

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
 Data File : BF078955.D
 Acq On : 6 May 2015 12:46
 Operator : TP/IZ
 Sample : G2114-02
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)

Manual Integrations
 APPROVED

apatel
 5/7/2015 1:49:33 PM

Quant Time: May 07 11:29:32 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 07 00:45:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	68275	20.00	ng	0.00
21) Naphthalene-d8	8.92	136	283795	20.00	ng	0.00
38) Acenaphthene-d10	11.10	164	135662	20.00	ng	0.00
63) Phenanthrene-d10	12.95	188	266052	20.00	ng	0.00
75) Chrysene-d12	16.25	240	277140	20.00	ng	-0.06
86) Perylene-d12	18.02	264	324211	20.00	ng	-0.21
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	369747	93.22	ng	0.01
7) Phenol-d6	6.89	99	493043	94.04	ng	0.00
23) Nitrobenzene-d5	8.03	82	276420	55.98	ng	0.00
41) 2,4,6-Tribromophenol	12.08	330	136651	93.11	ng	0.00
44) 2-Fluorobiphenyl	10.27	172	555094	57.01	ng	0.00
78) Terphenyl-d14	14.95	244	650486m	56.19	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.95	128	103555	7.66	ng	98
37) 2-Methylnaphthalene	9.80	142	41983	4.48	ng	96
49) Dimethylphthalate	10.78	163	33001	3.31	ng	98
51) Acenaphthene	11.14	154	81597	9.91	ng	99
54) Dibenzofuran	11.36	168	133962	11.26	ng	94
57) Fluorene	11.78	166	124308	12.73	ng	100
70) Phenanthrene	12.98	178	1422254	95.56	ng	99
71) Anthracene	13.04	178	292952	20.06	ng	98
72) Carbazole	13.25	167	116968	8.40	ng	98
74) Fluoranthene	14.46	202	1271112	81.96	ng	100
77) Pyrene	14.74	202	1144316m	71.65	ng	
80) Benzo(a)anthracene	16.24	228	585618m	38.59	ng	
82) Chrysene	16.29	228	527602m	36.15	ng	
85) Indeno(1,2,3-cd)pyrene	19.52	276	287621m	15.47	ng	
87) Benzo(b)fluoranthene	17.57	252	685403m	38.62	ng	
88) Benzo(k)fluoranthene	17.60	252	149694m	8.71	ng	
89) Benzo(a)pyrene	17.95	252	439829	26.92	ng	# 92
90) Dibenzo(a,h)anthracene	19.54	278	73425	4.23	ng	# 90
91) Benzo(a,h,i)perylene	19.97	276	279811	16.08	ng	97

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

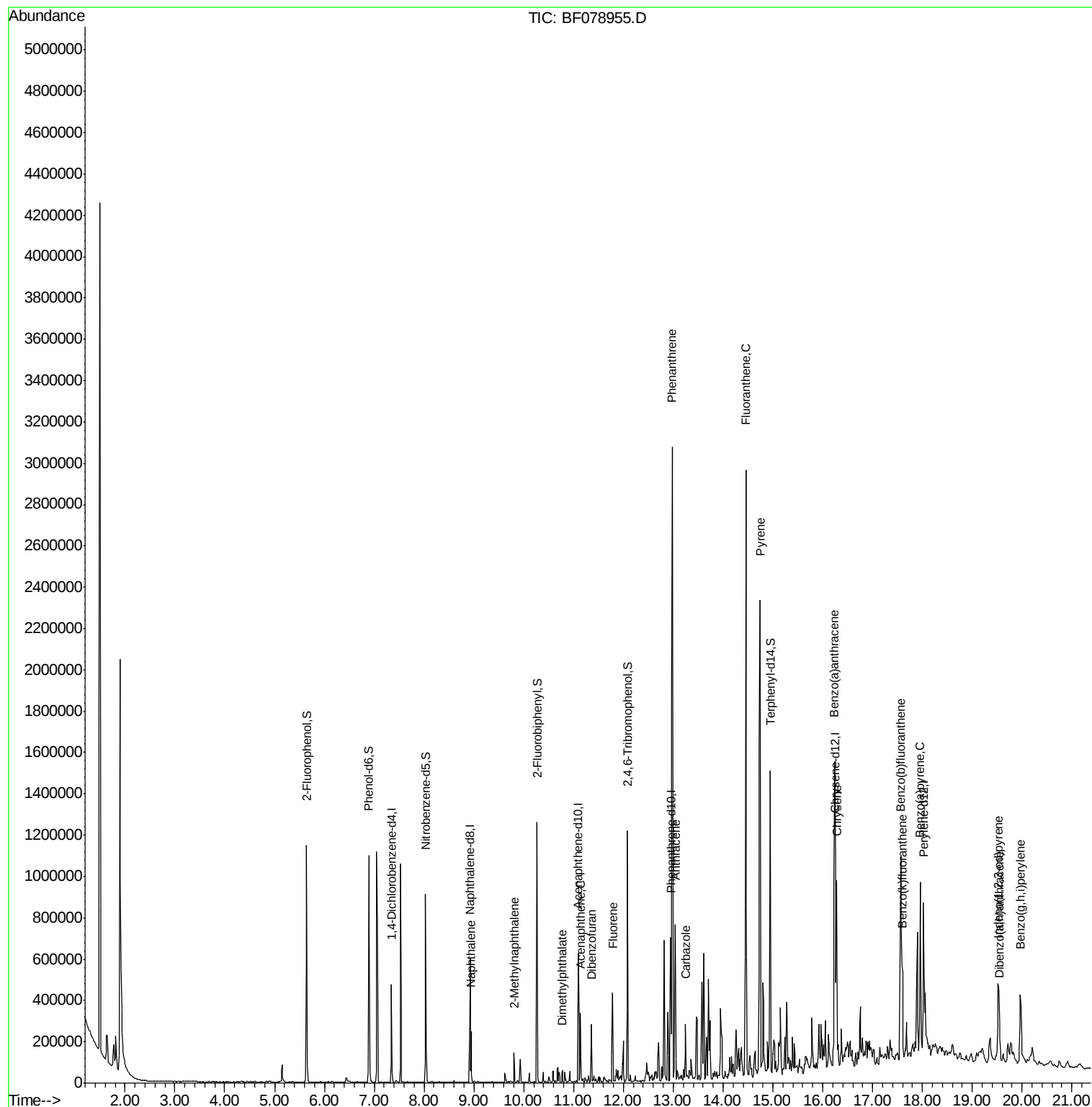
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078955.D
Acq On : 6 May 2015 12:46
Operator : TP/IZ
Sample : G2114-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

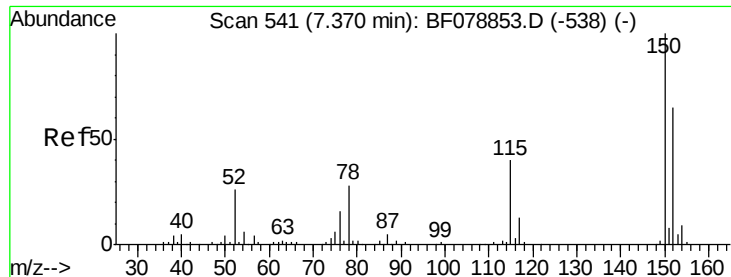
Instrument :
BNA_F
ClientSampled :
GRID-1(6-12)

Manual Integrations
APPROVED

apatel
5/7/2015 1:49:33 PM

Quant Time: May 07 11:29:32 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 07 00:45:56 2015
Response via : Initial Calibration





#1

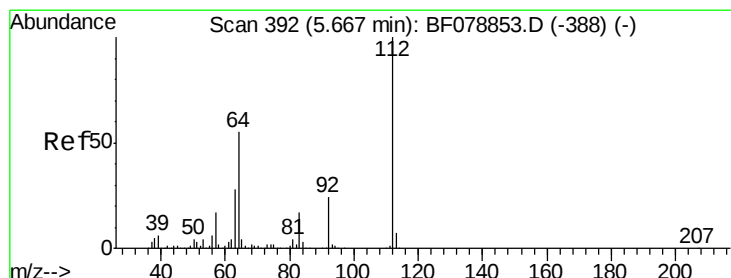
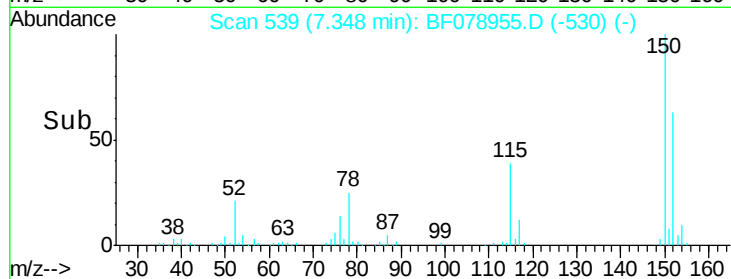
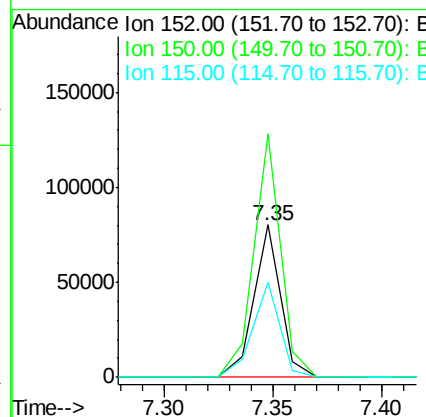
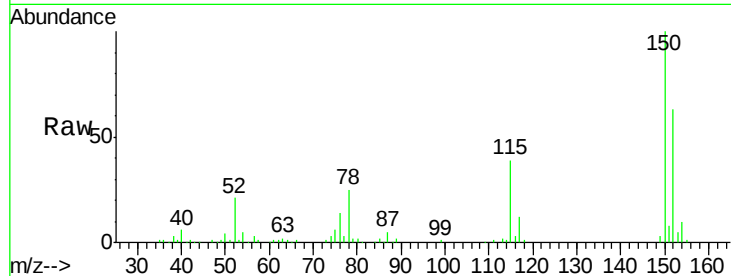
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.35 min Scan# 539
Delta R.T. 0.00 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	122.0	183.0
115	62.3	46.3	69.5

Manual Integrations
APPROVED

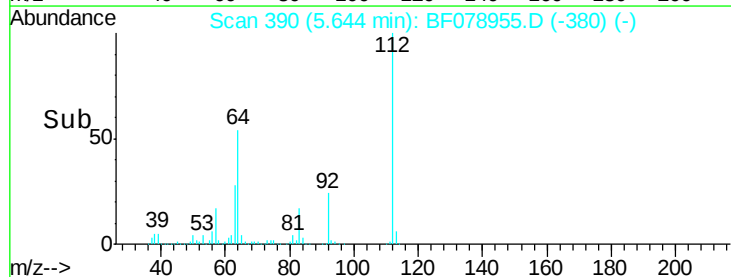
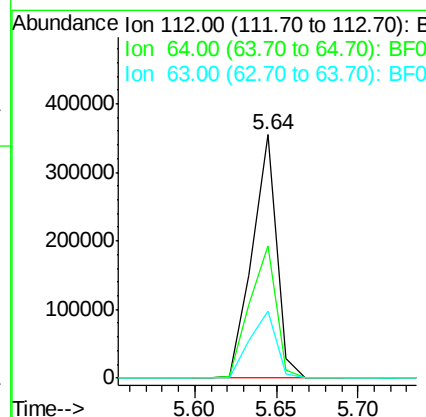
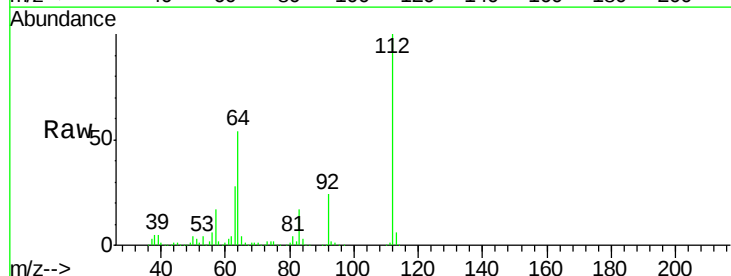
apatel
5/7/2015 1:49:33 PM

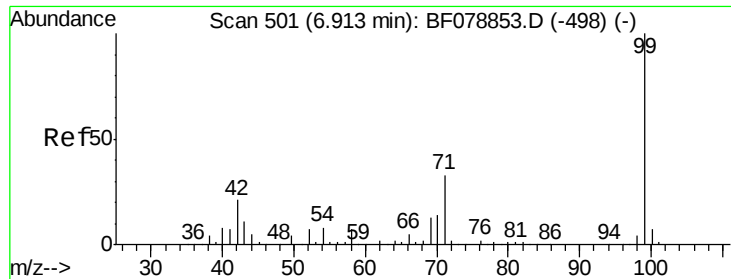


#5

2-Fluorophenol
Concen: 93.22 ng
RT: 5.64 min Scan# 390
Delta R.T. 0.01 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	53.5	80.3
63	27.6	27.5	41.3





#7

Phenol-d6

Concen: 94.04 ng

RT: 6.89 min Scan# 499

Delta R.T. 0.00 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Instrument :

BNA_F

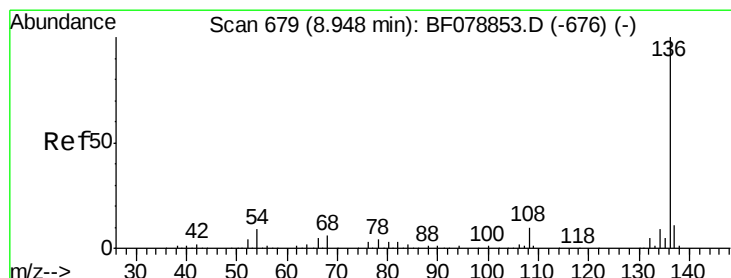
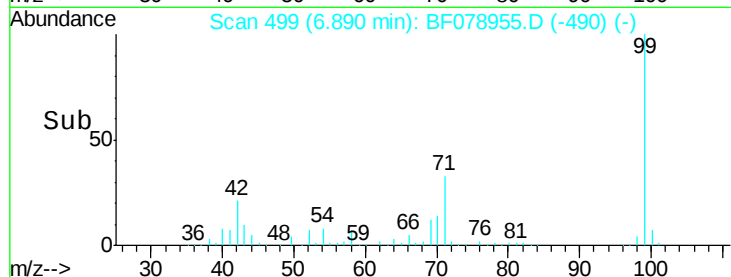
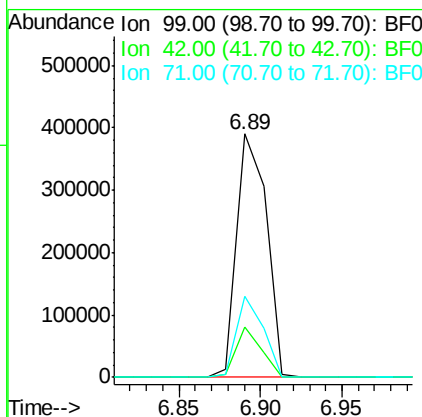
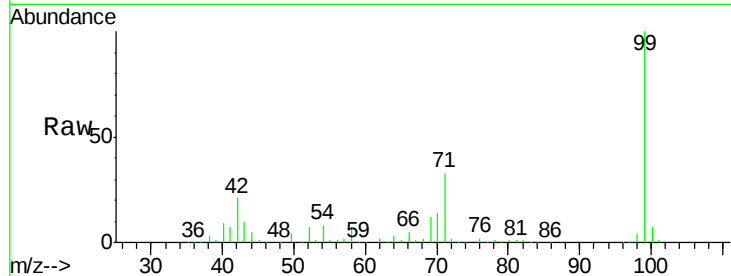
ClientSampleId :

GRID-1(6-12)

Tot Ion:	99	Resp:	493043
Ion Ratio	Lower	Upper	
99	100		
42	20.5	12.8	19.2#
71	33.1	23.4	35.2

Manual Integrations
APPROVED

apatel
5/7/2015 1:49:33 PM



#21

Naphthalene-d8

Concen: 20.00 ng

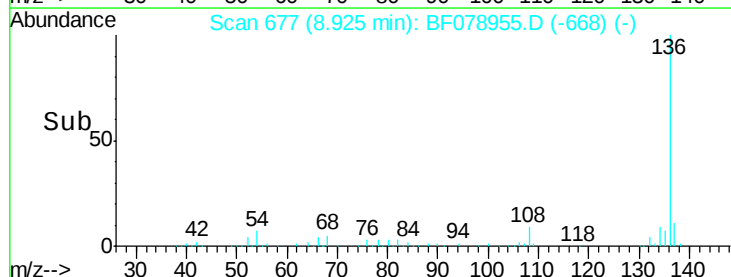
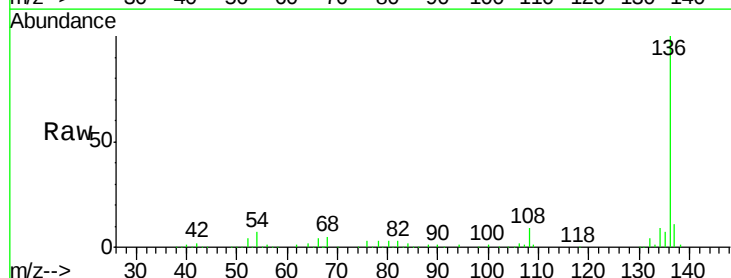
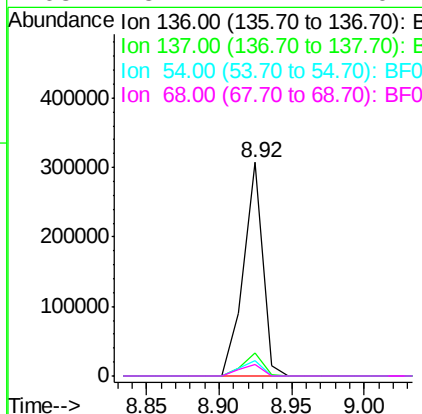
RT: 8.92 min Scan# 677

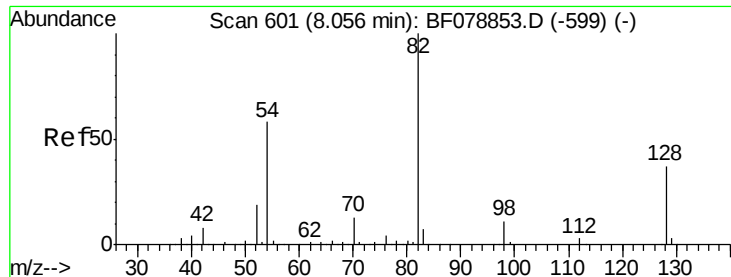
Delta R.T. 0.00 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Tgt Ion:	136	Resp:	283795
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.7	13.1
54	7.1	5.8	8.8
68	5.1	4.2	6.4





#23

Nitrobenzene-d5

Concen: 55.98 ng

RT: 8.03 min Scan# 599

Delta R.T. 0.00 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Instrument :

BNA_F

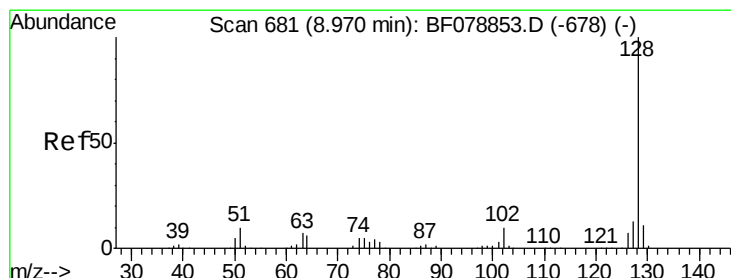
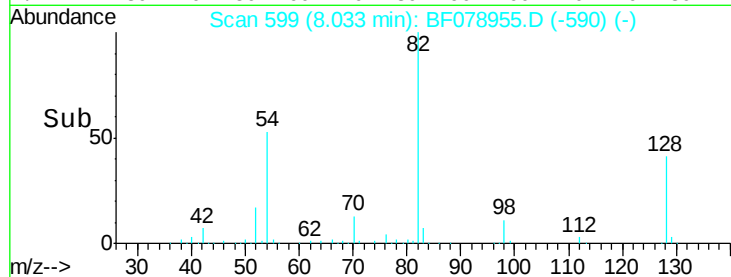
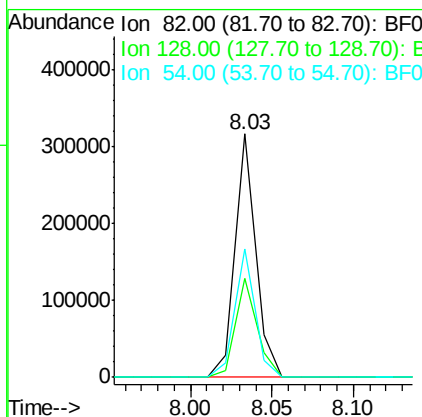
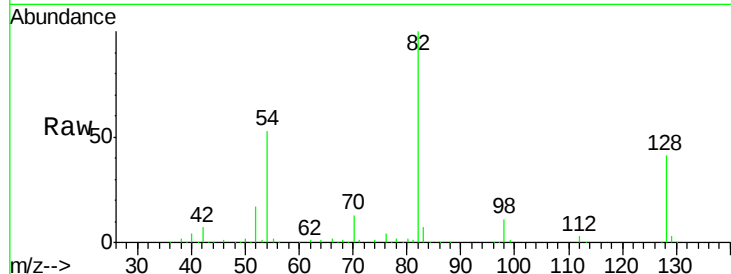
ClientSampleId :

GRID-1(6-12)

Tot Ion:	82	Resp:	276420
Ion Ratio		Lower	Upper
82	100		
128	40.5	30.0	45.0
54	52.9	46.4	69.6

Manual Integrations
APPROVED

apatel
5/7/2015 1:49:33 PM



#31

Naphthalene

Concen: 7.66 ng

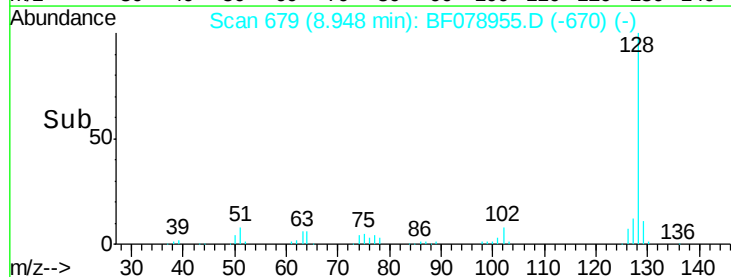
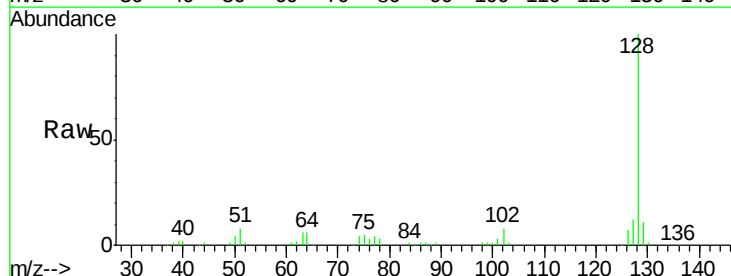
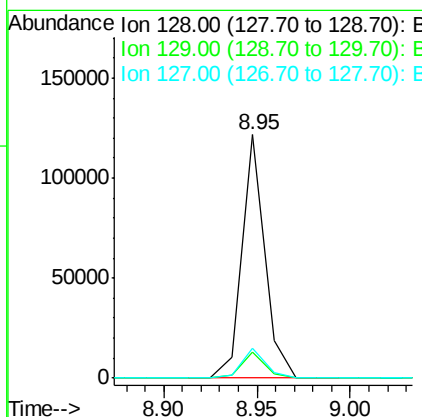
RT: 8.95 min Scan# 679

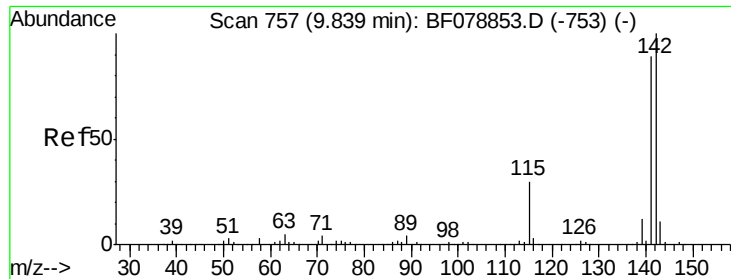
Delta R.T. 0.00 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Tgt Ion:	128	Resp:	103555
Ion Ratio		Lower	Upper
128	100		
129	10.8	9.3	13.9
127	12.4	10.7	16.1





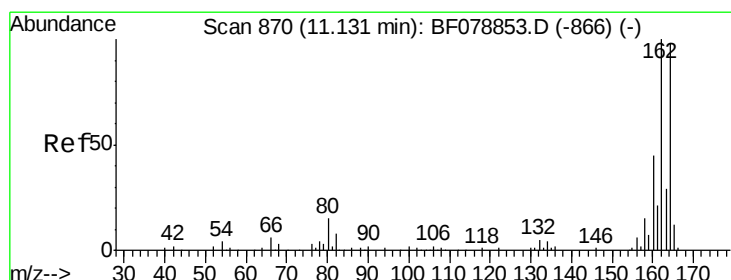
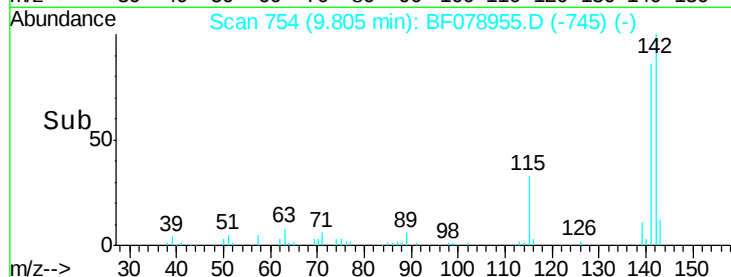
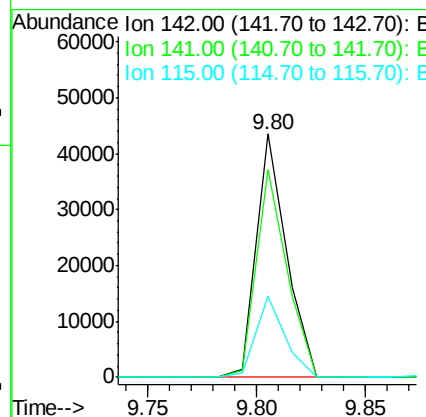
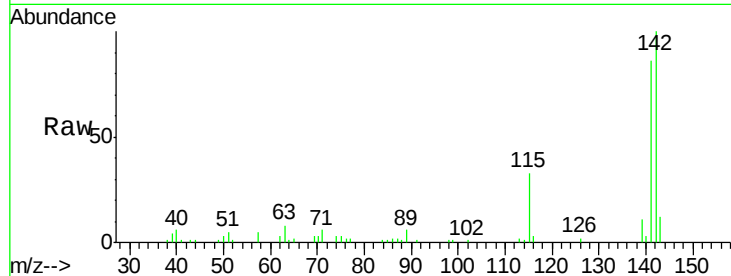
#37
2-Methylnaphthalene
Concen: 4.48 ng
RT: 9.80 min Scan# 754
Delta R.T. 0.00 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.5	70.9	106.3
115	33.1	28.5	42.7

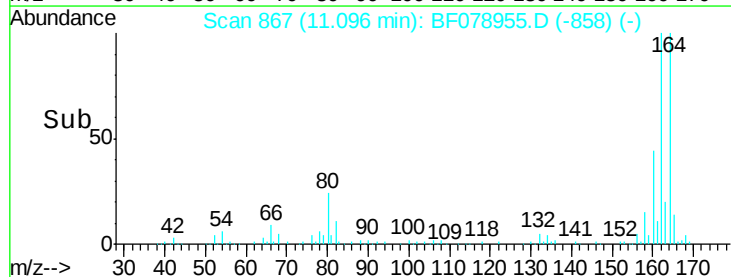
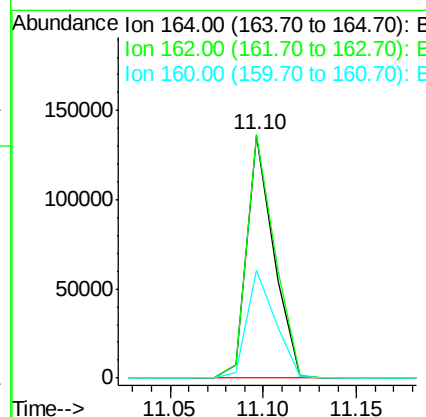
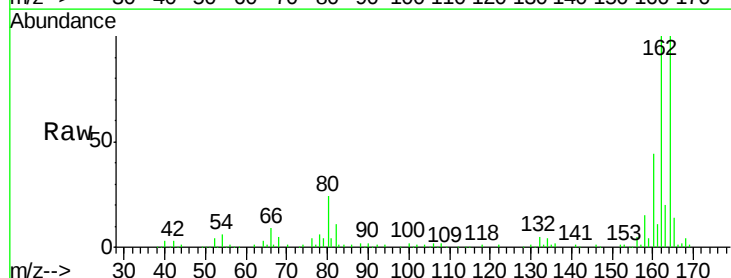
Manual Integrations
APPROVED

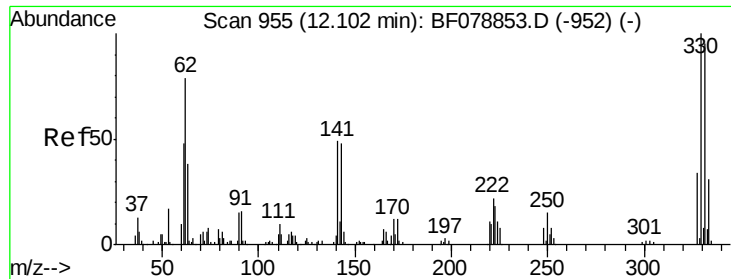
apatel
5/7/2015 1:49:33 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.10 min Scan# 867
Delta R.T. 0.00 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.4	82.7	124.1
160	44.5	35.8	53.8





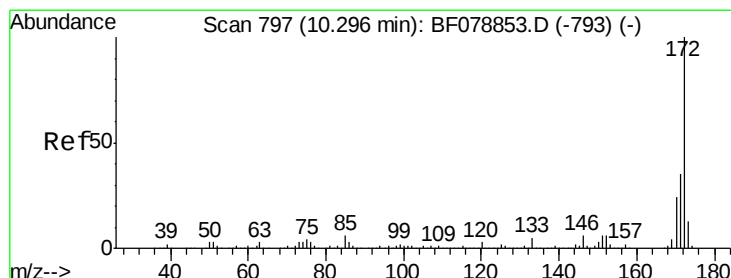
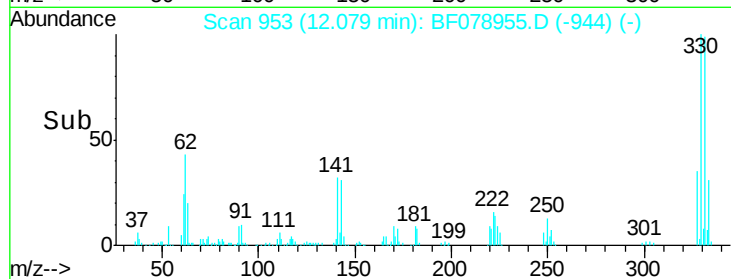
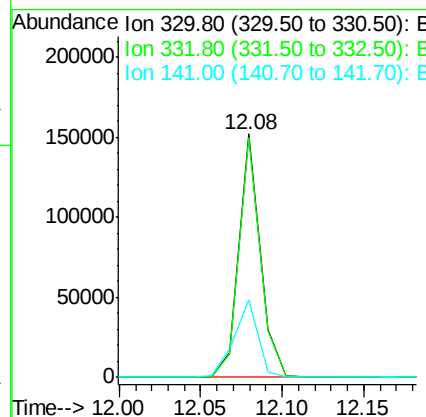
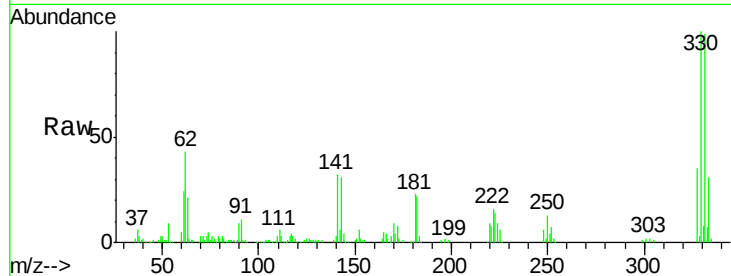
#41
 2,4,6-Tribromophenol
 Concen: 93.11 ng
 RT: 12.08 min Scan# 953
 Delta R.T. 0.00 min
 Lab File: BF078955.D
 Acq: 6 May 2015 12:46

Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	97.7	0.0	0.0#
141	35.7	0.0	0.0#

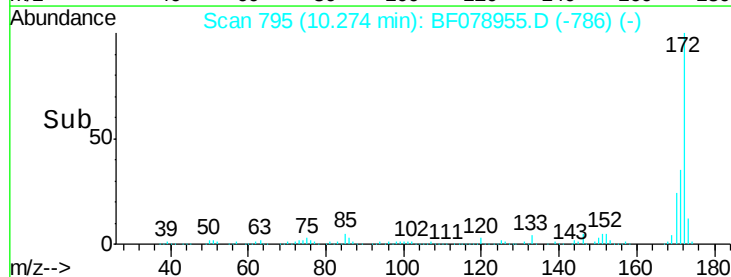
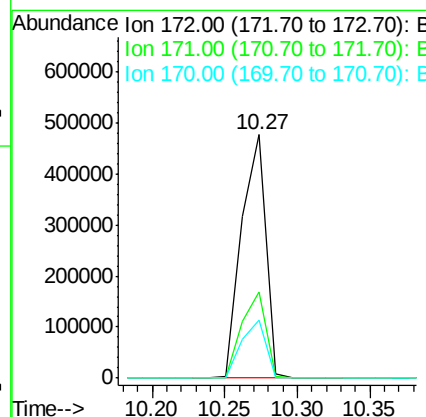
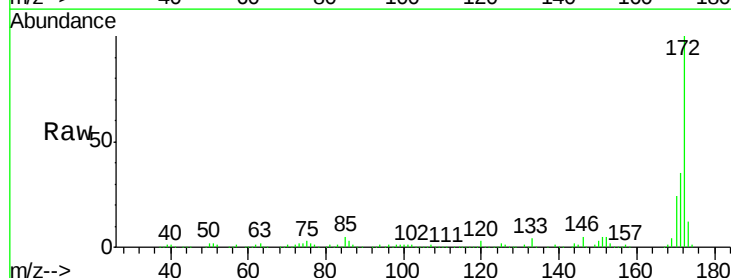
Manual Integrations
 APPROVED

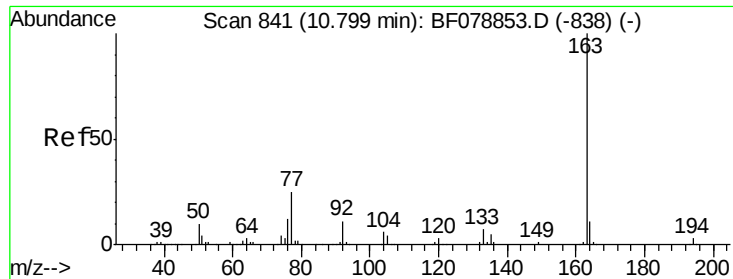
apatel
 5/7/2015 1:49:33 PM



#44
 2-Fluorobiphenyl
 Concen: 57.01 ng
 RT: 10.27 min Scan# 795
 Delta R.T. 0.00 min
 Lab File: BF078955.D
 Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	35.5	27.9	41.9
170	23.9	19.4	29.0





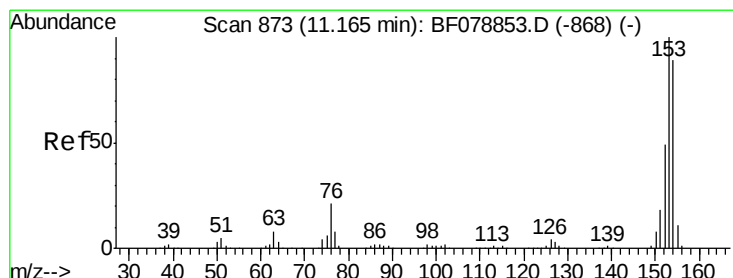
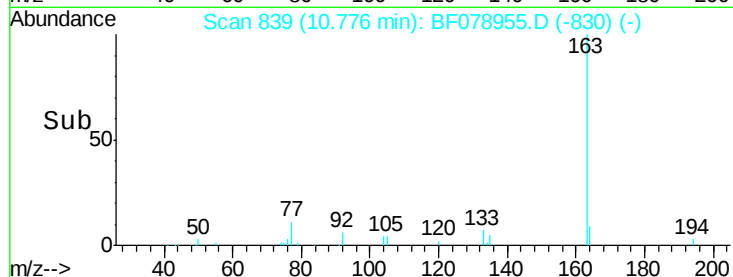
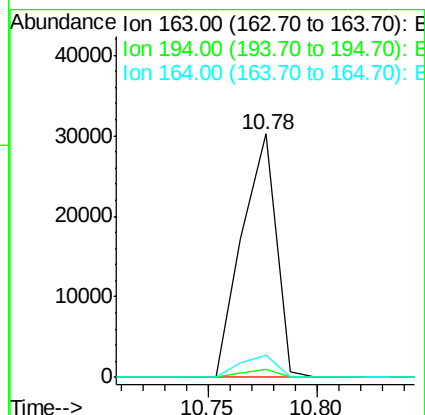
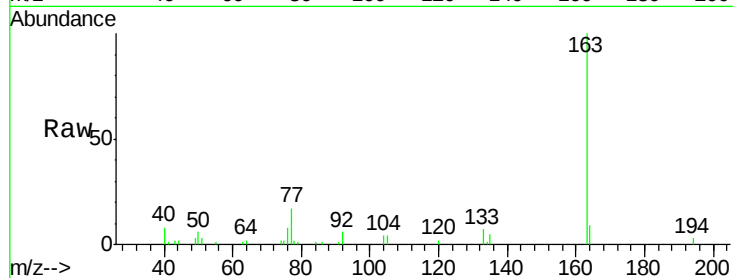
#49
Dimethylphthalate
Concen: 3.31 ng
RT: 10.78 min Scan# 839
Delta R.T. 0.00 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	33001		
194	3.5		2.6	4.0
164	9.3		8.1	12.1

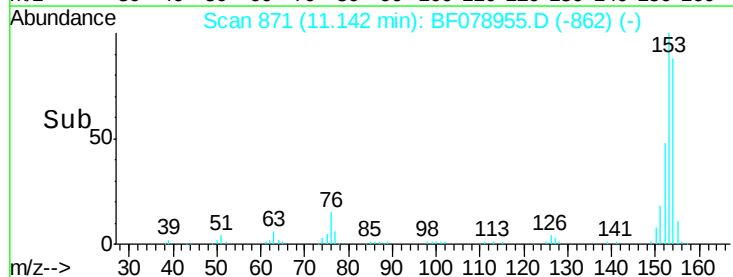
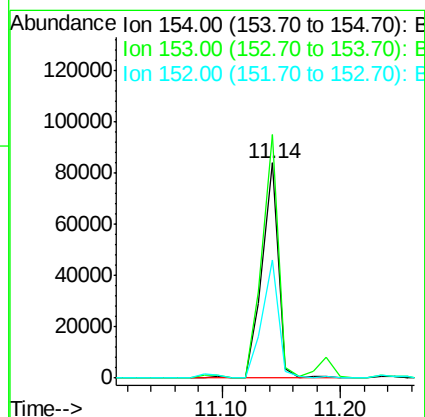
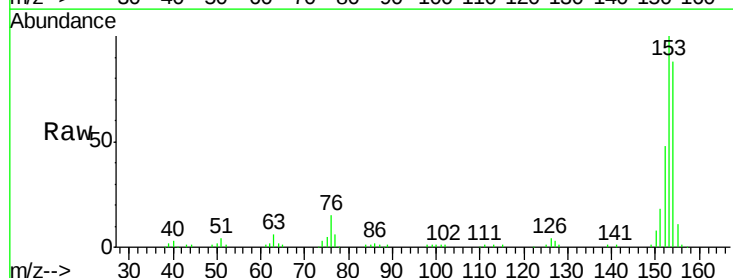
Manual Integrations
APPROVED

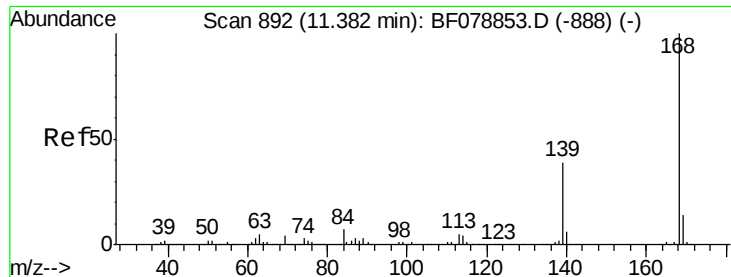
apatel
5/7/2015 1:49:33 PM



#51
Acenaphthene
Concen: 9.91 ng
RT: 11.14 min Scan# 871
Delta R.T. 0.00 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	81597		
153	113.3		91.5	137.3
152	54.8		44.2	66.4





#54

Dibenzenofuran

Concen: 11.26 ng

RT: 11.36 min Scan# 890

Delta R.T. 0.00 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Instrument :

BNA_F

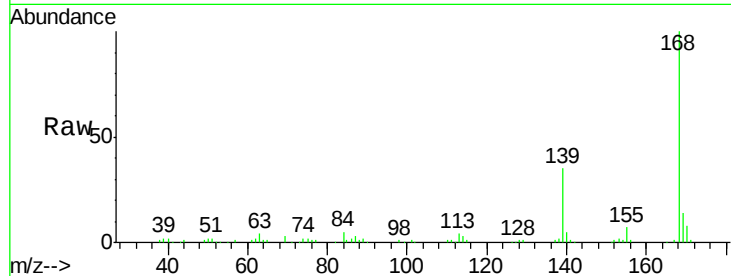
ClientSampleId :

GRID-1(6-12)

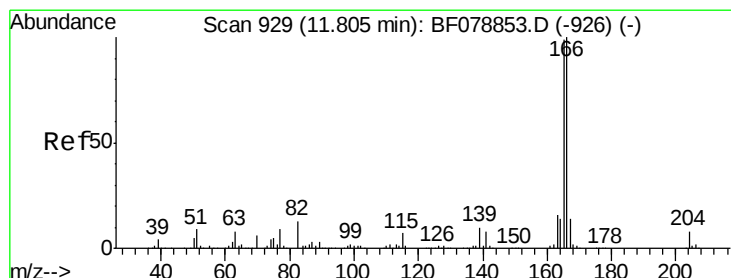
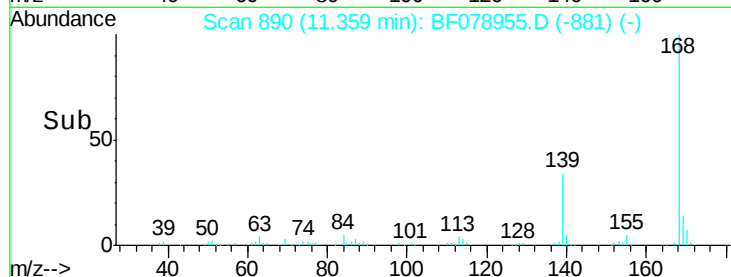
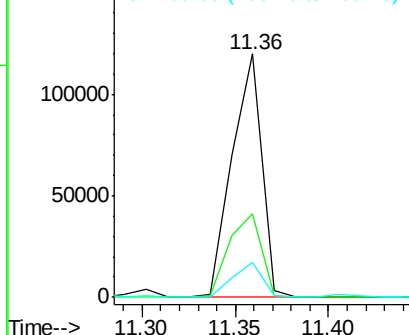
Tot Ion:	168	Resp:	133962
Ion Ratio	Lower	Upper	
168	100		
139	34.5	31.0	46.4
169	14.2	10.6	16.0

Manual Integrations
APPROVED

apatel
5/7/2015 1:49:33 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: 12.73 ng

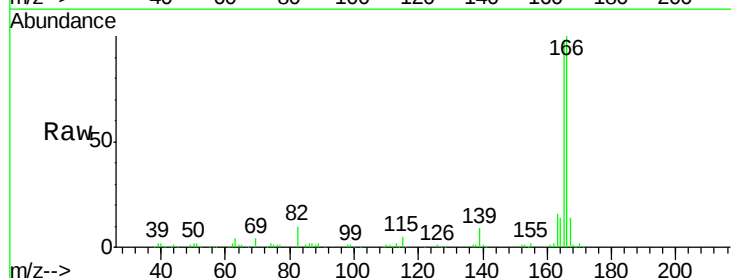
RT: 11.78 min Scan# 927

Delta R.T. 0.00 min

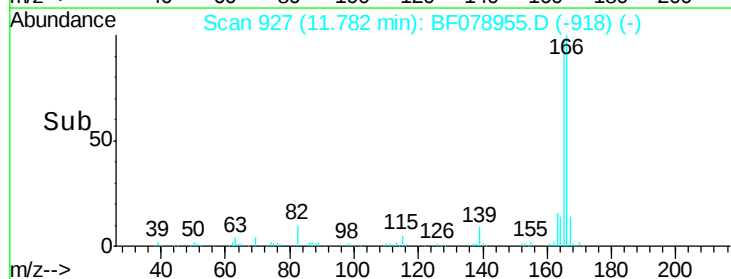
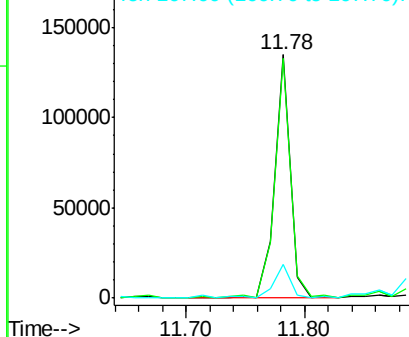
Lab File: BF078955.D

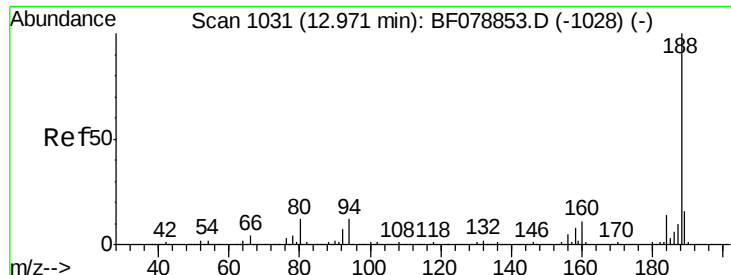
Acq: 6 May 2015 12:46

Tgt Ion:	166	Resp:	124308
Ion Ratio	Lower	Upper	
166	100		
165	98.3	78.5	117.7
167	13.8	11.0	16.6



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





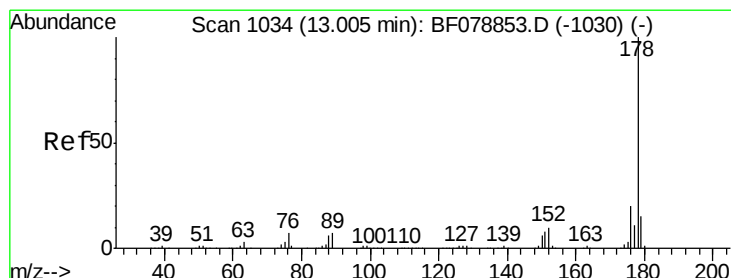
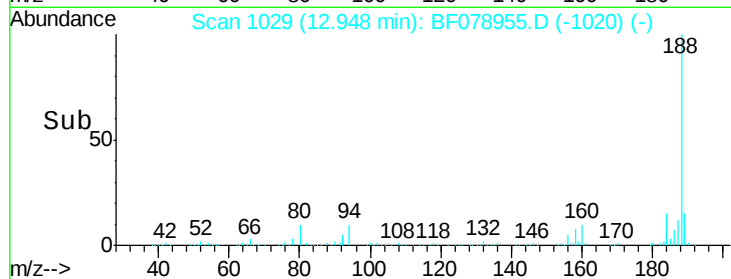
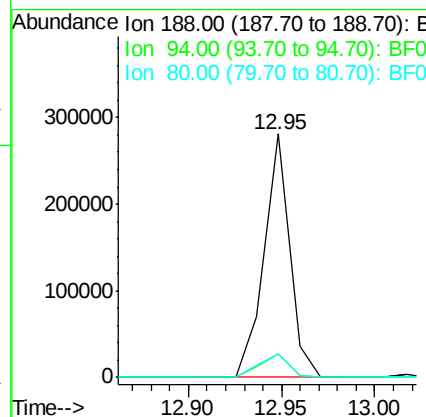
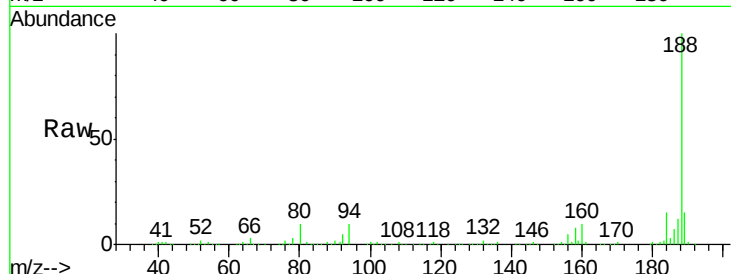
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.95 min Scan# 1029
Delta R.T. 0.00 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.6	8.2	12.2
80	9.7	8.9	13.3

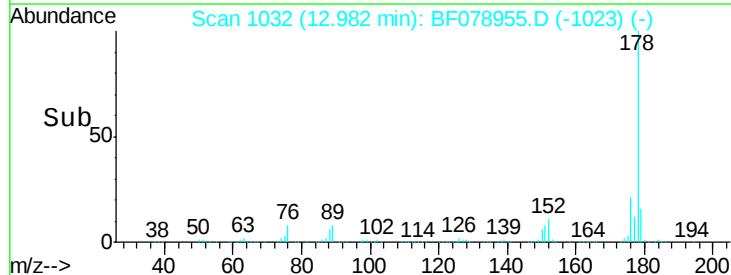
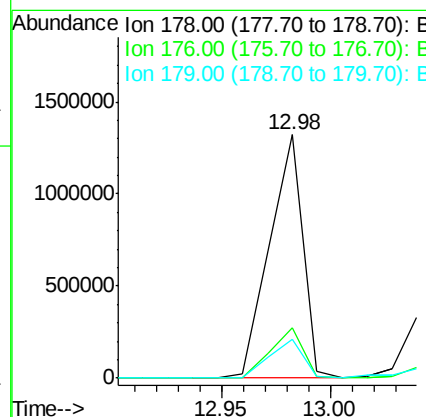
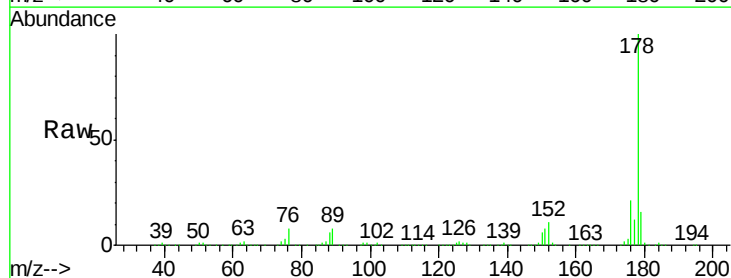
Manual Integrations
APPROVED

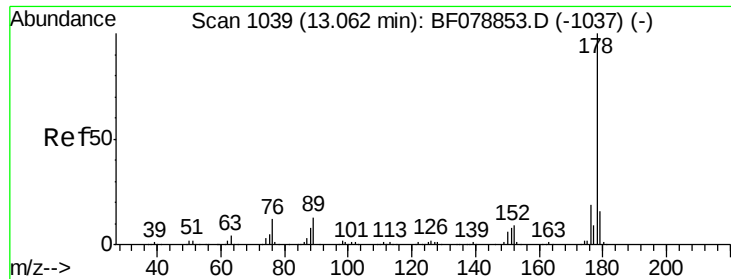
apatel
5/7/2015 1:49:33 PM



#70
Phenanthrene
Concen: 95.56 ng
RT: 12.98 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.6	15.8	23.8
179	16.1	12.5	18.7





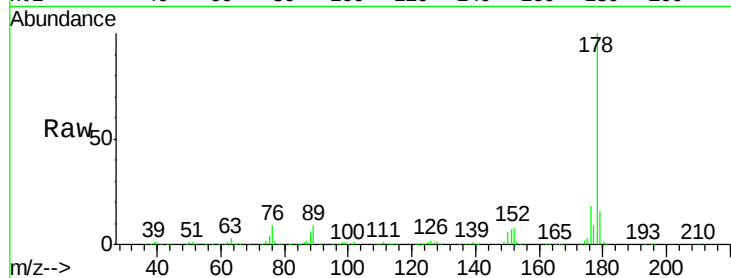
#71
 Anthracene
 Concen: 20.06 ng
 RT: 13.04 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: BF078955.D
 Acq: 6 May 2015 12:46

Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)

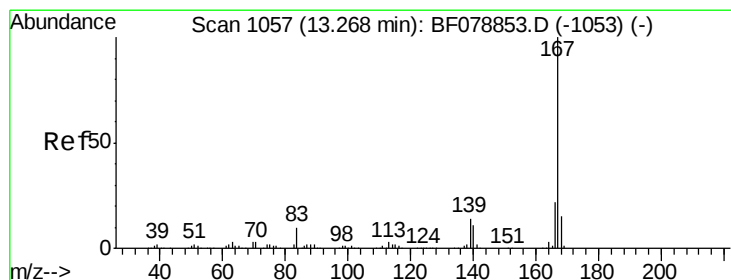
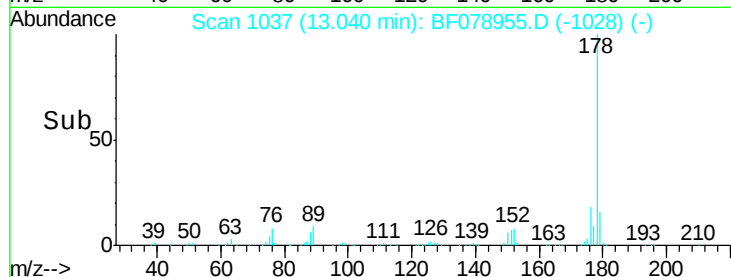
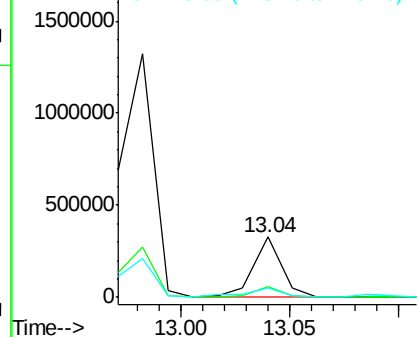
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.5	23.3
179	15.5	12.7	19.1

Manual Integrations
 APPROVED

apatel
 5/7/2015 1:49:33 PM

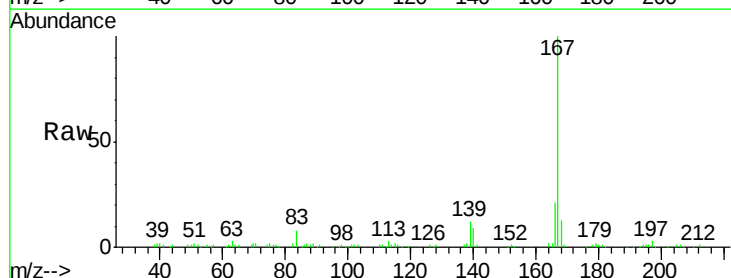


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

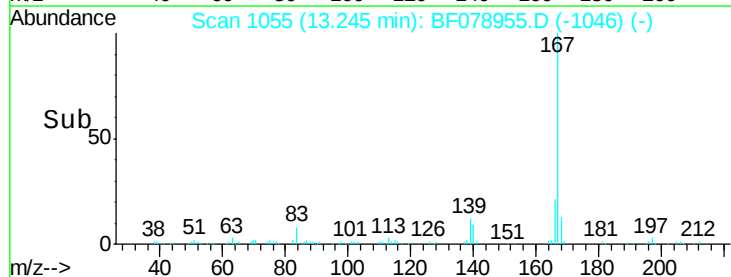
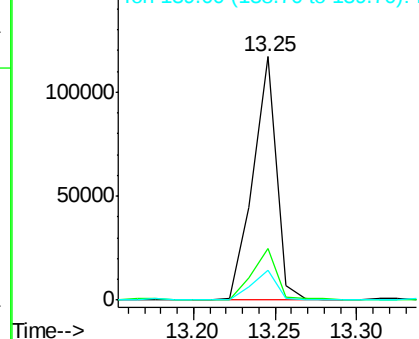


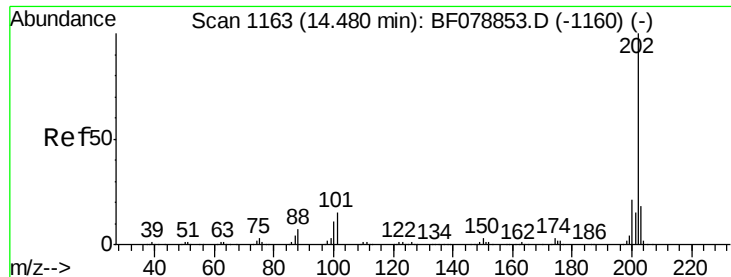
#72
 Carbazole
 Concen: 8.40 ng
 RT: 13.25 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: BF078955.D
 Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.8	26.8
139	12.5	10.6	16.0



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: 81.96 ng

RT: 14.46 min Scan# 1161

Delta R.T. 0.00 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Instrument :

BNA_F

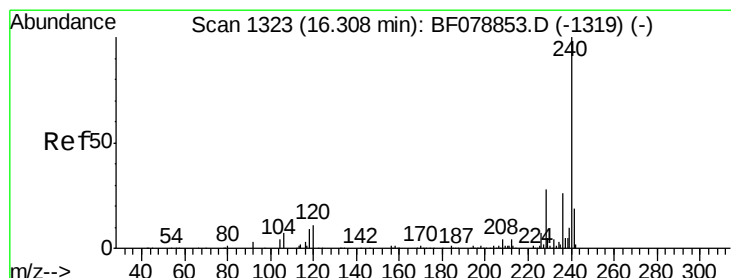
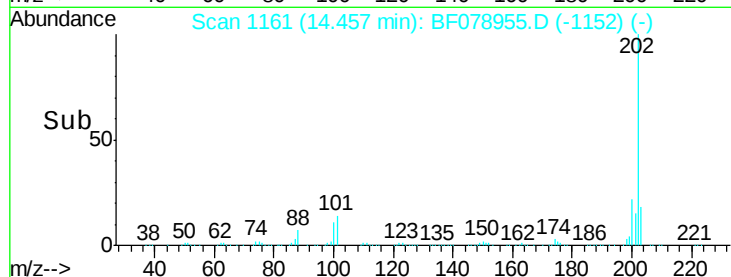
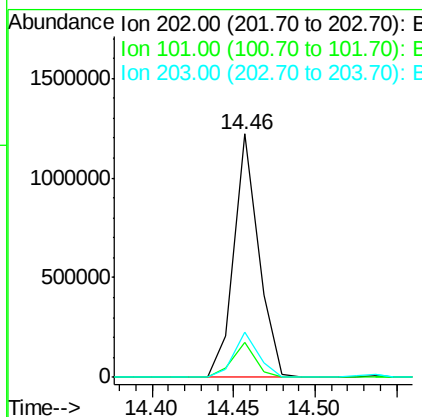
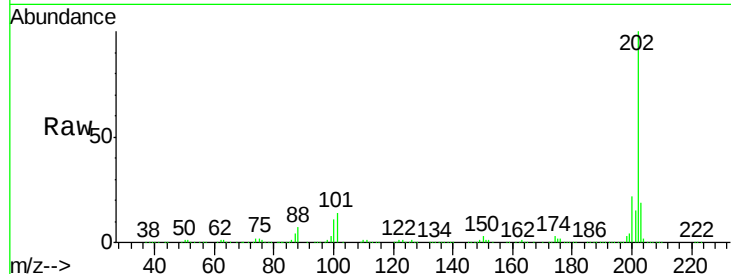
ClientSampleId :

GRID-1(6-12)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	14.4	0.0	34.6		
203	18.5	0.0	38.4		

Manual Integrations
APPROVED

apatel
5/7/2015 1:49:33 PM



#75

Chrysene-d12

Concen: 20.00 ng

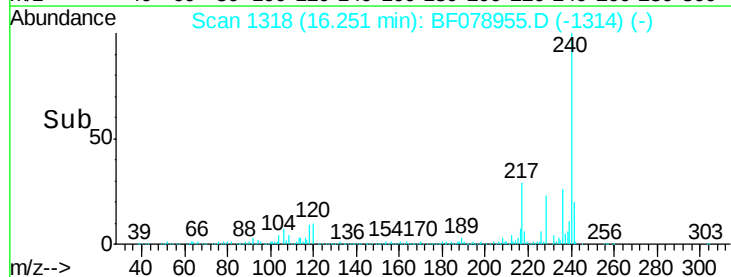
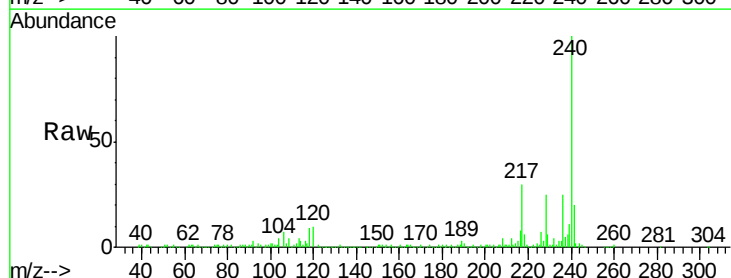
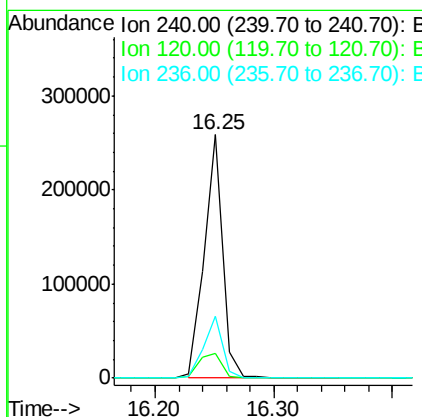
RT: 16.25 min Scan# 1318

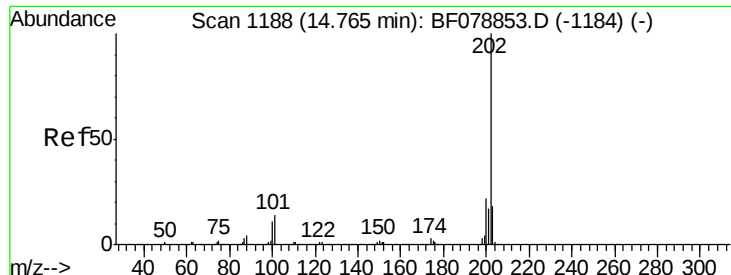
Delta R.T. -0.06 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	10.4	9.7	14.5		
236	25.5	20.2	30.4		





#77

Pvrene

Concen: 71.65 ng/mL

RT: 14.74 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Instrument :

BNA_F

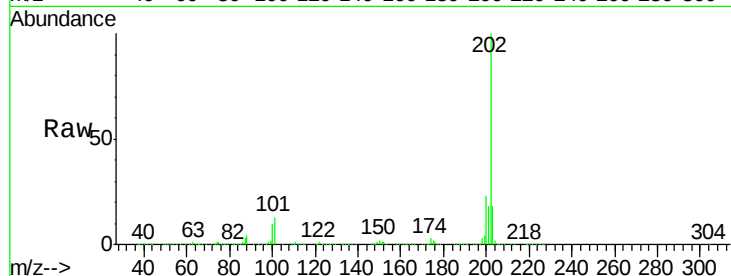
ClientSampleId :

GRID-1(6-12)

Tot Ion:	202	Resp:	1144316
Ion Ratio	Lower	Upper	
202	100		
200	22.6	17.5	26.3
203	18.3	13.9	20.9

Manual Integrations
APPROVED

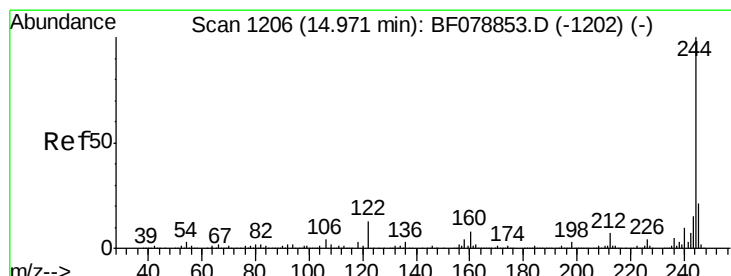
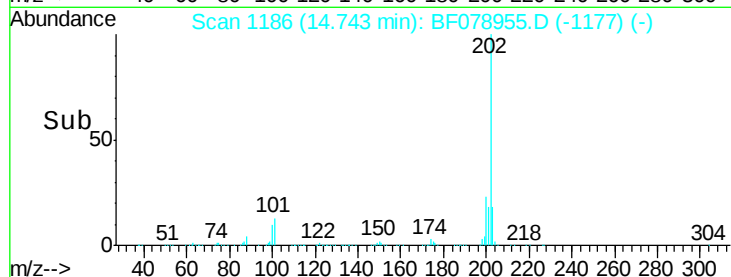
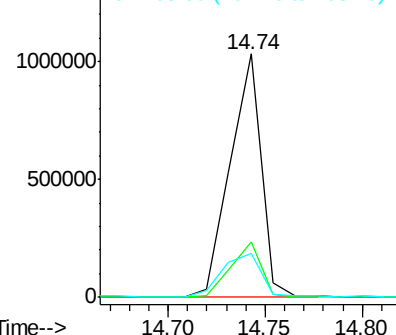
apatel
5/7/2015 1:49:33 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 56.19 ng/mL

RT: 14.95 min Scan# 1204

Delta R.T. 0.00 min

Lab File: BF078955.D

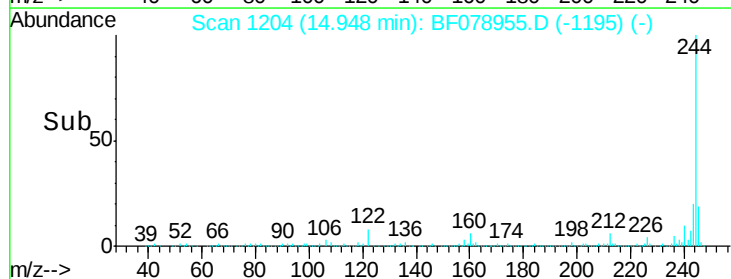
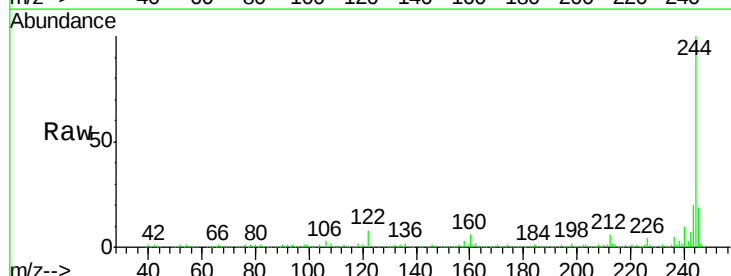
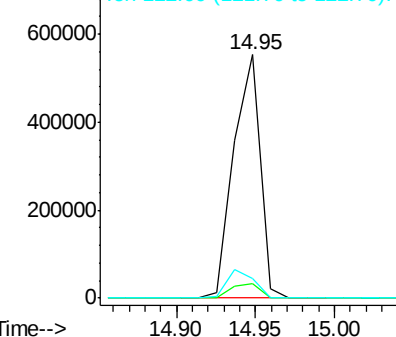
Acq: 6 May 2015 12:46

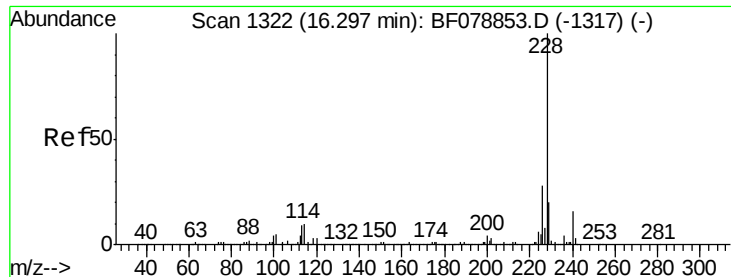
Tgt Ion:	244	Resp:	650486
Ion Ratio	Lower	Upper	
244	100		
212	6.2	5.6	8.4
122	8.3	10.3	15.5#

Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





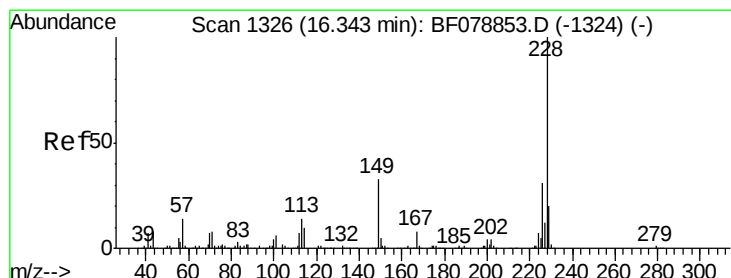
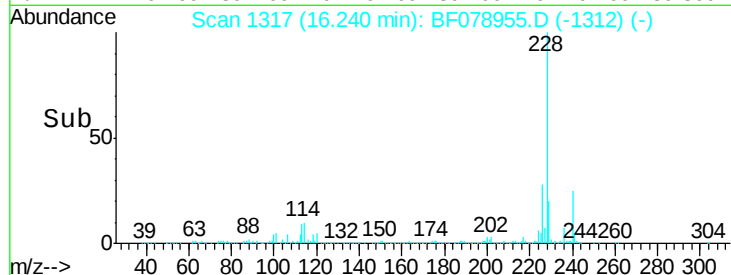
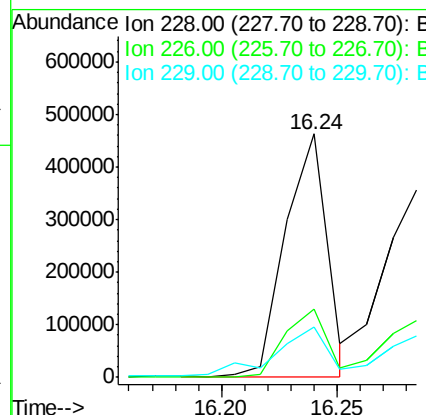
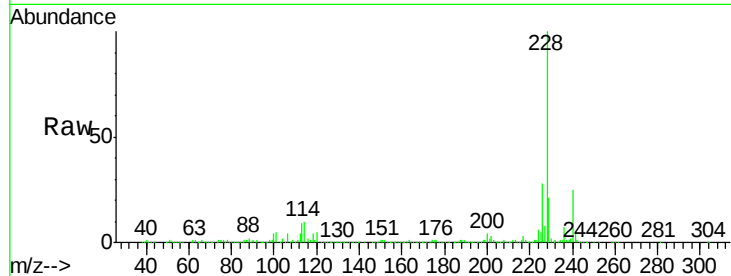
#80
Benzo(a)anthracene
Concen: 38.59 ng m
RT: 16.24 min Scan# 1317
Delta R.T. -0.05 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	20.9	15.9	23.9

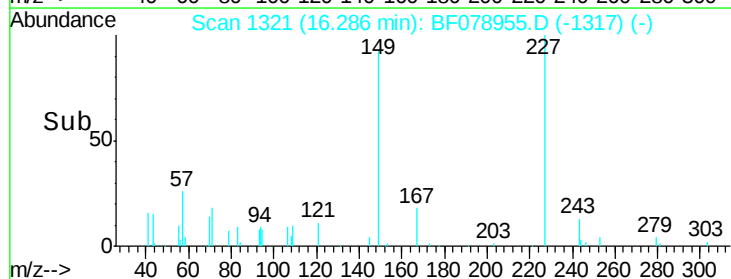
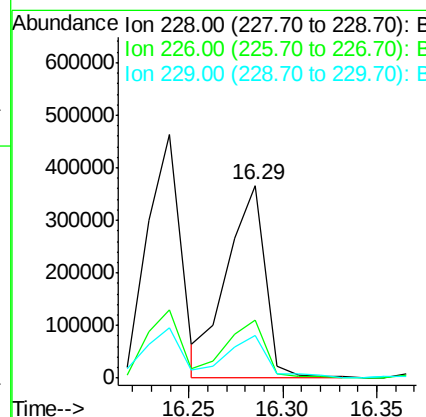
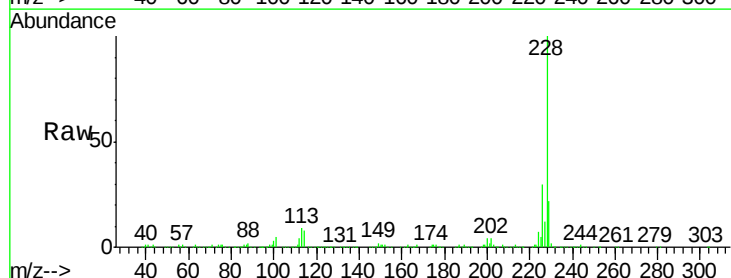
Manual Integrations
APPROVED

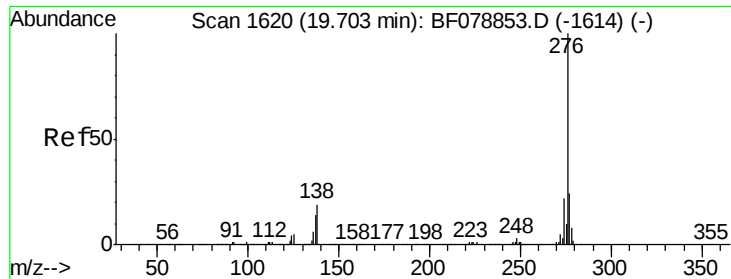
apatel
5/7/2015 1:49:33 PM



#82
Chrysene
Concen: 36.15 ng m
RT: 16.29 min Scan# 1321
Delta R.T. -0.06 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.9	37.3
229	22.1	16.0	24.0





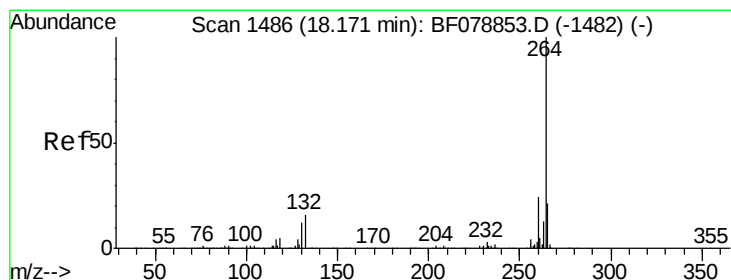
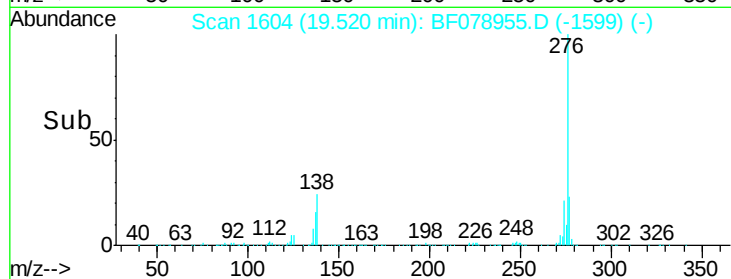
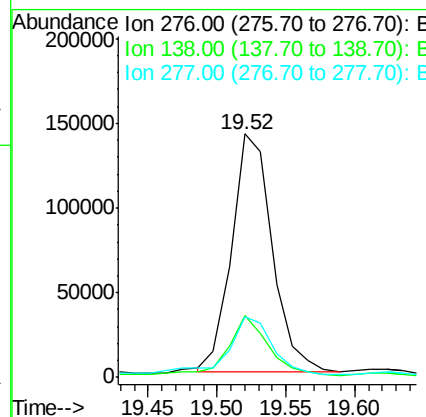
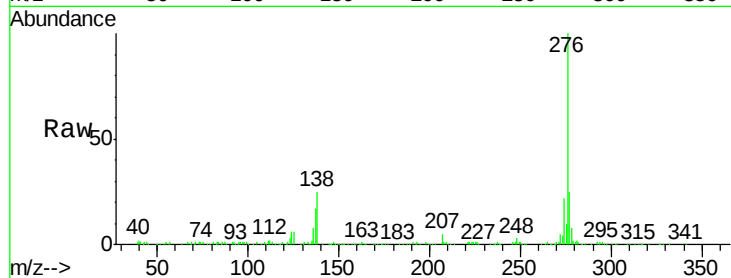
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 15.47 ng/mL
 RT: 19.52 min Scan# 1604
 Delta R.T. -0.24 min
 Lab File: BF078955.D
 Acq: 6 May 2015 12:46

Instrument :
 BNA_F
 ClientSampleId :
 GRID-1(6-12)

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	3.1	0.0	0.0#
277	2.5	0.0	0.0#

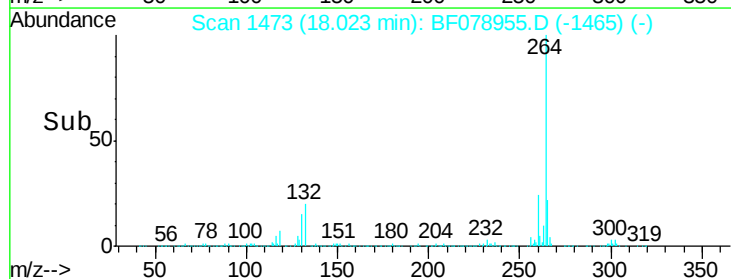
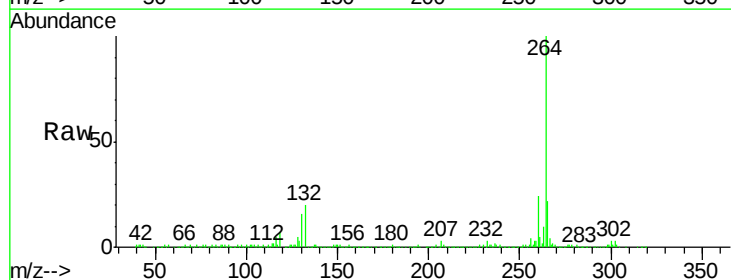
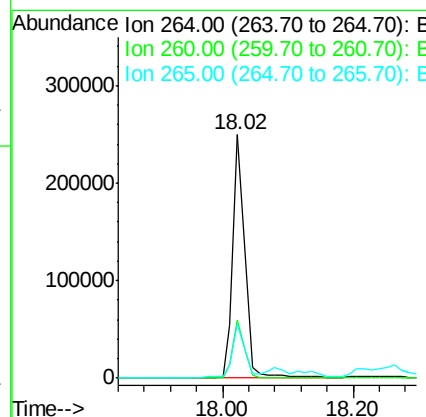
Manual Integrations
 APPROVED

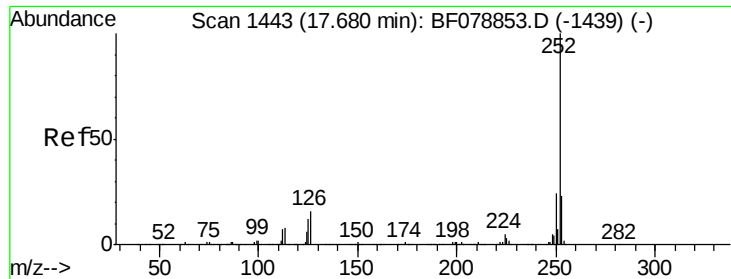
apatel
 5/7/2015 1:49:33 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 18.02 min Scan# 1473
 Delta R.T. -0.21 min
 Lab File: BF078955.D
 Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.9	19.4	29.2
265	22.4	18.3	27.5





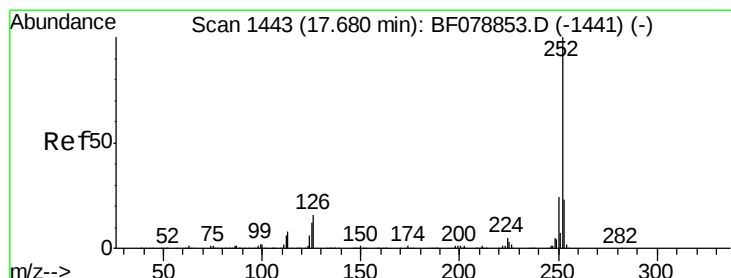
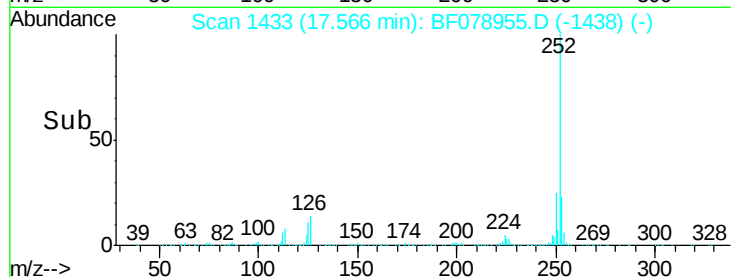
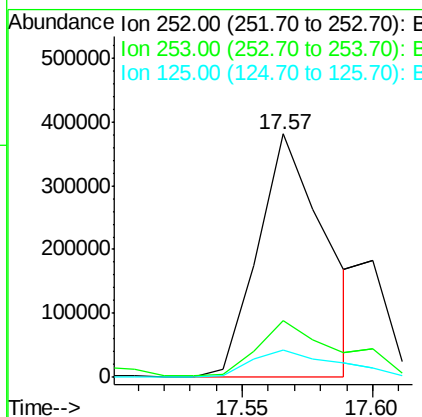
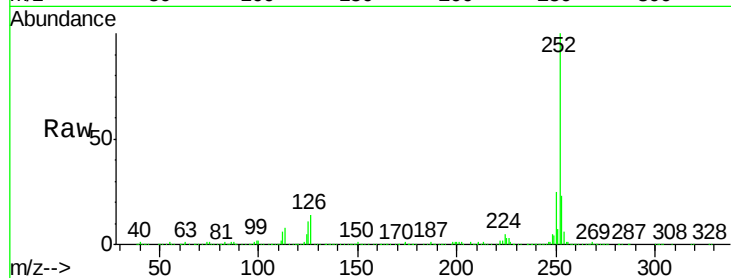
#87
Benzo(b)fluoranthene
Concen: 38.62 ng m
RT: 17.57 min Scan# 1433
Delta R.T. -0.16 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.7	26.5
125	11.4	9.5	14.3

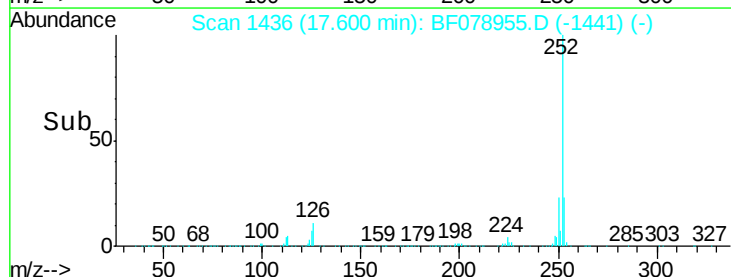
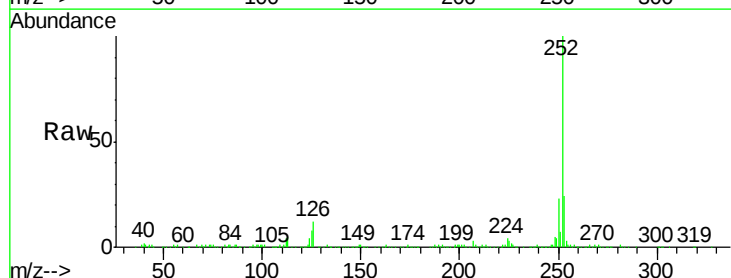
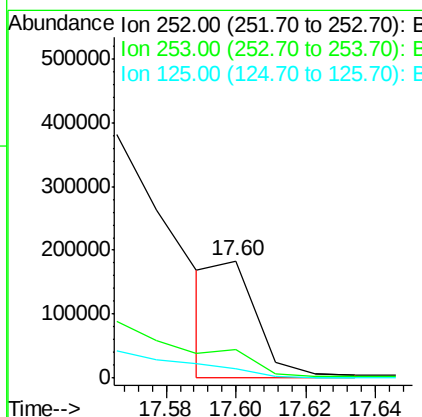
Manual Integrations
APPROVED

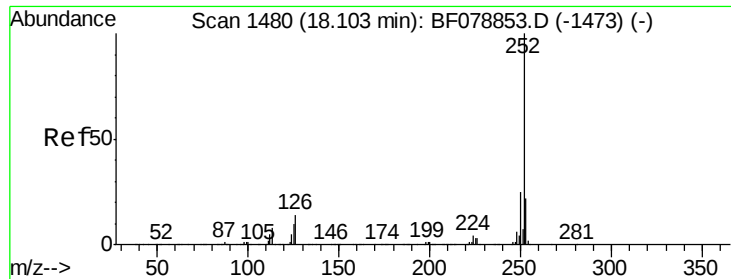
apatel
5/7/2015 1:49:33 PM



#88
Benzo(k)fluoranthene
Concen: 8.71 ng m
RT: 17.60 min Scan# 1436
Delta R.T. -0.16 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	7.9	10.0	15.0#





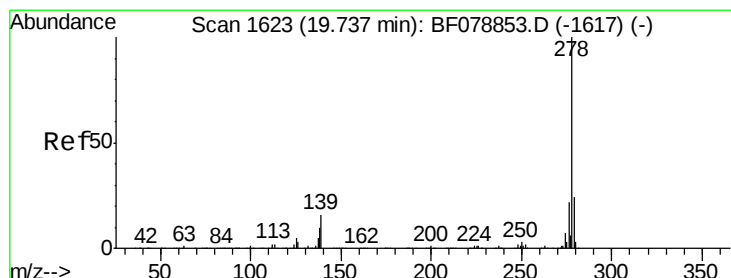
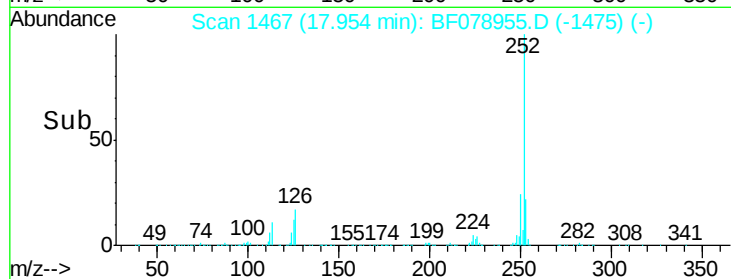
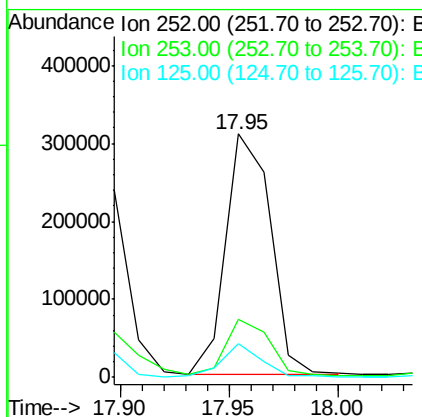
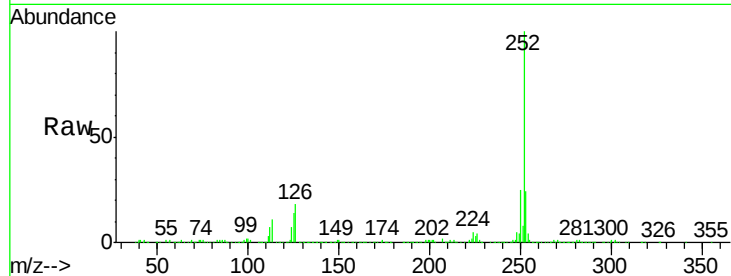
#89
Benzo(a)pyrene
Concen: 26.92 ng
RT: 17.95 min Scan# 1467
Delta R.T. -0.19 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Instrument :
BNA_F
ClientSampleId :
GRID-1(6-12)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.3	25.9
125	13.9	7.0	10.6

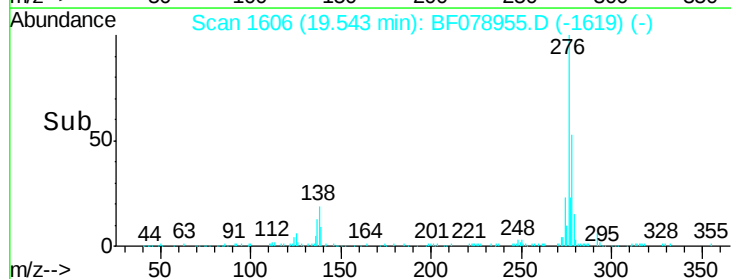
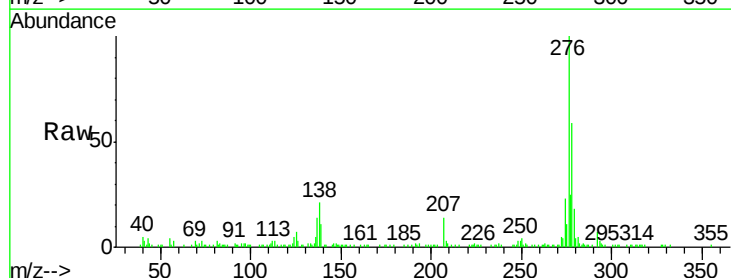
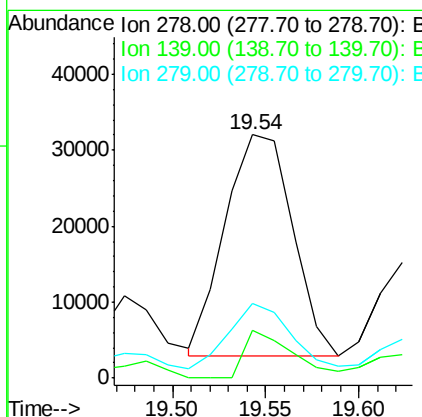
Manual Integrations
APPROVED

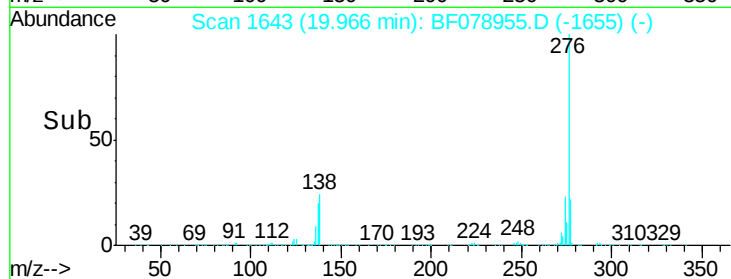
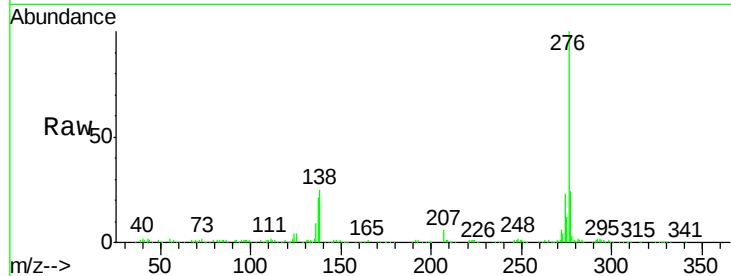
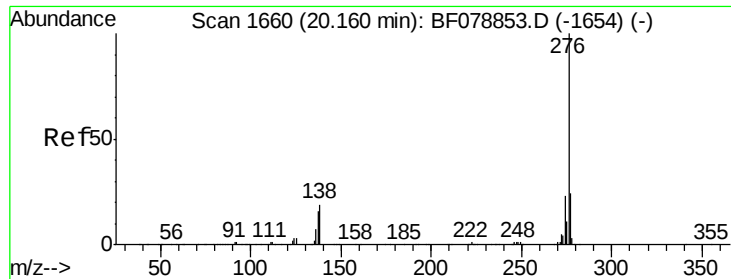
apatel
5/7/2015 1:49:33 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.23 ng
RT: 19.54 min Scan# 1606
Delta R.T. -0.25 min
Lab File: BF078955.D
Acq: 6 May 2015 12:46

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.4	12.8	19.2
279	30.5	19.6	29.4





#91

Benzo(a,h,i)perylene

Concen: 16.08 ng

RT: 19.97 min Scan# 1643

Delta R.T. -0.24 min

Lab File: BF078955.D

Acq: 6 May 2015 12:46

Tot Ion:	276	Resp:	279811
Ion Ratio	Lower	Upper	
276	100		
277	23.6	18.6	28.0
138	24.7	17.4	26.0

Instrument :

BNA_F

ClientSampleId :

GRID-1(6-12)

Manual Integrations
APPROVED

apatel
5/7/2015 1:49:33 PM

