

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030217\
 Data File : BF093342.D
 Acq On : 3 Mar 2017 1:07
 Operator : SJ/MA
 Sample : I2003-01
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421A

Manual Integrations
 APPROVED

mohammad
 3/3/2017 5:16:53 PM

Quant Time: Mar 03 07:12:31 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 03 00:22:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	143347	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	274931	20.00	ng	0.02
38) Acenaphthene-d10	9.92	164	61586	20.00	ng	0.06
63) Phenanthrene-d10	11.40	188	119123	20.00	ng	0.06
75) Chrysene-d12	14.00	240	220224	20.00	ng	0.01
86) Perylene-d12	15.43	264	236763	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.38	112	640580	76.67	ng	-0.01
7) Phenol-d6	6.44	99	761361	70.82	ng	-0.01
23) Nitrobenzene-d5	7.37	82	502782	101.84	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	35835	80.45	ng	0.07
44) 2-Fluorobiphenyl	9.22	172	245562	72.24	ng	0.05
78) Terphenyl-d14	12.96	244	304869	32.53	ng	0.03

Target Compounds

						Qvalue
13) 1,4-Dichlorobenzene	6.82	146	41629	3.81	ng	# 59
14) 1,2-Dichlorobenzene	6.97	146	135686	12.99	ng	# 65
31) Naphthalene	8.13	128	520164	37.32	ng	# 74
37) 2-Methylnaphthalene	8.86	142	442629	49.46	ng	# 85
51) Acenaphthene	9.95	154	376686	104.54	ng	# 90
57) Fluorene	10.46	166	367338	99.08	ng	# 78
70) Phenanthrene	11.43	178	837658	122.74	ng	# 92
74) Fluoranthene	12.61	202	2246481	319.12	ng	96
77) Pyrene	12.84	202	2723764m	165.27	ng	
80) Benzo(a)anthracene	13.99	228	1139162m	84.58	ng	
82) Chrysene	14.02	228	664835m	52.72	ng	
83) Bis(2-ethylhexyl)phthalate	13.96	149	114991	12.56	ng	# 92
85) Indeno(1,2,3-cd)pyrene	16.84	276	192338	19.69	ng	# 93
87) Benzo(b)fluoranthene	15.03	252	799176m	51.28	ng	
88) Benzo(k)fluoranthene	15.04	252	199870m	14.85	ng	
89) Benzo(a)pyrene	15.37	252	424070	31.46	ng	# 87
90) Dibenzo(a,h)anthracene	16.84	278	49232m	4.52	ng	
91) Benzo(g,h,i)perylene	17.28	276	174783	15.88	ng	# 82

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

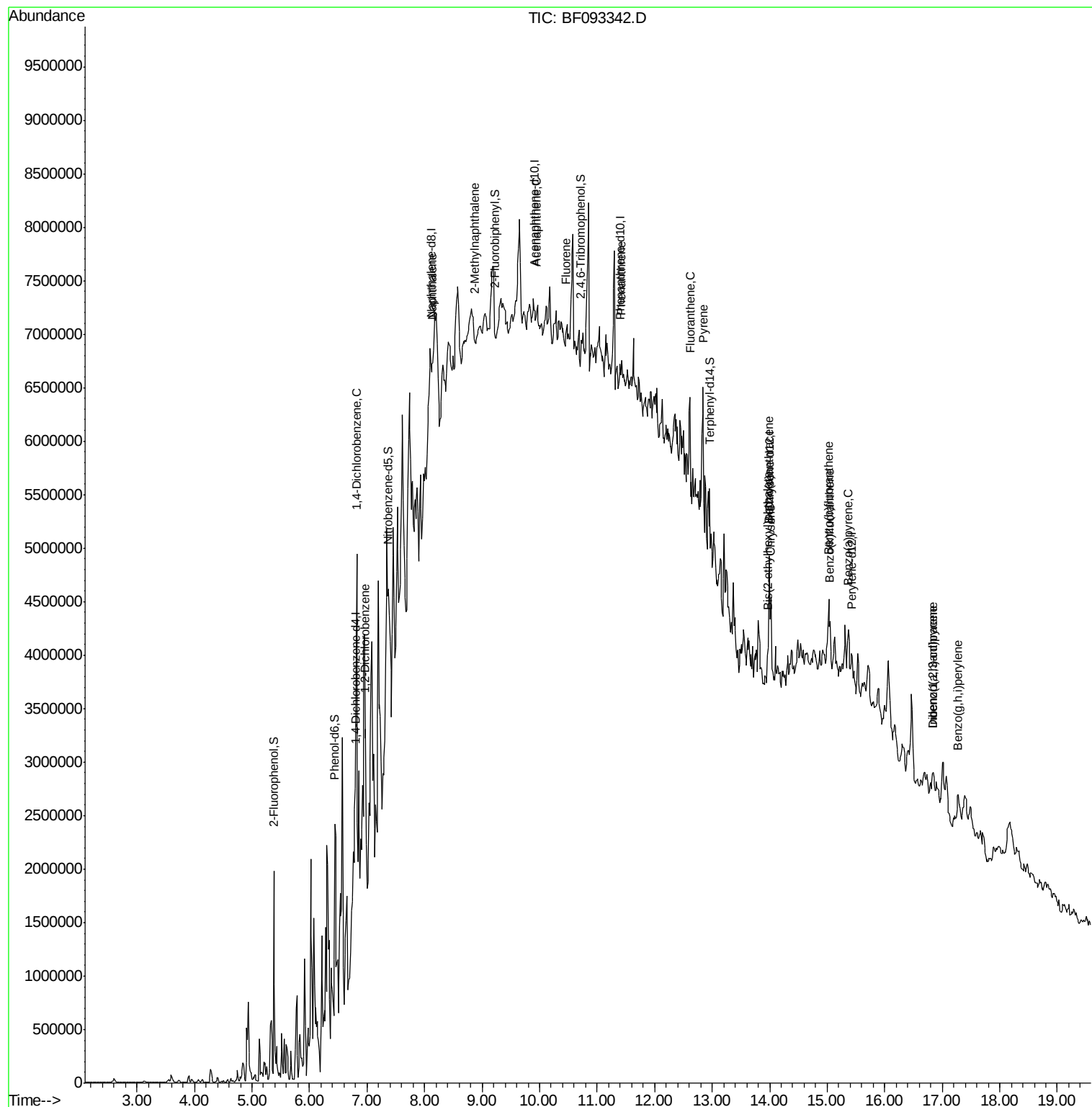
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030217\
Data File : BF093342.D
Acq On : 3 Mar 2017 1:07
Operator : SJ/MA
Sample : I2003-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

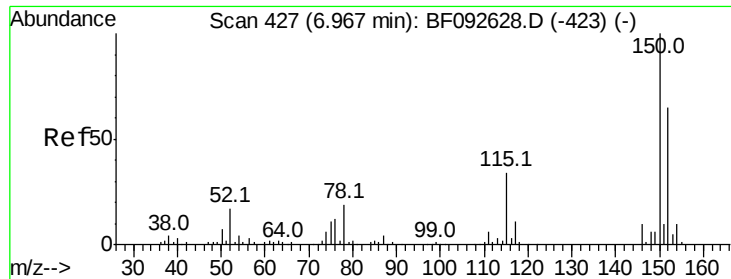
Instrument :
BNA_F
ClientSampleId :
HY-SB421A

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM

Quant Time: Mar 03 07:12:31 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 03 00:22:20 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 412

Delta R.T. -0.00 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

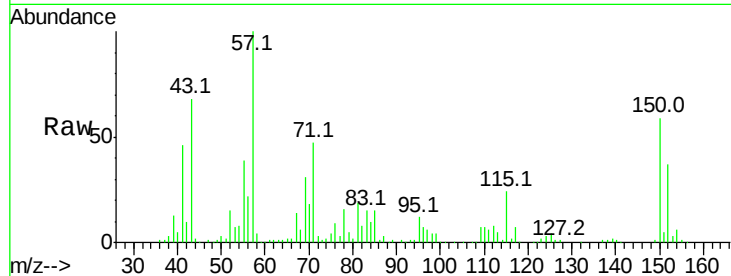
ClientSampled :

HY-SB421A

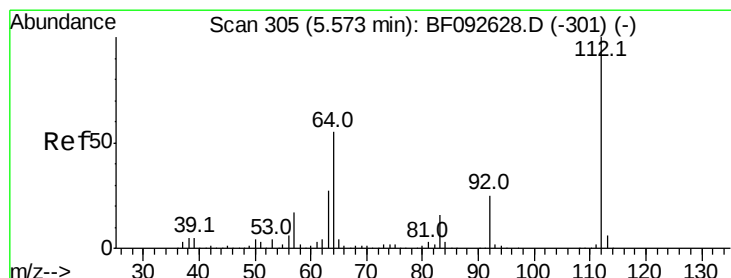
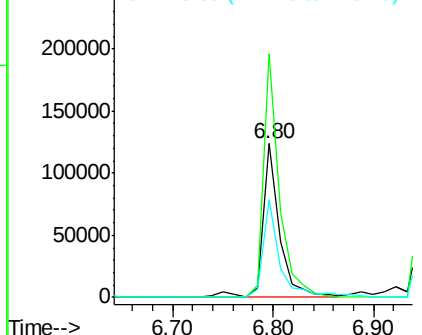
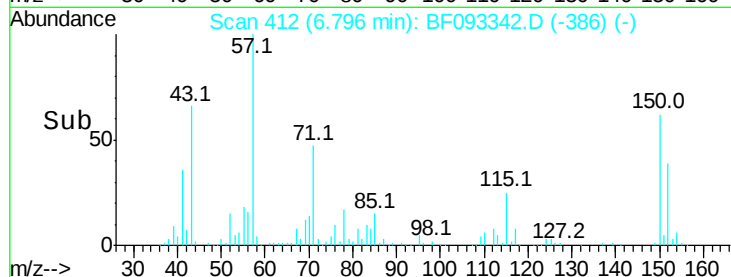
Tot Ion:	152	Resp:	143347
Ion Ratio	Lower	Upper	
152	100		
150	158.3	124.9	187.3
115	63.5	46.0	69.0

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 76.67 ng

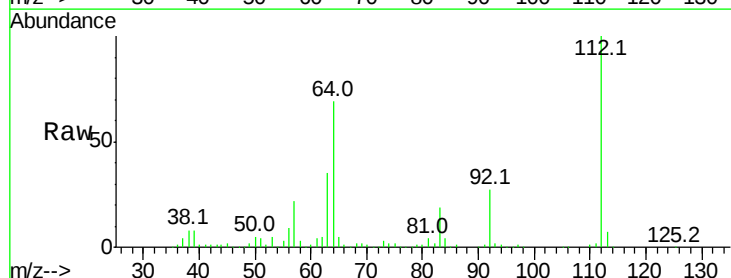
RT: 5.38 min Scan# 288

Delta R.T. -0.01 min

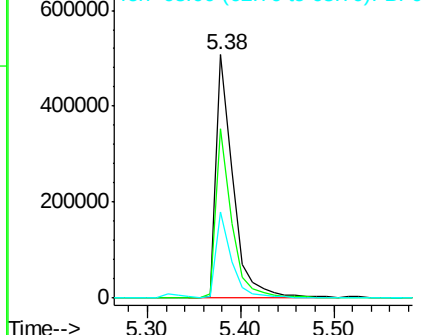
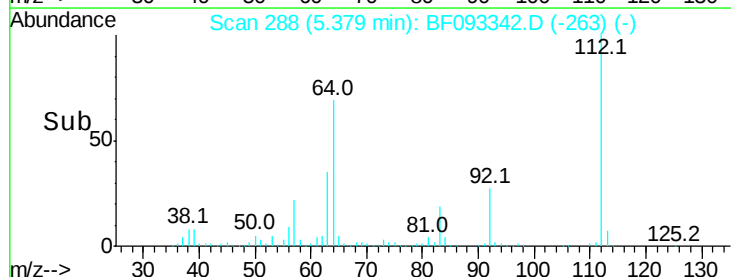
Lab File: BF093342.D

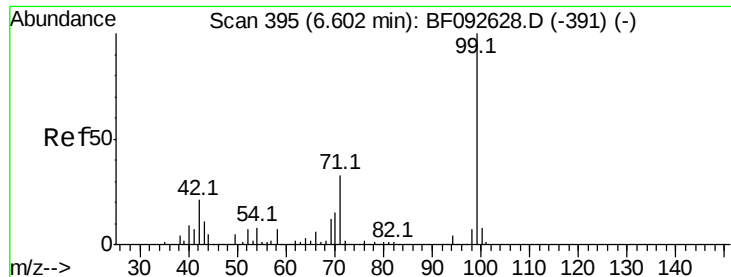
Acq: 3 Mar 2017 1:07

Tgt Ion:	112	Resp:	640580
Ion Ratio	Lower	Upper	
112	100		
64	69.4	46.1	69.1#
63	35.4	23.8	35.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 70.82 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.01 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

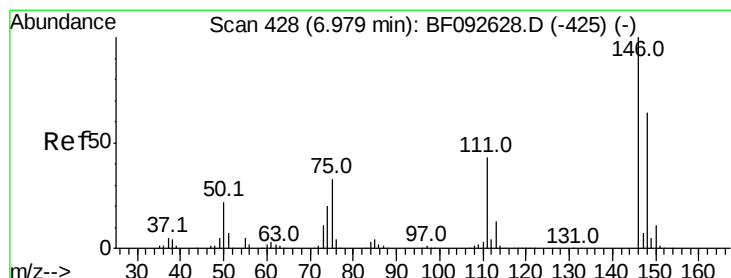
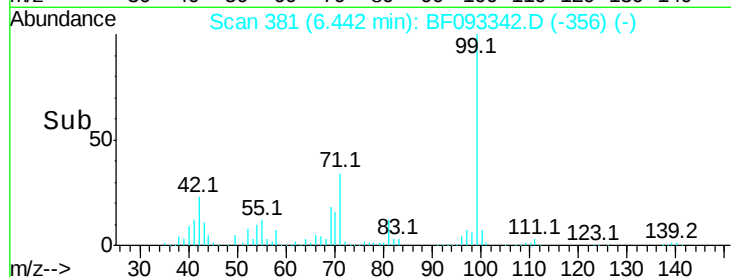
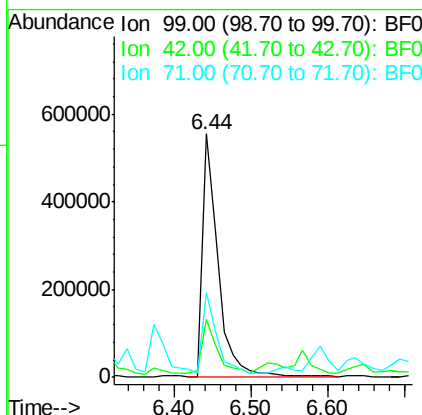
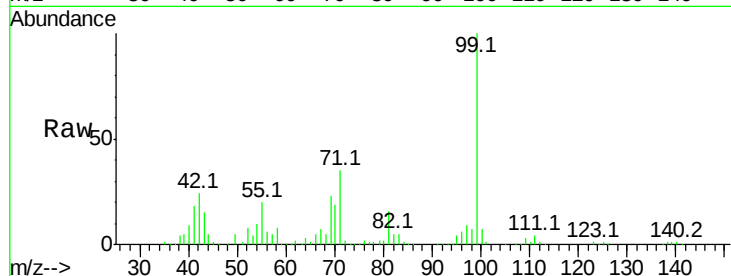
ClientSampleId :

HY-SB421A

Tot Ion:	99	Resp:	761361
Ion Ratio	Lower	Upper	
99	100		
42	23.7	15.6	23.4#
71	34.8	27.5	41.3

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



#13

1,4-Dichlorobenzene

Concen: 3.81 ng

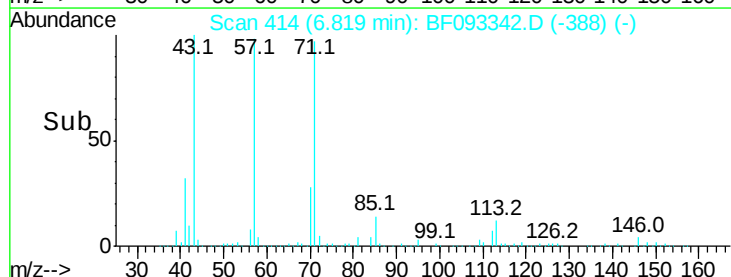
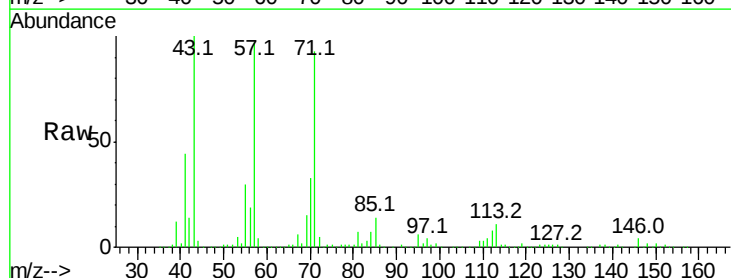
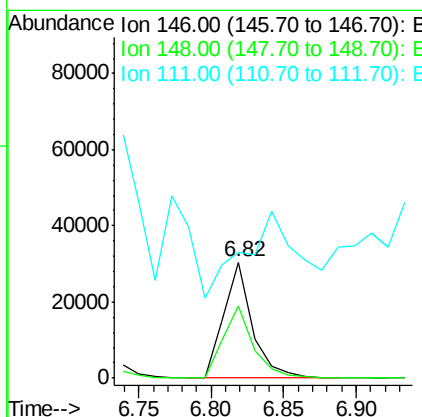
RT: 6.82 min Scan# 414

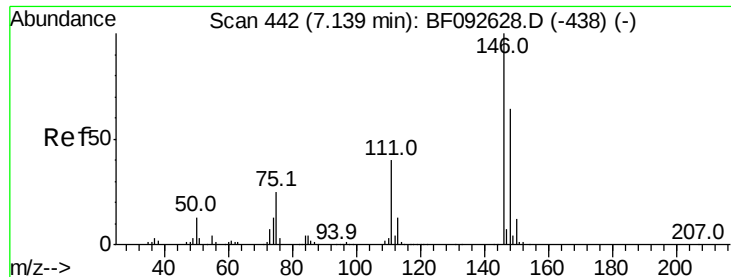
Delta R.T. -0.00 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Tgt Ion:	146	Resp:	41629
Ion Ratio	Lower	Upper	
146	100		
148	62.2	50.6	76.0
111	108.1	36.2	54.4#





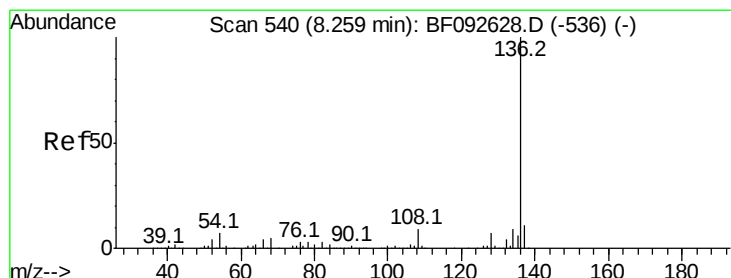
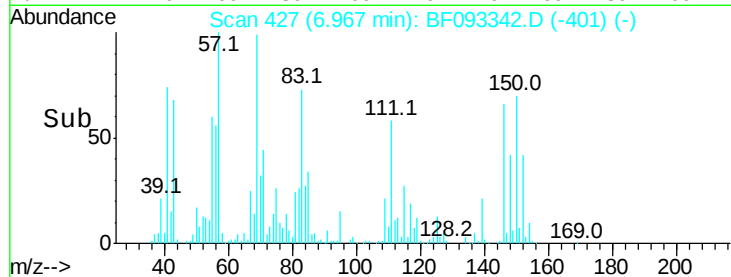
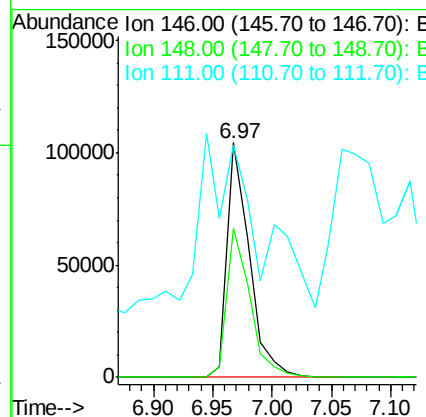
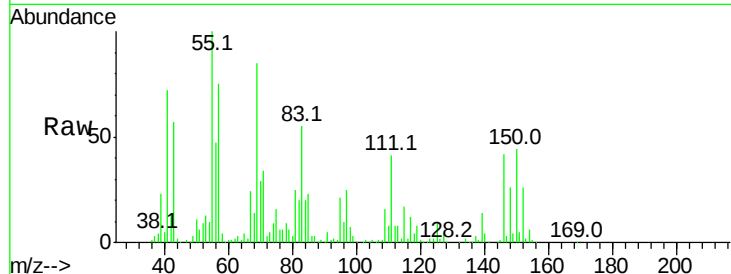
#14
 1,2-Dichlorobenzene
 Concen: 12.99 ng
 RT: 6.97 min Scan# 427
 Delta R.T. -0.00 min
 Lab File: BF093342.D
 Acq: 3 Mar 2017 1:07

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421A

Tot Ion	Ratio	Lower	Upper
146	100		
148	63.6	52.2	78.2
111	99.2	36.2	54.2

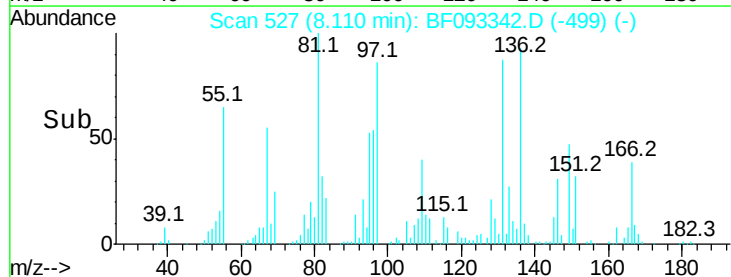
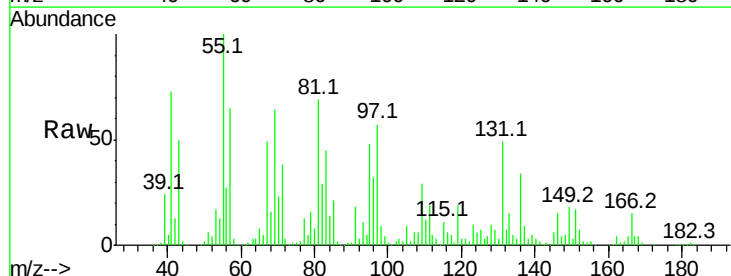
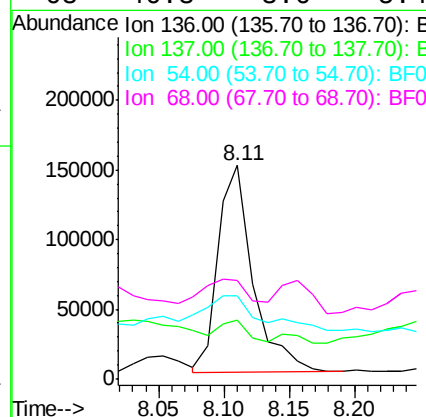
Manual Integrations
 APPROVED

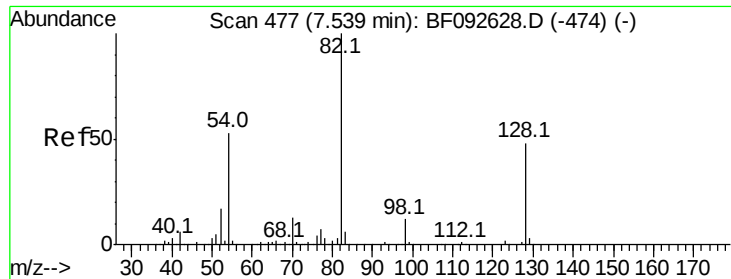
mohammad
 3/3/2017 5:16:53 PM



#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 8.11 min Scan# 527
 Delta R.T. 0.02 min
 Lab File: BF093342.D
 Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Lower	Upper
136	100		
137	27.6	8.4	12.6
54	38.7	4.5	6.7
68	46.3	3.6	5.4





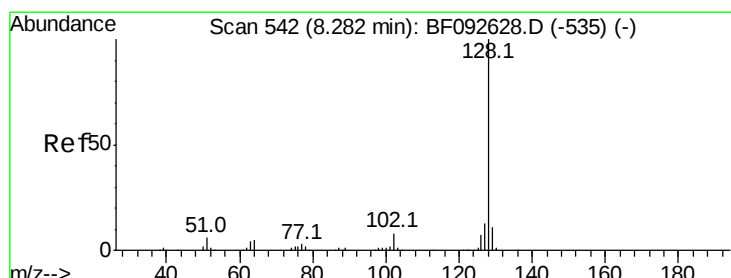
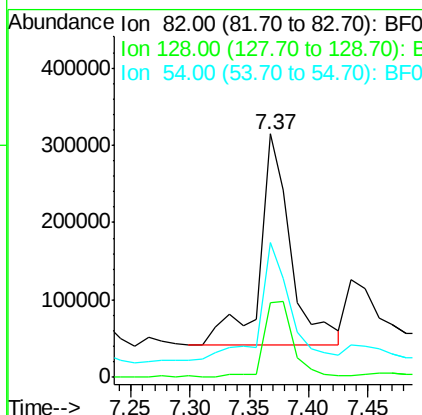
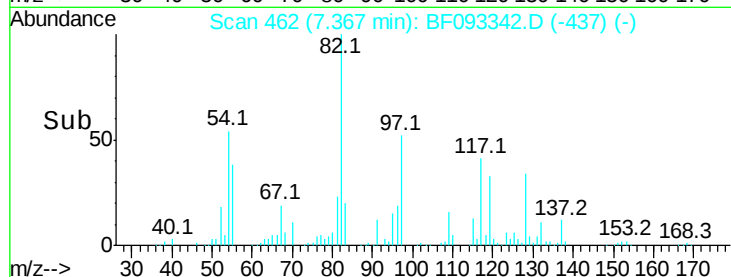
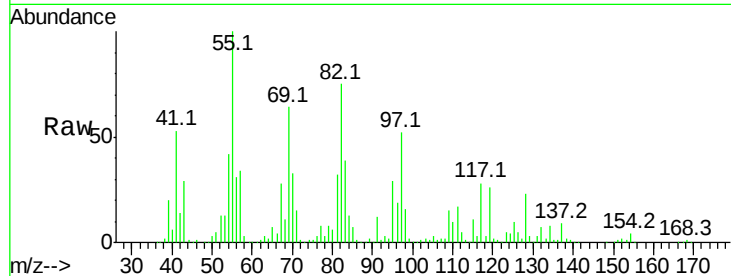
#23
Nitrobenzene-d5
Concen: 101.84 ng
RT: 7.37 min Scan# 462
Delta R.T. -0.01 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Instrument :
BNA_F
ClientSampleId :
HY-SB421A

Tot Ion	Ratio	Lower	Upper
82	100		
128	30.7	34.6	52.0#
54	55.2	39.5	59.3

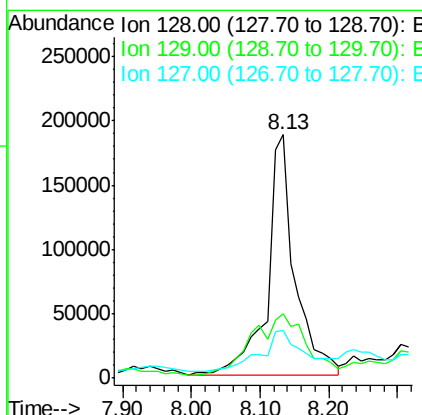
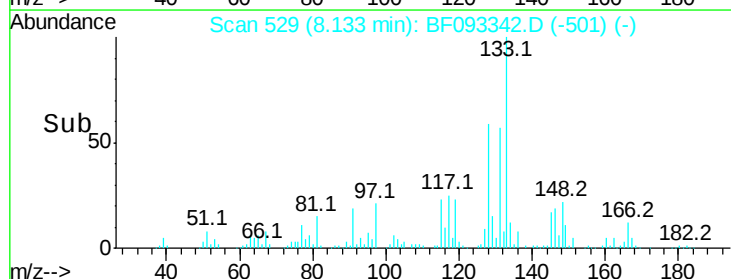
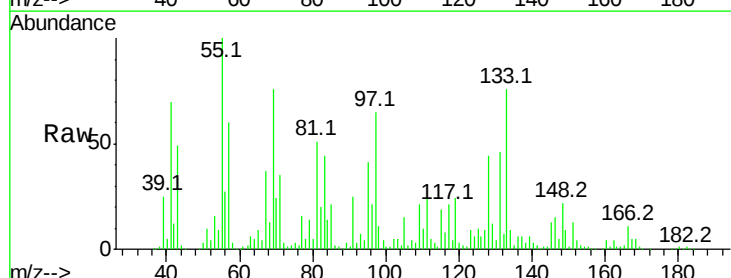
Manual Integrations
APPROVED

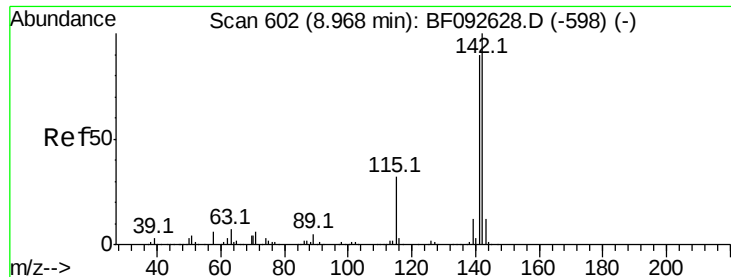
mohammad
3/3/2017 5:16:53 PM



#31
Naphthalene
Concen: 37.32 ng
RT: 8.13 min Scan# 529
Delta R.T. 0.02 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Lower	Upper
128	100		
129	26.3	9.5	14.3#
127	19.8	10.8	16.2#





#37

2-Methylnaphthalene

Concen: 49.46 ng

RT: 8.86 min Scan# 593

Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

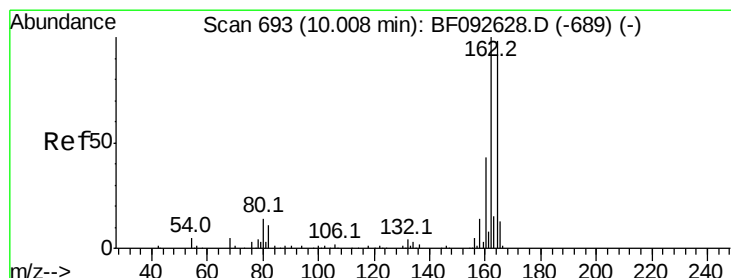
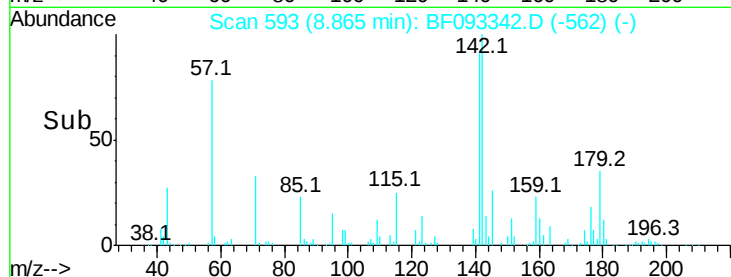
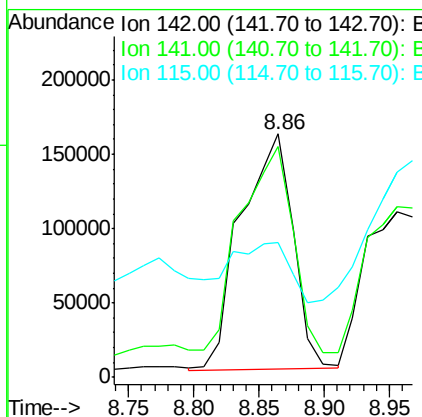
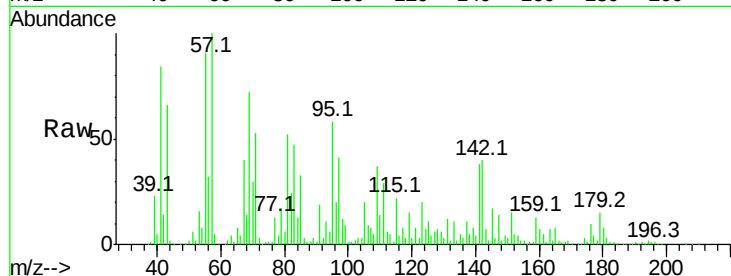
ClientSampleId :

HY-SB421A

Tot Ion:	142	Resp:	442629
Ion Ratio	Lower	Upper	
142	100		
141	95.0	71.0	106.6
115	55.4	28.3	42.5#

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



#38

Acenaphthene-d10

Concen: 20.00 ng

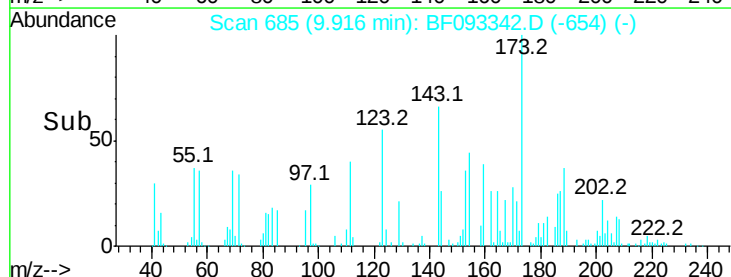
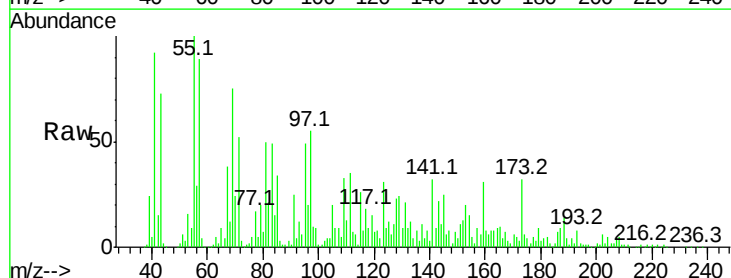
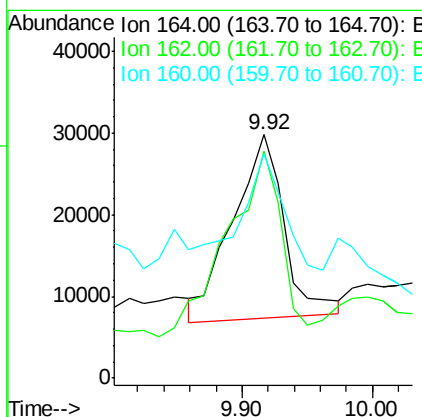
RT: 9.92 min Scan# 685

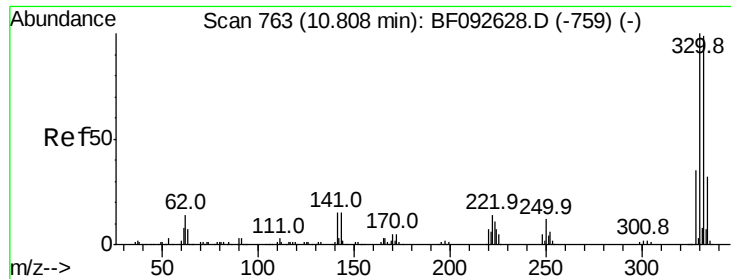
Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Tgt Ion:	164	Resp:	61586
Ion Ratio	Lower	Upper	
164	100		
162	93.0	80.2	120.2
160	92.3	36.9	55.3#





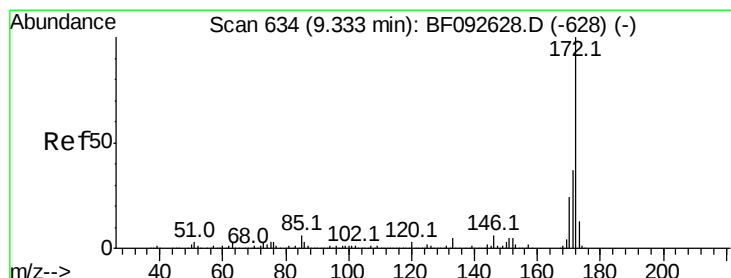
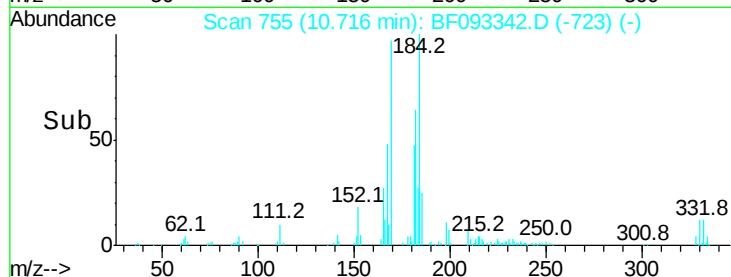
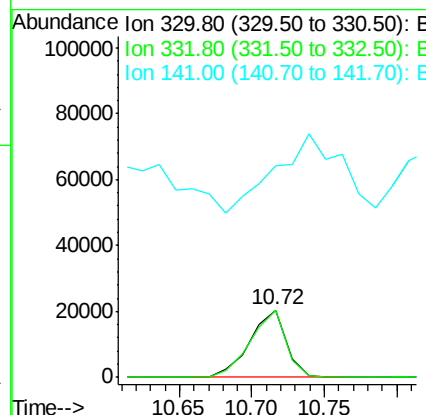
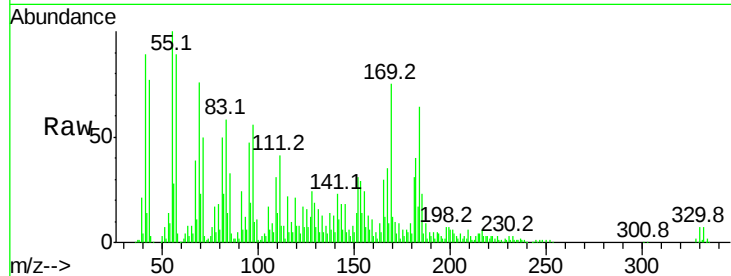
#41
 2,4,6-Tribromophenol
 Concen: 80.45 ng
 RT: 10.72 min Scan# 755
 Delta R.T. 0.07 min
 Lab File: BF093342.D
 Acq: 3 Mar 2017 1:07

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421A

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.2	77.4	116.2	
141	0.0	34.1	51.1#	

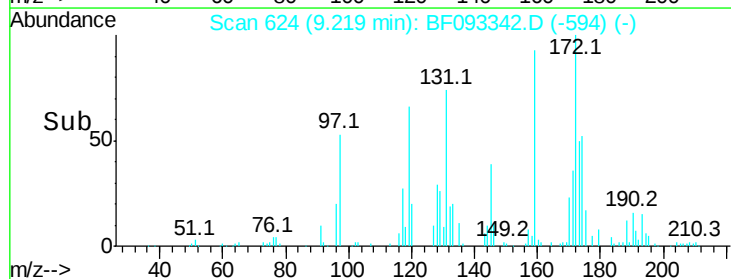
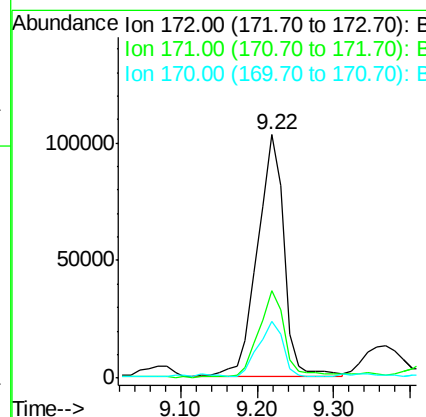
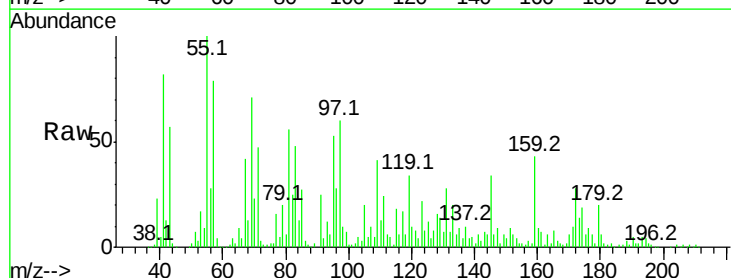
Manual Integrations
 APPROVED

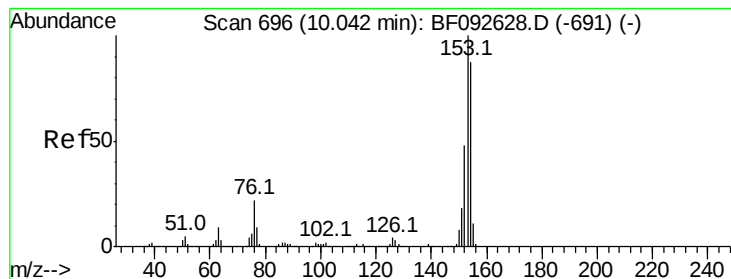
mohammad
 3/3/2017 5:16:53 PM



#44
 2-Fluorobiphenyl
 Concen: 72.24 ng
 RT: 9.22 min Scan# 624
 Delta R.T. 0.05 min
 Lab File: BF093342.D
 Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.7	29.4	44.0	
170	23.4	20.2	30.4	





#51

Acenaphthene

Concen: 104.54 ng

RT: 9.95 min Scan# 688

Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

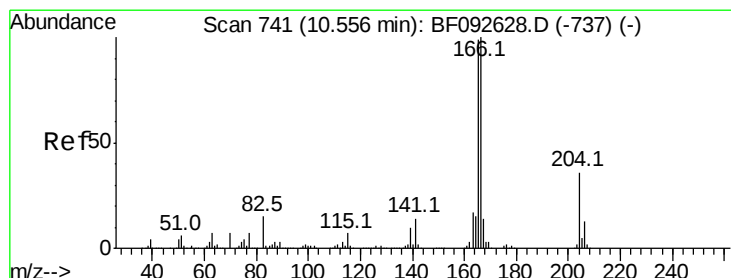
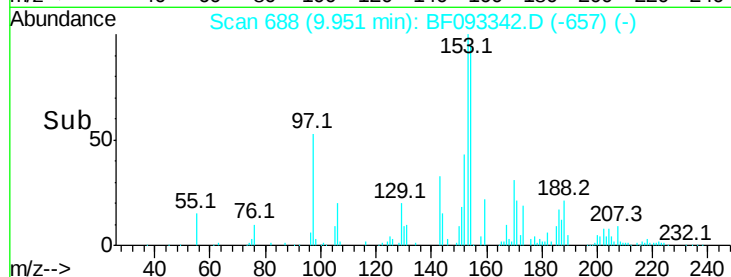
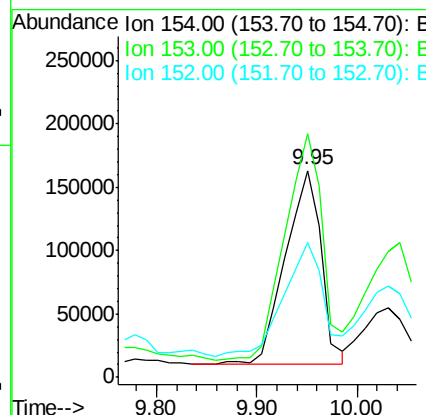
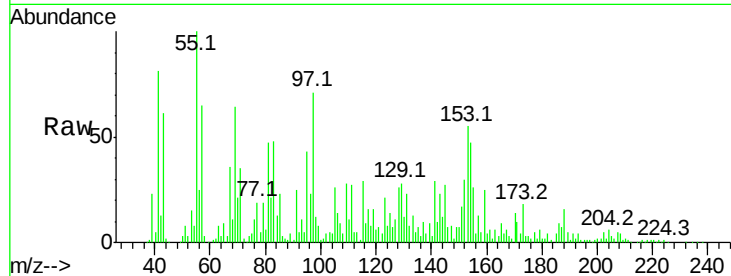
ClientSampleId :

HY-SB421A

Tot Ion:	154	Resp:	376686
Ion Ratio	Lower	Upper	
154	100		
153	117.9	88.6	133.0
152	65.0	41.6	62.4

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



#57

Fluorene

Concen: 99.08 ng

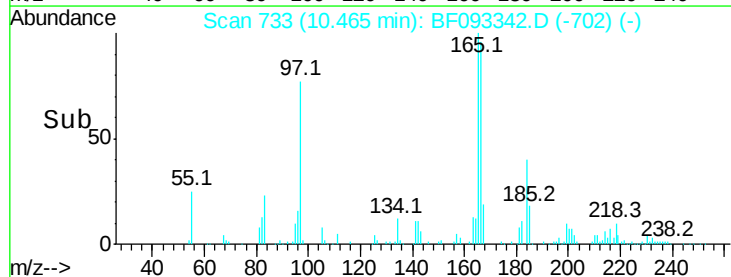
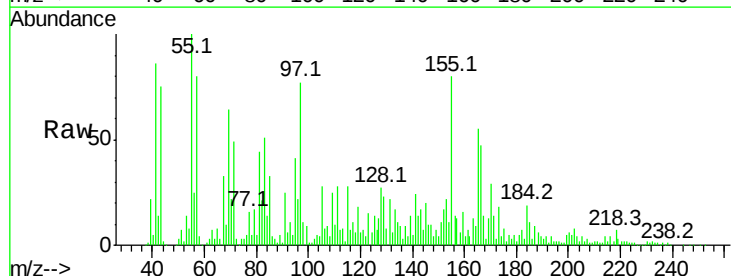
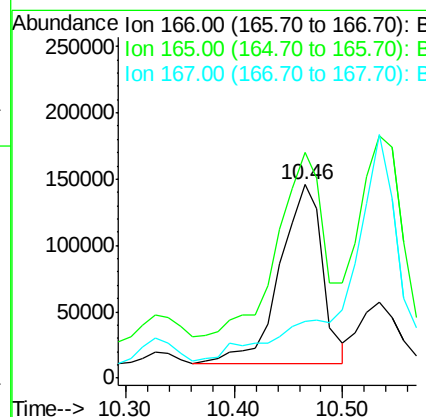
RT: 10.46 min Scan# 733

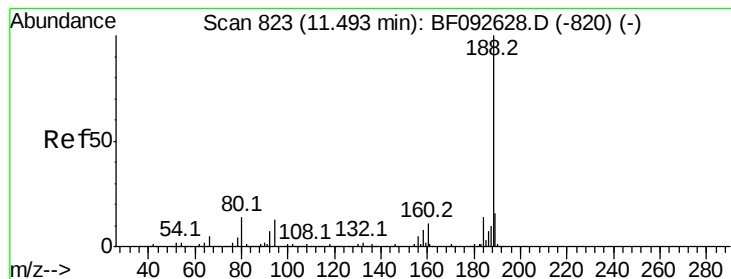
Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Tgt Ion:	166	Resp:	367338
Ion Ratio	Lower	Upper	
166	100		
165	117.0	77.8	116.8
167	29.2	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.40 min Scan# 815

Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

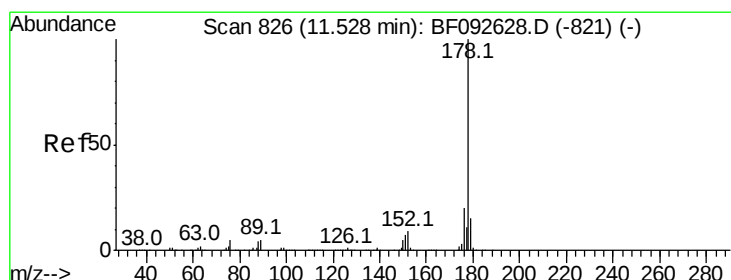
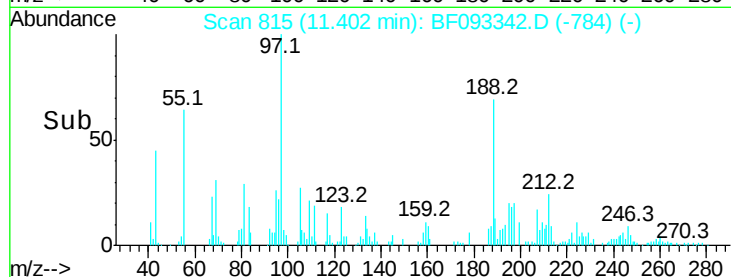
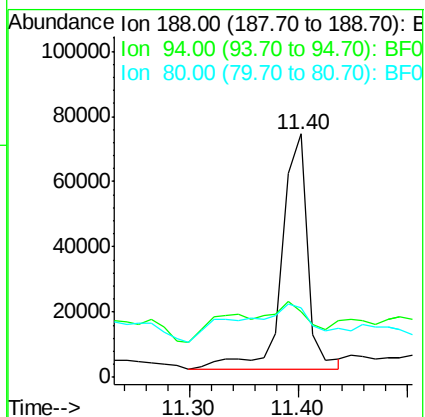
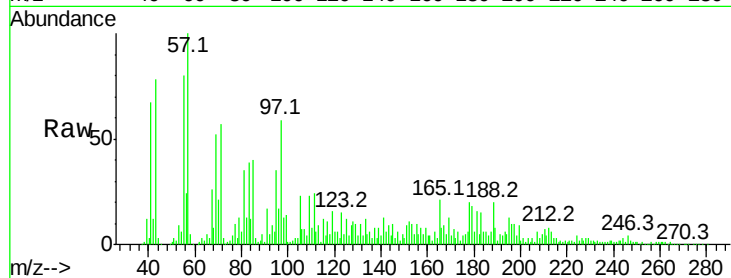
ClientSampleId :

HY-SB421A

Tot Ion:	188	Resp:	119123
Ion Ratio	Lower	Upper	
188	100		
94	26.9	10.0	15.0#
80	28.4	11.2	16.8#

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



#70

Phenanthrene

Concen: 122.74 ng

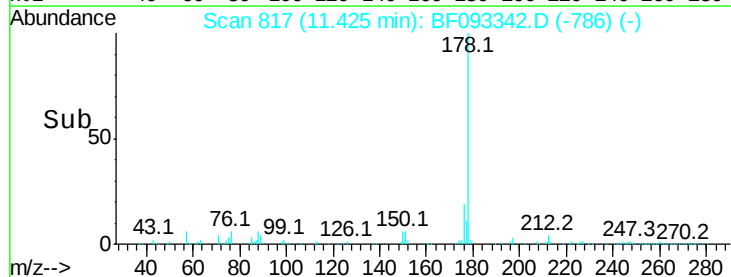
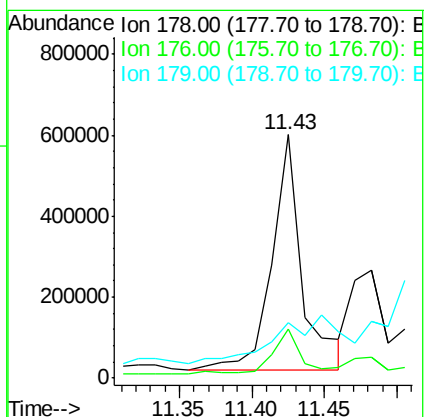
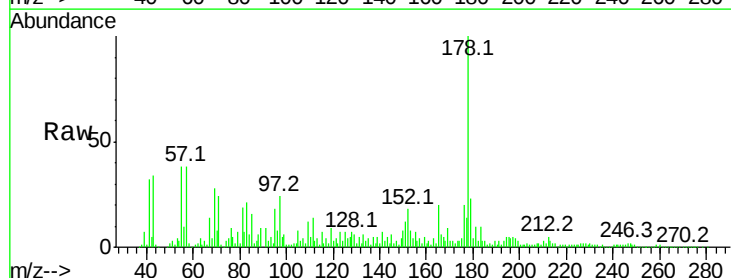
RT: 11.43 min Scan# 817

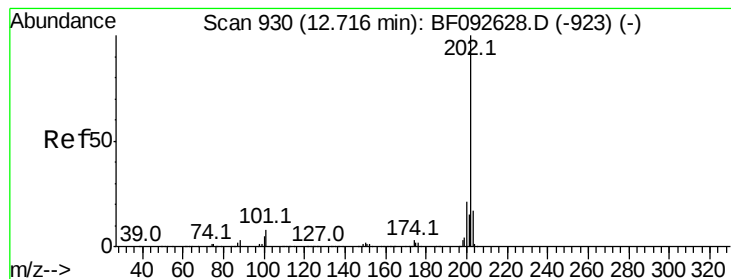
Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Tgt Ion:	178	Resp:	837658
Ion Ratio	Lower	Upper	
178	100		
176	20.3	16.6	25.0
179	22.9	12.8	19.2#





#74

Fluoranthene

Concen: 319.12 ng

RT: 12.61 min Scan# 921

Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

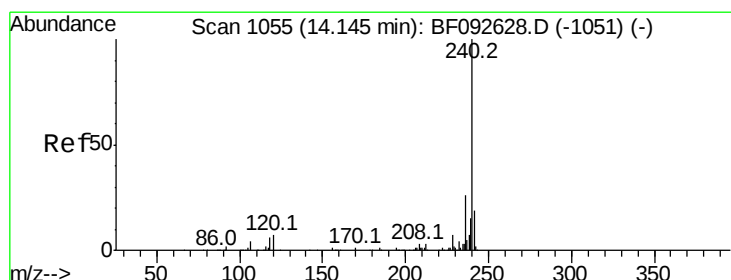
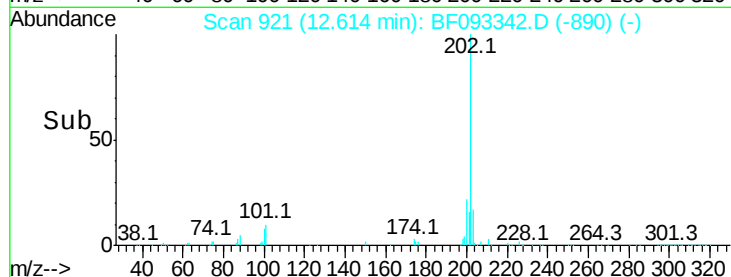
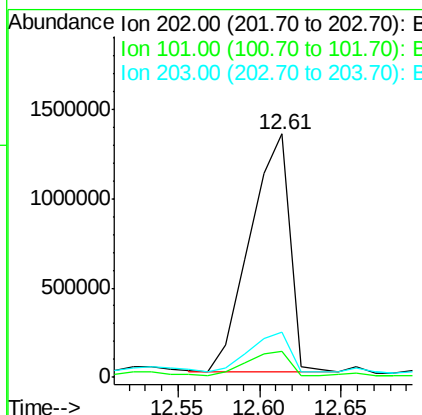
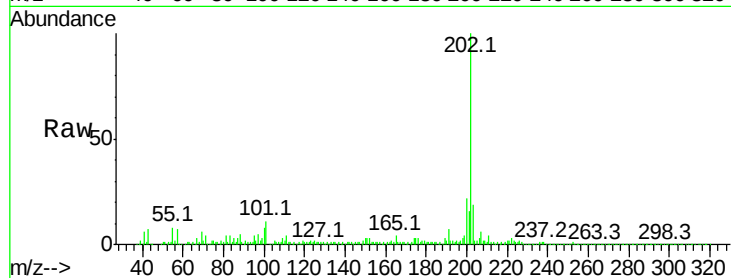
ClientSampleId :

HY-SB421A

Tot Ion:	202	Resp:	2246481
Ion Ratio	Lower	Upper	
202	100		
101	10.8	0.0	34.6
203	18.7	0.0	38.7

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



#75

Chrysene-d12

Concen: 20.00 ng

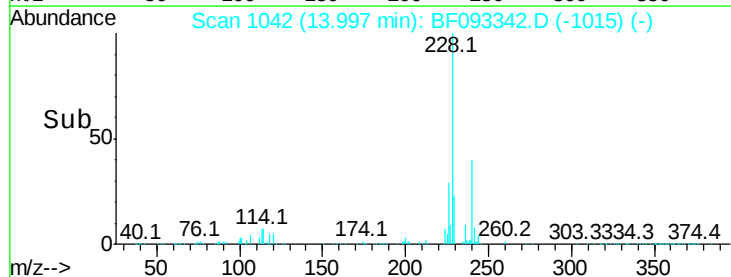
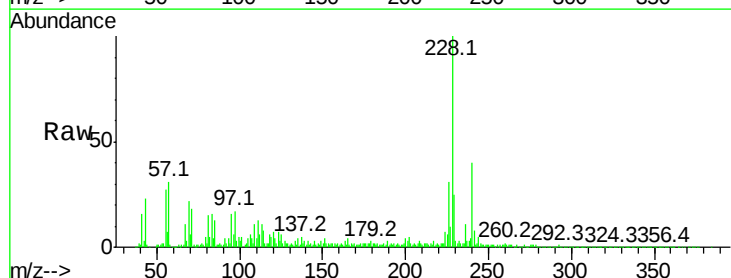
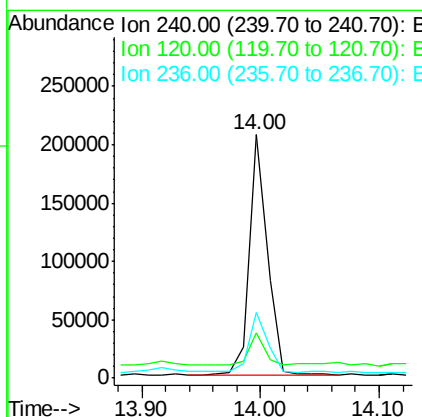
RT: 14.00 min Scan# 1042

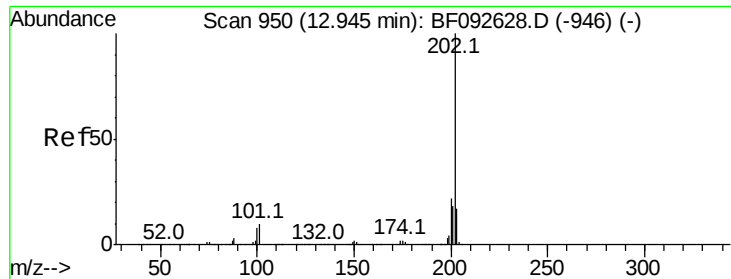
Delta R.T. 0.01 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Tgt Ion:	240	Resp:	220224
Ion Ratio	Lower	Upper	
240	100		
120	18.7	12.9	19.3
236	27.1	20.9	31.3





#77

Pvrene

Concen: 165.27 ng/mL

RT: 12.84 min Scan# 941

Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

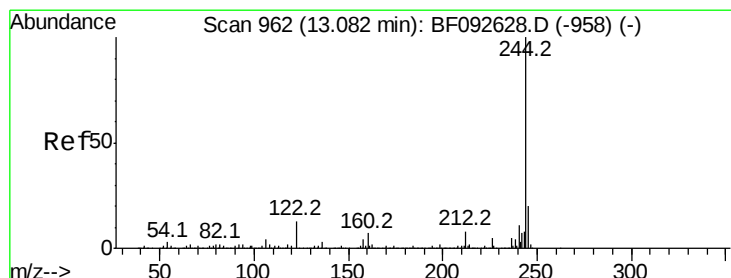
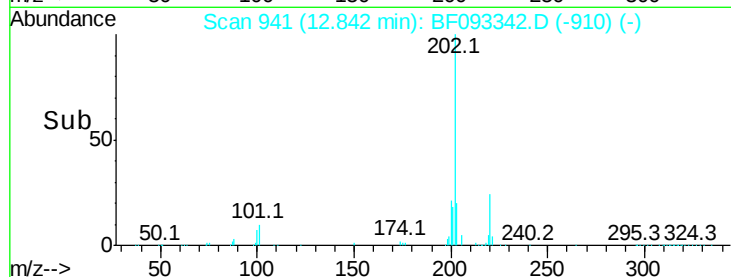
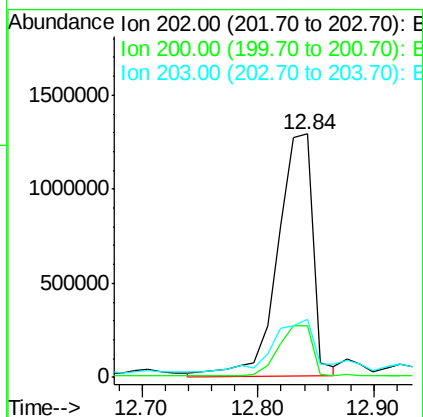
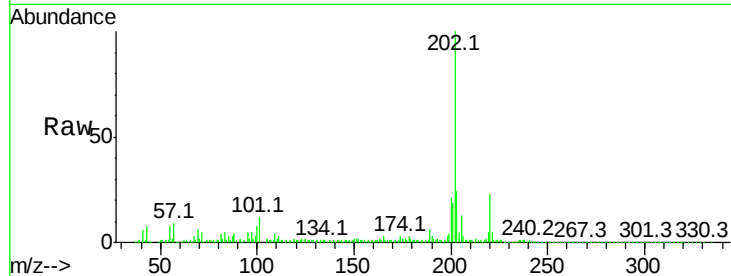
ClientSampleId :

HY-SB421A

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.7	26.5
203	23.6	14.7	22.1

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



#78

Terphenyl-d14

Concen: 32.53 ng/mL

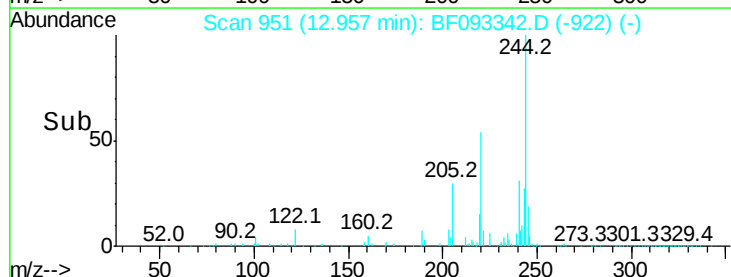
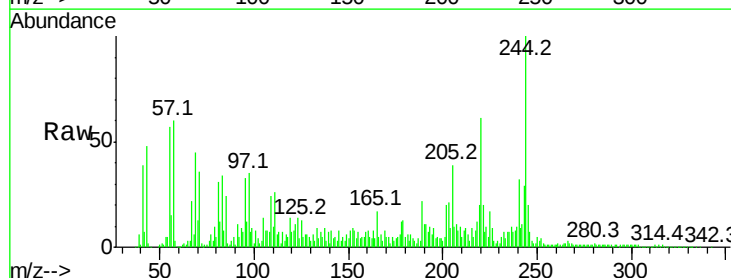
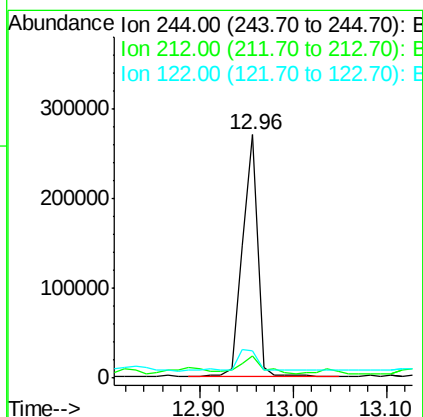
RT: 12.96 min Scan# 951

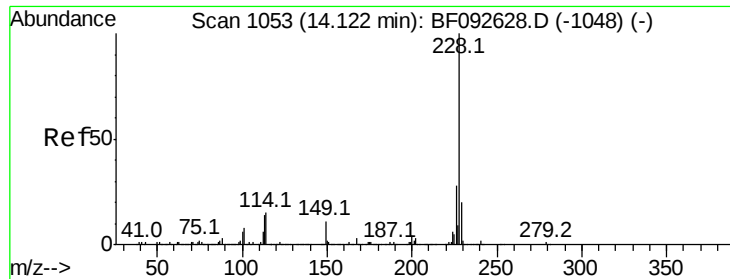
Delta R.T. 0.03 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.0	6.2	9.2
122	11.2	11.4	17.2





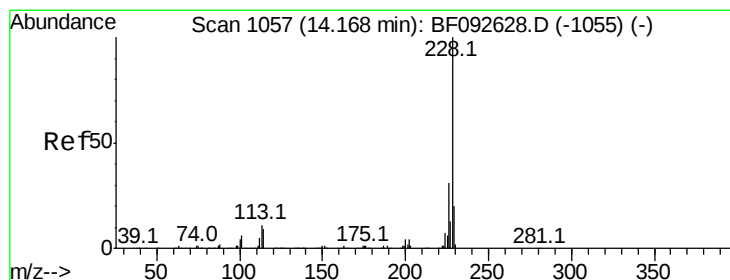
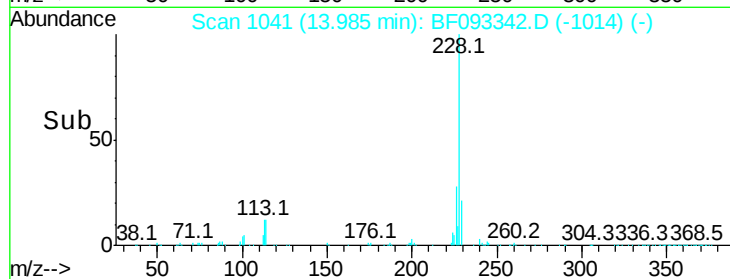
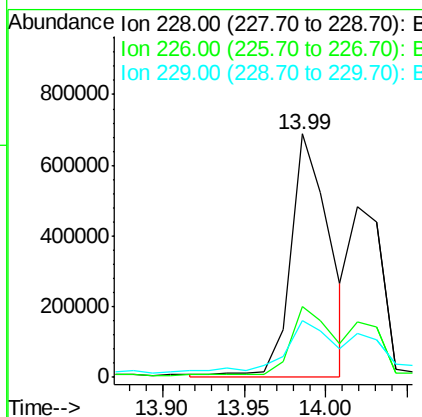
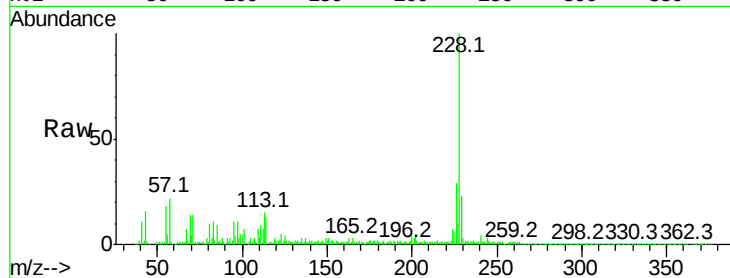
#80
Benzo(a)anthracene
Concen: 84.58 ng m
RT: 13.99 min Scan# 1041
Delta R.T. 0.01 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Instrument :
BNA_F
ClientSampleId :
HY-SB421A

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.4	33.6
229	23.3	16.2	24.4

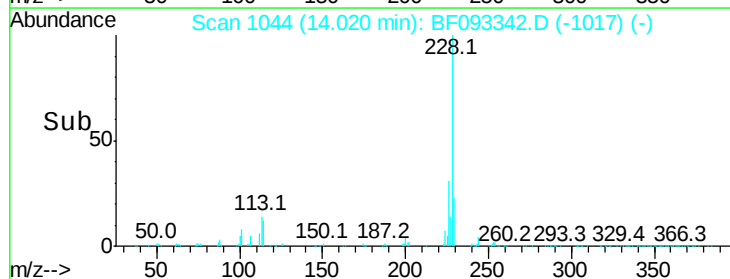
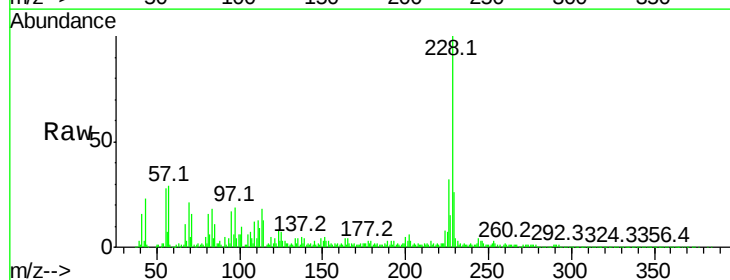
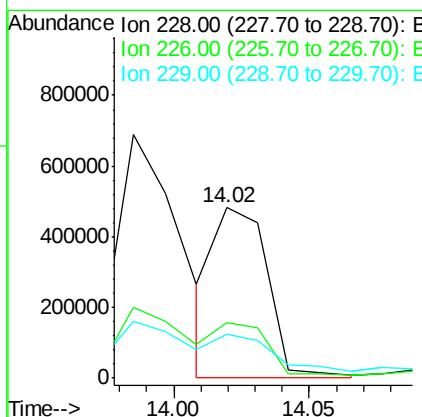
Manual Integrations
APPROVED

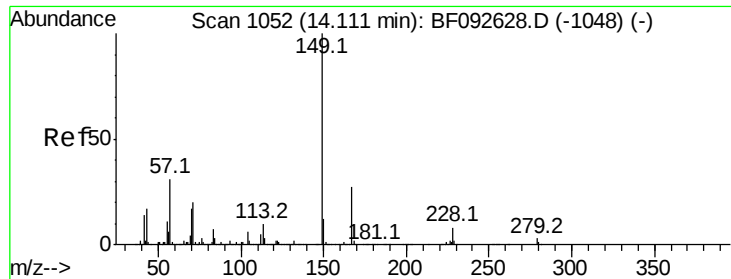
mohammad
3/3/2017 5:16:53 PM



#82
Chrysene
Concen: 52.72 ng m
RT: 14.02 min Scan# 1044
Delta R.T. 0.01 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.4	38.0
229	25.8	16.2	24.2





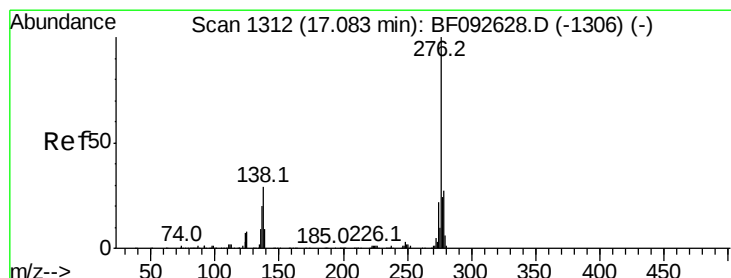
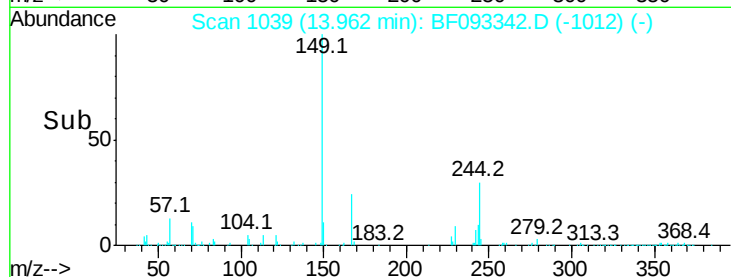
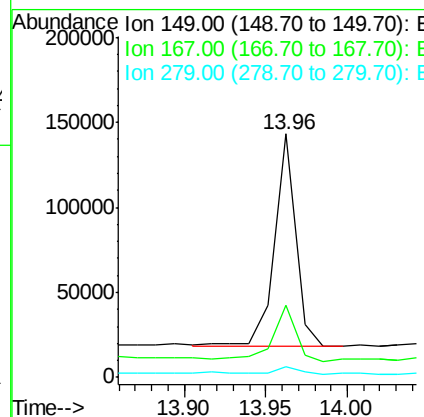
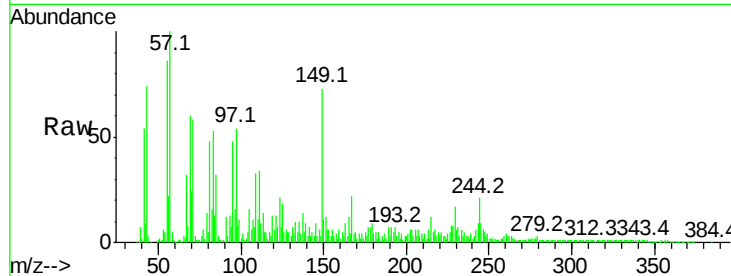
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 12.56 ng
 RT: 13.96 min Scan# 1039
 Delta R.T. 0.01 min
 Lab File: BF093342.D
 Acq: 3 Mar 2017 1:07

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421A

Tot Ion	Ratio	Resp	Lower	Upper
149	100			
167	29.6	20.2	30.4	
279	4.4	1.8	2.8	

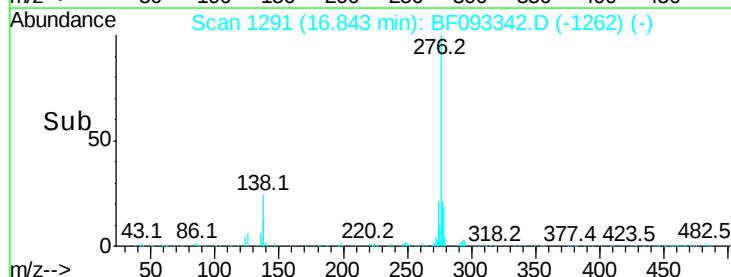
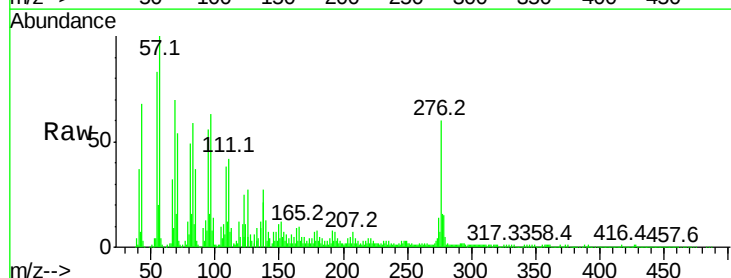
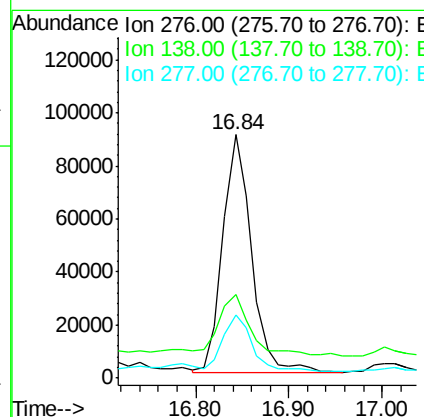
Manual Integrations
 APPROVED

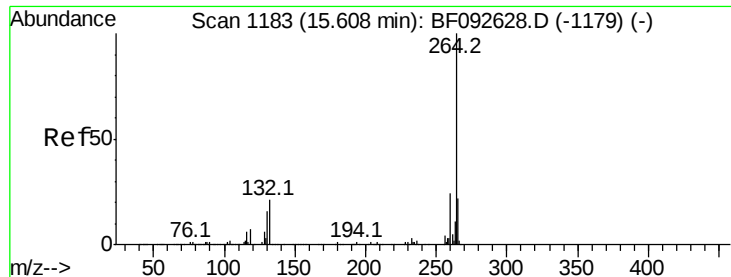
mohammad
 3/3/2017 5:16:53 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.69 ng
 RT: 16.84 min Scan# 1291
 Delta R.T. 0.03 min
 Lab File: BF093342.D
 Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	33.2	21.8	32.6	
277	23.9	20.2	30.4	





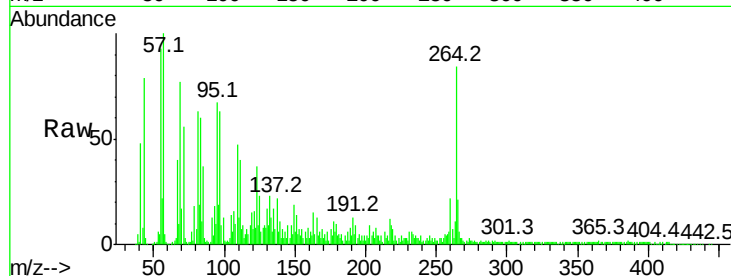
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1167
Delta R.T. 0.02 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Instrument :
BNA_F
ClientSampleId :
HY-SB421A

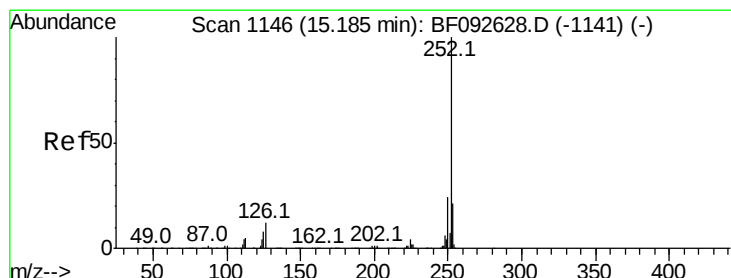
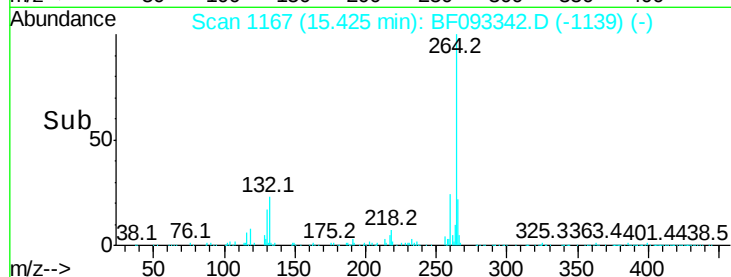
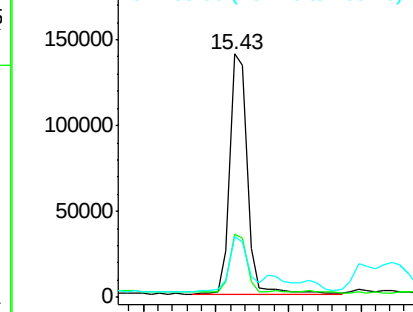
Tot Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.2	28.8
265	24.7	17.4	26.0

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM

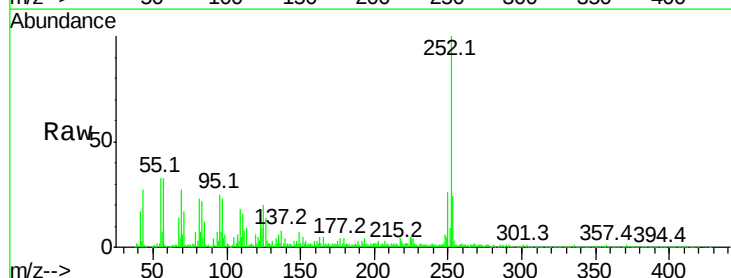


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

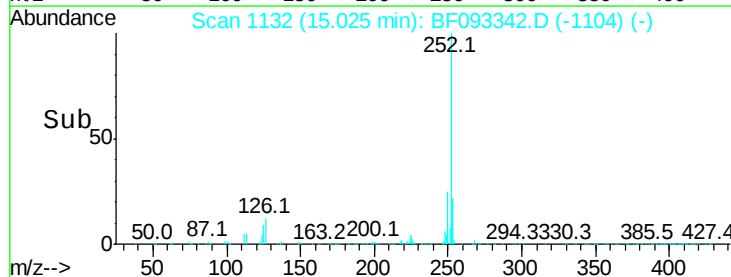
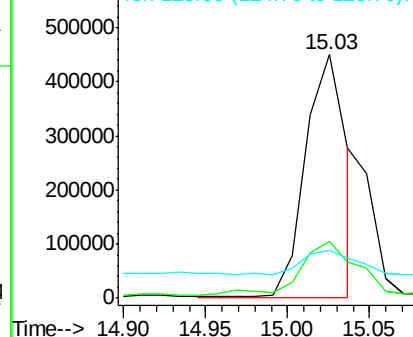


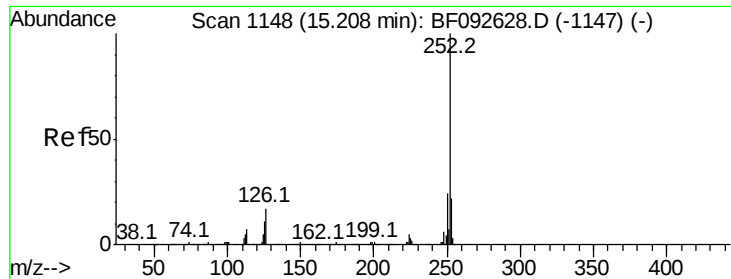
#87
Benzo(b)fluoranthene
Concen: 51.28 ng m
RT: 15.03 min Scan# 1132
Delta R.T. 0.02 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.4
125	19.6	9.8	14.6



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





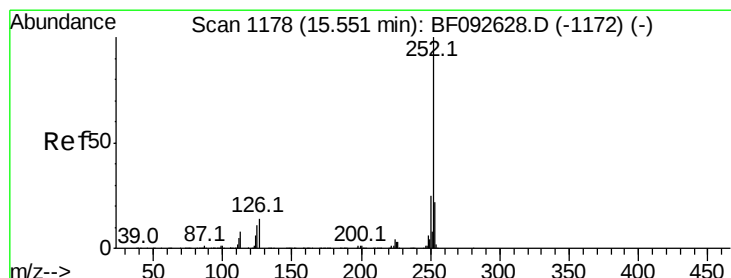
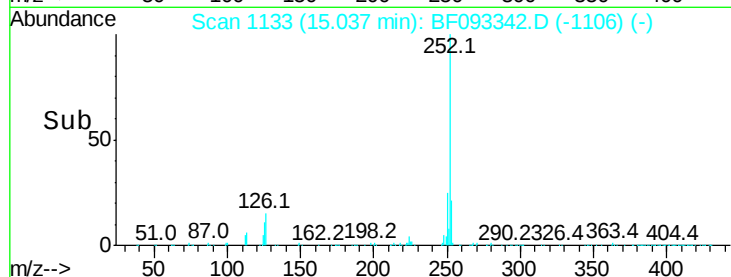
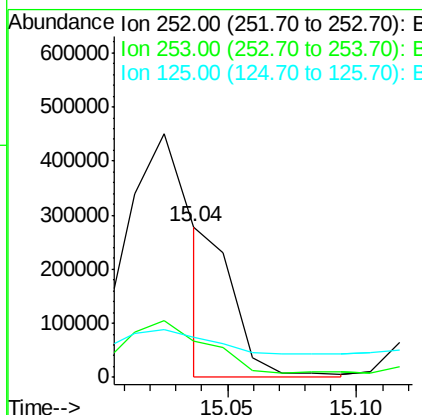
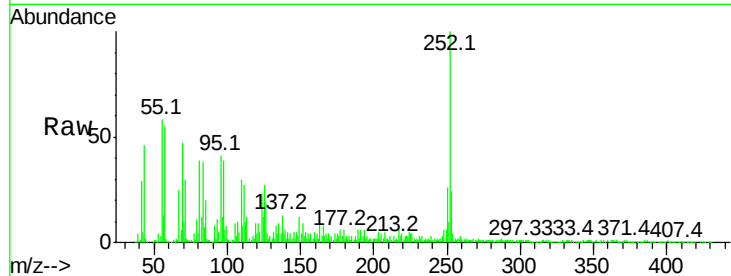
#88
Benzo(k)fluoranthene
Concen: 14.85 ng m
RT: 15.04 min Scan# 1133
Delta R.T. 0.01 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Instrument :
BNA_F
ClientSampleId :
HY-SB421A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.5	27.7
125	26.9	8.9	13.3

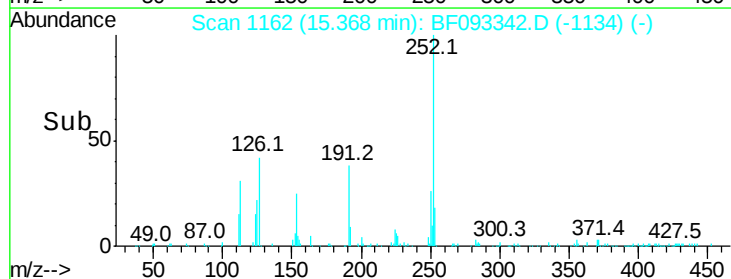
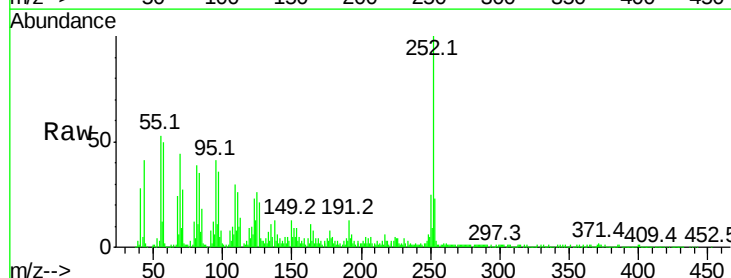
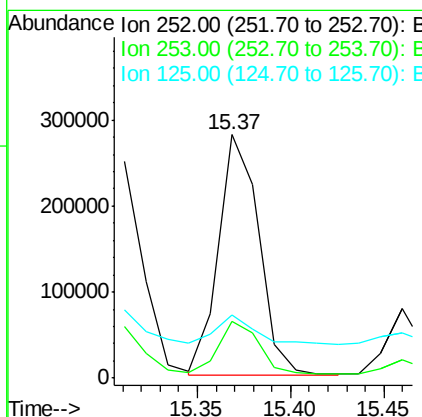
Manual Integrations
APPROVED

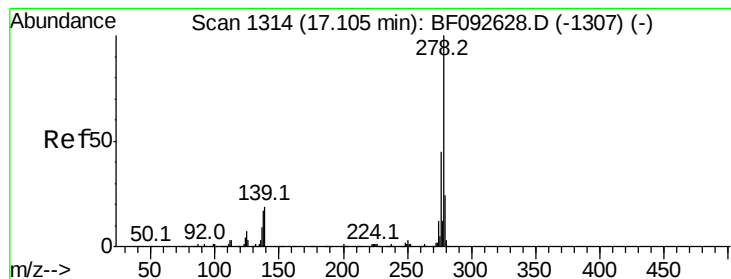
mohammad
3/3/2017 5:16:53 PM



#89
Benzo(a)pyrene
Concen: 31.46 ng
RT: 15.37 min Scan# 1162
Delta R.T. 0.02 min
Lab File: BF093342.D
Acq: 3 Mar 2017 1:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	25.7	10.0	15.0





#90

Dibenzo(a,h)anthracene

Concen: 4.52 ng/mL

RT: 16.84 min Scan# 1291

Delta R.T. 0.03 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Instrument :

BNA_F

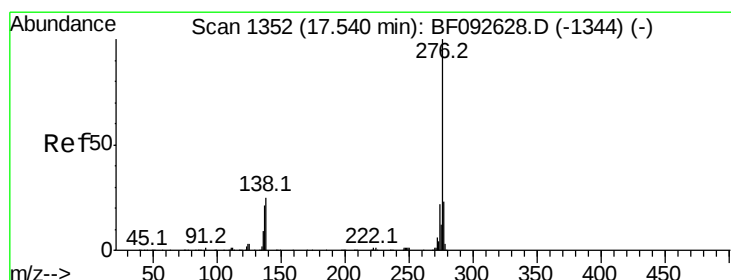
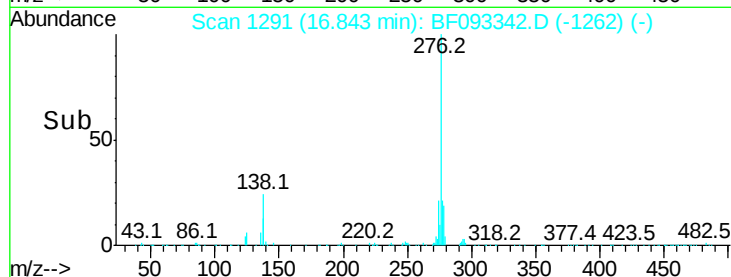
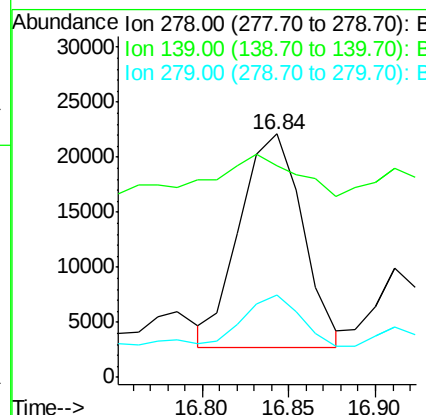
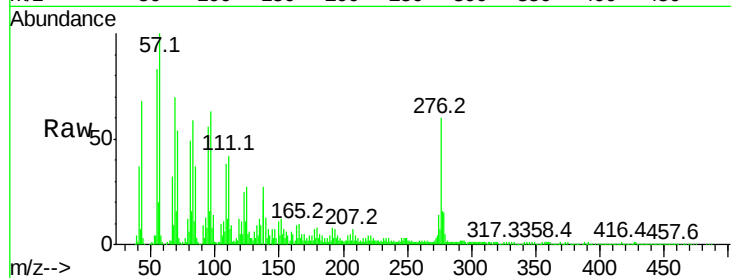
ClientSampleId :

HY-SB421A

Tot Ion:	278	Resp:	49232
Ion Ratio	Lower	Upper	
278	100		
139	86.7	14.8	22.2#
279	34.1	19.8	29.6#

Manual Integrations
APPROVED

mohammad
3/3/2017 5:16:53 PM



#91

Benzo(g,h,i)perylene

Concen: 15.88 ng/mL

RT: 17.28 min Scan# 1329

Delta R.T. 0.06 min

Lab File: BF093342.D

Acq: 3 Mar 2017 1:07

Tgt Ion:	276	Resp:	174783
Ion Ratio	Lower	Upper	
276	100		
277	27.4	19.2	28.8
138	34.6	16.0	24.0#

