

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
 Data File : BF093789.D
 Acq On : 21 Mar 2017 2:44
 Operator : SJ/MA
 Sample : I2280-05 50X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-3

Manual Integrations
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Quant Time: Mar 21 03:53:46 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	225112	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	871170	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	370775	20.00	ng	-0.01
63) Phenanthrene-d10	11.35	188	583201	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	388635	20.00	ng	-0.02
86) Perylene-d12	15.39	264	334078	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	29894	2.32	ng	-0.02
7) Phenol-d6	6.45	99	37570	2.36	ng	-0.03
23) Nitrobenzene-d5	7.38	82	18823	1.23	ng	-0.02
41) 2,4,6-Tribromophenol	10.65	330	3298	1.15	ng	-0.02
44) 2-Fluorobiphenyl	9.19	172	44744	2.03	ng	-0.02
78) Terphenyl-d14	12.93	244	29569	1.55	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.47	94	38822	2.17	ng	81
20) 3+4-Methylphenols	7.24	107	30603	2.08	ng	# 65
31) Naphthalene	8.15	128	3172690	78.46	ng	98
37) 2-Methylnaphthalene	8.84	142	441039	16.71	ng	97
45) 1,1'-Biphenyl	9.29	154	115790	3.84	ng	97
48) Acenaphthylene	9.73	152	514978	13.70	ng	99
51) Acenaphthene	9.90	154	46649m	2.08	ng	
54) Dibenzofuran	10.07	168	378502	12.52	ng	95
57) Fluorene	10.41	166	393476m	17.00	ng	
70) Phenanthrene	11.37	178	1258749	40.53	ng	100
71) Anthracene	11.42	178	534097	16.70	ng	98
72) Carbazole	11.57	167	181031	5.72	ng	98
74) Fluoranthene	12.55	202	847273	26.54	ng	95
77) Pyrene	12.78	202	670245	20.72	ng	99
80) Benzo(a)anthracene	13.97	228	298192m	12.25	ng	
82) Chrysene	14.00	228	267361	10.99	ng	98
85) Indeno(1,2,3-cd)pyrene	16.73	276	79139	3.97	ng	97
87) Benzo(b)fluoranthene	14.99	252	255479m	11.34	ng	
88) Benzo(k)fluoranthene	15.01	252	87947m	5.29	ng	
89) Benzo(a)pyrene	15.32	252	197487	10.81	ng	# 95
91) Benzo(g,h,i)perylene	17.15	276	71944	4.78	ng	98

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

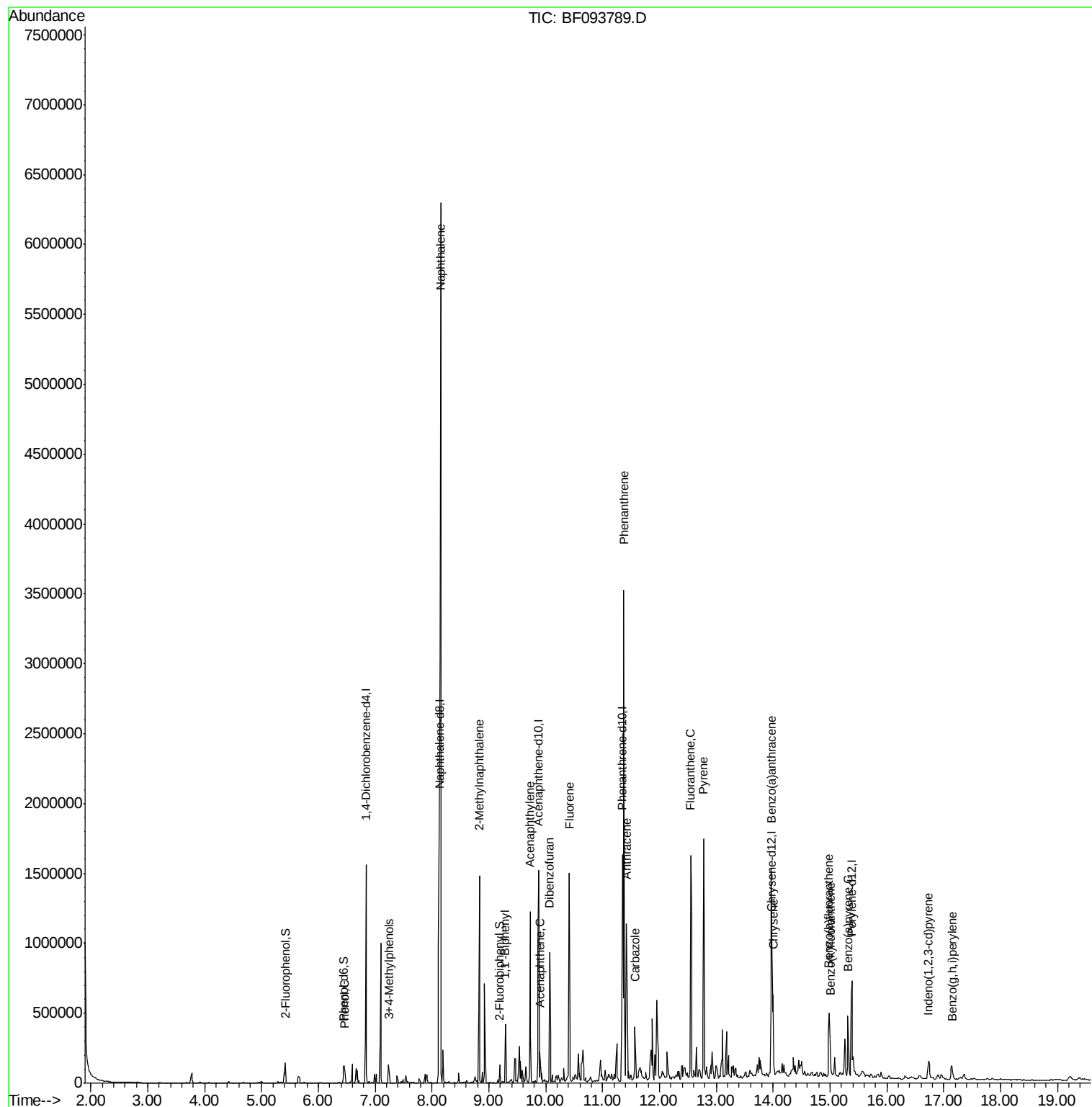
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
Data File : BF093789.D
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ALS Vial : 24 Sample Multiplier: 1

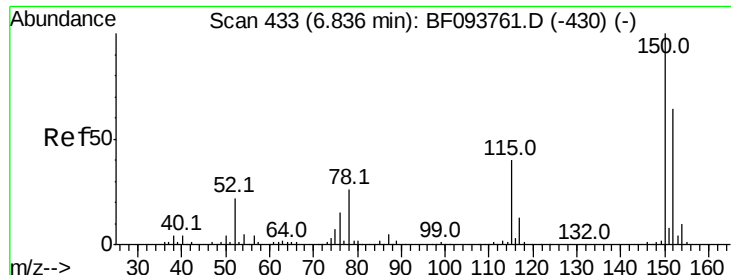
Instrument :
BNA_F
ClientSampleId :
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Quant Time: Mar 21 03:53:46 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 20 16:03:59 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

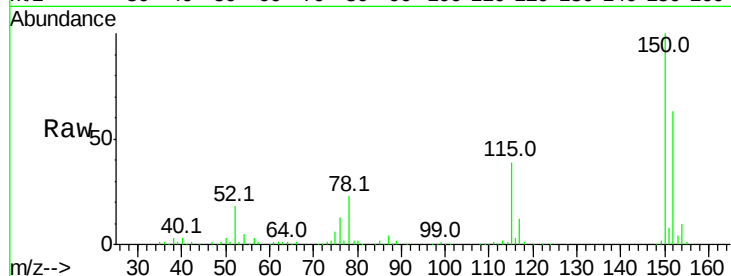
ClientSampled :

CTMIX-3

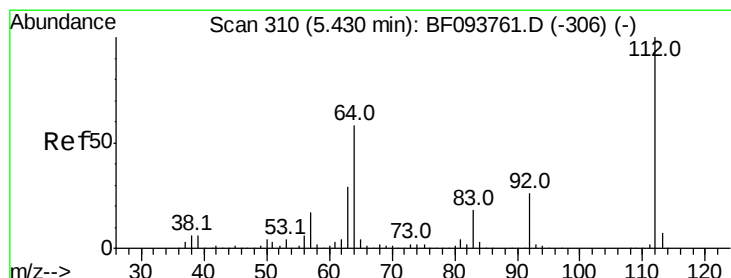
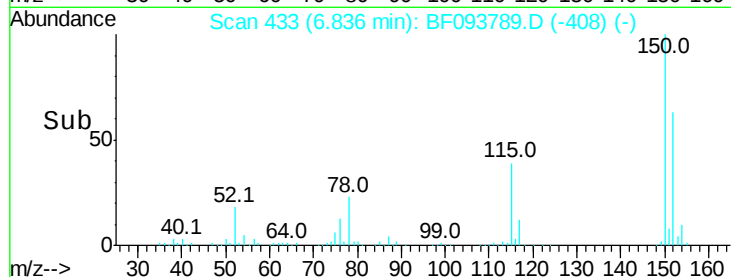
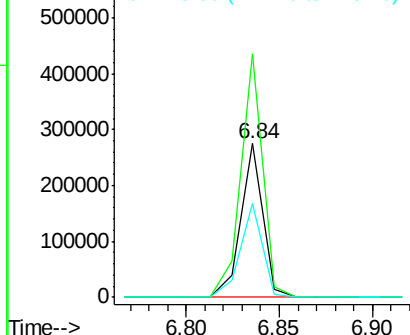
Tot Ion:	152	Resp:	225112
Ion Ratio	Lower	Upper	
152	100		
150	158.5	126.2	189.2
115	61.3	52.2	78.2

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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



#5

2-Fluorophenol

Concen: 2.32 ng

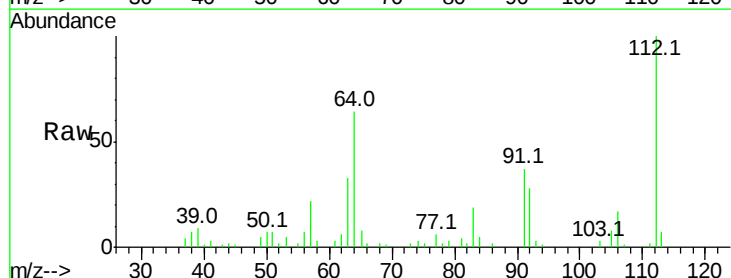
RT: 5.42 min Scan# 309

Delta R.T. -0.02 min

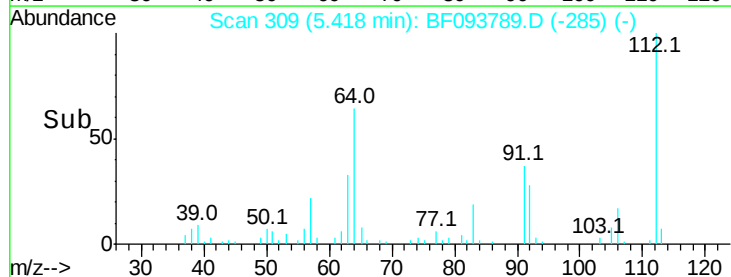
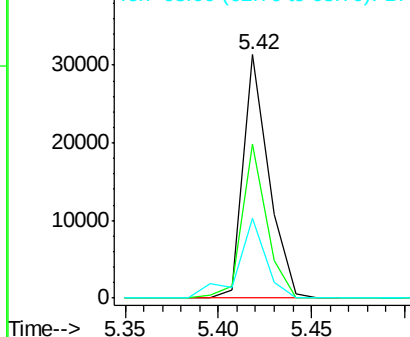
Lab File: BF093789.D

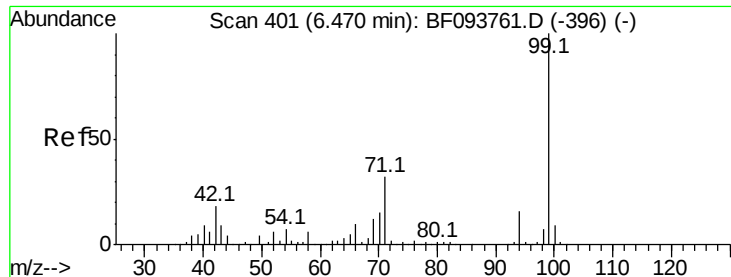
Acq: 21 Mar 2017 2:44

Tgt Ion:	112	Resp:	29894
Ion Ratio	Lower	Upper	
112	100		
64	63.5	46.0	69.0
63	32.7	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: 2.36 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.03 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

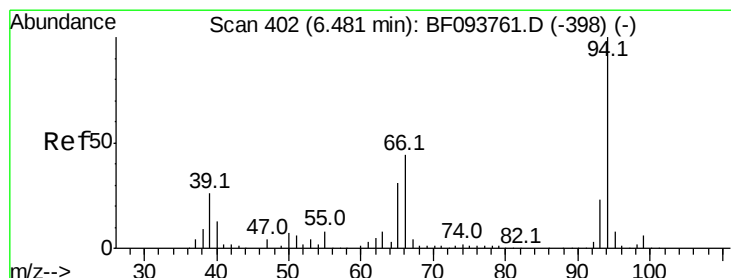
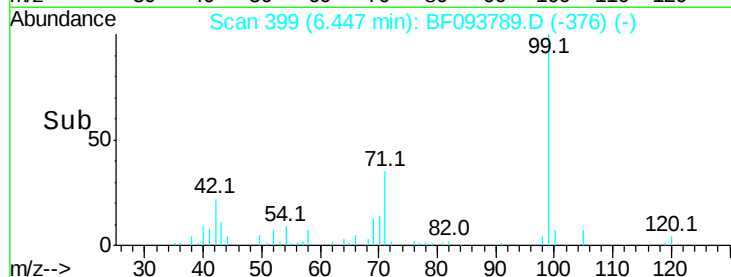
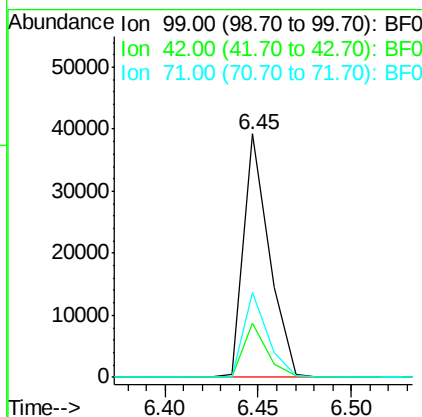
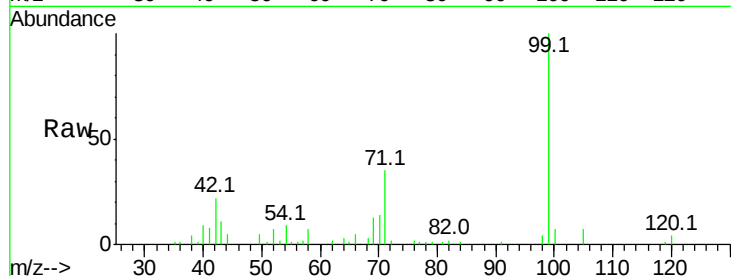
ClientSampled :

CTMIX-3

Tot Ion:	99	Resp:	37570
Ion Ratio	Lower	Upper	
99	100		
42	22.4	13.5	20.3#
71	35.0	24.5	36.7

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#10

Phenol

Concen: 2.17 ng

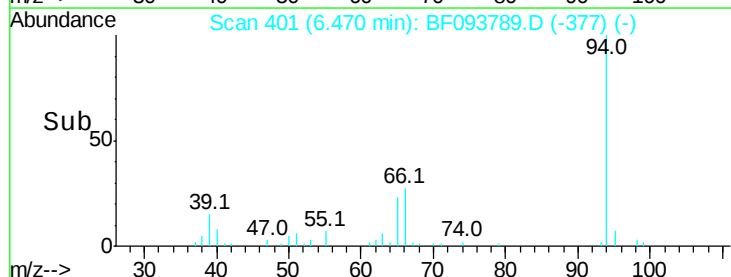
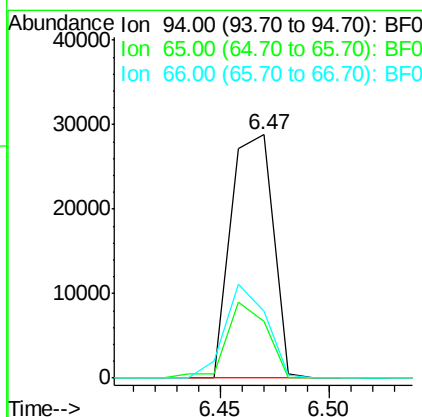
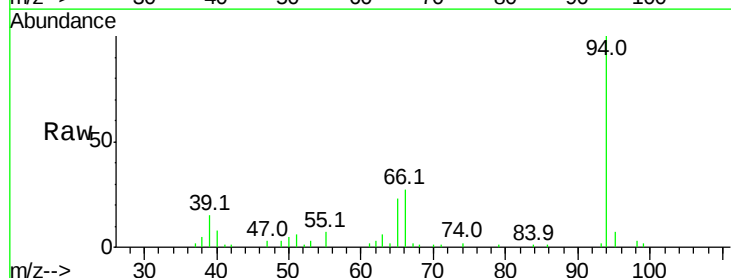
RT: 6.47 min Scan# 401

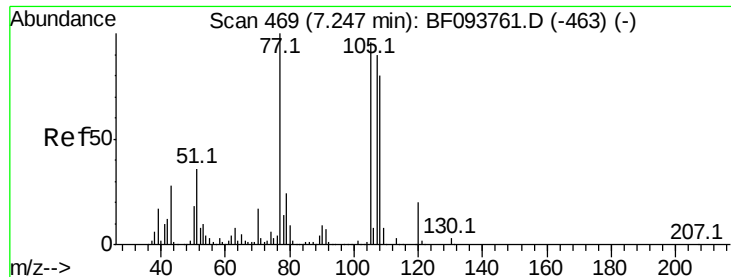
Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Tgt Ion:	94	Resp:	38822
Ion Ratio	Lower	Upper	
94	100		
65	23.3	9.9	49.9
66	27.4	23.1	63.1





#20

3+4-Methylphenols

Concen: 2.08 ng

RT: 7.24 min Scan# 468

Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

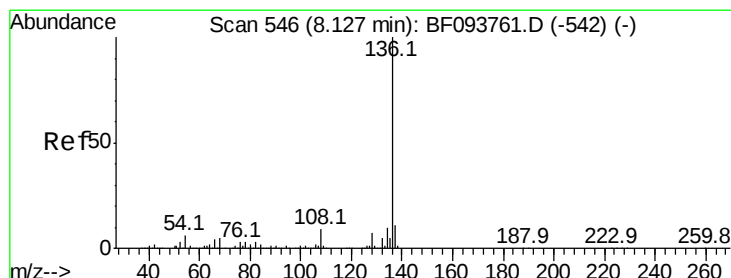
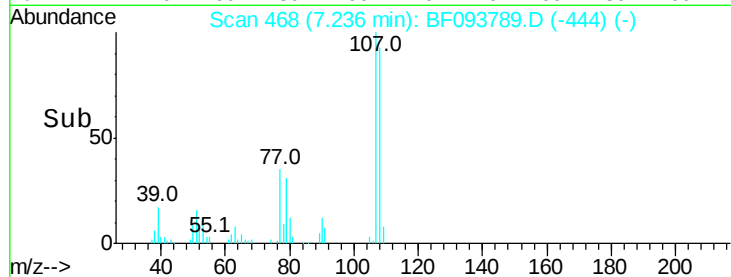
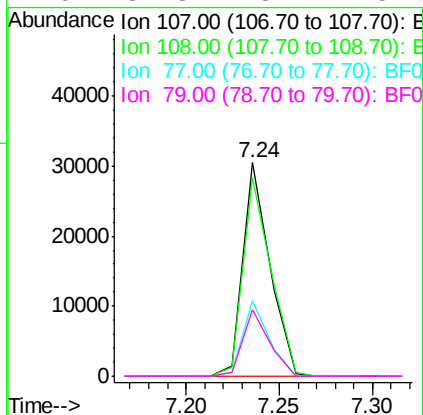
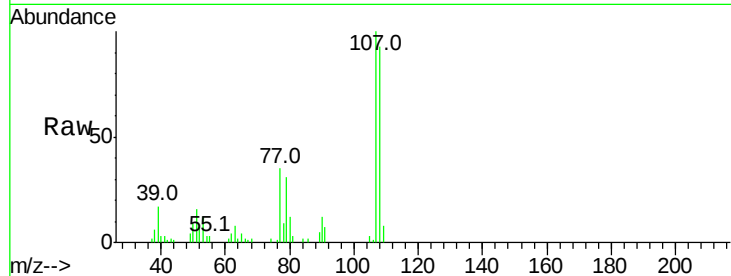
ClientSampleId :

CTMIX-3

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	92.7	71.0	111.0	
77	35.4	90.5	130.5	
79	31.3	8.4	48.4	

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#21

Naphthalene-d8

Concen: 20.00 ng

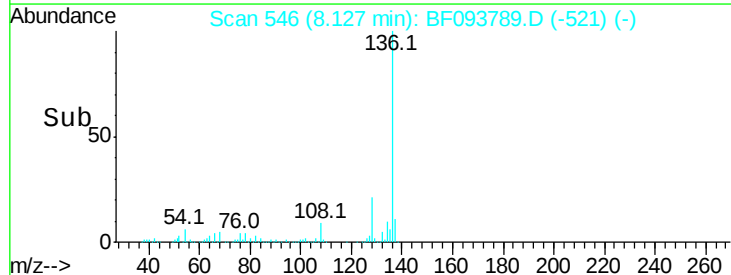
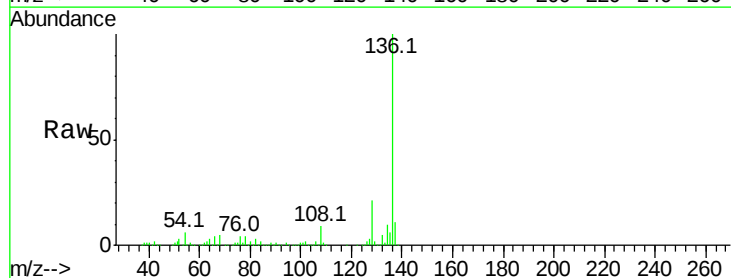
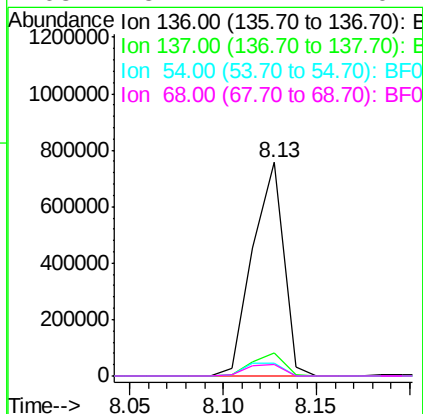
RT: 8.13 min Scan# 546

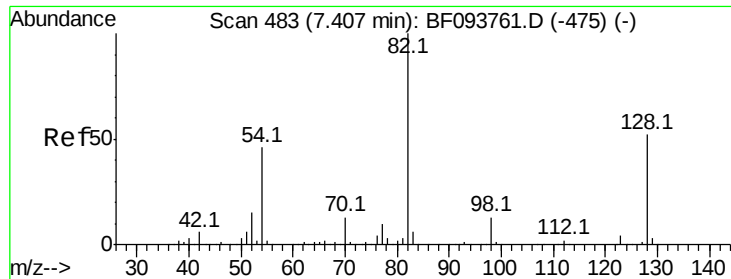
Delta R.T. -0.01 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	8.5	12.7	
54	6.3	4.9	7.3	
68	5.1	4.1	6.1	





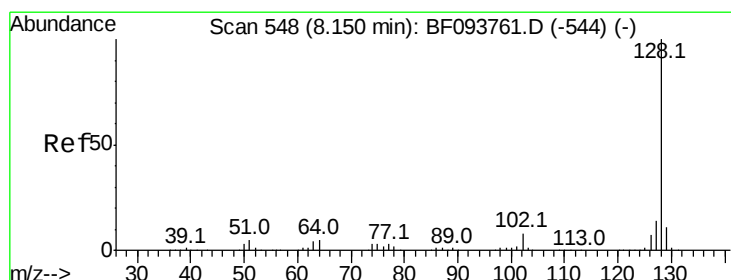
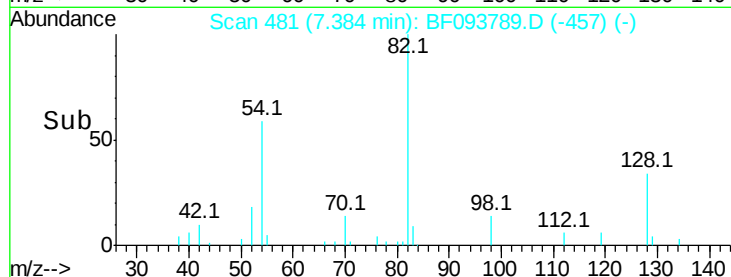
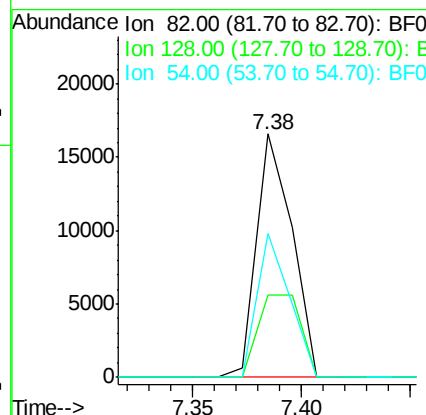
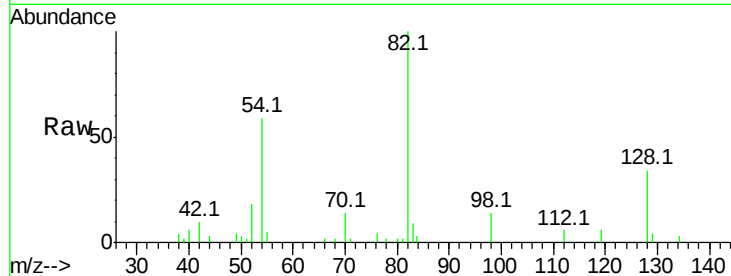
#23
 Nitrobenzene-d5
 Concen: 1.23 ng
 RT: 7.38 min Scan# 481
 Delta R.T. -0.02 min
 Lab File: BF093789.D
 Acq: 21 Mar 2017 2:44

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.8	34.0	51.0#
54	58.8	42.2	63.2

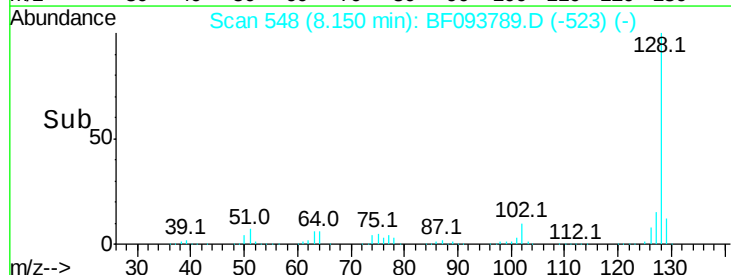
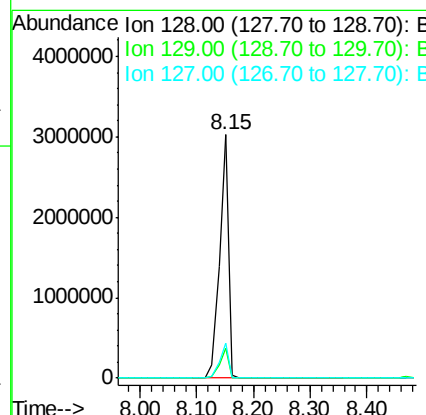
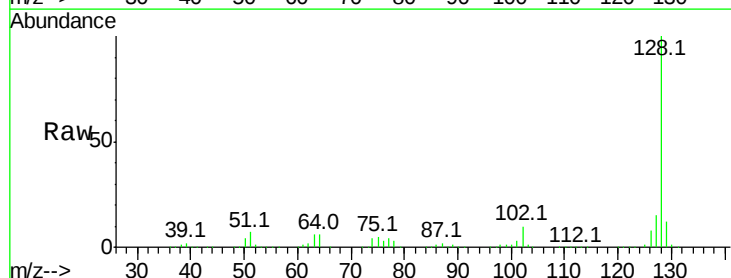
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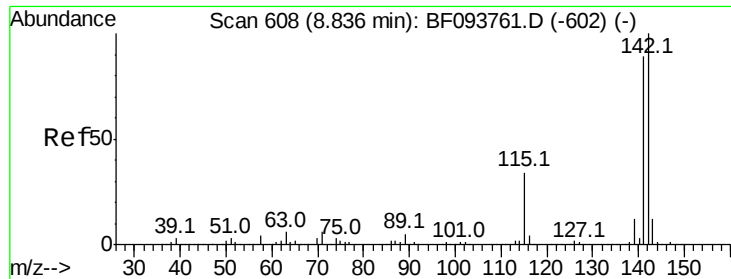
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#31
 Naphthalene
 Concen: 78.46 ng
 RT: 8.15 min Scan# 548
 Delta R.T. -0.01 min
 Lab File: BF093789.D
 Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.0	13.6
127	14.6	10.8	16.2





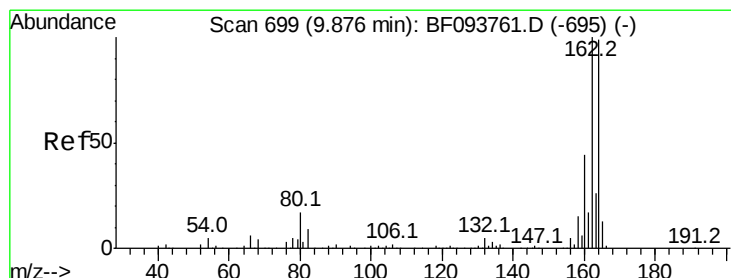
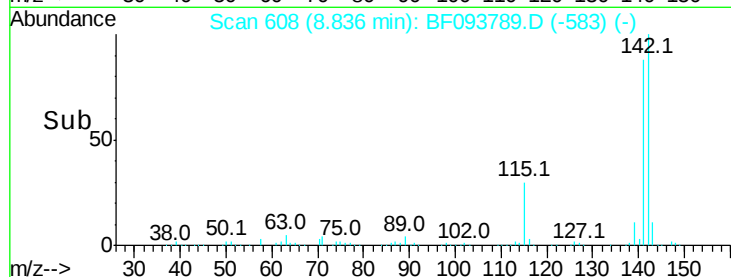
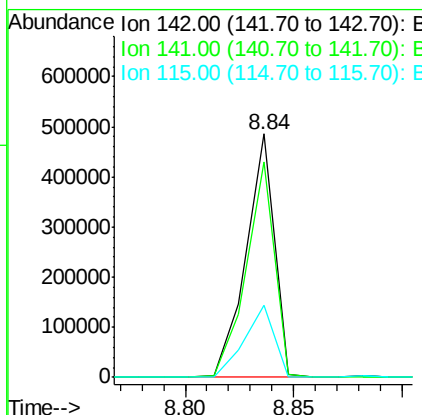
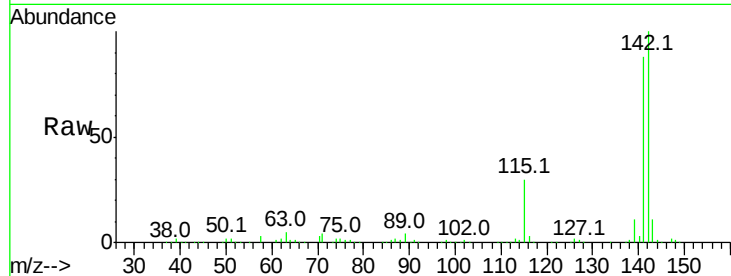
#37
2-Methylnaphthalene
Concen: 16.71 ng
RT: 8.84 min Scan# 608
Delta R.T. -0.01 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.3	106.9
115	29.6	27.1	40.7

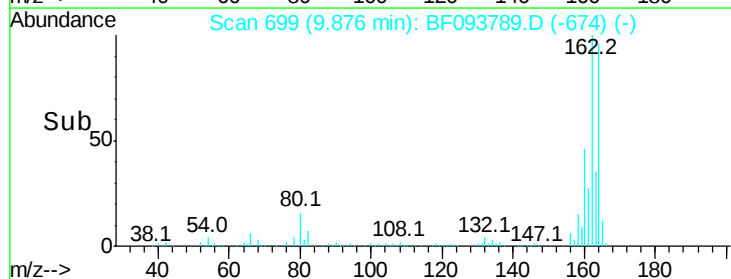
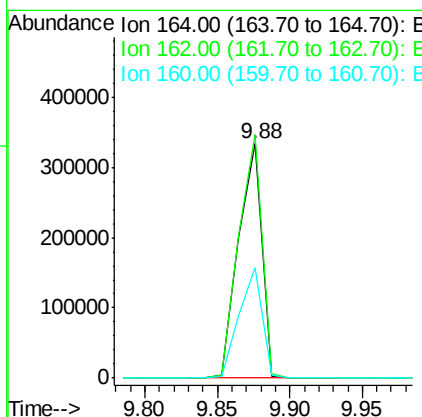
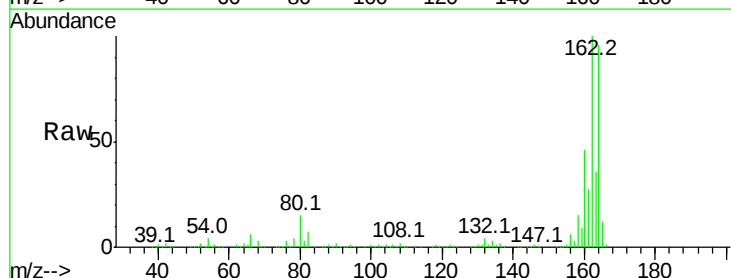
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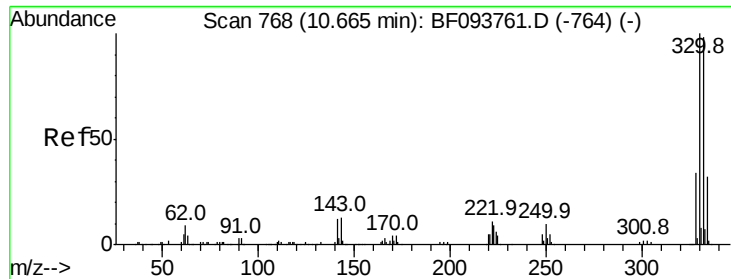
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	82.6	123.8
160	47.3	36.2	54.2





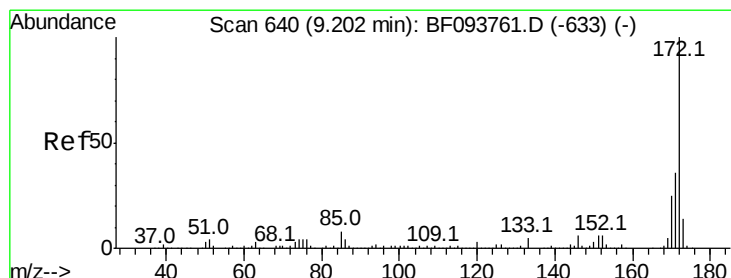
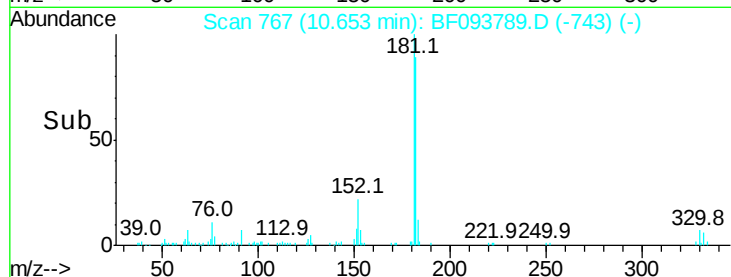
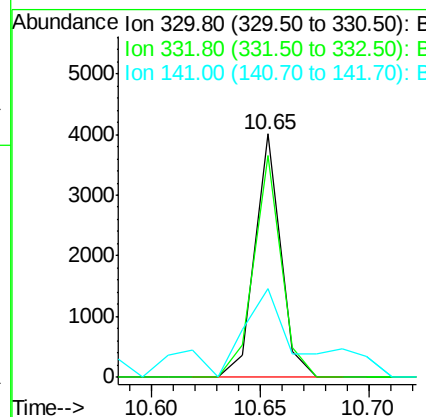
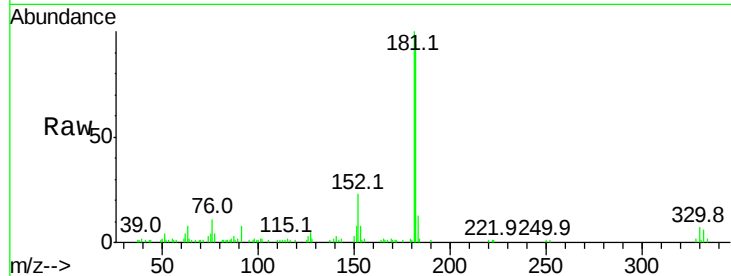
#41
 2,4,6-Tribromophenol
 Concen: 1.15 ng
 RT: 10.65 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF093789.D
 Acq: 21 Mar 2017 2:44

Instrument :
 BNA_F
 ClientSampled :
 CTMIX-3

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.3	76.6	115.0	
141	103.7	31.4	47.2	

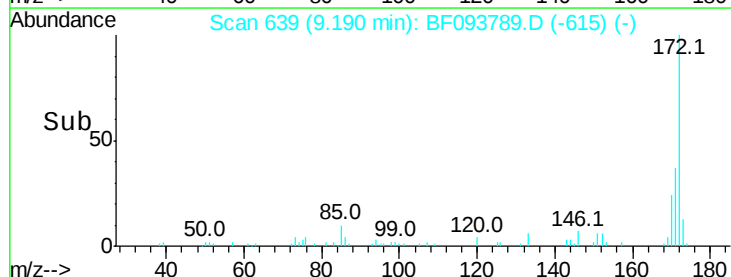
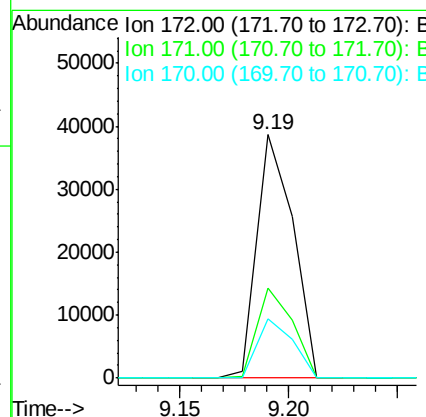
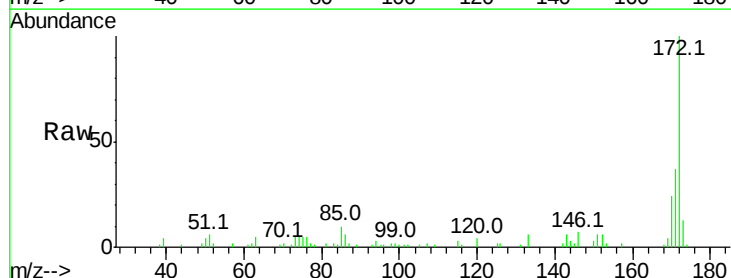
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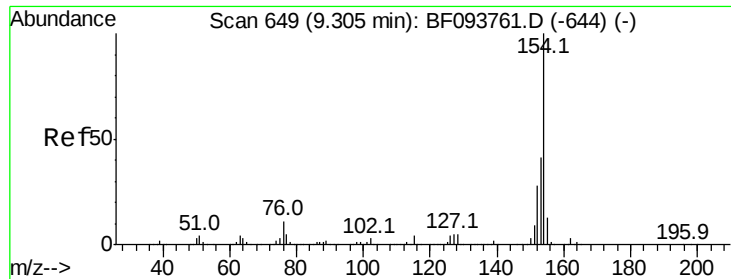
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#44
 2-Fluorobiphenyl
 Concen: 2.03 ng
 RT: 9.19 min Scan# 639
 Delta R.T. -0.02 min
 Lab File: BF093789.D
 Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	37.1	29.6	44.4	
170	24.3	19.8	29.8	





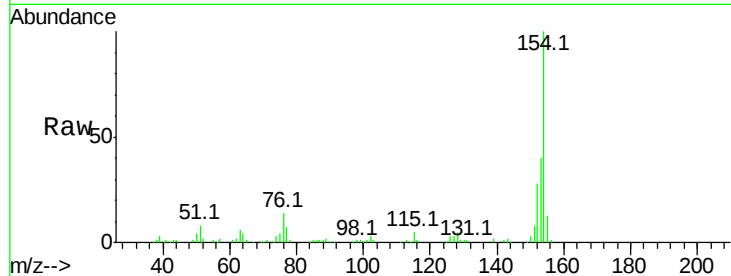
#45
1,1'-Biphenyl
Concen: 3.84 ng
RT: 9.29 min Scan# 648
Delta R.T. -0.02 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Instrument :
BNA_F
ClientSampleId :
CTMIX-3

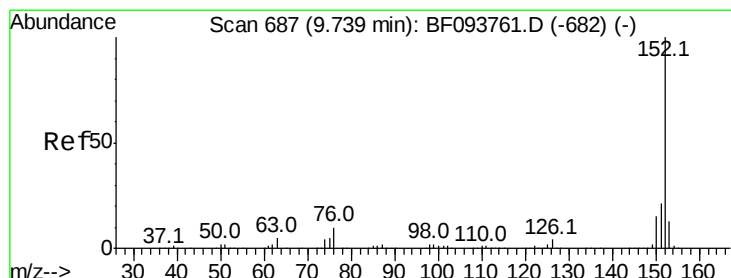
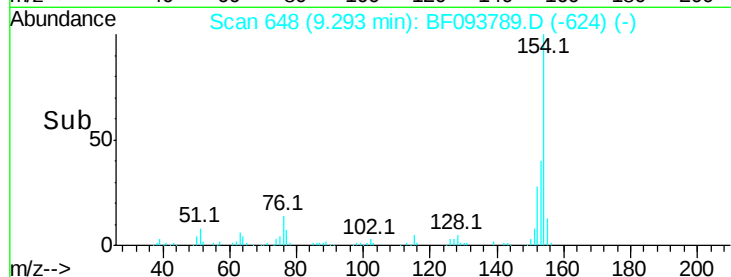
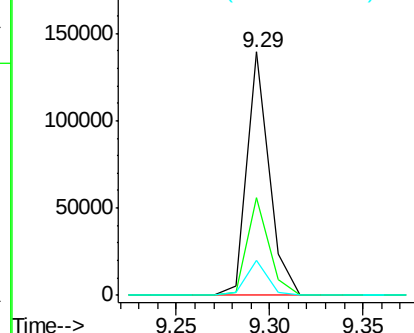
Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.3	21.2	61.2	
76	14.1	0.0	29.9	

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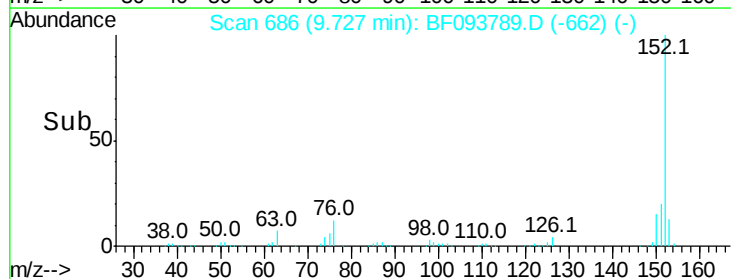
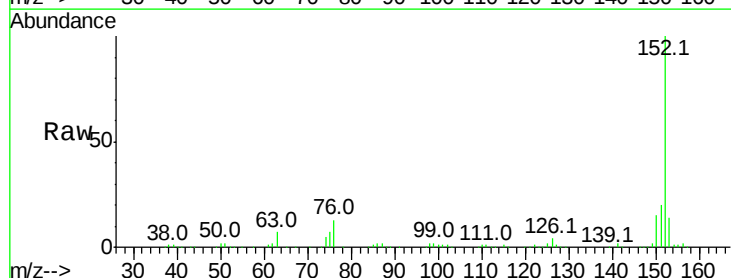
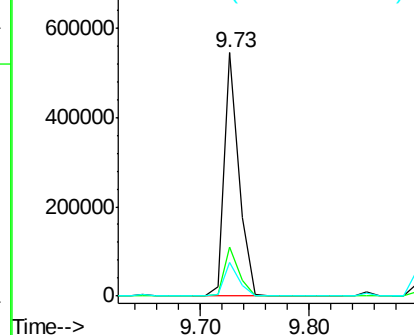
Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

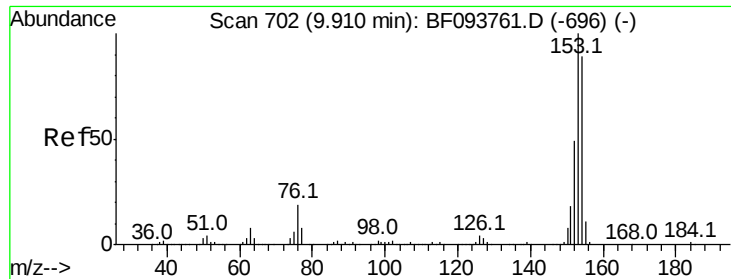


#48
Acenaphthylene
Concen: 13.70 ng
RT: 9.73 min Scan# 686
Delta R.T. -0.02 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	20.4	16.8	25.2	
153	13.7	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: 2.08 ng/mL

RT: 9.90 min Scan# 701

Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

ClientSampleId :

CTMIX-3

Tot Ion:154 Resp: 46649

Ion Ratio Lower Upper

154 100

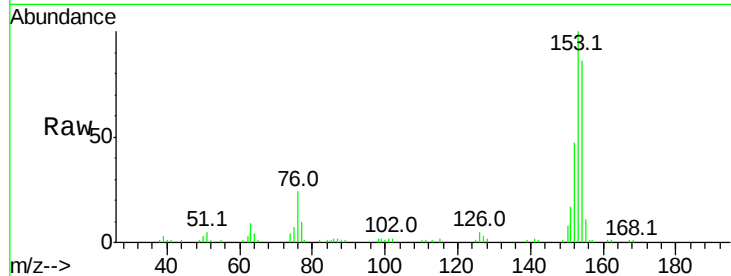
153 116.1 90.5 135.7

152 54.7 43.6 65.4

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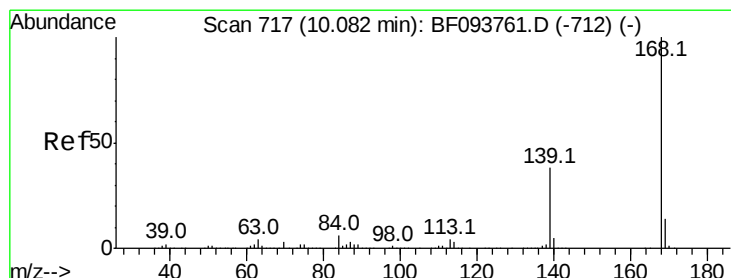
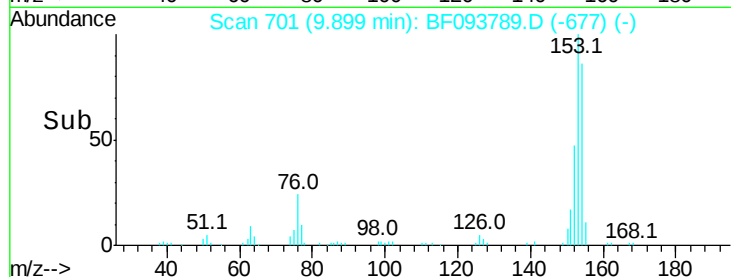
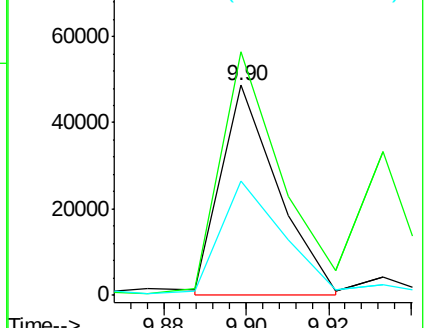
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 12.52 ng/mL

RT: 10.07 min Scan# 716

Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

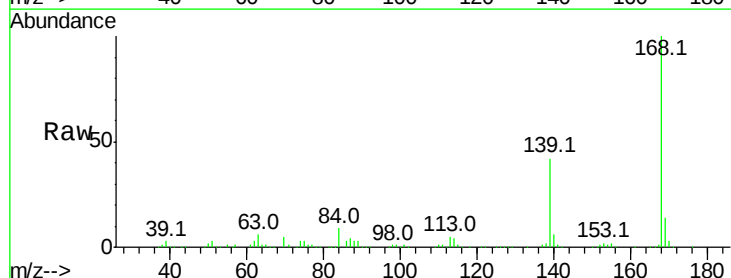
Tgt Ion:168 Resp: 378502

Ion Ratio Lower Upper

168 100

139 41.8 30.6 45.8

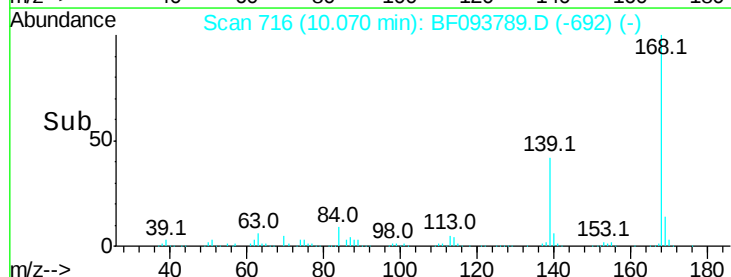
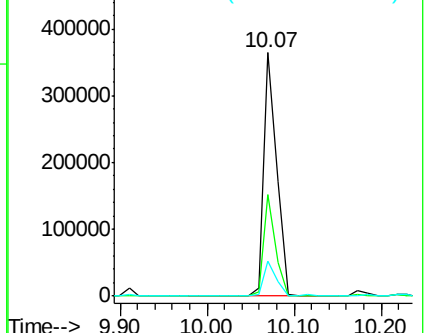
169 14.2 10.8 16.2

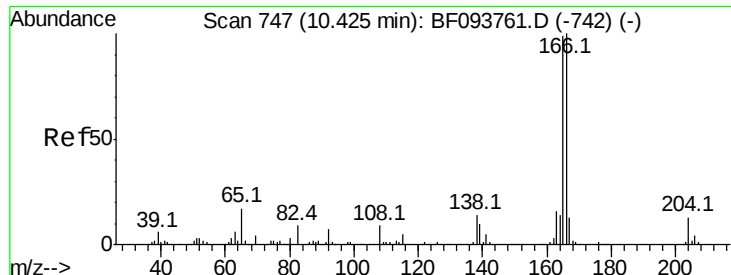


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





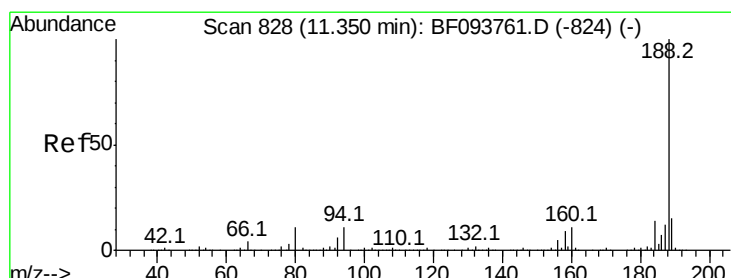
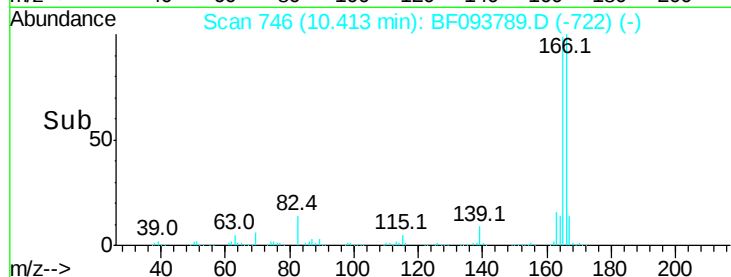
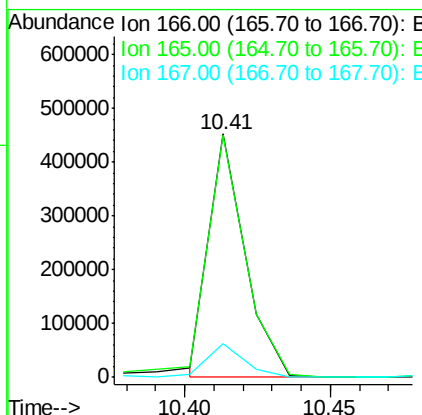
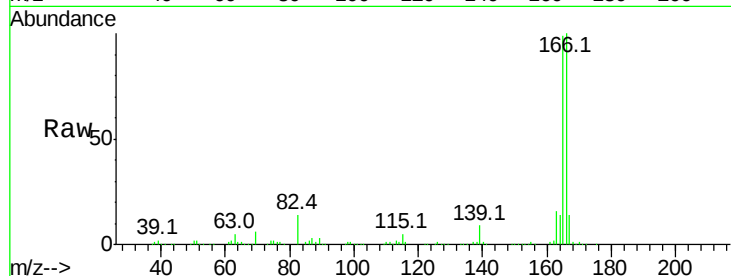
#57
Fluorene
 Concen: 17.00 ng/ml
 RT: 10.41 min Scan# 746
 Delta R.T. -0.02 min
 Lab File: BF093789.D
 Acq: 21 Mar 2017 2:44

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-3

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.3	78.8	118.2
167	13.7	10.6	16.0

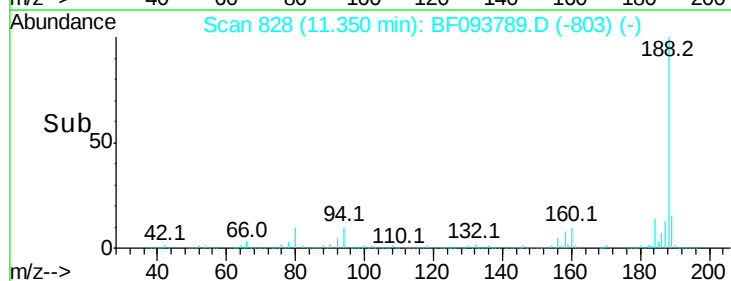
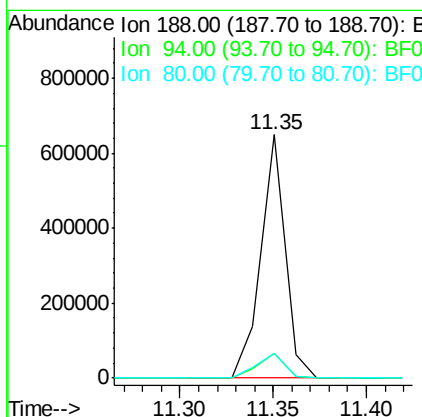
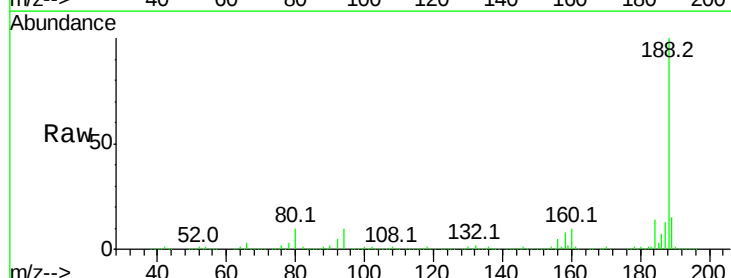
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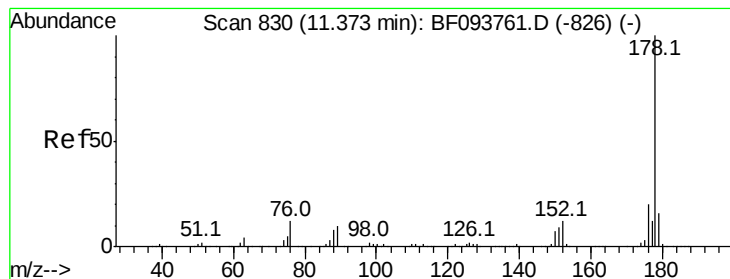
mohammad
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.35 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF093789.D
 Acq: 21 Mar 2017 2:44

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





#70

Phenanthrene

Concen: 40.53 ng

RT: 11.37 min Scan# 830

Delta R.T. -0.01 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

ClientSampled :

CTMIX-3

Tot Ion:178 Resp: 1258749

Ion Ratio Lower Upper

178 100

176 20.1 16.2 24.4

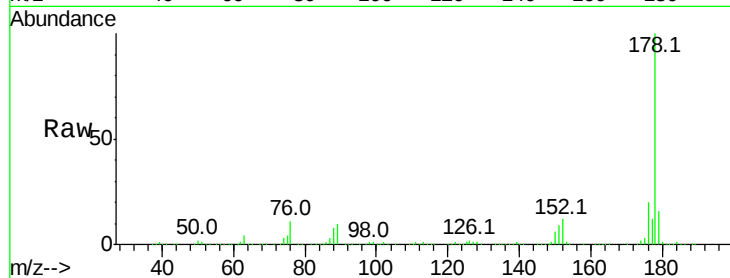
179 15.9 12.6 19.0

Manual Integrations

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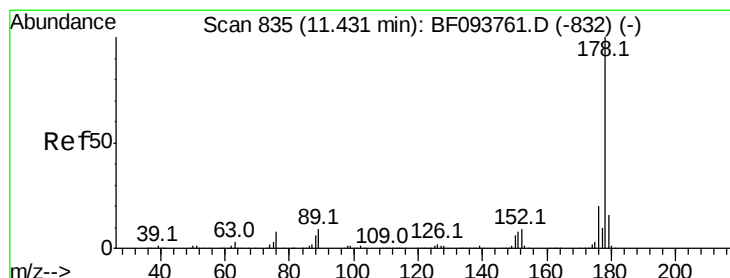
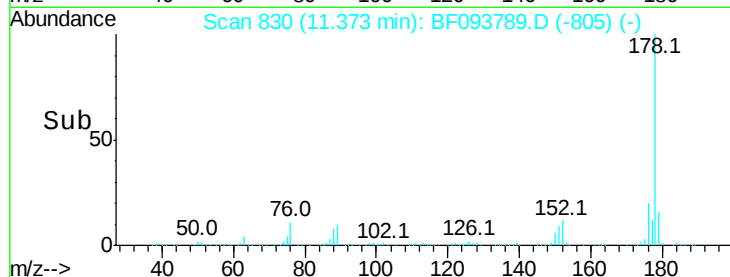
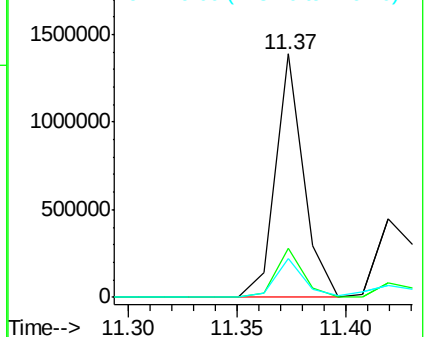
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 16.70 ng

RT: 11.42 min Scan# 834

Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

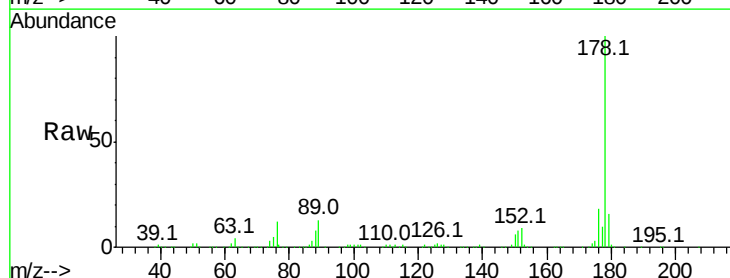
Tgt Ion:178 Resp: 534097

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

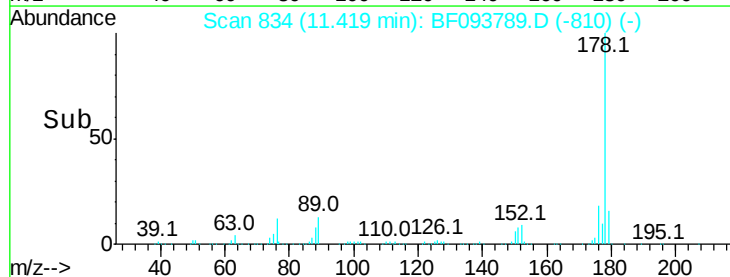
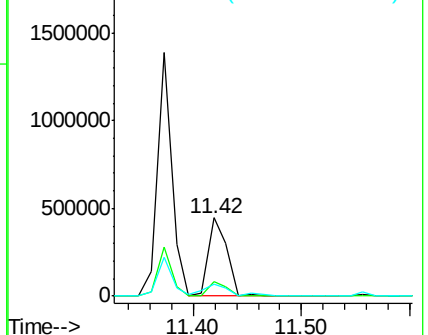
179 15.8 12.7 19.1

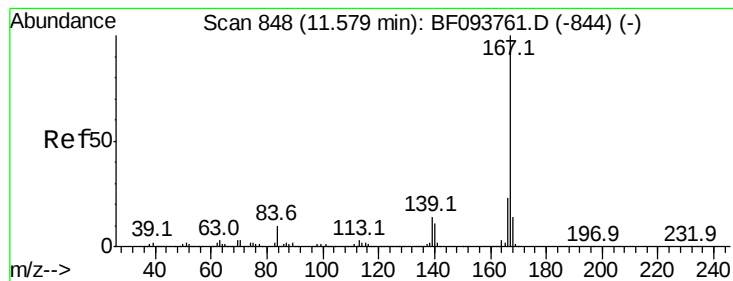


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.72 ng

RT: 11.57 min Scan# 847

Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

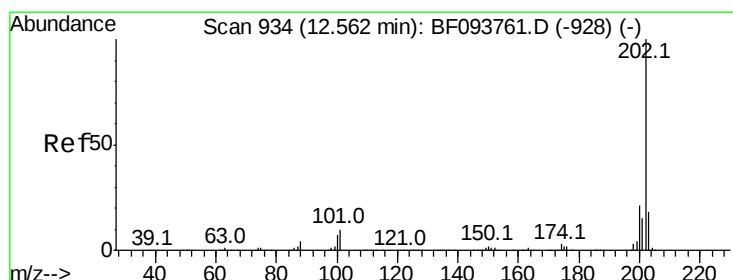
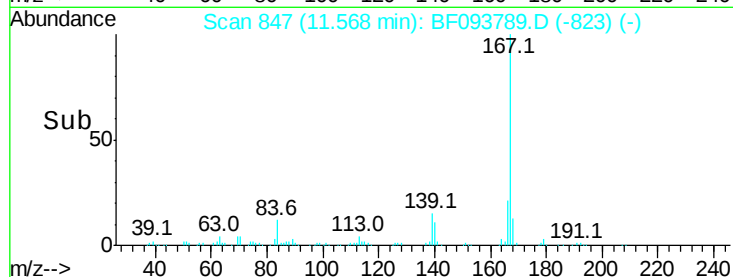
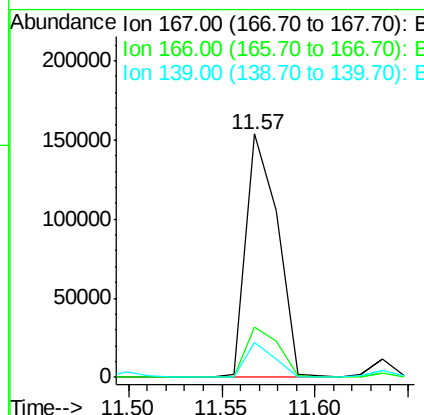
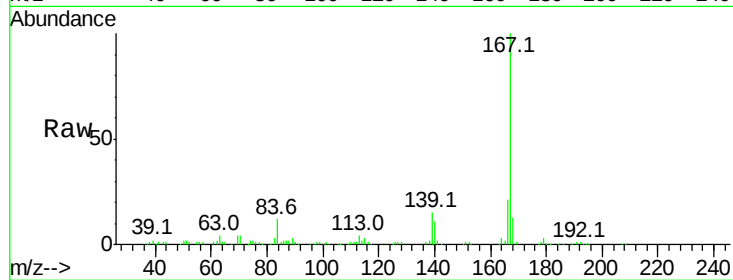
ClientSampleId :

CTMIX-3

Tot Ion:	167	Resp:	181031
Ion Ratio	Lower	Upper	
167	100		
166	20.9	18.1	27.1
139	14.5	11.7	17.5

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#74

Fluoranthene

Concen: 26.54 ng

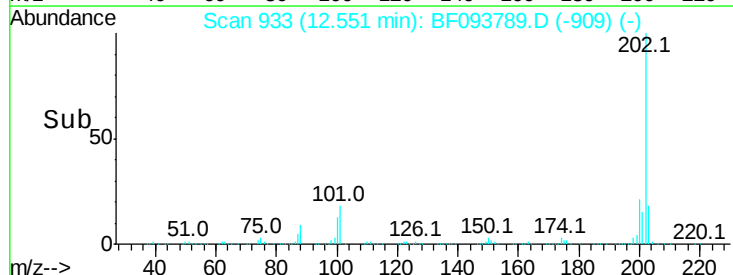
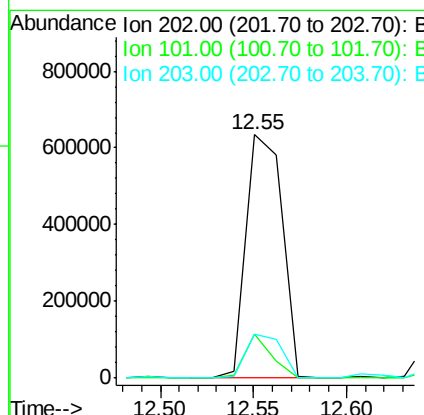
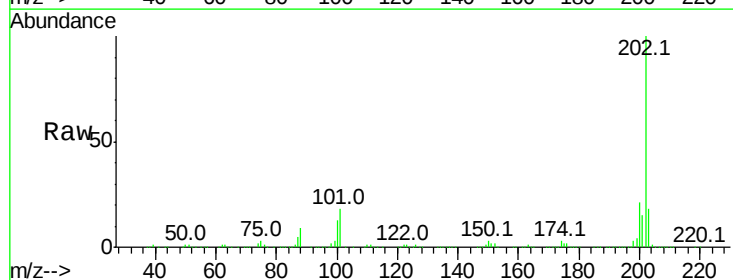
RT: 12.55 min Scan# 933

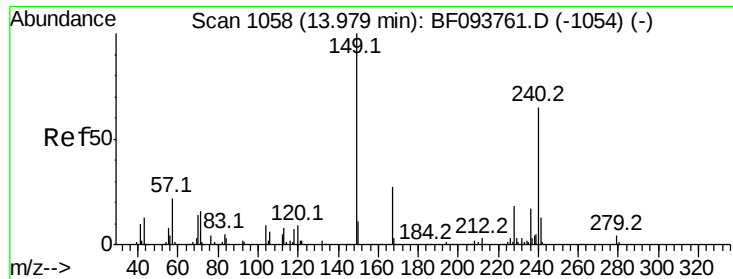
Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Tgt Ion:	202	Resp:	847273
Ion Ratio	Lower	Upper	
202	100		
101	18.0	0.0	33.2
203	17.9	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: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

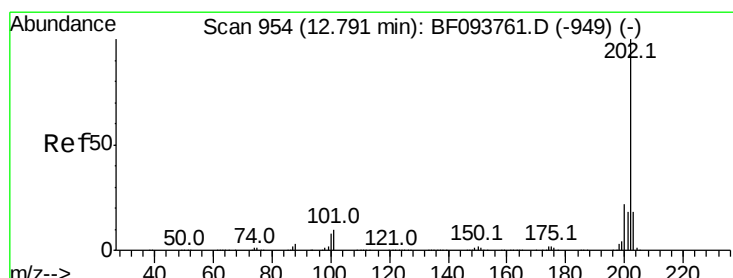
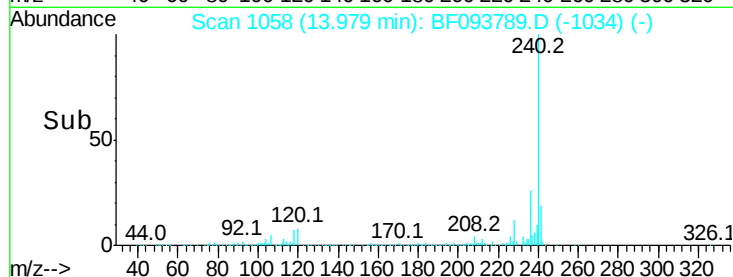
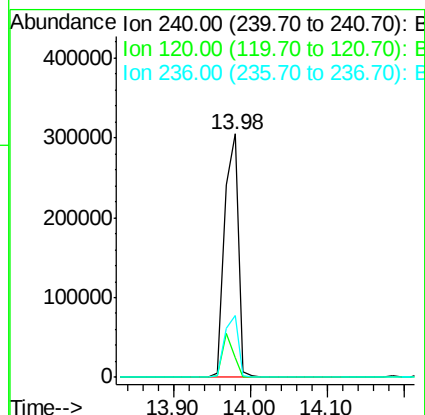
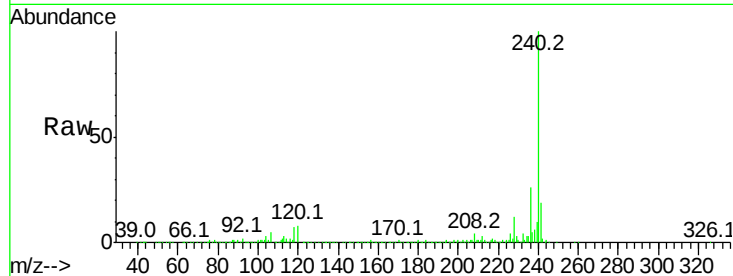
ClientSampled :

CTMIX-3

Tot Ion:	240	Resp:	388635
Ion Ratio	Lower	Upper	
240	100		
120	7.9	5.8	8.8
236	25.6	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 20.72 ng

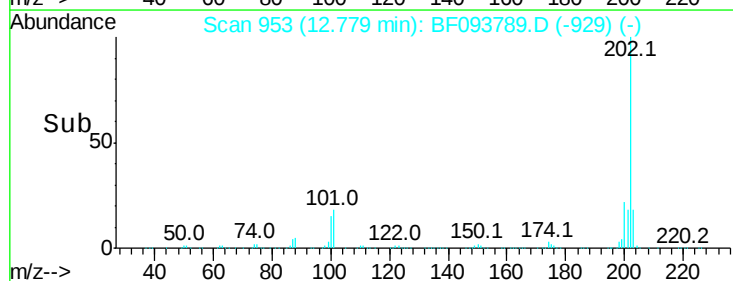
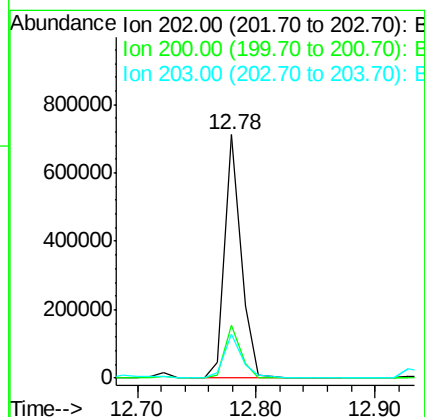
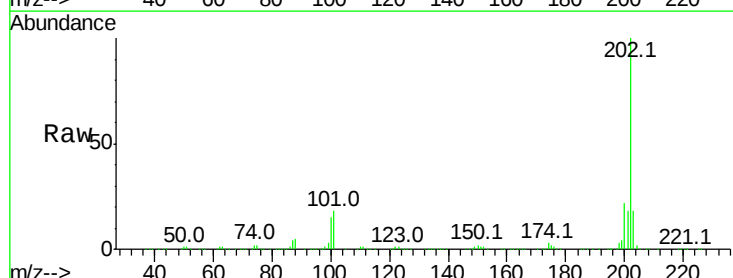
RT: 12.78 min Scan# 953

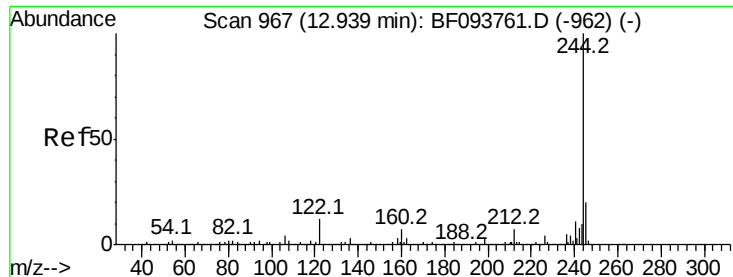
Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Tgt Ion:	202	Resp:	670245
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.6	26.4
203	18.0	14.4	21.6





#78

Terphenyl-d14

Concen: 1.55 ng

RT: 12.93 min Scan# 966

Delta R.T. -0.02 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Instrument :

BNA_F

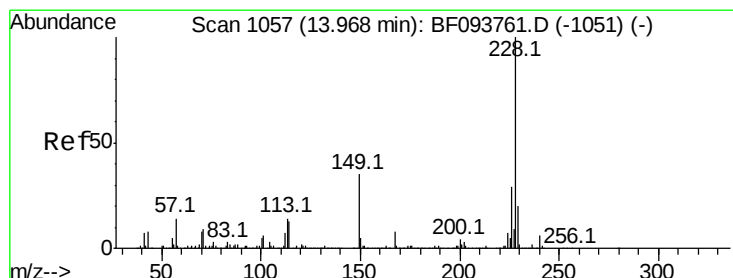
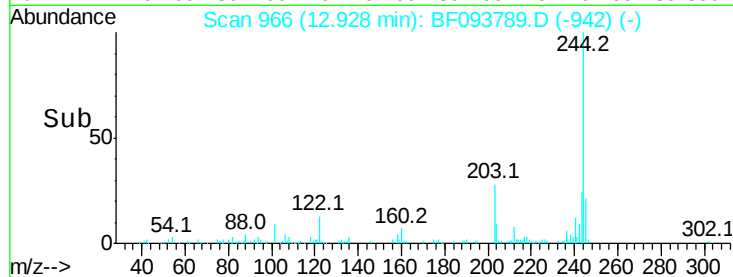
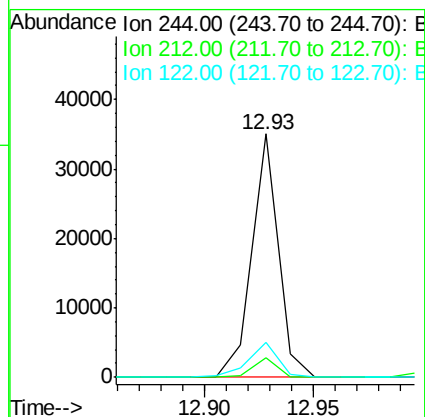
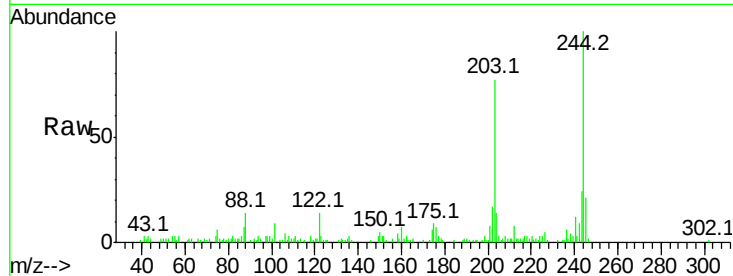
ClientSampleId :

CTMIX-3

Tot Ion:	244	Resp:	29569
Ion Ratio	Lower	Upper	
244	100		
212	7.9	6.0	9.0
122	14.3	10.3	15.5

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#80

Benzo(a)anthracene

Concen: 12.25 ng m

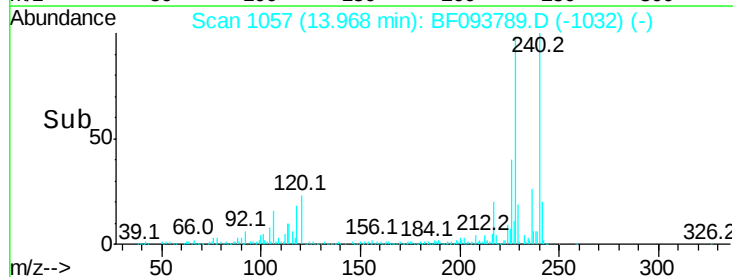
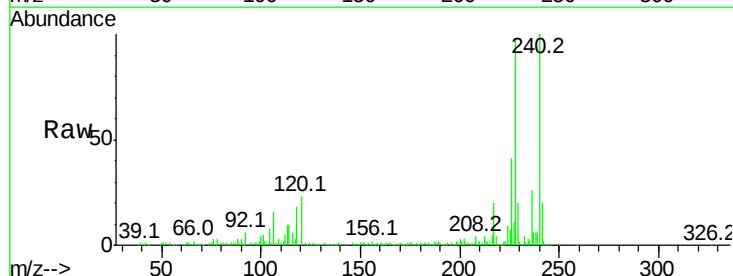
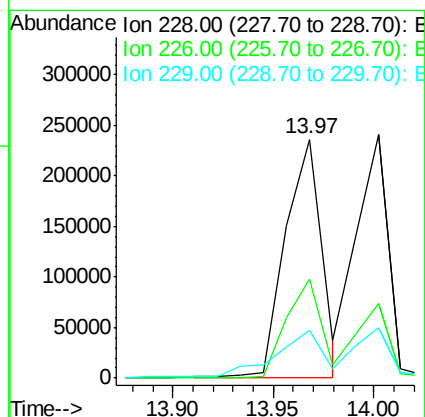
RT: 13.97 min Scan# 1057

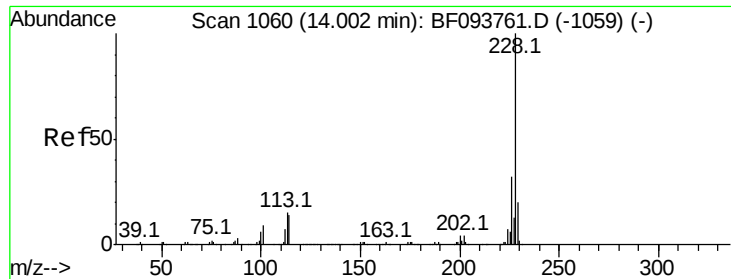
Delta R.T. -0.01 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Tgt Ion:	228	Resp:	298192
Ion Ratio	Lower	Upper	
228	100		
226	41.6	22.6	33.8#
229	20.2	16.3	24.5





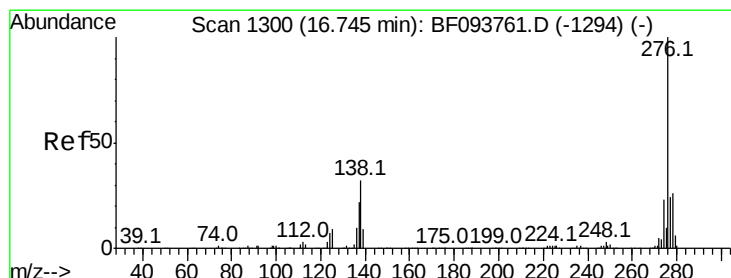
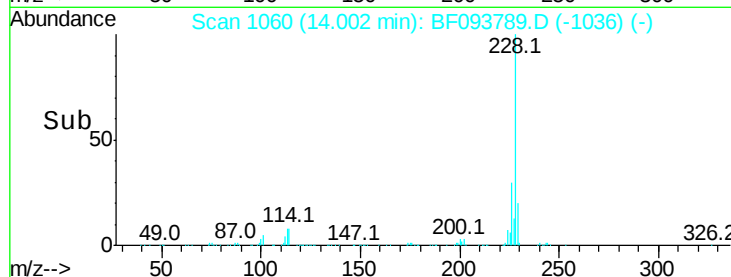
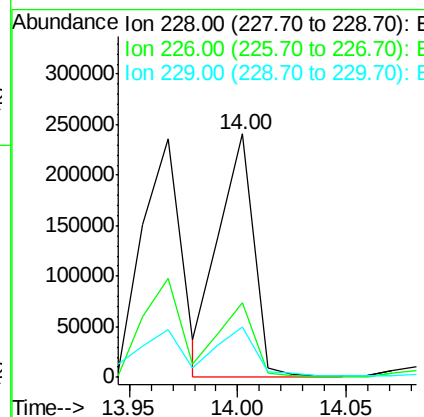
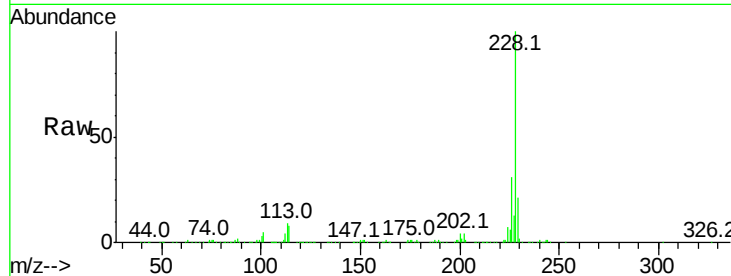
#82
Chrysene
Concen: 10.99 ng
RT: 14.00 min Scan# 1060
Delta R.T. -0.02 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Instrument :
BNA_F
ClientSampleId :
CTMIX-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.9	37.3
229	20.8	15.8	23.6

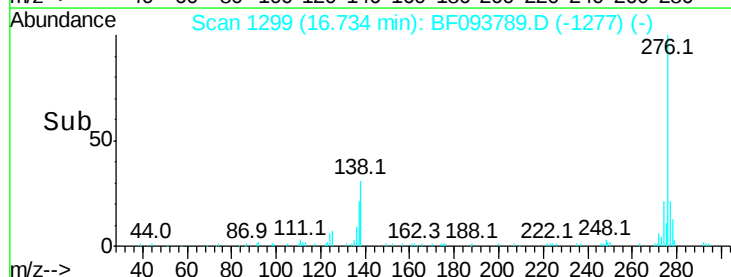
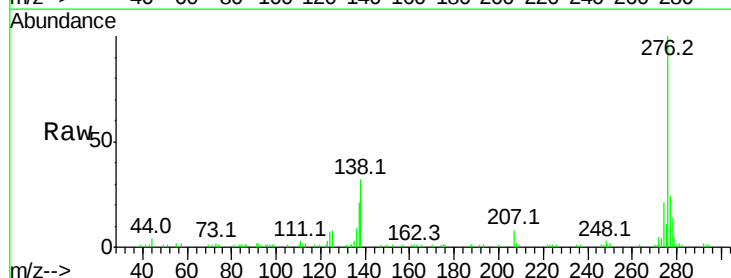
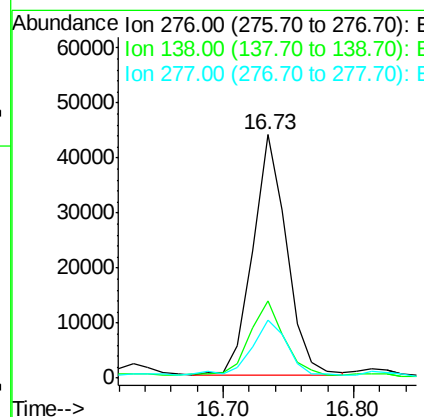
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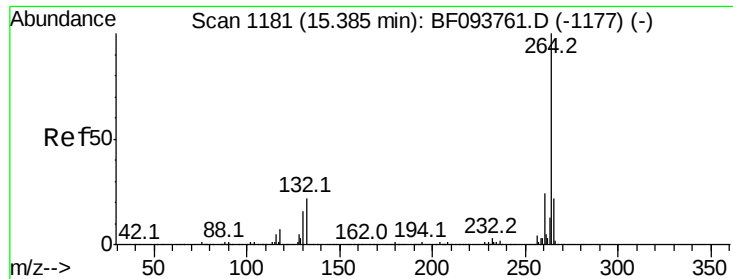
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 3.97 ng
RT: 16.73 min Scan# 1299
Delta R.T. -0.05 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.9	27.8	41.6
277	27.0	20.2	30.4





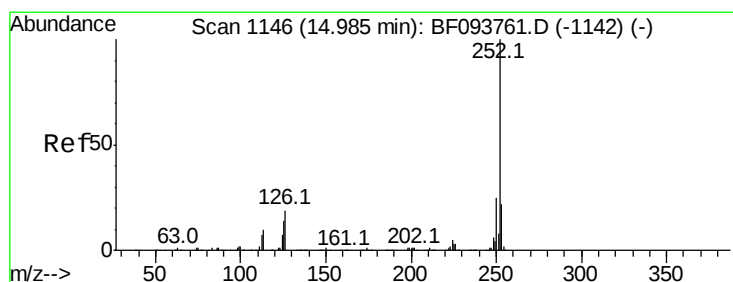
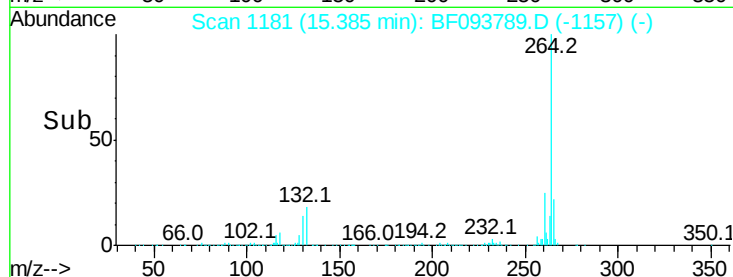
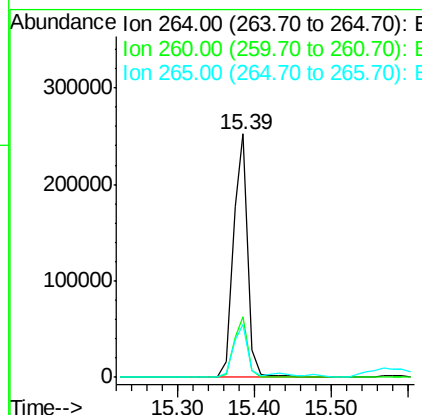
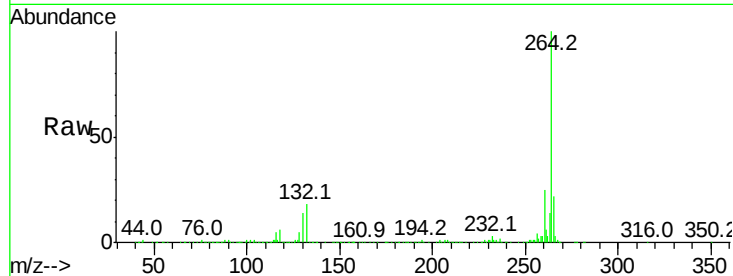
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Instrument :
BNA_F
ClientSampleId :
CTMIX-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	22.0	17.2	25.8

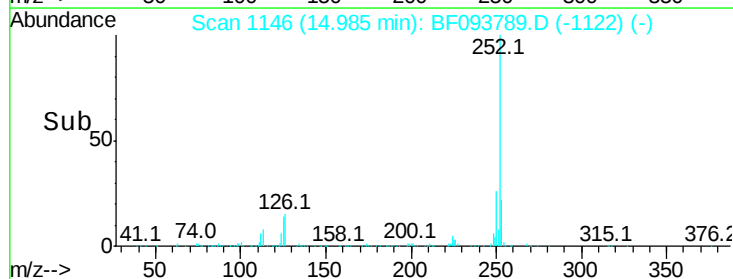
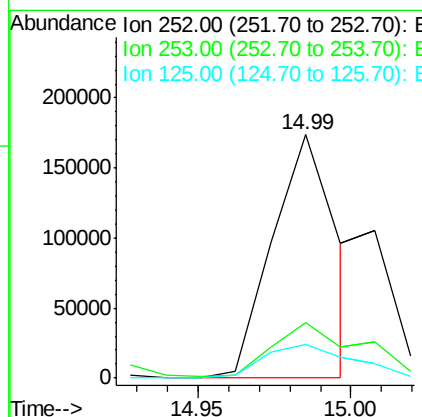
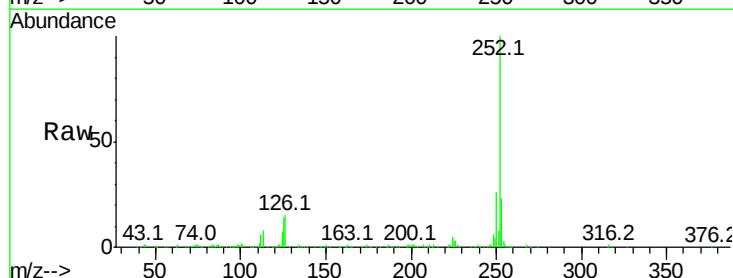
Manual Integrations
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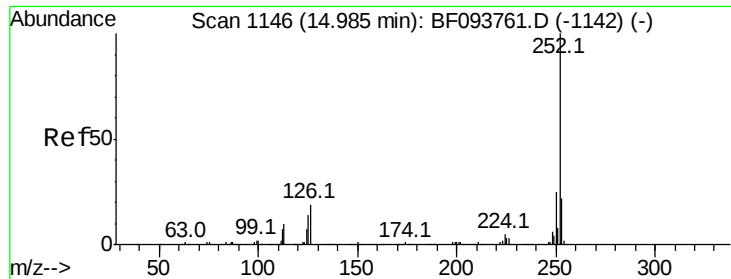
mohammad
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#87
Benzo(b)fluoranthene
Concen: 11.34 ng m
RT: 14.99 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	14.0	9.8	14.8





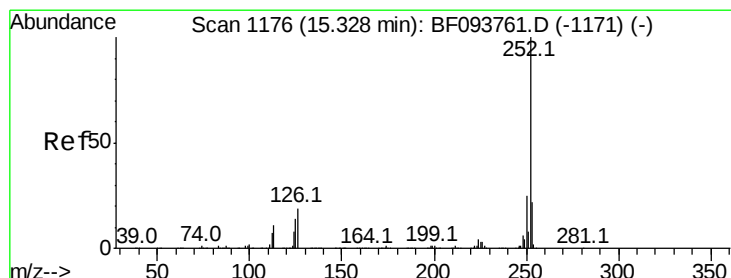
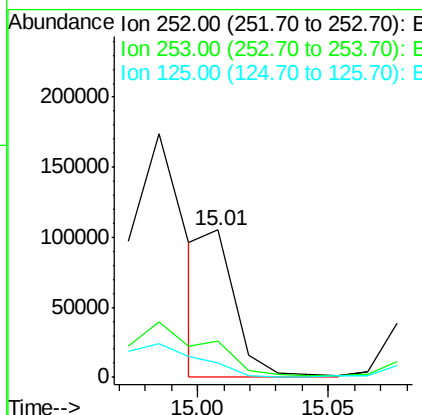
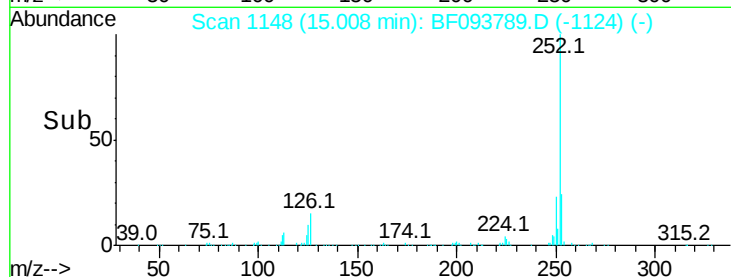
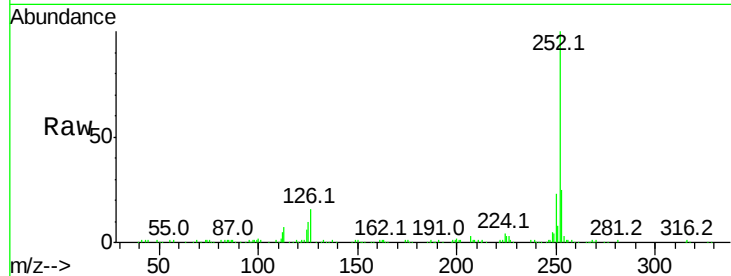
#88
Benzo(k)fluoranthene
Concen: 5.29 ng m
RT: 15.01 min Scan# 1148
Delta R.T. -0.02 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Instrument :
BNA_F
ClientSampleId :
CTMIX-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.4	27.6
125	10.2	13.1	19.7

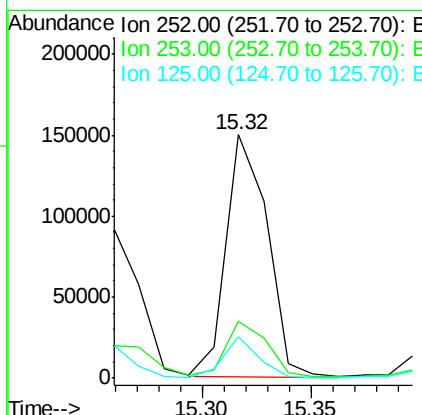
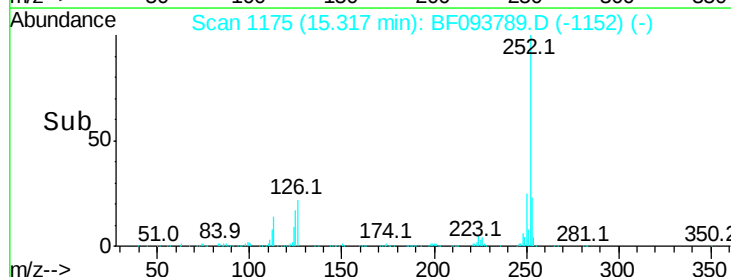
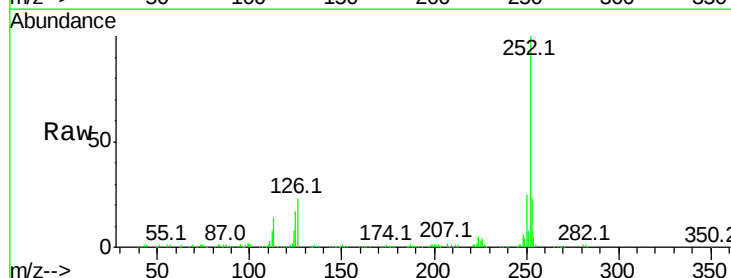
Manual Integrations
APPROVED

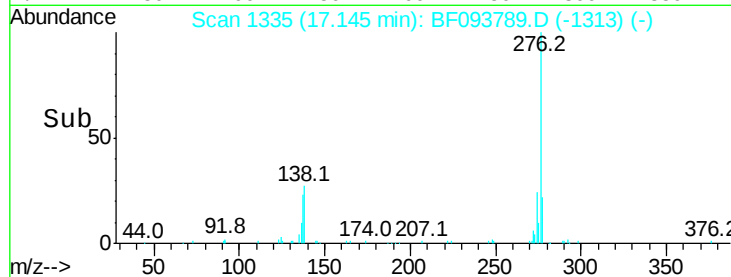
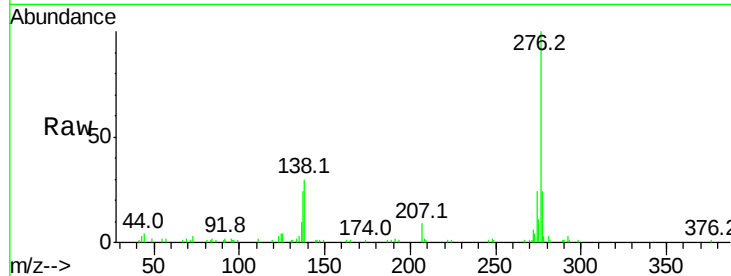
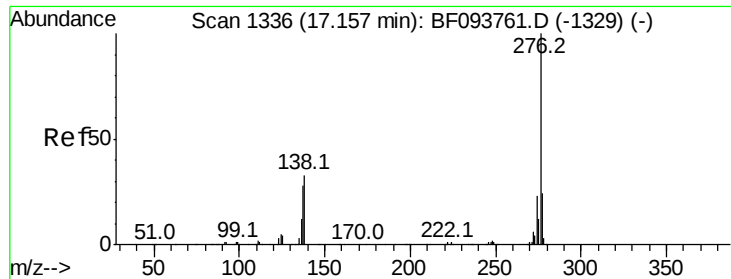
mohammad
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#89
Benzo(a)pyrene
Concen: 10.81 ng
RT: 15.32 min Scan# 1175
Delta R.T. -0.03 min
Lab File: BF093789.D
Acq: 21 Mar 2017 2:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	16.9	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 4.78 ng

RT: 17.15 min Scan# 1335

Delta R.T. -0.05 min

Lab File: BF093789.D

Acq: 21 Mar 2017 2:44

Tot Ion:	276	Resp:	71944
Ion Ratio	Lower	Upper	
276	100		
277	23.5	18.6	28.0
138	30.0	25.4	38.0

Instrument :

BNA_F

ClientSampleId :

CTMIX-3

Manual Integrations
APPROVED

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