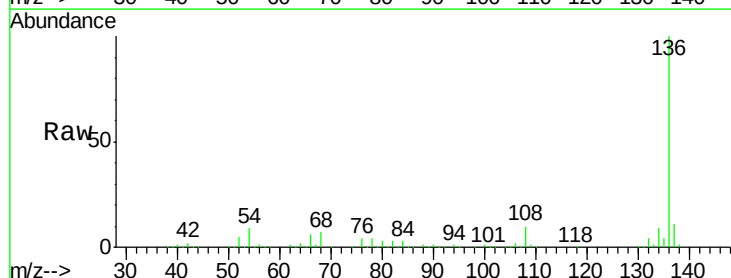
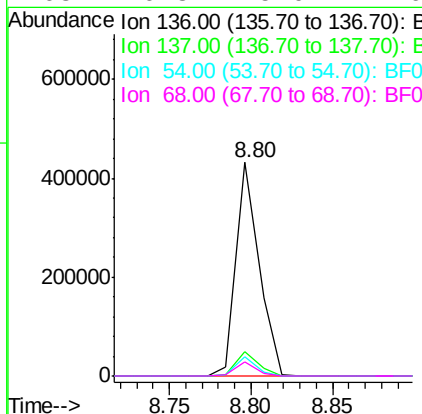
RT: 8.80 min Scan# 692

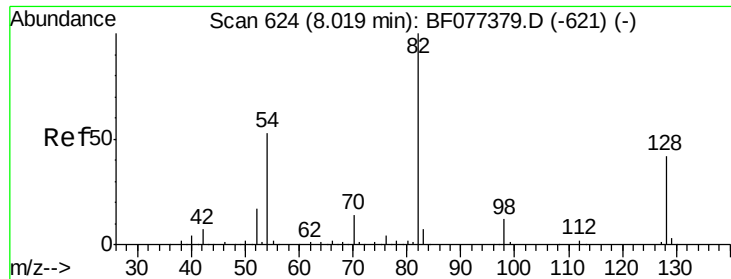
Delta R.T. -0.00 min

Lab File: BF077613.D

Acq: 5 Mar 2015 8:47

Tgt Ion:	136	Resp:	420510
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.6	13.0
54	8.8	6.2	9.4
68	6.8	5.0	7.6





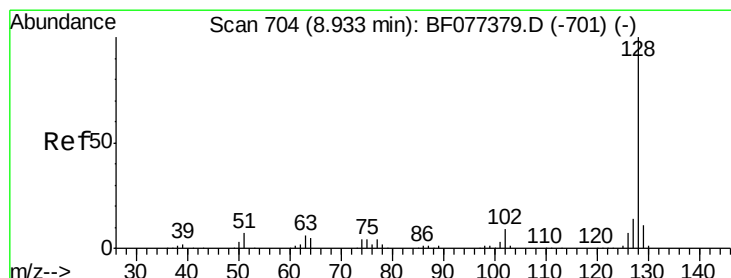
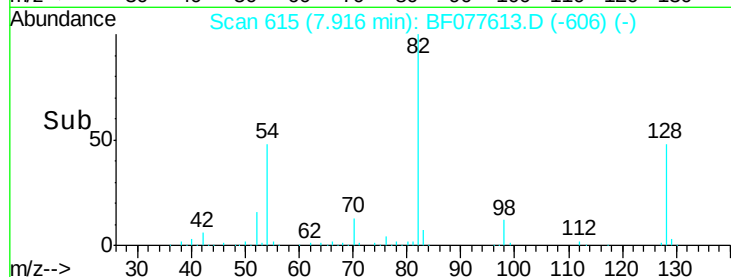
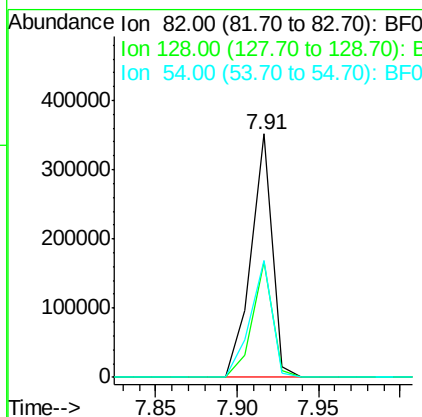
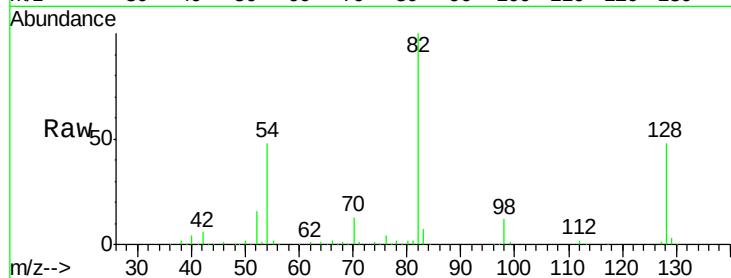
#23
 Nitrobenzene-d5
 Concen: 47.35 ng
 RT: 7.91 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Instrument :
 BNA_F
 ClientSampled :
 SA-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	47.5	43.8	65.8
54	48.1	36.7	55.1

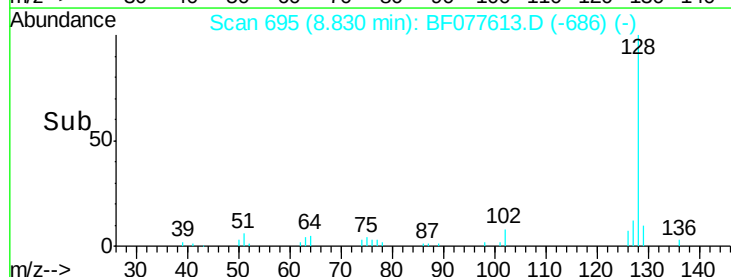
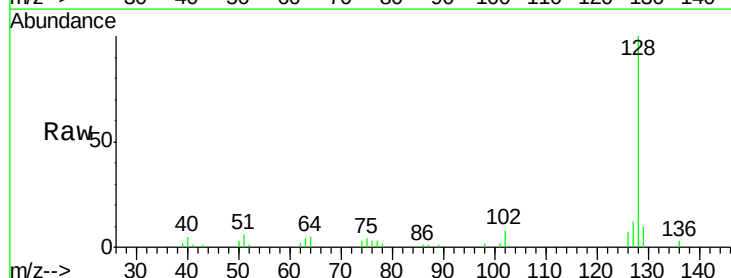
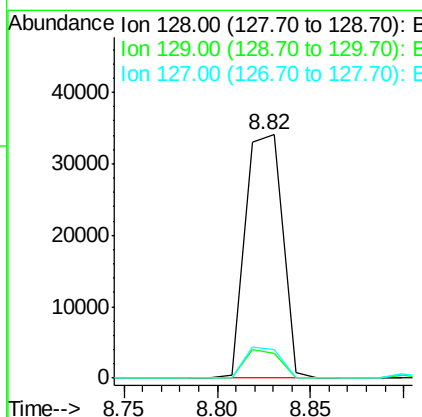
Manual Integrations
 APPROVED

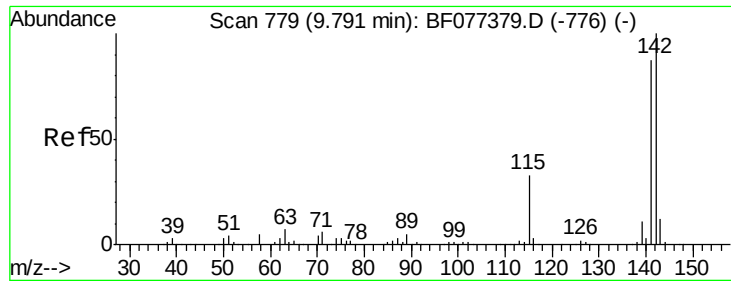
mohammad
 3/5/2015 2:11:42 PM



#31
 Naphthalene
 Concen: 2.23 ng
 RT: 8.82 min Scan# 695
 Delta R.T. -0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.4	9.4	14.0
127	11.8	10.6	15.8





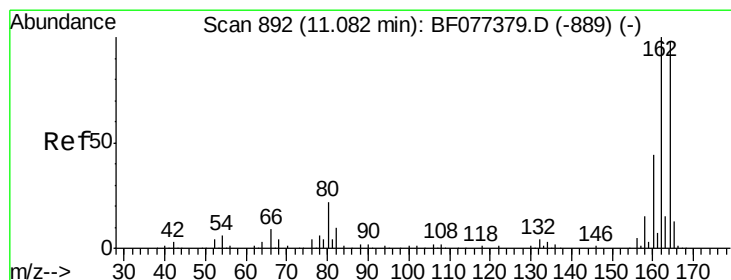
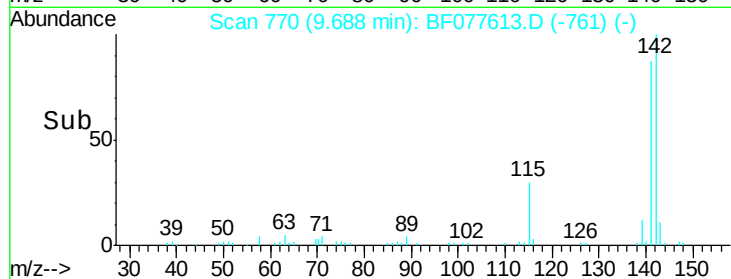
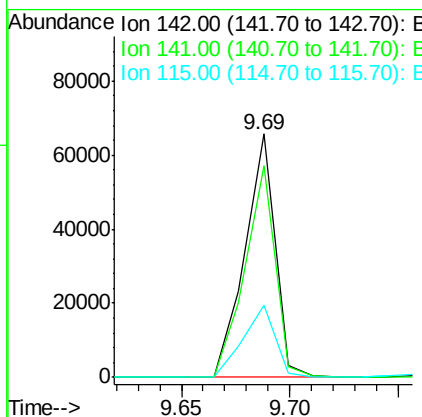
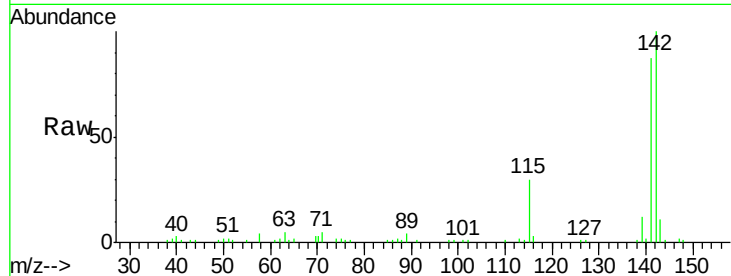
#37
2-Methylnaphthalene
Concen: 4.26 ng
RT: 9.69 min Scan# 770
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Instrument :
BNA_F
ClientSampleId :
SA-2

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.2	70.7	106.1
115	29.8	24.2	36.4

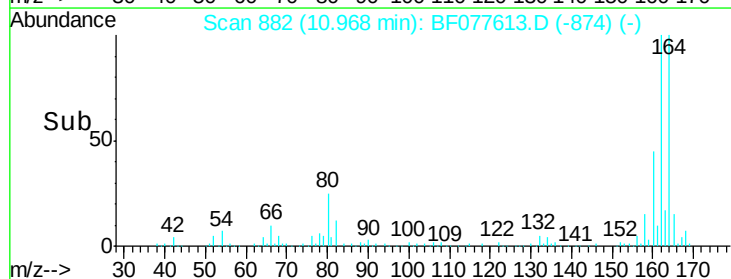
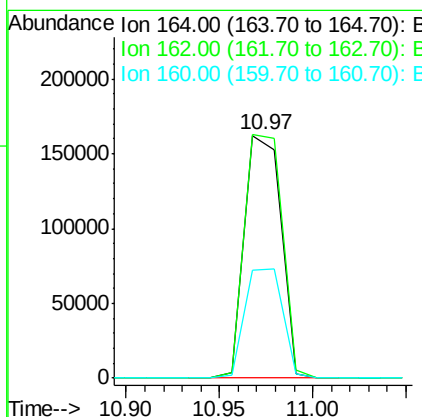
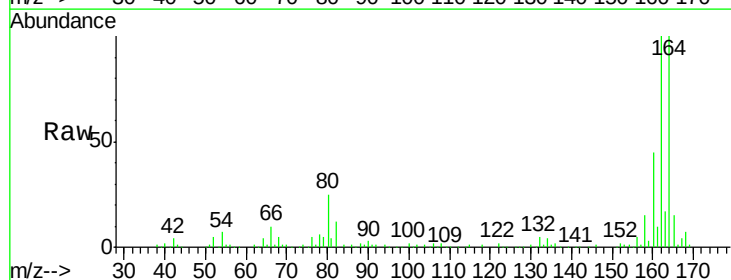
Manual Integrations
APPROVED

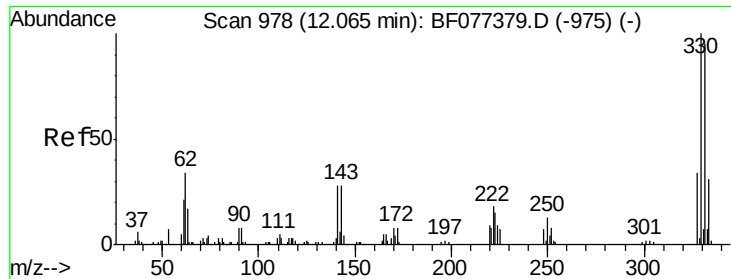
mohammad
3/5/2015 2:11:42 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.97 min Scan# 882
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.5	83.2	124.8
160	44.7	34.6	52.0





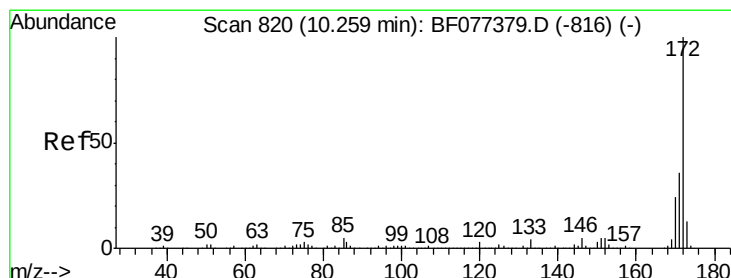
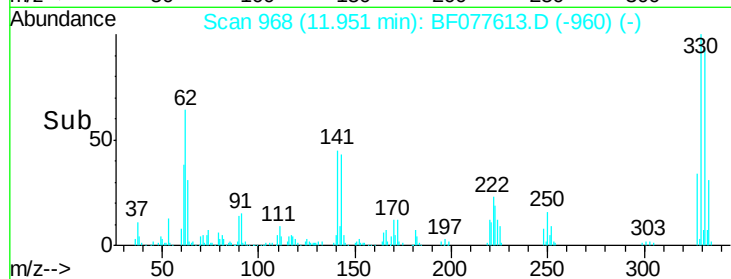
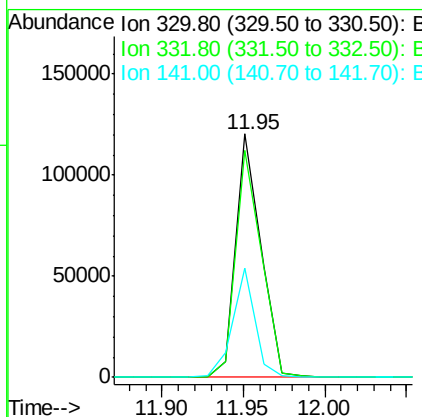
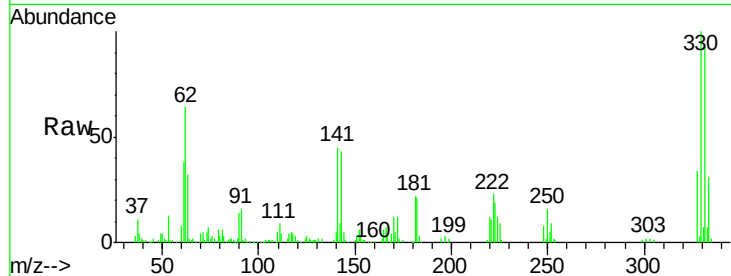
#41
 2,4,6-Tribromophenol
 Concen: 60.22 ng
 RT: 11.95 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Instrument :
 BNA_F
 ClientSampled :
 SA-2

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	127819		
332	95.1		77.4	116.2
141	40.3		28.8	43.2

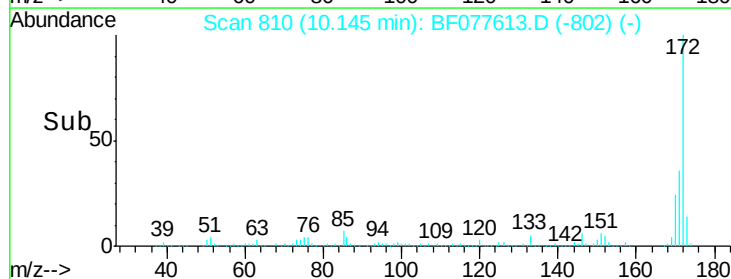
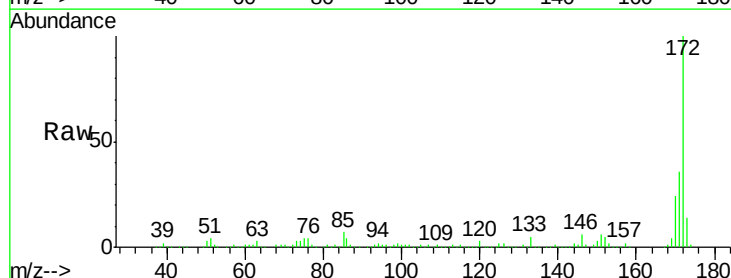
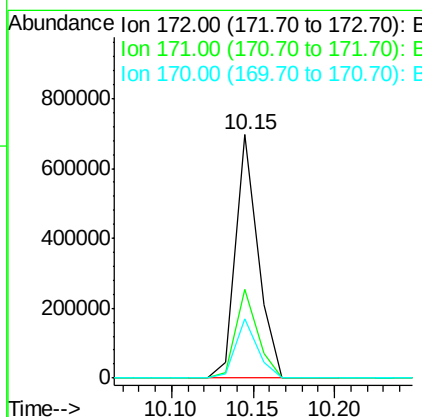
Manual Integrations
 APPROVED

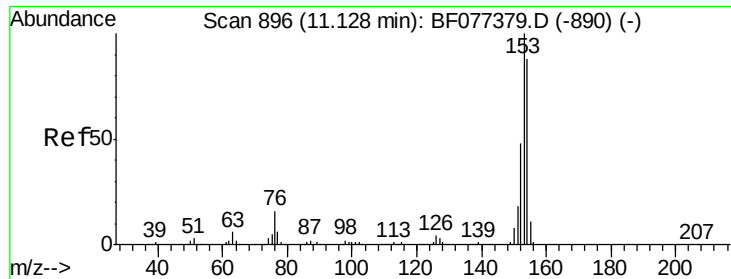
mohammad
 3/5/2015 2:11:42 PM



#44
 2-Fluorobiphenyl
 Concen: 46.40 ng
 RT: 10.15 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	655971		
171	36.2		28.9	43.3
170	24.1		19.4	29.2





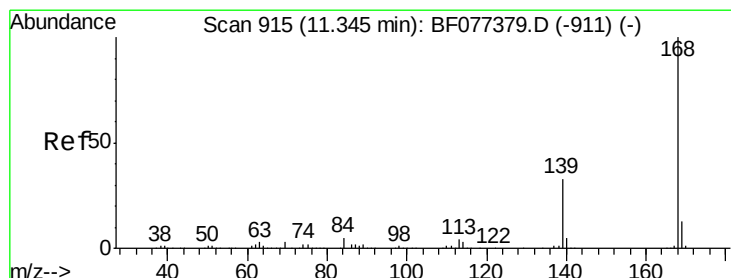
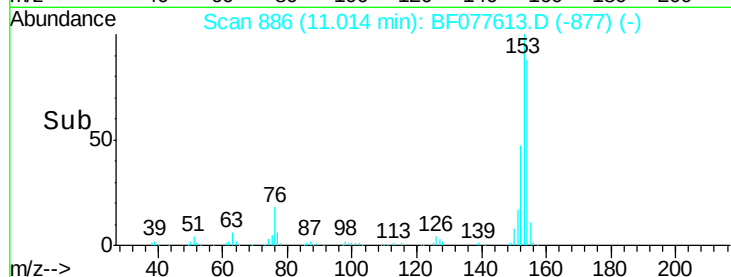
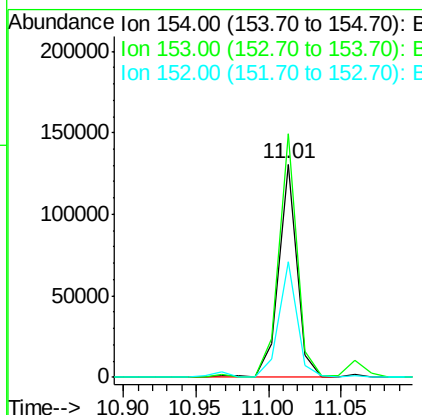
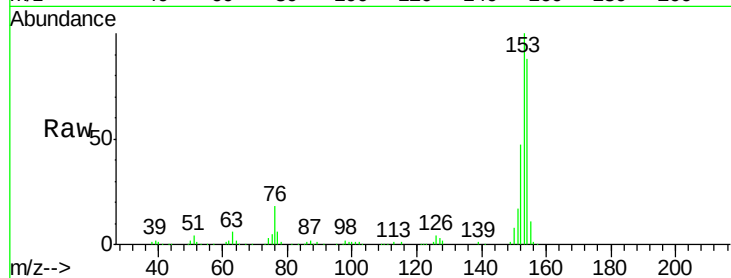
#51
Acenaphthene
Concen: 9.26 ng
RT: 11.01 min Scan# 886
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Instrument :
BNA_F
ClientSampleId :
SA-2

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	114589		
153	114.1	90.5	135.7	
152	53.9	43.5	65.3	

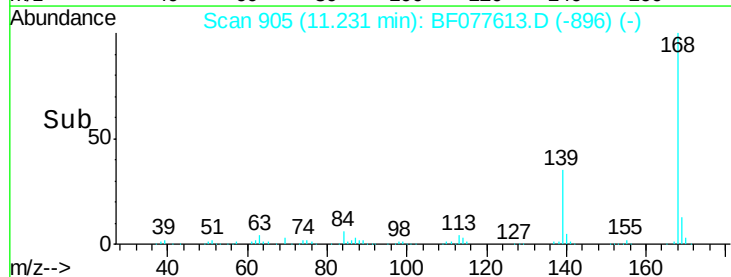
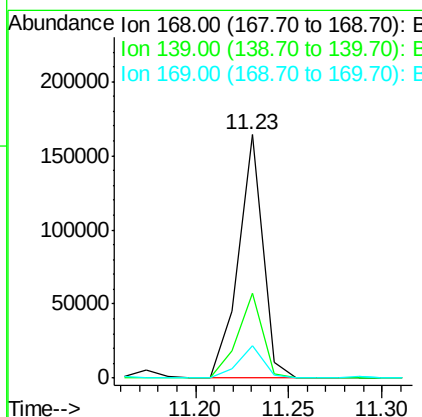
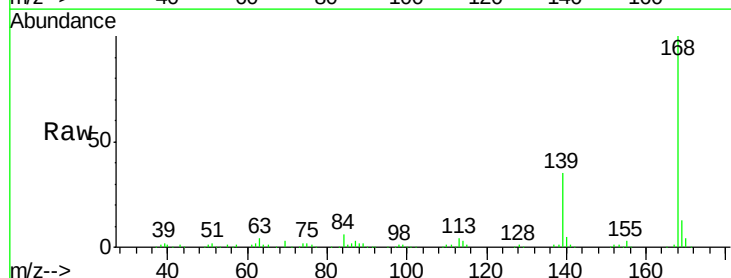
Manual Integrations
APPROVED

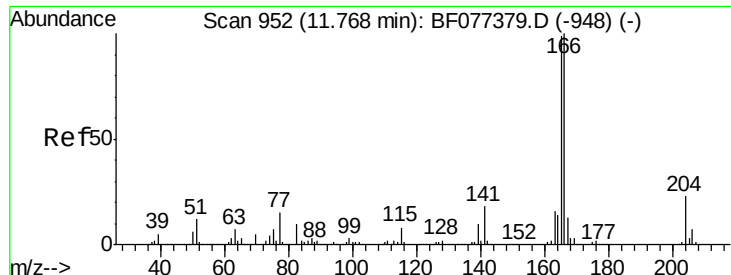
mohammad
3/5/2015 2:11:42 PM



#54
Dibenzofuran
Concen: 7.95 ng
RT: 11.23 min Scan# 905
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	151953		
139	34.6	29.3	43.9	
169	13.4	10.9	16.3	





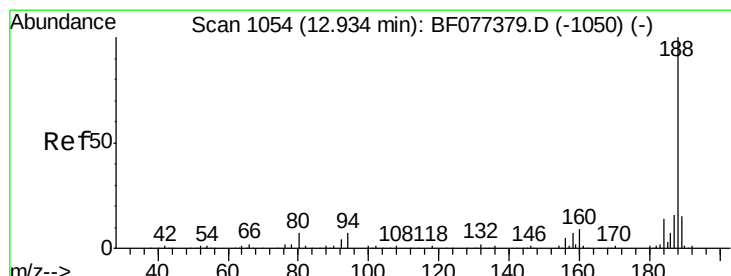
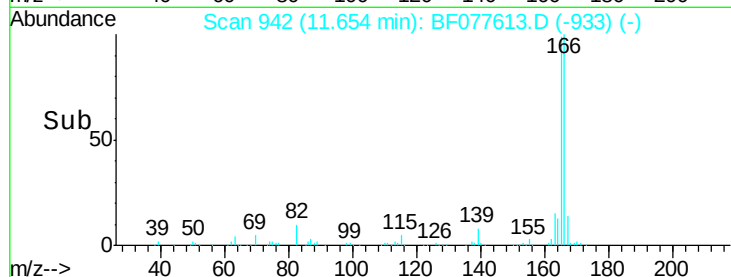
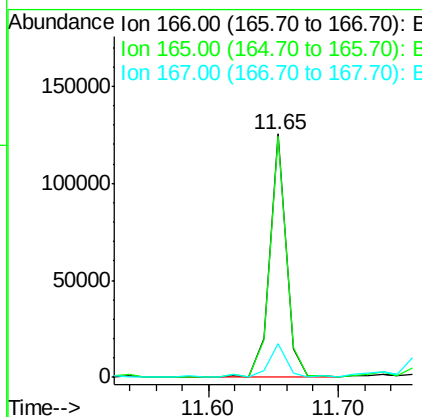
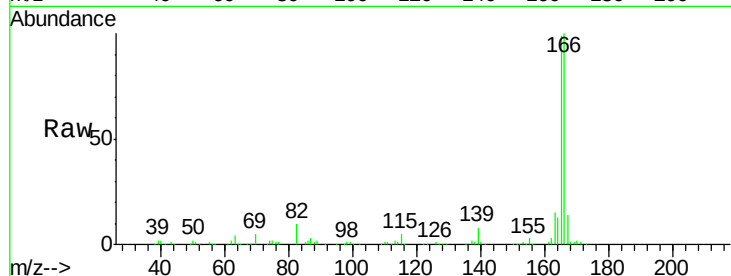
#57
Fluorene
Concen: 7.29 ng
RT: 11.65 min Scan# 942
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Instrument :
BNA_F
ClientSampleId :
SA-2

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	111266		
165	99.2	77.6	116.4	
167	13.8	10.6	16.0	

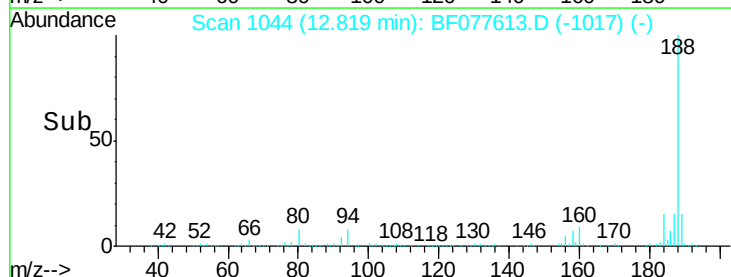
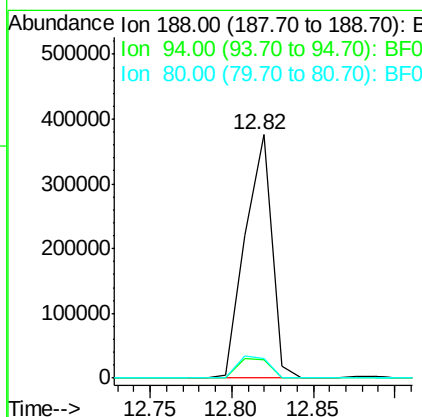
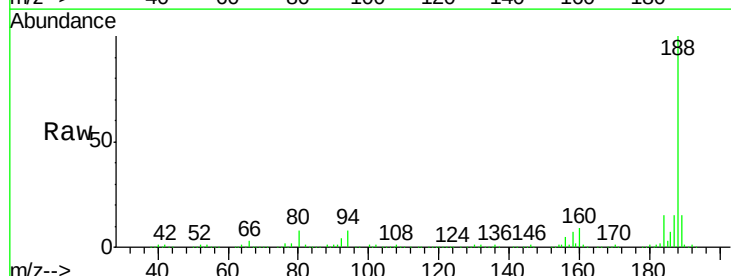
Manual Integrations
APPROVED

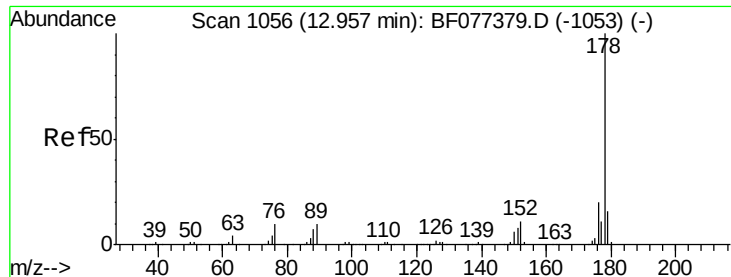
mohammad
3/5/2015 2:11:42 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.82 min Scan# 1044
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	425413		
94	7.5	7.4	11.2	
80	7.9	8.0	12.0	





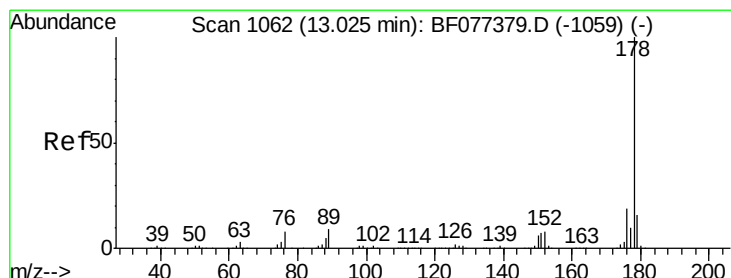
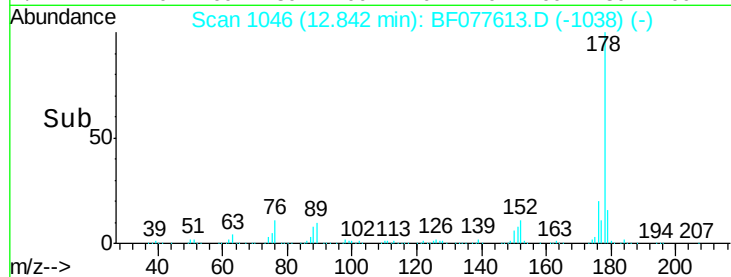
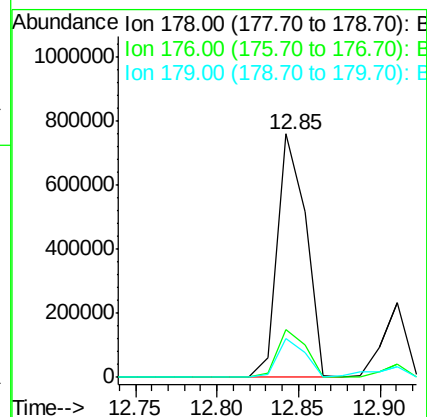
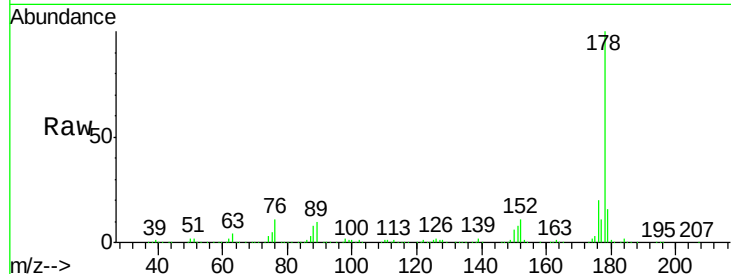
#70
Phenanthrene
Concen: 37.49 ng
RT: 12.85 min Scan# 1046
Delta R.T. 0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Instrument :
BNA_F
ClientSampleId :
SA-2

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	16.0	12.2	18.2

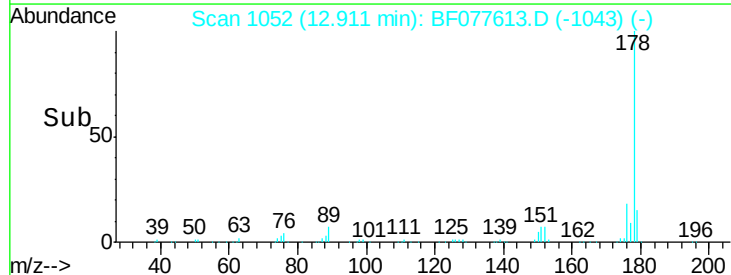
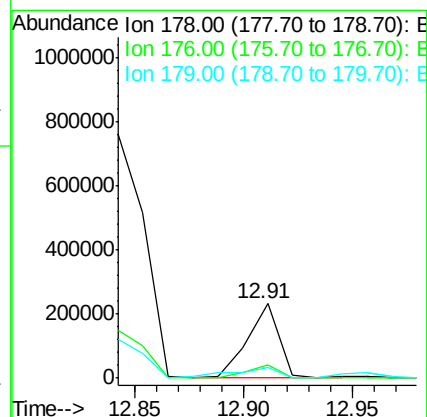
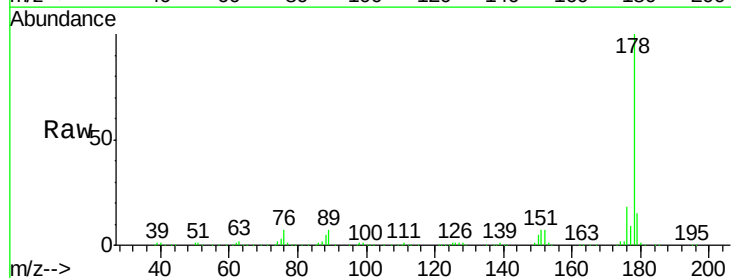
Manual Integrations
APPROVED

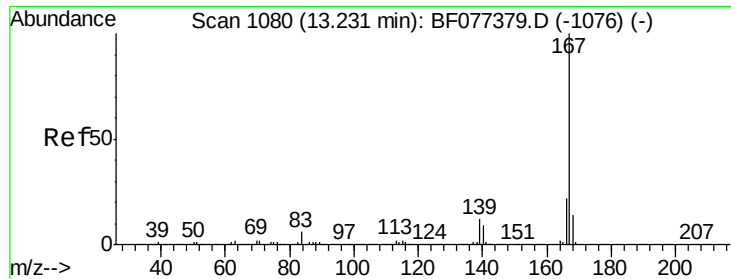
mohammad
3/5/2015 2:11:42 PM



#71
Anthracene
Concen: 9.27 ng
RT: 12.91 min Scan# 1052
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.0
179	15.2	12.9	19.3





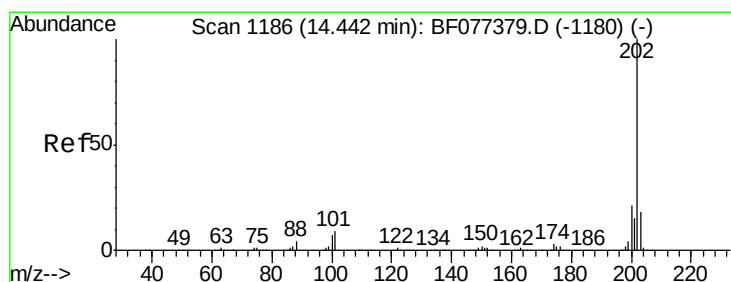
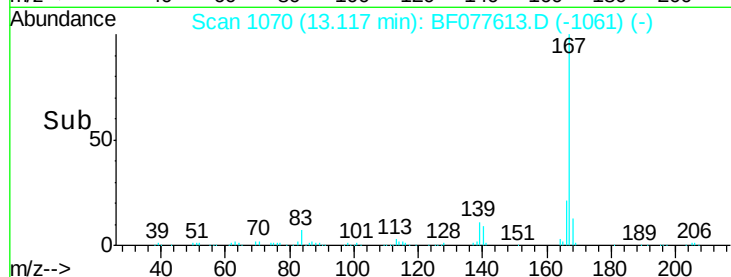
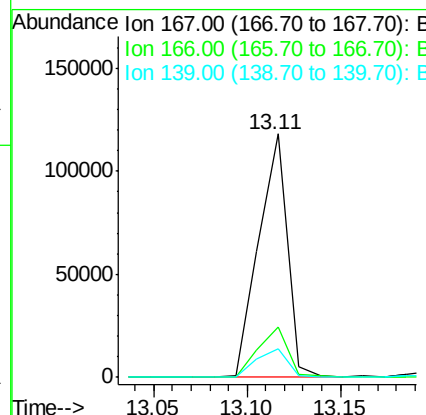
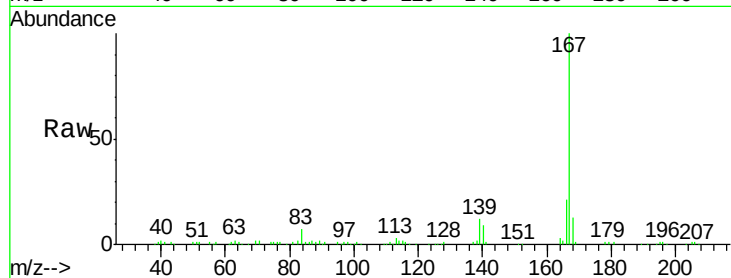
#72
 Carbazole
 Concen: 5.50 ng
 RT: 13.11 min Scan# 1070
 Delta R.T. -0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Instrument :
 BNA_F
 ClientSampleId :
 SA-2

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.6	26.4
139	11.6	9.9	14.9

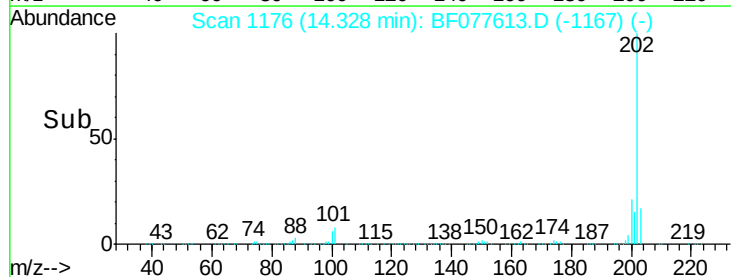
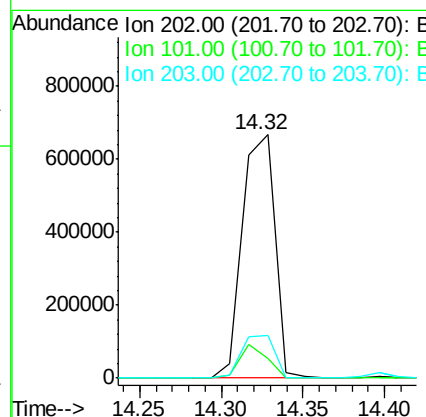
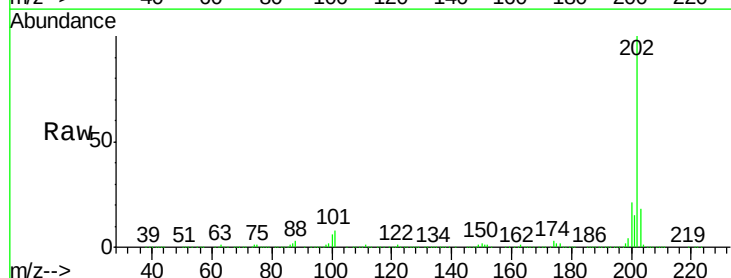
Manual Integrations
 APPROVED

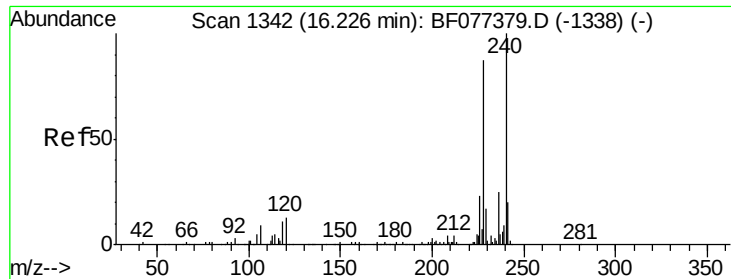
mohammad
 3/5/2015 2:11:42 PM



#74
 Fluoranthene
 Concen: 34.01 ng
 RT: 14.32 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.9	0.0	30.8
203	17.6	0.0	37.7





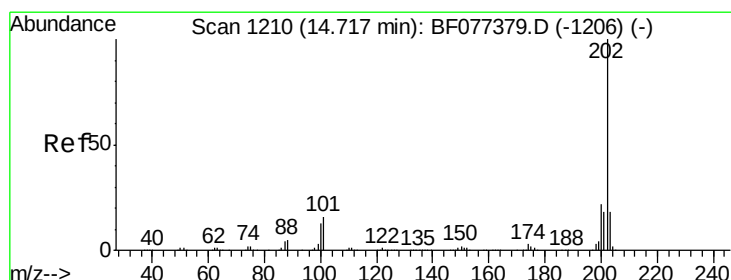
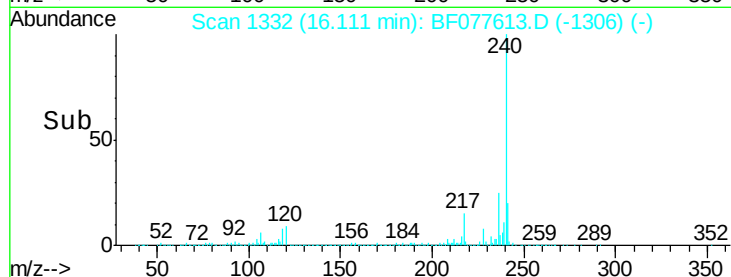
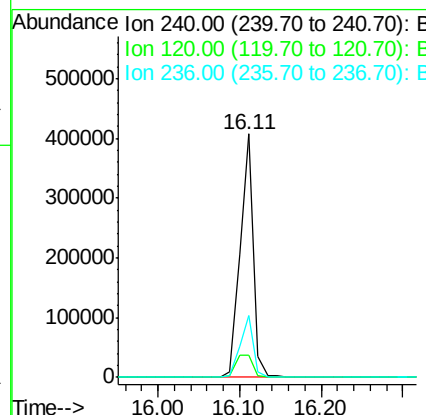
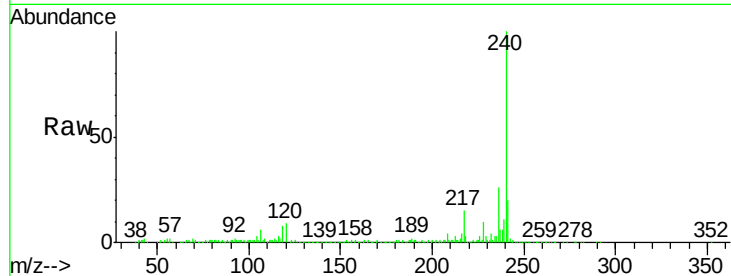
#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.11 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Instrument :
BNA_F
ClientSampleId :
SA-2

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100				
120	9.2	8.8	13.2		
236	25.5	20.7	31.1		

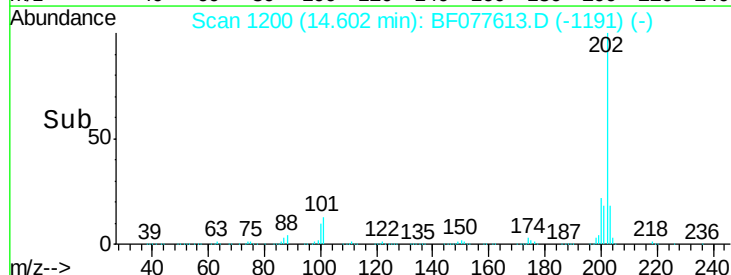
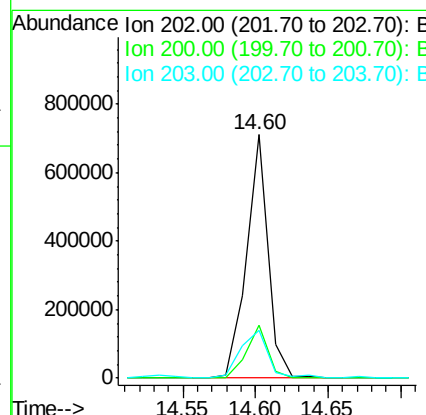
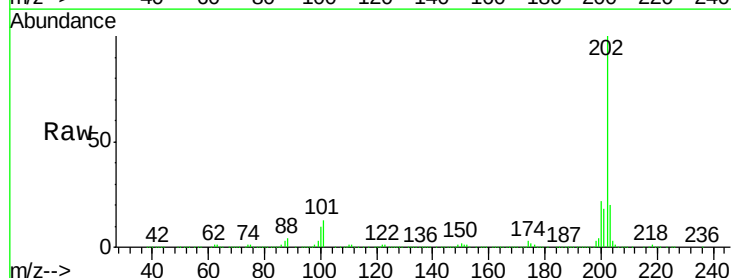
Manual Integrations
APPROVED

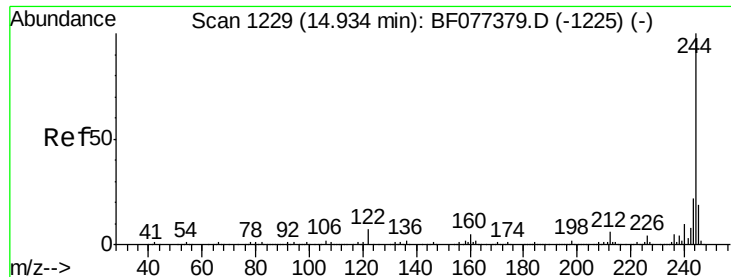
mohammad
3/5/2015 2:11:42 PM



#77
Pyrene
Concen: 26.21 ng
RT: 14.60 min Scan# 1200
Delta R.T. 0.00 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100				
200	21.8	17.1	25.7		
203	19.6	14.2	21.2		





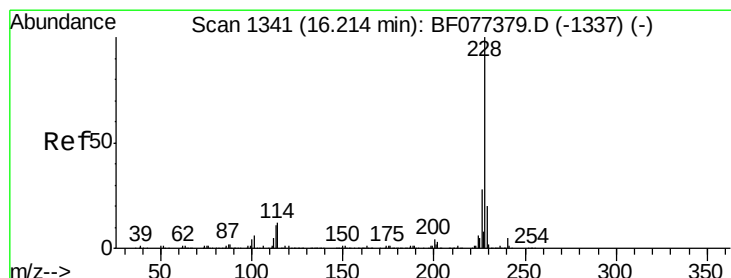
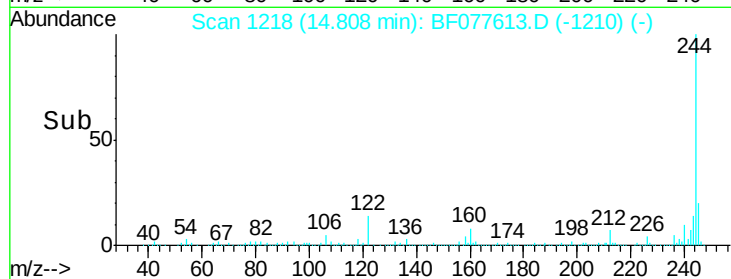
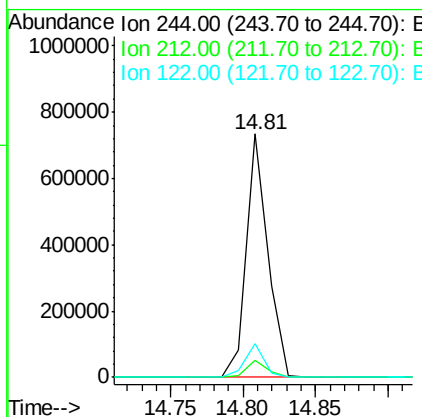
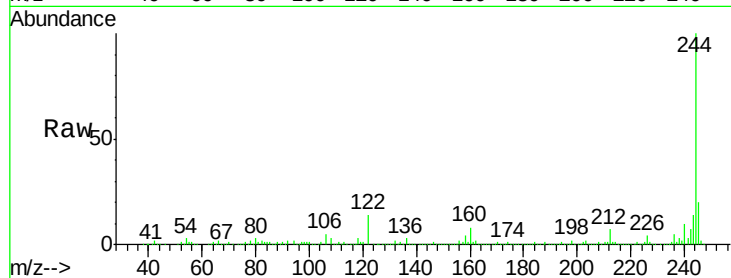
#78
 Terphenyl-d14
 Concen: 38.48 ng
 RT: 14.81 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Instrument :
 BNA_F
 ClientSampleId :
 SA-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.9	5.2	7.8
122	13.6	7.8	11.8

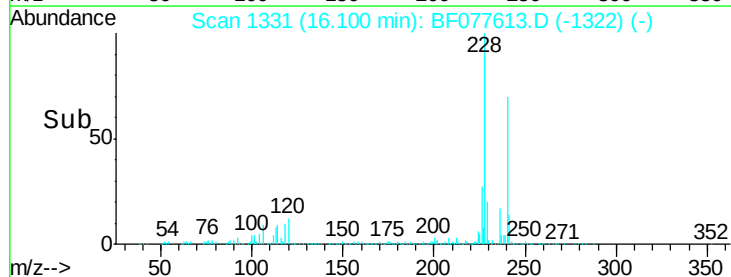
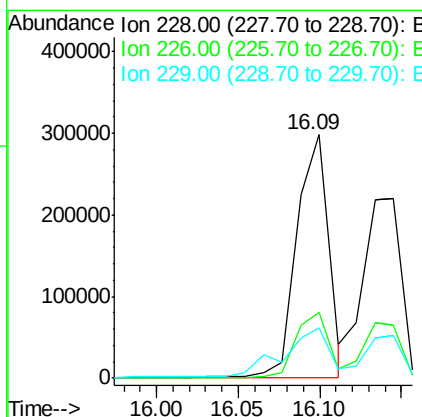
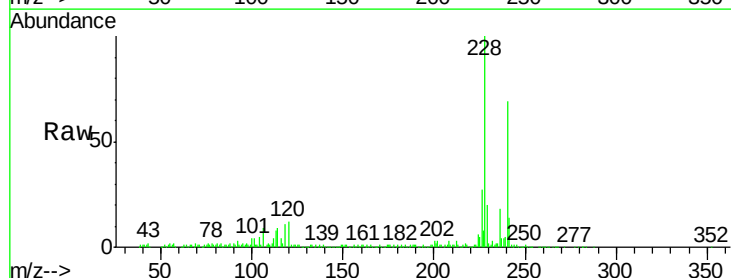
Manual Integrations
 APPROVED

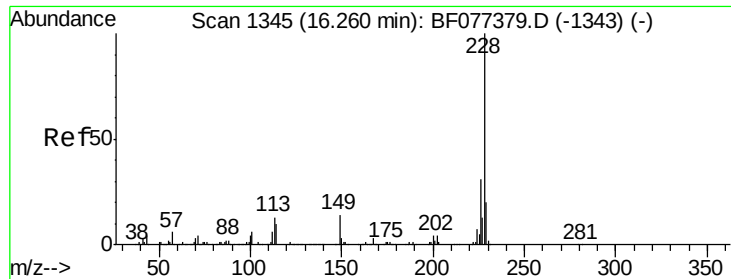
mohammad
 3/5/2015 2:11:42 PM



#80
 Benzo(a)anthracene
 Concen: 15.12 ng
 RT: 16.09 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: BF077613.D
 Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	27.2	22.0	33.0
229	20.5	15.8	23.8





#82

Chrysene

Concen: 14.14 ng m

RT: 16.13 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF077613.D

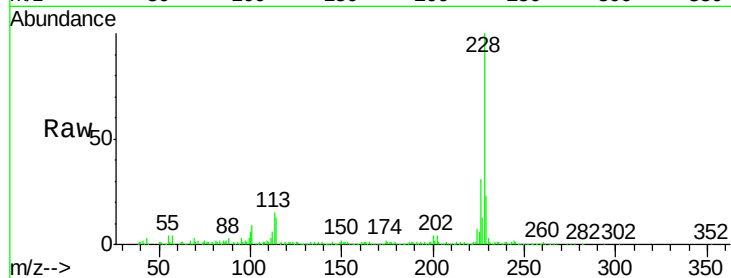
Acq: 5 Mar 2015 8:47

Instrument :

BNA_F

ClientSampled :

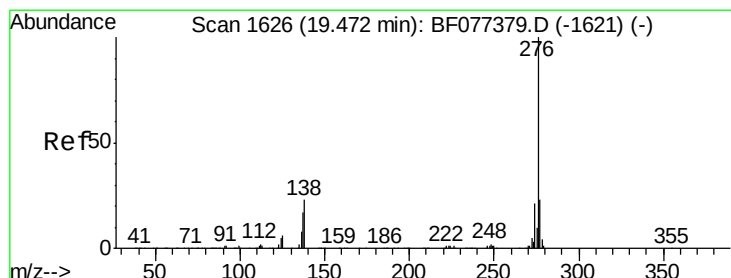
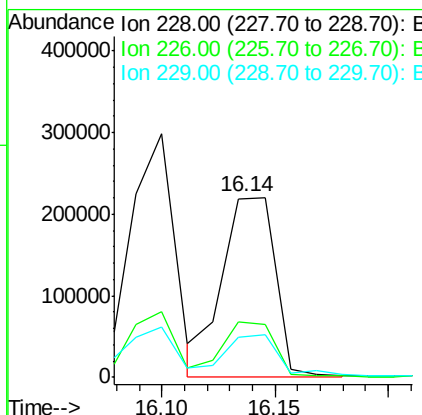
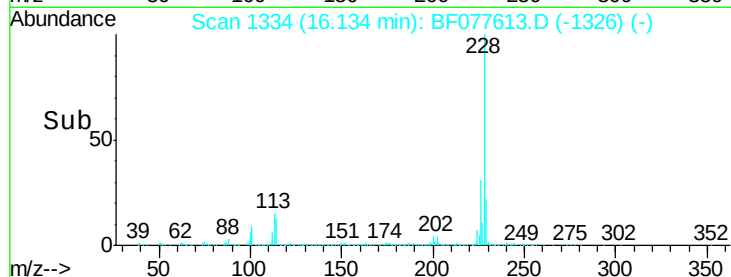
SA-2



Tgt Ion:	228	Resp:	355923
Ion Ratio	Lower	Upper	
228	100		
226	30.7	24.9	37.3
229	22.8	16.4	24.6

Manual Integrations
APPROVED

mohammad
3/5/2015 2:11:42 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.04 ng

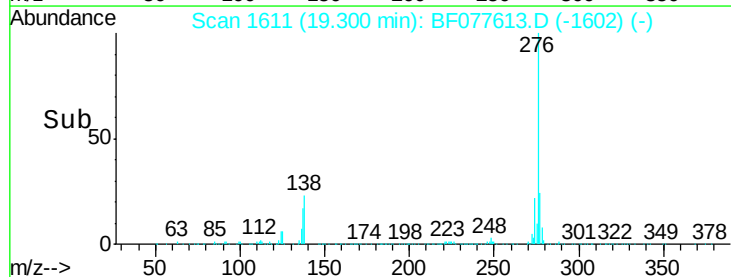
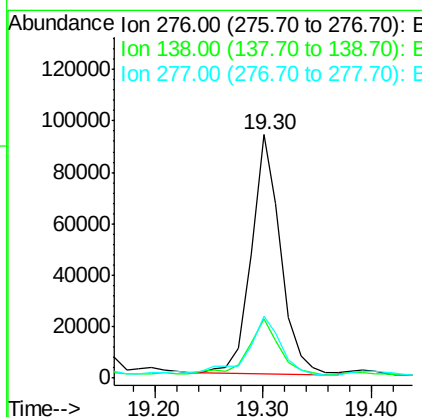
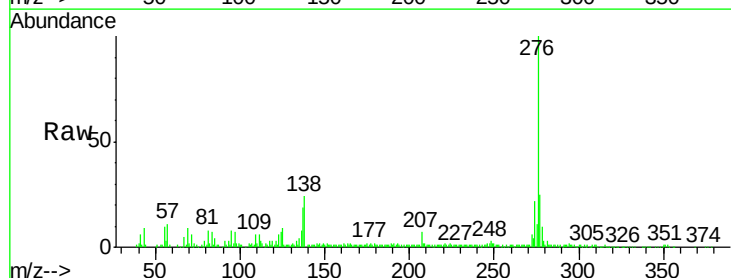
RT: 19.30 min Scan# 1611

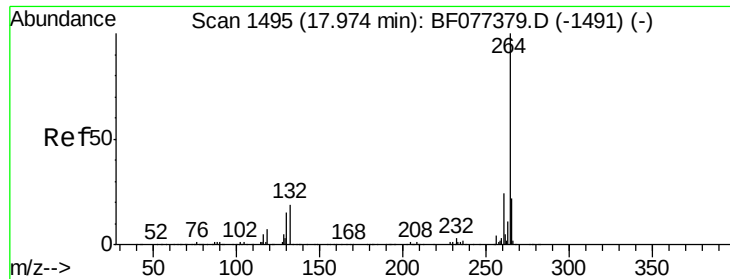
Delta R.T. 0.00 min

Lab File: BF077613.D

Acq: 5 Mar 2015 8:47

Tgt Ion:	276	Resp:	173326
Ion Ratio	Lower	Upper	
276	100		
138	25.5	21.2	31.8
277	27.8	20.0	30.0





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.87 min Scan# 1486

Delta R.T. 0.01 min

Lab File: BF077613.D

Acq: 5 Mar 2015 8:47

Instrument :

BNA_F

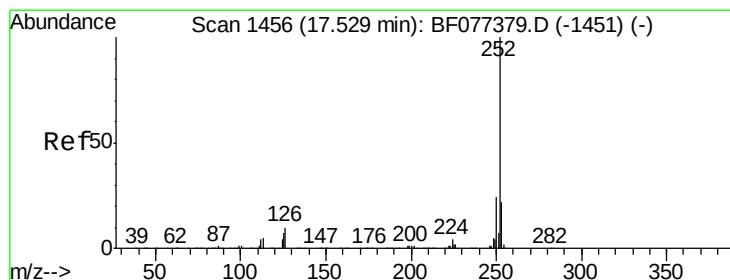
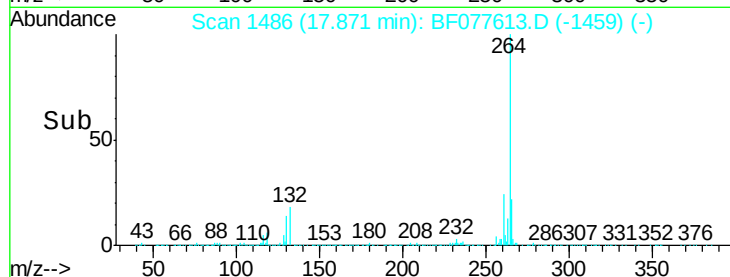
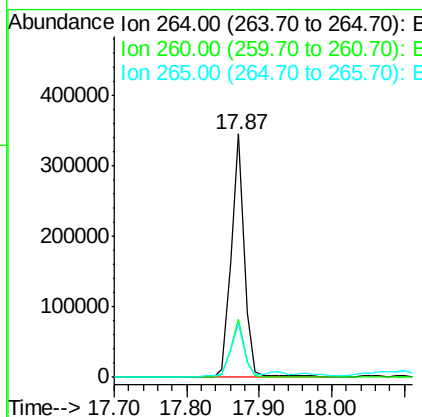
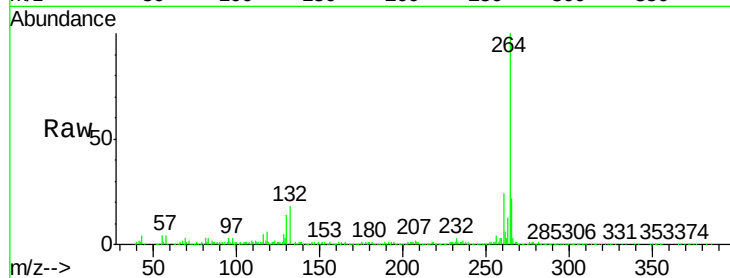
ClientSampleId :

SA-2

Tgt Ion:	264	Resp:	435138
Ion Ratio		Lower	Upper
264	100		
260	23.9	19.3	28.9
265	22.5	16.8	25.2

Manual Integrations
APPROVED

mohammad
3/5/2015 2:11:42 PM



#87

Benzo(b)fluoranthene

Concen: 18.53 ng m

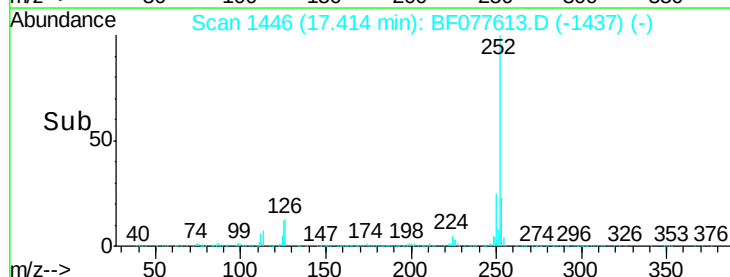
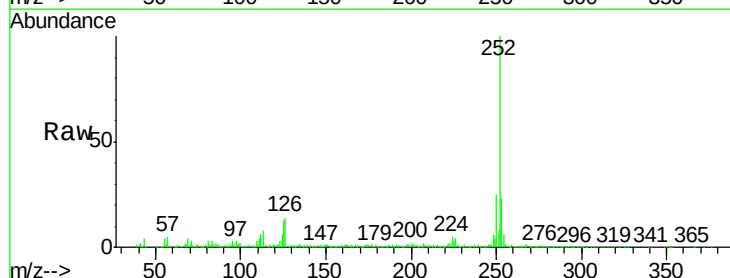
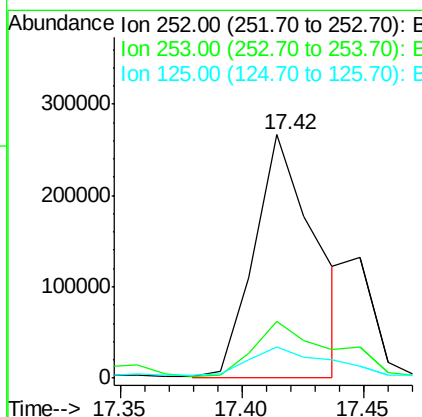
RT: 17.41 min Scan# 1446

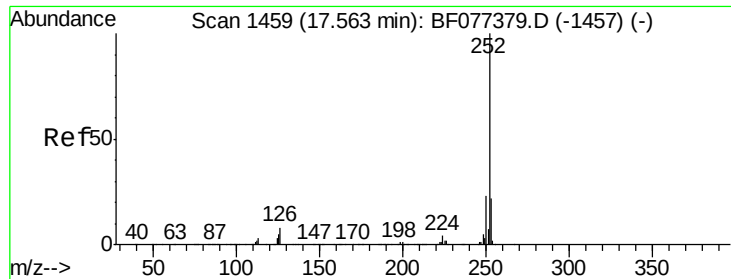
Delta R.T. 0.00 min

Lab File: BF077613.D

Acq: 5 Mar 2015 8:47

Tgt Ion:	252	Resp:	468923
Ion Ratio		Lower	Upper
252	100		
253	23.3	17.6	26.4
125	12.8	5.4	8.2#





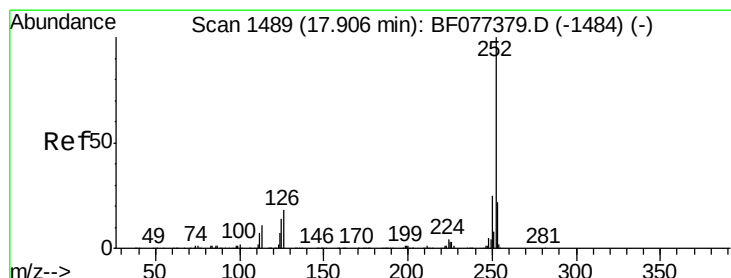
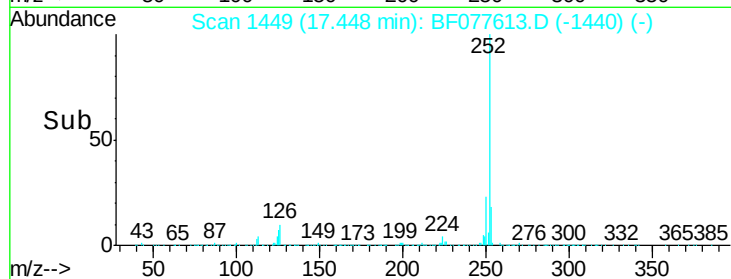
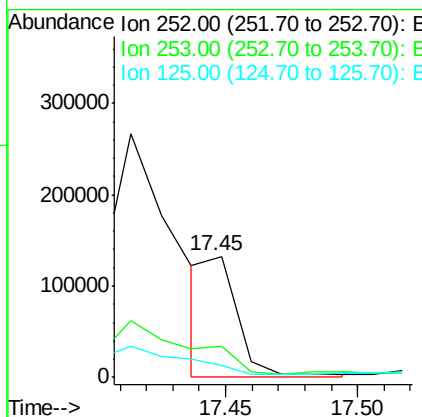
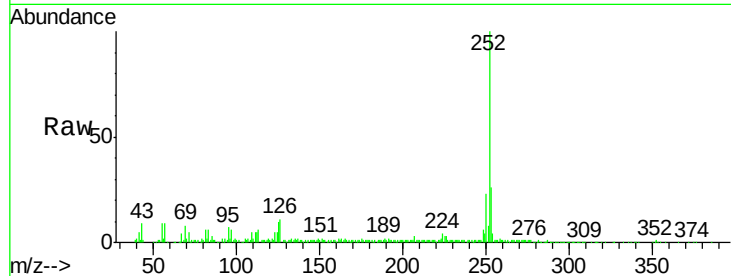
#88
Benzo(k)fluoranthene
Concen: 4.40 ng m
RT: 17.45 min Scan# 1449
Delta R.T. 0.01 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Instrument :
BNA_F
ClientSampled :
SA-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	26.2	18.1	27.1
125	9.7	10.1	15.1#

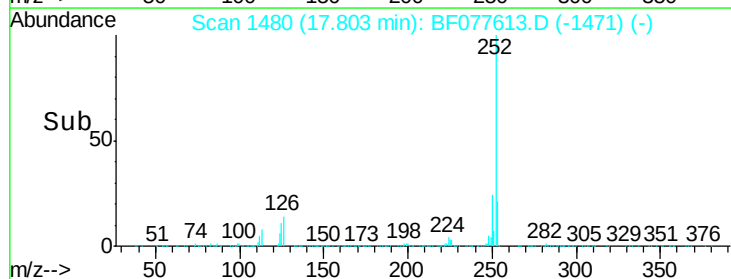
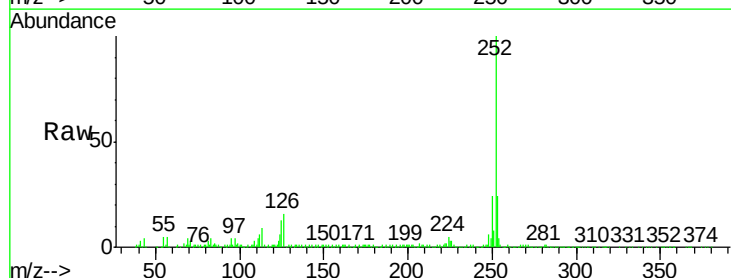
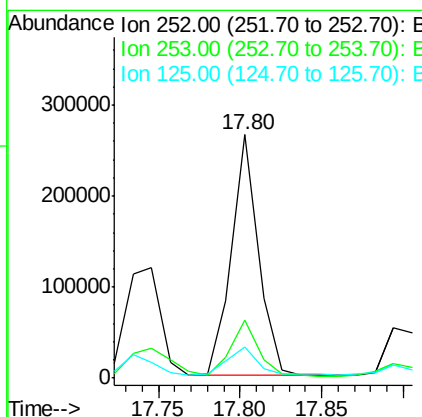
Manual Integrations
APPROVED

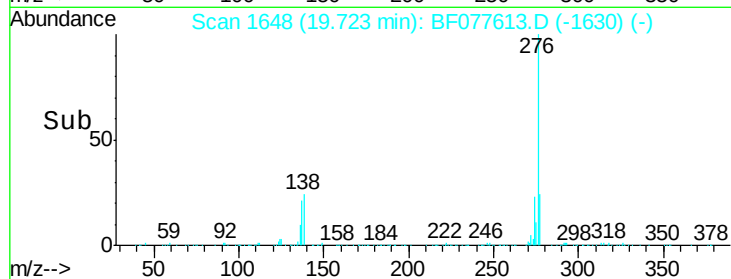
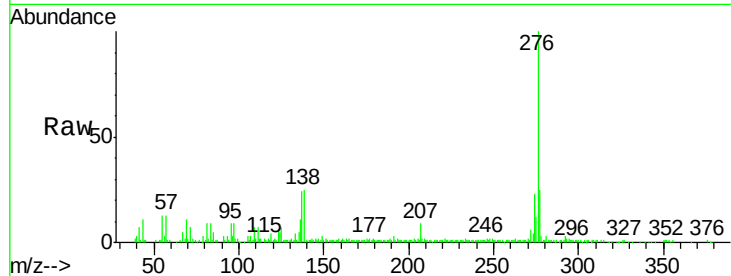
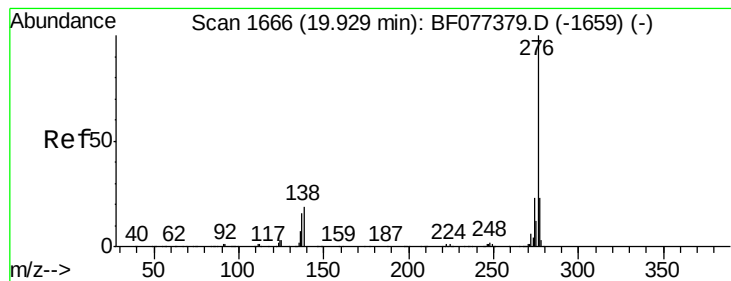
mohammad
3/5/2015 2:11:42 PM



#89
Benzo(a)pyrene
Concen: 12.53 ng
RT: 17.80 min Scan# 1480
Delta R.T. 0.01 min
Lab File: BF077613.D
Acq: 5 Mar 2015 8:47

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.9	18.2	27.2
125	12.6	8.3	12.5#





#91

Benzo(g,h,i)perylene

Concen: 6.79 ng

RT: 19.73 min Scan# 1648

Delta R.T. 0.01 min

Lab File: BF077613.D

Acq: 5 Mar 2015 8:47

Instrument :

BNA_F

ClientSampleId :

SA-2

Tgt Ion:	276	Resp:	157493
Ion Ratio	Lower	Upper	
276	100		
277	24.9	18.9	28.3
138	25.4	20.5	30.7

Manual Integrations
APPROVED

mohammad
3/5/2015 2:11:42 PM

