

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
 Data File : BF093780.D
 Acq On : 20 Mar 2017 22:38
 Operator : SJ/MA
 Sample : I2318-01 20X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-00

Manual Integrations
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Quant Time: Mar 21 11:34:57 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	243752	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	846922	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	404792	20.00	ng	-0.01
63) Phenanthrene-d10	11.36	188	554780	20.00	ng	0.00
75) Chrysene-d12	13.99	240	351850	20.00	ng	-0.01
86) Perylene-d12	15.40	264	364524	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	77433	5.56	ng	-0.02
7) Phenol-d6	6.45	99	95230	5.53	ng	-0.03
23) Nitrobenzene-d5	7.38	82	52758	3.53	ng	-0.02
41) 2,4,6-Tribromophenol	10.65	330	10892	3.47	ng	-0.02
44) 2-Fluorobiphenyl	9.20	172	115171	4.78	ng	-0.01
78) Terphenyl-d14	12.94	244	61804	3.58	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.16	128	8257887	210.07	ng	96
37) 2-Methylnaphthalene	8.85	142	2621955	102.18	ng	99
45) 1,1'-Biphenyl	9.29	154	831672	25.28	ng	96
48) Acenaphthylene	9.74	152	2151931	52.42	ng	97
51) Acenaphthene	9.91	154	670905	27.36	ng	97
54) Dibenzofuran	10.08	168	1061171	32.16	ng	# 96
57) Fluorene	10.42	166	1783157m	70.57	ng	
70) Phenanthrene	11.40	178	4733471	160.21	ng	98
71) Anthracene	11.44	178	2139382	70.33	ng	99
72) Carbazole	11.58	167	526993	17.50	ng	99
74) Fluoranthene	12.57	202	2579699	84.94	ng	98
77) Pylene	12.80	202	3595791	122.80	ng	98
80) Benzo(a)anthracene	13.98	228	1336761m	60.65	ng	
82) Chrysene	14.01	228	1202396m	54.60	ng	
85) Indeno(1,2,3-cd)pyrene	16.77	276	423942	23.51	ng	96
87) Benzo(b)fluoranthene	15.01	252	962532m	39.17	ng	
88) Benzo(k)fluoranthene	15.01	252	511372m	28.18	ng	
89) Benzo(a)pyrene	15.35	252	1108335	55.62	ng	95
90) Dibenzo(a,h)anthracene	16.77	278	124916	7.55	ng	# 81
91) Benzo(a,h,i)perylene	17.18	276	502485	30.60	ng	99

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

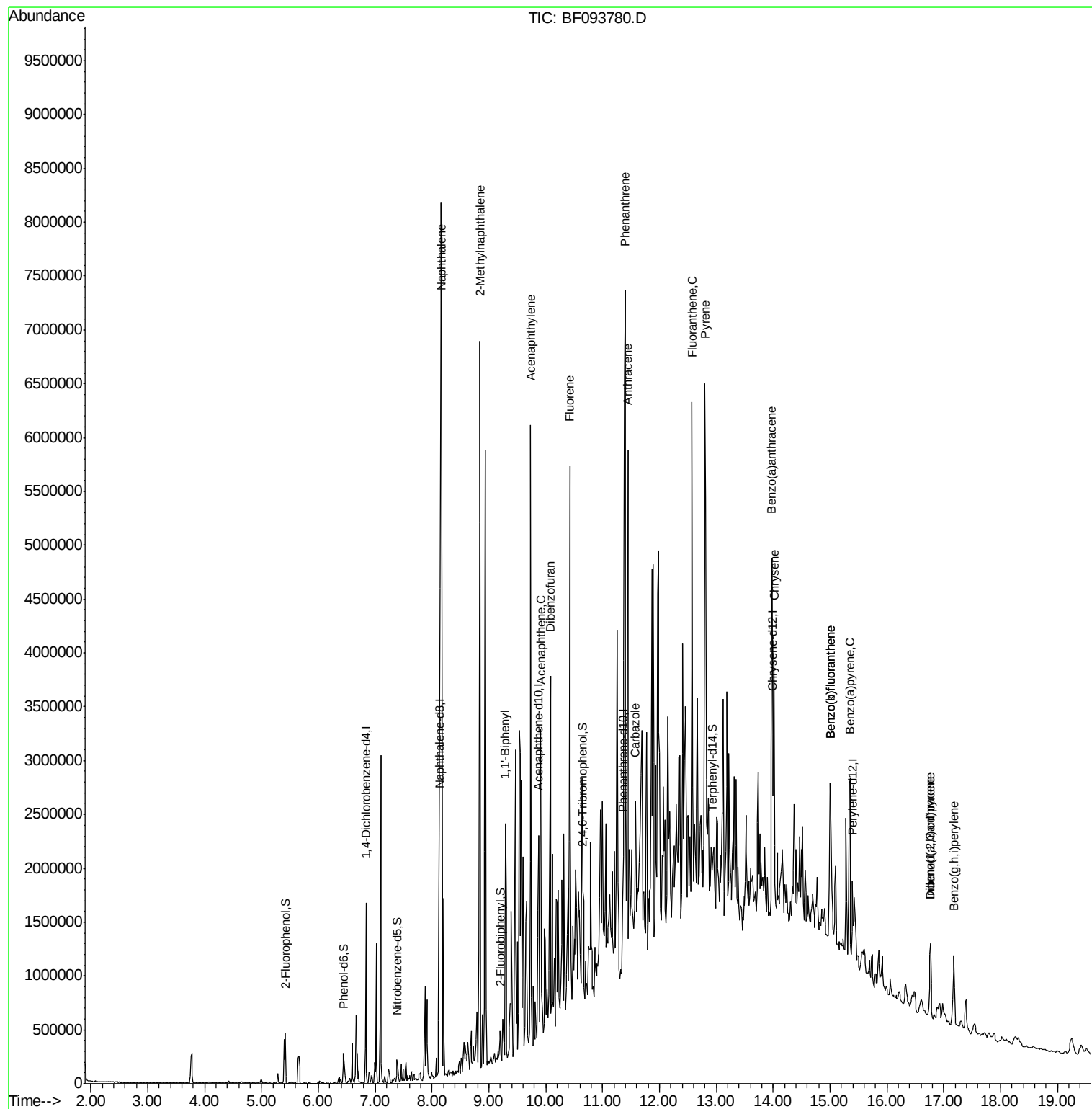
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
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ALS Vial : 15 Sample Multiplier: 1

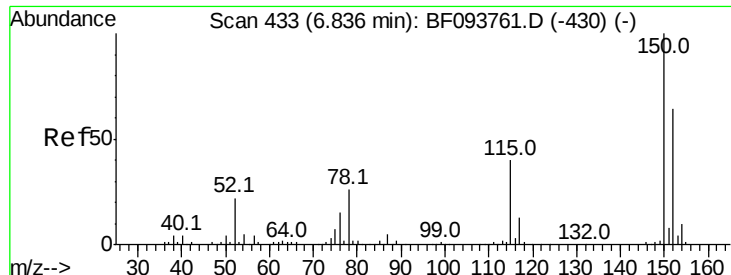
Instrument :
BNA_F
ClientSampleId :
HP-CT-00

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

ClientSampleId :

HP-CT-00

Tot Ion:152 Resp: 243752

Ion Ratio Lower Upper

152 100

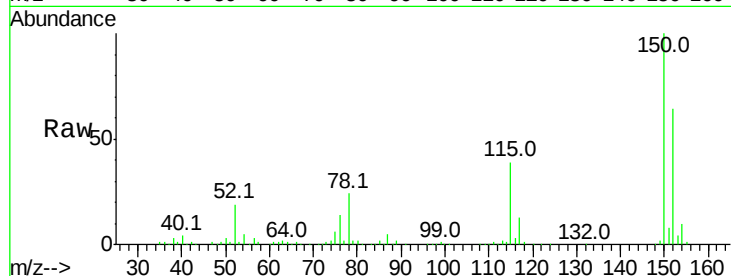
150 155.8 126.2 189.2

115 60.8 52.2 78.2

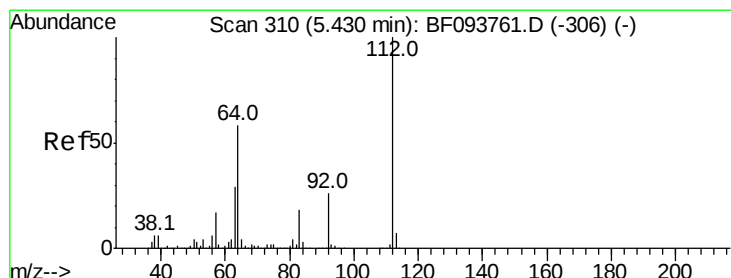
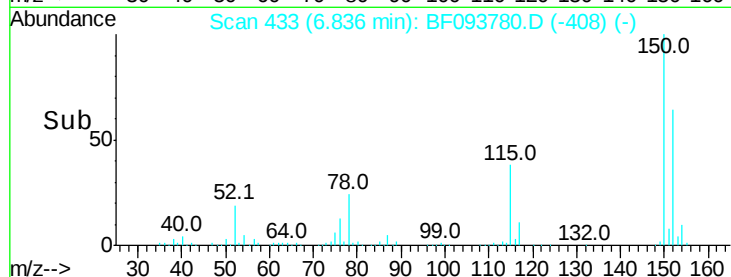
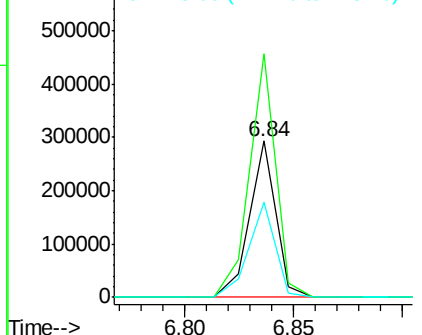
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 5.56 ng

RT: 5.42 min Scan# 309

Delta R.T. -0.02 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

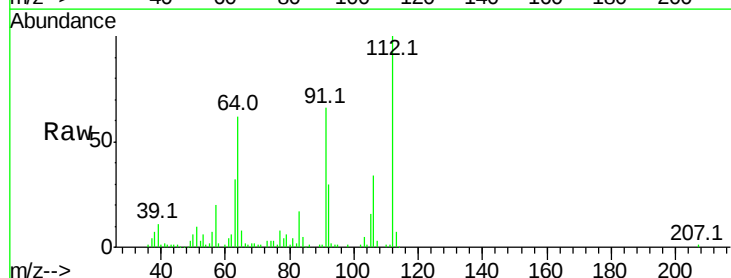
Tgt Ion:112 Resp: 77433

Ion Ratio Lower Upper

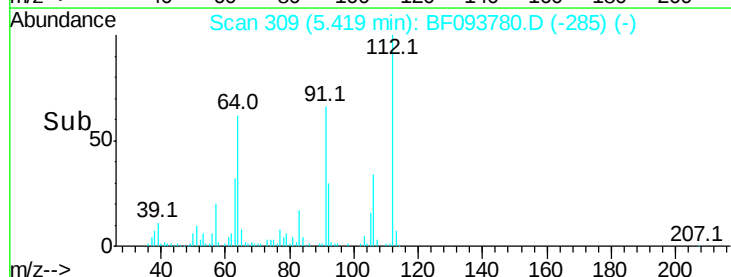
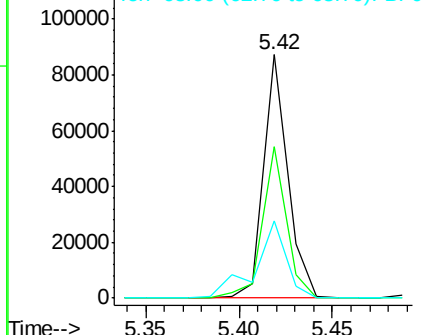
112 100

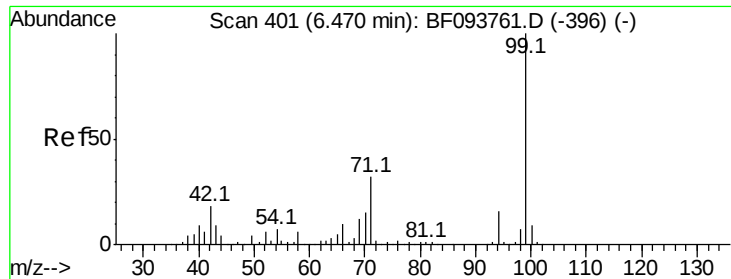
64 62.0 46.0 69.0

63 31.9 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: 5.53 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.03 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

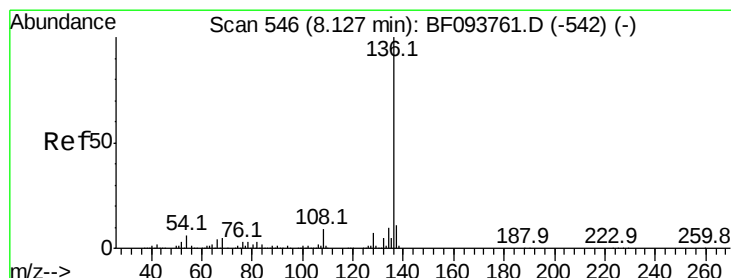
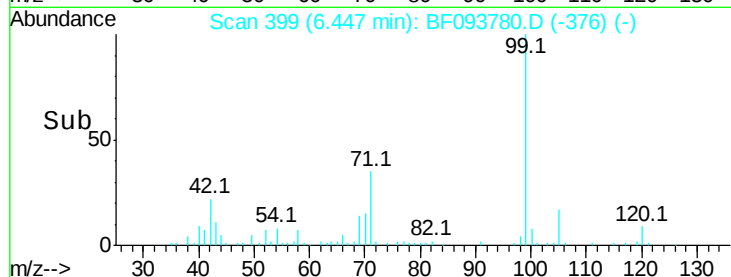
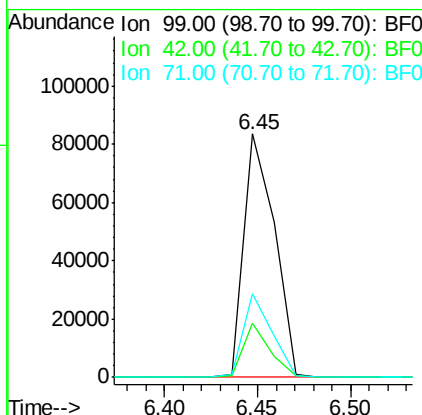
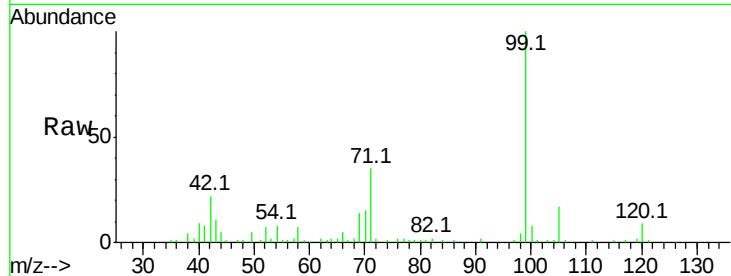
ClientSampleId :

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		95230		
42	22.3	13.5	20.3#		
71	34.5	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

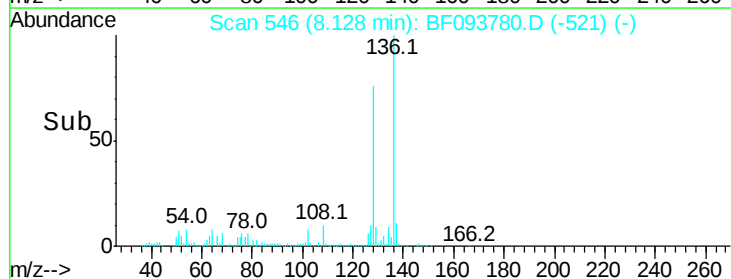
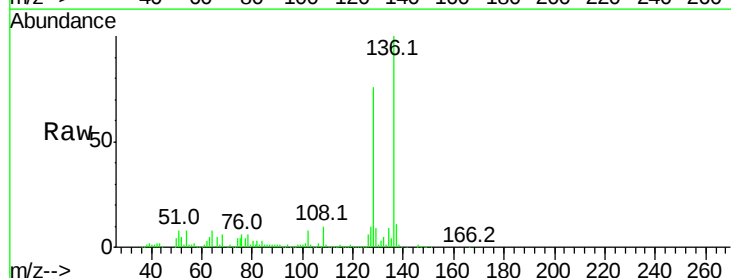
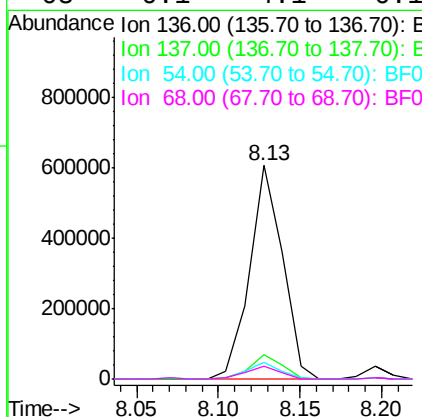
RT: 8.13 min Scan# 546

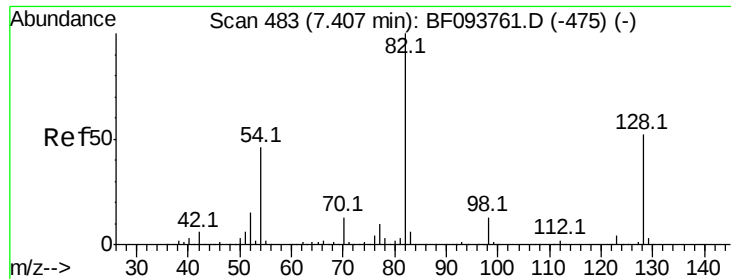
Delta R.T. -0.01 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		846922		
137	11.3	8.5	12.7		
54	7.9	4.9	7.3#		
68	6.1	4.1	6.1		





#23

Nitrobenzene-d5

Concen: 3.53 ng

RT: 7.38 min Scan# 481

Delta R.T. -0.02 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

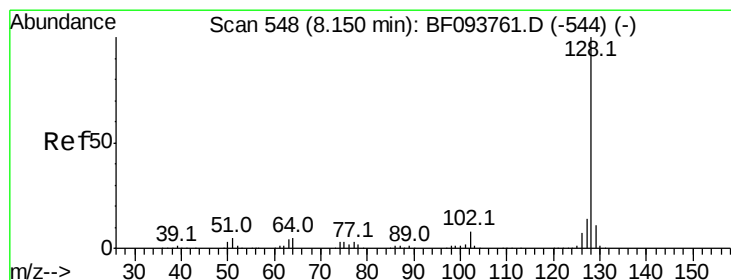
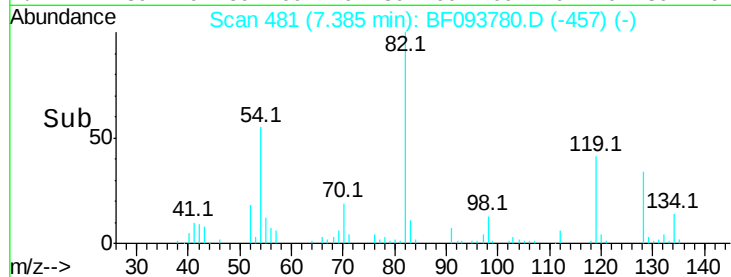
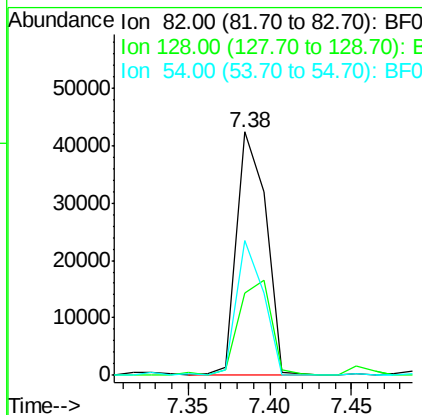
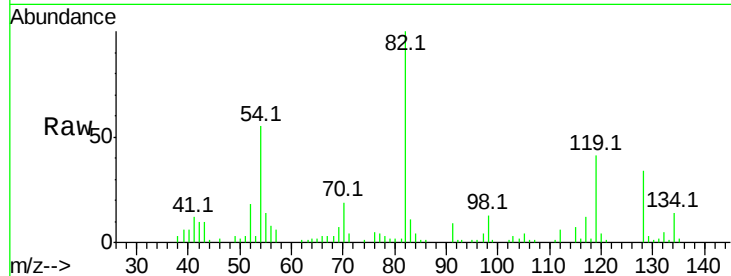
ClientSampleId :

HP-CT-00

Tot Ion:	82	Resp:	52758
Ion Ratio	Lower	Upper	
82	100		
128	33.8	34.0	51.0#
54	55.2	42.2	63.2

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#31

Naphthalene

Concen: 210.07 ng

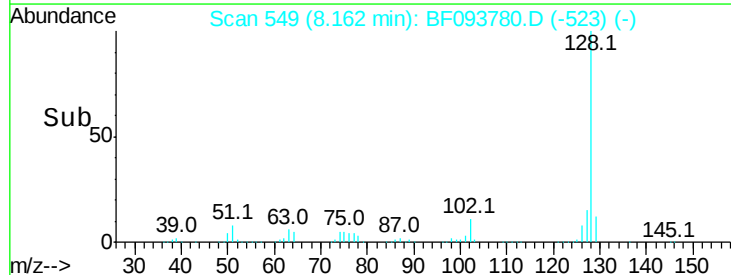
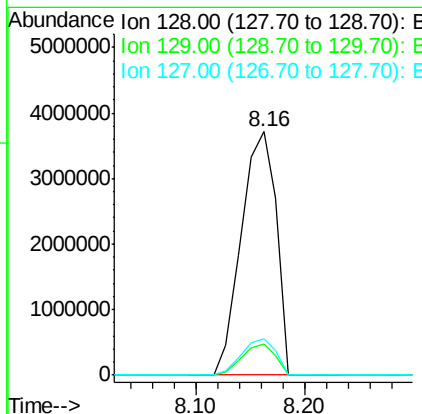
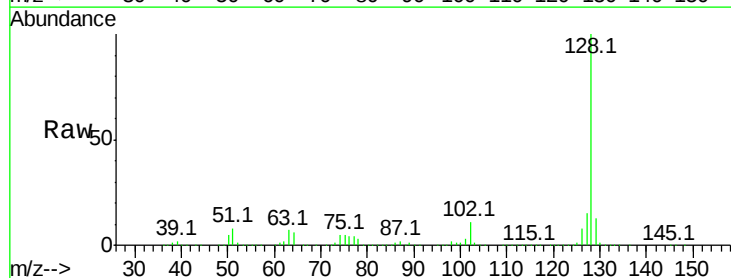
RT: 8.16 min Scan# 549

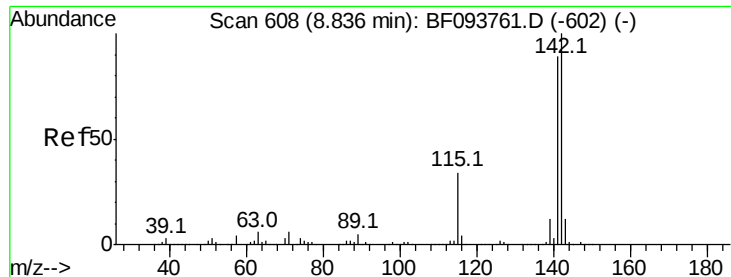
Delta R.T. 0.00 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Tgt Ion:	128	Resp:	8257887
Ion Ratio	Lower	Upper	
128	100		
129	12.6	9.0	13.6
127	15.1	10.8	16.2





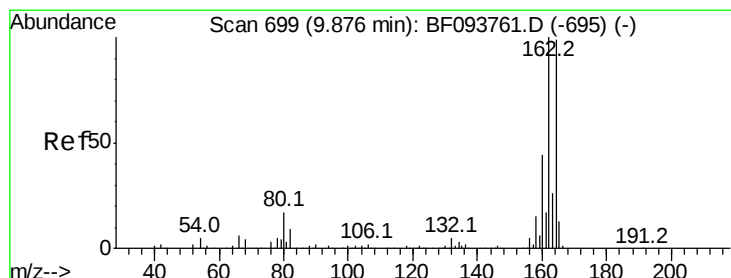
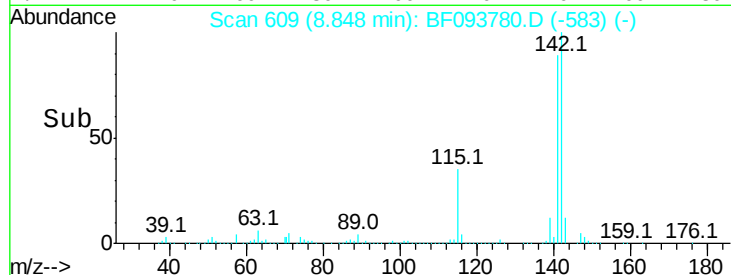
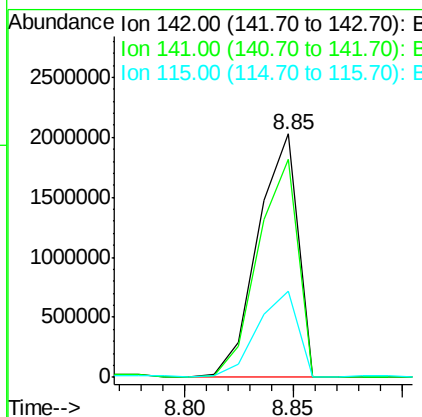
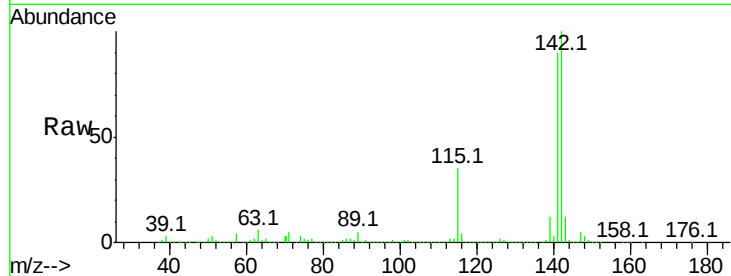
#37
2-Methylnaphthalene
Concen: 102.18 ng
RT: 8.85 min Scan# 609
Delta R.T. 0.00 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Instrument :
BNA_F
ClientSampleId :
HP-CT-00

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.3	106.9
115	35.2	27.1	40.7

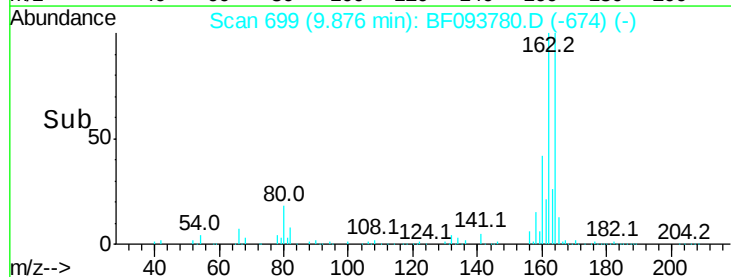
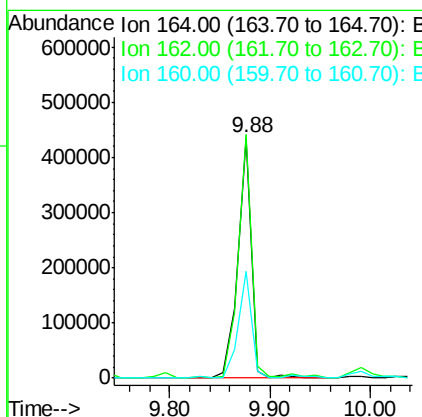
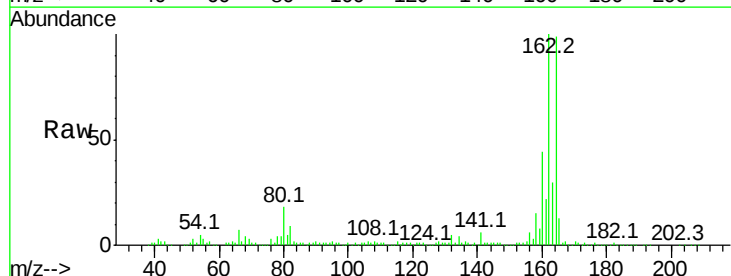
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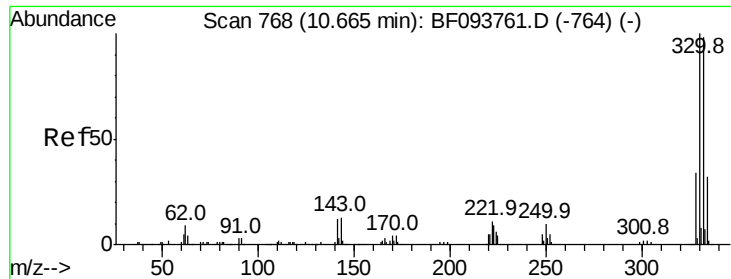
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.6	123.8
160	44.6	36.2	54.2





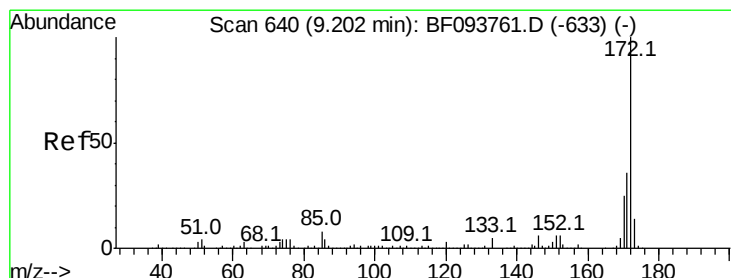
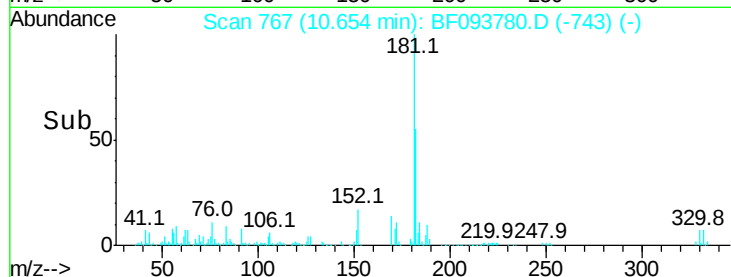
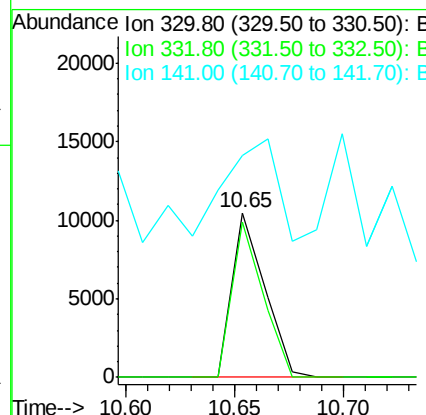
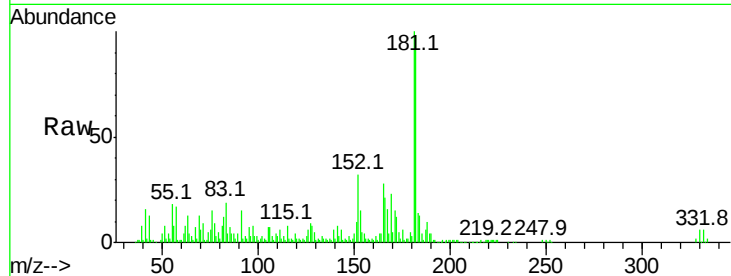
#41
 2,4,6-Tribromophenol
 Concen: 3.47 ng
 RT: 10.65 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF093780.D
 Acq: 20 Mar 2017 22:38

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-00

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	89.5	76.6	115.0	
141	96.3	31.4	47.2	

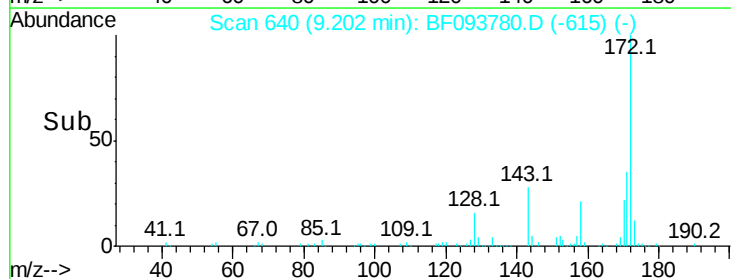
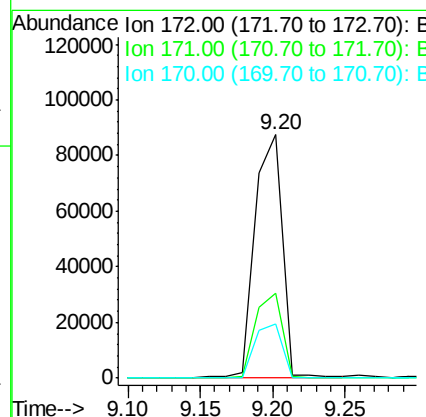
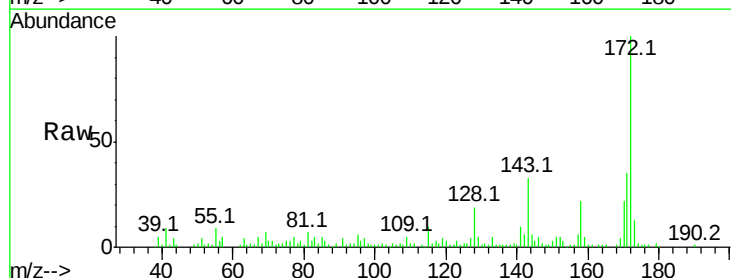
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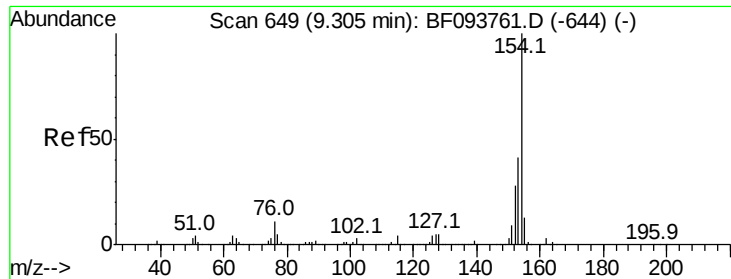
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#44
 2-Fluorobiphenyl
 Concen: 4.78 ng
 RT: 9.20 min Scan# 640
 Delta R.T. -0.01 min
 Lab File: BF093780.D
 Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.0	29.6	44.4	
170	22.4	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 25.28 ng

RT: 9.29 min Scan# 648

Delta R.T. -0.02 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

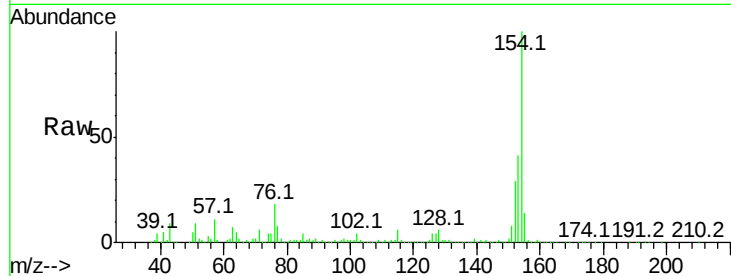
ClientSampleId :

HP-CT-00

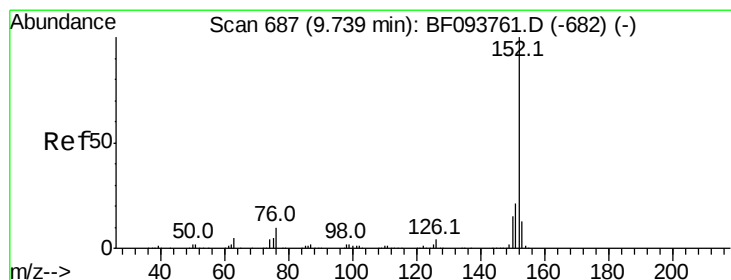
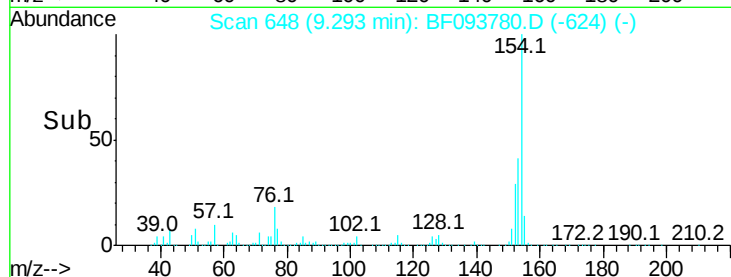
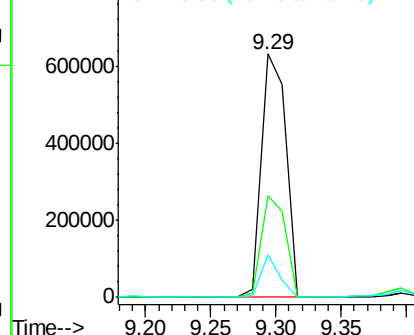
Tot Ion:	154	Resp:	831672
Ion Ratio	Lower	Upper	
154	100		
153	41.5	21.2	61.2
76	17.7	0.0	29.9

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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: 52.42 ng

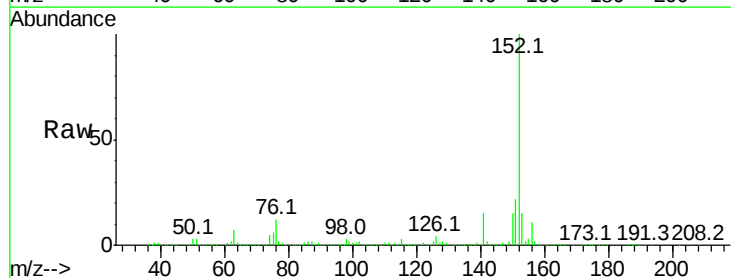
RT: 9.74 min Scan# 687

Delta R.T. -0.01 min

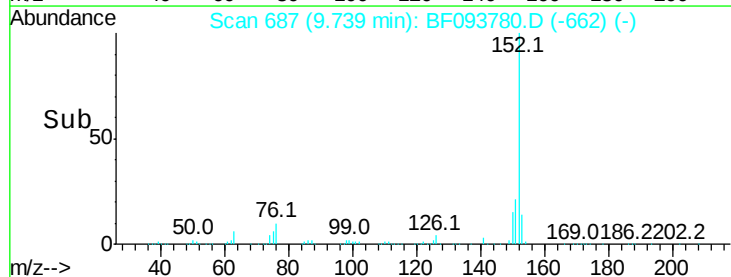
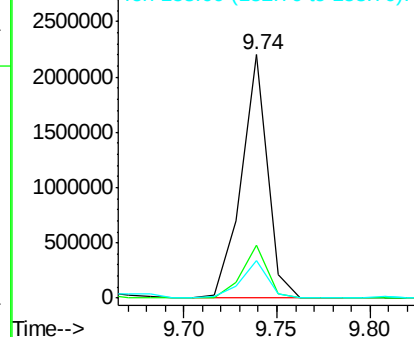
Lab File: BF093780.D

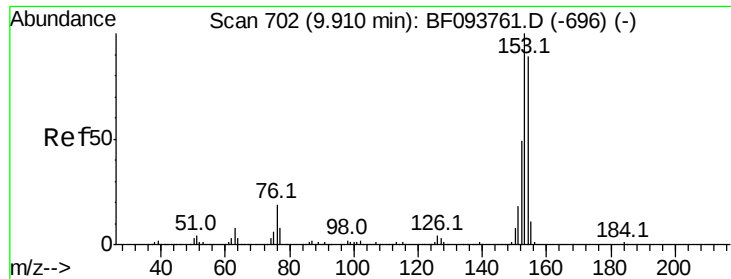
Acq: 20 Mar 2017 22:38

Tgt Ion:	152	Resp:	2151931
Ion Ratio	Lower	Upper	
152	100		
151	21.6	16.8	25.2
153	15.5	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: 27.36 ng

RT: 9.91 min Scan# 702

Delta R.T. -0.01 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

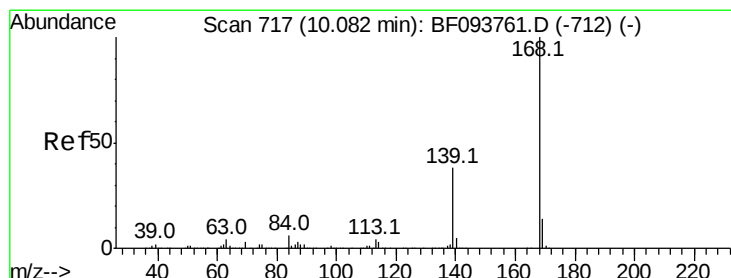
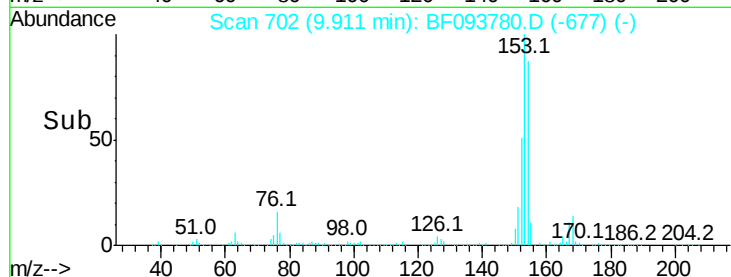
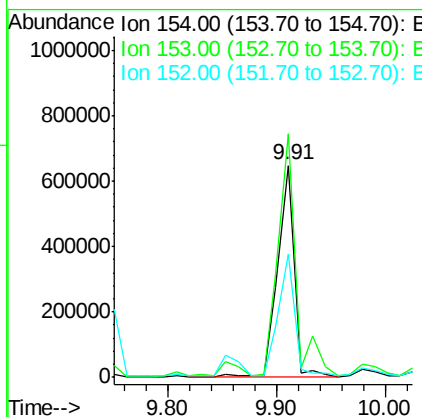
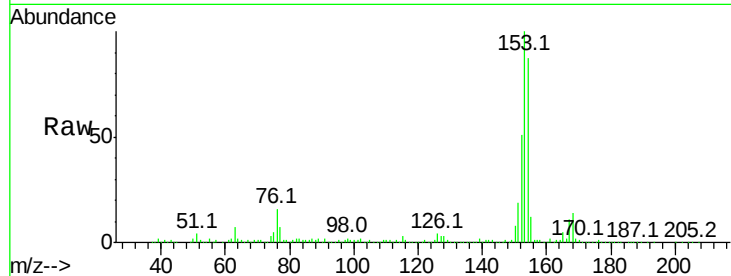
ClientSampleId :

HP-CT-00

Tot Ion:	154	Resp:	670905
Ion Ratio	Lower	Upper	
154	100		
153	114.8	90.5	135.7
152	58.1	43.6	65.4

Manual Integrations
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#54

Dibenzofuran

Concen: 32.16 ng

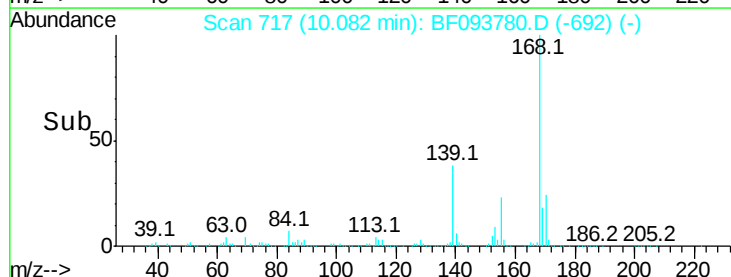
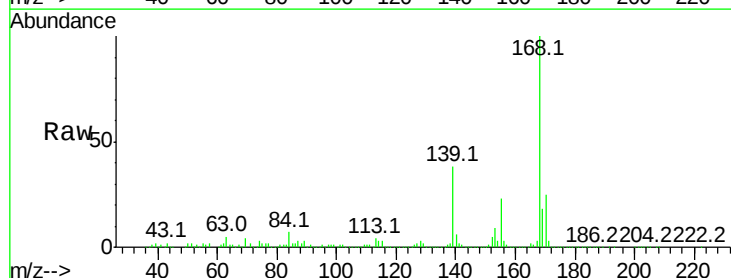
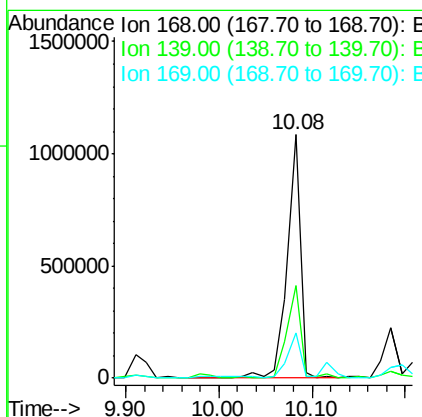
RT: 10.08 min Scan# 717

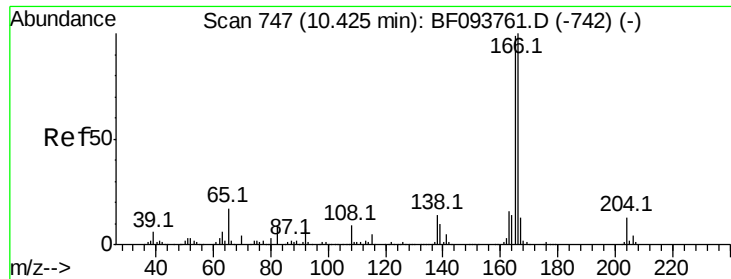
Delta R.T. -0.01 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Tgt Ion:	168	Resp:	1061171
Ion Ratio	Lower	Upper	
168	100		
139	37.9	30.6	45.8
169	18.4	10.8	16.2#





#57

Fluorene

Concen: 70.57 ng/mL

RT: 10.42 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

ClientSampleId :

HP-CT-00

Tot Ion:166 Resp: 1783157

Ion Ratio Lower Upper

166 100

165 99.9 78.8 118.2

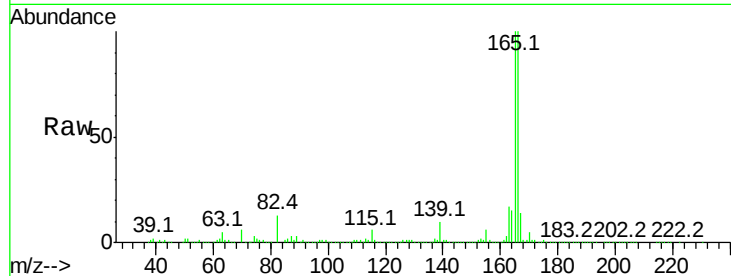
167 14.4 10.6 16.0

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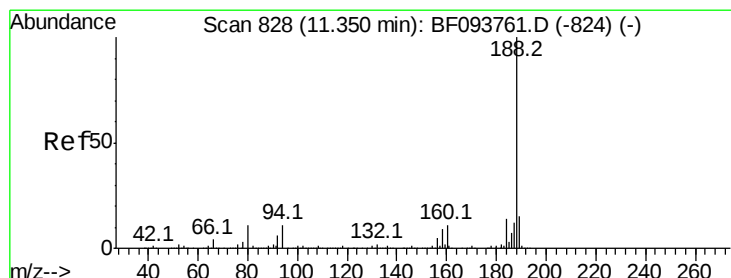
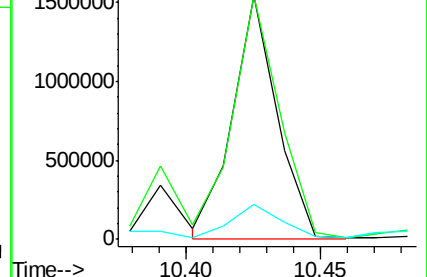
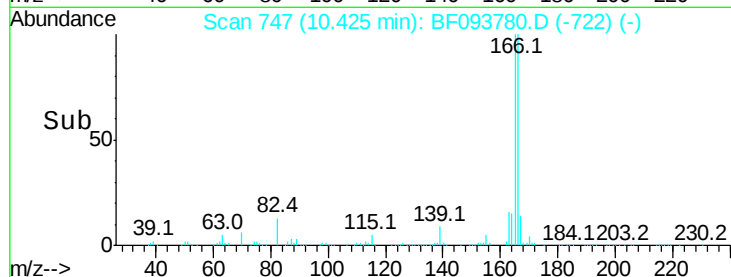
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng/mL

RT: 11.36 min Scan# 829

Delta R.T. 0.00 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

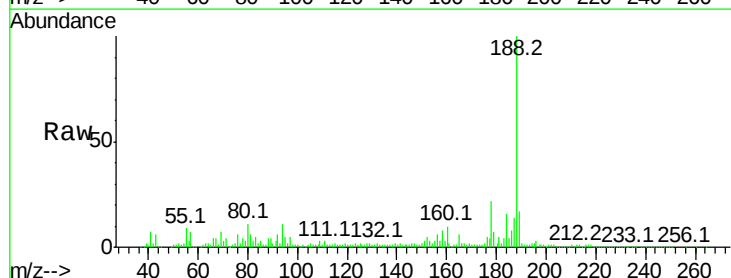
Tgt Ion:188 Resp: 554780

Ion Ratio Lower Upper

188 100

94 11.0 9.4 14.2

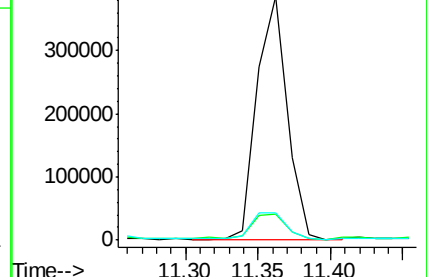
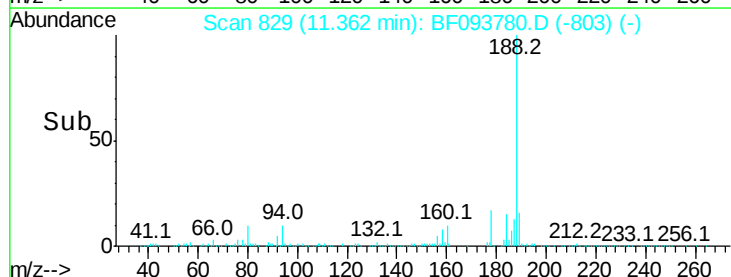
80 11.1 10.2 15.2

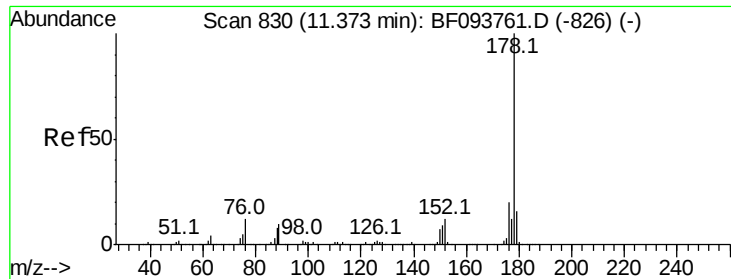


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





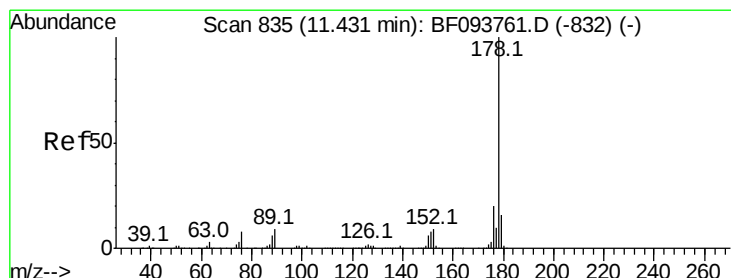
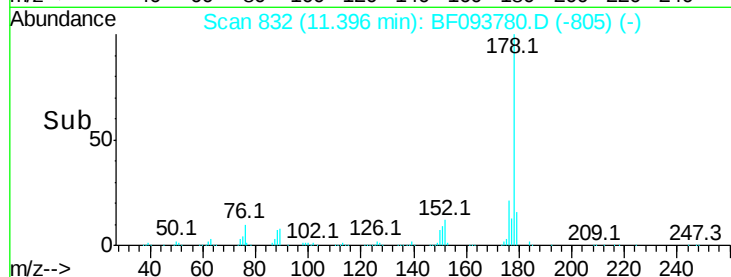
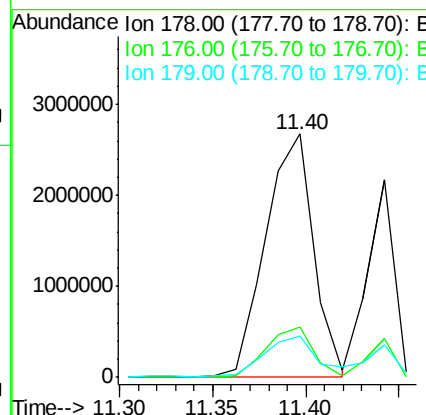
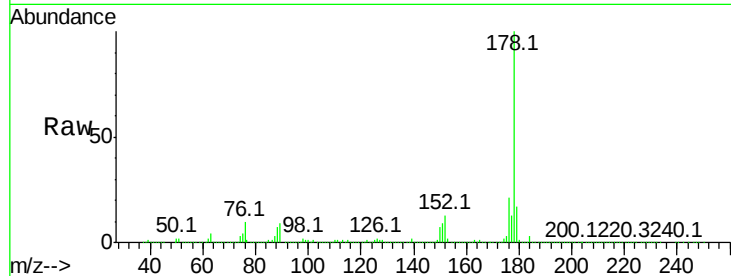
#70
Phenanthrene
Concen: 160.21 ng
RT: 11.40 min Scan# 832
Delta R.T. 0.01 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Instrument :
BNA_F
ClientSampleId :
HP-CT-00

Tot Ion:178 Resp: 4733471
Ion Ratio Lower Upper
178 100
176 20.8 16.2 24.4
179 16.9 12.6 19.0

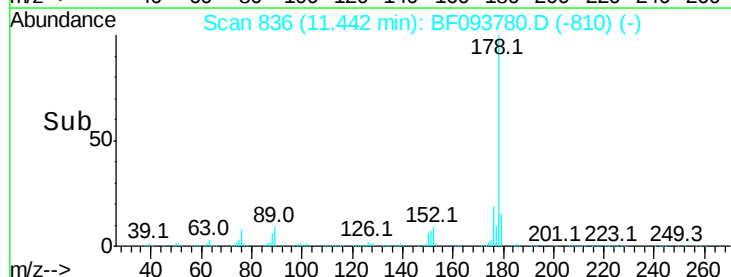
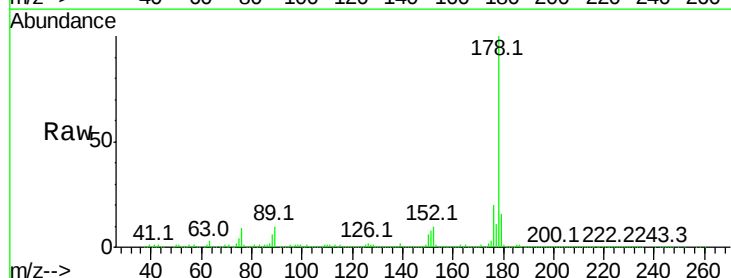
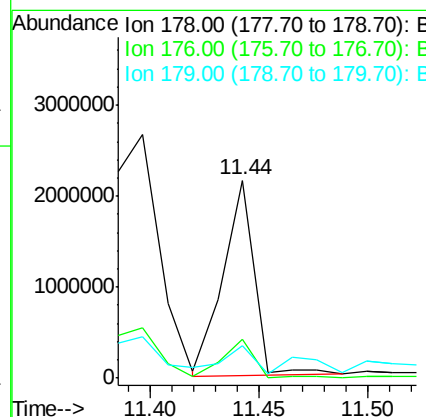
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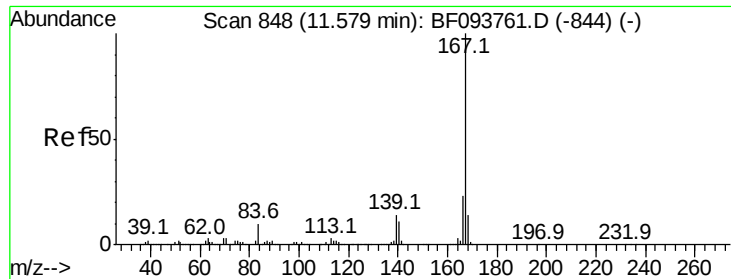
mohammad
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#71
Anthracene
Concen: 70.33 ng
RT: 11.44 min Scan# 836
Delta R.T. 0.00 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Tgt Ion:178 Resp: 2139382
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 16.4 12.7 19.1





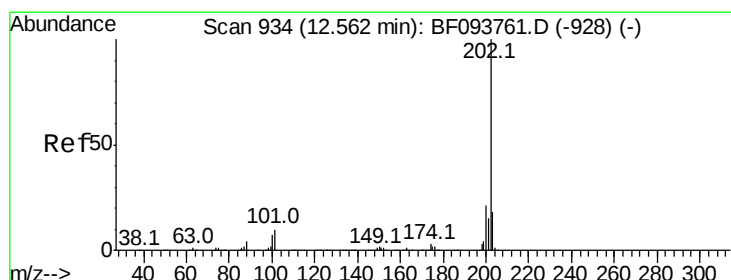
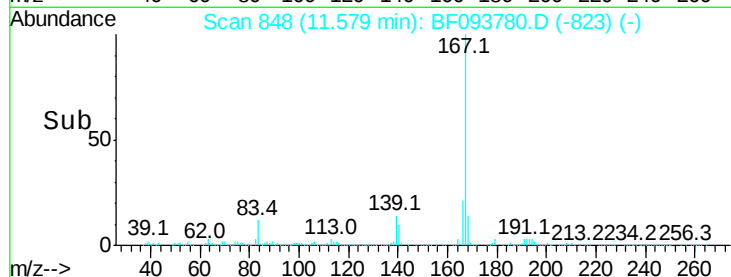
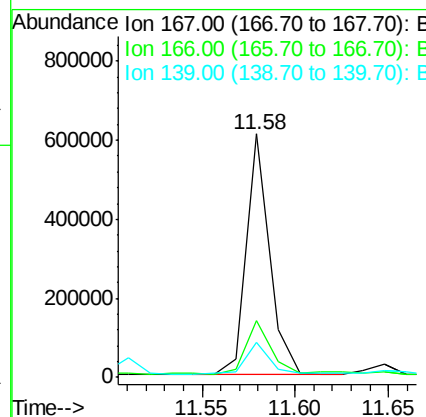
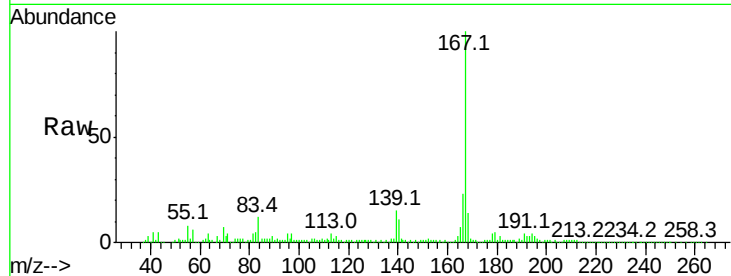
#72
 Carbazole
 Concen: 17.50 ng
 RT: 11.58 min Scan# 848
 Delta R.T. -0.01 min
 Lab File: BF093780.D
 Acq: 20 Mar 2017 22:38

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-00

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.2	18.1	27.1
139	14.6	11.7	17.5

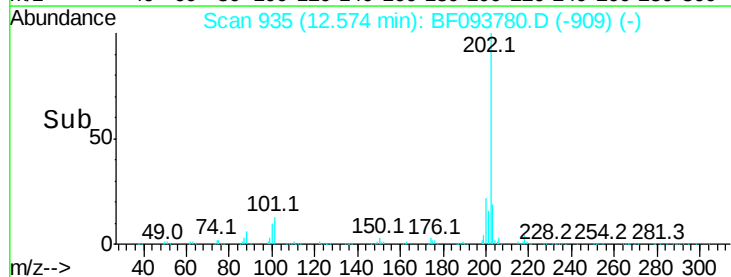
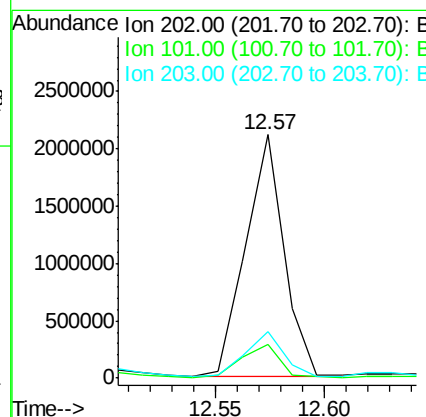
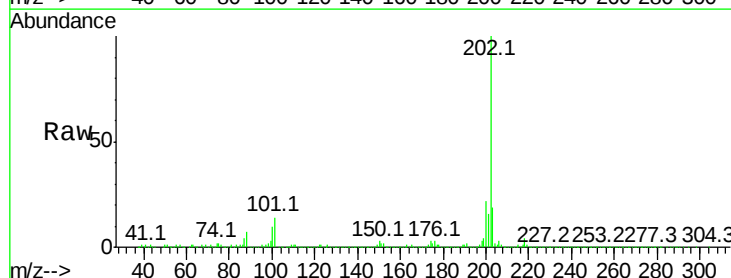
Manual Integrations
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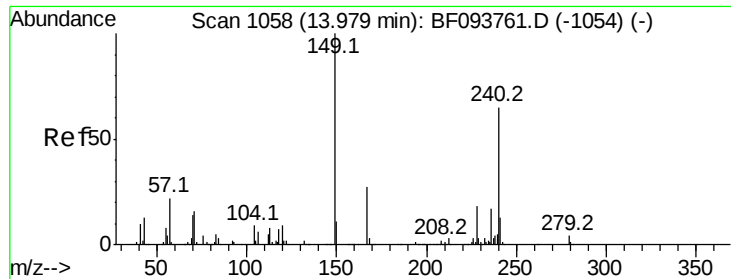
mohammad
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#74
 Fluoranthene
 Concen: 84.94 ng
 RT: 12.57 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: BF093780.D
 Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	33.2
203	19.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.99 min Scan# 1059

Delta R.T. -0.01 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

ClientSampleId :

HP-CT-00

Tot Ion:240 Resp: 351850

Ion Ratio Lower Upper

240 100

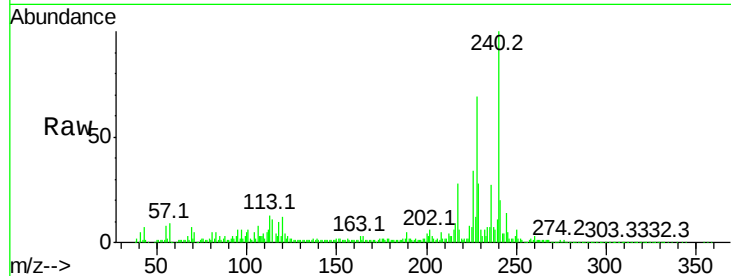
120 12.4 5.8 8.8#

236 26.7 20.5 30.7

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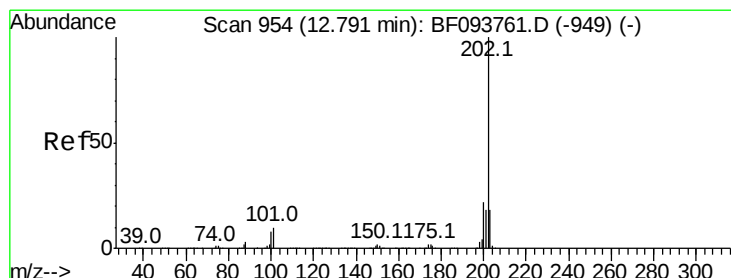
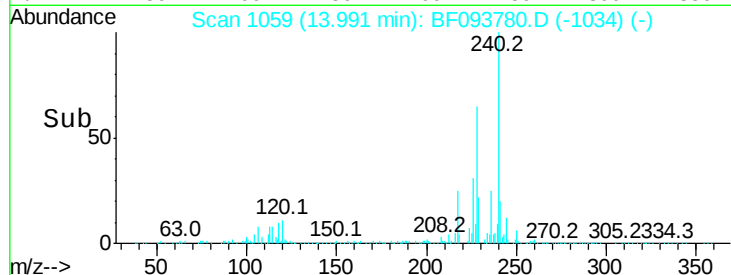
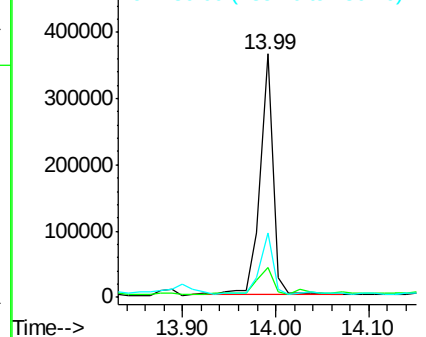
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 122.80 ng

RT: 12.80 min Scan# 955

Delta R.T. 0.00 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

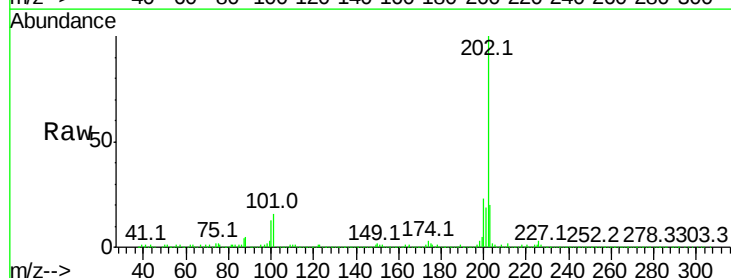
Tgt Ion:202 Resp: 3595791

Ion Ratio Lower Upper

202 100

200 22.6 17.6 26.4

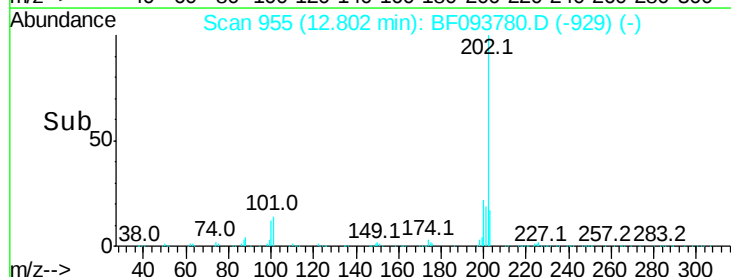
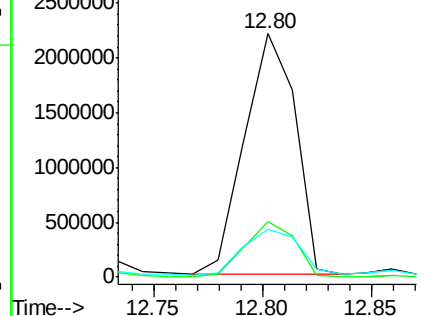
203 19.8 14.4 21.6

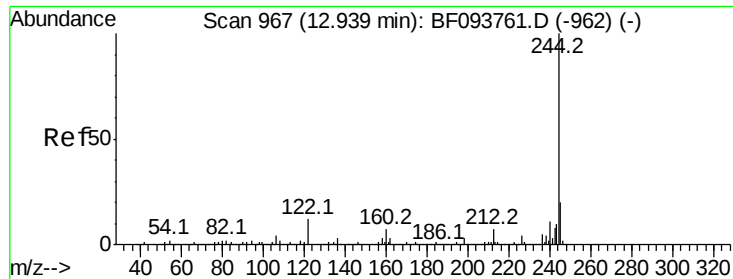


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.58 ng

RT: 12.94 min Scan# 967

Delta R.T. -0.01 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Instrument :

BNA_F

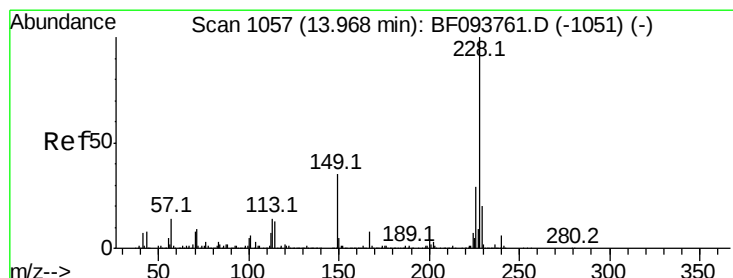
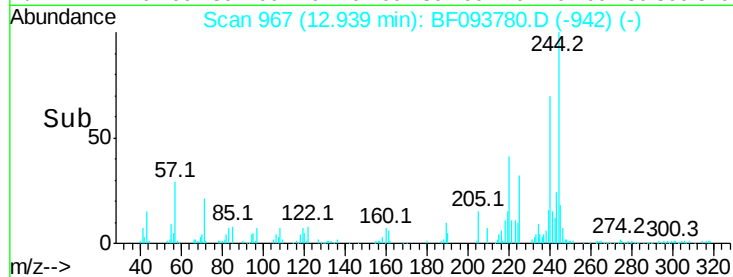
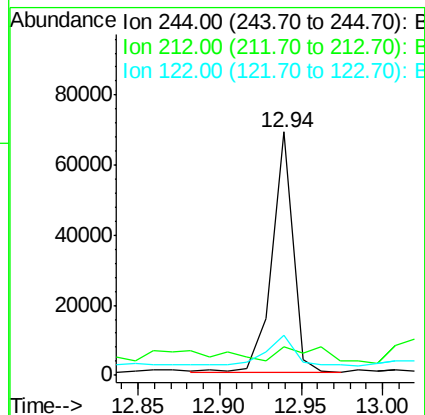
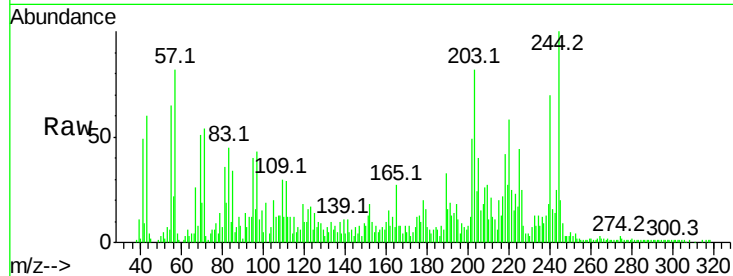
ClientSampleId :

HP-CT-00

Tot Ion	Ratio	Lower	Upper
244	100		
212	11.7	6.0	9.0#
122	16.4	10.3	15.5#

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#80

Benzo(a)anthracene

Concen: 60.65 ng m

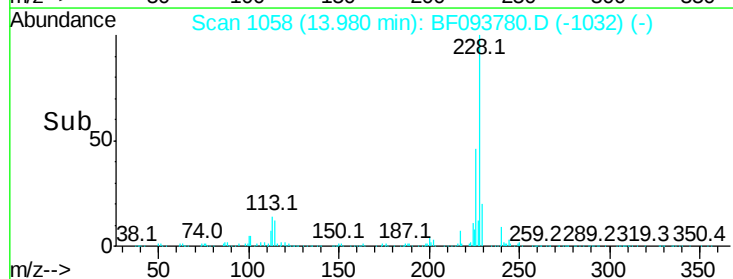
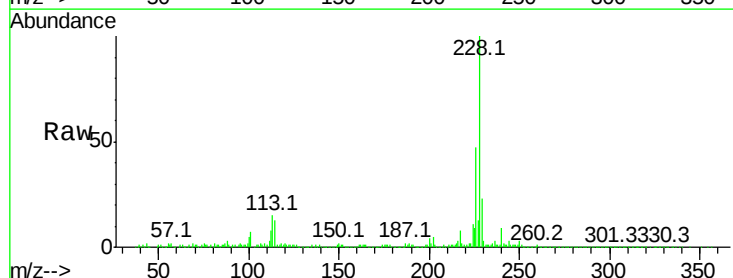
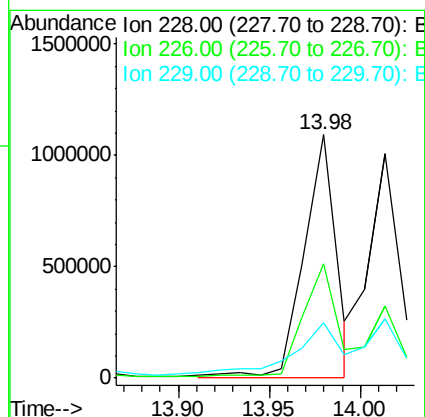
RT: 13.98 min Scan# 1058

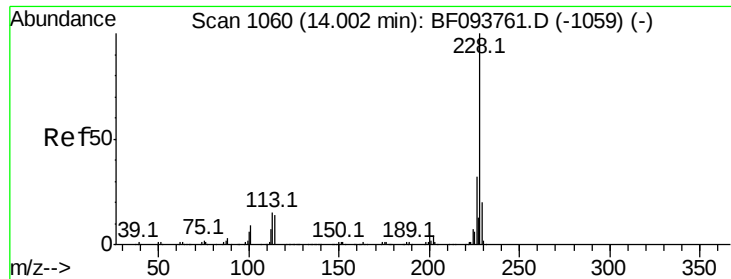
Delta R.T. 0.00 min

Lab File: BF093780.D

Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	47.2	22.6	33.8#
229	22.7	16.3	24.5





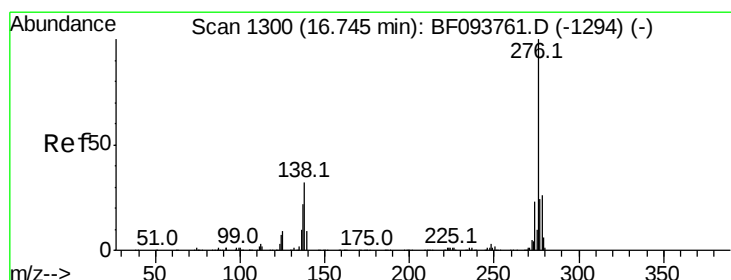
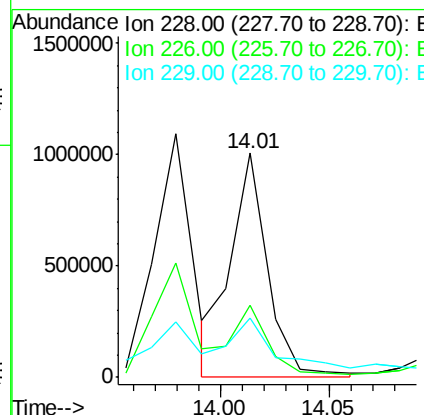
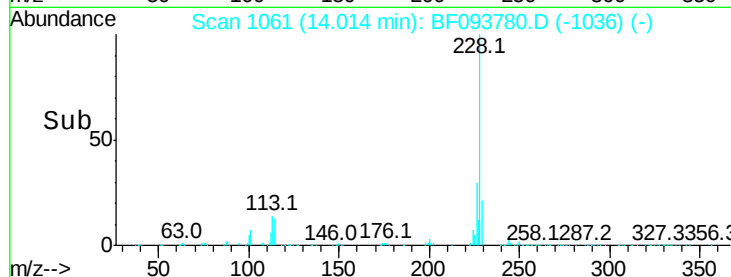
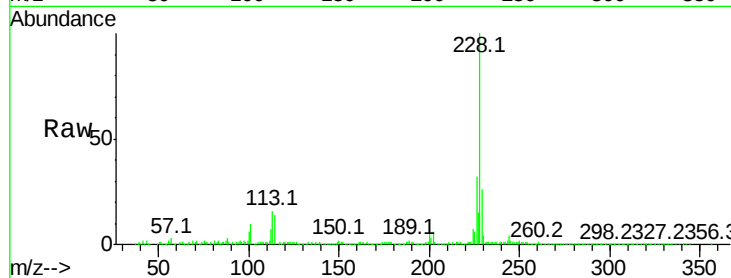
#82
Chrysene
Concen: 54.60 ng/ml
RT: 14.01 min Scan# 1061
Delta R.T. -0.01 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Instrument :
BNA_F
ClientSampleId :
HP-CT-00

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.9	37.3
229	26.2	15.8	23.6

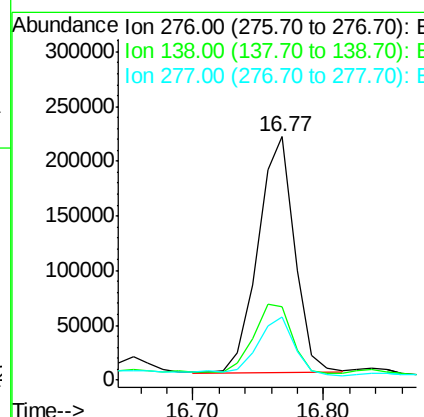
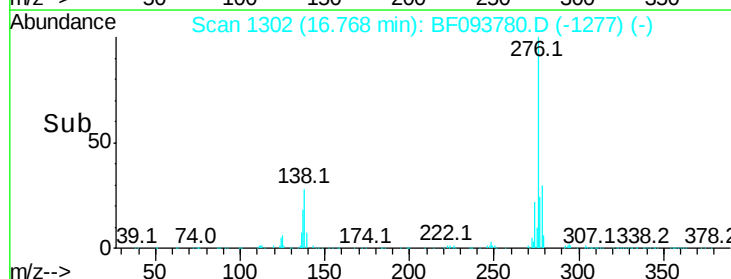
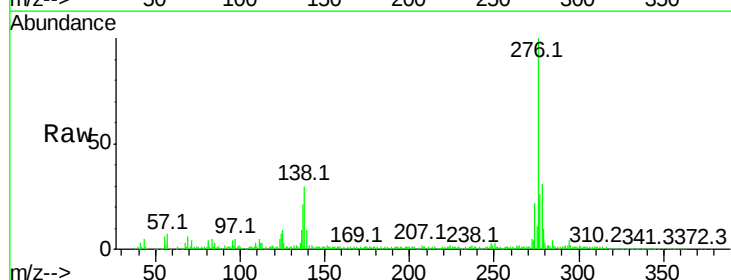
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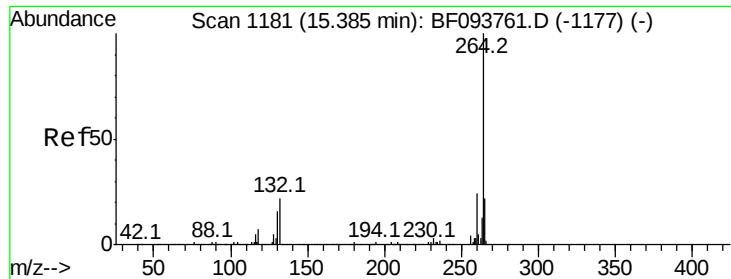
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#85
Indeno(1,2,3-cd)pyrene
Concen: 23.51 ng/ml
RT: 16.77 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Lower	Upper
276	100		
138	31.0	27.8	41.6
277	25.7	20.2	30.4





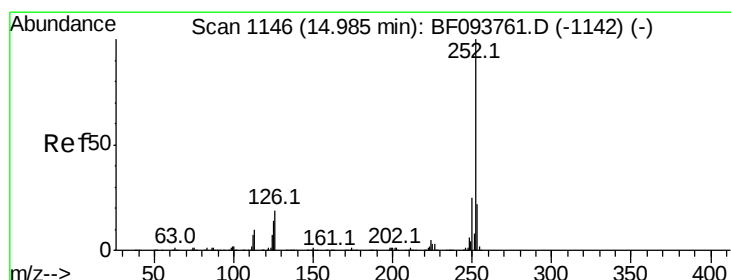
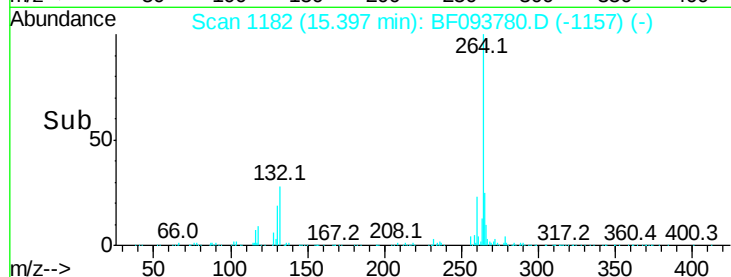
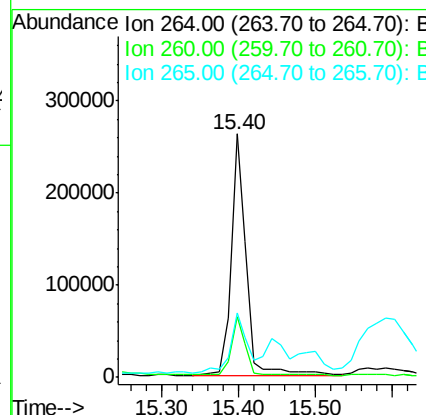
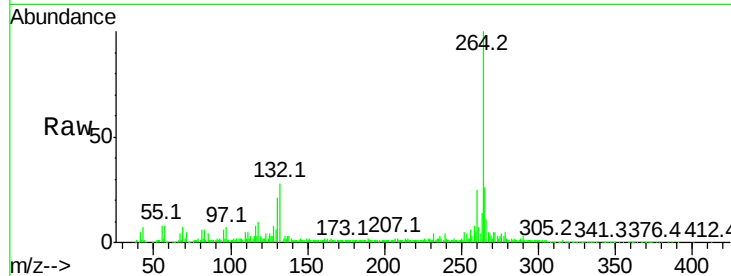
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Instrument :
BNA_F
ClientSampleId :
HP-CT-00

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	26.3	17.2	25.8

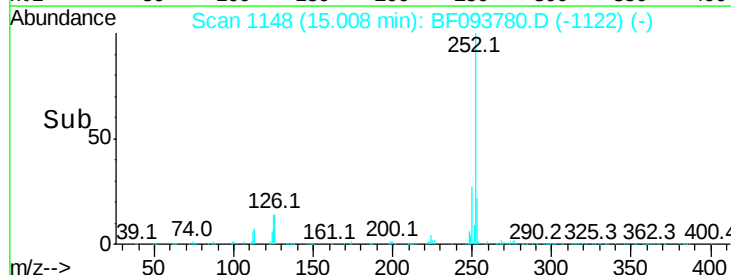
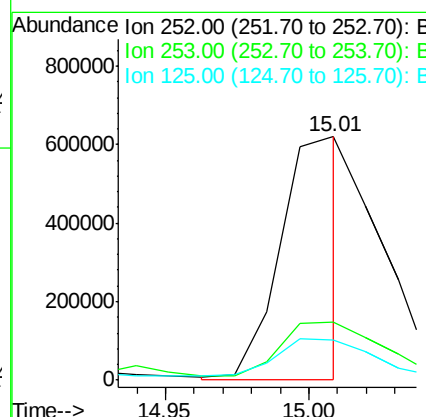
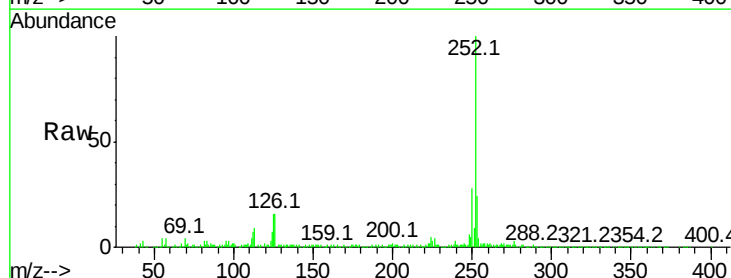
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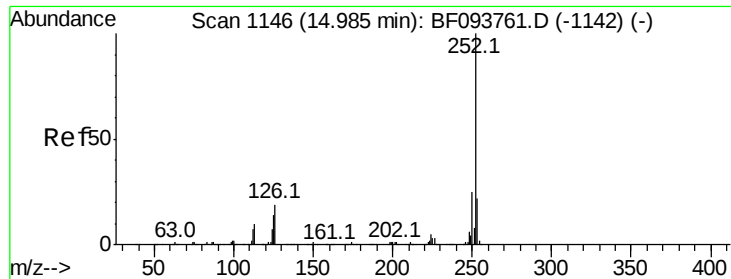
mohammad
3/21/2017 2:45:36 PM



#87
Benzo(b)fluoranthene
Concen: 39.17 ng m
RT: 15.01 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	16.4	9.8	14.8





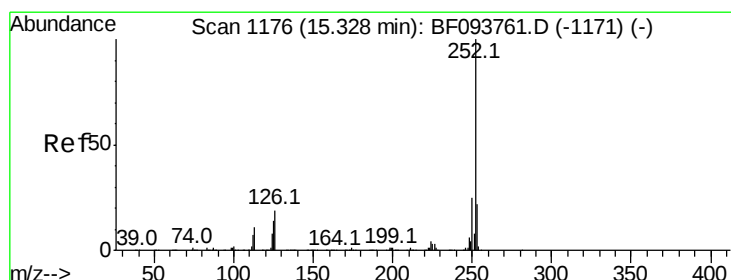
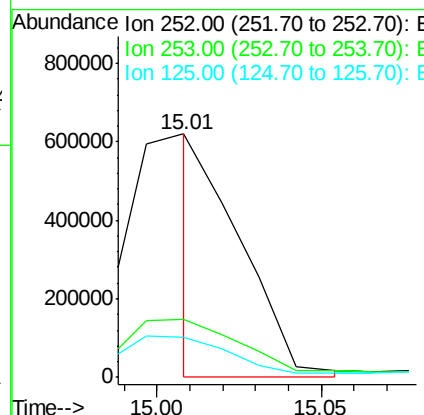
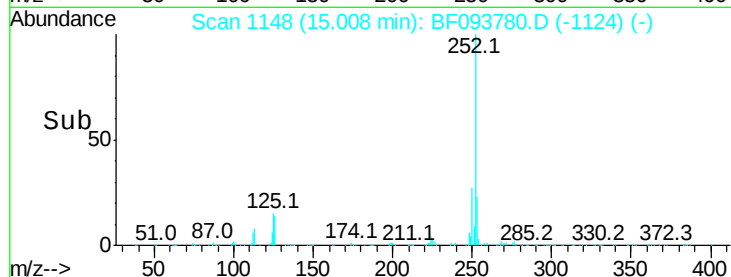
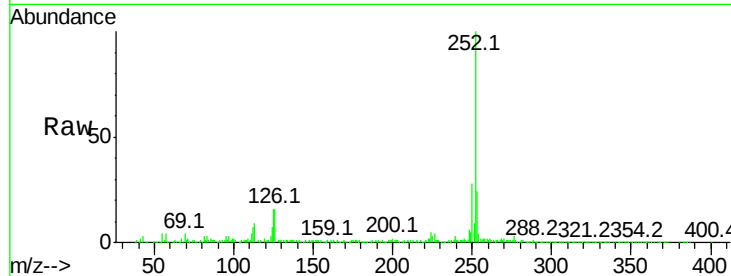
#88
Benzo(k)fluoranthene
Concen: 28.18 ng/ml
RT: 15.01 min Scan# 1148
Delta R.T. -0.02 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Instrument :
BNA_F
ClientSampleId :
HP-CT-00

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	16.4	13.1	19.7

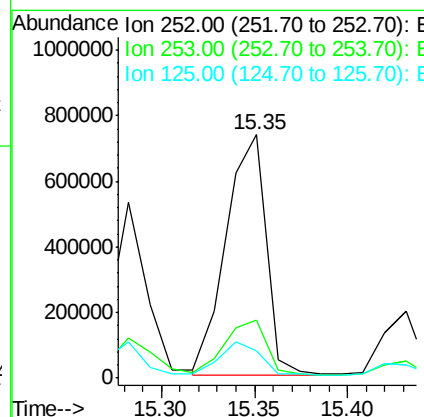
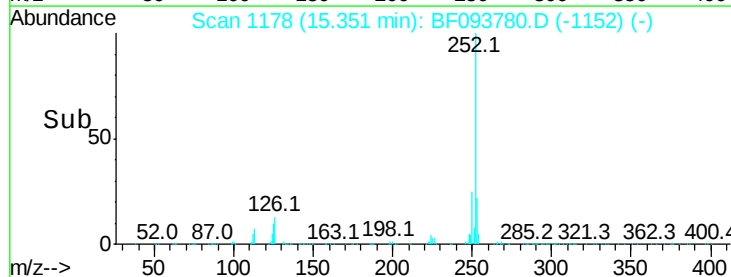
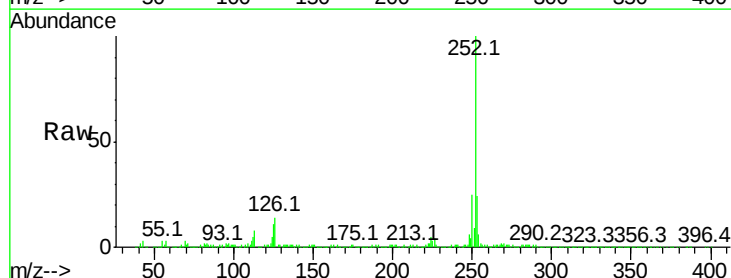
Manual Integrations
APPROVED

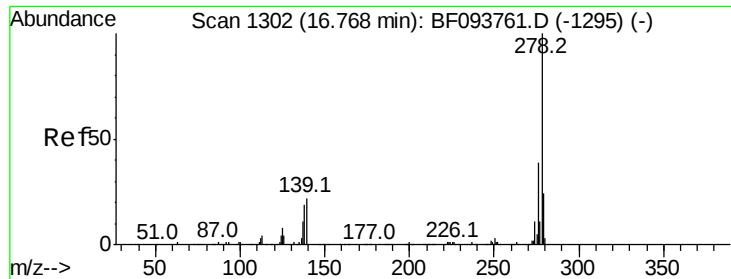
mohammad
3/21/2017 2:45:36 PM



#89
Benzo(a)pyrene
Concen: 55.62 ng/ml
RT: 15.35 min Scan# 1178
Delta R.T. 0.00 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	11.0	11.0	16.4





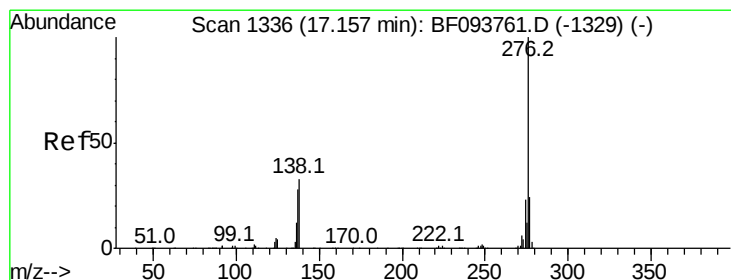
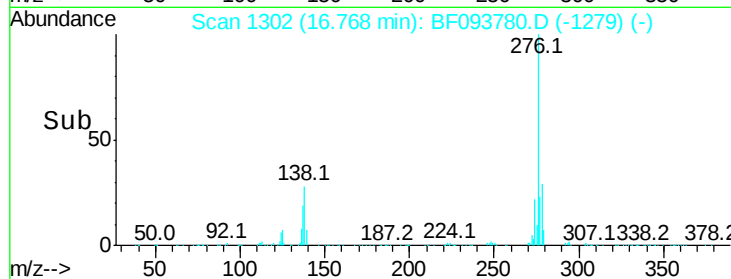
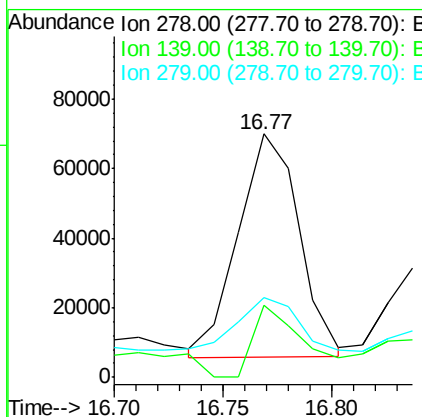
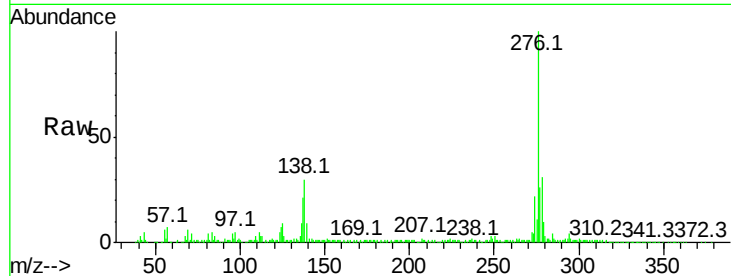
#90
Dibenzo(a,h)anthracene
Concen: 7.55 ng
RT: 16.77 min Scan# 1302
Delta R.T. -0.03 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Instrument :
BNA_F
ClientSampleId :
HP-CT-00

Tot Ion	Ratio	Lower	Upper
278	100		
139	29.8	16.6	24.8#
279	33.0	19.3	28.9#

Manual Integrations
APPROVED

mohammad
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#91
Benzo(g,h,i)perylene
Concen: 30.60 ng
RT: 17.18 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF093780.D
Acq: 20 Mar 2017 22:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.6	28.0
138	31.9	25.4	38.0

