

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094156.D
 Acq On : 4 Apr 2017 8:57
 Operator : SJ/MA
 Sample : I2510-08
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-M11-ESW

Manual Integrations
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Quant Time: Apr 04 11:34:43 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	167782	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	640677	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	248033	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	368445	20.00	ng	-0.01
75) Chrysene-d12	14.62	240	302592	20.00	ng	0.00
86) Perylene-d12	16.25	264	218306	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	964422	97.09	ng	0.00
7) Phenol-d6	5.50	99	1212742	98.69	ng	-0.01
23) Nitrobenzene-d5	6.54	82	661099	58.89	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	169443	86.45	ng	-0.01
44) 2-Fluorobiphenyl	8.72	172	1209060	74.35	ng	-0.02
78) Terphenyl-d14	13.34	244	751837	55.69	ng	-0.01
Target Compounds						Qvalue
11) bis(2-Chloroethyl)ether	5.59	93	33677	3.08	ng	94
14) 1,2-Dichlorobenzene	6.09	146	25105	2.20	ng	96
31) Naphthalene	7.42	128	543548	17.64	ng	100
37) 2-Methylnaphthalene	8.26	142	164713	8.02	ng	98
45) 1,1'-Biphenyl	8.83	154	94199	4.71	ng	98
48) Acenaphthylene	9.36	152	215458	8.28	ng	99
49) Dimethylphthalate	9.21	163	104347	5.92	ng	# 99
51) Acenaphthene	9.57	154	102991	6.78	ng	98
57) Fluorene	10.21	166	91646	5.35	ng	# 96
70) Phenanthrene	11.39	178	871516	42.52	ng	98
71) Anthracene	11.45	178	307975	14.59	ng	98
74) Fluoranthene	12.86	202	882366	42.04	ng	99
77) Pvrene	13.14	202	1656642	75.44	ng	100
80) Benzo(a)anthracene	14.61	228	600205m	34.02	ng	
82) Chrysene	14.65	228	619832m	37.85	ng	
85) Indeno(1,2,3-cd)pyrene	17.60	276	354495	25.00	ng	95
87) Benzo(b)fluoranthene	15.84	252	690110m	51.57	ng	
88) Benzo(k)fluoranthene	15.87	252	208733m	15.94	ng	
89) Benzo(a)pvrene	16.20	252	677533	54.98	ng	99
90) Dibenzo(a,h)anthracene	17.61	278	71902m	6.89	ng	
91) Benzo(g,h,i)perylene	18.00	276	498781	47.43	ng	99

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

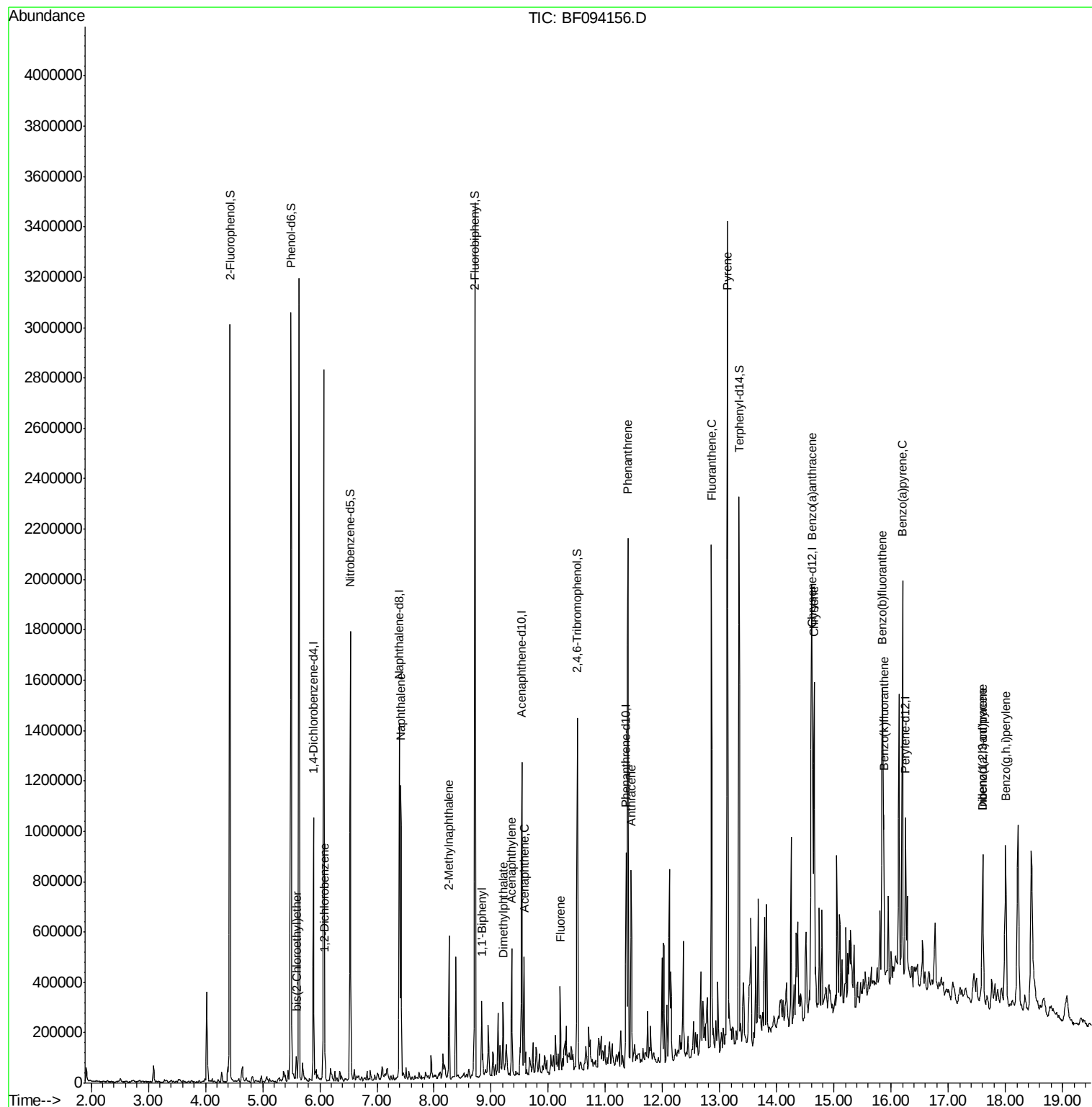
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
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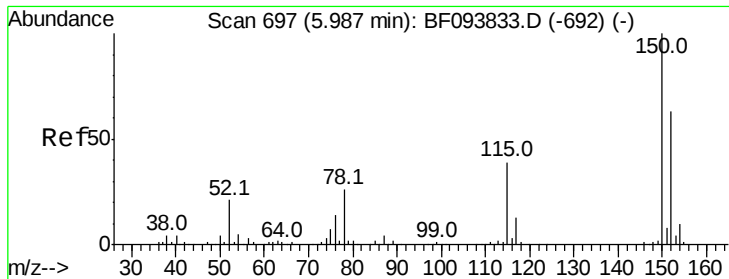
Instrument :
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ClientSampleId :
E2-M11-ESW

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#1

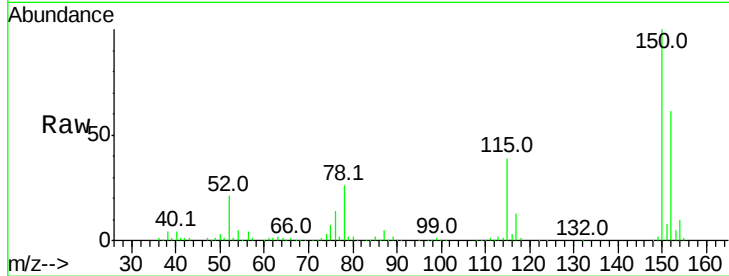
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Instrument :
BNA_F
ClientSampleId :
E2-M11-ESW

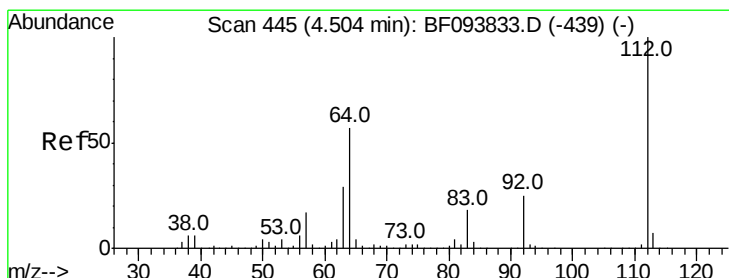
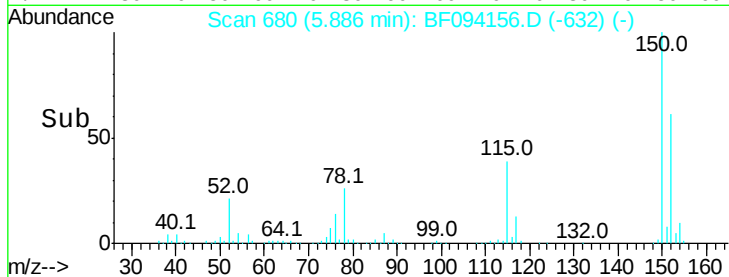
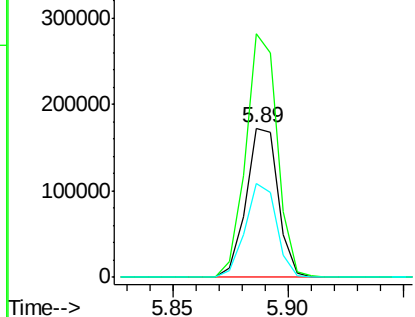
Tot Ion	Ratio	Lower	Upper
152	100		
150	163.4	126.2	189.2
115	63.2	52.2	78.2

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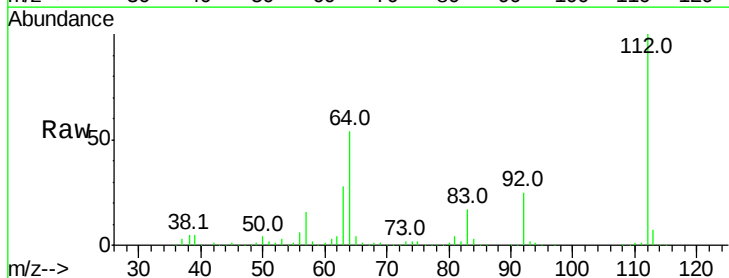
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



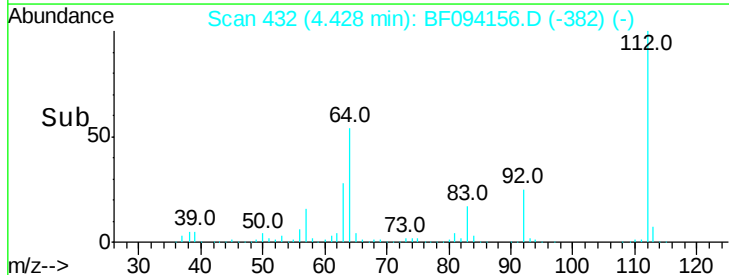
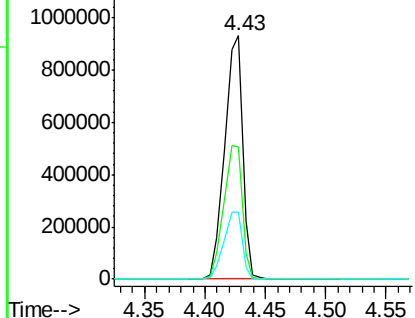
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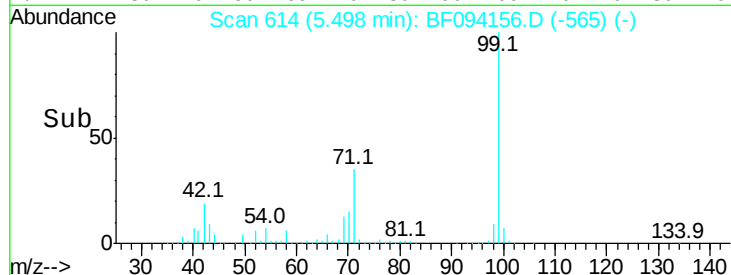
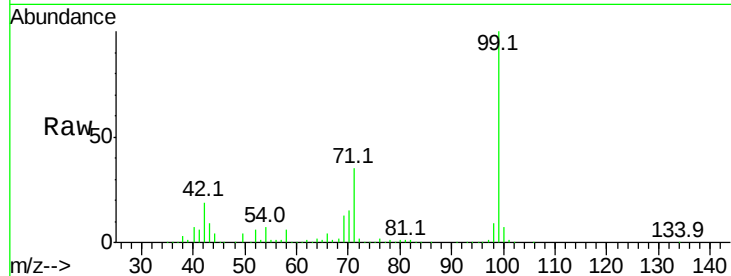
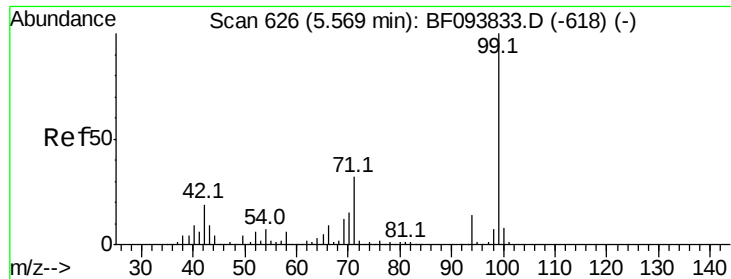
2-Fluorophenol
Concen: 97.09 ng
RT: 4.43 min Scan# 432
Delta R.T. -0.01 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.2	46.0	69.0
63	27.5	23.4	35.0



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: 98.69 ng

RT: 5.50 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Tot Ion: 99 Resp: 1212742

Ion Ratio Lower Upper

99 100

42 18.9 13.5 20.3

71 34.9 24.5 36.7

Instrument :

BNA_F

ClientSampled :

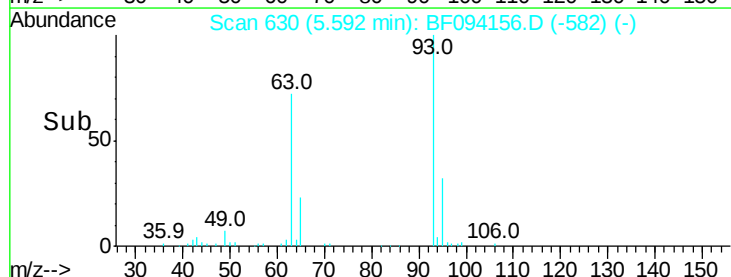
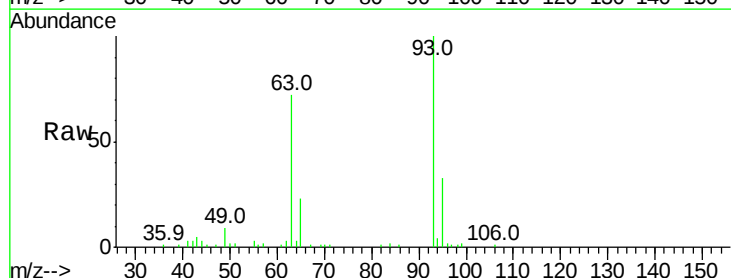
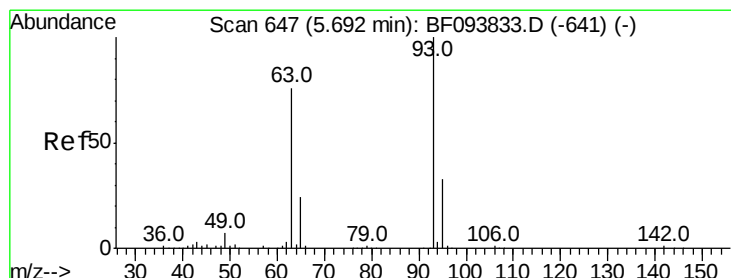
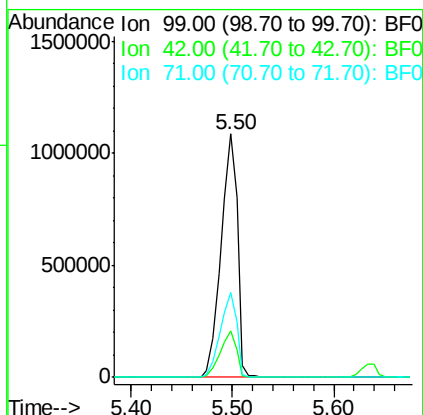
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#11

bis(2-Chloroethyl)ether

Concen: 3.08 ng

RT: 5.59 min Scan# 630

Delta R.T. -0.02 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

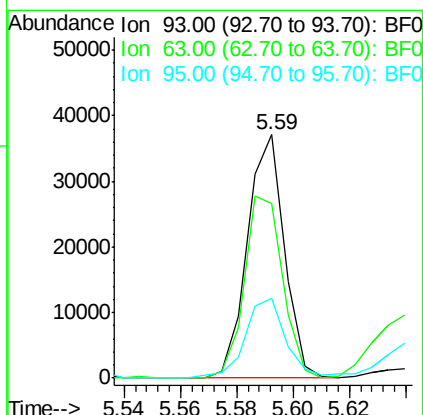
Tgt Ion: 93 Resp: 33677

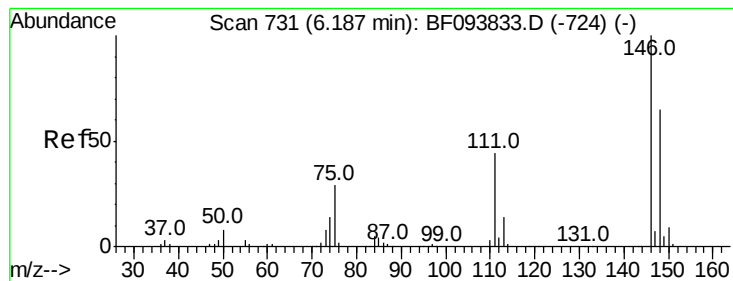
Ion Ratio Lower Upper

93 100

63 71.9 59.2 99.2

95 32.8 12.8 52.8





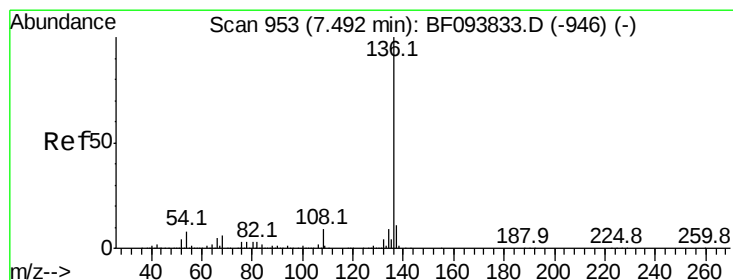
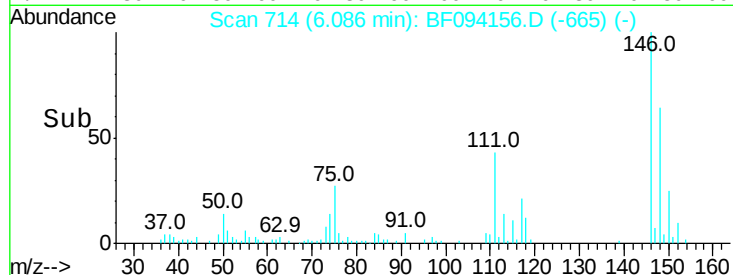
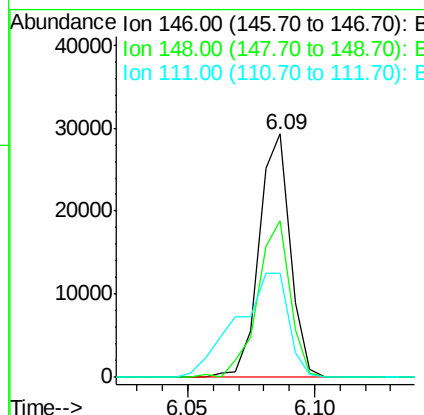
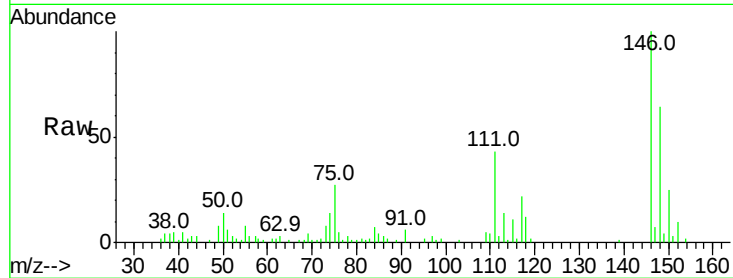
#14
 1,2-Dichlorobenzene
 Concen: 2.20 ng
 RT: 6.09 min Scan# 714
 Delta R.T. -0.01 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Instrument :
 BNA_F
 ClientSampleId :
 E2-M11-ESW

Tot Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.4	75.6
111	42.5	38.2	57.4

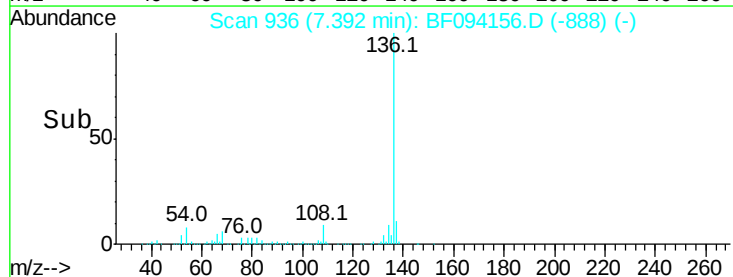
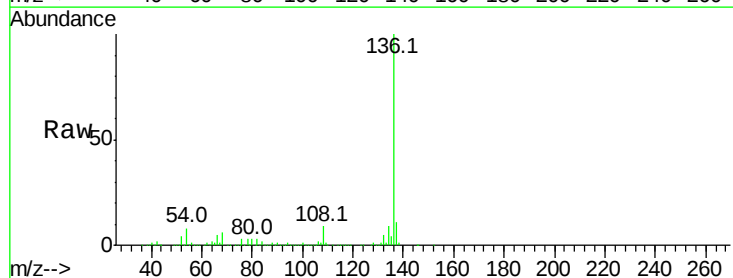
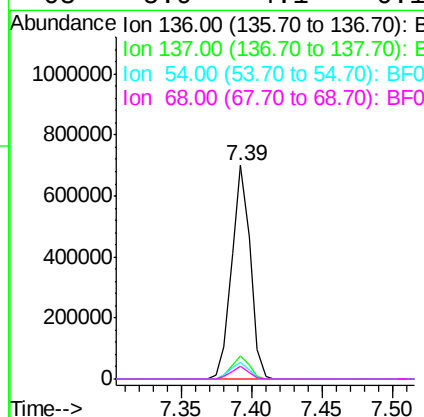
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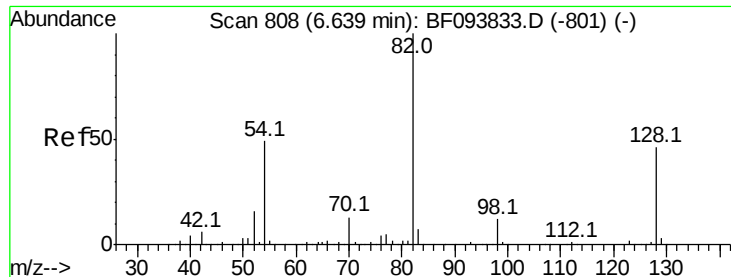
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#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 7.39 min Scan# 936
 Delta R.T. -0.02 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	7.7	4.9	7.3#
68	5.9	4.1	6.1





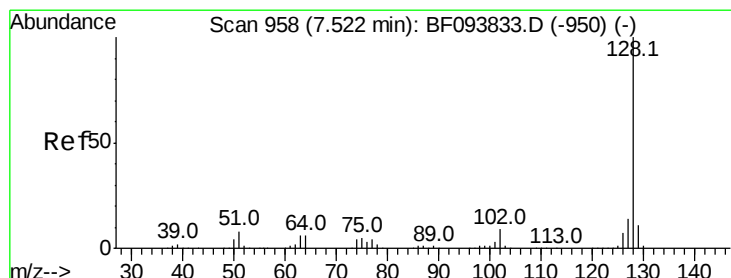
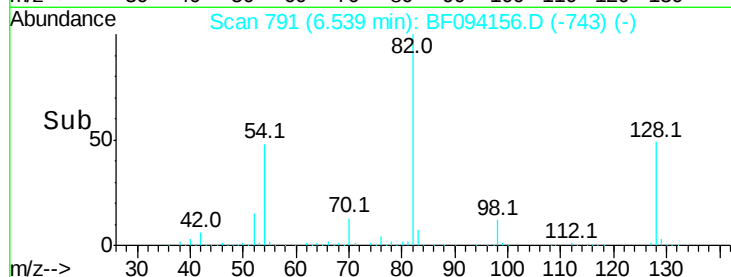
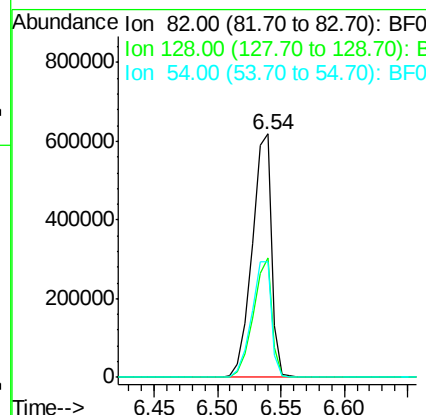
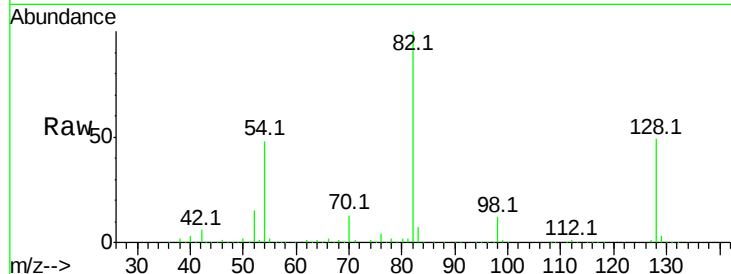
#23
Nitrobenzene-d5
Concen: 58.89 ng
RT: 6.54 min Scan# 791
Delta R.T. -0.02 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Instrument :
BNA_F
ClientSampleId :
E2-M11-ESW

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.9	34.0	51.0
54	47.6	42.2	63.2

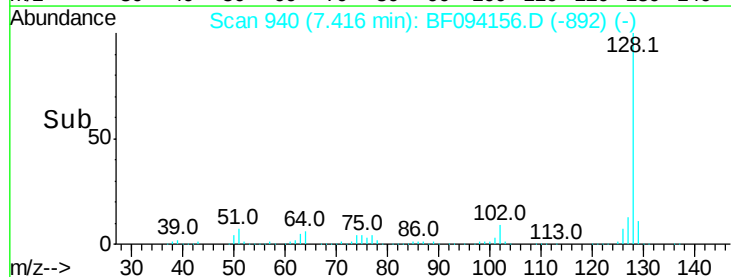
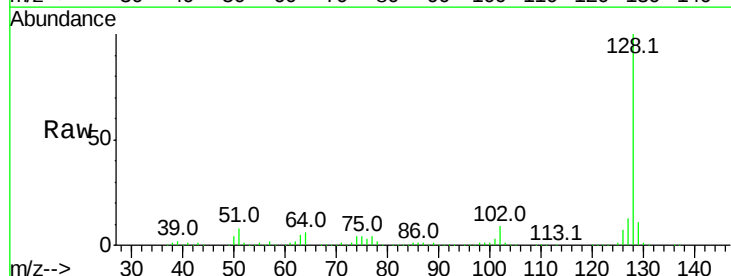
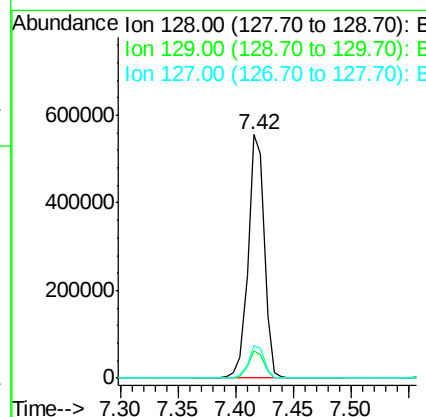
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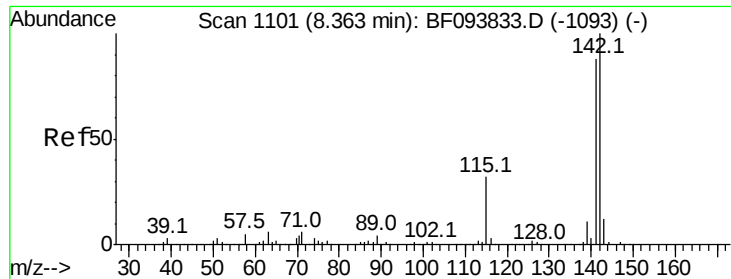
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#31
Naphthalene
Concen: 17.64 ng
RT: 7.42 min Scan# 940
Delta R.T. -0.02 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	13.3	10.8	16.2





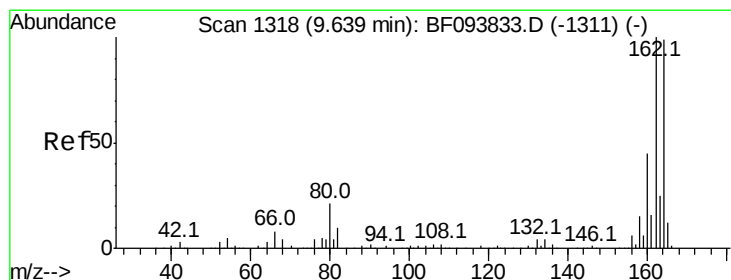
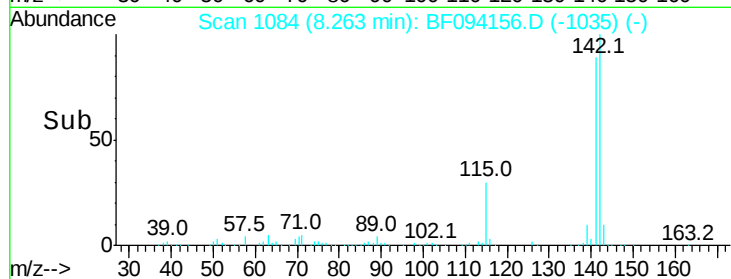
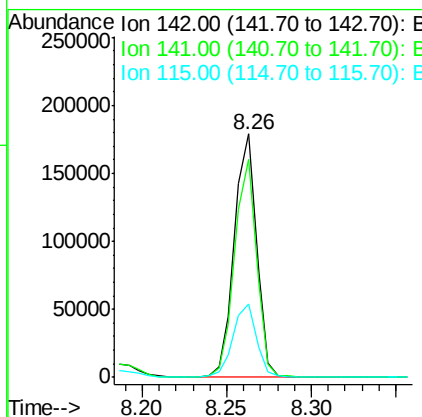
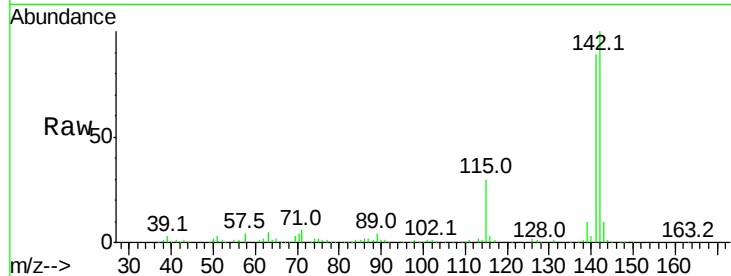
#37
 2-Methylnaphthalene
 Concen: 8.02 ng
 RT: 8.26 min Scan# 1084
 Delta R.T. -0.01 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Instrument :
 BNA_F
 ClientSampleId :
 E2-M11-ESW

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.3	106.9
115	30.0	27.1	40.7

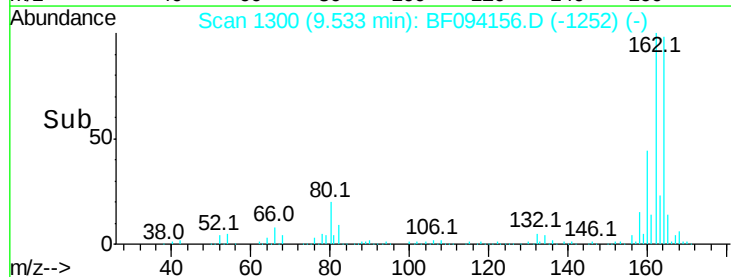
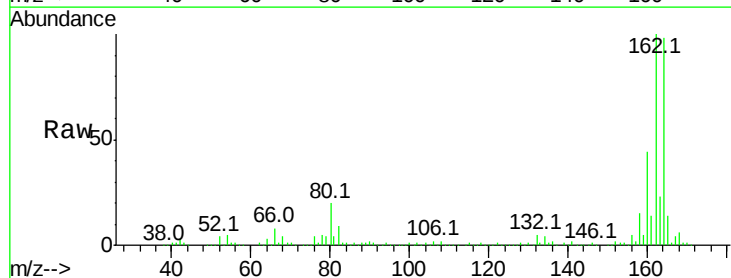
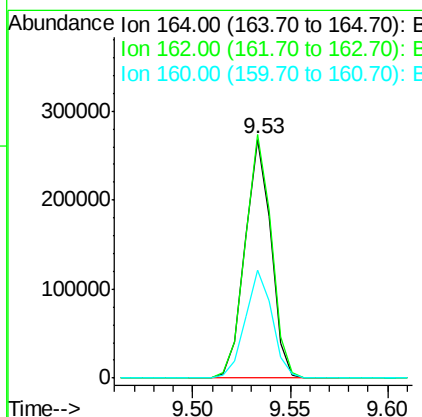
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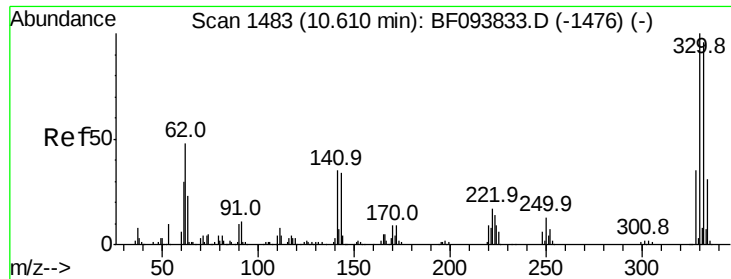
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.6	123.8
160	45.0	36.2	54.2





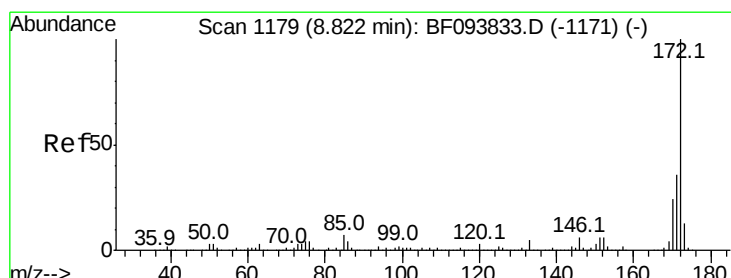
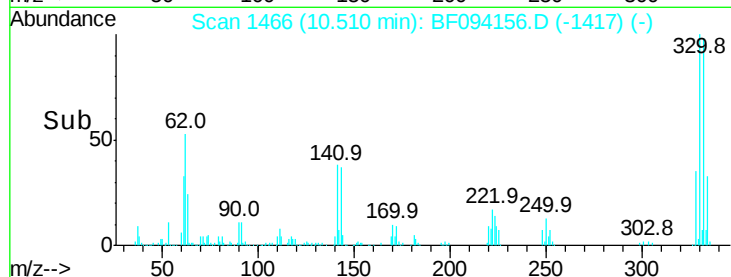
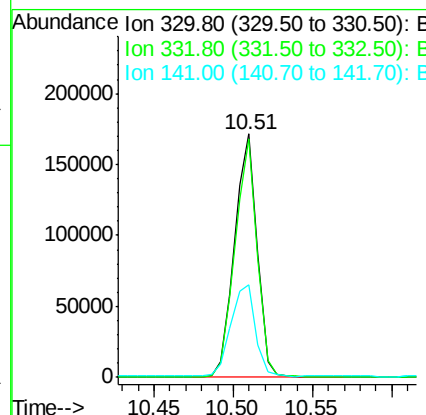
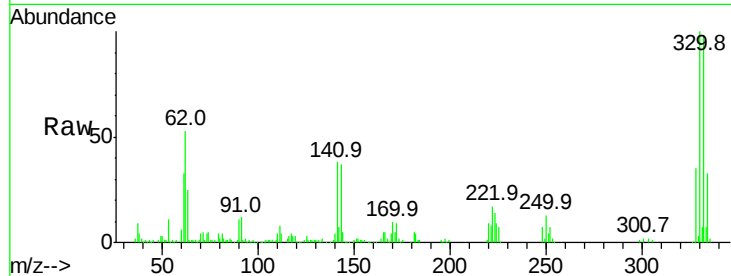
#41
 2,4,6-Tribromophenol
 Concen: 86.45 ng
 RT: 10.51 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Instrument :
 BNA_F
 ClientSampleId :
 E2-M11-ESW

Tot Ion	Ratio	Resp	Lower	Upper
330	100	169443		
332	96.1	76.6	115.0	
141	41.0	31.4	47.2	

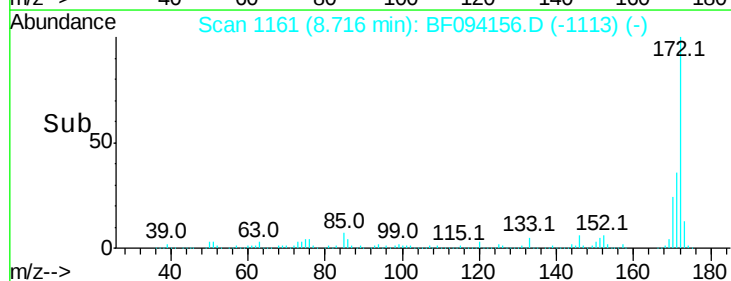
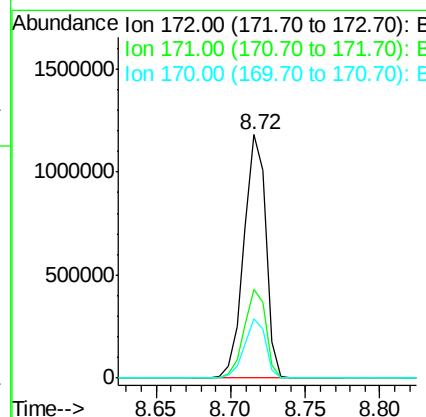
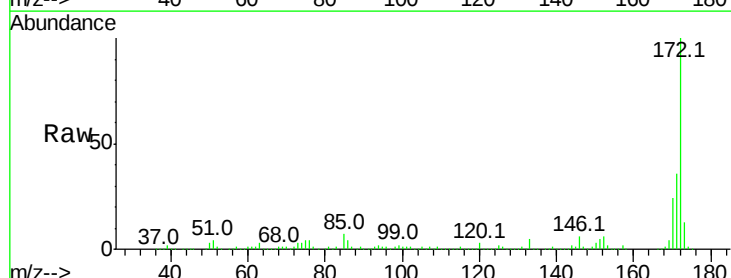
Manual Integrations
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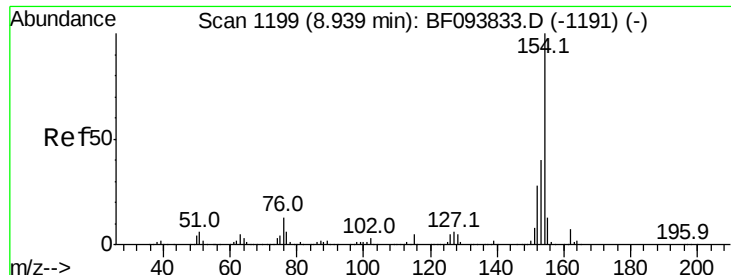
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#44
 2-Fluorobiphenyl
 Concen: 74.35 ng
 RT: 8.72 min Scan# 1161
 Delta R.T. -0.02 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1209060		
171	36.3	29.6	44.4	
170	24.3	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 4.71 ng

RT: 8.83 min Scan# 1181

Delta R.T. -0.02 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Instrument :

BNA_F

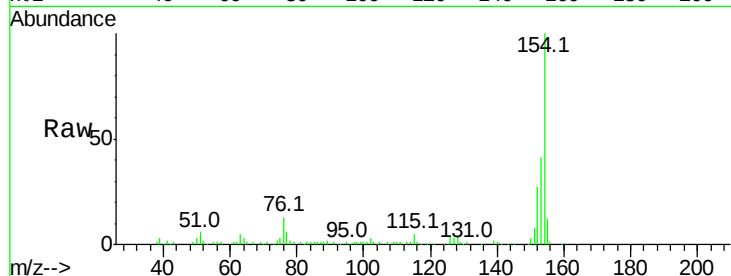
ClientSampled :

E2-M11-ESW

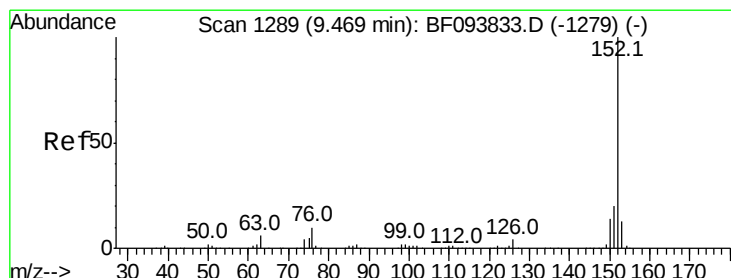
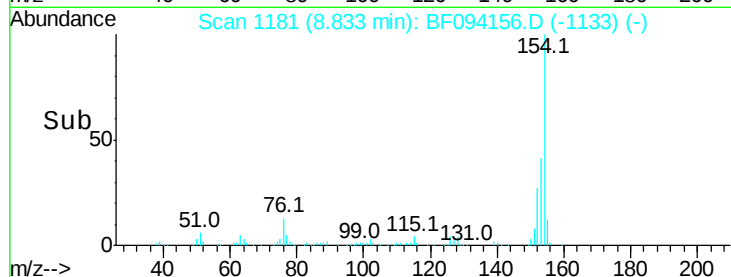
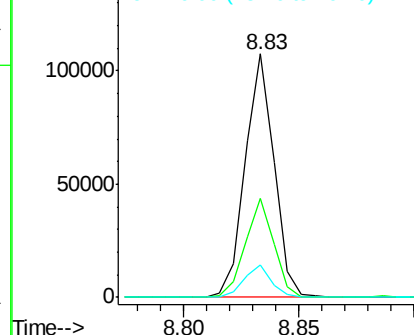
Tot Ion:	154	Resp:	94199
Ion Ratio	Lower	Upper	
154	100		
153	40.7	21.2	61.2
76	13.3	0.0	29.9

Manual Integrations
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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: 8.28 ng

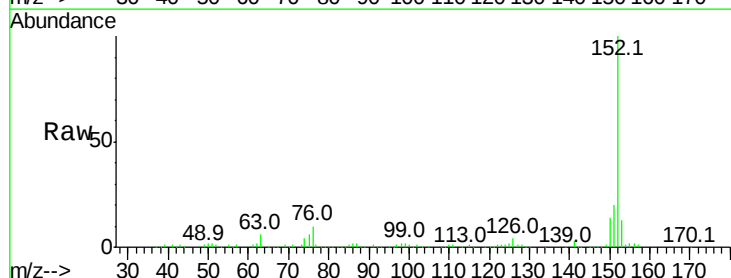
RT: 9.36 min Scan# 1270

Delta R.T. -0.02 min

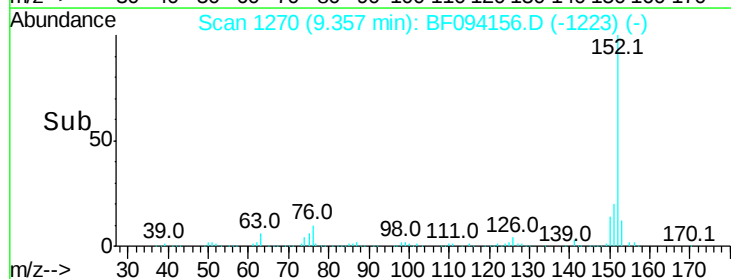
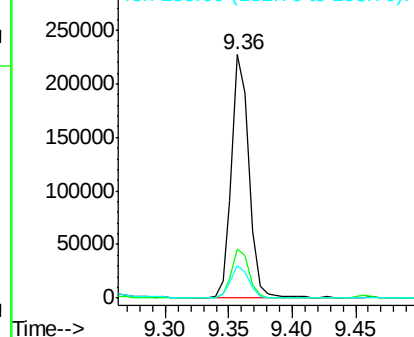
Lab File: BF094156.D

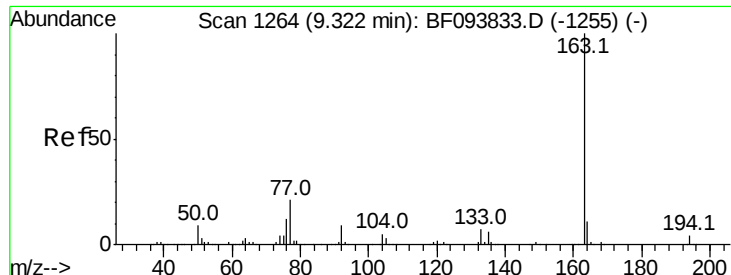
Acq: 4 Apr 2017 8:57

Tgt Ion:	152	Resp:	215458
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.8	25.2
153	13.4	10.8	16.2



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





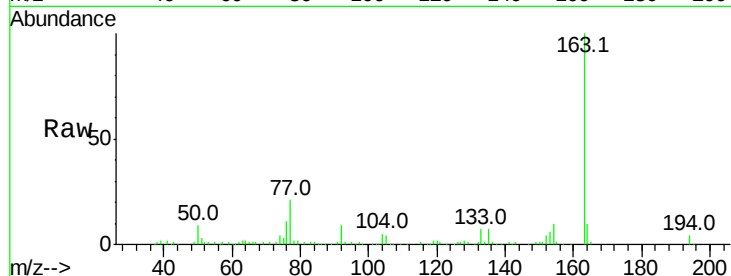
#49
Dimethylphthalate
Concen: 5.92 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.04 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Instrument :
BNA_F
ClientSampleId :
E2-M11-ESW

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.0	2.6	4.0#	
164	10.1	8.4	12.6	

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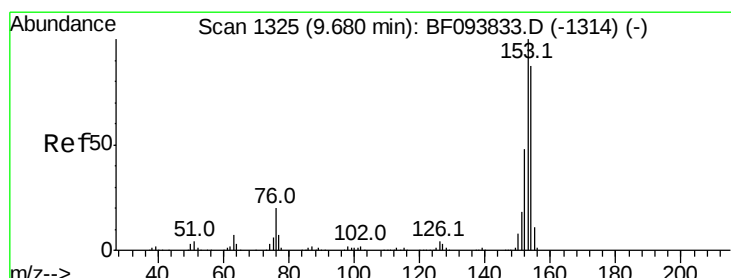
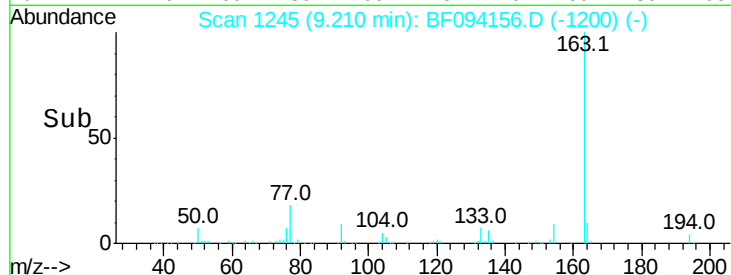
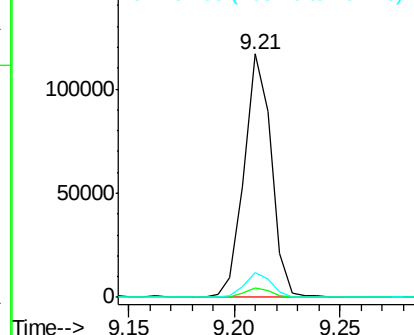


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 6.78 ng
RT: 9.57 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

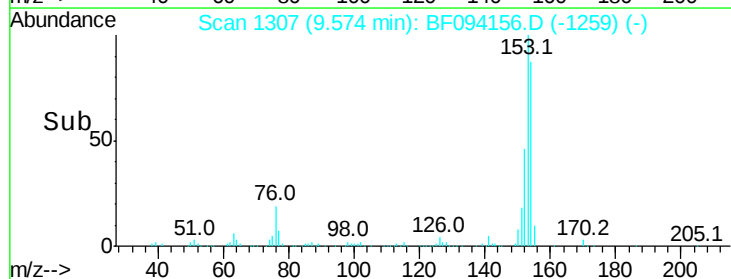
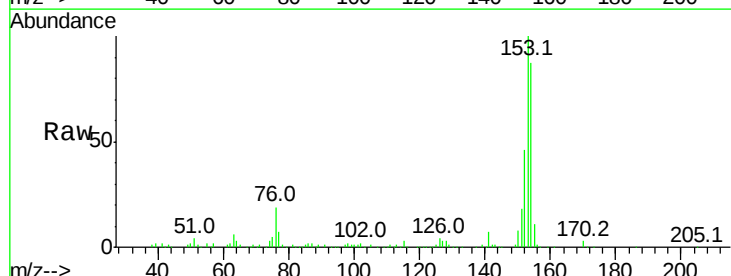
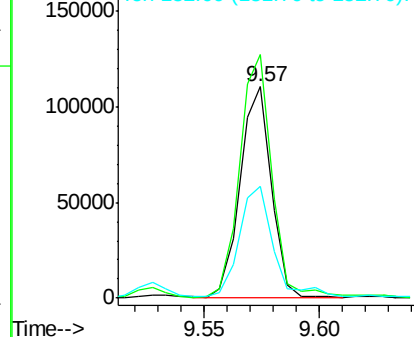
Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	115.3	90.5	135.7	
152	52.9	43.6	65.4	

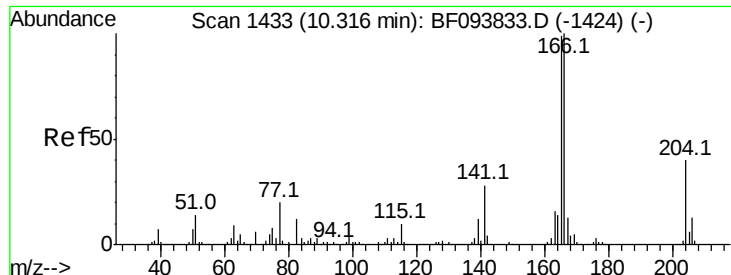
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





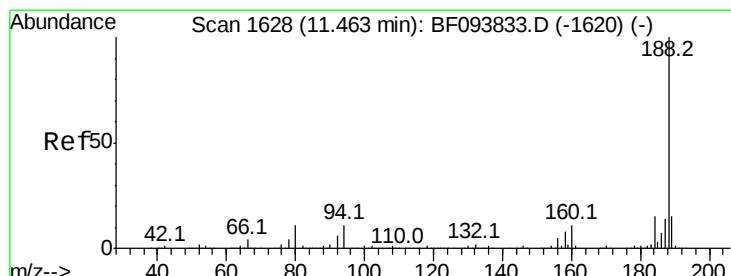
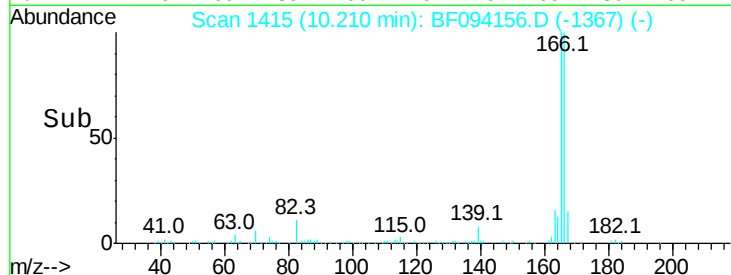
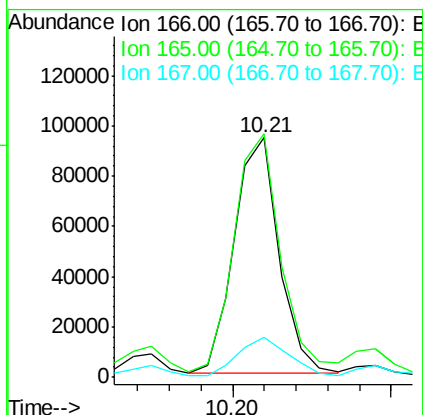
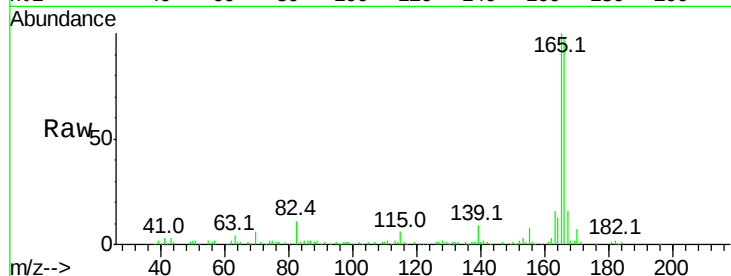
#57
Fluorene
 Concen: 5.35 ng
 RT: 10.21 min Scan# 1415
 Delta R.T. -0.02 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Instrument :
 BNA_F
 ClientSampleId :
 E2-M11-ESW

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	101.8	78.8	118.2	
167	16.6	10.6	16.0	

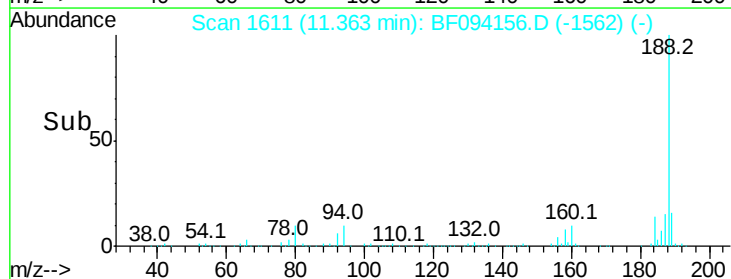
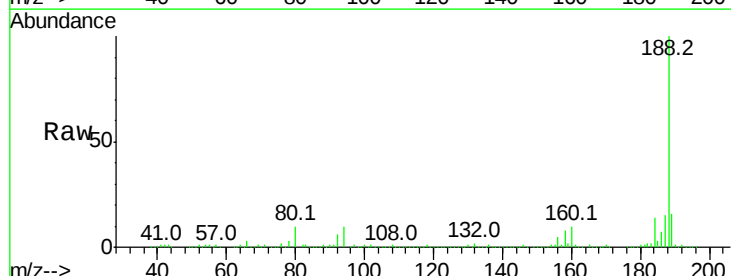
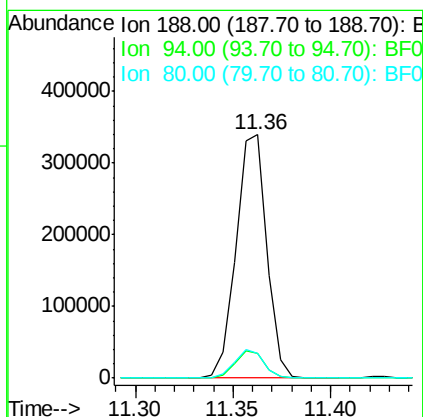
Manual Integrations
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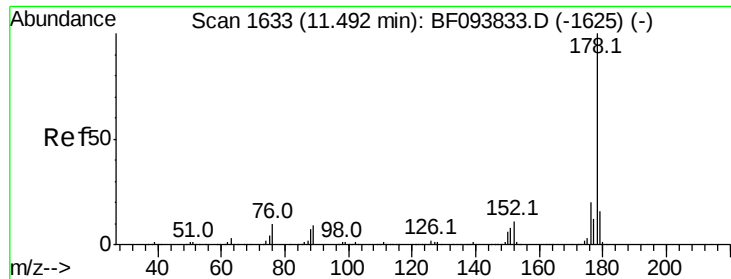
mohammad
 4/4/2017 5:35:16 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.3	9.4	14.2	
80	10.1	10.2	15.2	





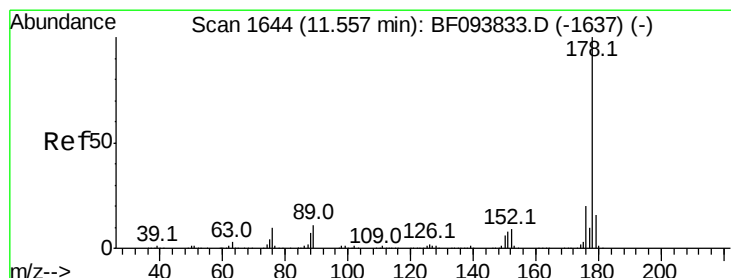
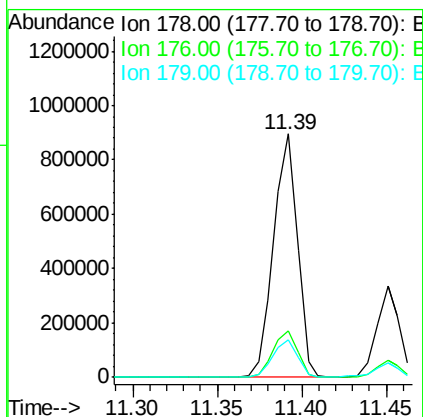
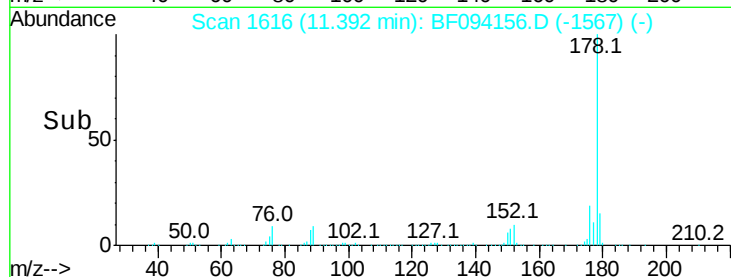
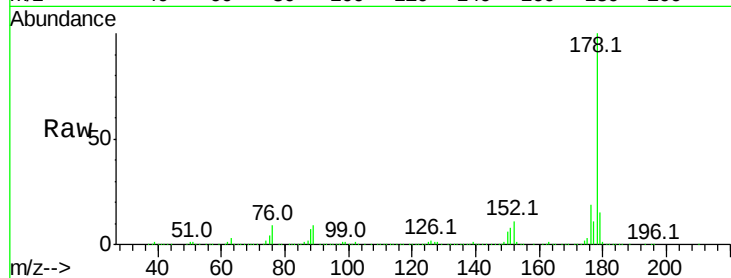
#70
Phenanthrene
Concen: 42.52 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.01 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Instrument :
BNA_F
ClientSampleId :
E2-M11-ESW

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.2	24.4
179	15.3	12.6	19.0

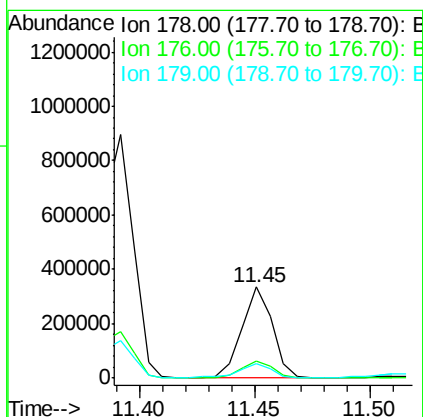
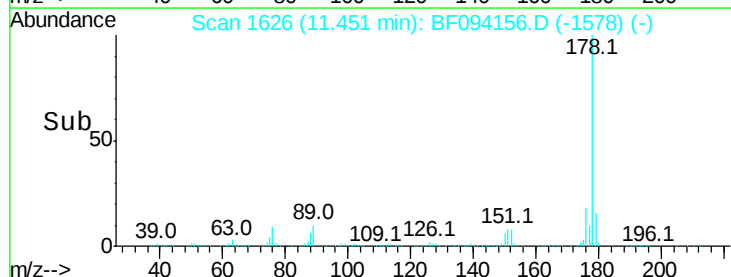
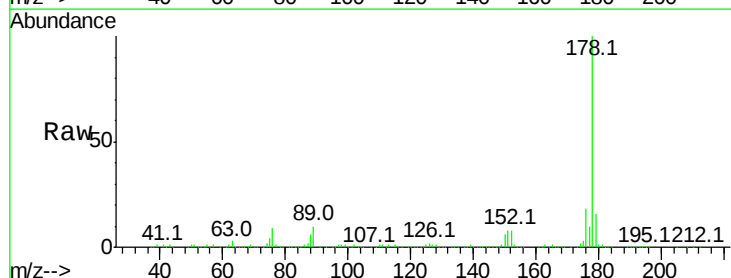
Manual Integrations
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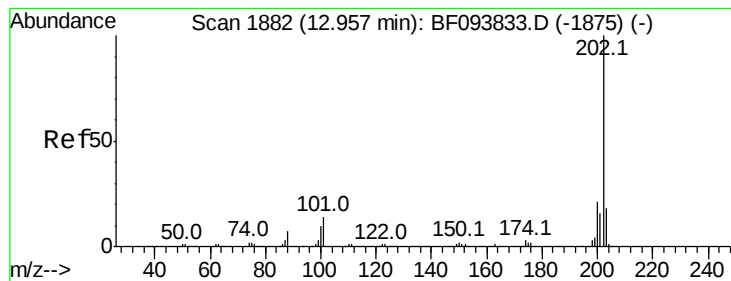
mohammad
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#71
Anthracene
Concen: 14.59 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.02 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	16.3	12.7	19.1





#74

Fluoranthene

Concen: 42.04 ng

RT: 12.86 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Instrument :

BNA_F

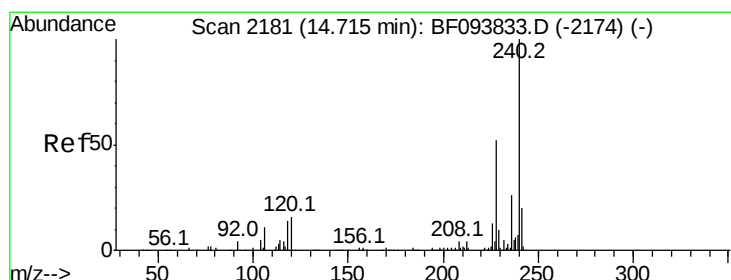
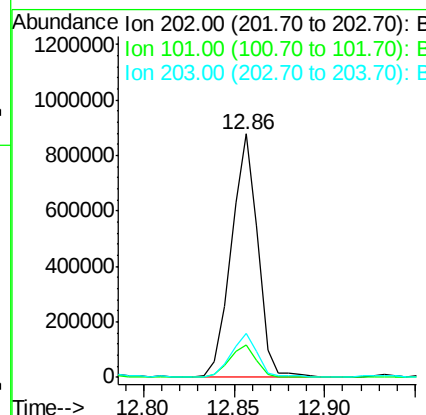
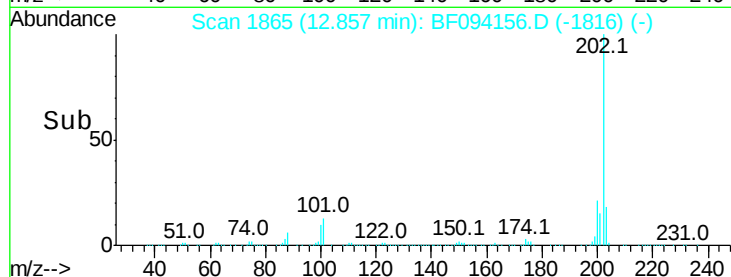
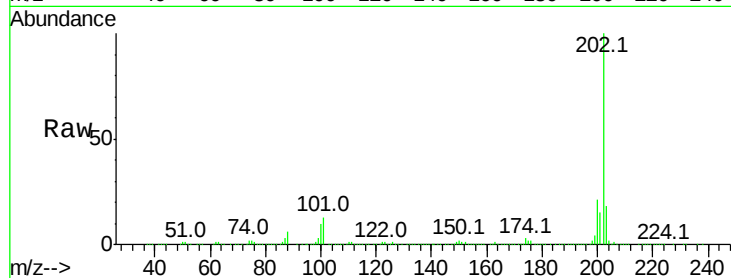
ClientSampleId :

E2-M11-ESW

Tot Ion	Ratio	Resp	Lower	Upper
202	100	882366		
101	13.5	0.0	33.2	
203	17.8	0.0	38.1	

Manual Integrations
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mohammad
4/4/2017 5:35:16 PM



#75

Chrysene-d12

Concen: 20.00 ng

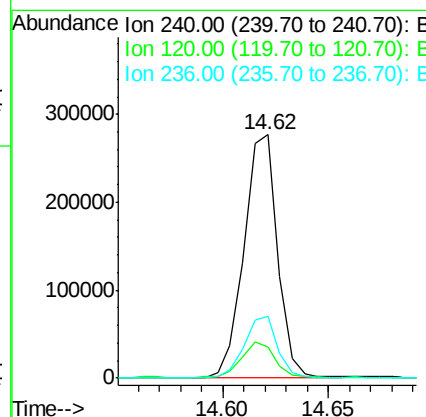
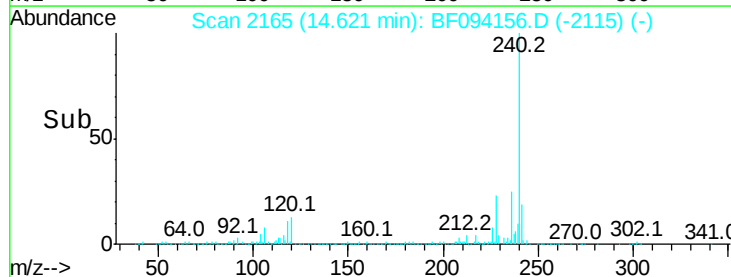
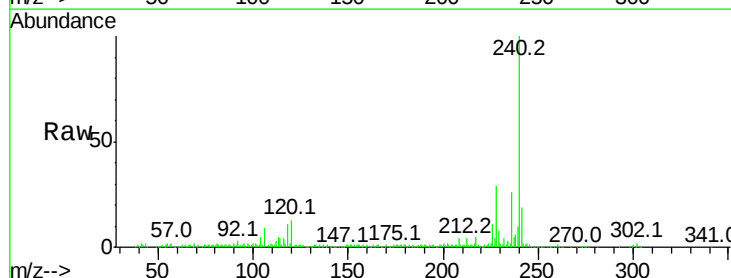
RT: 14.62 min Scan# 2165

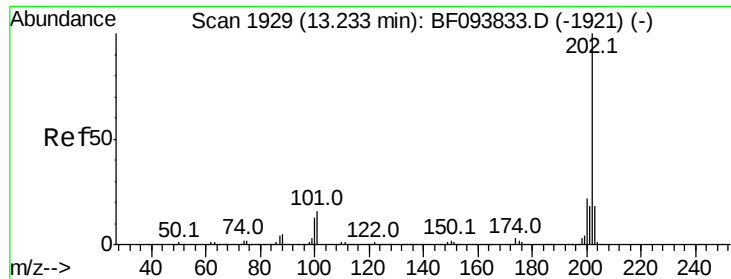
Delta R.T. -0.01 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	302592		
120	13.0	5.8	8.8#	
236	25.5	20.5	30.7	





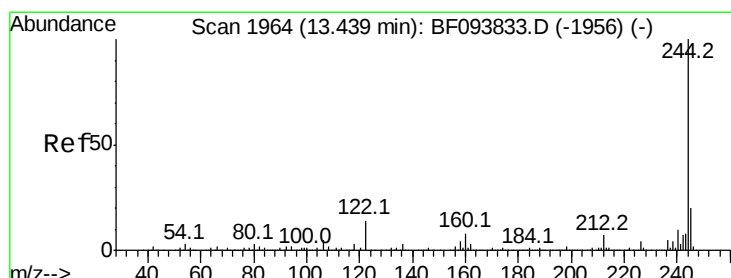
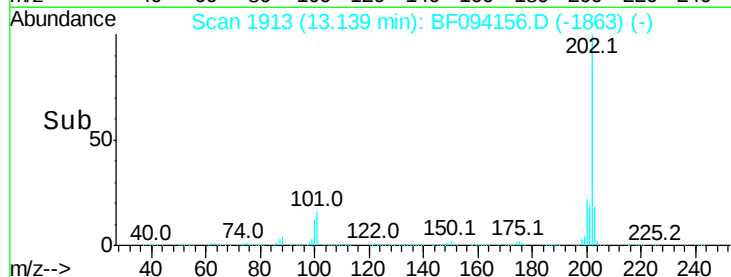
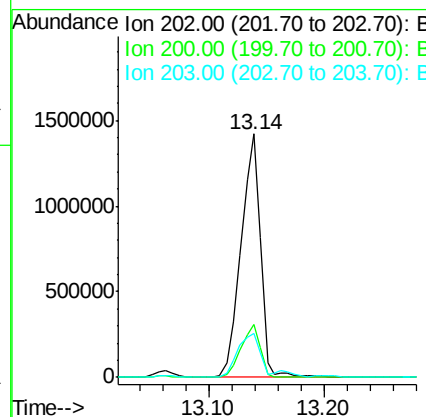
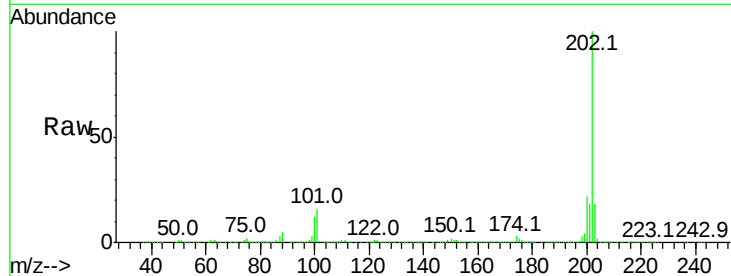
#77
Pvrene
Concen: 75.44 ng
RT: 13.14 min Scan# 1913
Delta R.T. -0.01 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Instrument :
BNA_F
ClientSampleId :
E2-M11-ESW

Tot Ion:202 Resp: 1656642
Ion Ratio Lower Upper
202 100
200 21.9 17.6 26.4
203 18.0 14.4 21.6

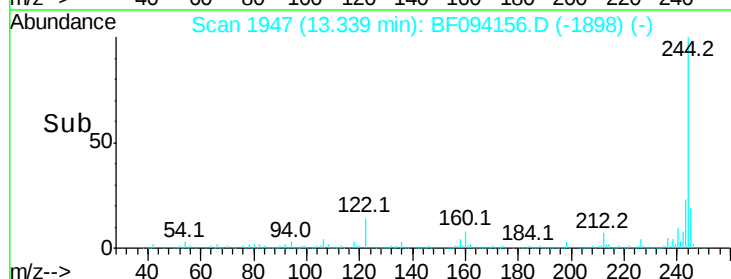
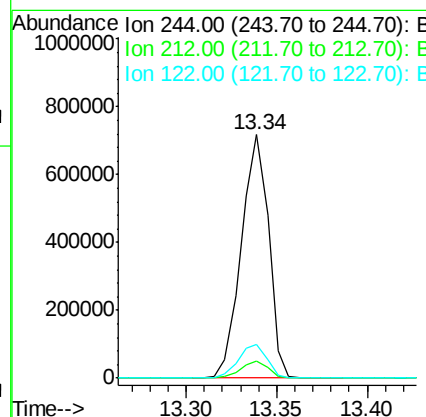
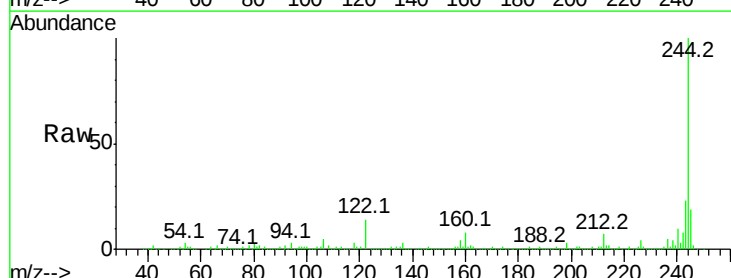
Manual Integrations
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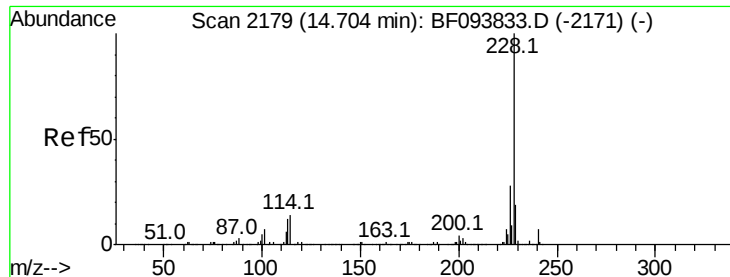
mohammad
4/4/2017 5:35:16 PM



#78
Terphenyl-d14
Concen: 55.69 ng
RT: 13.34 min Scan# 1947
Delta R.T. -0.01 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Tgt Ion:244 Resp: 751837
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 14.0 10.3 15.5





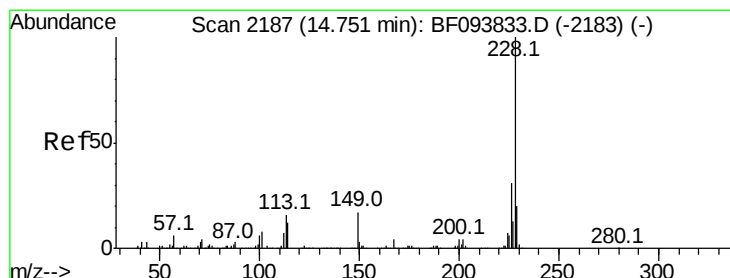
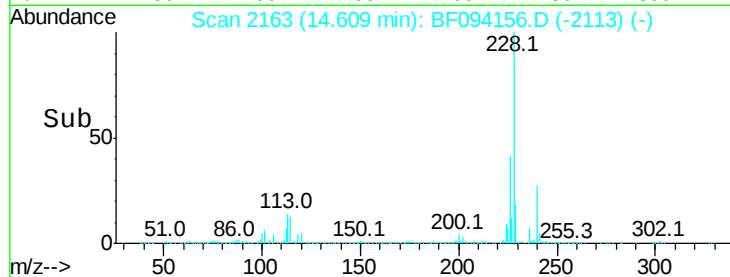
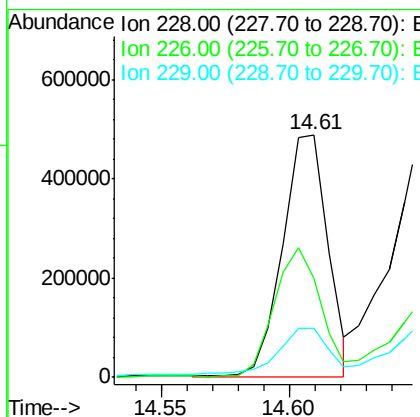
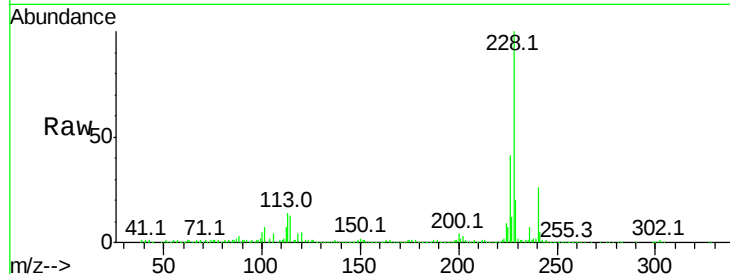
#80
Benzo(a)anthracene
Concen: 34.02 ng m
RT: 14.61 min Scan# 2163
Delta R.T. -0.01 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Instrument :
BNA_F
ClientSampleId :
E2-M11-ESW

Tot Ion	Ratio	Lower	Upper
228	100		
226	41.0	22.6	33.8#
229	20.3	16.3	24.5

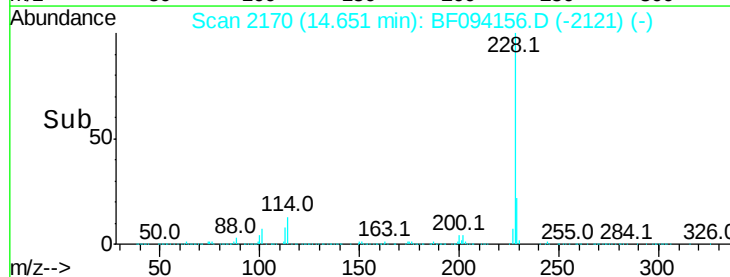
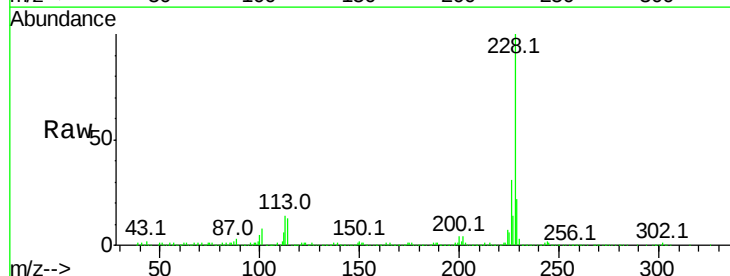
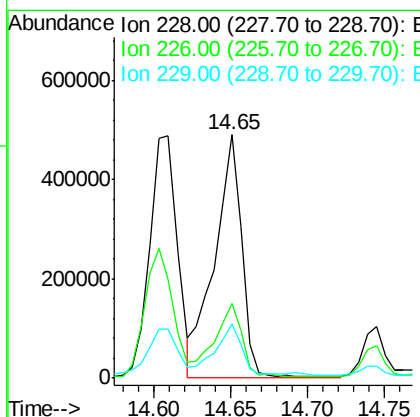
Manual Integrations
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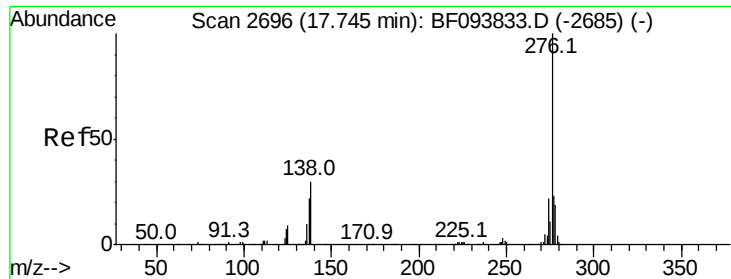
mohammad
4/4/2017 5:35:16 PM



#82
Chrysene
Concen: 37.85 ng m
RT: 14.65 min Scan# 2170
Delta R.T. -0.01 min
Lab File: BF094156.D
Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.9	37.3
229	22.0	15.8	23.6





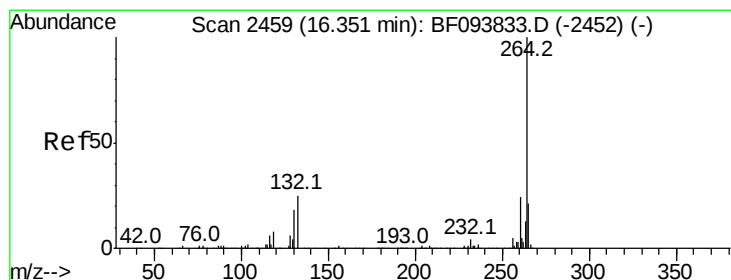
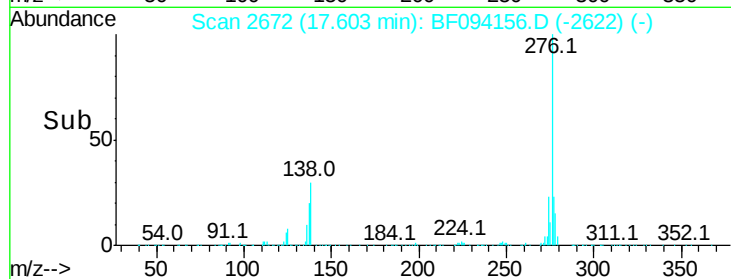
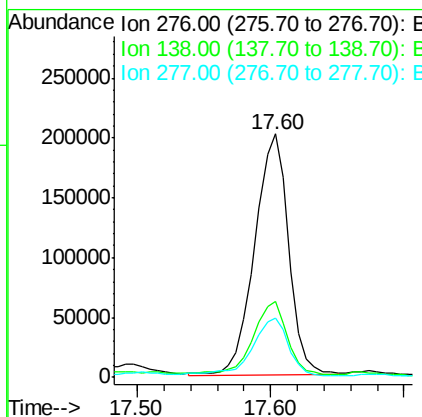
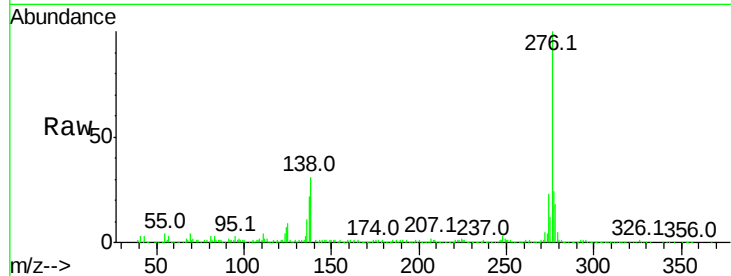
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 25.00 ng
 RT: 17.60 min Scan# 2672
 Delta R.T. -0.01 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Instrument :
 BNA_F
 ClientSampleId :
 E2-M11-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.0	27.8	41.6
277	25.7	20.2	30.4

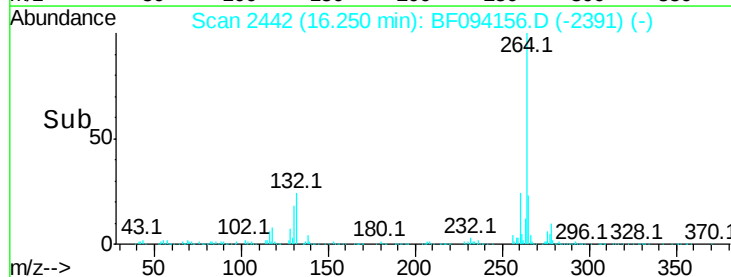
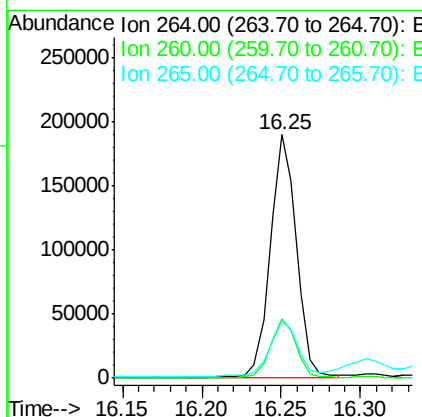
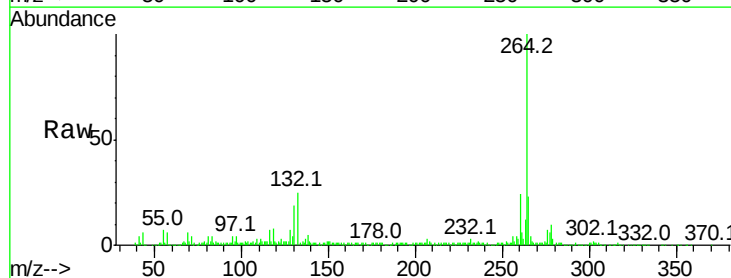
Manual Integrations
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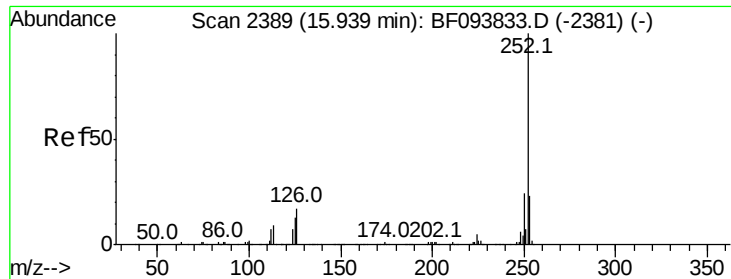
mohammad
 4/4/2017 5:35:16 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.25 min Scan# 2442
 Delta R.T. -0.00 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	23.4	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 51.57 ng m

RT: 15.84 min Scan# 2373

Delta R.T. -0.01 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Instrument :

BNA_F

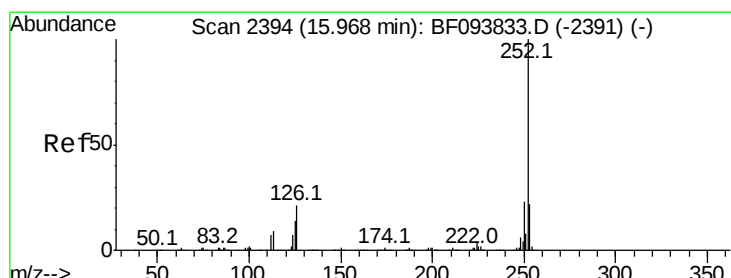
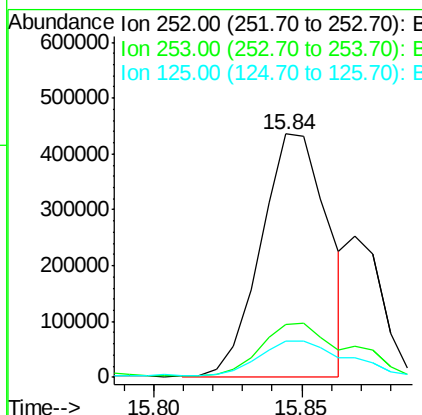
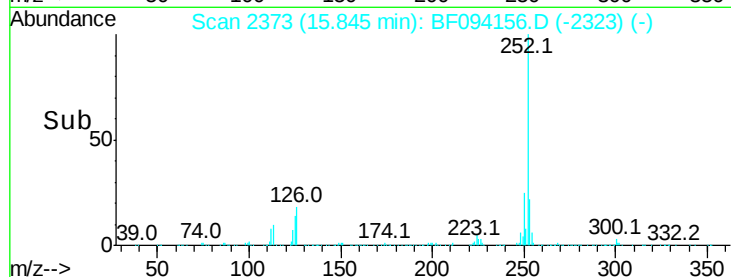
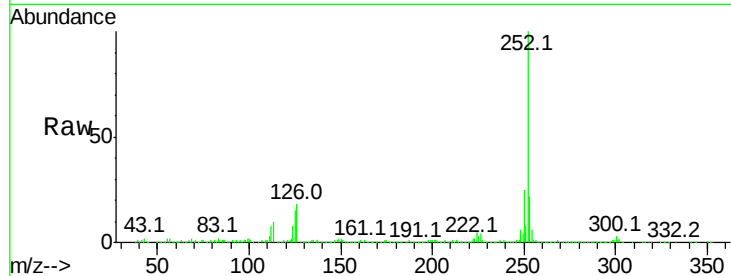
ClientSampleId :

E2-M11-ESW

Tot Ion:	252	Resp:	690110
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.1	27.1
125	14.9	9.8	14.8#

Manual Integrations
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mohammad
4/4/2017 5:35:16 PM



#88

Benzo(k)fluoranthene

Concen: 15.94 ng m

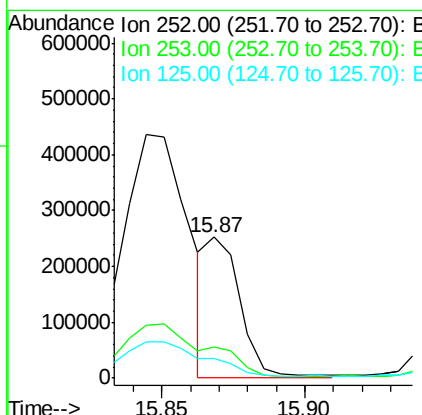
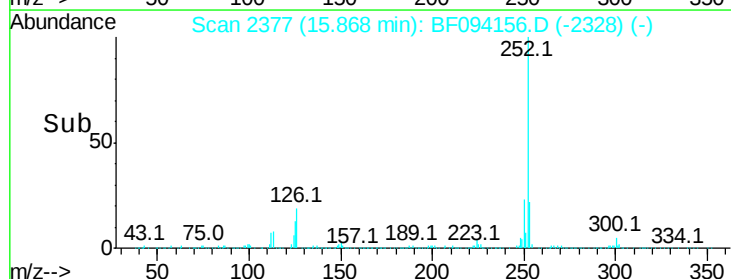
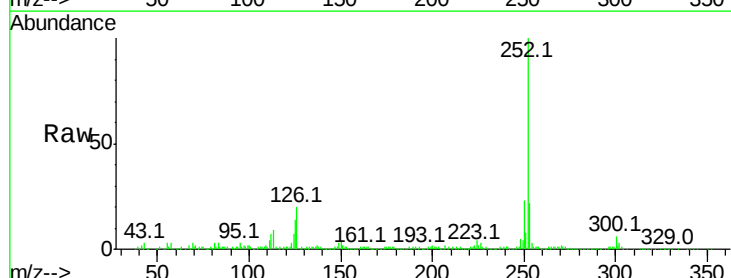
RT: 15.87 min Scan# 2377

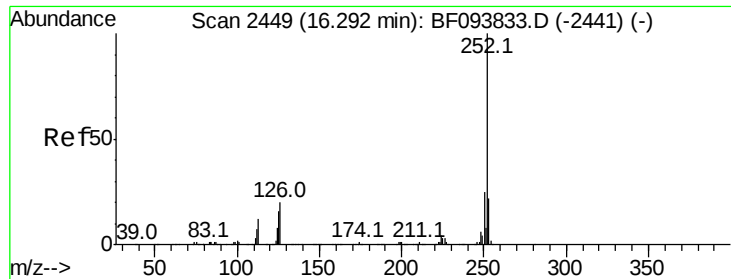
Delta R.T. -0.01 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Tgt Ion:	252	Resp:	208733
Ion Ratio	Lower	Upper	
252	100		
253	22.4	18.4	27.6
125	14.0	13.1	19.7





#89

Benzo(a)pyrene

Concen: 54.98 ng

RT: 16.20 min Scan# 2433

Delta R.T. -0.00 min

Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Instrument :

BNA_F

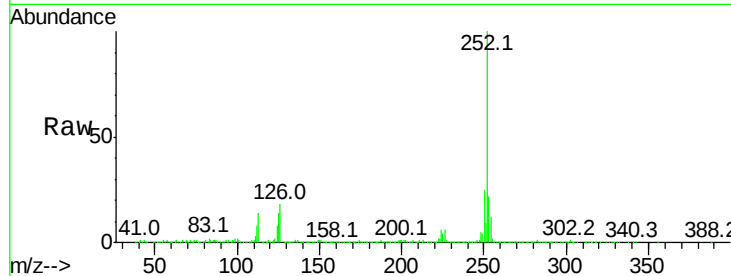
ClientSampleId :

E2-M11-ESW

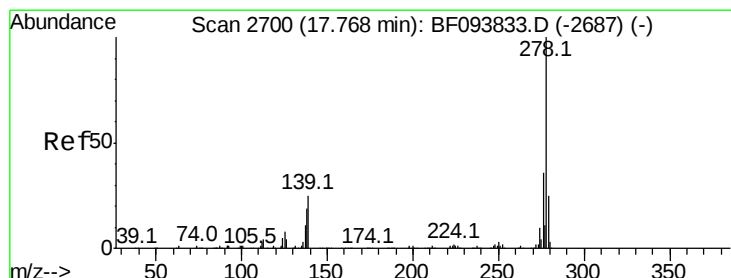
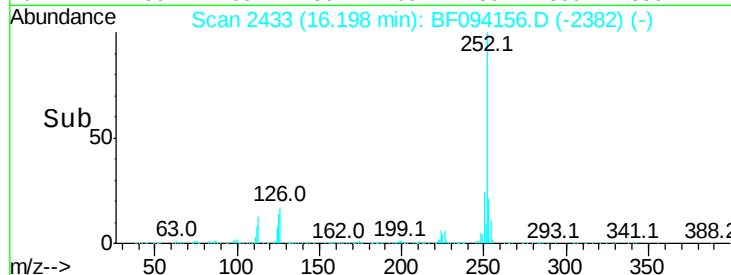
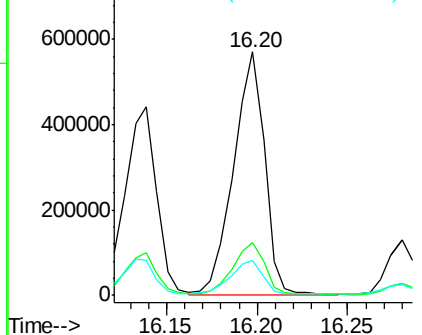
Tot Ion:	252	Resp:	677533
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.5	26.3
125	14.3	11.0	16.4

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:16 PM



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



#90

Dibenzo(a,h)anthracene

Concen: 6.89 ng m

RT: 17.61 min Scan# 2673

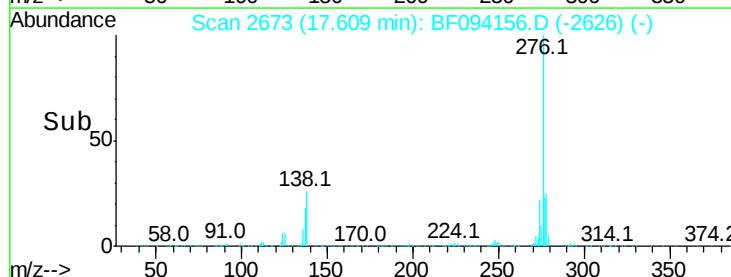
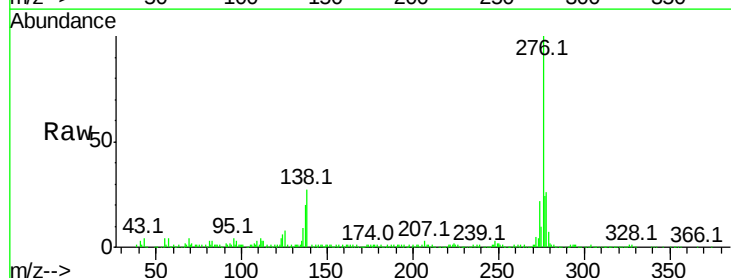
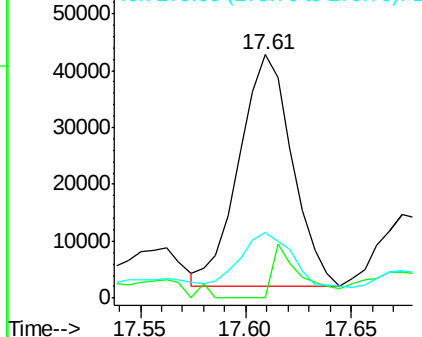
Delta R.T. -0.02 min

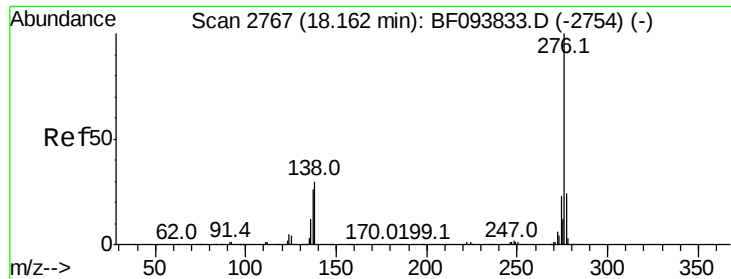
Lab File: BF094156.D

Acq: 4 Apr 2017 8:57

Tgt Ion:	278	Resp:	71902
Ion Ratio	Lower	Upper	
278	100		
139	0.0	16.6	24.8#
279	27.2	19.3	28.9

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 47.43 ng
 RT: 18.00 min Scan# 2740
 Delta R.T. -0.01 min
 Lab File: BF094156.D
 Acq: 4 Apr 2017 8:57

Instrument :
 BNA_F
 ClientSampleId :
 E2-M11-ESW

Tot Ion	Ratio	Resp	Lower	Upper
276	100	498781		
277	23.8		18.6	28.0
138	31.8		25.4	38.0

Manual Integrations
 APPROVED

mohammad
 4/4/2017 5:35:16 PM

