

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
 Data File : BF093785.D
 Acq On : 21 Mar 2017 00:55
 Operator : SJ/MA
 Sample : I2280-01 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-1

Manual Integrations
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Quant Time: Mar 21 02:24:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 20 16:03:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	237836	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	909612	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	373047	20.00	ng	-0.01
63) Phenanthrene-d10	11.35	188	601405	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	394034	20.00	ng	-0.02
86) Perylene-d12	15.39	264	341796	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	35915	2.64	ng	-0.02
7) Phenol-d6	6.45	99	42911	2.55	ng	-0.03
23) Nitrobenzene-d5	7.38	82	23466	1.46	ng	-0.02
41) 2,4,6-Tribromophenol	10.65	330	3653	1.26	ng	-0.02
44) 2-Fluorobiphenyl	9.19	172	53127	2.39	ng	-0.02
78) Terphenyl-d14	12.93	244	35321	1.83	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.15	128	2683835	63.57	ng	99
37) 2-Methylnaphthalene	8.84	142	343678	12.47	ng	98
45) 1,1'-Biphenyl	9.29	154	88503	2.92	ng	97
48) Acenaphthylene	9.73	152	362985	9.59	ng	99
51) Acenaphthene	9.90	154	52118	2.31	ng	99
54) Dibenzofuran	10.07	168	262771	8.64	ng	96
57) Fluorene	10.41	166	306763	13.17	ng	100
70) Phenanthrene	11.37	178	1011120	31.57	ng	100
71) Anthracene	11.42	178	313303	9.50	ng	99
72) Carbazole	11.57	167	110167	3.37	ng	98
74) Fluoranthene	12.55	202	573076	17.41	ng	94
77) Pyrene	12.78	202	504268	15.38	ng	99
80) Benzo(a)anthracene	13.97	228	207643m	8.41	ng	
82) Chrysene	14.00	228	151300m	6.14	ng	
85) Indeno(1,2,3-cd)pyrene	16.73	276	54232	2.69	ng	95
87) Benzo(b)fluoranthene	14.99	252	174130m	7.56	ng	
88) Benzo(k)fluoranthene	15.01	252	61062m	3.59	ng	
89) Benzo(a)pyrene	15.32	252	139058	7.44	ng	# 95
91) Benzo(a,h,i)perylene	17.15	276	51123	3.32	ng	97

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

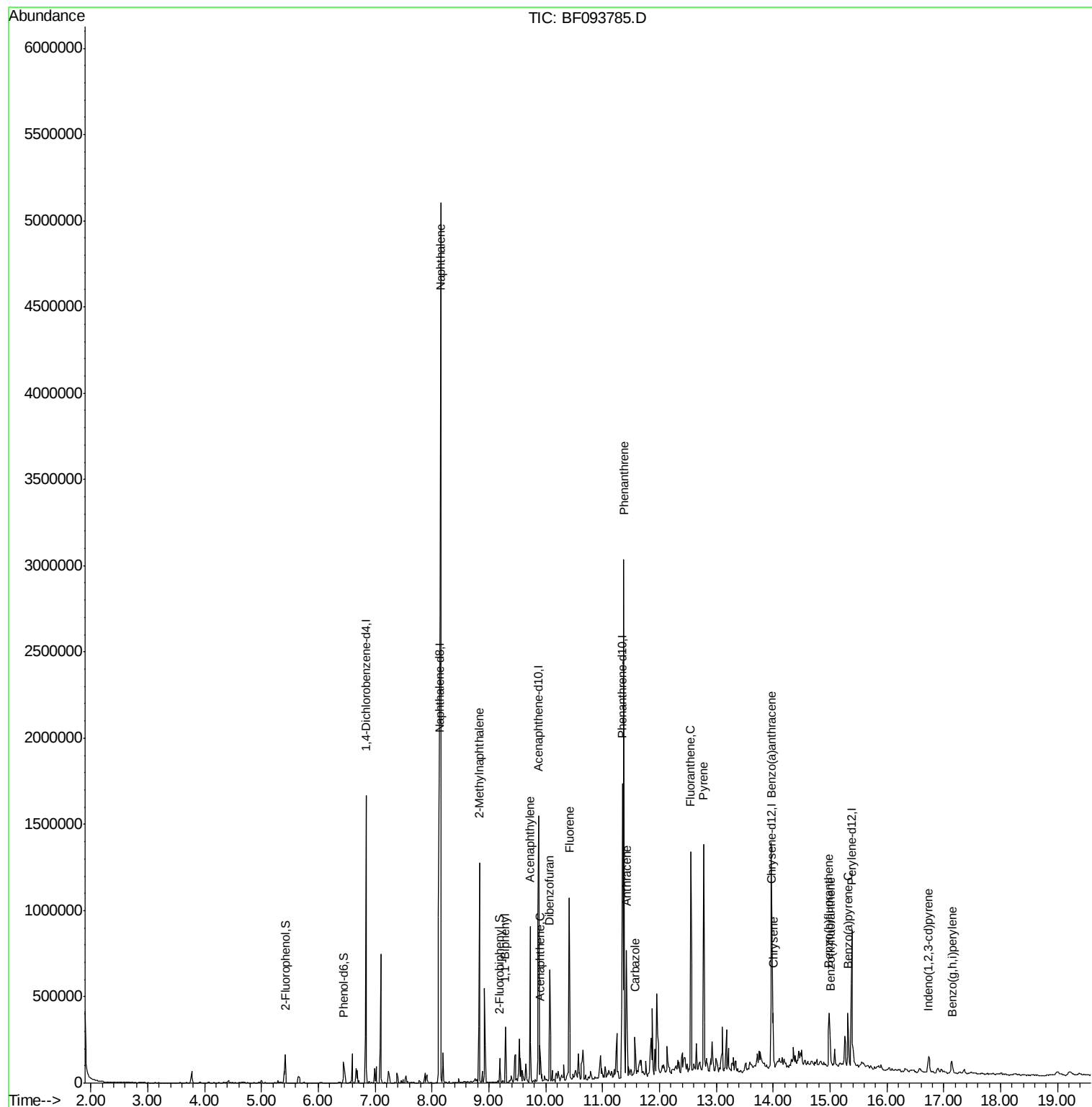
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
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ALS Vial : 20 Sample Multiplier: 1

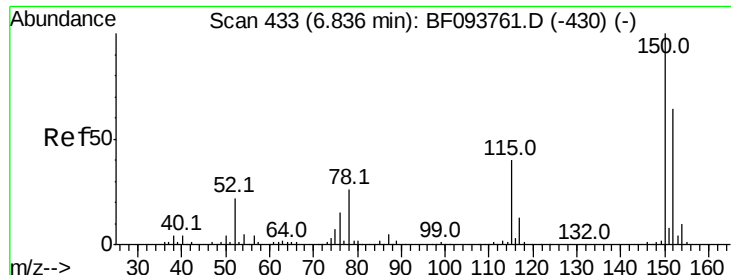
Instrument :
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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

ClientSampleId :

CTMIX-1

Tot Ion:152 Resp: 237836

Ion Ratio Lower Upper

152 100

150 153.7 126.2 189.2

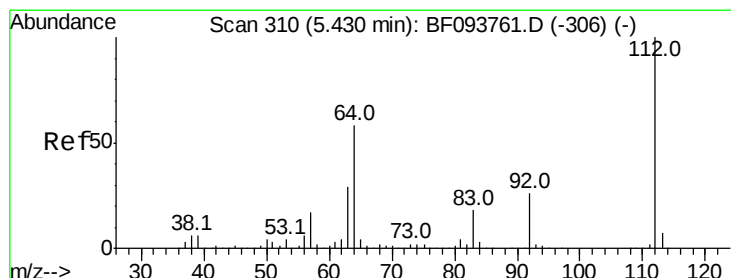
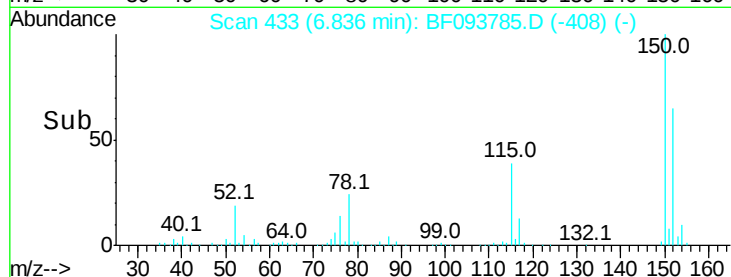
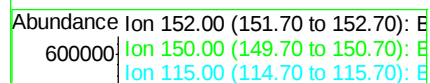
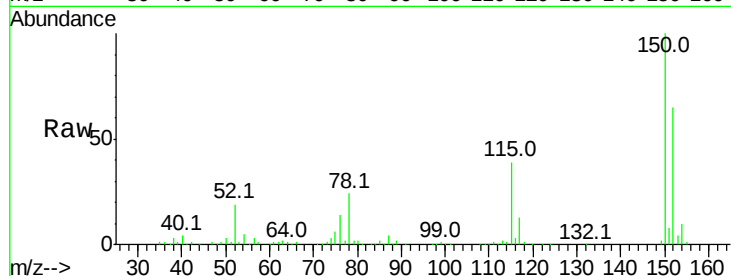
115 60.2 52.2 78.2

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#5

2-Fluorophenol

Concen: 2.64 ng

RT: 5.42 min Scan# 309

Delta R.T. -0.02 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

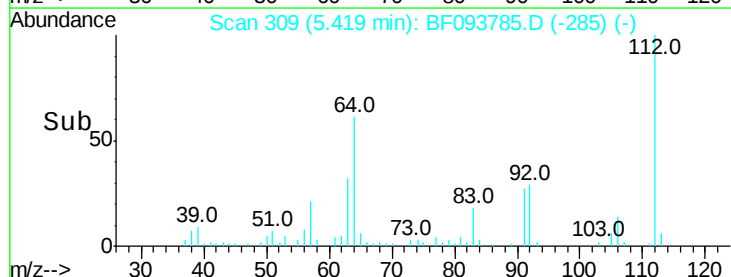
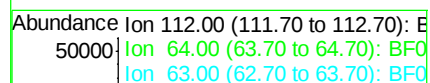
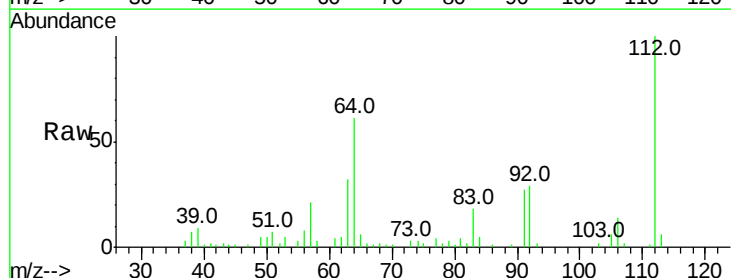
Tgt Ion:112 Resp: 35915

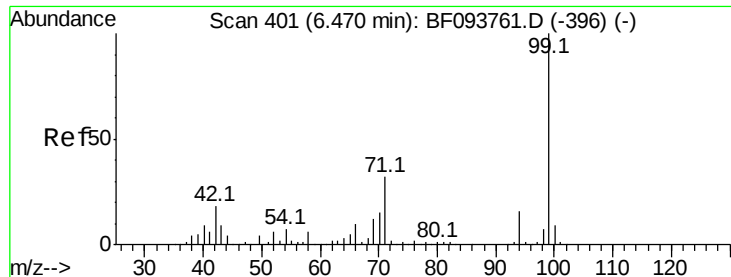
Ion Ratio Lower Upper

112 100

64 60.6 46.0 69.0

63 32.1 23.4 35.0





#7

Phenol-d6

Concen: 2.55 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.03 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

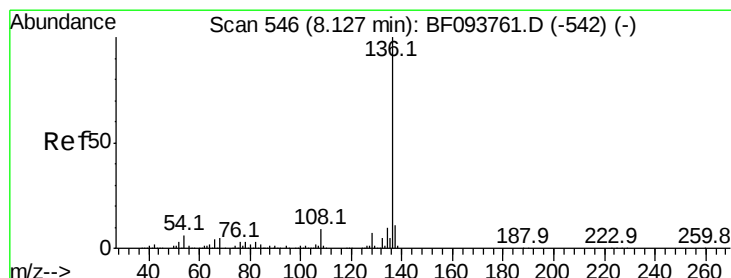
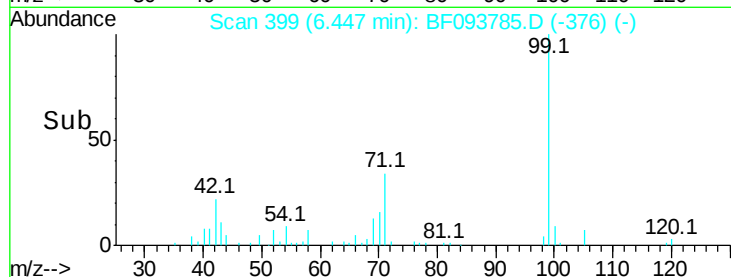
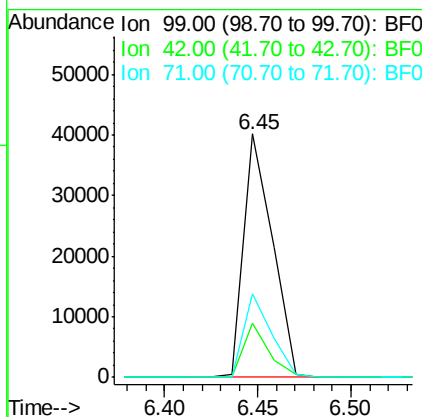
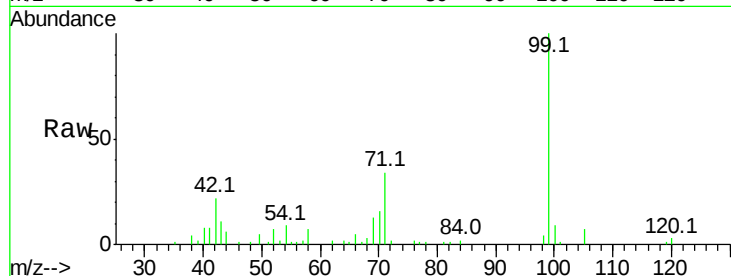
ClientSampled :

CTMIX-1

Tot Ion:	99	Resp:	42911
Ion Ratio	Lower	Upper	
99	100		
42	22.3	13.5	20.3#
71	34.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

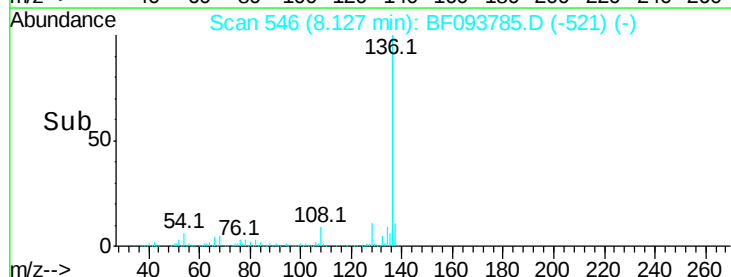
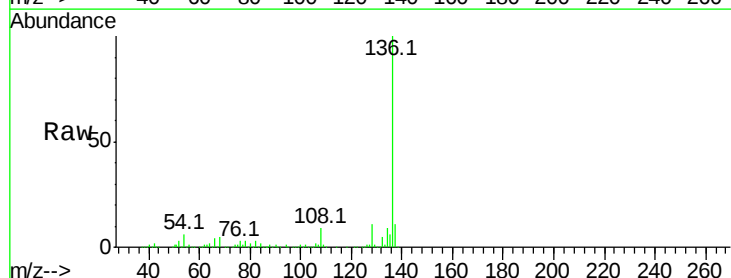
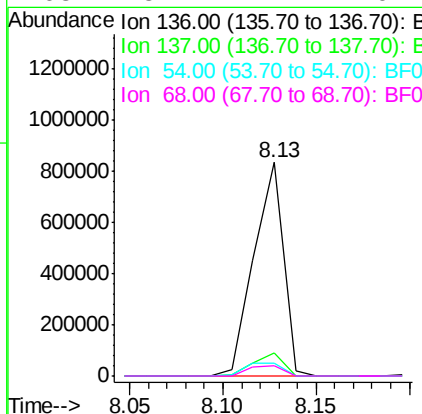
RT: 8.13 min Scan# 546

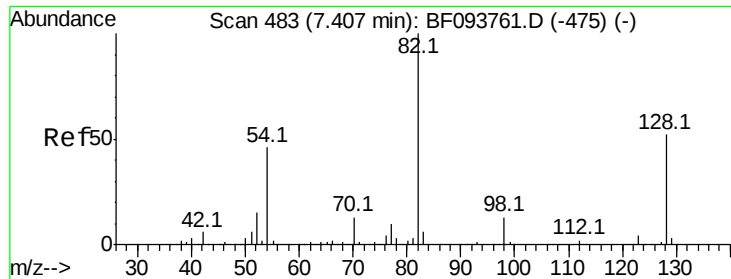
Delta R.T. -0.01 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Tgt Ion:	136	Resp:	909612
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	6.1	4.9	7.3
68	5.1	4.1	6.1





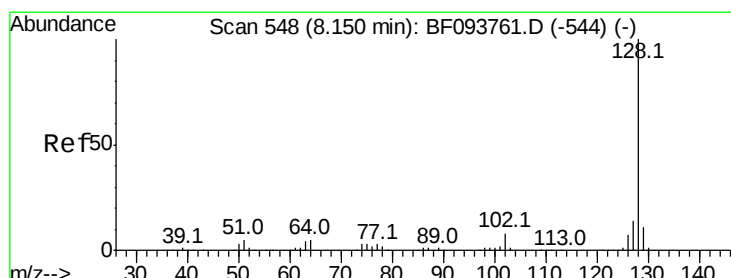
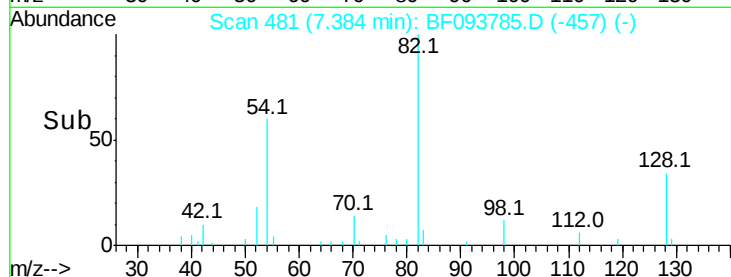
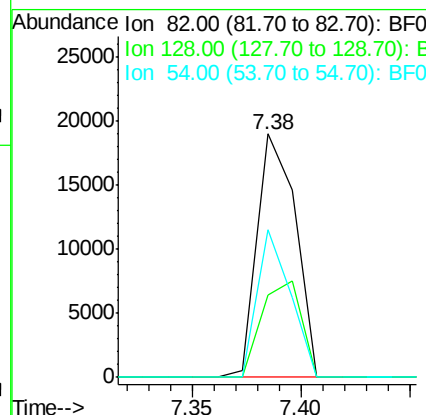
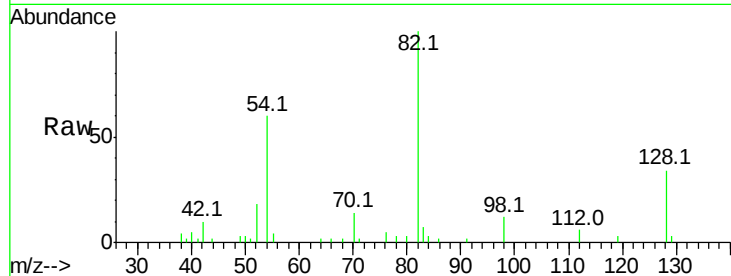
#23
Nitrobenzene-d5
Concen: 1.46 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.02 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Instrument :
BNA_F
ClientSampled :
CTMIX-1

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.9	34.0	51.0#
54	60.4	42.2	63.2

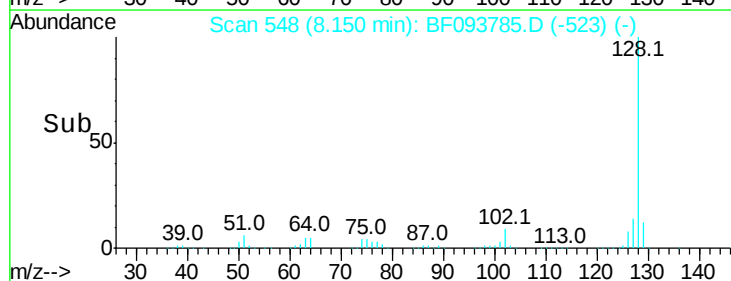
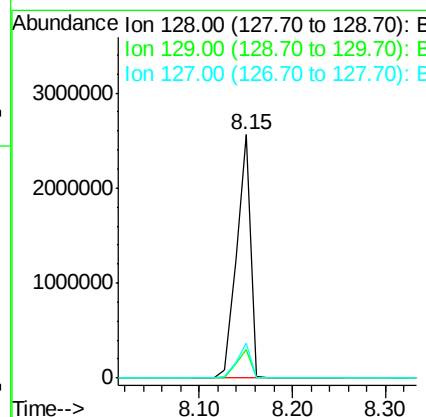
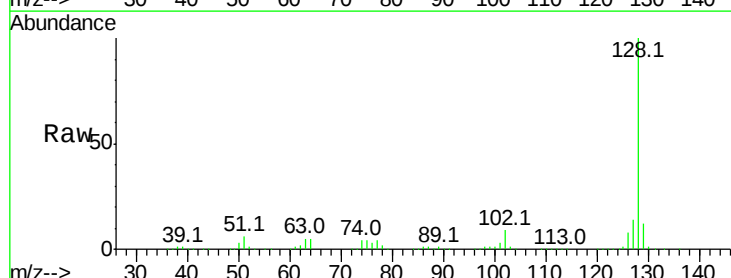
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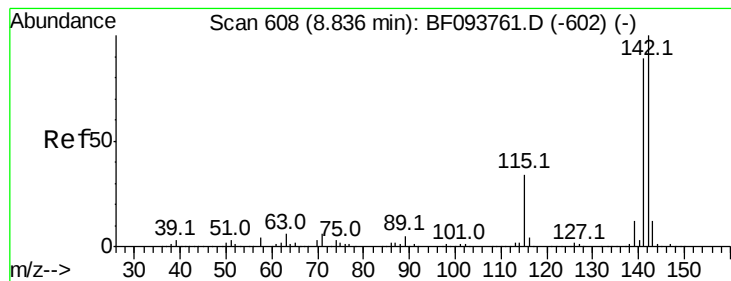
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#31
Naphthalene
Concen: 63.57 ng
RT: 8.15 min Scan# 548
Delta R.T. -0.01 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.0	13.6
127	14.2	10.8	16.2





#37

2-Methylnaphthalene

Concen: 12.47 ng

RT: 8.84 min Scan# 608

Delta R.T. -0.01 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

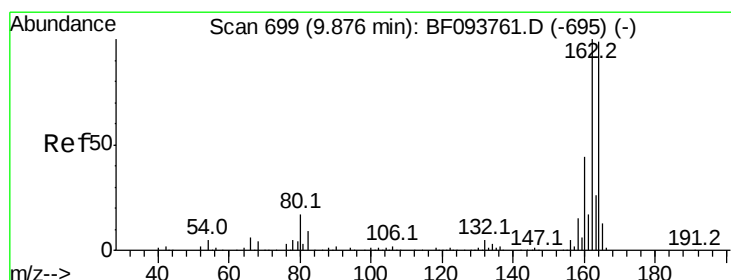
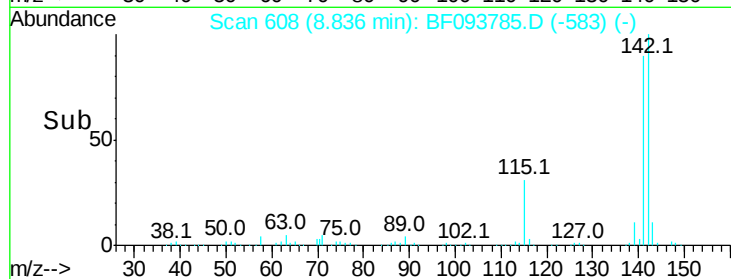
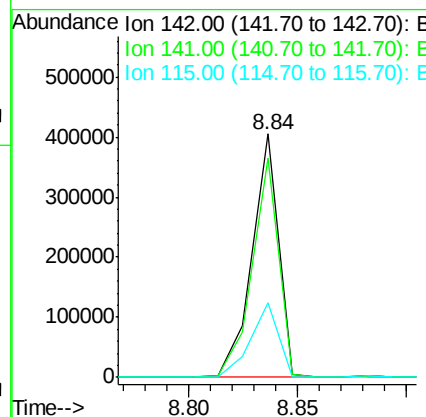
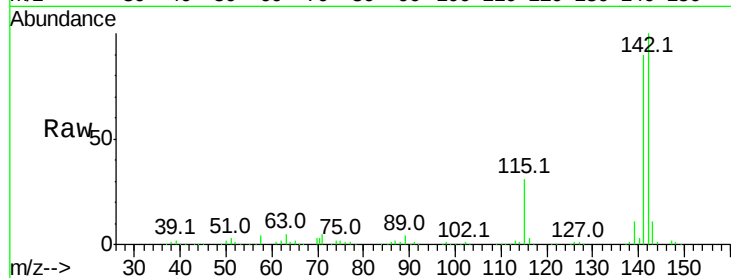
ClientSampled :

CTMIX-1

Tot Ion:	142	Resp:	343678
Ion Ratio	Lower	Upper	
142	100		
141	90.1	71.3	106.9
115	30.6	27.1	40.7

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#38

Acenaphthene-d10

Concen: 20.00 ng

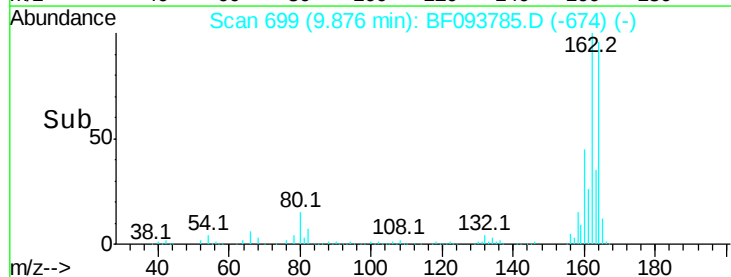
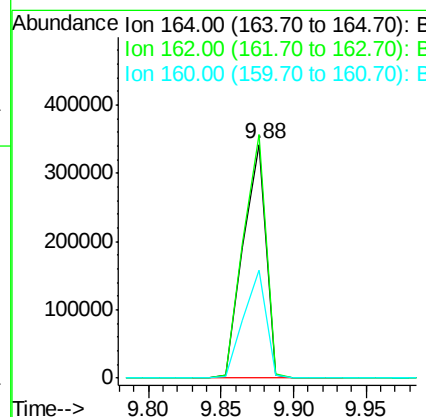
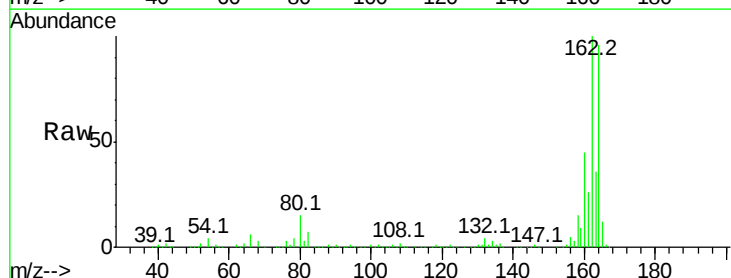
RT: 9.88 min Scan# 699

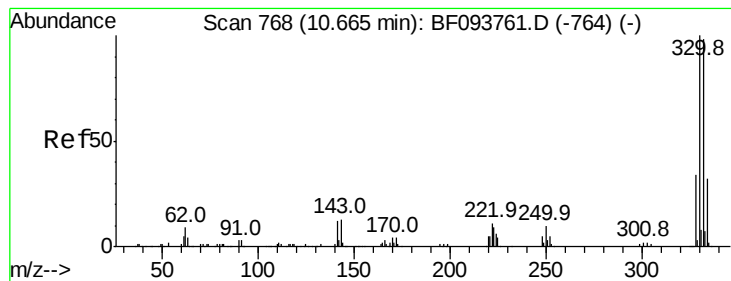
Delta R.T. -0.01 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Tgt Ion:	164	Resp:	373047
Ion Ratio	Lower	Upper	
164	100		
162	104.3	82.6	123.8
160	46.4	36.2	54.2





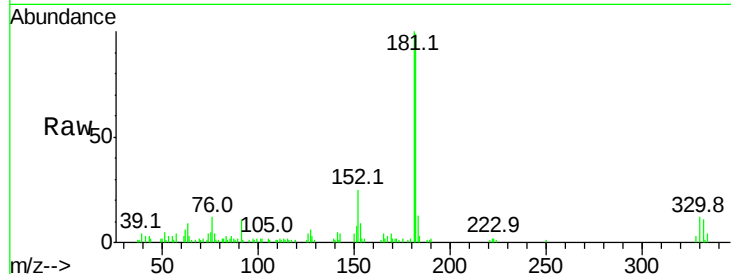
#41
 2,4,6-Tribromophenol
 Concen: 1.26 ng
 RT: 10.65 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF093785.D
 Acq: 21 Mar 2017 00:55

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-1

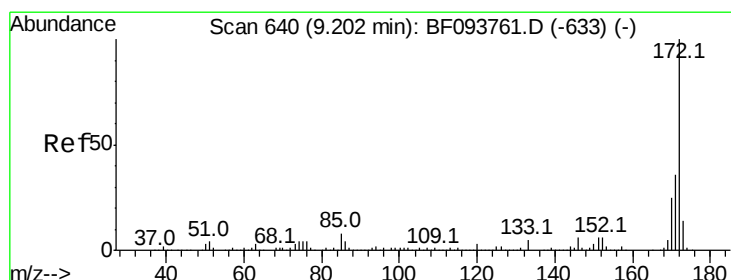
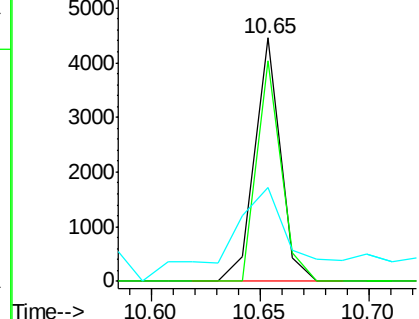
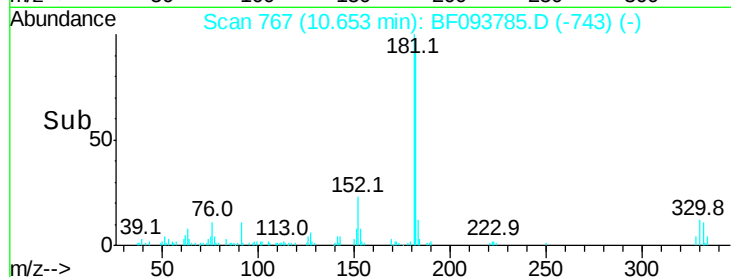
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	85.3	76.6	115.0	
141	100.5	31.4	47.2#	

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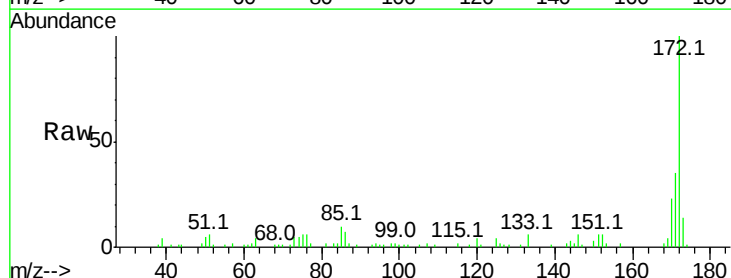


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

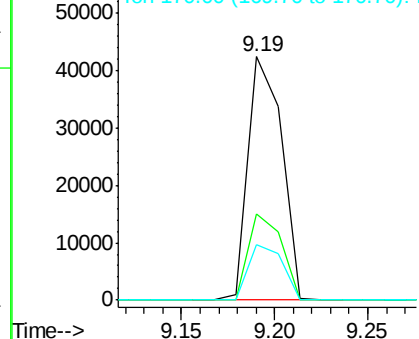
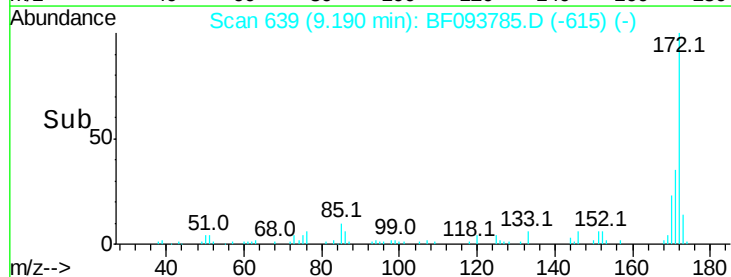


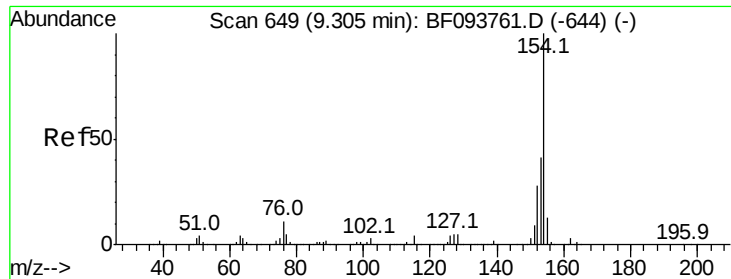
#44
 2-Fluorobiphenyl
 Concen: 2.39 ng
 RT: 9.19 min Scan# 639
 Delta R.T. -0.02 min
 Lab File: BF093785.D
 Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.1	29.6	44.4	
170	22.8	19.8	29.8	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 2.92 ng

RT: 9.29 min Scan# 648

Delta R.T. -0.02 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

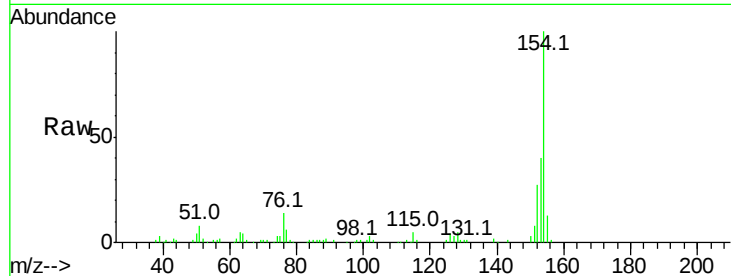
ClientSampleId :

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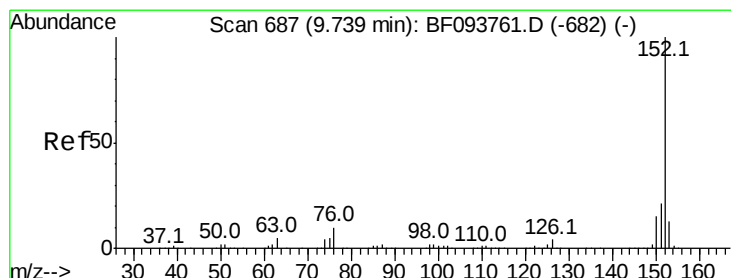
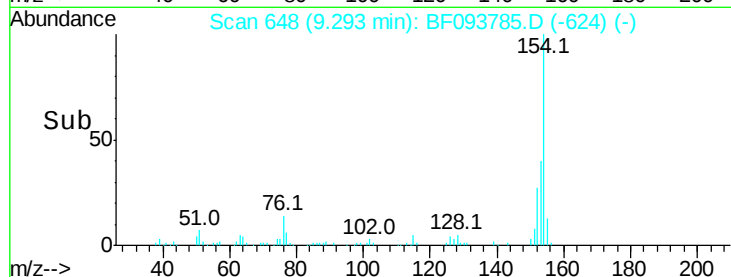
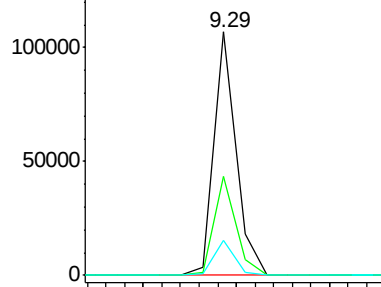
Tot Ion:	154	Resp:	88503
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.2	61.2
76	14.2	0.0	29.9

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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: 9.59 ng

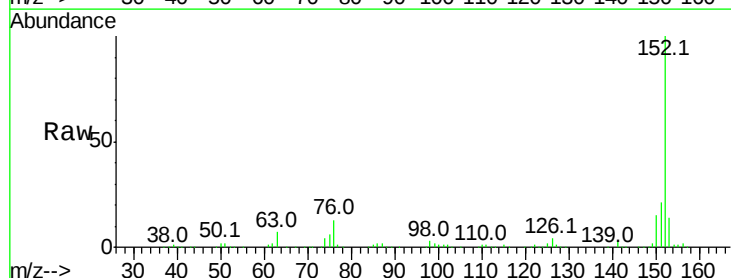
RT: 9.73 min Scan# 686

Delta R.T. -0.02 min

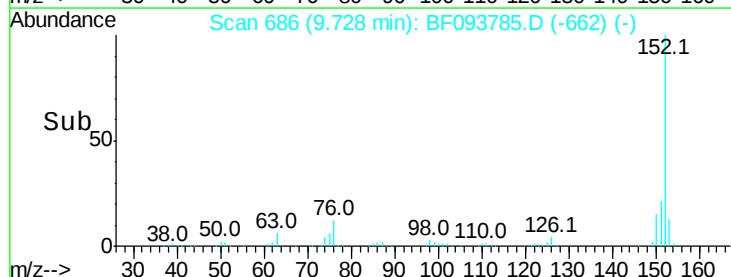
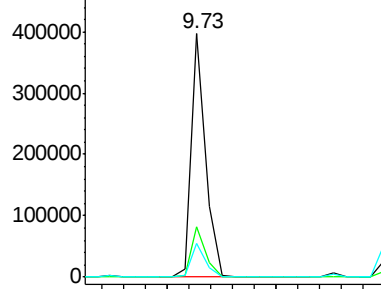
Lab File: BF093785.D

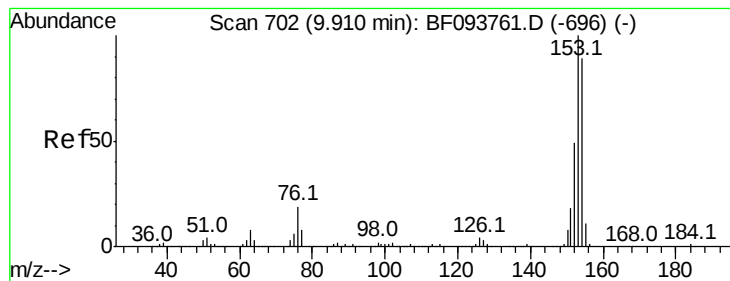
Acq: 21 Mar 2017 00:55

Tgt Ion:	152	Resp:	362985
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.8	25.2
153	14.0	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





#51

Acenaphthene

Concen: 2.31 ng

RT: 9.90 min Scan# 701

Delta R.T. -0.02 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

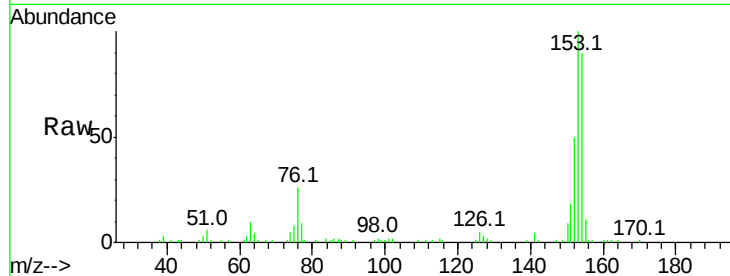
ClientSampleId :

CTMIX-1

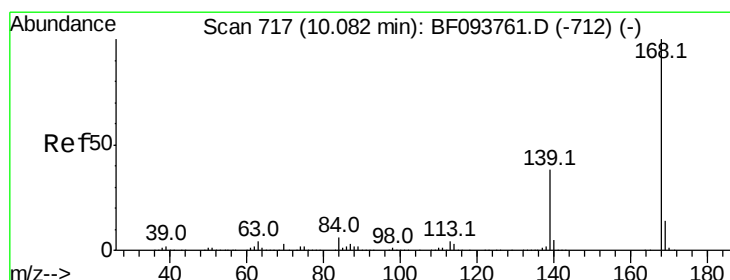
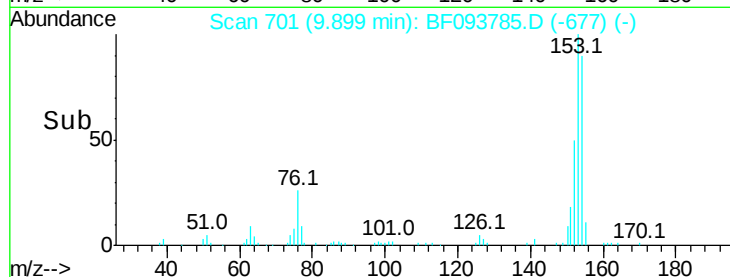
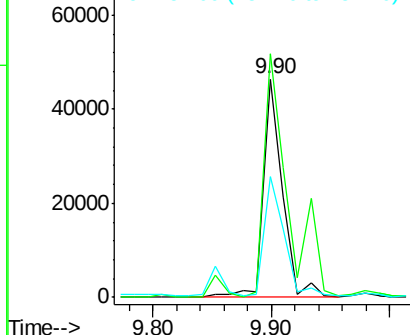
Tot Ion:	154	Resp:	52118
Ion Ratio	Lower	Upper	
154	100		
153	111.5	90.5	135.7
152	55.2	43.6	65.4

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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



#54

Dibenzofuran

Concen: 8.64 ng

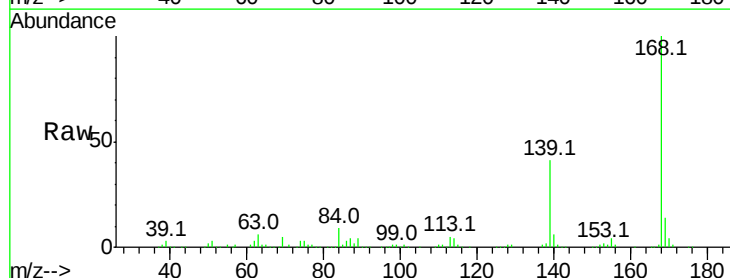
RT: 10.07 min Scan# 716

Delta R.T. -0.02 min

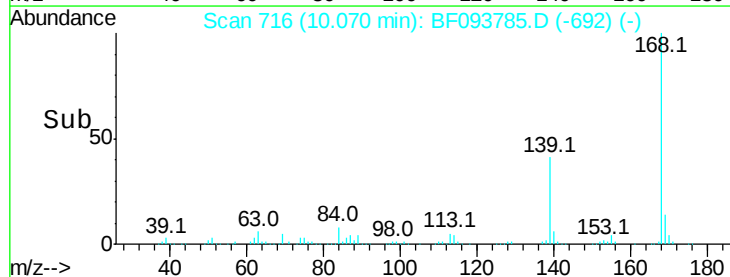
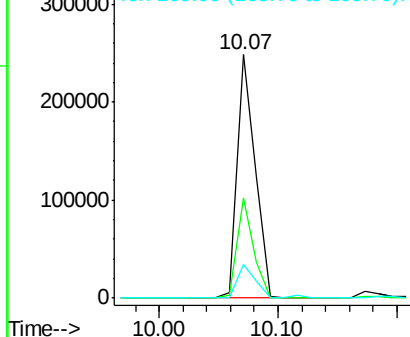
Lab File: BF093785.D

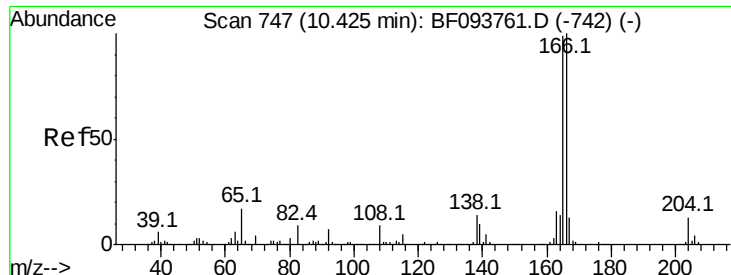
Acq: 21 Mar 2017 00:55

Tgt Ion:	168	Resp:	262771
Ion Ratio	Lower	Upper	
168	100		
139	41.4	30.6	45.8
169	14.0	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 13.17 ng

RT: 10.41 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

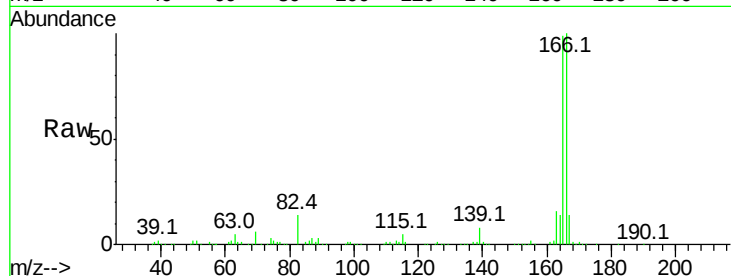
ClientSampleId :

CTMIX-1

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.8	118.2
167	13.6	10.6	16.0

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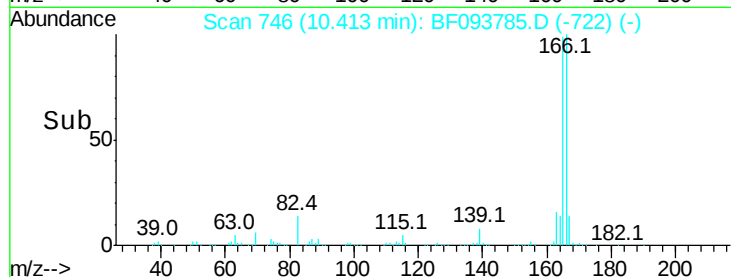


Abundance Ion 166.00 (165.70 to 166.70): E

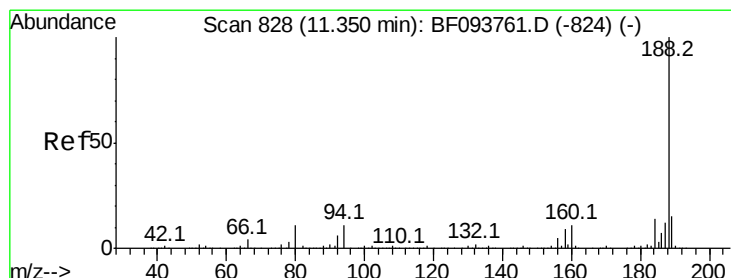
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

10.41



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

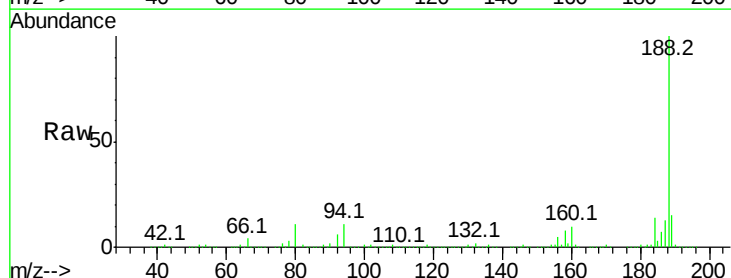
RT: 11.35 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	9.4	14.2
80	10.8	10.2	15.2

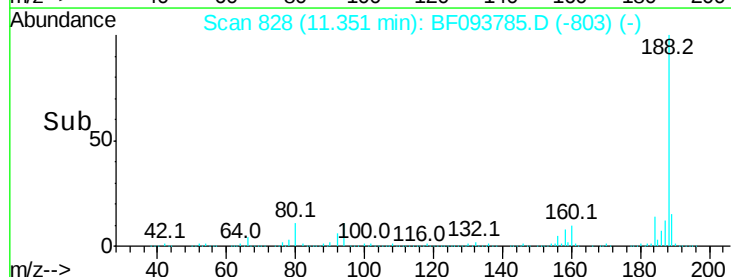


Abundance Ion 188.00 (187.70 to 188.70): E

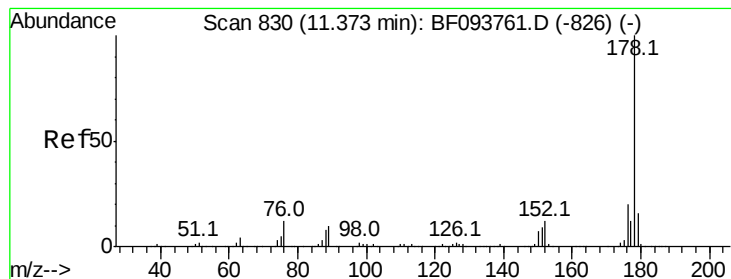
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

11.35



Time-->



#70

Phenanthrene

Concen: 31.57 ng

RT: 11.37 min Scan# 830

Delta R.T. -0.01 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

ClientSampleId :

CTMIX-1

Tot Ion:178 Resp: 1011120

Ion Ratio Lower Upper

178 100

176 19.9 16.2 24.4

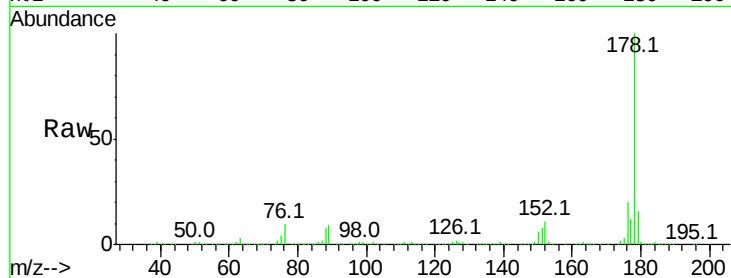
179 15.8 12.6 19.0

Manual Integrations

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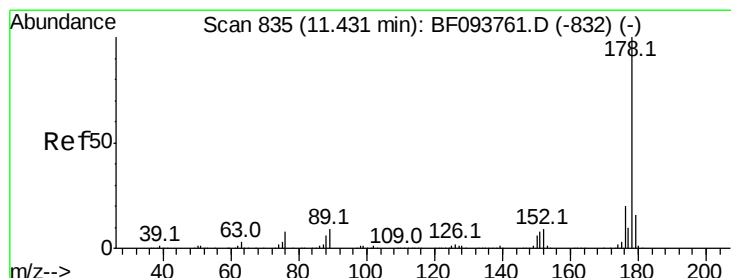
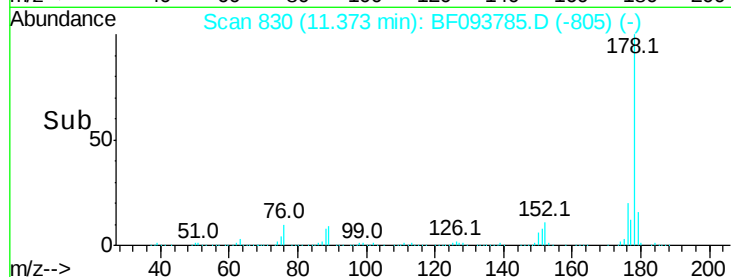
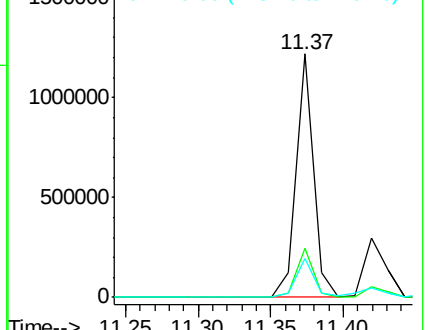
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 9.50 ng

RT: 11.42 min Scan# 834

Delta R.T. -0.02 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

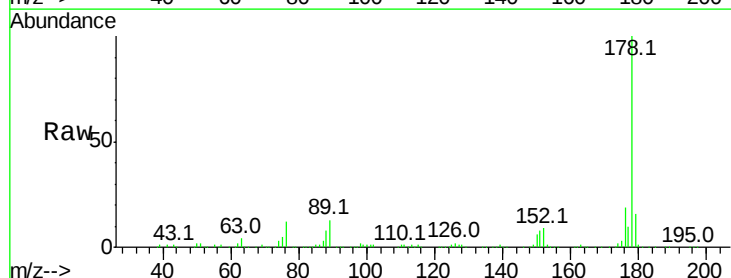
Tgt Ion:178 Resp: 313303

Ion Ratio Lower Upper

178 100

176 19.1 15.8 23.8

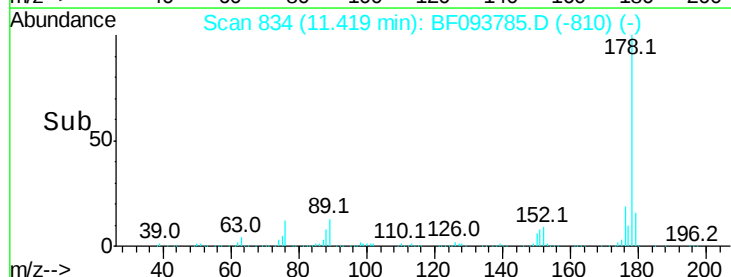
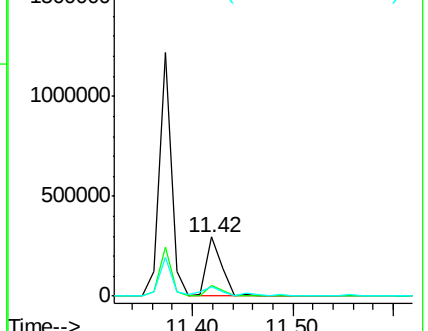
179 15.9 12.7 19.1

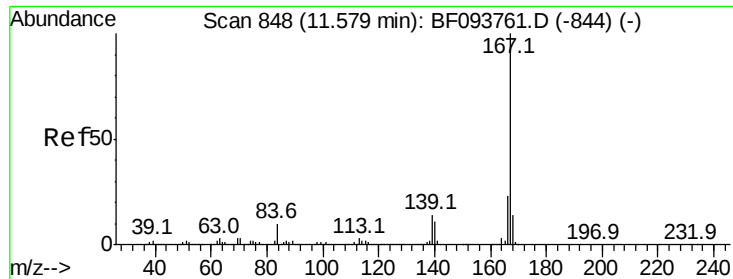


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





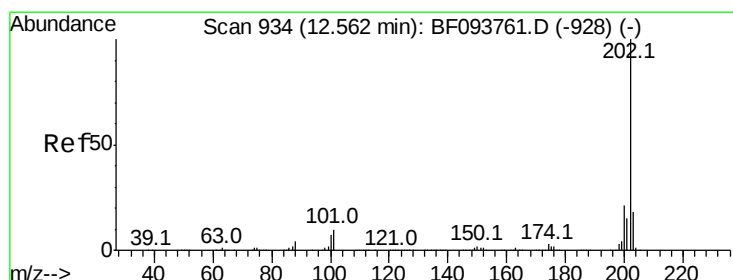
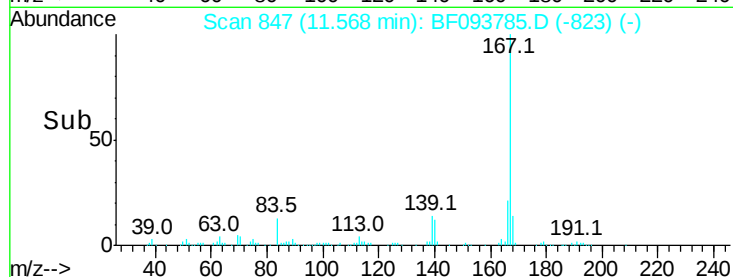
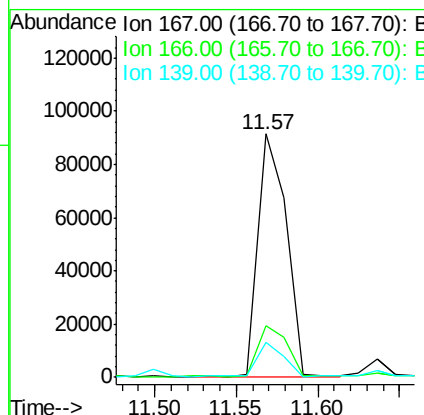
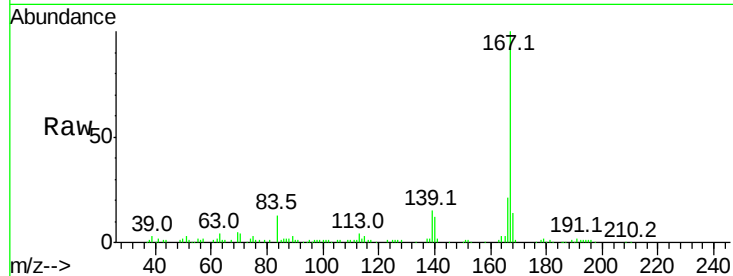
#72
 Carbazole
 Concen: 3.37 ng
 RT: 11.57 min Scan# 847
 Delta R.T. -0.02 min
 Lab File: BF093785.D
 Acq: 21 Mar 2017 00:55

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-1

Tot Ion	Ratio	Resp	Lower	Upper
167	100	110167		
166	21.1		18.1	27.1
139	14.5		11.7	17.5

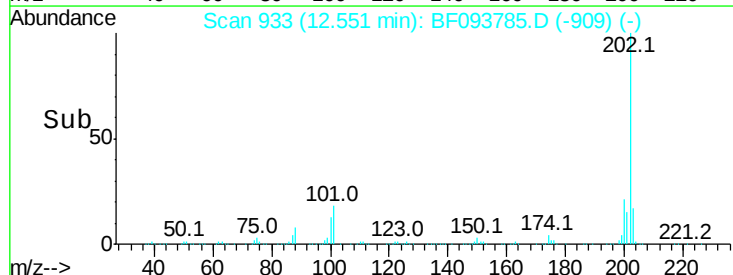
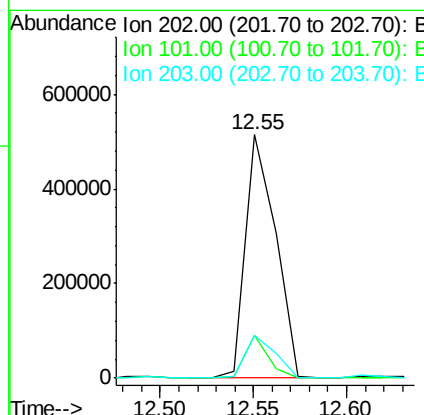
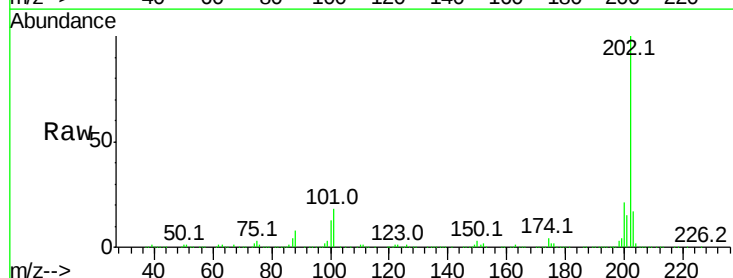
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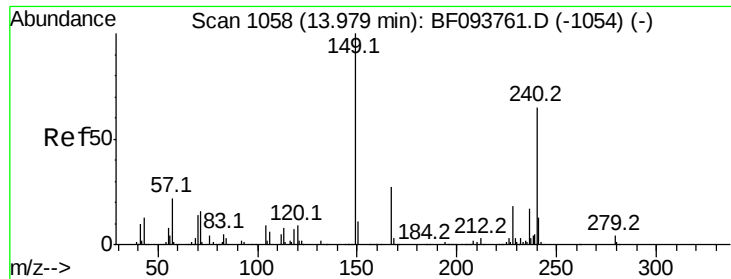
mohammad
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#74
 Fluoranthene
 Concen: 17.41 ng
 RT: 12.55 min Scan# 933
 Delta R.T. -0.02 min
 Lab File: BF093785.D
 Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	573076		
101	17.8		0.0	33.2
203	17.5		0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.98 min Scan# 1058

Delta R.T. -0.02 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

Instrument :

BNA_F

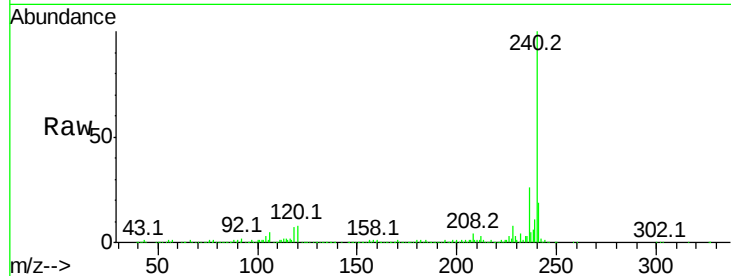
ClientSampled :

CTMIX-1

Tot Ion:	240	Resp:	394034
Ion Ratio	Lower	Upper	
240	100		
120	8.4	5.8	8.8
236	25.8	20.5	30.7

Manual Integrations
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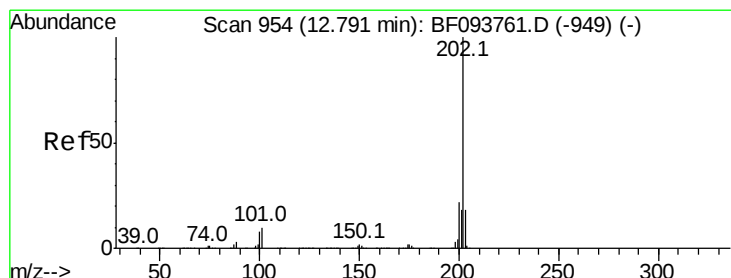
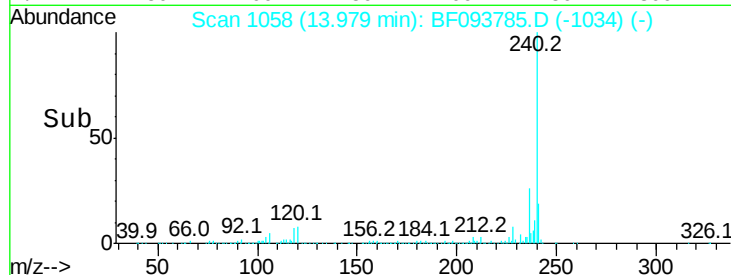
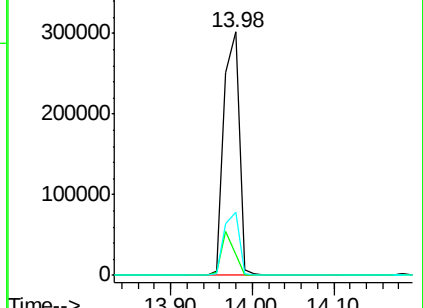
mohammad
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 15.38 ng

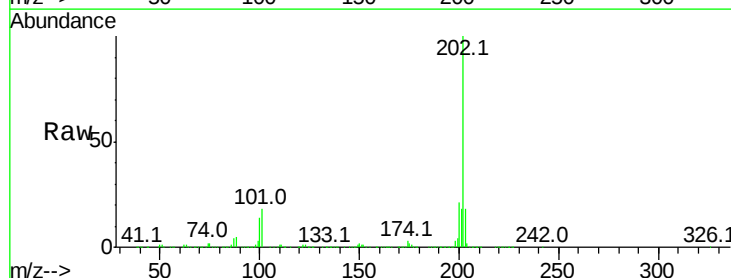
RT: 12.78 min Scan# 953

Delta R.T. -0.02 min

Lab File: BF093785.D

Acq: 21 Mar 2017 00:55

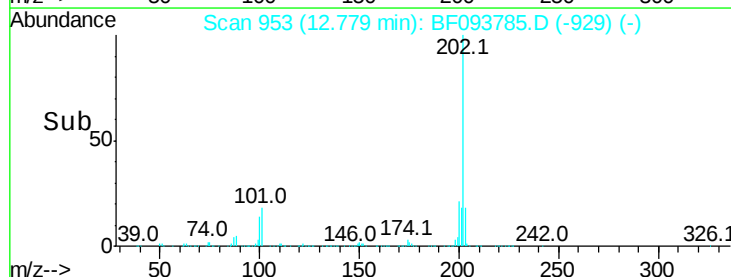
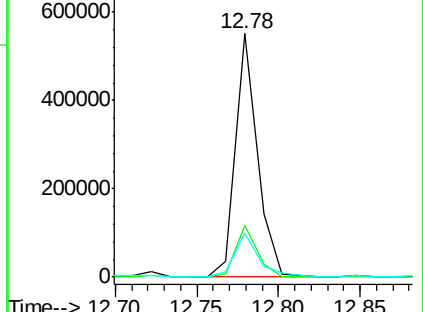
Tgt Ion:	202	Resp:	504268
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.6	26.4
203	18.0	14.4	21.6

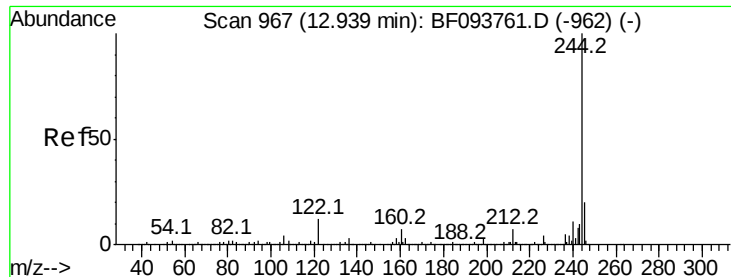


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





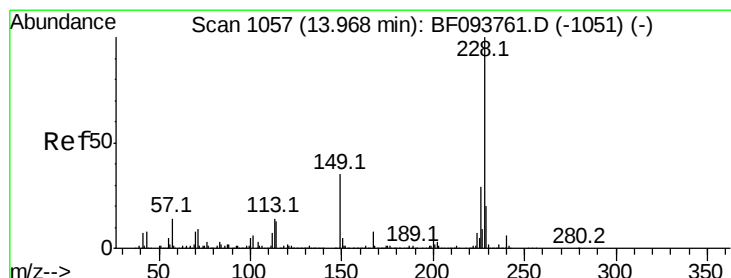
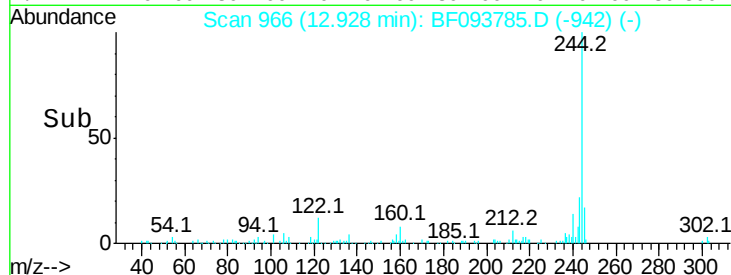
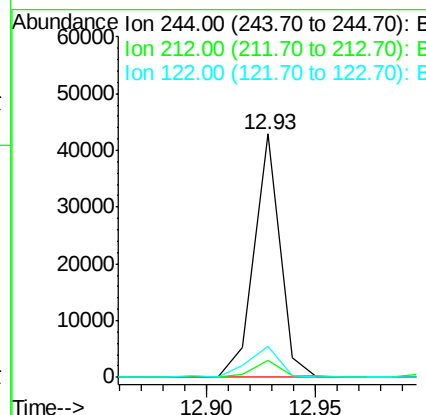
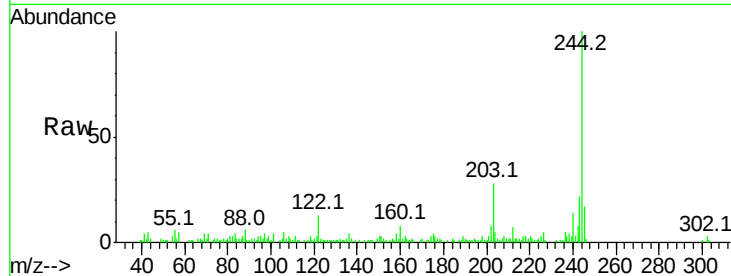
#78
 Terphenyl-d14
 Concen: 1.83 ng
 RT: 12.93 min Scan# 966
 Delta R.T. -0.02 min
 Lab File: BF093785.D
 Acq: 21 Mar 2017 00:55

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-1

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	12.8	10.3	15.5

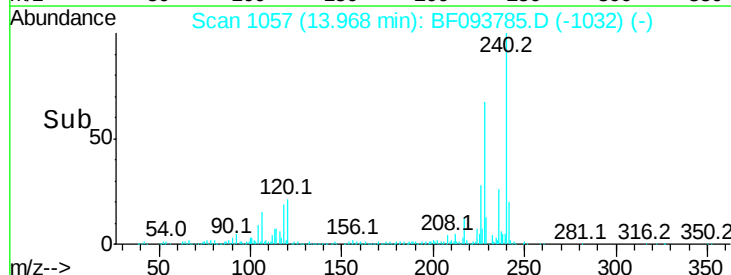
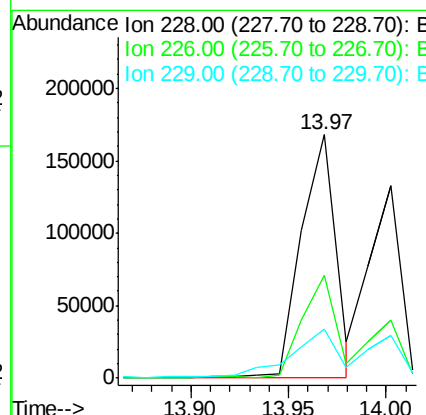
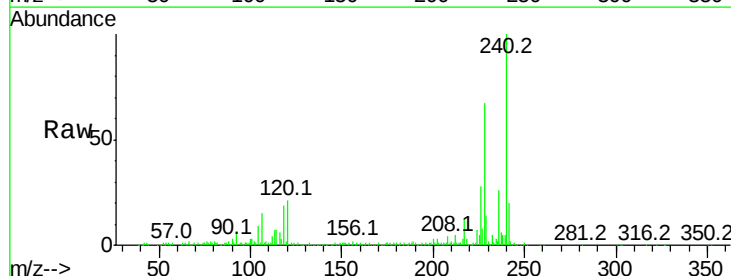
Manual Integrations
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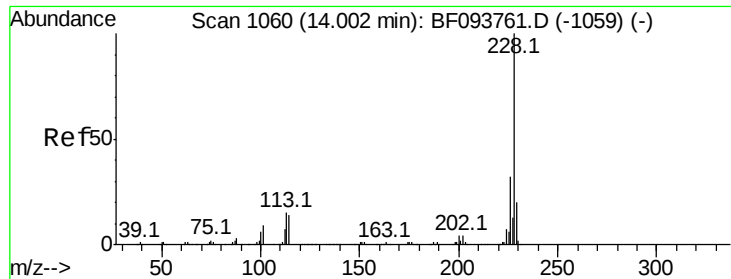
mohammad
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#80
 Benzo(a)anthracene
 Concen: 8.41 ng m
 RT: 13.97 min Scan# 1057
 Delta R.T. -0.01 min
 Lab File: BF093785.D
 Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	42.3	22.6	33.8#
229	20.4	16.3	24.5





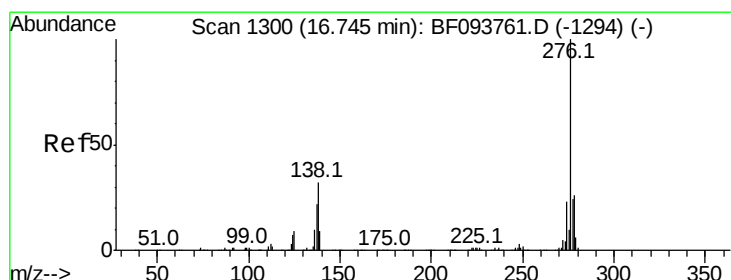
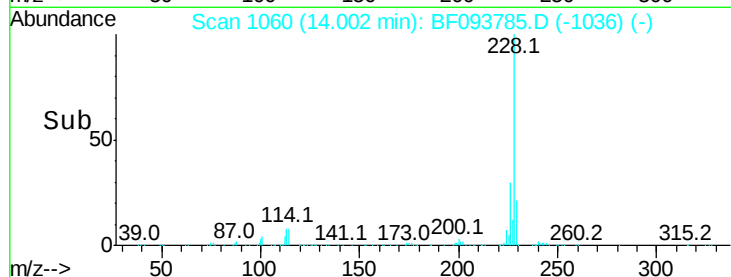
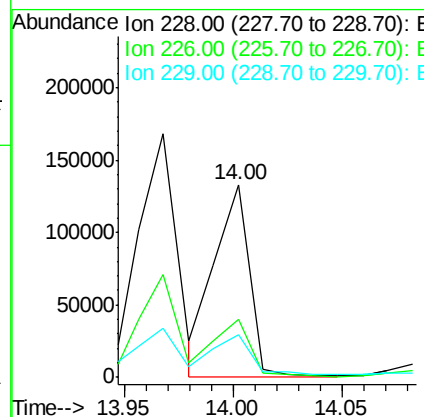
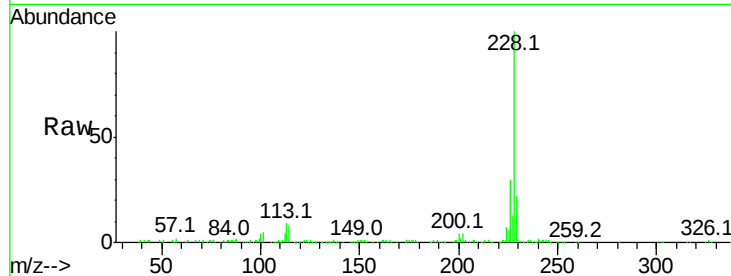
#82
Chrysene
Concen: 6.14 ng/ml
RT: 14.00 min Scan# 1060
Delta R.T. -0.02 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Instrument :
BNA_F
ClientSampleId :
CTMIX-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.9	37.3
229	21.8	15.8	23.6

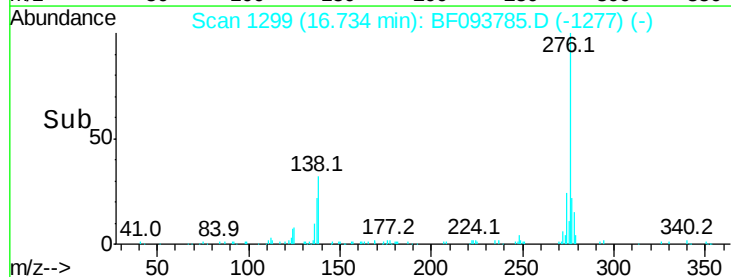
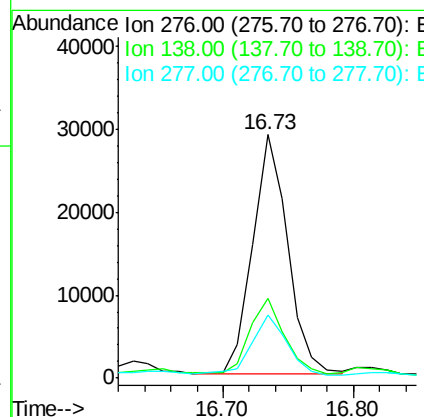
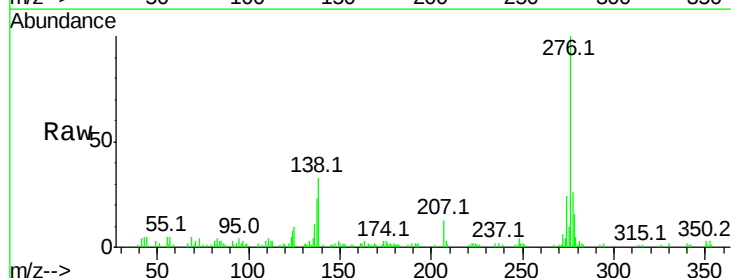
Manual Integrations
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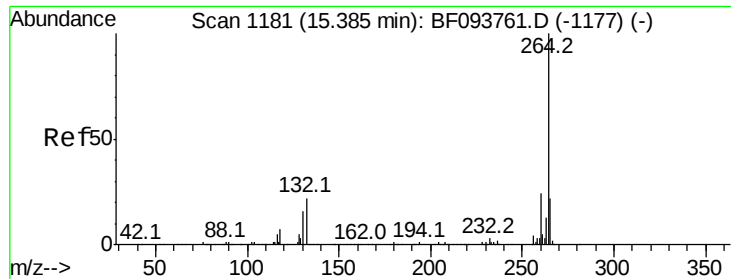
mohammad
3/21/2017 2:45:56 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 2.69 ng
RT: 16.73 min Scan# 1299
Delta R.T. -0.05 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.4	27.8	41.6
277	24.7	20.2	30.4





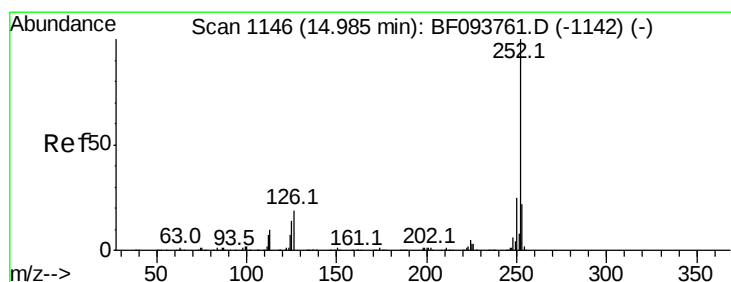
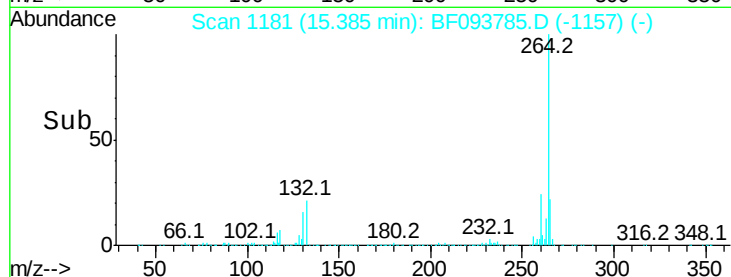
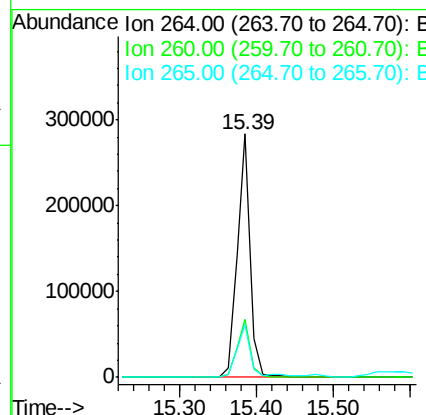
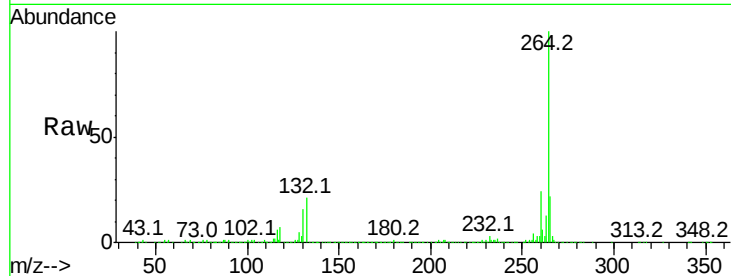
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Instrument :
BNA_F
ClientSampleId :
CTMIX-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	21.9	17.2	25.8

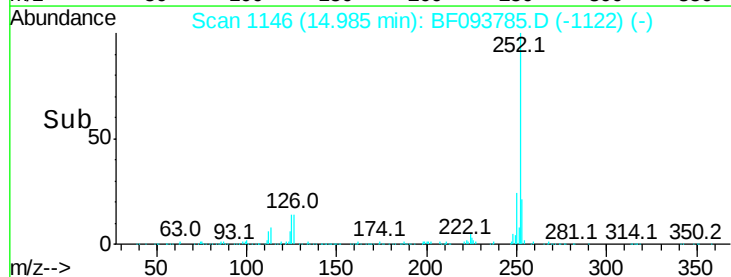
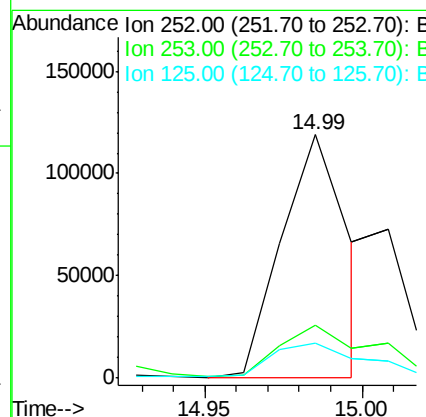
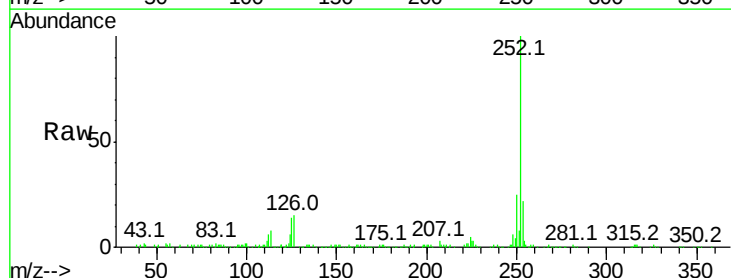
Manual Integrations
APPROVED

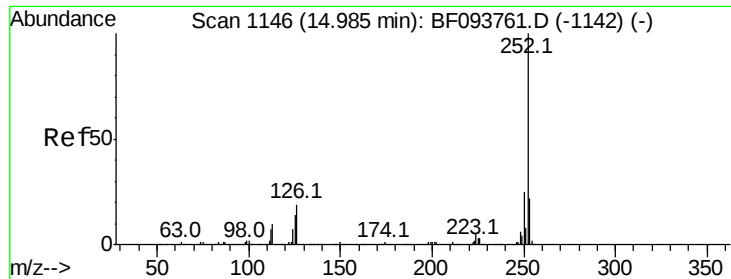
mohammad
3/21/2017 2:45:56 PM



#87
Benzo(b)fluoranthene
Concen: 7.56 ng m
RT: 14.99 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.1	27.1
125	14.2	9.8	14.8





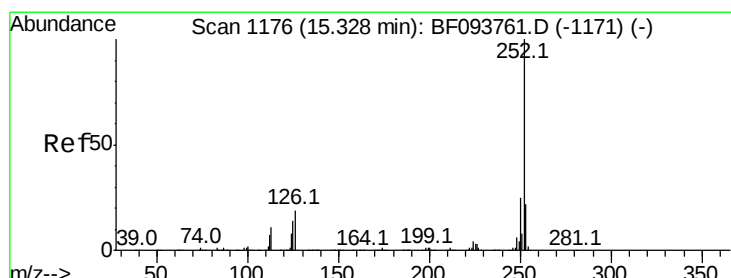
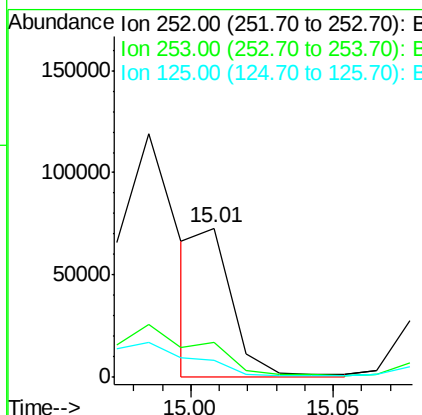
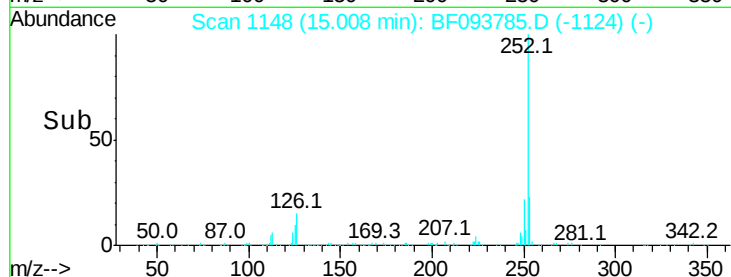
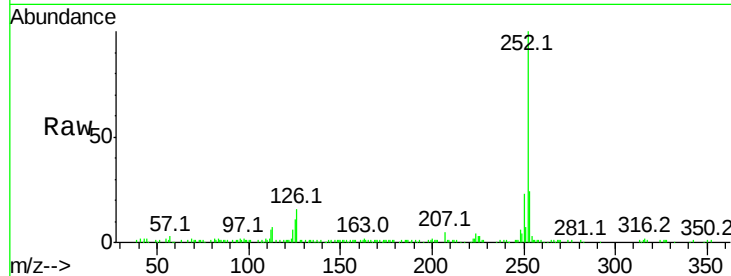
#88
Benzo(k)fluoranthene
Concen: 3.59 ng m
RT: 15.01 min Scan# 1148
Delta R.T. -0.02 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Instrument :
BNA_F
ClientSampleId :
CTMIX-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	11.0	13.1	19.7

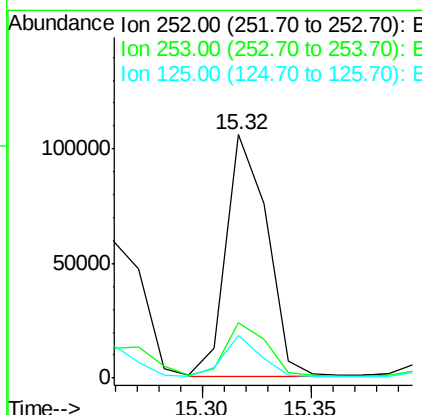
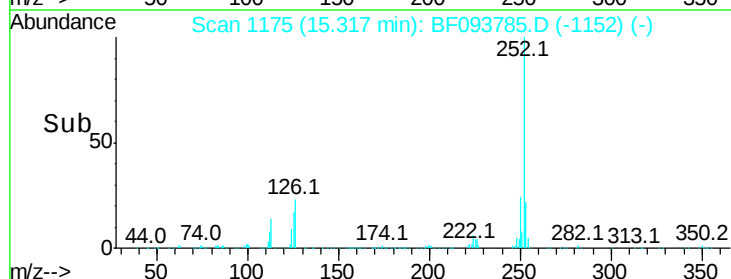
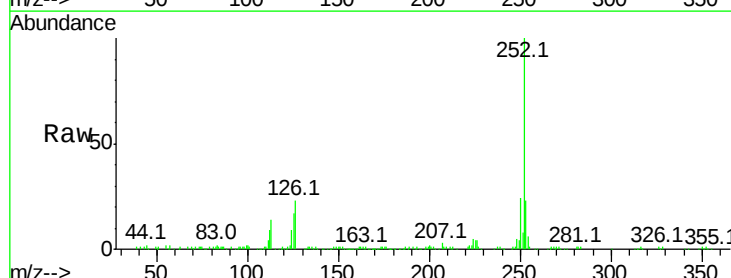
Manual Integrations
APPROVED

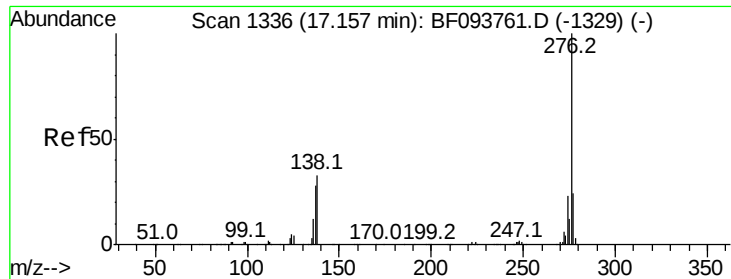
mohammad
3/21/2017 2:45:56 PM



#89
Benzo(a)pyrene
Concen: 7.44 ng
RT: 15.32 min Scan# 1175
Delta R.T. -0.03 min
Lab File: BF093785.D
Acq: 21 Mar 2017 00:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	17.3	11.0	16.4





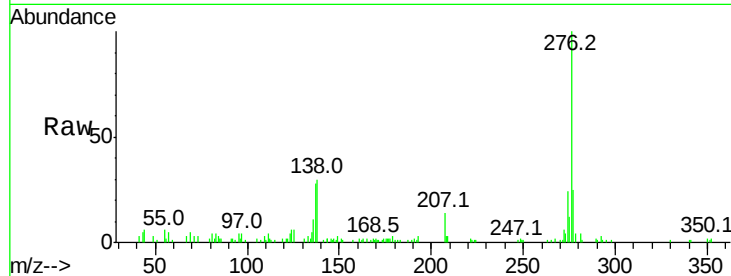
#91
 Benzo(a,h,i)perylene
 Concen: 3.32 ng
 RT: 17.15 min Scan# 1335
 Delta R.T. -0.05 min
 Lab File: BF093785.D
 Acq: 21 Mar 2017 00:55

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-1

Tot Ion:	276	Resp:	51123
Ion Ratio	Lower	Upper	
276	100		
277	25.2	18.6	28.0
138	29.9	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 3/21/2017 2:45:56 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

