

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093230.D
 Acq On : 28 Feb 2017 3:05
 Operator : SJ/MA
 Sample : I1972-04 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-1

Manual Integrations
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Quant Time: Feb 28 04:58:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 28 00:51:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	171842	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	613224	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	270980	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	409800	20.00	ng	0.00
75) Chrysene-d12	14.00	240	321358	20.00	ng	0.01
86) Perylene-d12	15.43	264	262181	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	288761	28.83	ng	0.00
7) Phenol-d6	6.46	99	368612	28.60	ng	-0.01
23) Nitrobenzene-d5	7.38	82	191912	17.43	ng	-0.01
41) 2,4,6-Tribromophenol	10.65	330	45301	23.11	ng	-0.01
44) 2-Fluorobiphenyl	9.18	172	281312	18.81	ng	0.00
78) Terphenyl-d14	12.93	244	181468	13.27	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.12	128	376566	12.11	ng	99
37) 2-Methylnaphthalene	8.82	142	116702	5.85	ng	97
45) 1,1'-Biphenyl	9.28	154	72352	3.69	ng	94
48) Acenaphthylene	9.72	152	425974	16.06	ng	97
51) Acenaphthene	9.89	154	100167	6.32	ng	96
57) Fluorene	10.41	166	193797m	11.88	ng	
70) Phenanthrene	11.37	178	962235	40.98	ng	99
71) Anthracene	11.42	178	387014	16.41	ng	97
74) Fluoranthene	12.57	202	1061996	43.85	ng	93
77) Pyrene	12.80	202	1895911	78.83	ng	99
80) Benzo(a)anthracene	13.99	228	791635	40.28	ng	# 81
82) Chrysene	14.02	228	732162m	39.79	ng	
85) Indeno(1,2,3-cd)pyrene	16.84	276	577775	40.53	ng	97
87) Benzo(b)fluoranthene	15.03	252	1031556m	59.78	ng	
88) Benzo(k)fluoranthene	15.04	252	138627m	9.30	ng	
89) Benzo(a)pyrene	15.38	252	1082408	72.51	ng	99
90) Dibenzo(a,h)anthracene	16.83	278	169507m	14.05	ng	
91) Benzo(g,h,i)perylene	17.27	276	813437	66.74	ng	# 89

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

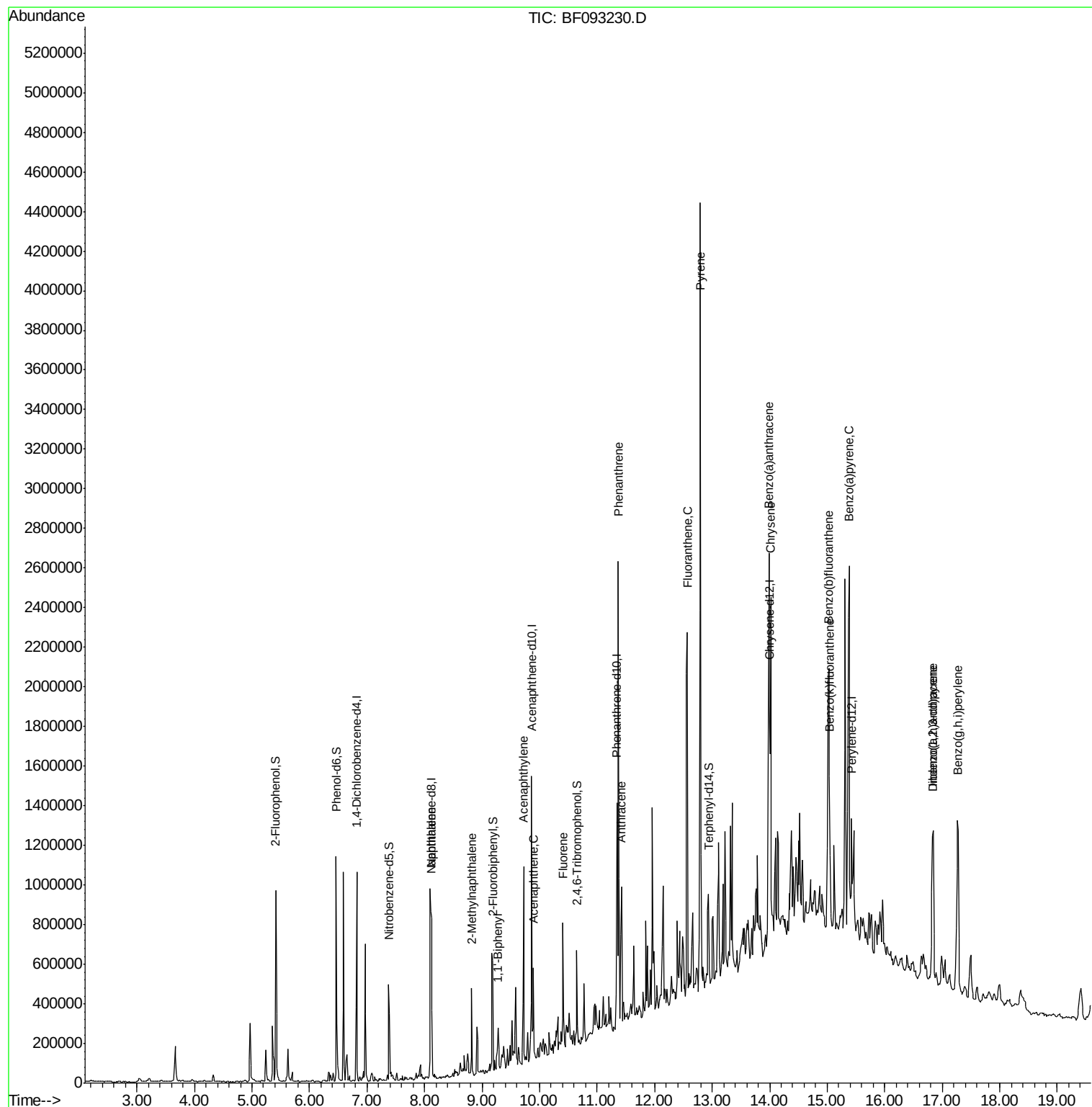
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
Data File : BF093230.D
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ALS Vial : 19 Sample Multiplier: 1

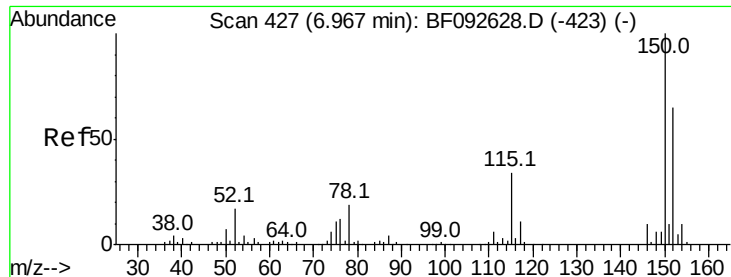
Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

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Quant Time: Feb 28 04:58:32 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

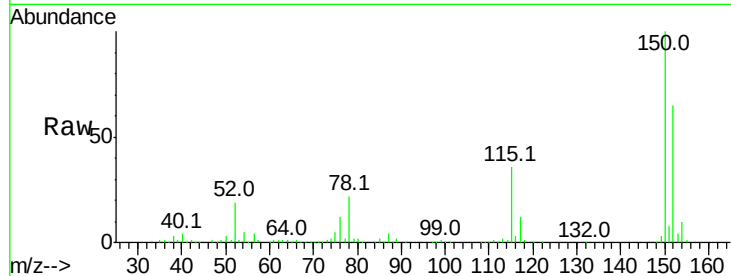
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 414
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

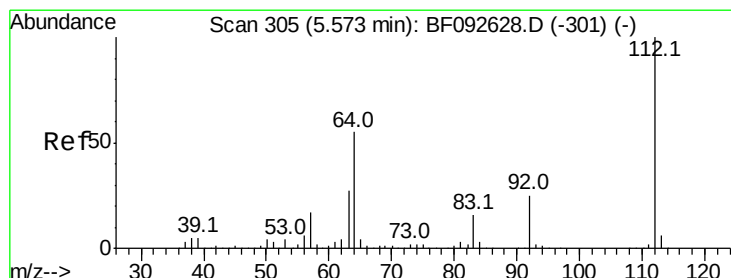
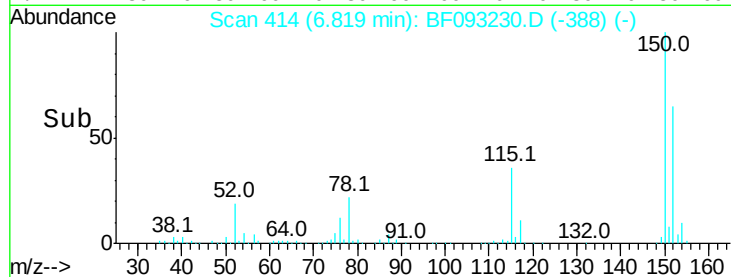
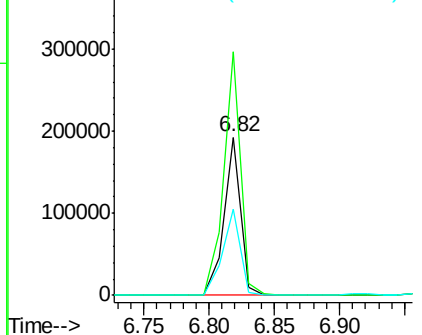
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.9	187.3
115	54.9	46.0	69.0

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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

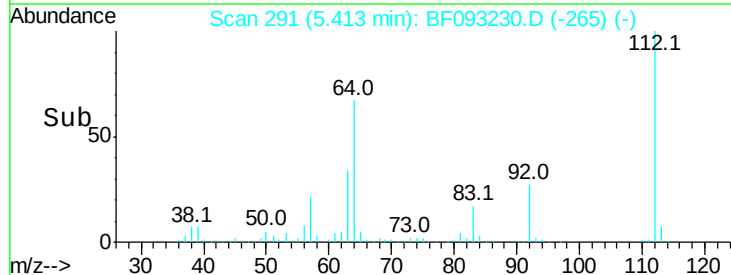
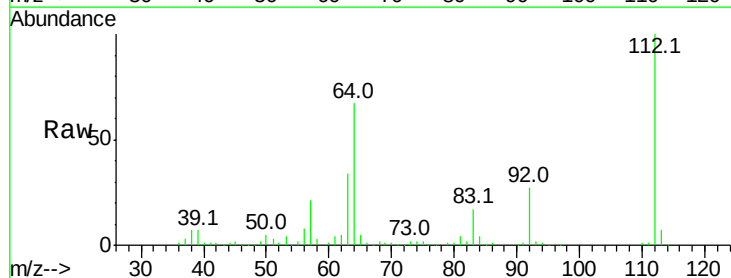
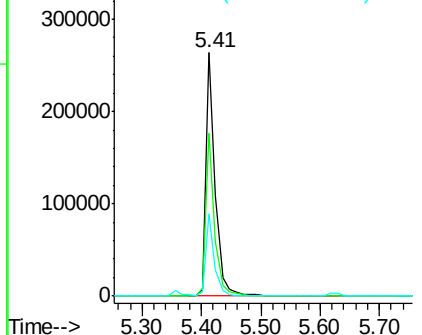


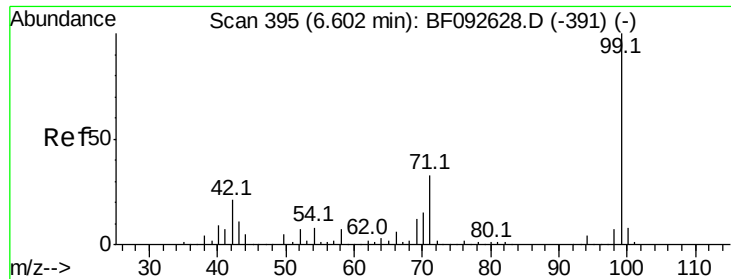
#5

2-Fluorophenol
Concen: 28.83 ng
RT: 5.41 min Scan# 291
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	46.1	69.1
63	33.6	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: 28.60 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.01 min

Lab File: BF093230.D

Acq: 28 Feb 2017 3:05

Instrument :

BNA_F

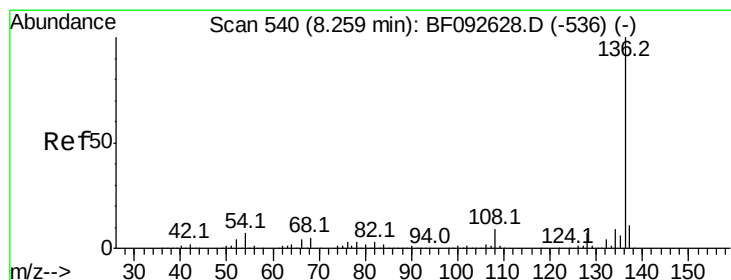
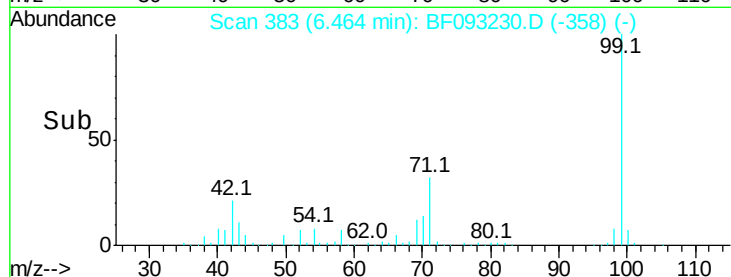
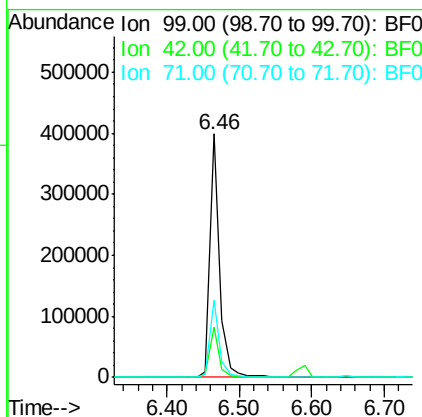
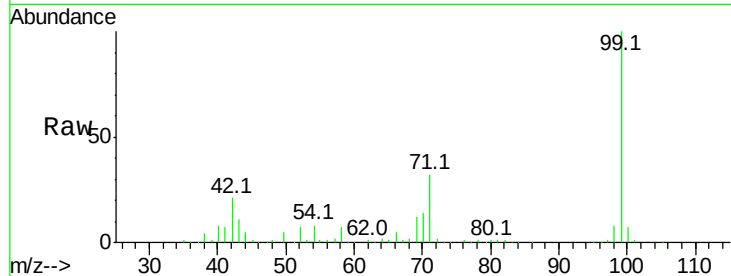
ClientSampleId :

E2B21-BASE-1

Tot Ion:	99	Resp:	368612
Ion Ratio	Lower	Upper	
99	100		
42	20.9	15.6	23.4
71	31.8	27.5	41.3

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#21

Naphthalene-d8

Concen: 20.00 ng

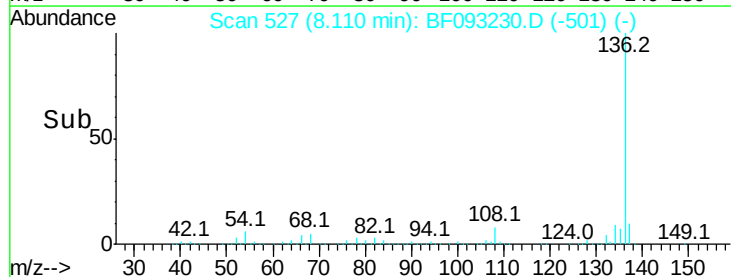
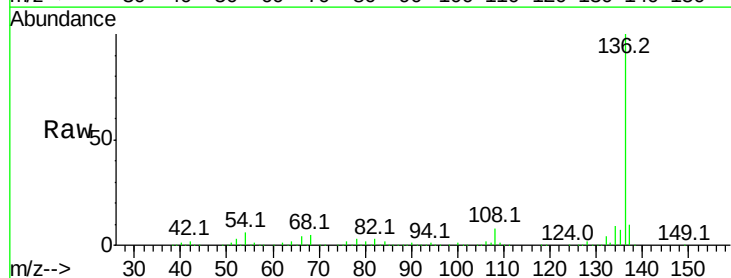
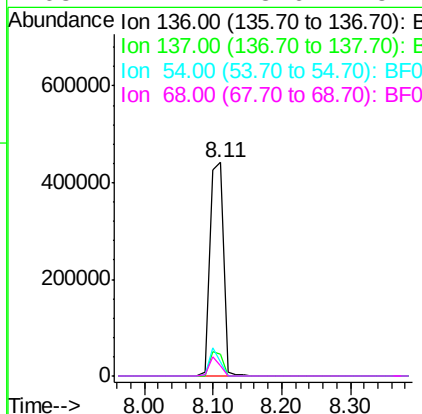
RT: 8.11 min Scan# 527

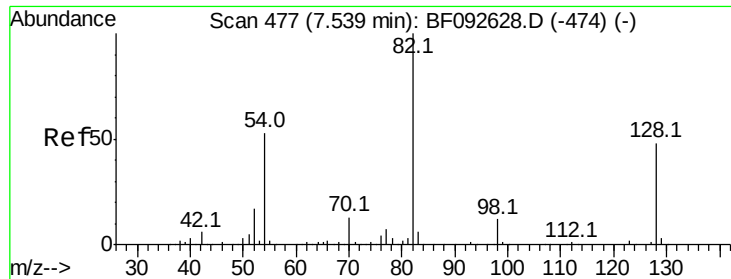
Delta R.T. 0.00 min

Lab File: BF093230.D

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Tgt Ion:	136	Resp:	613224
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.4	12.6
54	6.5	4.5	6.7
68	4.7	3.6	5.4





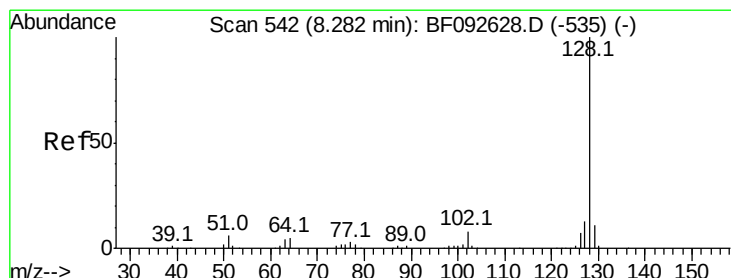
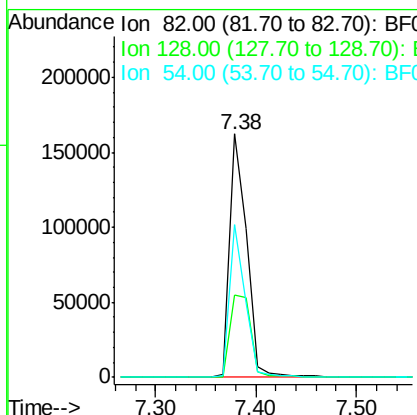
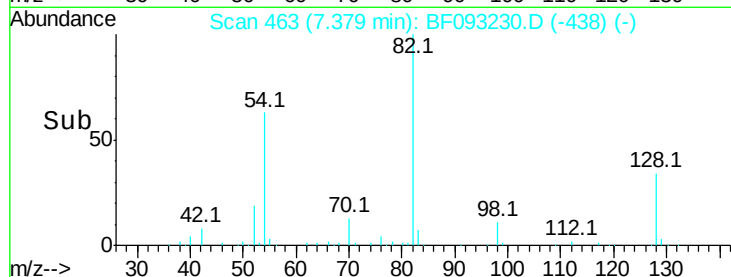
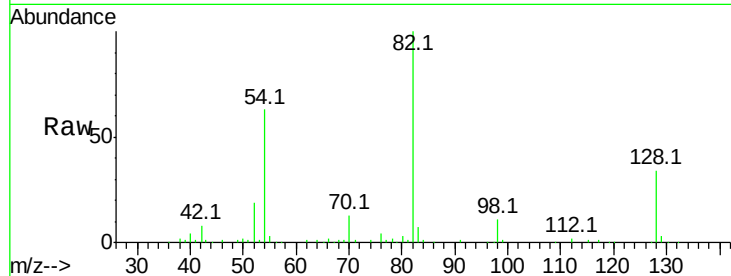
#23
 Nitrobenzene-d5
 Concen: 17.43 ng
 RT: 7.38 min Scan# 463
 Delta R.T. -0.01 min
 Lab File: BF093230.D
 Acq: 28 Feb 2017 3:05

Instrument :
 BNA_F
 ClientSampleId :
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Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	34.0	34.6	52.0#
54	62.7	39.5	59.3#

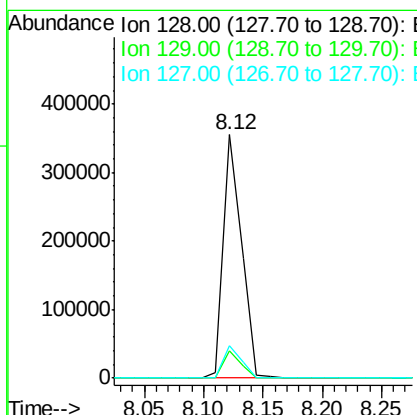
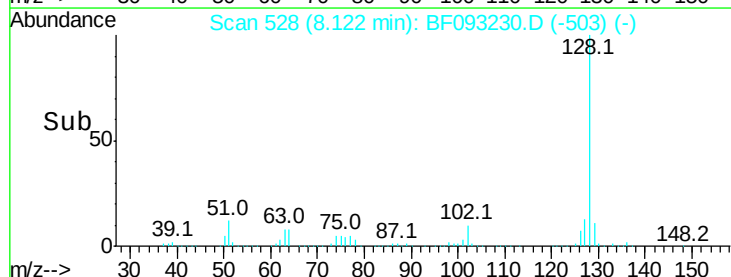
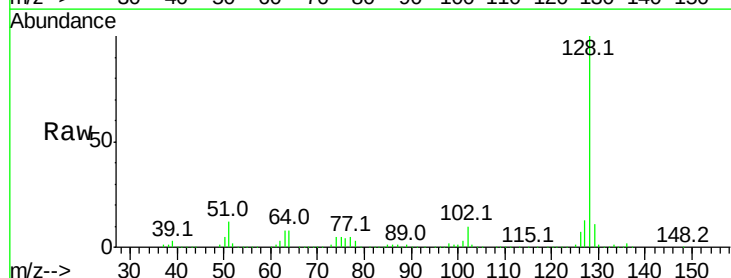
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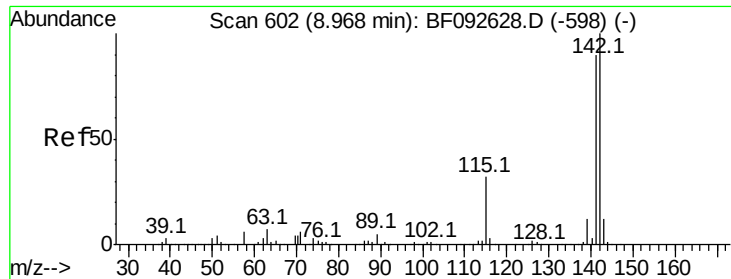
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#31
 Naphthalene
 Concen: 12.11 ng
 RT: 8.12 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: BF093230.D
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Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	11.2	9.5	14.3
127	13.2	10.8	16.2





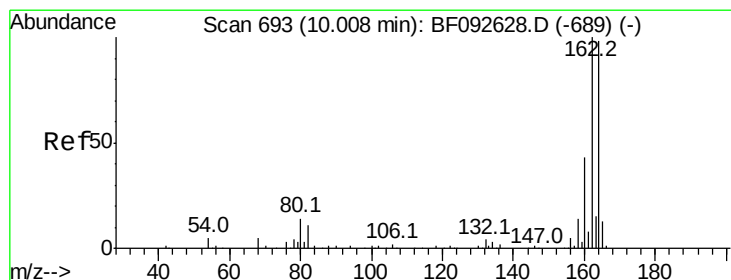
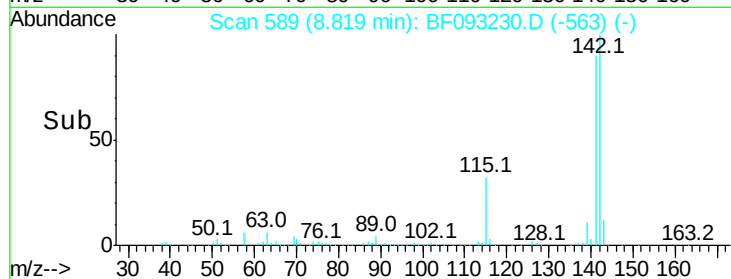
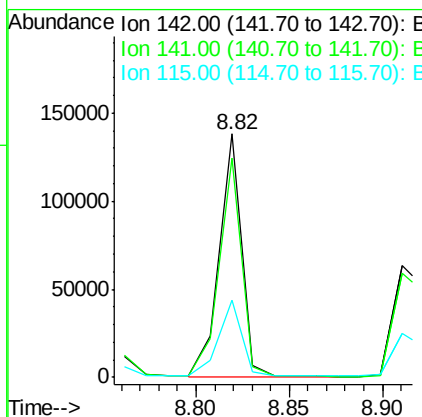
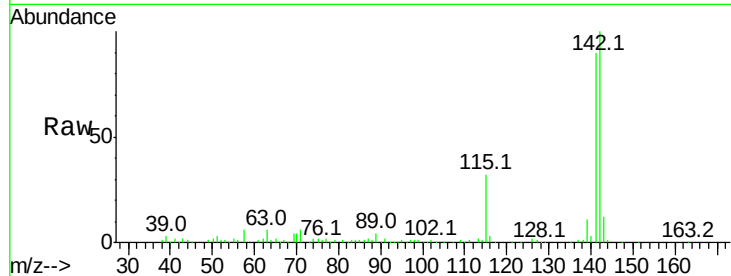
#37
2-Methylnaphthalene
Concen: 5.85 ng
RT: 8.82 min Scan# 589
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

Tot Ion	Ratio	Resp	Lower	Upper
142	100	116702		
141	90.0	71.0	106.6	
115	31.9	28.3	42.5	

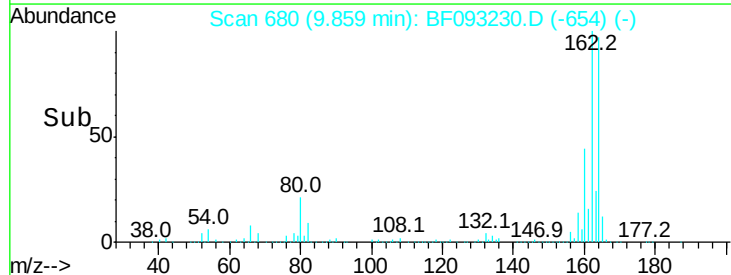
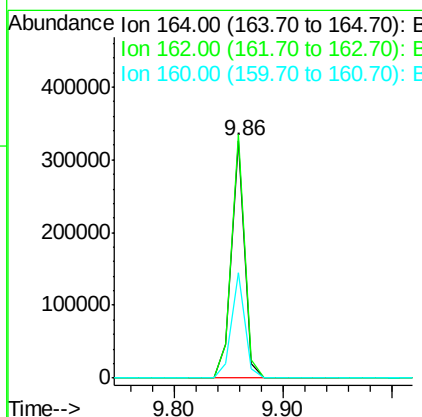
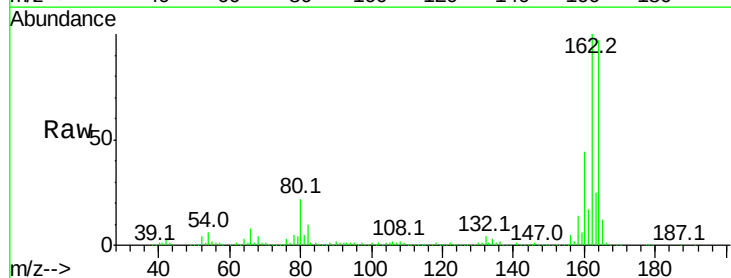
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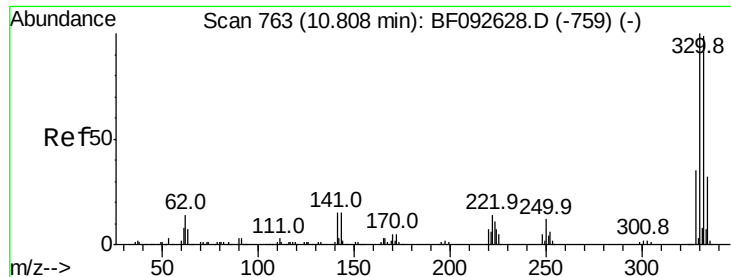
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 680
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	270980		
162	102.6	80.2	120.2	
160	44.7	36.9	55.3	





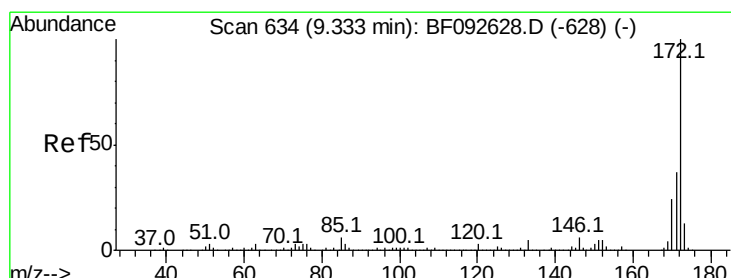
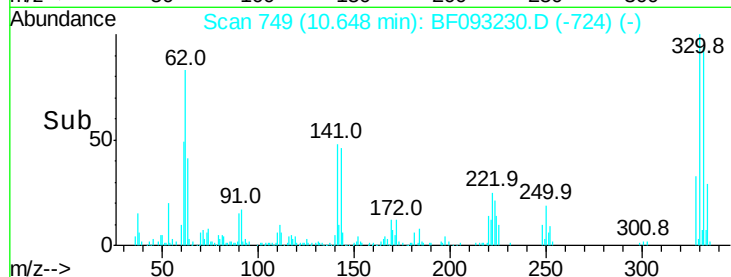
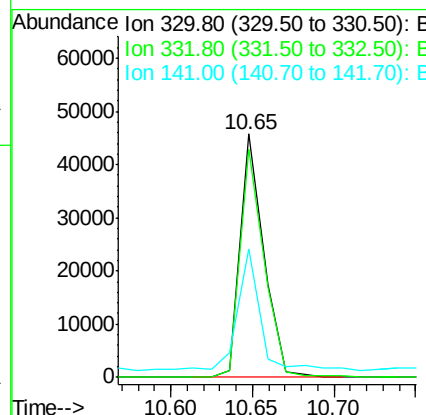
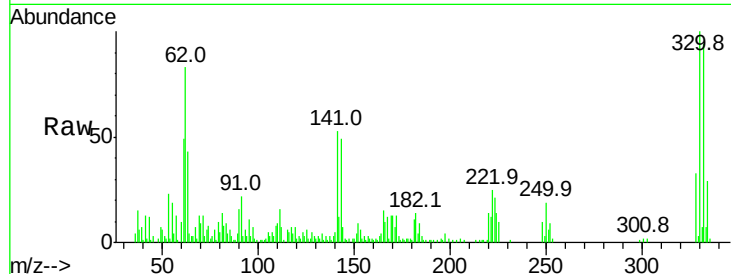
#41
 2,4,6-Tribromophenol
 Concen: 23.11 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.01 min
 Lab File: BF093230.D
 Acq: 28 Feb 2017 3:05

Instrument :
 BNA_F
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.4	116.2
141	49.3	34.1	51.1

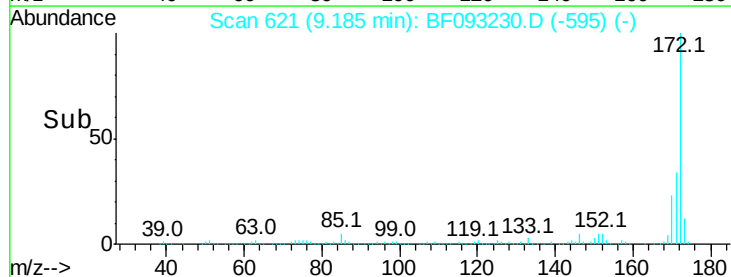
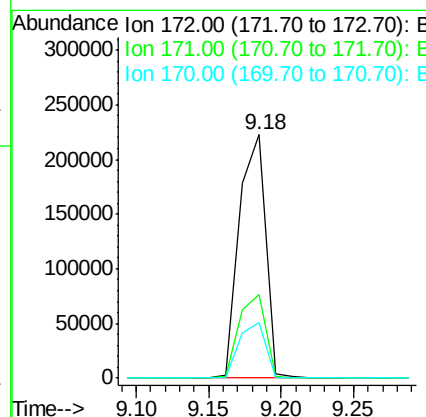
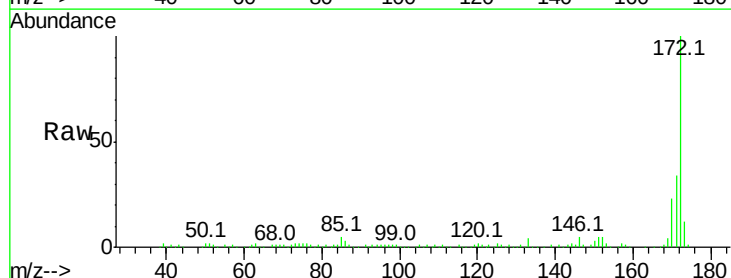
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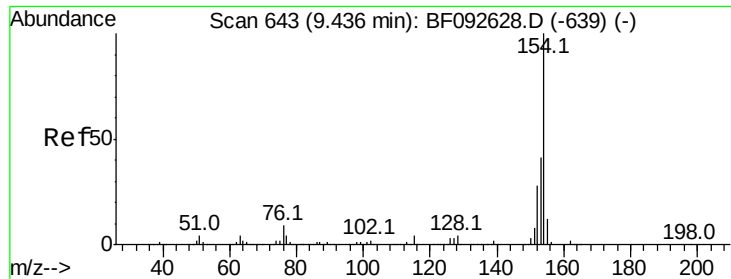
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#44
 2-Fluorobiphenyl
 Concen: 18.81 ng
 RT: 9.18 min Scan# 621
 Delta R.T. 0.00 min
 Lab File: BF093230.D
 Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	29.4	44.0
170	22.8	20.2	30.4





#45

1,1'-Biphenyl

Concen: 3.69 ng

RT: 9.28 min Scan# 629

Delta R.T. -0.01 min

Lab File: BF093230.D

Acq: 28 Feb 2017 3:05

Instrument :

BNA_F

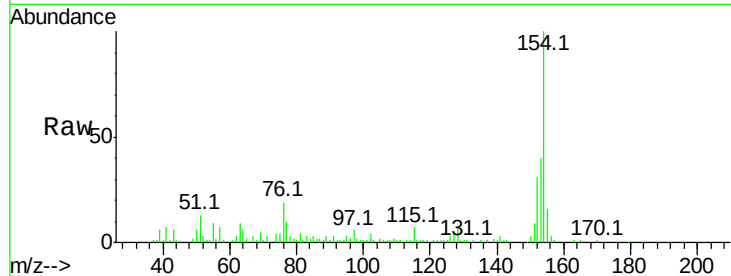
ClientSampleId :

E2B21-BASE-1

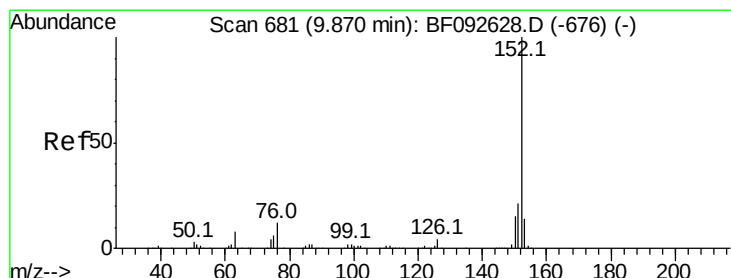
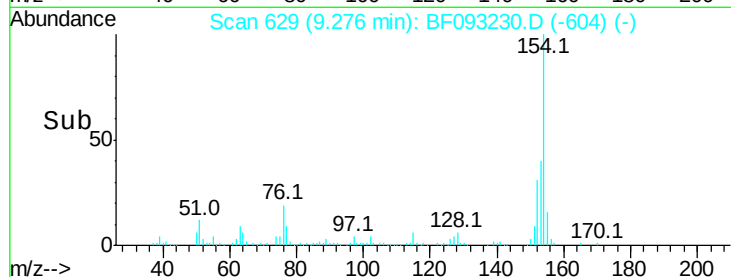
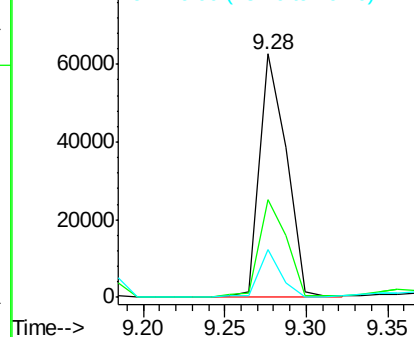
Tot Ion:	154	Resp:	72352
Ion Ratio	Lower	Upper	
154	100		
153	40.3	20.9	60.9
76	19.4	0.0	30.5

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 16.06 ng

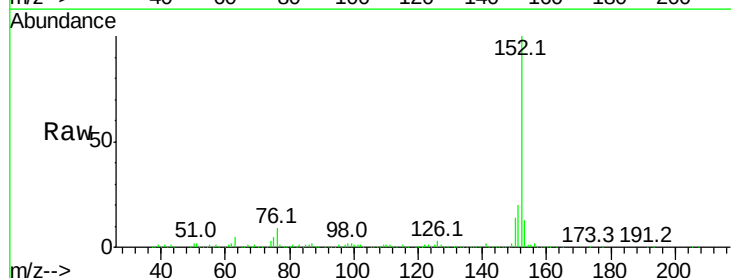
RT: 9.72 min Scan# 668

Delta R.T. 0.00 min

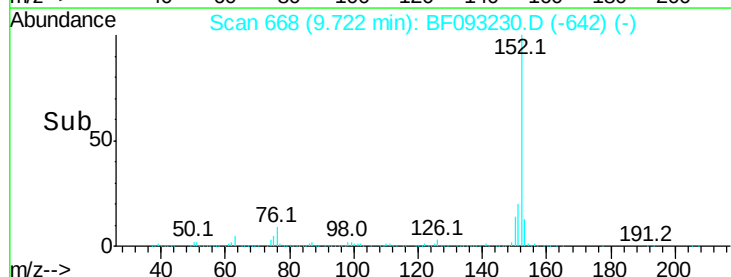
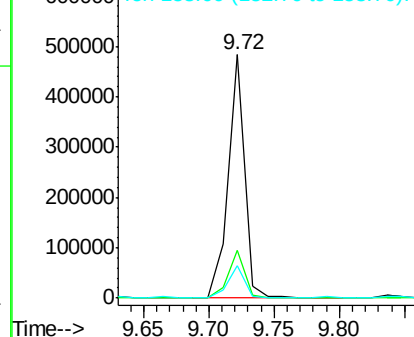
Lab File: BF093230.D

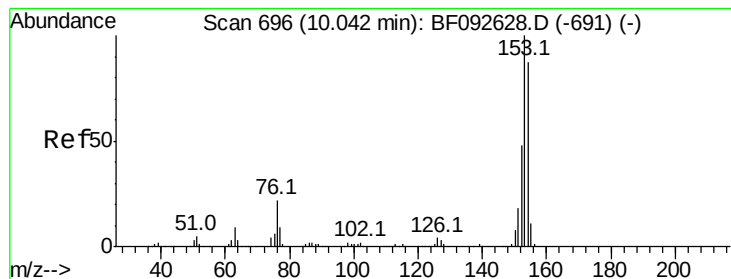
Acq: 28 Feb 2017 3:05

Tgt Ion:	152	Resp:	425974
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.9	25.3
153	13.1	11.4	17.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 6.32 ng

RT: 9.89 min Scan# 683

Delta R.T. 0.00 min

Lab File: BF093230.D

Acq: 28 Feb 2017 3:05

Instrument :

BNA_F

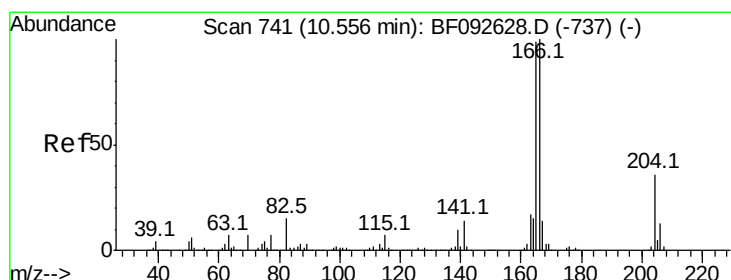
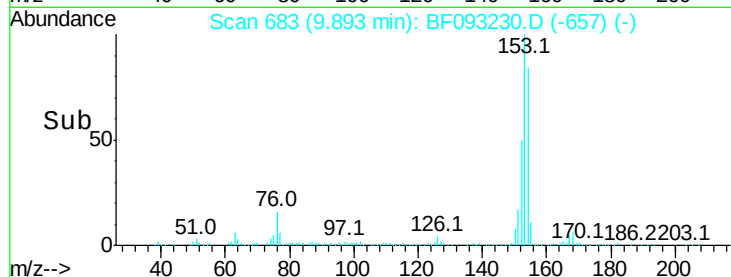
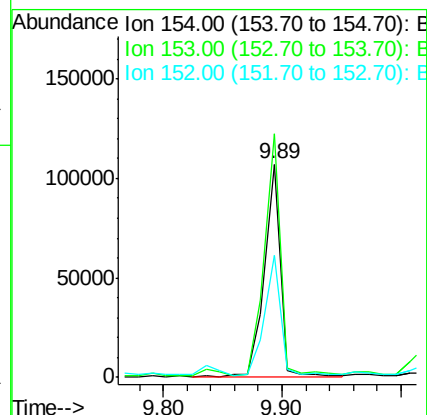
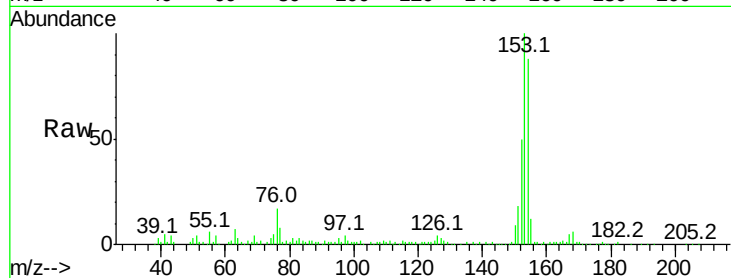
ClientSampleId :

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Tot Ion:	154	Resp:	100167
Ion Ratio	Lower	Upper	
154	100		
153	114.0	88.6	133.0
152	57.3	41.6	62.4

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#57

Fluorene

Concen: 11.88 ng m

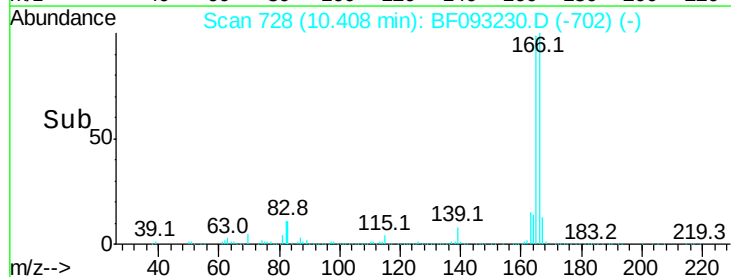
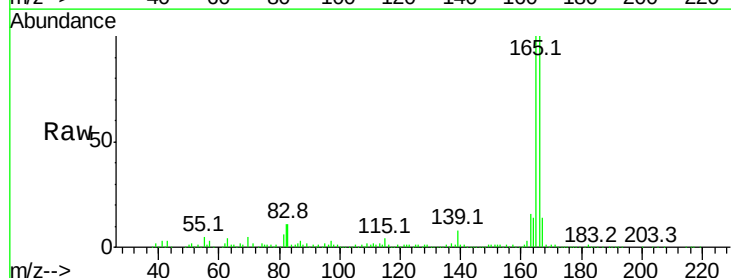
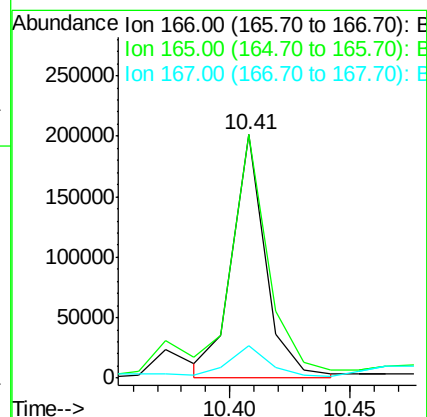
RT: 10.41 min Scan# 728

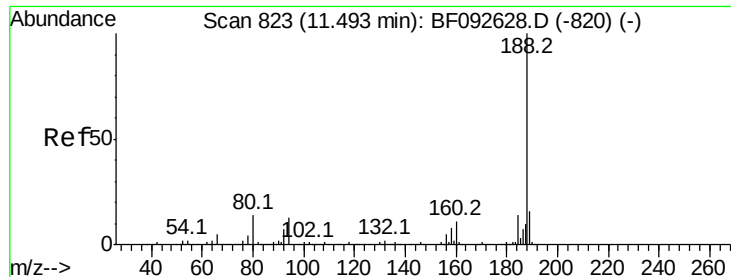
Delta R.T. 0.00 min

Lab File: BF093230.D

Acq: 28 Feb 2017 3:05

Tgt Ion:	166	Resp:	193797
Ion Ratio	Lower	Upper	
166	100		
165	99.8	77.8	116.8
167	13.6	10.8	16.2





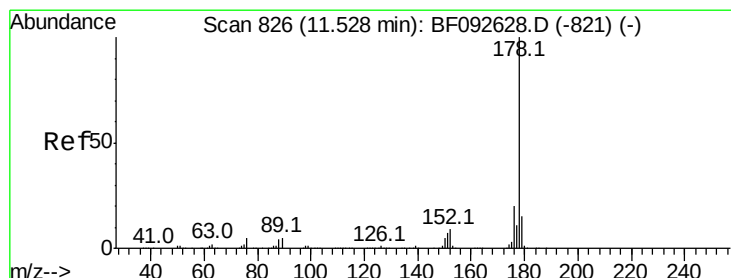
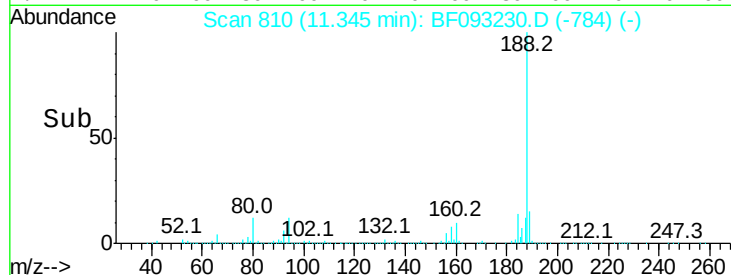
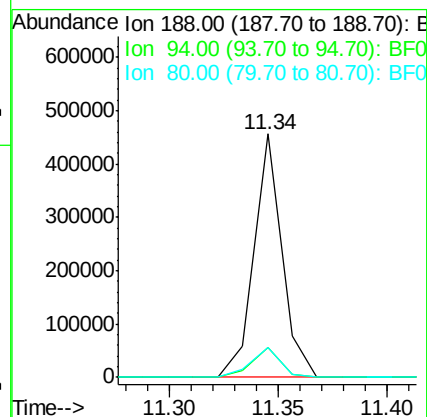
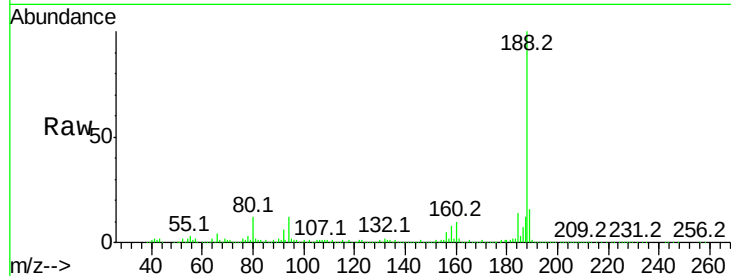
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

Tot Ion	Ratio	Resp	Lower	Upper
188	100	409800		
94	12.2	10.0	15.0	
80	12.4	11.2	16.8	

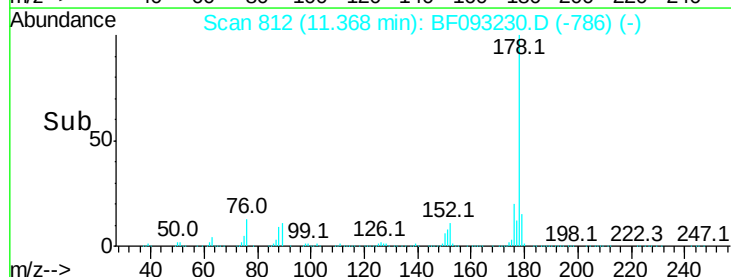
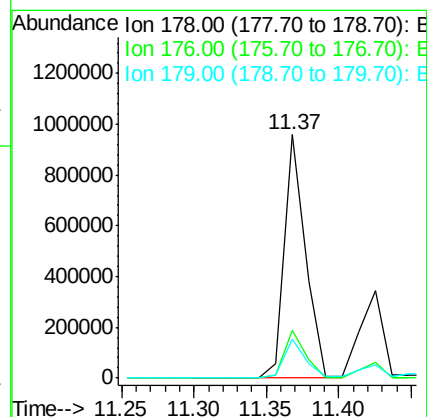
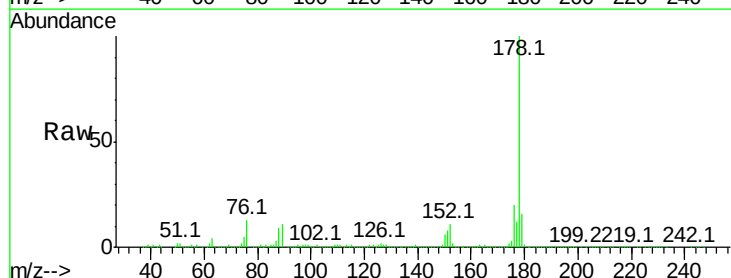
Manual Integrations
APPROVED

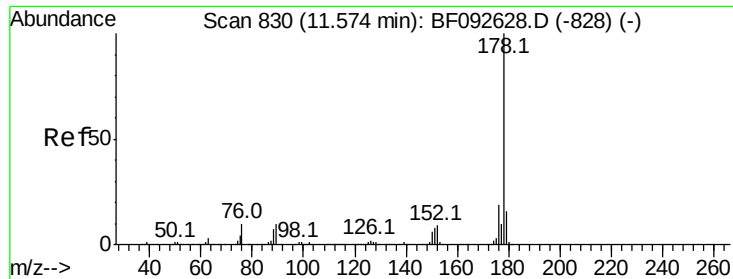
mohammad
2/28/2017 2:35:41 PM



#70
Phenanthrene
Concen: 40.98 ng
RT: 11.37 min Scan# 812
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	962235		
176	19.9	16.6	25.0	
179	16.0	12.8	19.2	





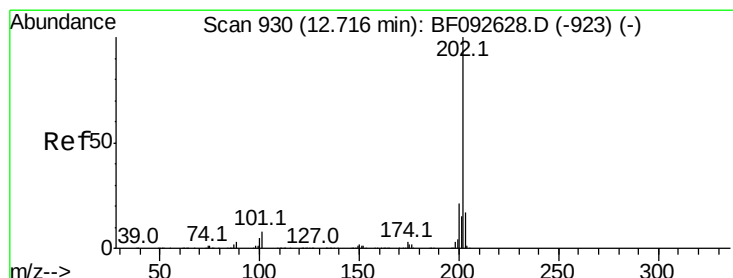
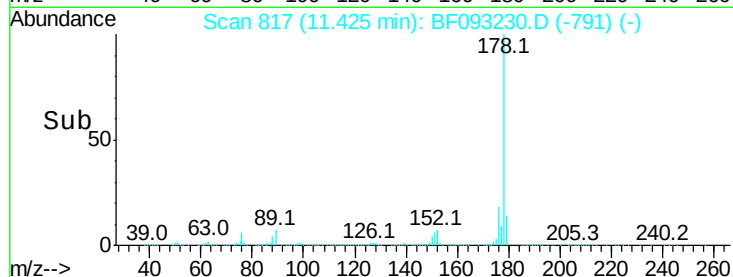
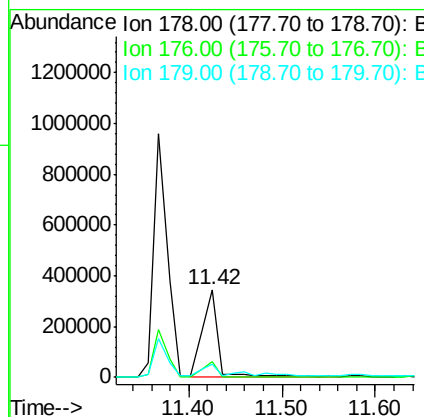
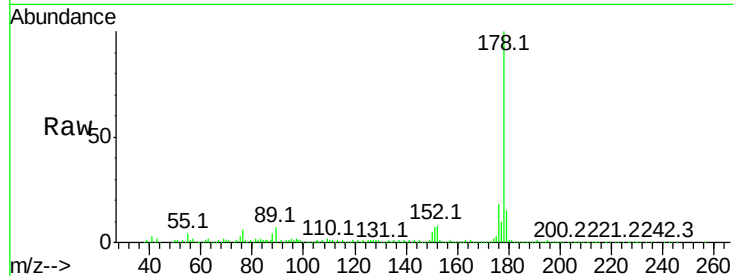
#71
 Anthracene
 Concen: 16.41 ng
 RT: 11.42 min Scan# 817
 Delta R.T. 0.00 min
 Lab File: BF093230.D
 Acq: 28 Feb 2017 3:05

Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.9	23.9
179	15.2	13.2	19.8

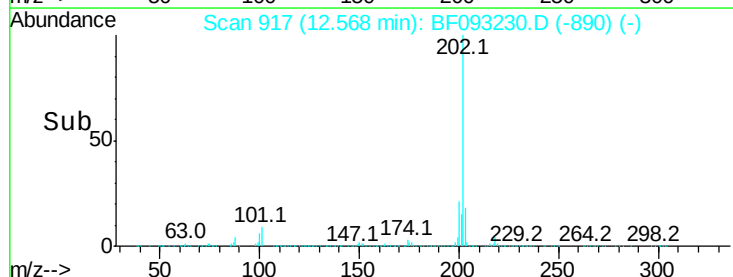
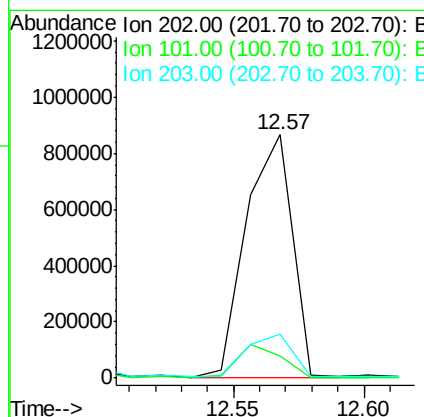
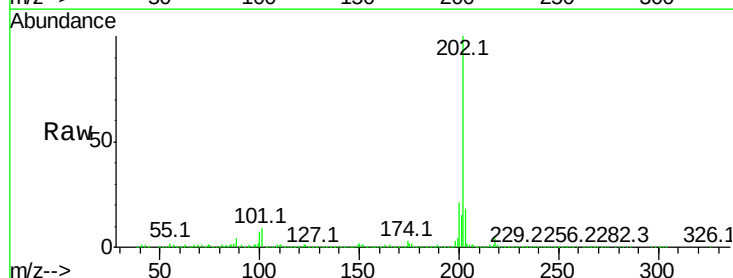
Manual Integrations
 APPROVED

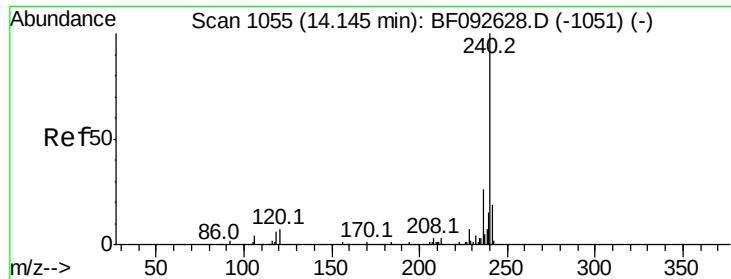
mohammad
 2/28/2017 2:35:41 PM



#74
 Fluoranthene
 Concen: 43.85 ng
 RT: 12.57 min Scan# 917
 Delta R.T. 0.01 min
 Lab File: BF093230.D
 Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	34.6
203	17.9	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. 0.01 min

Lab File: BF093230.D

Acq: 28 Feb 2017 3:05

Instrument :

BNA_F

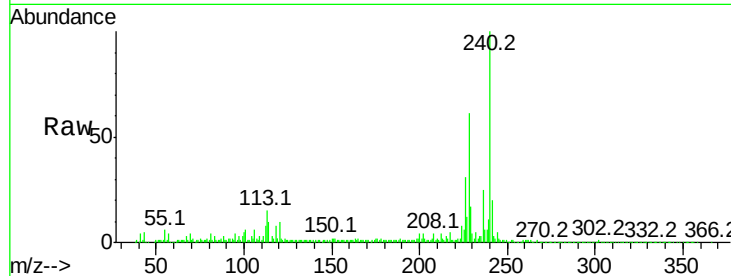
ClientSampleId :

E2B21-BASE-1

Tot Ion:	240	Resp:	321358
Ion Ratio	Lower	Upper	
240	100		
120	9.6	12.9	19.3#
236	25.3	20.9	31.3

Manual Integrations
APPROVED

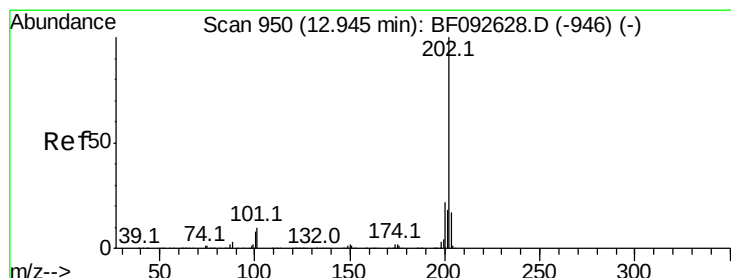
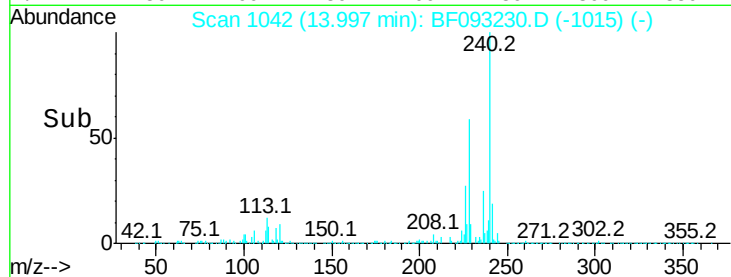
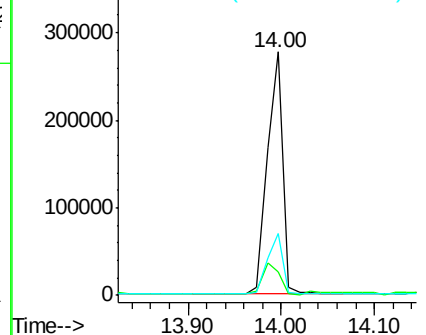
mohammad
2/28/2017 2:35:41 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 78.83 ng

RT: 12.80 min Scan# 937

Delta R.T. 0.01 min

Lab File: BF093230.D

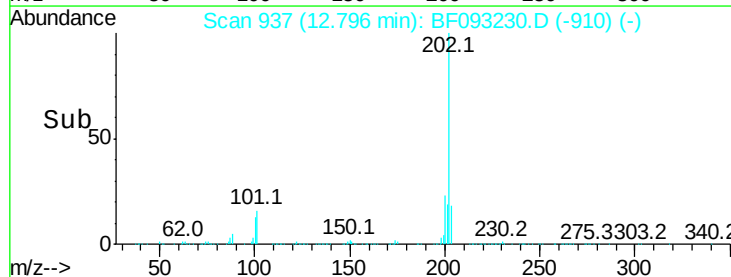
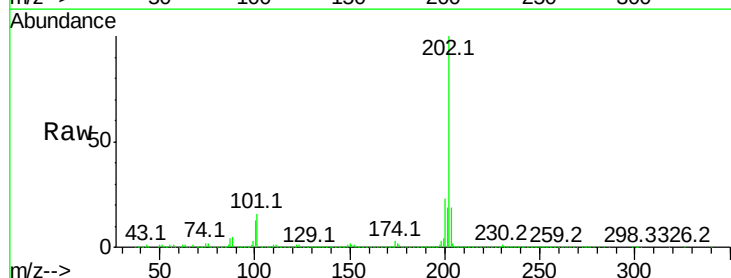
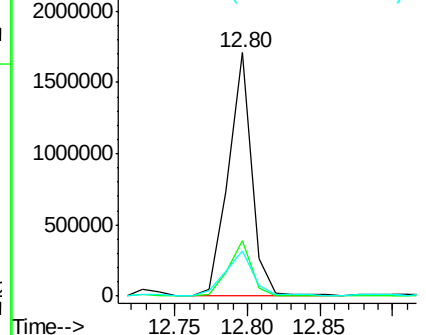
Acq: 28 Feb 2017 3:05

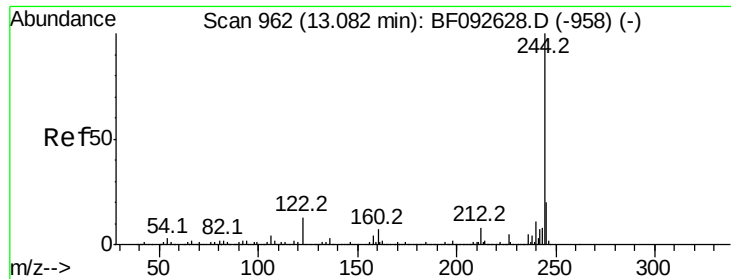
Tgt Ion:	202	Resp:	1895911
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.7	26.5
203	18.5	14.7	22.1

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





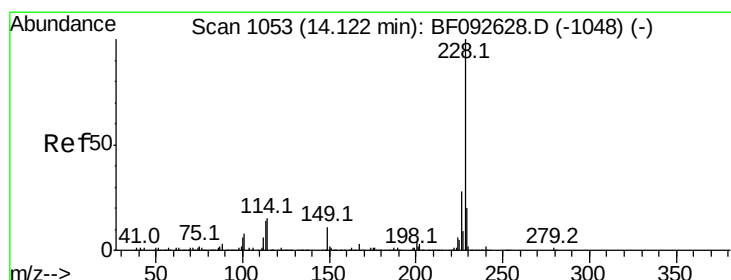
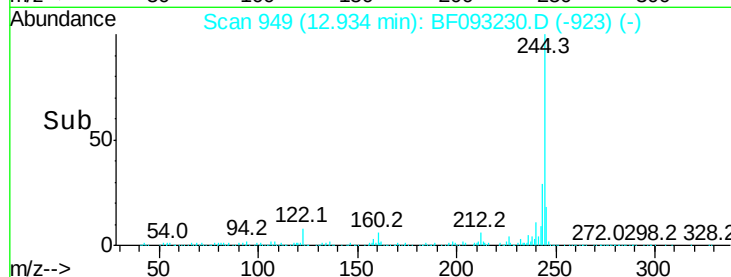
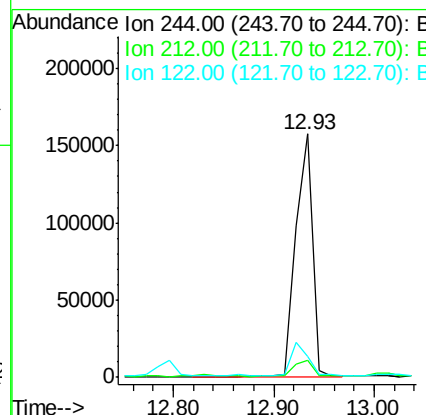
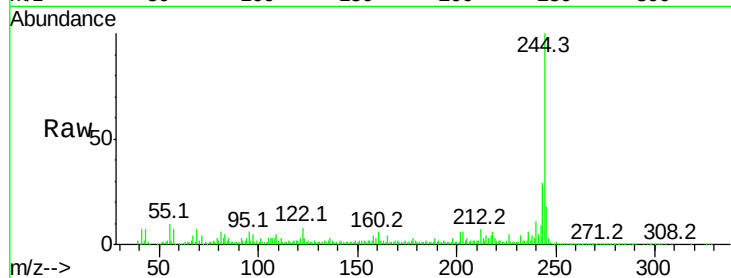
#78
 Terphenyl-d14
 Concen: 13.27 ng
 RT: 12.93 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: BF093230.D
 Acq: 28 Feb 2017 3:05

Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-1

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.2	9.2
122	8.4	11.4	17.2

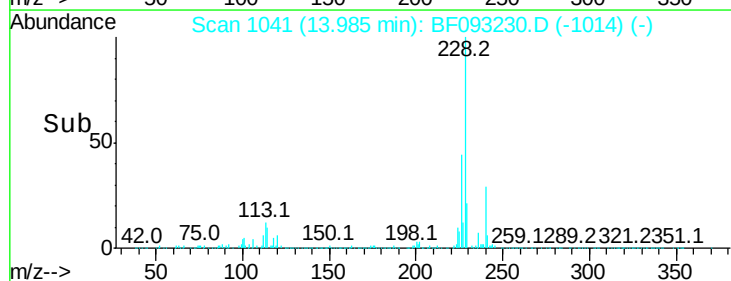
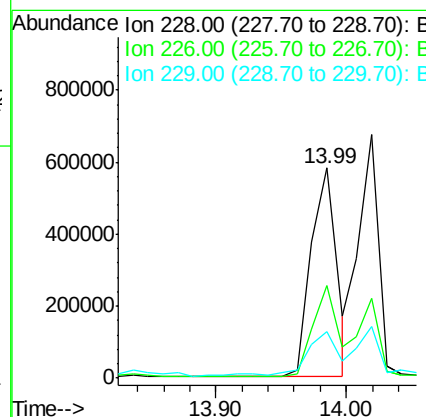
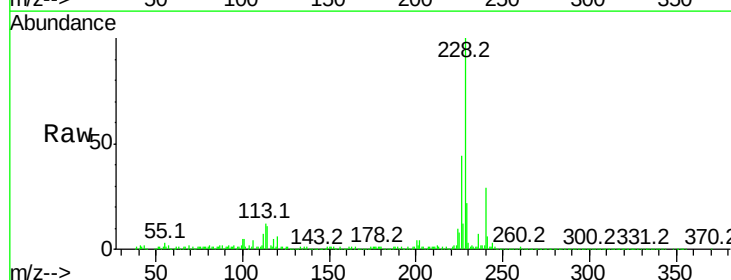
Manual Integrations
 APPROVED

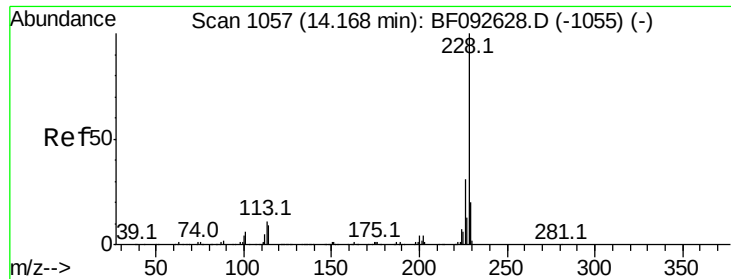
mohammad
 2/28/2017 2:35:41 PM



#80
 Benzo(a)anthracene
 Concen: 40.28 ng
 RT: 13.99 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: BF093230.D
 Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	44.1	22.4	33.6
229	21.9	16.2	24.4





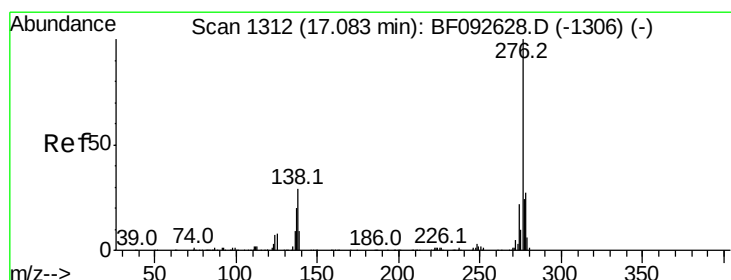
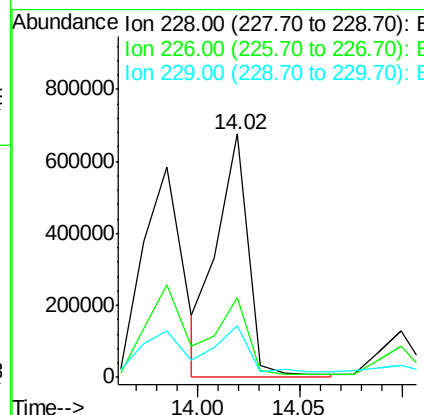
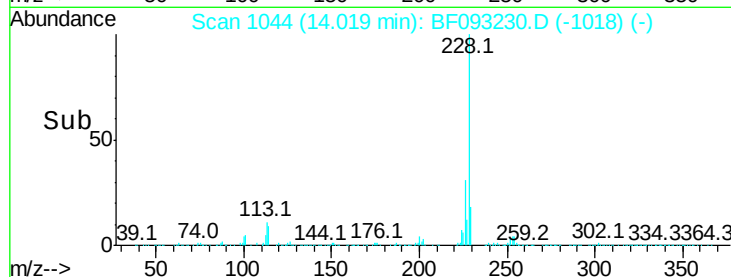
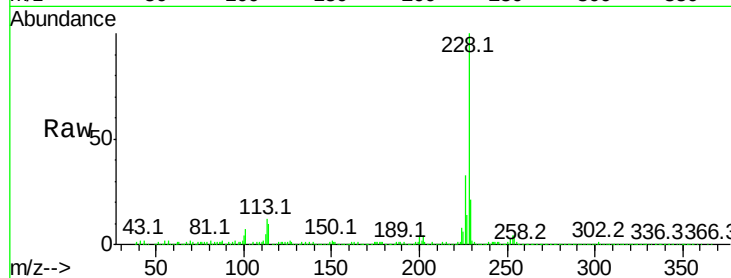
#82
Chrysene
Concen: 39.79 ng/ml
RT: 14.02 min Scan# 1044
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.5	25.4	38.0
229	21.1	16.2	24.2

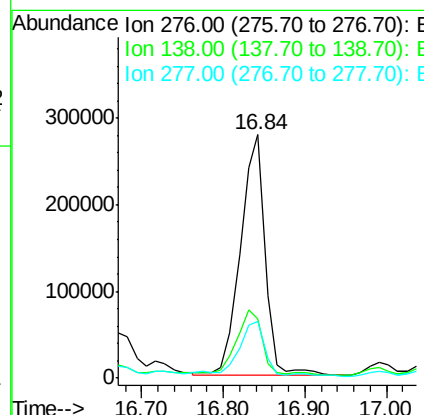
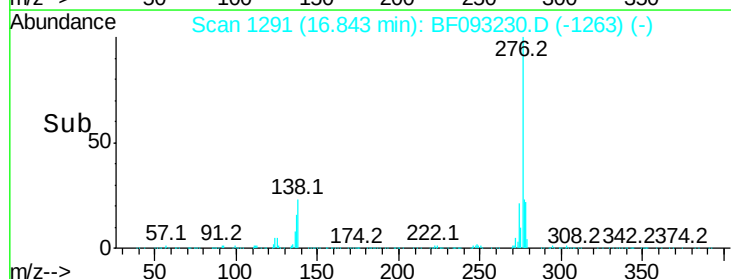
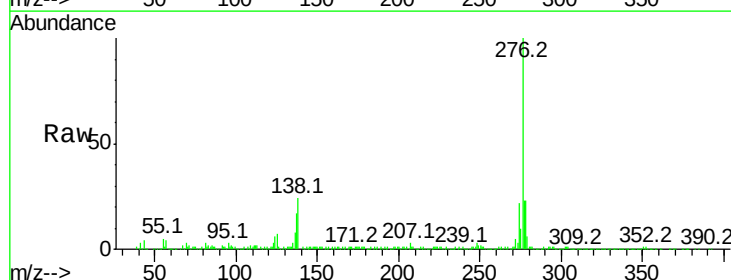
Manual Integrations
APPROVED

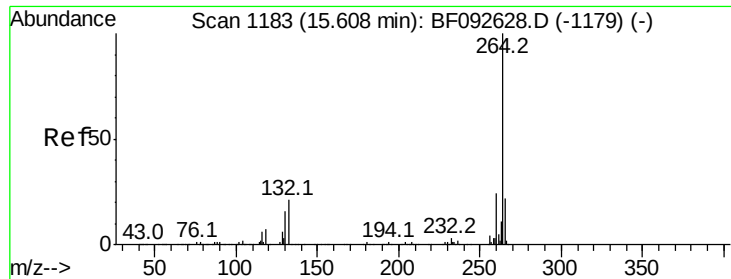
mohammad
2/28/2017 2:35:41 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 40.53 ng/ml
RT: 16.84 min Scan# 1291
Delta R.T. 0.02 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.2	21.8	32.6
277	23.6	20.2	30.4





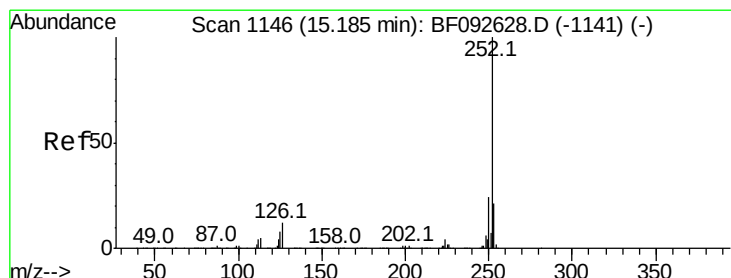
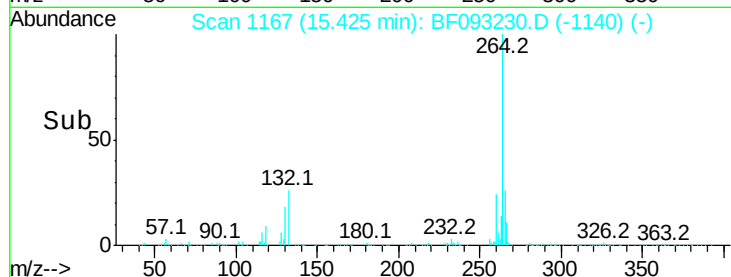
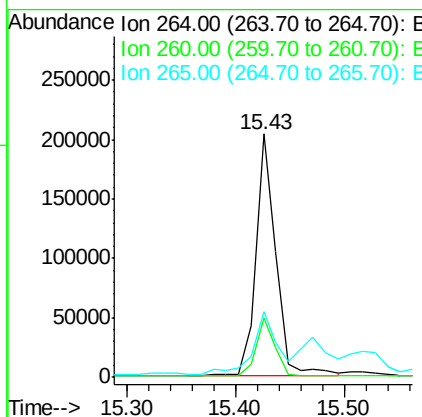
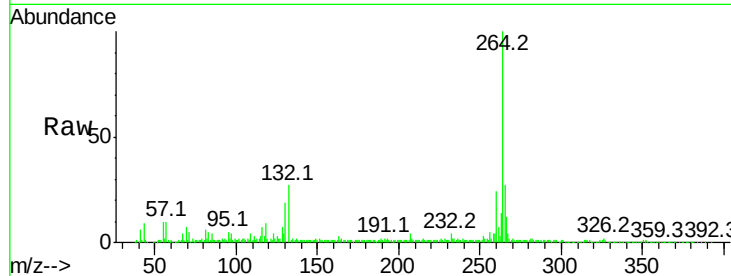
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1167
Delta R.T. 0.01 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	27.1	17.4	26.0

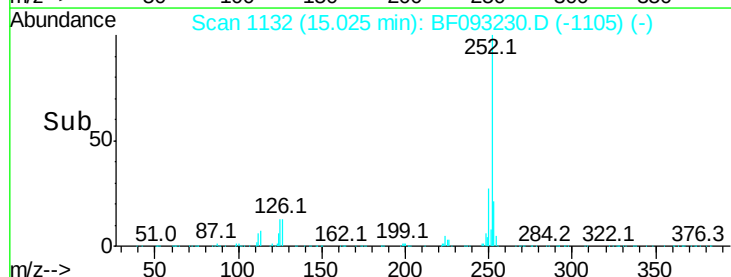
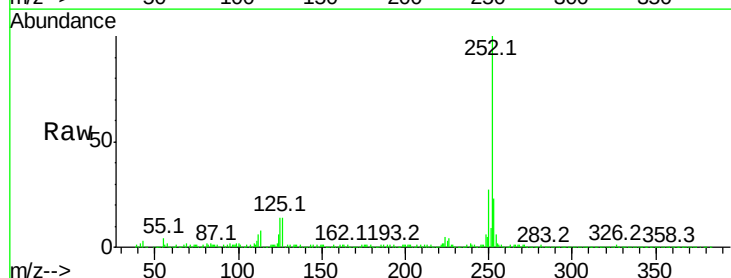
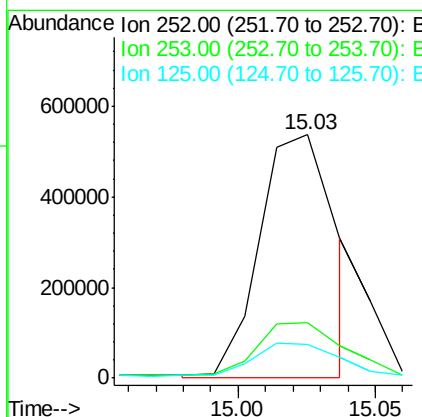
Manual Integrations
APPROVED

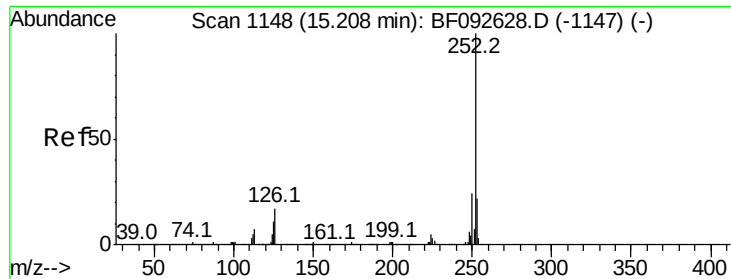
mohammad
2/28/2017 2:35:41 PM



#87
Benzo(b)fluoranthene
Concen: 59.78 ng m
RT: 15.03 min Scan# 1132
Delta R.T. 0.01 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.4
125	14.0	9.8	14.6





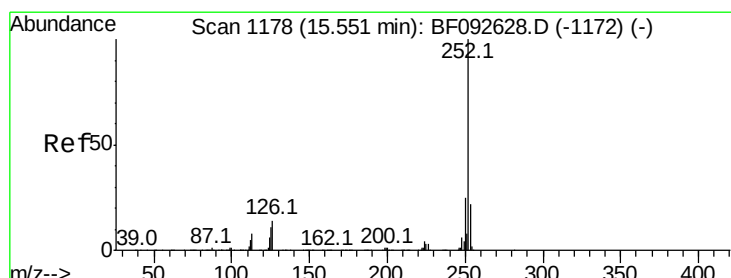
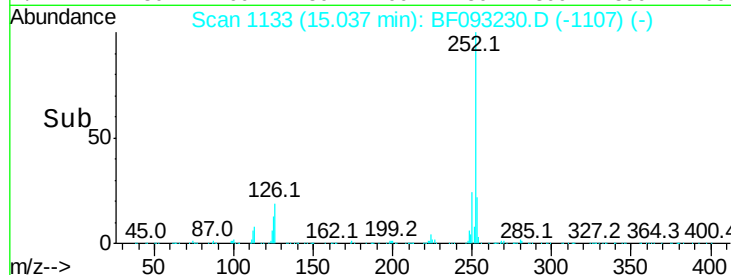
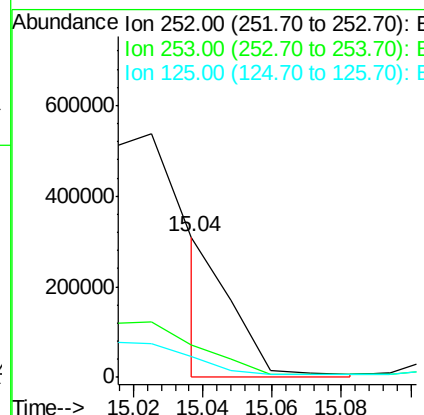
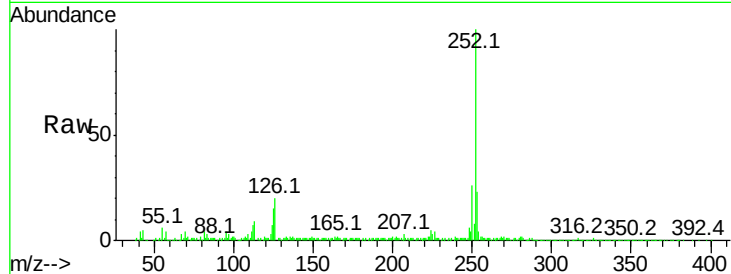
#88
Benzo(k)fluoranthene
Concen: 9.30 ng m
RT: 15.04 min Scan# 1133
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.5	27.7
125	15.0	8.9	13.3

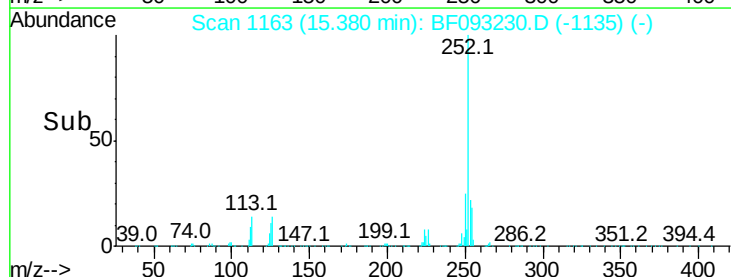
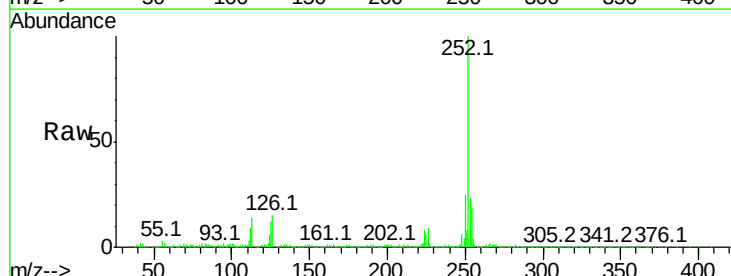
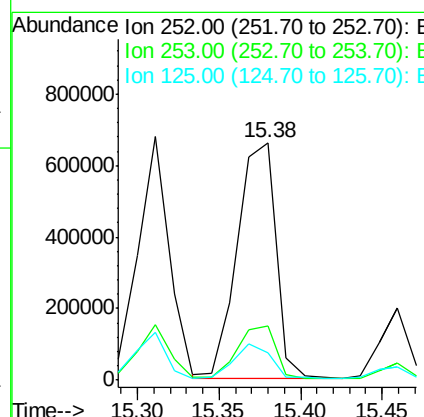
Manual Integrations
APPROVED

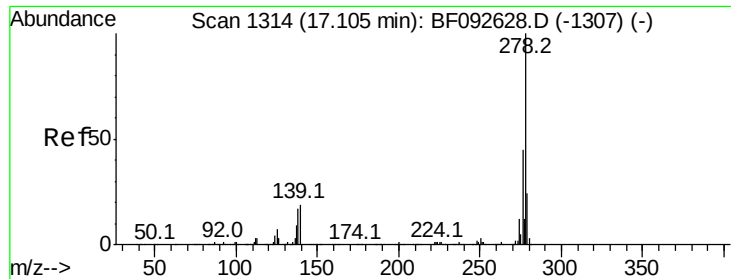
mohammad
2/28/2017 2:35:41 PM



#89
Benzo(a)pyrene
Concen: 72.51 ng
RT: 15.38 min Scan# 1163
Delta R.T. 0.02 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	11.6	10.0	15.0





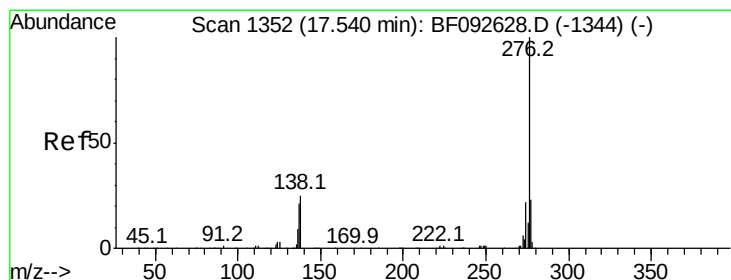
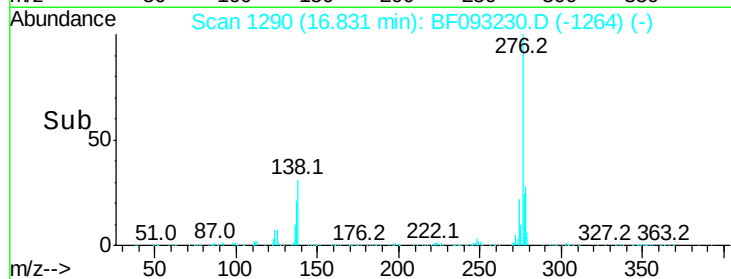
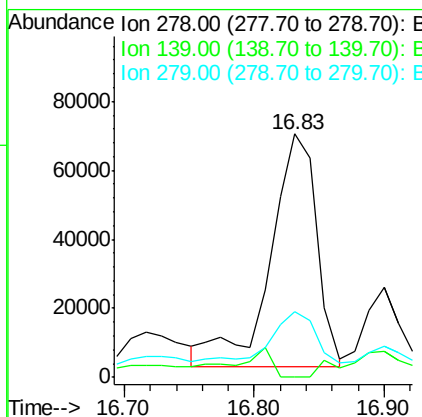
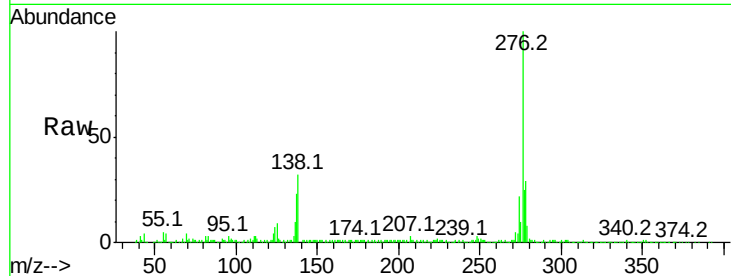
#90
Dibenzo(a,h)anthracene
Concen: 14.05 ng/mL
RT: 16.83 min Scan# 1290
Delta R.T. 0.00 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	27.0	19.8	29.6

Manual Integrations
APPROVED

mohammad
2/28/2017 2:35:41 PM



#91
Benzo(g,h,i)perylene
Concen: 66.74 ng/mL
RT: 17.27 min Scan# 1328
Delta R.T. 0.02 min
Lab File: BF093230.D
Acq: 28 Feb 2017 3:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.2	28.8
138	30.2	16.0	24.0#

