

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
 Data File : BF093245.D
 Acq On : 28 Feb 2017 13:41
 Operator : SJ/MA
 Sample : I1998-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-15-41-COMP

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Quant Time: Mar 01 07:34:39 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	148938	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	537713	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	254965	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	433016	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	279516	20.00	ng	-0.05
86) Perylene-d12	15.39	264	308836	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	1065405	122.72	ng	-0.03
7) Phenol-d6	6.46	99	1371766	122.81	ng	-0.02
23) Nitrobenzene-d5	7.38	82	826005	85.54	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	202053	109.57	ng	-0.05
44) 2-Fluorobiphenyl	9.17	172	1271867	90.37	ng	-0.05
78) Terphenyl-d14	12.91	244	742446	62.41	ng	-0.06
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.81	142	39010	2.23	ng	96
48) Acenaphthylene	9.71	152	96152	3.85	ng	99
49) Dimethylphthalate	9.56	163	389196	22.66	ng	98
51) Acenaphthene	9.87	154	106782	7.16	ng	96
54) Dibenzofuran	10.05	168	84316	4.23	ng	# 88
57) Fluorene	10.38	166	190663	12.42	ng	97
70) Phenanthrene	11.36	178	1708427	68.87	ng	99
71) Anthracene	11.40	178	531562	21.34	ng	99
72) Carbazole	11.56	167	163689	6.87	ng	99
74) Fluoranthene	12.55	202	2174969	84.99	ng	99
77) Pyrene	12.77	202	1766846	84.47	ng	100
80) Benzo(a)anthracene	13.96	228	914756	53.51	ng	97
82) Chrysene	14.00	228	844135m	52.74	ng	
85) Indeno(1,2,3-cd)pyrene	16.79	276	558918	45.08	ng	95
87) Benzo(b)fluoranthene	14.99	252	1007893m	49.58	ng	
88) Benzo(k)fluoranthene	15.00	252	426691m	24.31	ng	
89) Benzo(a)pyrene	15.35	252	800680	45.54	ng	# 97
90) Dibenzo(a,h)anthracene	16.79	278	139688m	9.83	ng	
91) Benzo(g,h,i)perylene	17.21	276	475307	33.11	ng	# 88

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

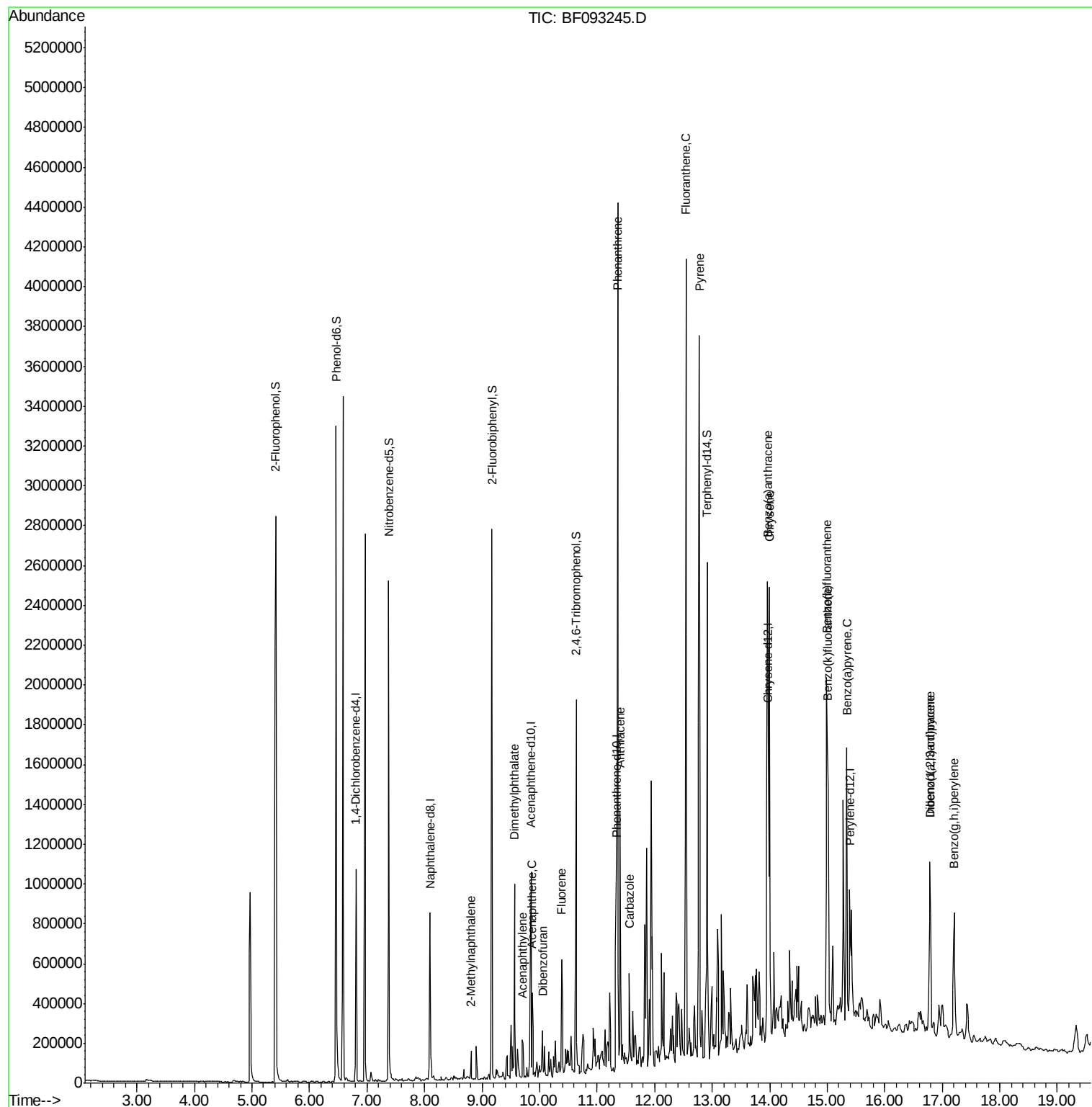
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.81 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Instrument :

BNA_F

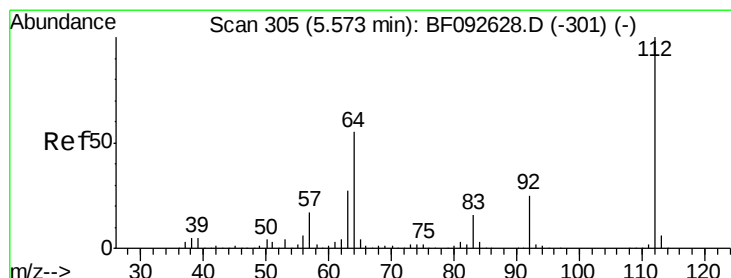
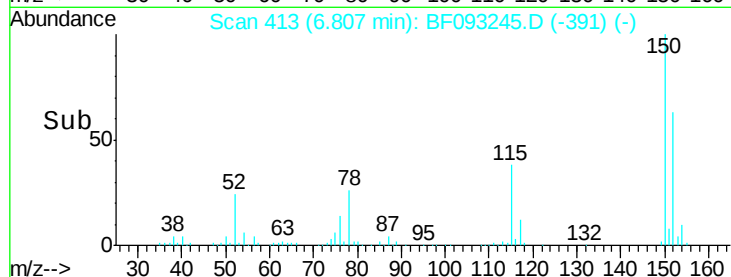
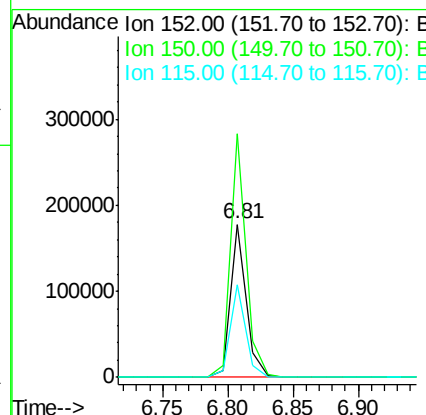
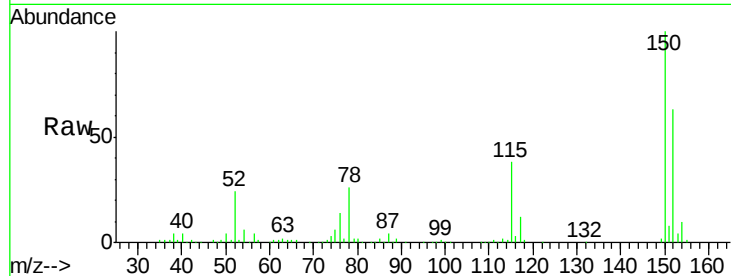
ClientSampleId :

ROLL-OFF-15-41-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	148938		
150	159.1	124.9	187.3	
115	60.1	46.0	69.0	

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#5

2-Fluorophenol

Concen: 122.72 ng

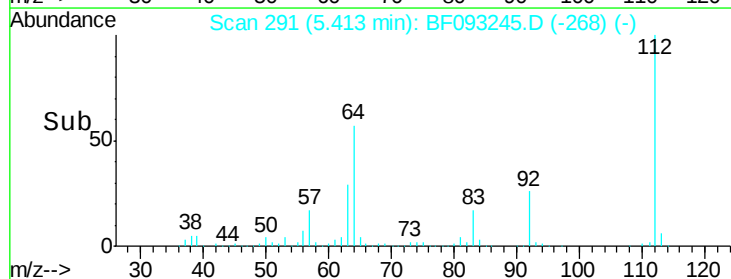
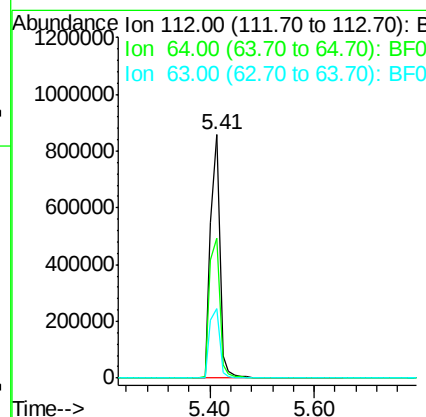
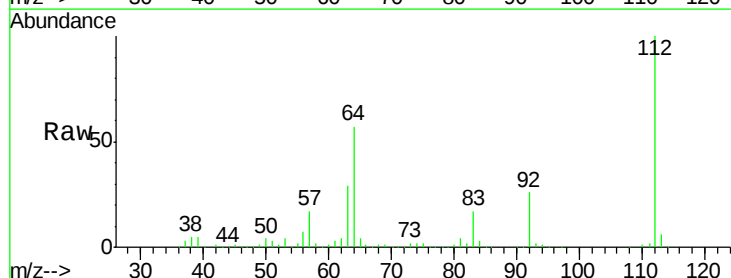
RT: 5.41 min Scan# 291

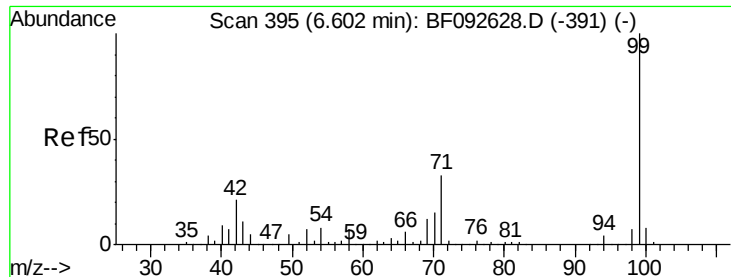
Delta R.T. -0.03 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1065405		
64	57.2	46.1	69.1	
63	28.6	23.8	35.6	





#7

Phenol-d6

Concen: 122.81 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093245.D

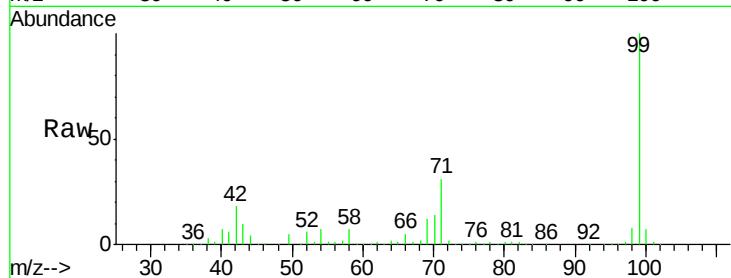
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Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-15-41-COMP



Tgt Ion: 99 Resp: 1371766

Ion Ratio Lower Upper

99 100

42 18.5 15.6 23.4

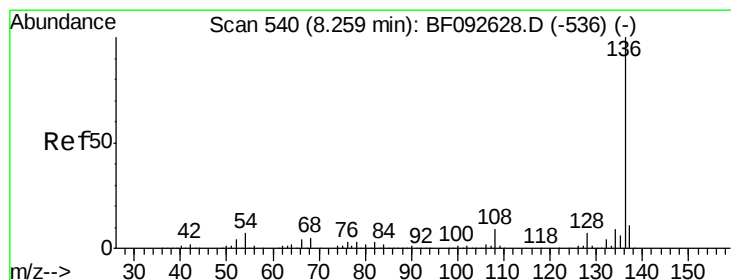
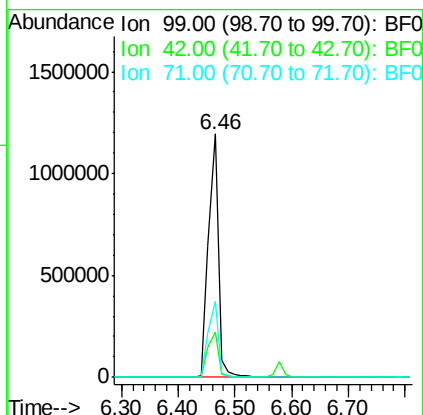
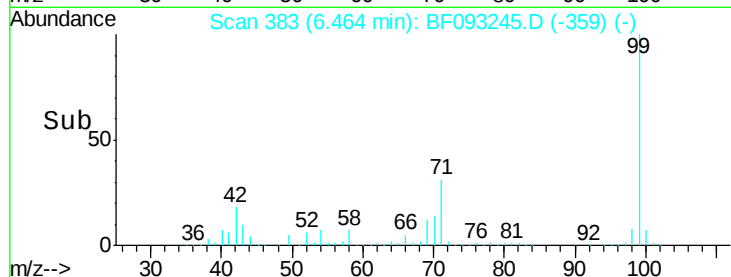
71 31.1 27.5 41.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 526

Delta R.T. -0.05 min

Lab File: BF093245.D

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Tgt Ion: 136 Resp: 537713

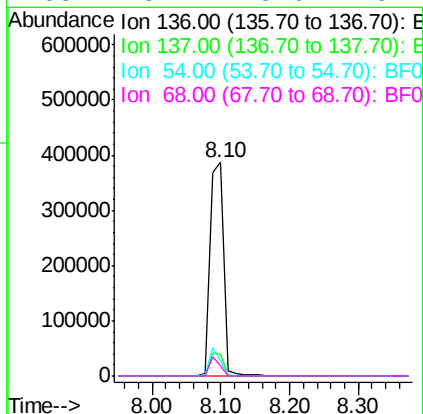
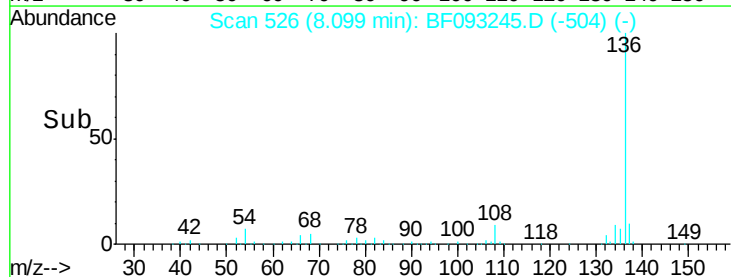
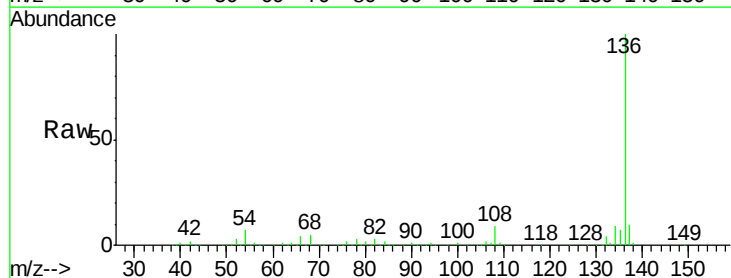
Ion Ratio Lower Upper

136 100

137 10.2 8.4 12.6

54 7.1 4.5 6.7#

68 5.1 3.6 5.4





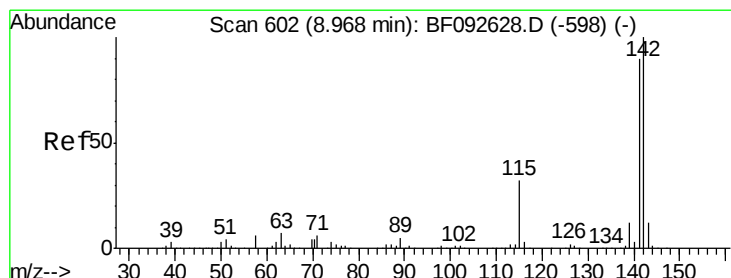
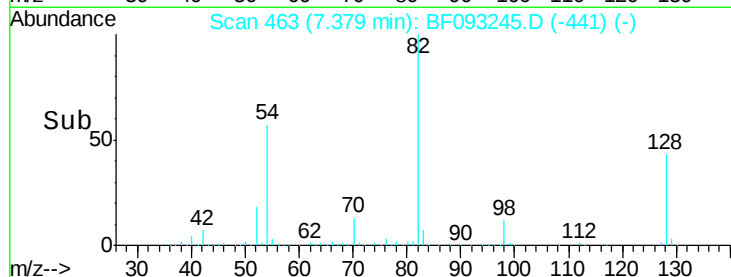
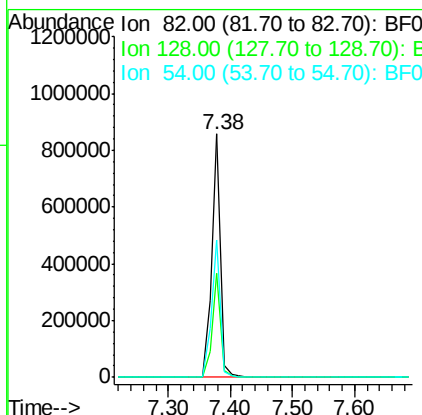
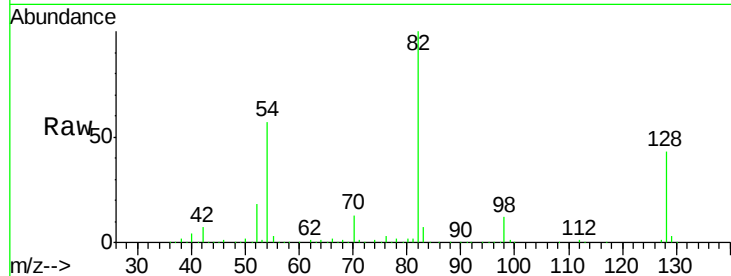
#23
 Nitrobenzene-d5
 Concen: 85.54 ng
 RT: 7.38 min Scan# 463
 Delta R.T. -0.05 min
 Lab File: BF093245.D
 Acq: 28 Feb 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-15-41-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	826005		
128	42.8		34.6	52.0
54	56.6		39.5	59.3

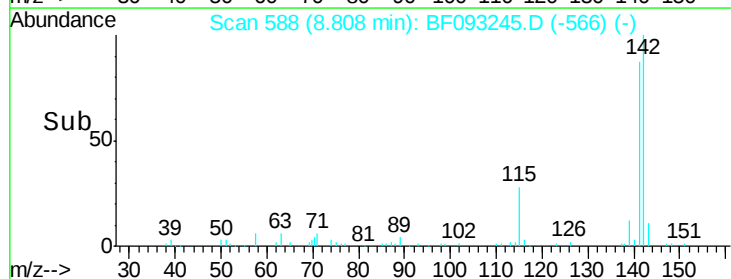
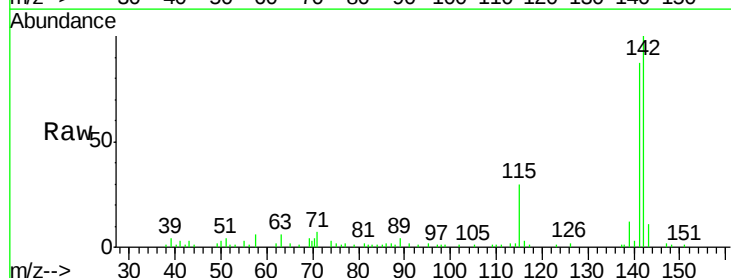
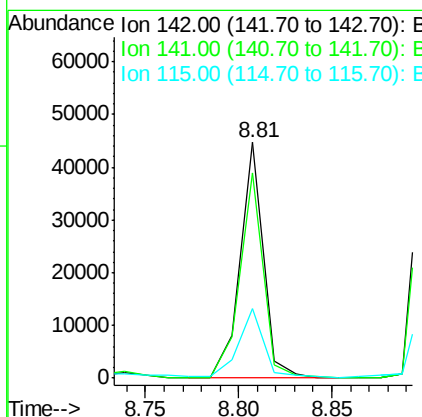
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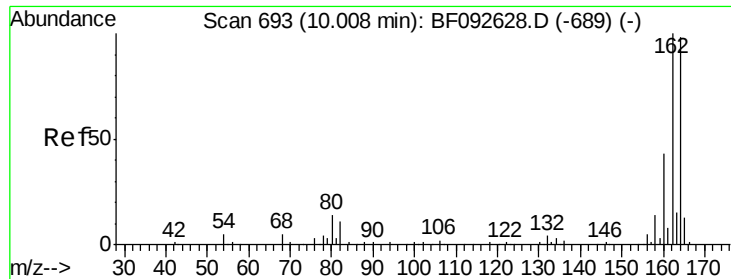
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#37
 2-Methylnaphthalene
 Concen: 2.23 ng
 RT: 8.81 min Scan# 588
 Delta R.T. -0.05 min
 Lab File: BF093245.D
 Acq: 28 Feb 2017 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	39010		
141	87.1		71.0	106.6
115	29.8		28.3	42.5





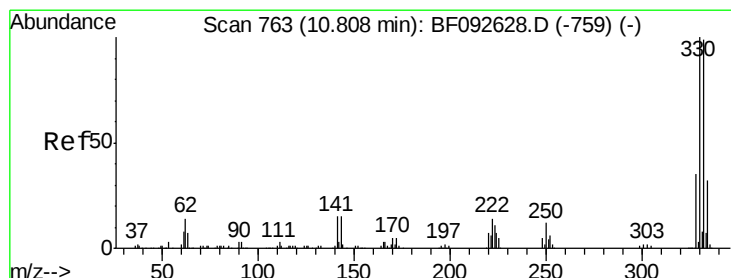
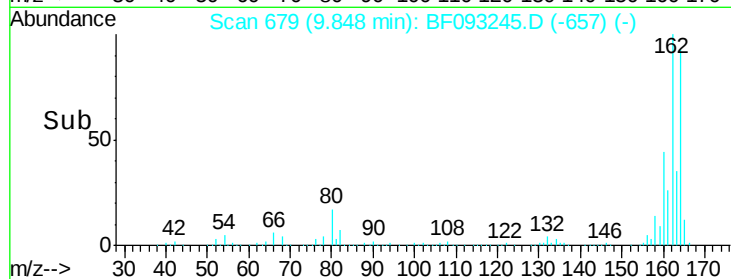
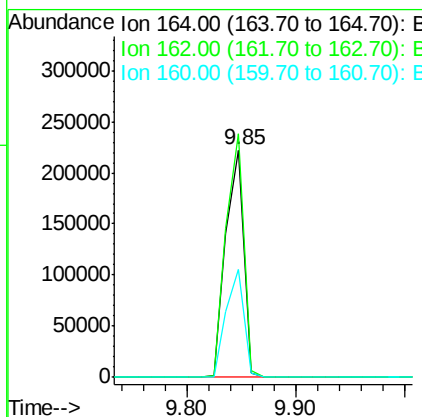
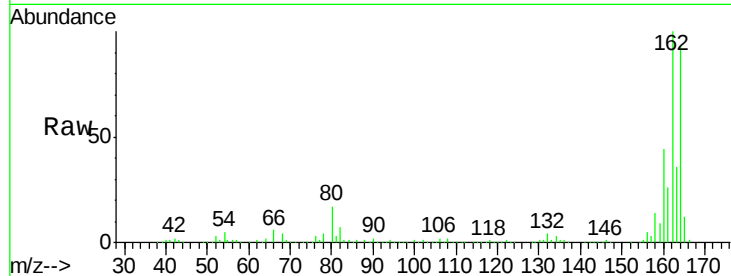
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 679
 Delta R.T. -0.05 min
 Lab File: BF093245.D
 Acq: 28 Feb 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-15-41-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	254965		
162	107.2	80.2	120.2	
160	47.5	36.9	55.3	

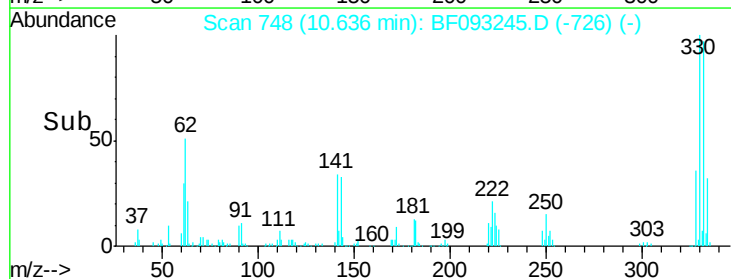
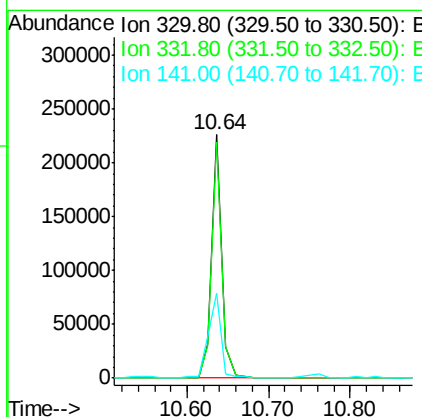
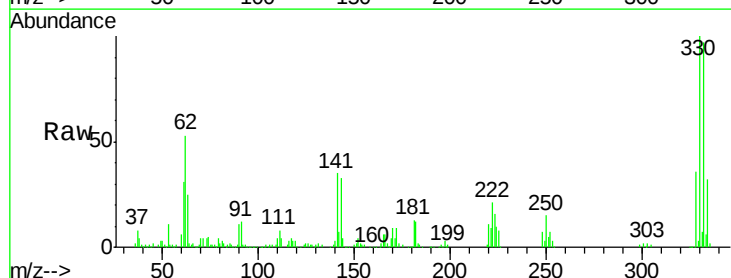
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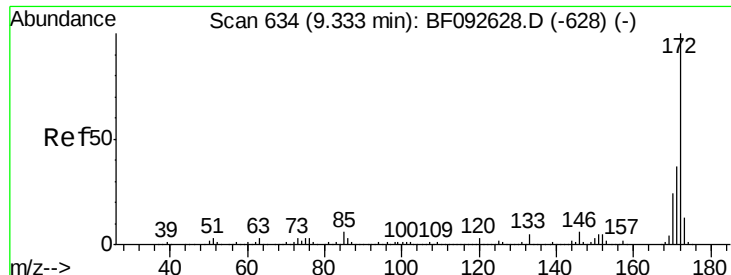
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#41
 2,4,6-Tribromophenol
 Concen: 109.57 ng
 RT: 10.64 min Scan# 748
 Delta R.T. -0.05 min
 Lab File: BF093245.D
 Acq: 28 Feb 2017 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	202053		
332	96.6	77.4	116.2	
141	42.0	34.1	51.1	





#44

2-Fluorobiphenyl

Concen: 90.37 ng

RT: 9.17 min Scan# 620

Delta R.T. -0.05 min

Lab File: BF093245.D

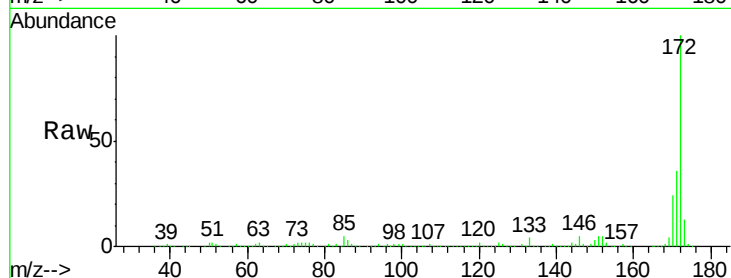
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Instrument :

BNA_F

ClientSampleId :

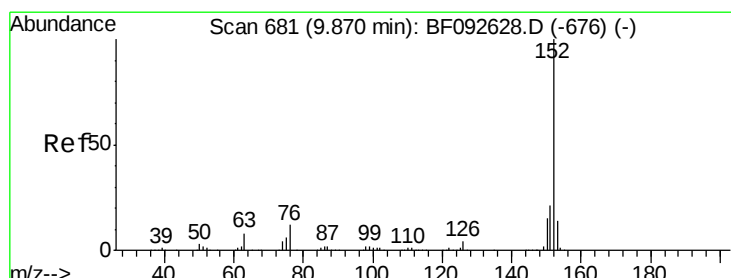
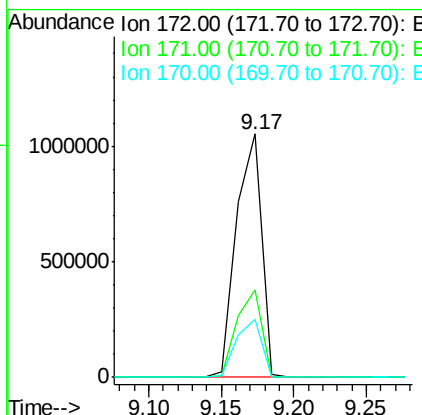
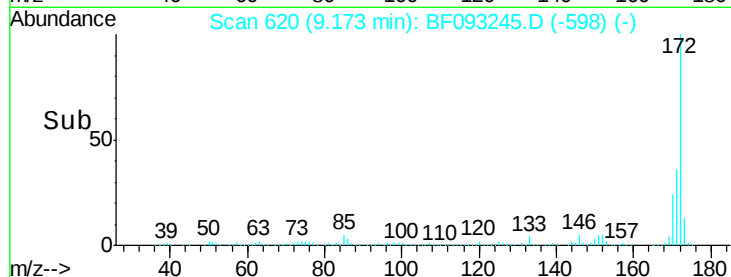
ROLL-OFF-15-41-COMP



Tgt Ion:	172	Resp:	1271867
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.4	44.0
170	23.9	20.2	30.4

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#48

Acenaphthylene

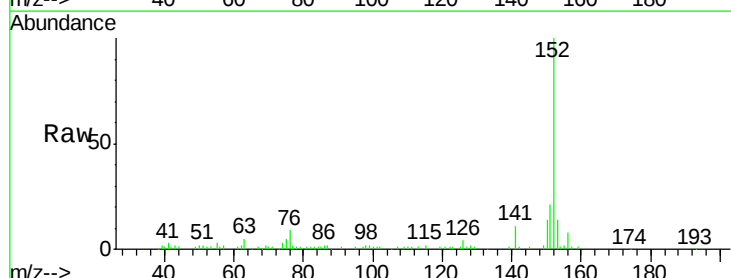
Concen: 3.85 ng

RT: 9.71 min Scan# 667

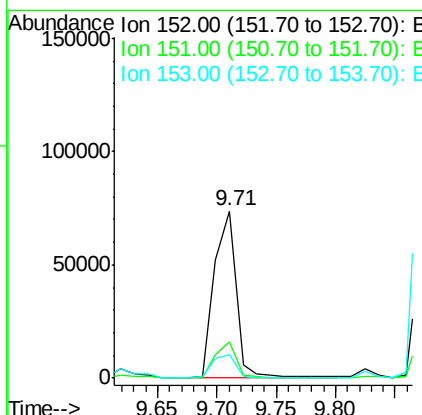
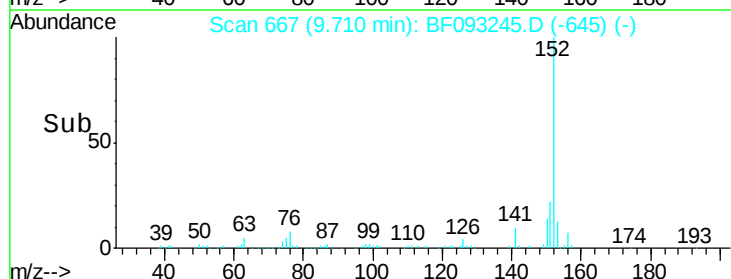
Delta R.T. -0.05 min

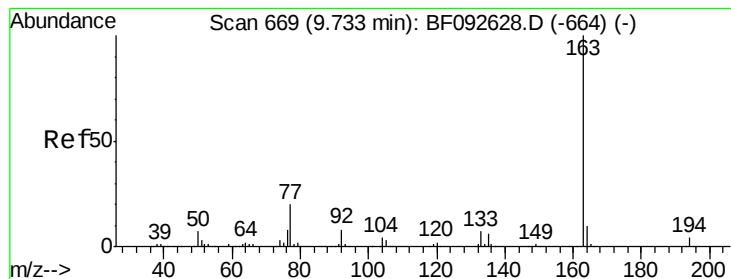
Lab File: BF093245.D

Acq: 28 Feb 2017 13:41



Tgt Ion:	152	Resp:	96152
Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.9	25.3
153	14.2	11.4	17.2





#49

Dimethylphthalate

Concen: 22.66 ng

RT: 9.56 min Scan# 654

Delta R.T. -0.06 min

Lab File: BF093245.D

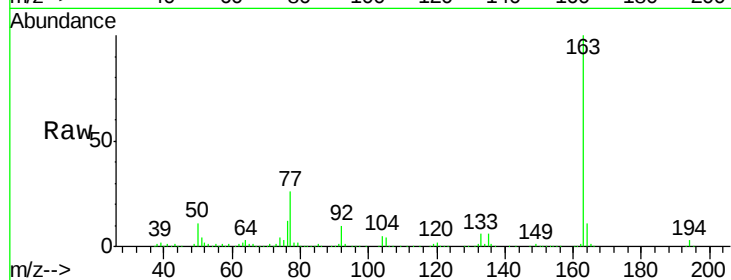
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Instrument :

BNA_F

ClientSampleId :

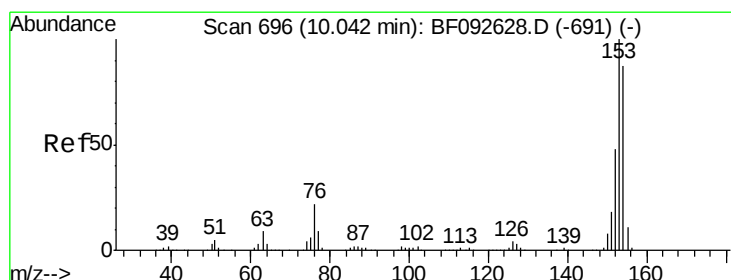
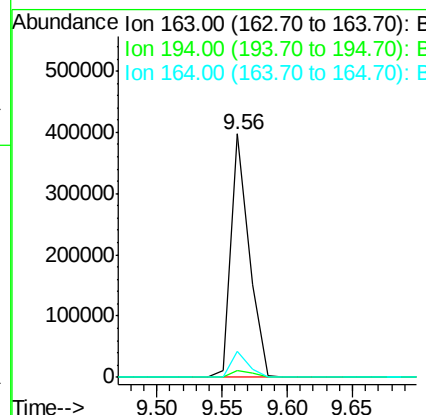
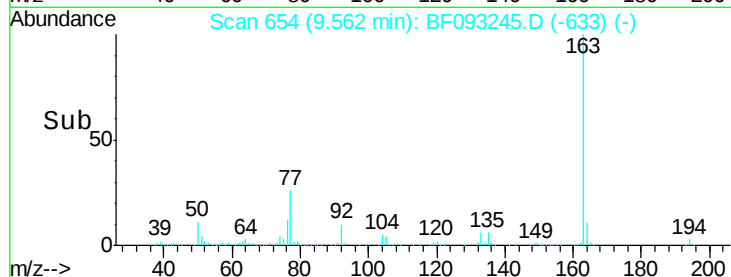
ROLL-OFF-15-41-COMP



Tgt Ion:	163	Resp:	389196
Ion Ratio	Lower	Upper	
163	100		
194	3.0	3.0	4.4
164	10.6	8.0	12.0

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#51

Acenaphthene

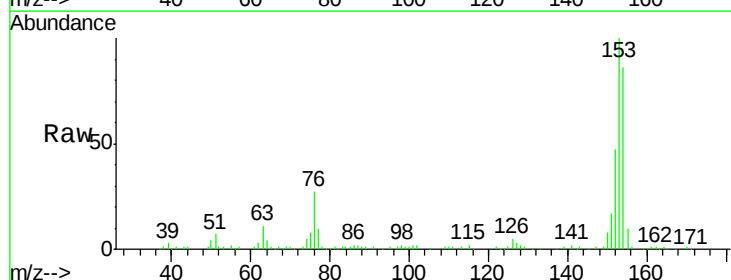
Concen: 7.16 ng

RT: 9.87 min Scan# 681

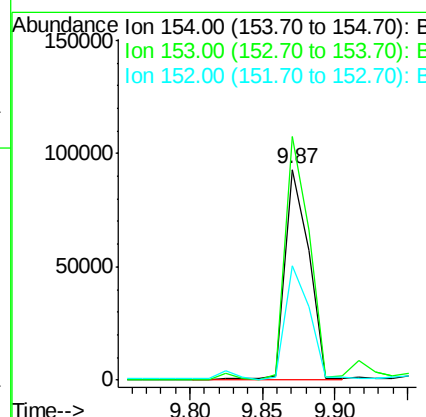
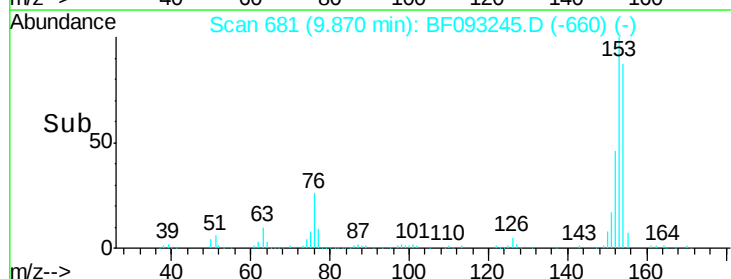
Delta R.T. -0.06 min

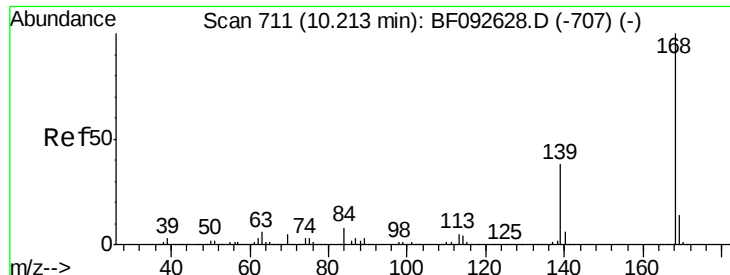
Lab File: BF093245.D

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Tgt Ion:	154	Resp:	106782
Ion Ratio	Lower	Upper	
154	100		
153	115.7	88.6	133.0
152	54.5	41.6	62.4





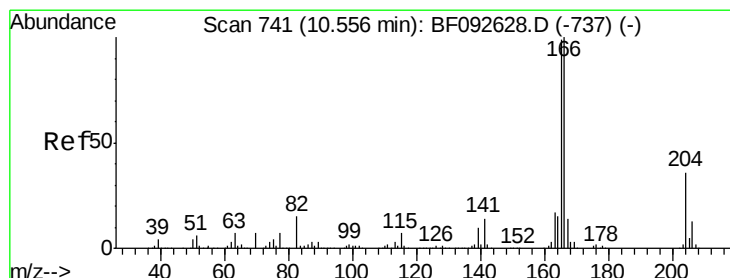
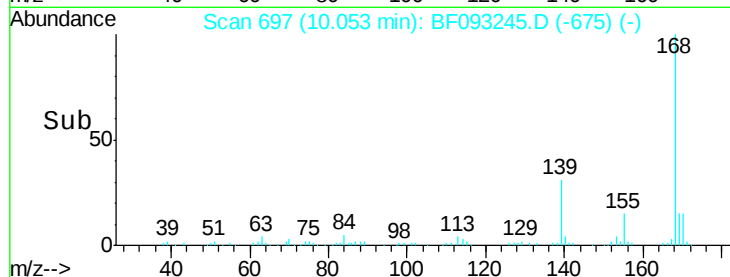
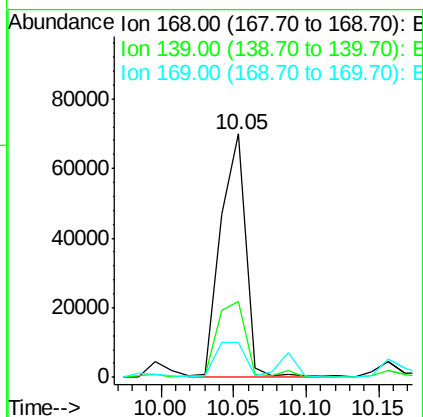
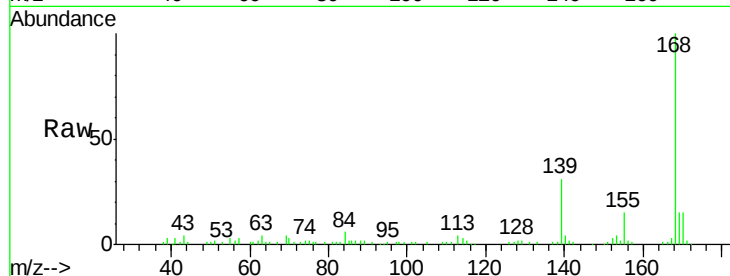
#54
Dibenzenofuran
Concen: 4.23 ng
RT: 10.05 min Scan# 697
Delta R.T. -0.05 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-15-41-COMP

Tgt Ion	Ratio	Lower	Upper
168	100		
139	31.3	32.6	49.0#
169	14.6	11.3	16.9

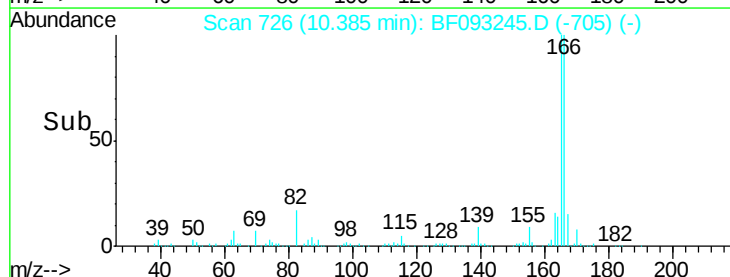
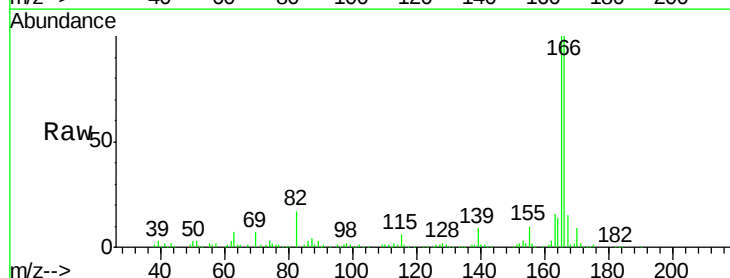
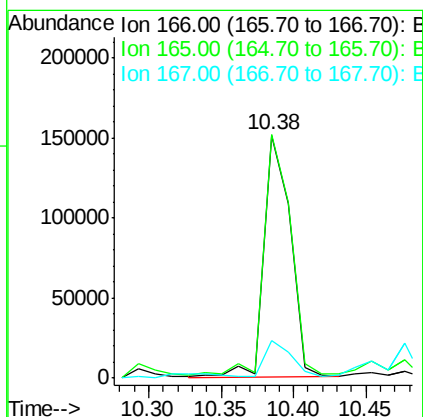
Manual Integrations
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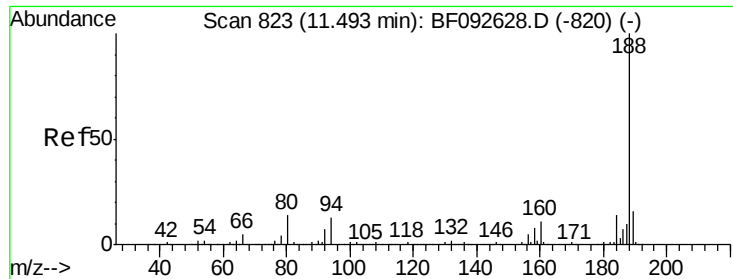
mohammad
3/1/2017 4:05:56 PM



#57
Fluorene
Concen: 12.42 ng
RT: 10.38 min Scan# 726
Delta R.T. -0.06 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.4	77.8	116.8
167	15.3	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Instrument :

BNA_F

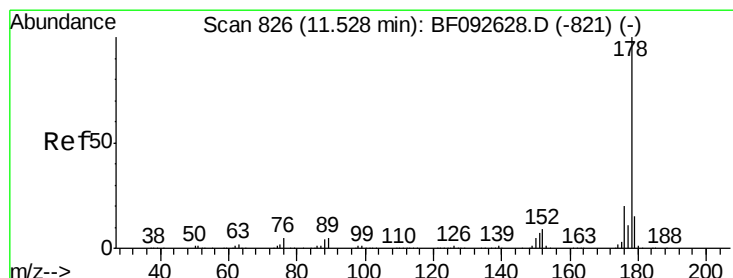
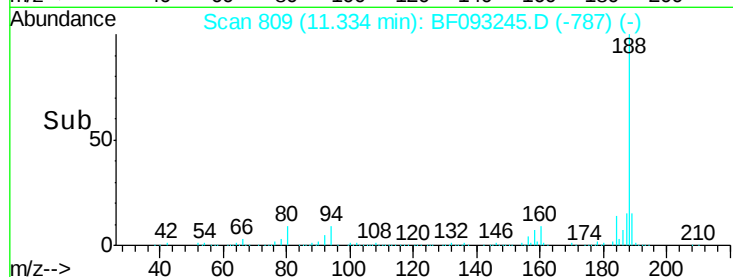
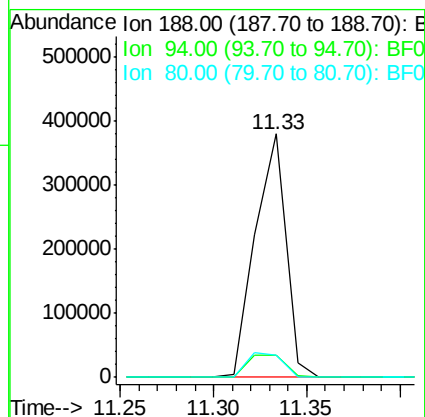
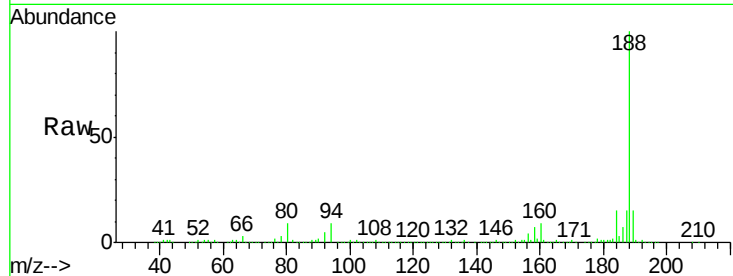
ClientSampleId :

ROLL-OFF-15-41-COMP

Tgt Ion:	188	Resp:	433016
Ion Ratio	Lower	Upper	
188	100		
94	9.2	10.0	15.0#
80	9.2	11.2	16.8#

Manual Integrations
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mohammad
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#70

Phenanthrene

Concen: 68.87 ng

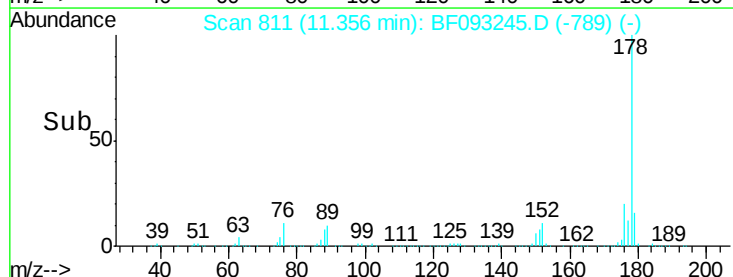
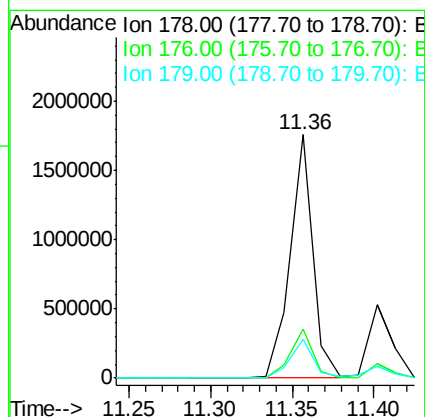
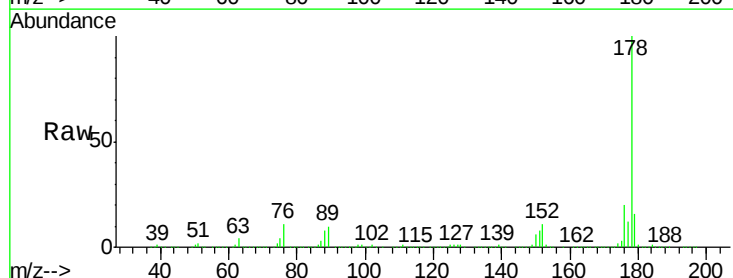
RT: 11.36 min Scan# 811

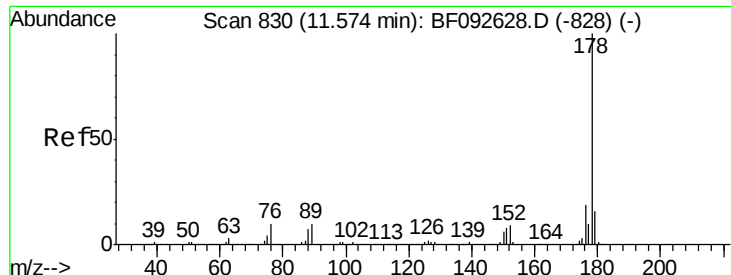
Delta R.T. -0.05 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Tgt Ion:	178	Resp:	1708427
Ion Ratio	Lower	Upper	
178	100		
176	20.1	16.6	25.0
179	16.1	12.8	19.2





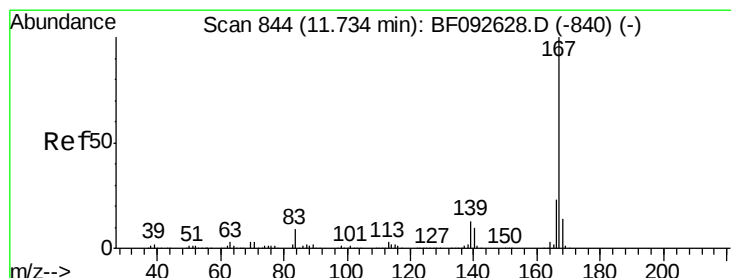
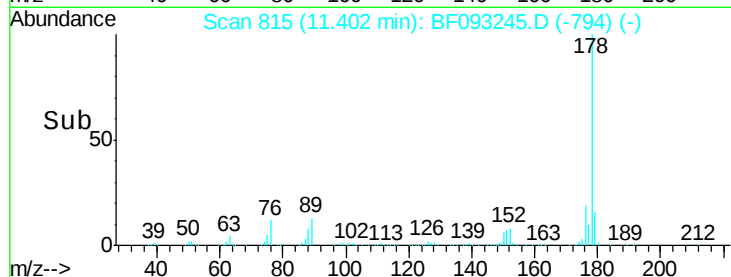
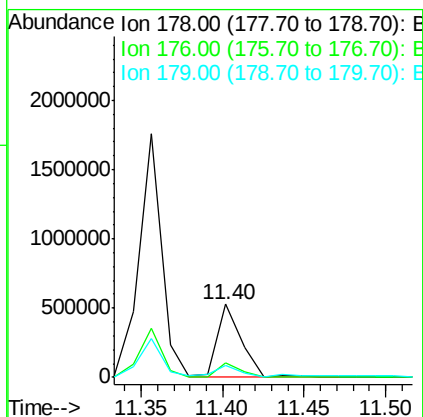
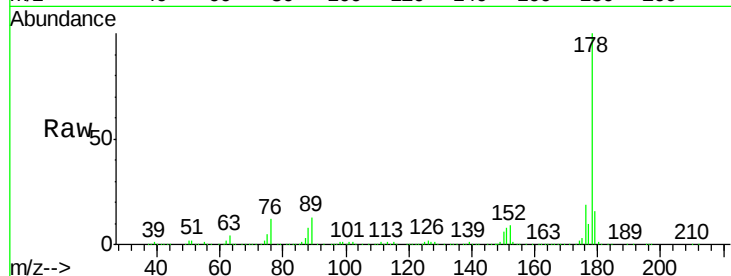
#71
 Anthracene
 Concen: 21.34 ng
 RT: 11.40 min Scan# 815
 Delta R.T. -0.06 min
 Lab File: BF093245.D
 Acq: 28 Feb 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-15-41-COMP

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	16.0	13.2	19.8

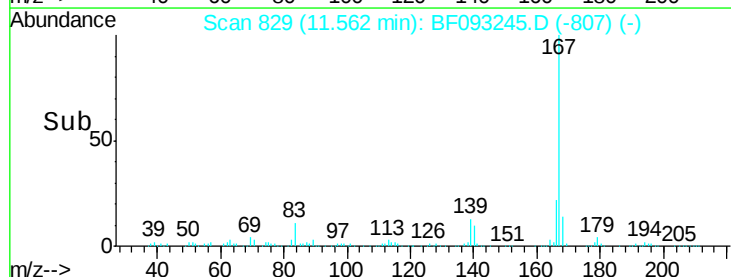
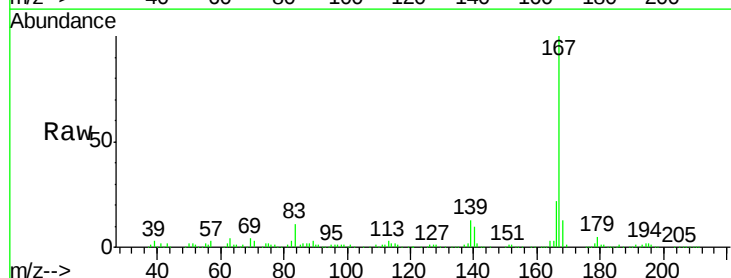
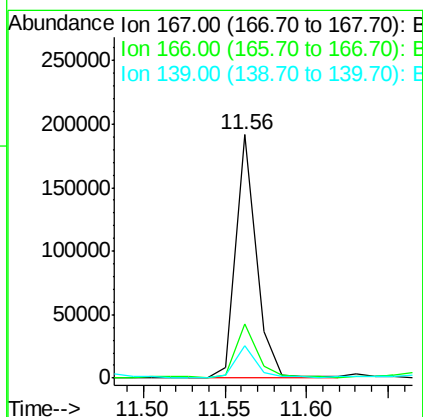
Manual Integrations
 APPROVED

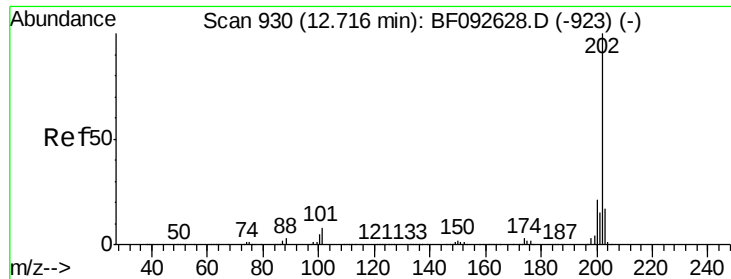
mohammad
 3/1/2017 4:05:56 PM



#72
 Carbazole
 Concen: 6.87 ng
 RT: 11.56 min Scan# 829
 Delta R.T. -0.05 min
 Lab File: BF093245.D
 Acq: 28 Feb 2017 13:41

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.2	27.2
139	13.4	11.4	17.2





#74

Fluoranthene

Concen: 84.99 ng

RT: 12.55 min Scan# 915

Delta R.T. -0.05 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Instrument :

BNA_F

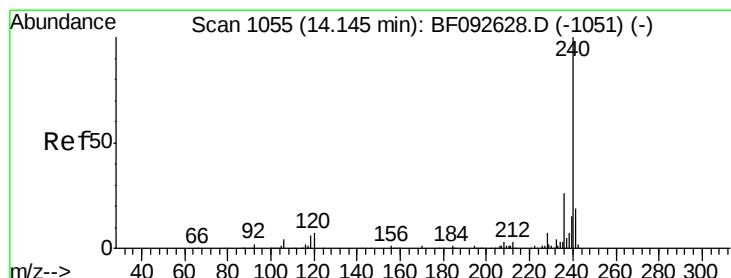
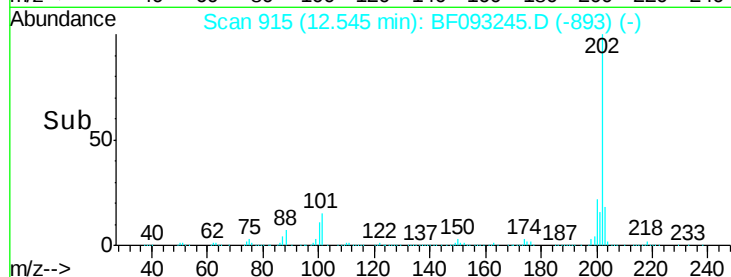
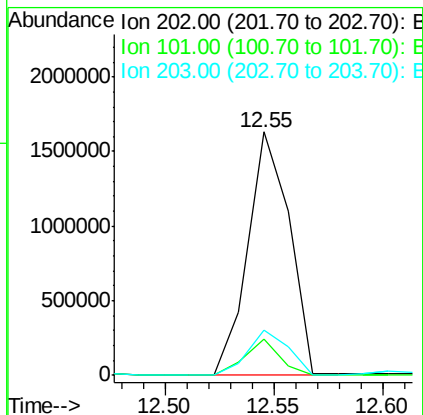
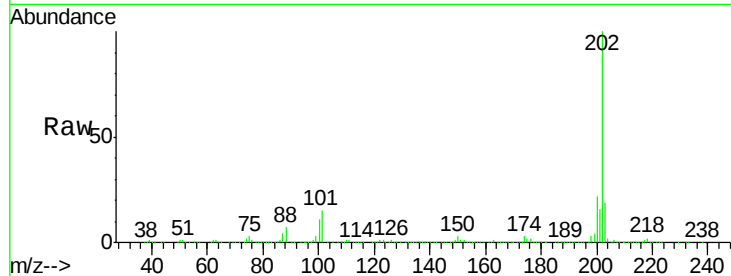
ClientSampleId :

ROLL-OFF-15-41-COMP

Tgt	Ion	202	Resp:	2174969
Ion	Ratio	Lower	Upper	
202	100			
101	15.0	0.0	34.6	
203	18.5	0.0	38.7	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

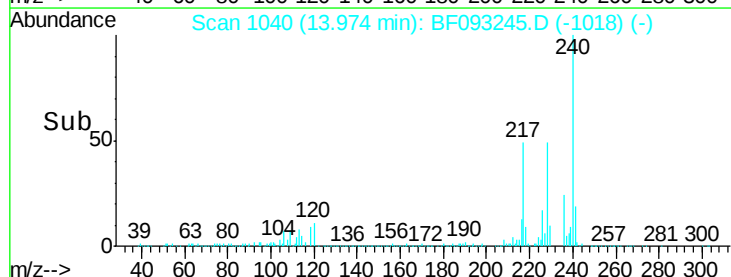
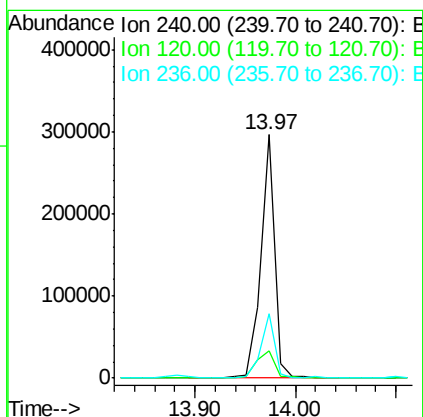
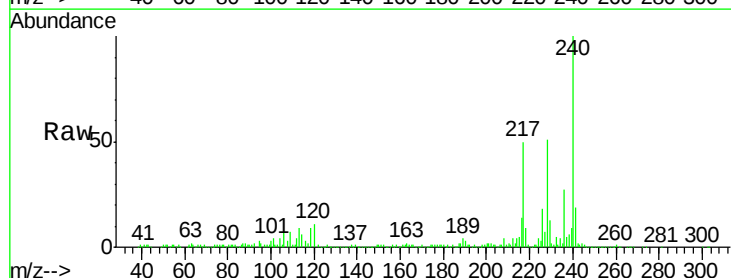
RT: 13.97 min Scan# 1040

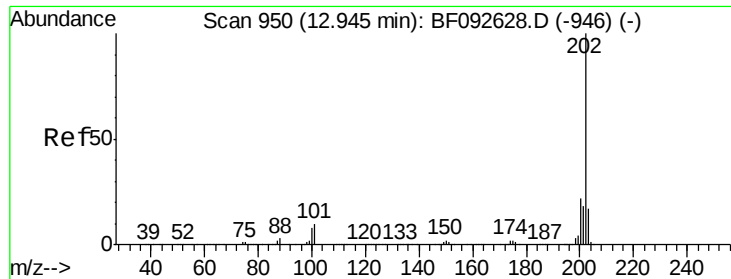
Delta R.T. -0.05 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Tgt	Ion	240	Resp:	279516
Ion	Ratio	Lower	Upper	
240	100			
120	11.3	12.9	19.3#	
236	26.7	20.9	31.3	





#77

Pyrene

Concen: 84.47 ng

RT: 12.77 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-15-41-COMP

Tgt Ion:202 Resp: 1766846

Ion Ratio Lower Upper

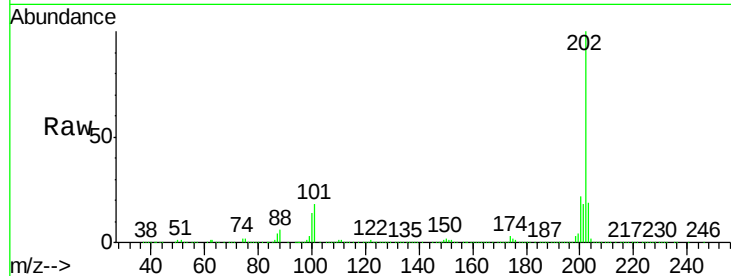
202 100

200 22.2 17.7 26.5

203 18.5 14.7 22.1

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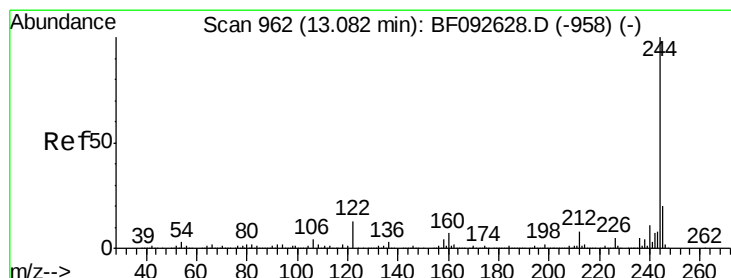
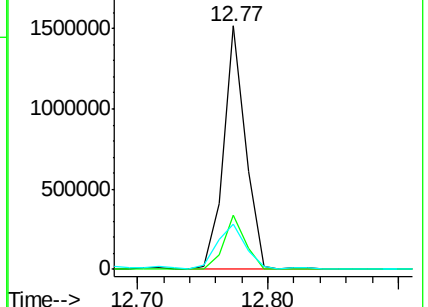
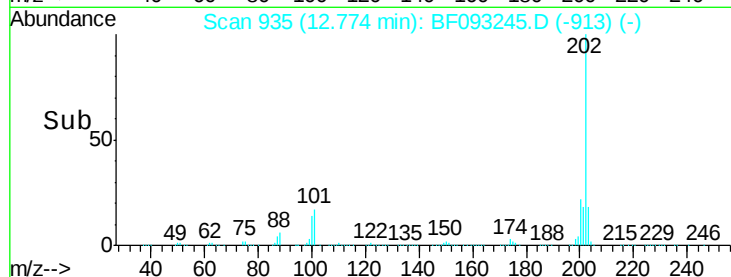
mohammad
3/1/2017 4:05:56 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 62.41 ng

RT: 12.91 min Scan# 947

Delta R.T. -0.06 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

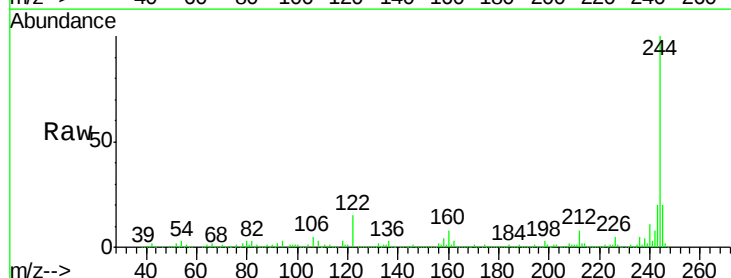
Tgt Ion:244 Resp: 742446

Ion Ratio Lower Upper

244 100

212 8.0 6.2 9.2

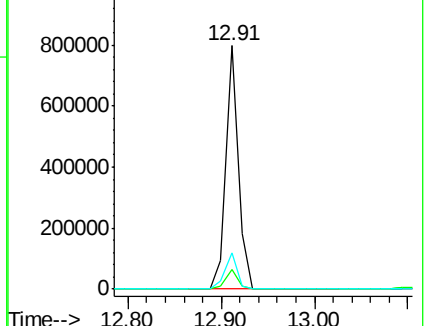
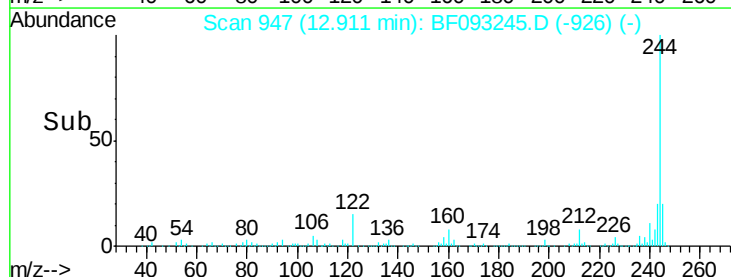
122 14.8 11.4 17.2

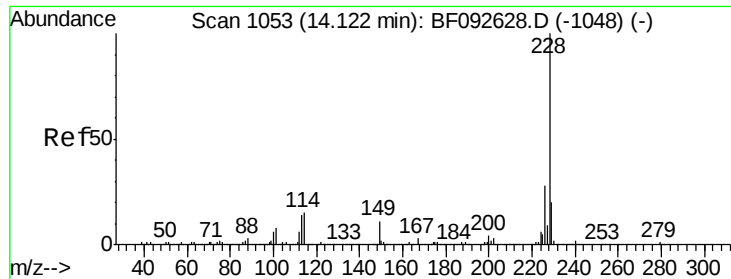


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





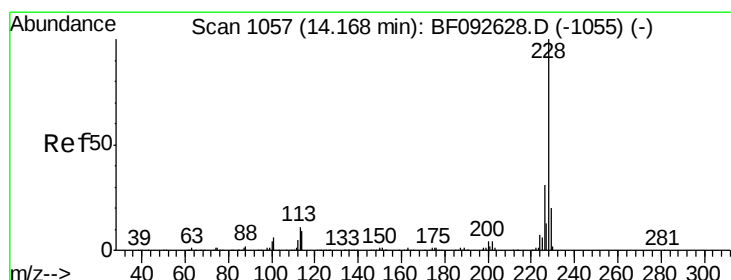
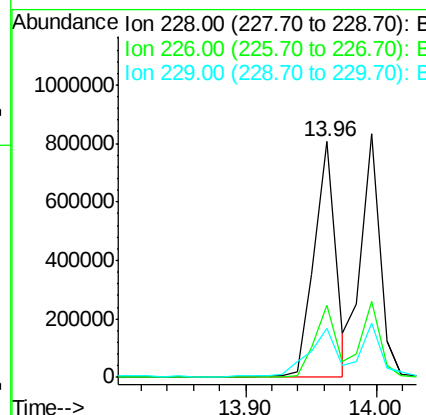
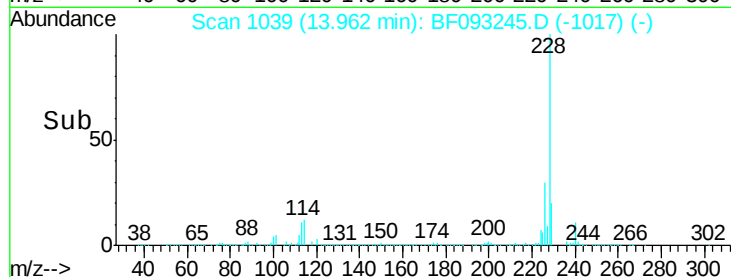
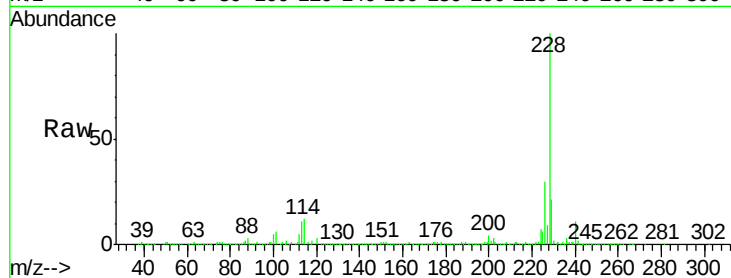
#80
Benzo(a)anthracene
Concen: 53.51 ng
RT: 13.96 min Scan# 1039
Delta R.T. -0.05 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-15-41-COMP

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.4	33.6
229	20.8	16.2	24.4

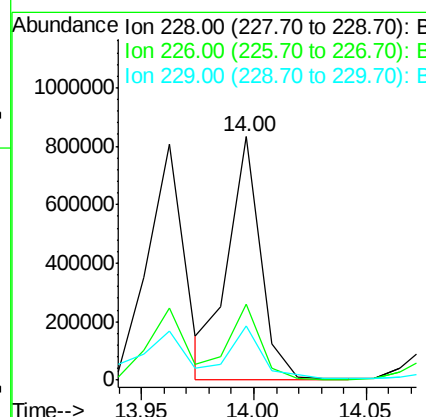
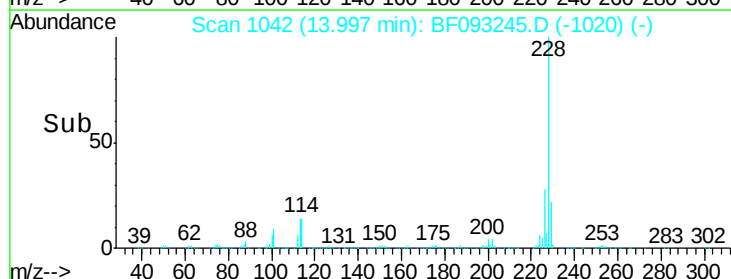
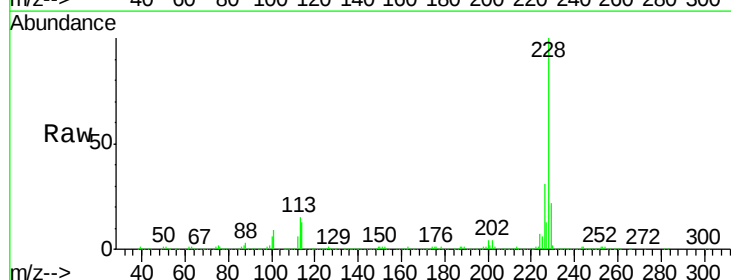
Manual Integrations
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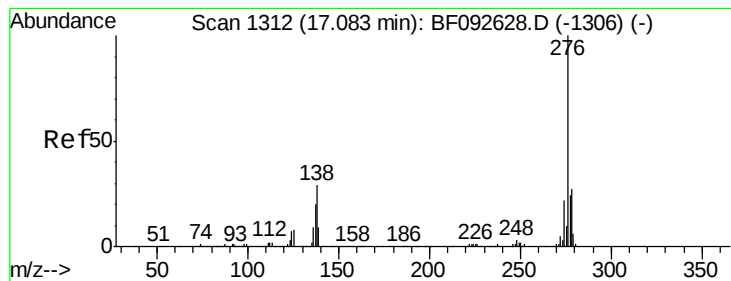
mohammad
3/1/2017 4:05:56 PM



#82
Chrysene
Concen: 52.74 ng m
RT: 14.00 min Scan# 1042
Delta R.T. -0.05 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.4	38.0
229	22.1	16.2	24.2





#85

Indeno(1,2,3-cd)pyrene

Concen: 45.08 ng

RT: 16.79 min Scan# 1286

Delta R.T. -0.07 min

Lab File: BF093245.D

Acq: 28 Feb 2017 13:41

Instrument :

BNA_F

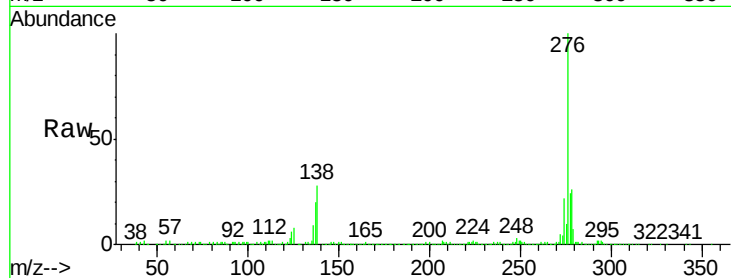
ClientSampleId :

ROLL-OFF-15-41-COMP

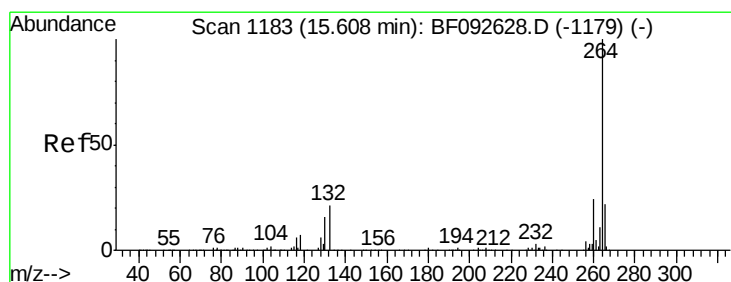
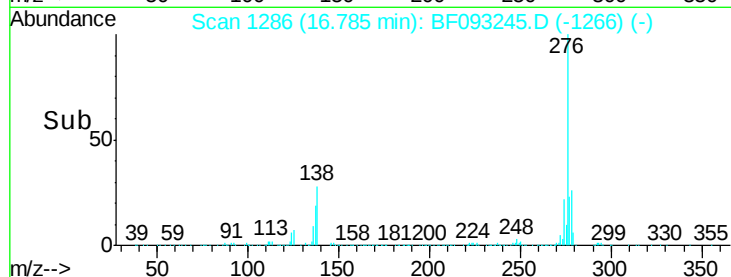
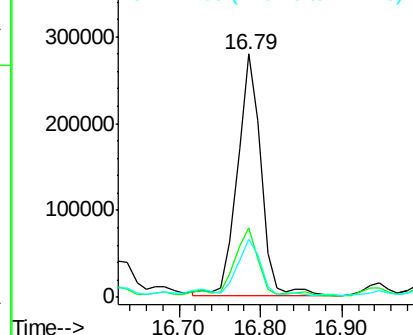
Tgt Ion:	276	Resp:	558918
Ion Ratio		Lower	Upper
276	100		
138	28.1	21.8	32.6
277	21.4	20.2	30.4

Manual Integrations
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3/1/2017 4:05:56 PM



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

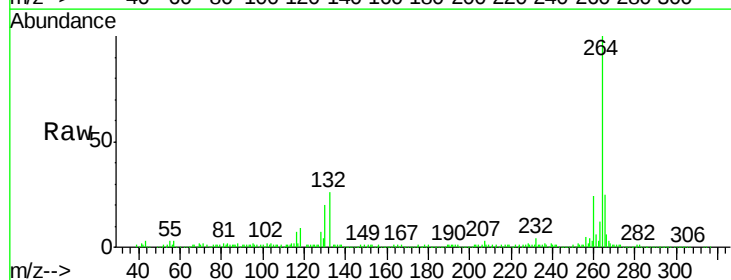
RT: 15.39 min Scan# 1164

Delta R.T. -0.06 min

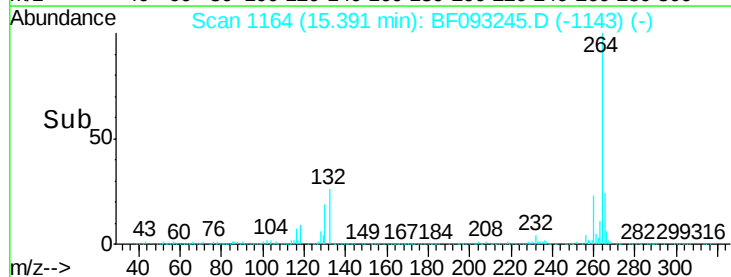
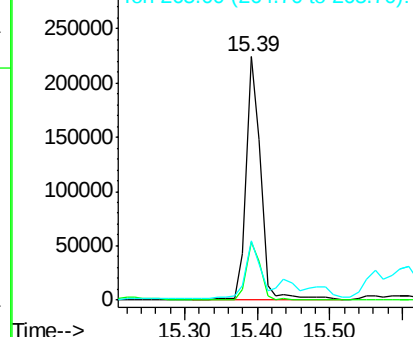
Lab File: BF093245.D

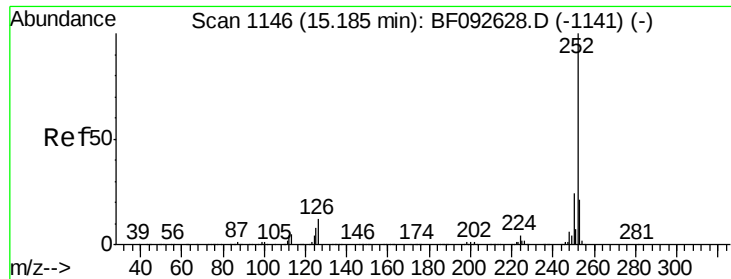
Acq: 28 Feb 2017 13:41

Tgt Ion:	264	Resp:	308836
Ion Ratio		Lower	Upper
264	100		
260	23.9	19.2	28.8
265	24.5	17.4	26.0



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





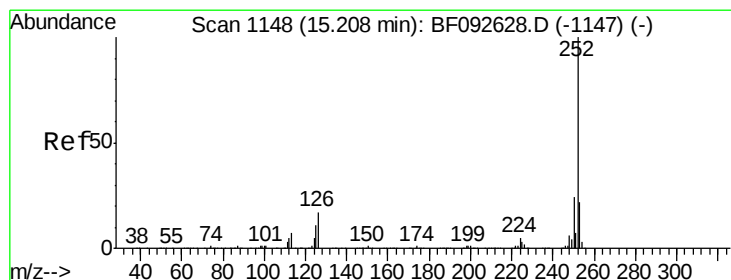
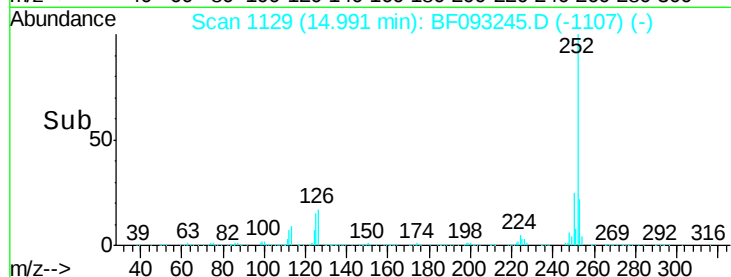
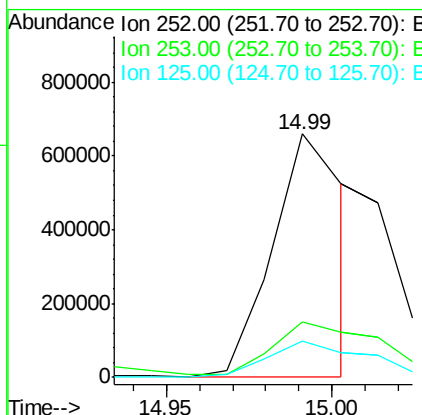
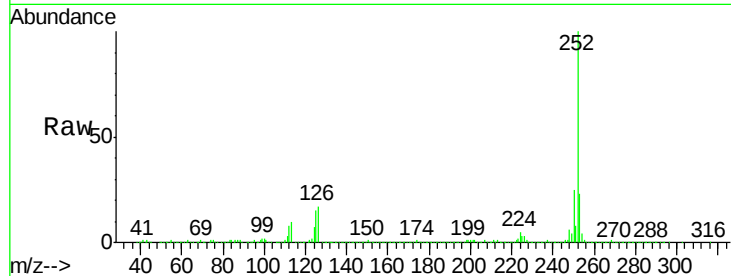
#87
Benzo(b)fluoranthene
Concen: 49.58 ng m
RT: 14.99 min Scan# 1129
Delta R.T. -0.05 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-15-41-COMP

Tgt Ion: 252 Resp: 1007893
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.4
125 14.8 9.8 14.6#

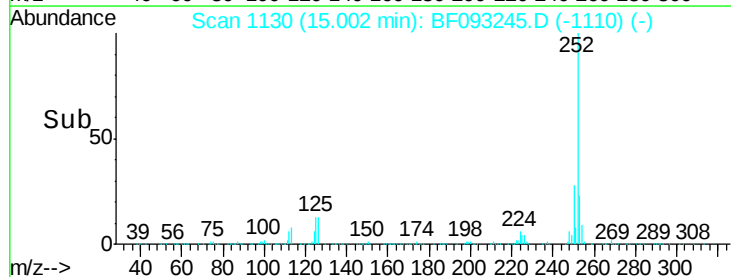
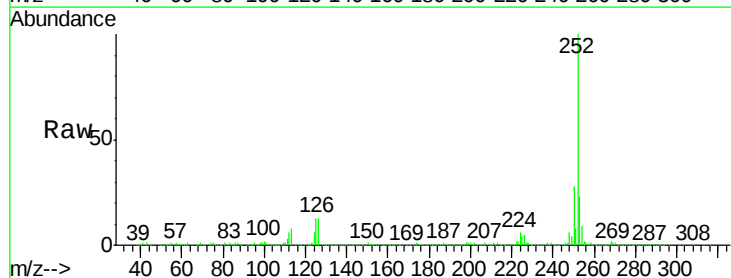
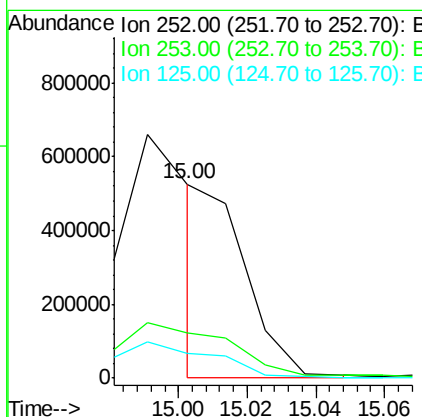
Manual Integrations
APPROVED

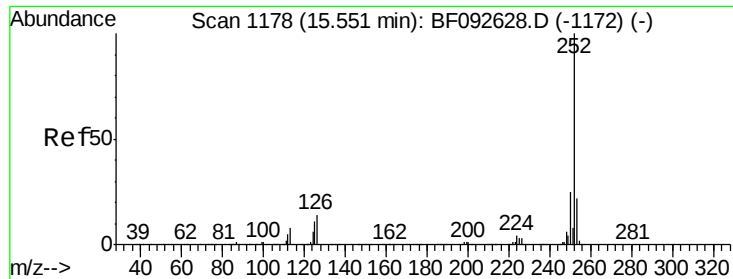
mohammad
3/1/2017 4:05:56 PM



#88
Benzo(k)fluoranthene
Concen: 24.31 ng m
RT: 15.00 min Scan# 1130
Delta R.T. -0.07 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

Tgt Ion: 252 Resp: 426691
Ion Ratio Lower Upper
252 100
253 23.1 18.5 27.7
125 13.1 8.9 13.3





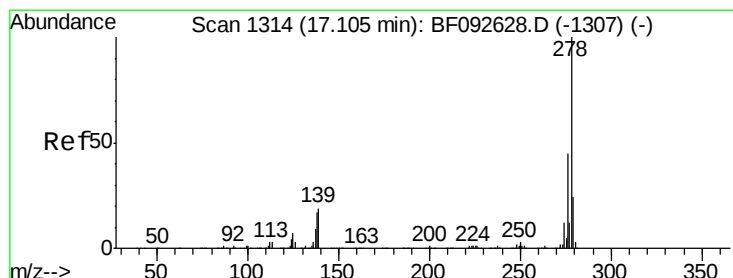
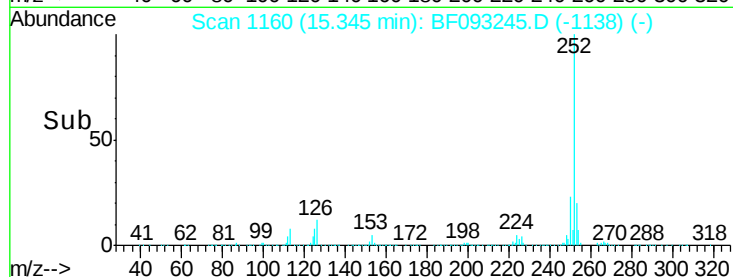
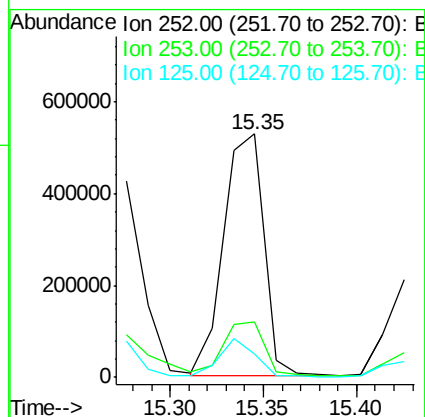
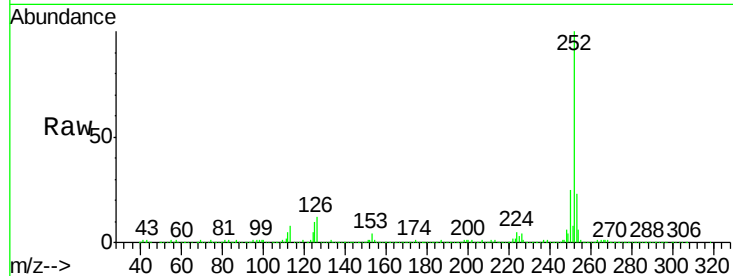
#89
Benzo(a)pyrene
Concen: 45.54 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-15-41-COMP

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.7	18.2	27.2
125	9.7	10.0	15.0

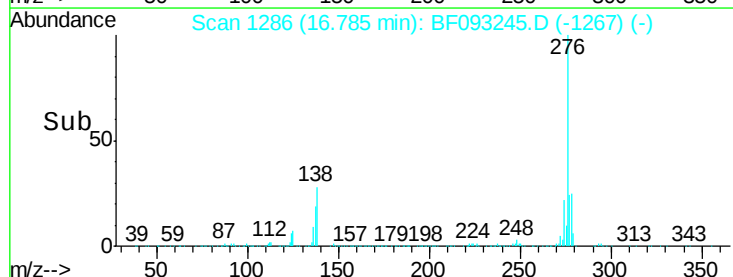
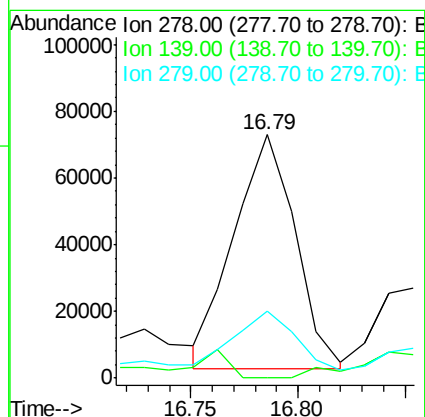
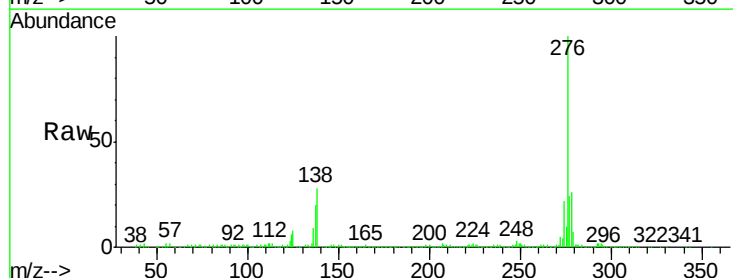
Manual Integrations
APPROVED

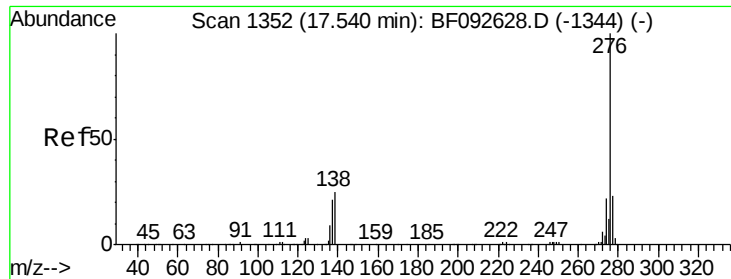
mohammad
3/1/2017 4:05:56 PM



#90
Dibenzo(a,h)anthracene
Concen: 9.83 ng m
RT: 16.79 min Scan# 1286
Delta R.T. -0.08 min
Lab File: BF093245.D
Acq: 28 Feb 2017 13:41

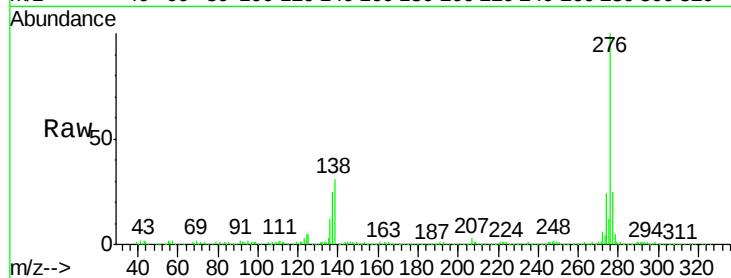
Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	0.0	14.8	22.2
279	27.3	19.8	29.6





#91
 Benzo(g,h,i)perylene
 Concen: 33.11 ng
 RT: 17.21 min Scan# 1323
 Delta R.T. -0.08 min
 Lab File: BF093245.D
 Acq: 28 Feb 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-15-41-COMP



Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.2	28.8
138	30.6	16.0	24.0

Manual Integrations
 APPROVED

mohammad
 3/1/2017 4:05:56 PM

