

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031117\
 Data File : BF093597.D
 Acq On : 12 Mar 2017 8:05
 Operator : SJ/MA
 Sample : I2010-07
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB412A

Manual Integrations
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Quant Time: Mar 13 18:38:54 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	171228	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	596900	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	204547	20.00	ng	0.01
63) Phenanthrene-d10	11.26	188	325014	20.00	ng	0.01
75) Chrysene-d12	13.89	240	333271	20.00	ng	0.00
86) Perylene-d12	15.29	264	278259	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	1058840	102.92	ng	0.00
7) Phenol-d6	6.39	99	1428186	110.08	ng	0.01
23) Nitrobenzene-d5	7.30	82	767869	71.38	ng	0.00
41) 2,4,6-Tribromophenol	10.57	330	128608	96.50	ng	0.02
44) 2-Fluorobiphenyl	9.09	172	978147	88.95	ng	0.00
78) Terphenyl-d14	12.84	244	698940	54.53	ng	0.01

Target Compounds						Qvalue
10) Phenol	6.40	94	95427	6.00	ng	98
31) Naphthalene	8.04	128	237641	7.94	ng	# 82
37) 2-Methylnaphthalene	8.73	142	100630	5.29	ng	# 91
48) Acenaphthylene	9.64	152	69086	3.67	ng	# 20
49) Dimethylphthalate	9.49	163	94130	6.94	ng	# 55
51) Acenaphthene	9.81	154	117262	10.54	ng	# 87
57) Fluorene	10.32	166	220085	18.65	ng	# 88
70) Phenanthrene	11.28	178	395242	21.30	ng	# 91
71) Anthracene	11.34	178	149379	7.96	ng	# 85
74) Fluoranthene	12.47	202	792170	44.21	ng	97
77) Pyrene	12.70	202	889251	36.69	ng	100
80) Benzo(a)anthracene	13.88	228	393966	20.02	ng	97
82) Chrysene	13.91	228	290387	15.95	ng	96
83) Bis(2-ethylhexyl)phthalate	13.85	149	51237	3.60	ng	# 93
85) Indeno(1,2,3-cd)pyrene	16.65	276	199754	13.11	ng	97
87) Benzo(b)fluoranthene	14.91	252	412020m	24.31	ng	
88) Benzo(k)fluoranthene	14.92	252	148905m	9.11	ng	
89) Benzo(a)pyrene	15.25	252	280043	18.08	ng	# 89
90) Dibenzo(a,h)anthracene	16.65	278	41274	3.22	ng	# 58
91) Benzo(g,h,i)perylene	17.07	276	193968	14.75	ng	# 86

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

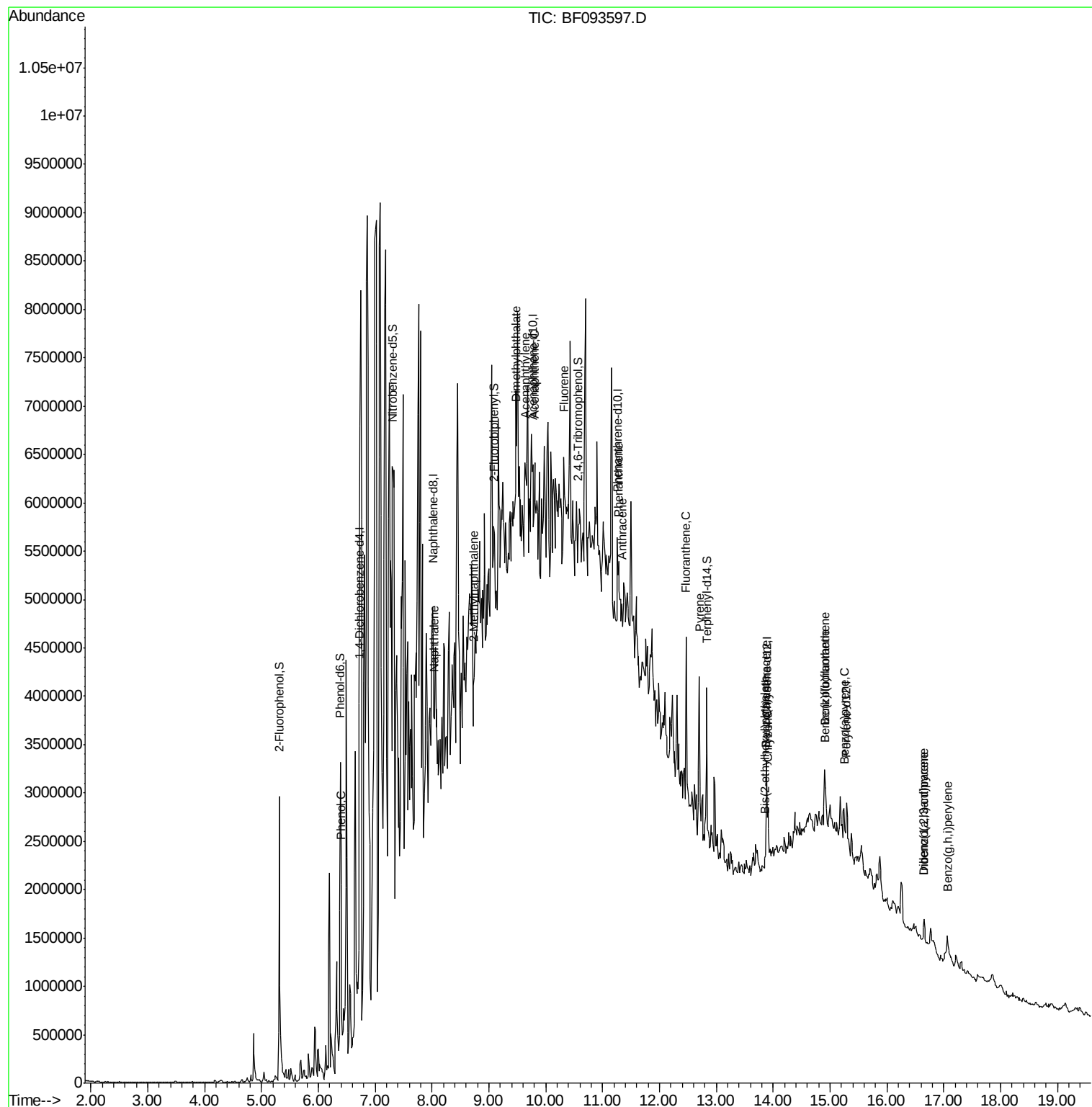
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031117\
Data File : BF093597.D
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Sample : I2010-07
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ALS Vial : 32 Sample Multiplier: 1

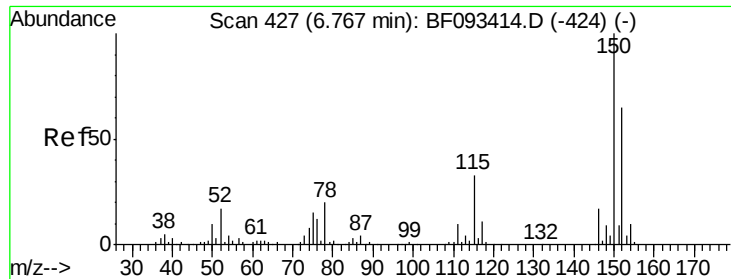
Instrument :
BNA_F
ClientSampleId :
HY-SB412A

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QLast Update : Mon Mar 13 15:05:08 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.72 min Scan# 423

Delta R.T. 0.00 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

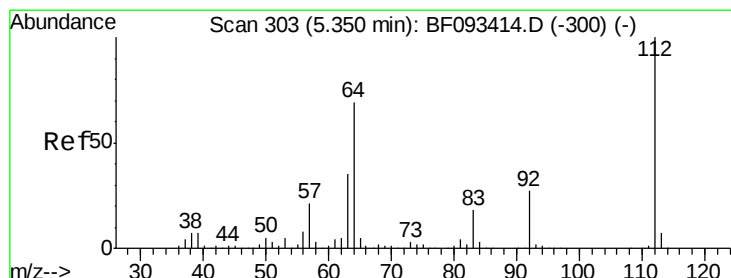
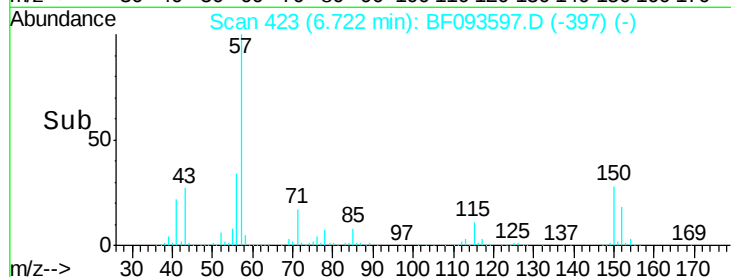
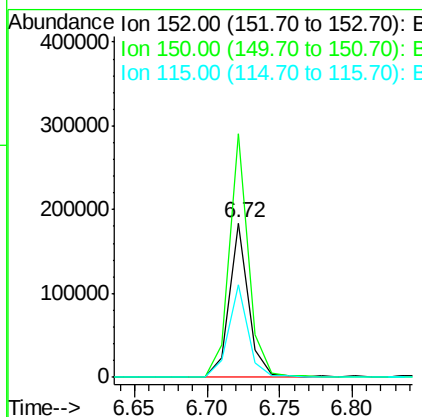
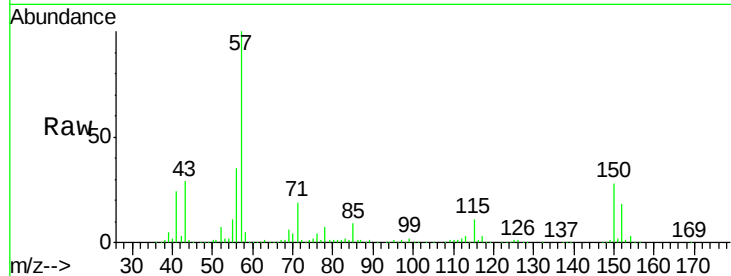
ClientSampleId :

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Tgt Ion:	152	Resp:	171228
Ion Ratio	Lower	Upper	
152	100		
150	157.7	124.9	187.3
115	60.1	46.0	69.0

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#5

2-Fluorophenol

Concen: 102.92 ng

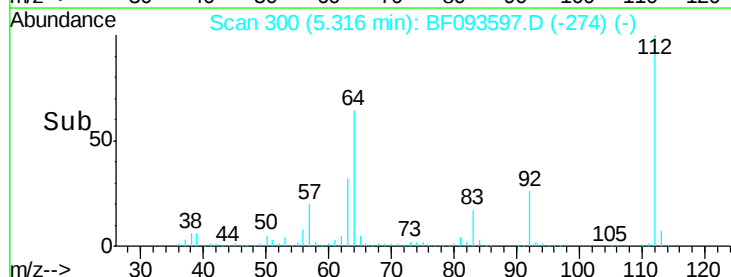
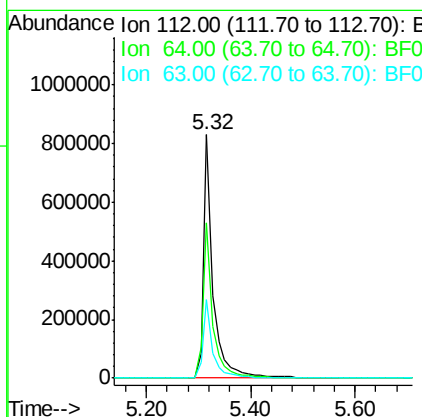
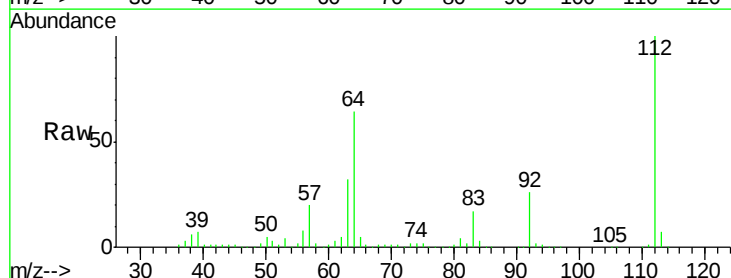
RT: 5.32 min Scan# 300

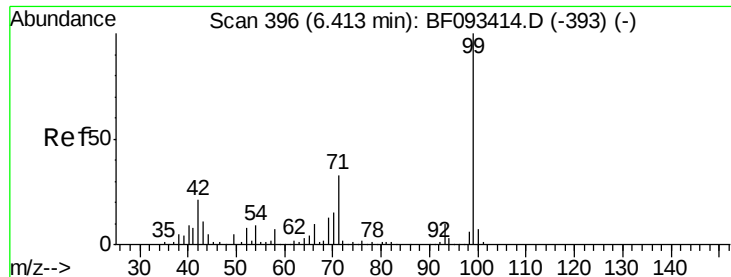
Delta R.T. 0.00 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Tgt Ion:	112	Resp:	1058840
Ion Ratio	Lower	Upper	
112	100		
64	63.7	46.1	69.1
63	32.0	23.8	35.6





#7

Phenol-d6

Concen: 110.08 ng

RT: 6.39 min Scan# 394

Delta R.T. 0.01 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

ClientSampleId :

HY-SB412A

Tgt Ion: 99 Resp: 1428186

Ion Ratio Lower Upper

99 100

42 19.1 15.6 23.4

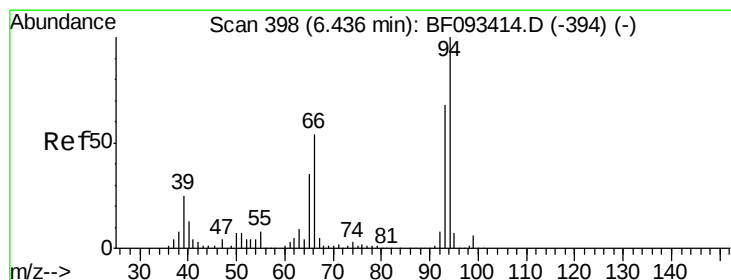
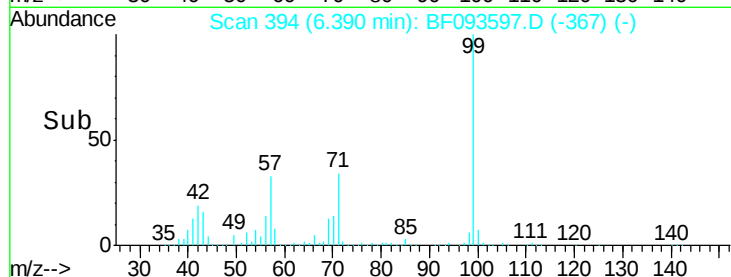
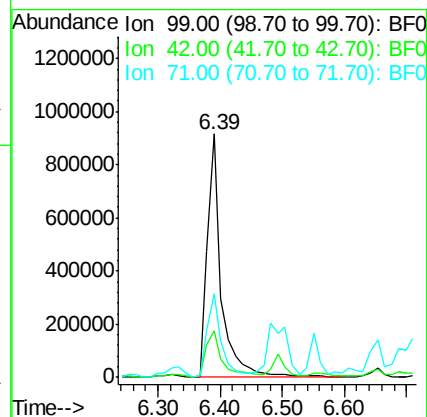
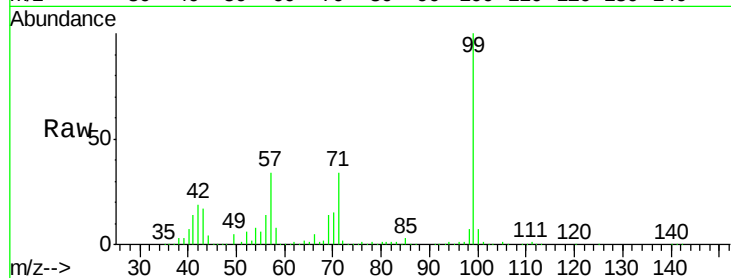
71 34.4 27.5 41.3

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#10

Phenol

Concen: 6.00 ng

RT: 6.40 min Scan# 395

Delta R.T. 0.00 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

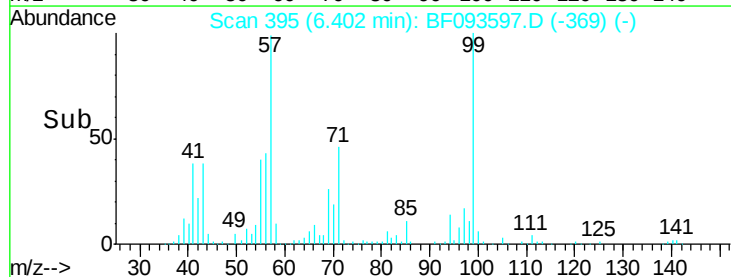
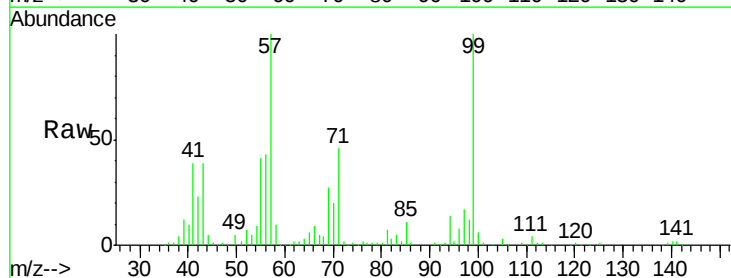
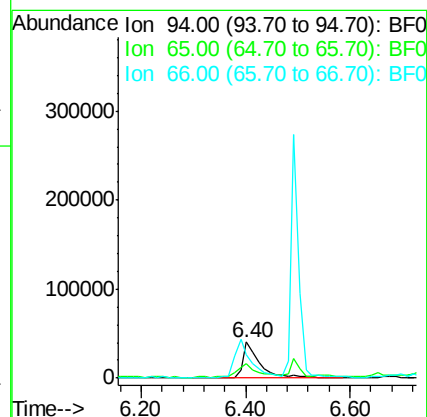
Tgt Ion: 94 Resp: 95427

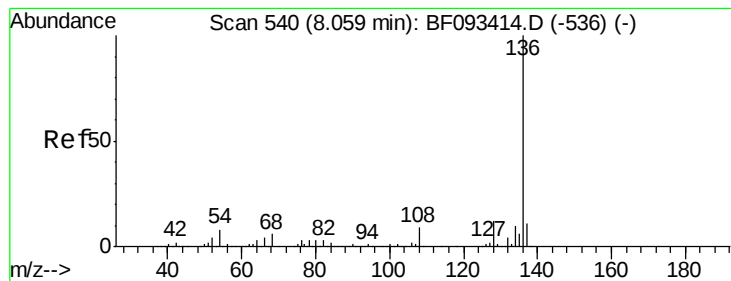
Ion Ratio Lower Upper

94 100

65 41.8 21.4 61.4

66 66.5 44.0 84.0





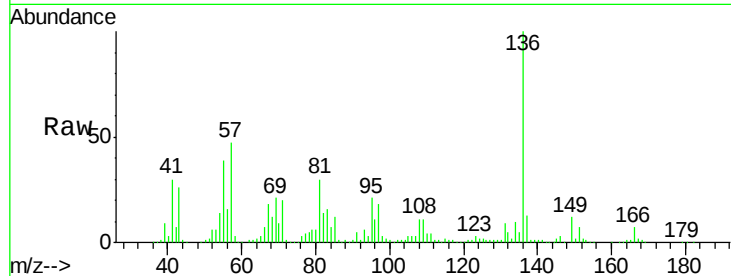
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.01 min Scan# 536
Delta R.T. 0.00 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Instrument :
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ClientSampleId :
HY-SB412A

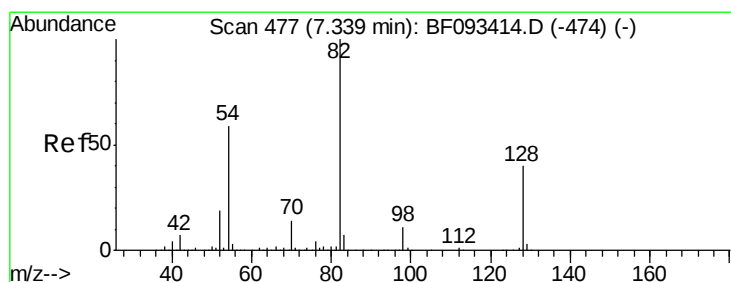
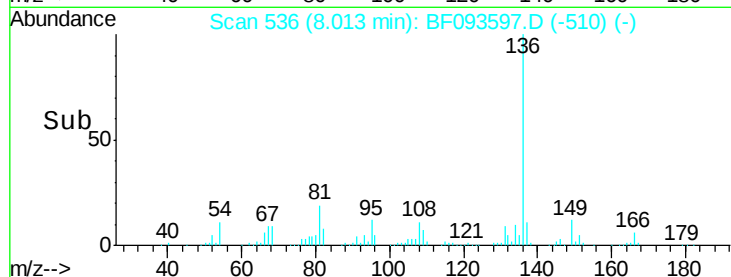
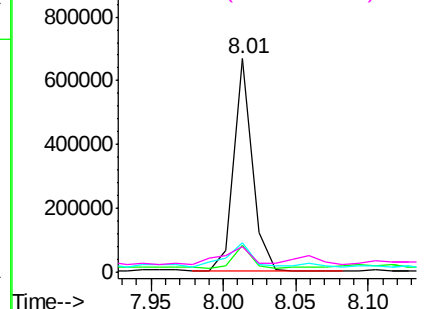
Tgt Ion	Ratio	Resp	Lower	Upper
136	100	596900		
137	12.9	8.4	12.6#	
54	13.7	4.5	6.7#	
68	11.8	3.6	5.4#	

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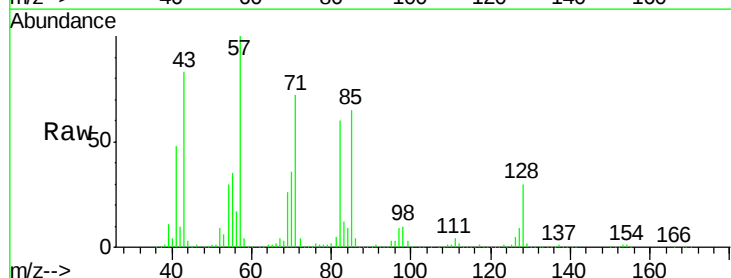


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

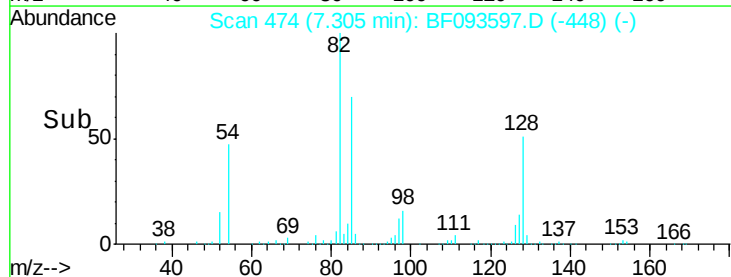
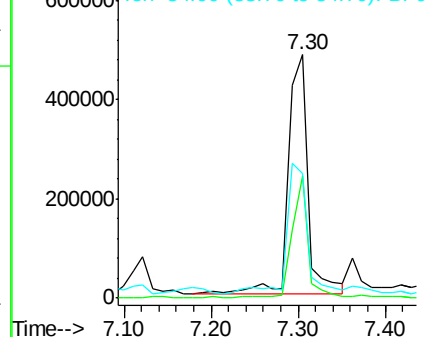


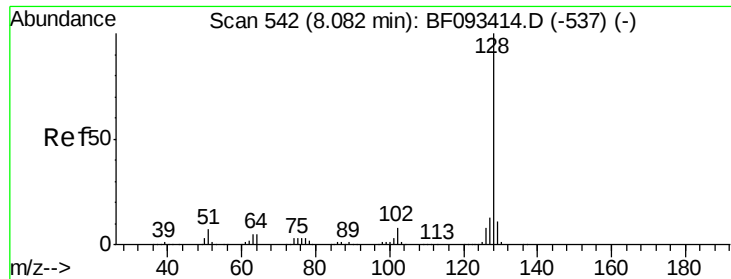
#23
Nitrobenzene-d5
Concen: 71.38 ng
RT: 7.30 min Scan# 474
Delta R.T. 0.00 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	767869		
128	50.3	34.6	52.0	
54	51.0	39.5	59.3	



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





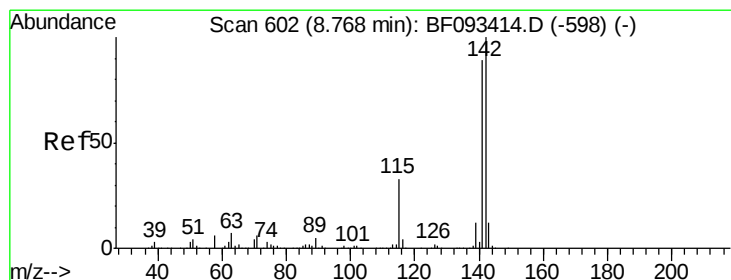
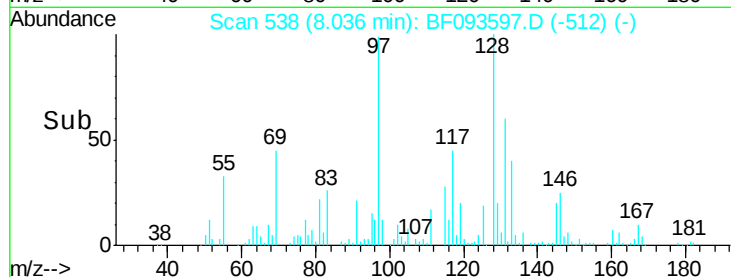
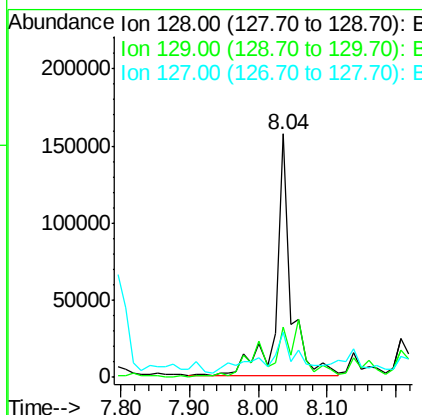
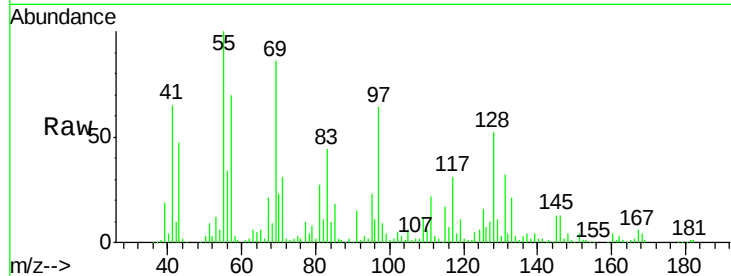
#31
Naphthalene
Concen: 7.94 ng
RT: 8.04 min Scan# 538
Delta R.T. 0.00 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

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ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	20.9	9.5	14.3#
127	18.6	10.8	16.2#

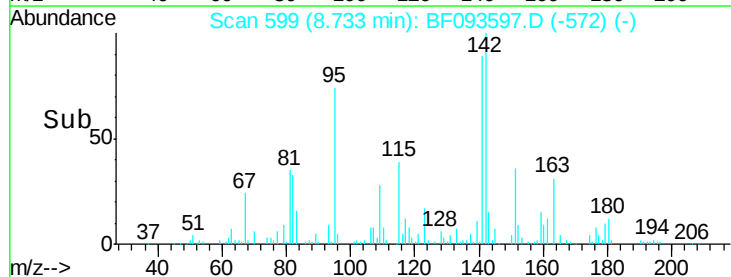
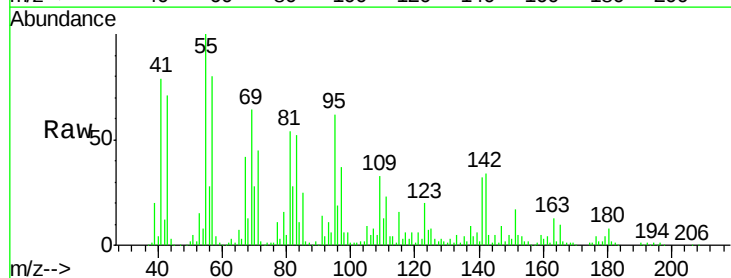
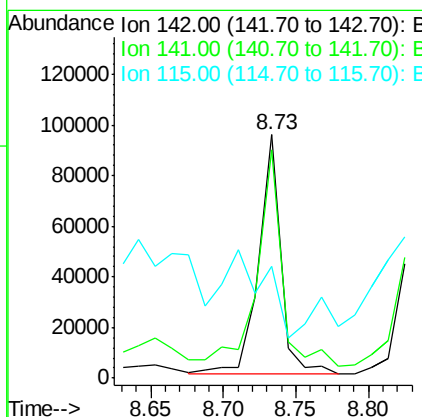
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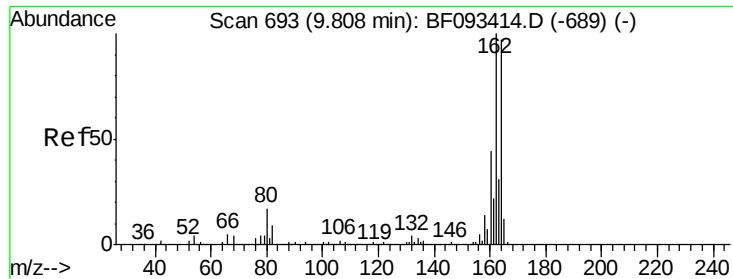
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#37
2-Methylnaphthalene
Concen: 5.29 ng
RT: 8.73 min Scan# 599
Delta R.T. 0.01 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
142	100		
141	94.0	71.0	106.6
115	45.7	28.3	42.5#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 690

Delta R.T. 0.01 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

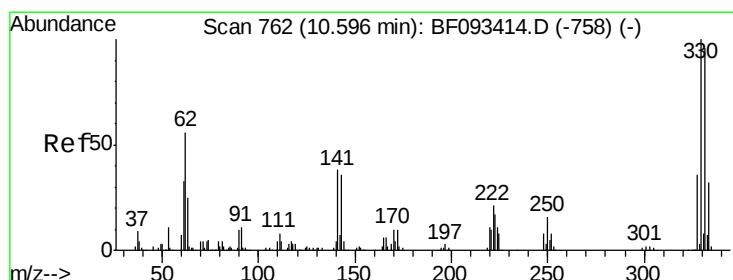
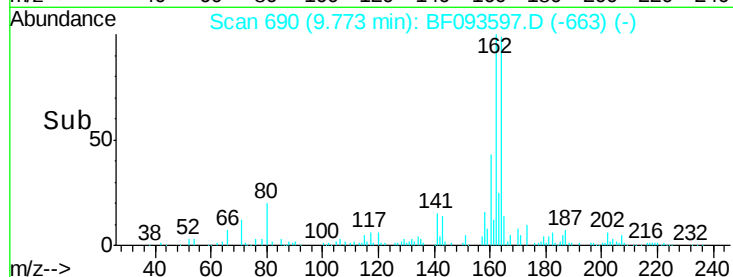
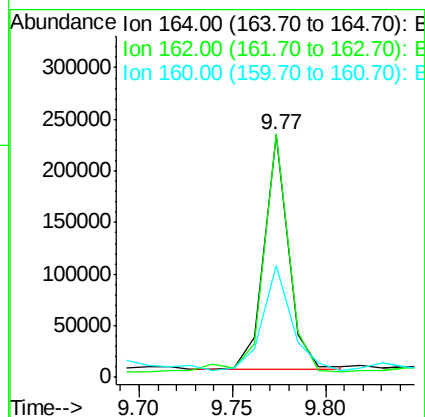
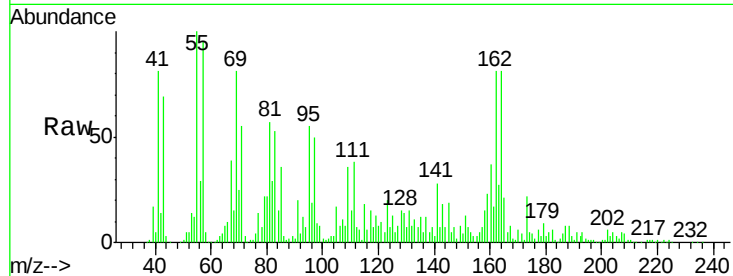
ClientSampleId :

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Tgt Ion:	164	Resp:	204547
Ion Ratio	Lower	Upper	
164	100		
162	100.2	80.2	120.2
160	46.3	36.9	55.3

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#41

2,4,6-Tribromophenol

Concen: 96.50 ng

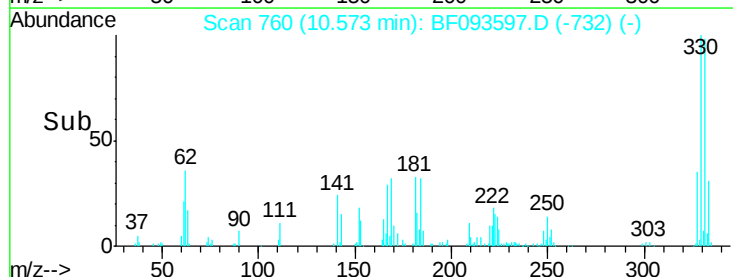
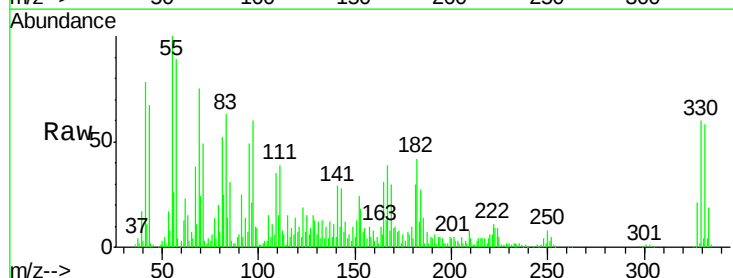
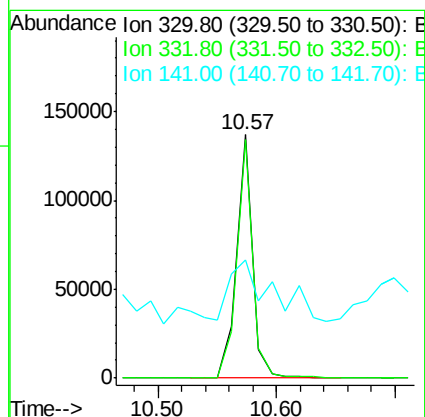
RT: 10.57 min Scan# 760

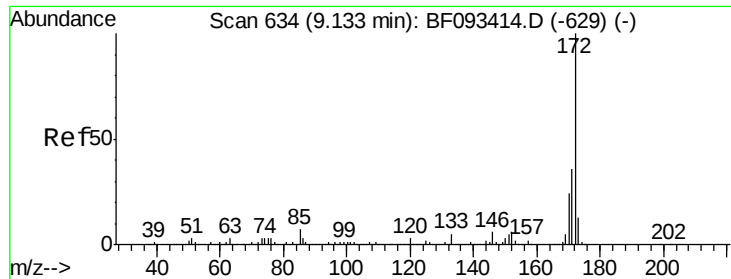
Delta R.T. 0.02 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Tgt Ion:	330	Resp:	128608
Ion Ratio	Lower	Upper	
330	100		
332	97.5	77.4	116.2
141	65.2	34.1	51.1#





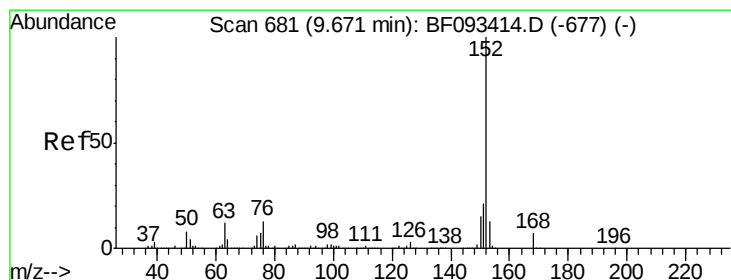
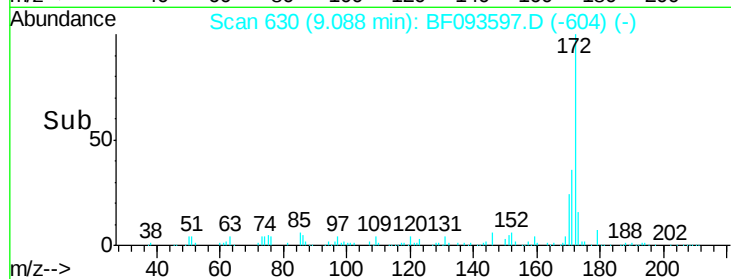
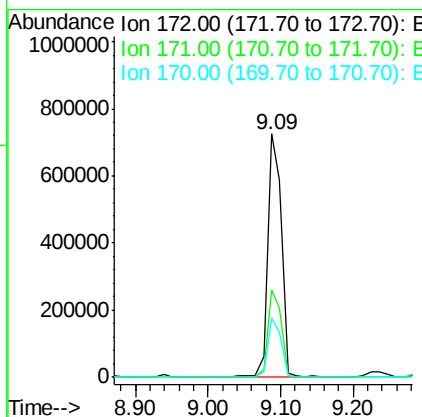
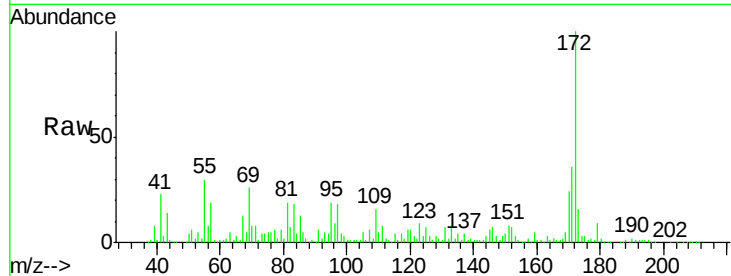
#44
 2-Fluorobiphenyl
 Concen: 88.95 ng
 RT: 9.09 min Scan# 630
 Delta R.T. 0.00 min
 Lab File: BF093597.D
 Acq: 12 Mar 2017 8:05

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB412A

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	36.1	29.4	44.0
170	24.2	20.2	30.4

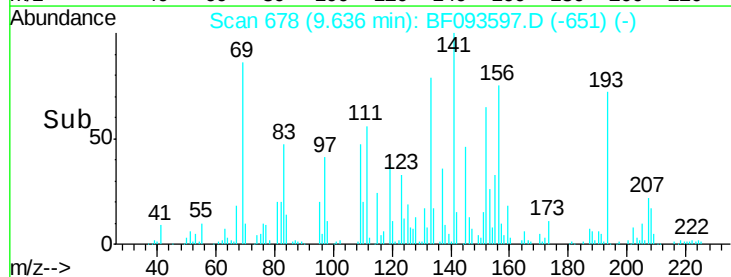
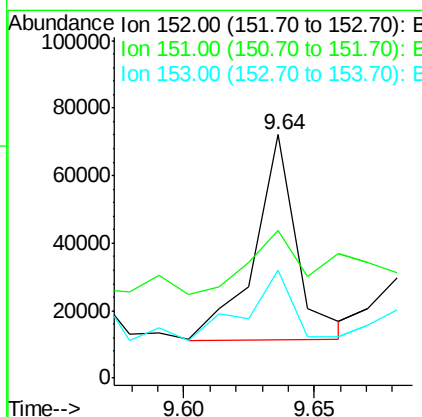
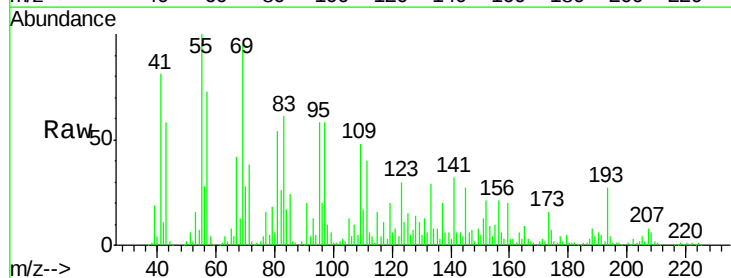
Manual Integrations
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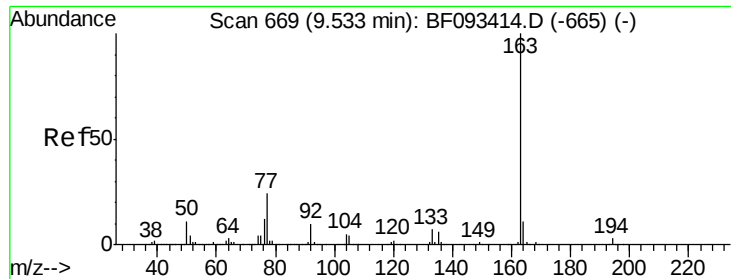
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#48
 Acenaphthylene
 Concen: 3.67 ng
 RT: 9.64 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: BF093597.D
 Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
152	100		
151	60.6	16.9	25.3#
153	44.2	11.4	17.2#





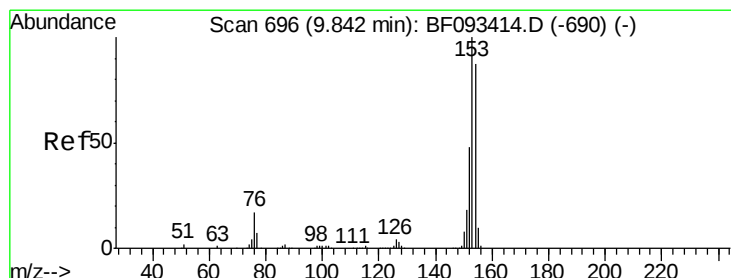
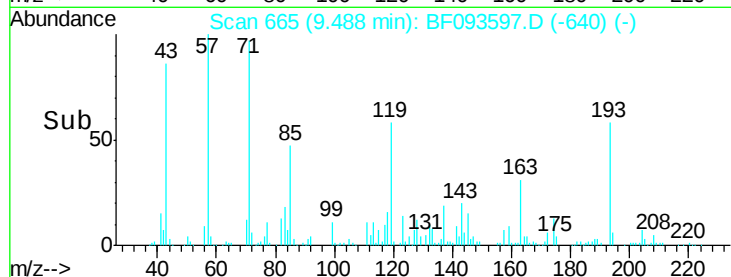
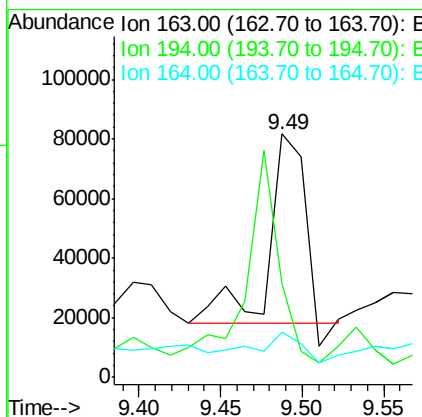
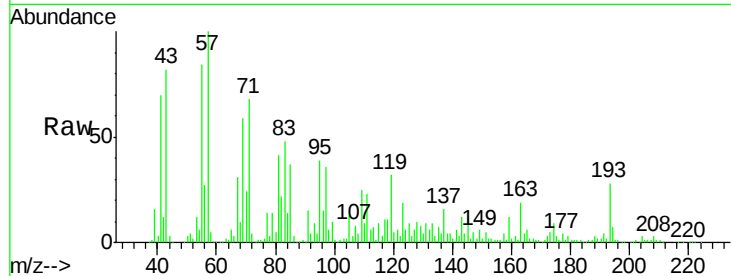
#49
Dimethylphthalate
Concen: 6.94 ng
RT: 9.49 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Instrument :
BNA_F
ClientSampleId :
HY-SB412A

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	38.3	3.0	4.4#
164	18.7	8.0	12.0#

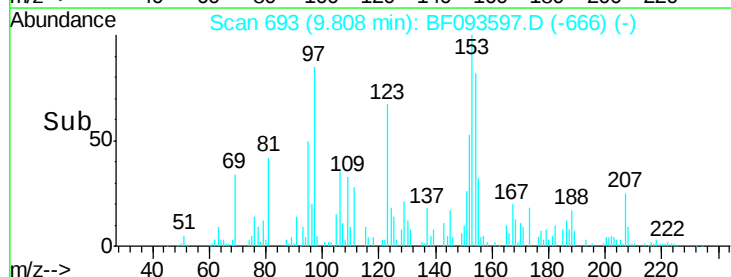
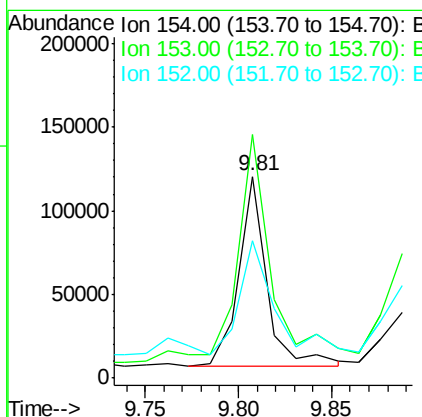
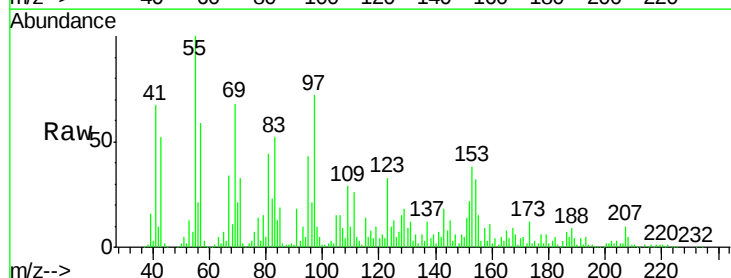
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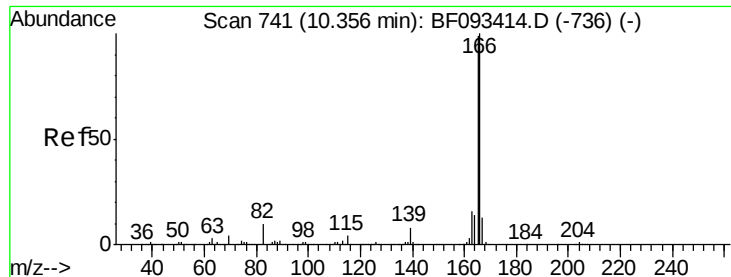
mohammad
3/15/2017 5:35:15 PM



#51
Acenaphthene
Concen: 10.54 ng
RT: 9.81 min Scan# 693
Delta R.T. 0.01 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	120.5	88.6	133.0
152	67.8	41.6	62.4#





#57

Fluorene

Concen: 18.65 ng

RT: 10.32 min Scan# 738

Delta R.T. 0.01 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

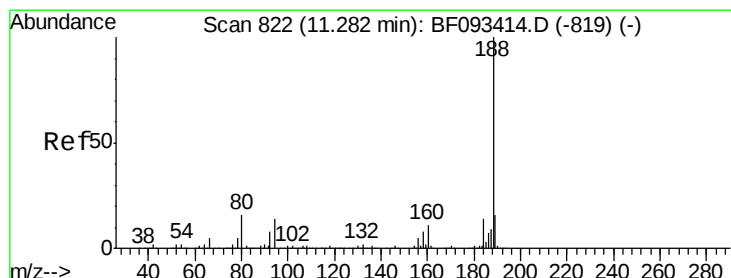
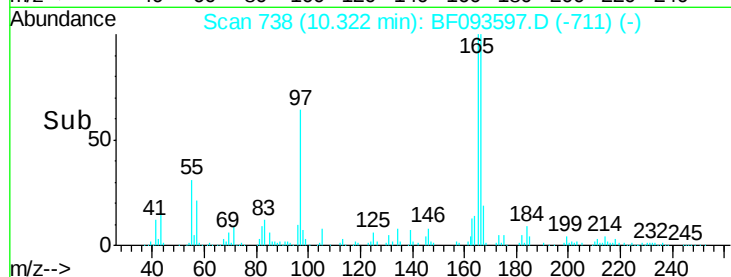
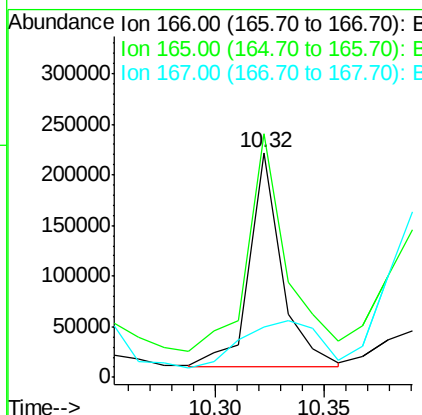
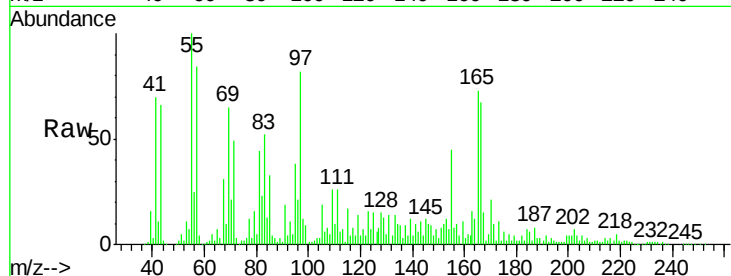
ClientSampleId :

HY-SB412A

Tgt Ion:	166	Resp:	220085
Ion Ratio	Lower	Upper	
166	100		
165	108.4	77.8	116.8
167	22.1	10.8	16.2#

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#63

Phenanthrene-d10

Concen: 20.00 ng

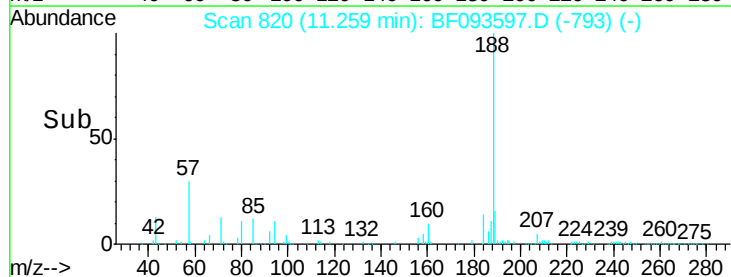
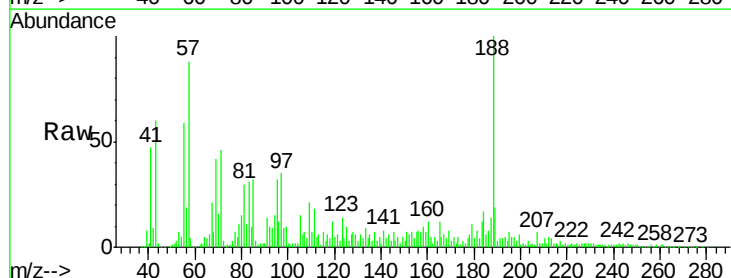
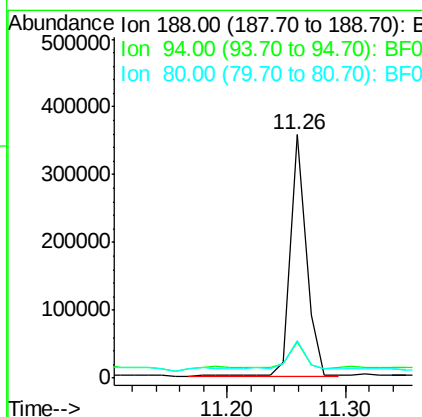
RT: 11.26 min Scan# 820

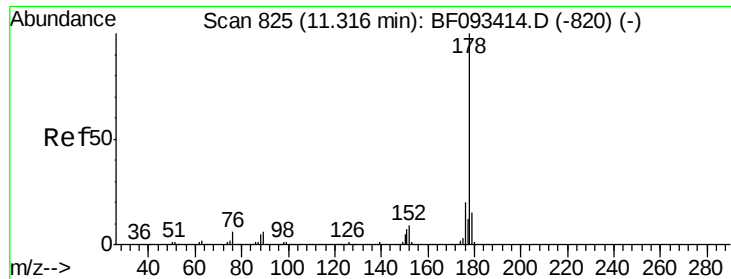
Delta R.T. 0.01 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Tgt Ion:	188	Resp:	325014
Ion Ratio	Lower	Upper	
188	100		
94	14.9	10.0	15.0
80	15.3	11.2	16.8





#70

Phenanthrene

Concen: 21.30 ng

RT: 11.28 min Scan# 822

Delta R.T. 0.01 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

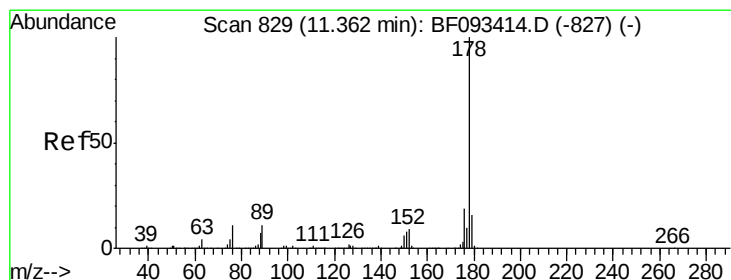
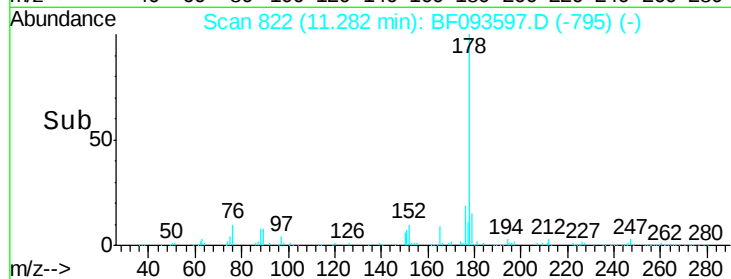
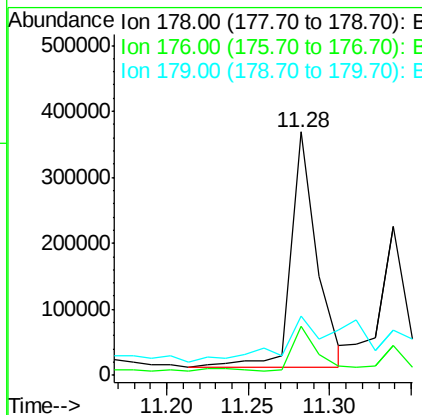
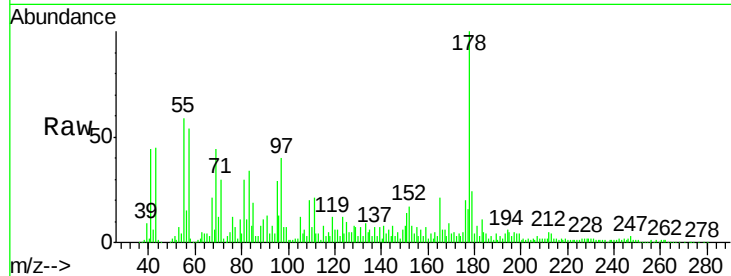
ClientSampleId :

HY-SB412A

Tgt Ion:	178	Resp:	395242
Ion Ratio		Lower	Upper
178	100		
176	20.1	16.6	25.0
179	24.2	12.8	19.2#

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#71

Anthracene

Concen: 7.96 ng

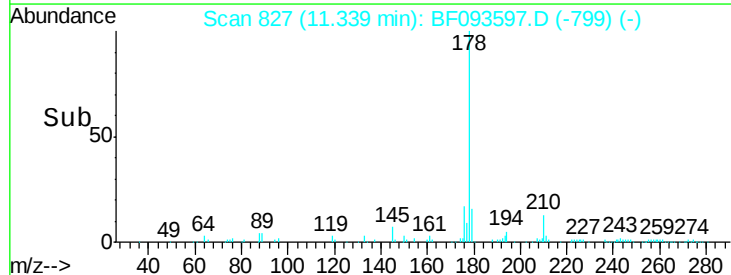
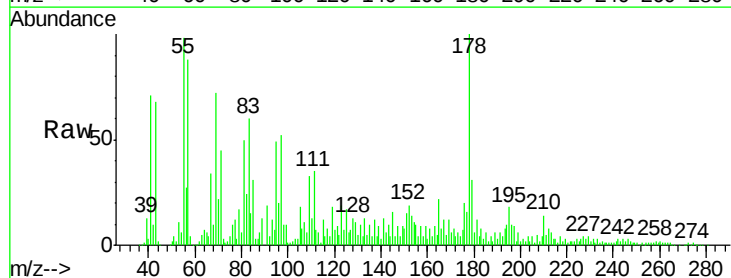
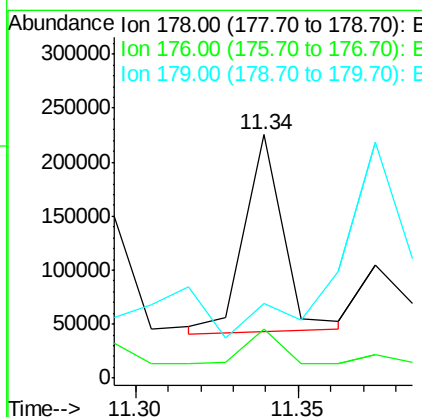
RT: 11.34 min Scan# 827

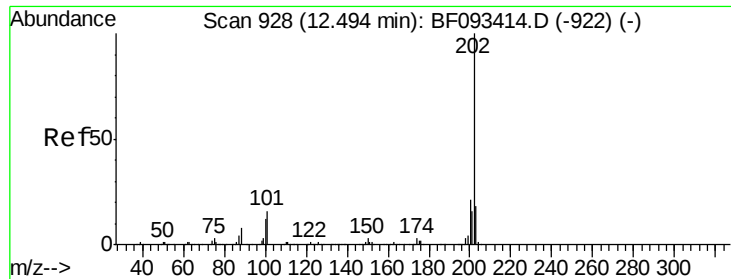
Delta R.T. 0.02 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Tgt Ion:	178	Resp:	149379
Ion Ratio		Lower	Upper
178	100		
176	20.2	15.9	23.9
179	30.7	13.2	19.8#





#74

Fluoranthene

Concen: 44.21 ng

RT: 12.47 min Scan# 926

Delta R.T. 0.01 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

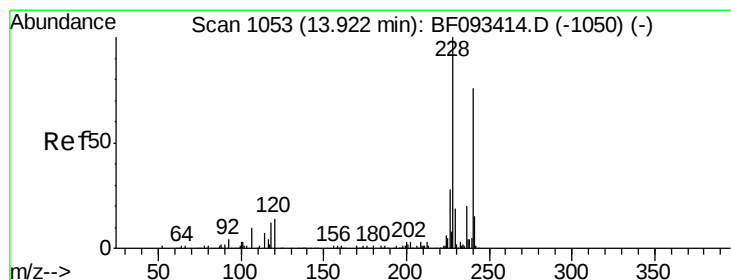
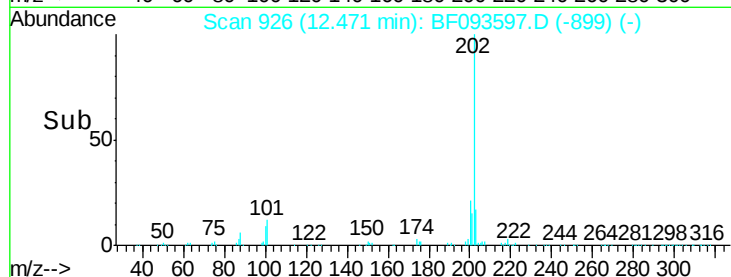
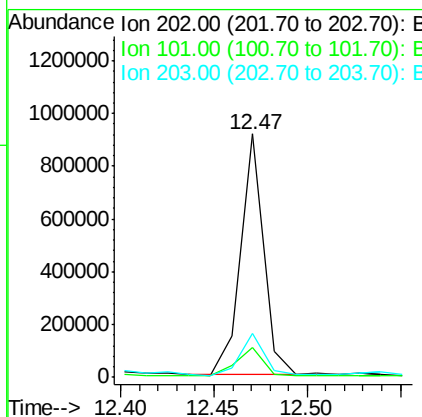
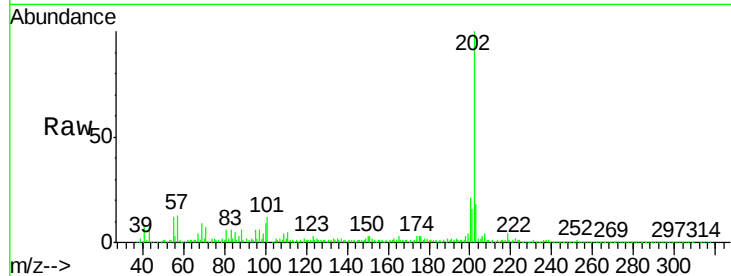
ClientSampleId :

HY-SB412A

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		792170		
101	12.4	0.0	34.6		
203	18.3	0.0	38.7		

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#75

Chrysene-d12

Concen: 20.00 ng

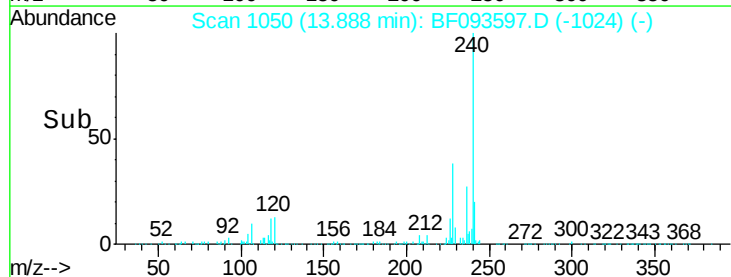
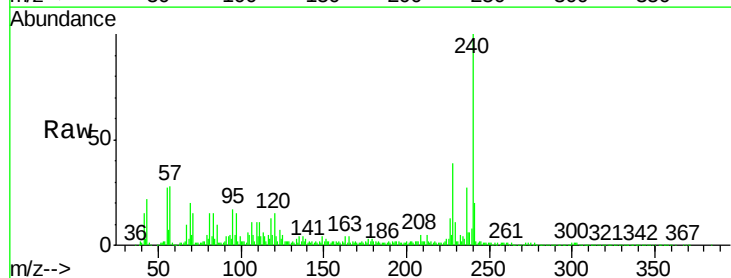
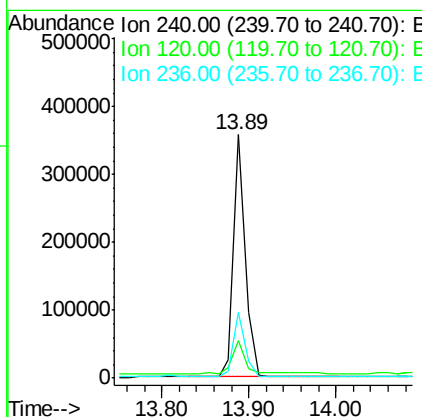
RT: 13.89 min Scan# 1050

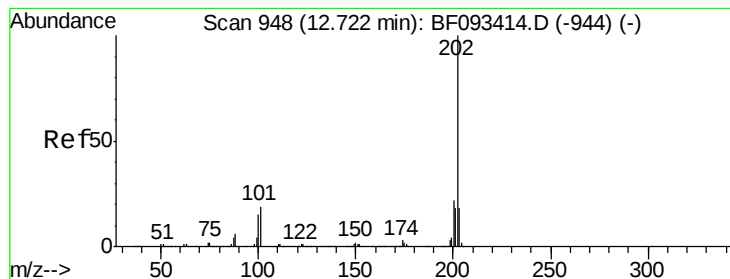
Delta R.T. 0.00 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		333271		
120	15.3	12.9	19.3		
236	27.2	20.9	31.3		





#77

Pyrene

Concen: 36.69 ng

RT: 12.70 min Scan# 946

Delta R.T. 0.02 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

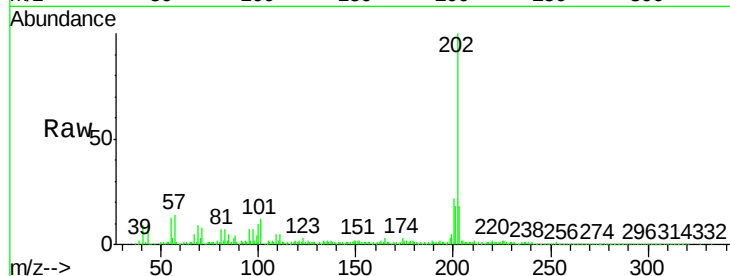
ClientSampleId :

HY-SB412A

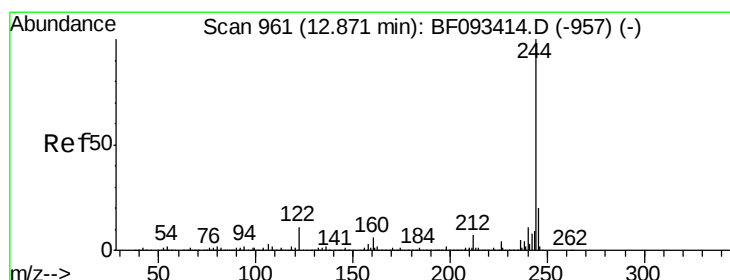
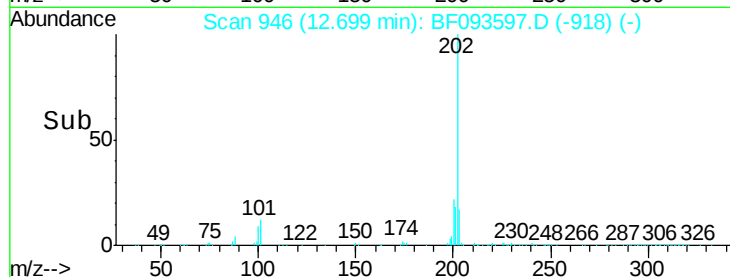
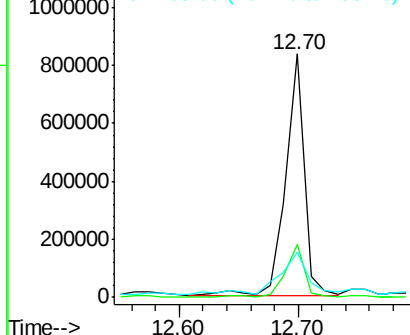
Tgt Ion:	202	Resp:	889251
Ion Ratio	Lower	Upper	
202	100		
200	21.7	17.7	26.5
203	18.4	14.7	22.1

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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: 54.53 ng

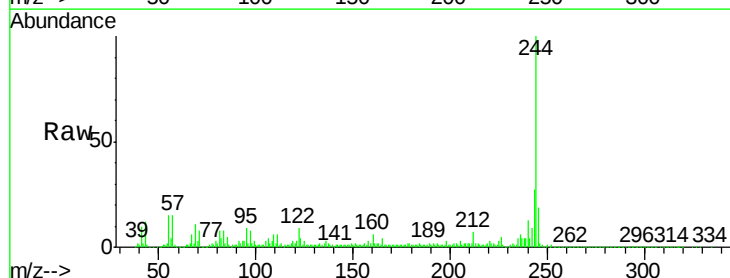
RT: 12.84 min Scan# 958

Delta R.T. 0.01 min

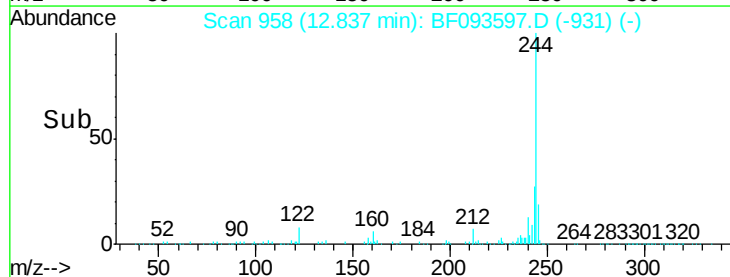
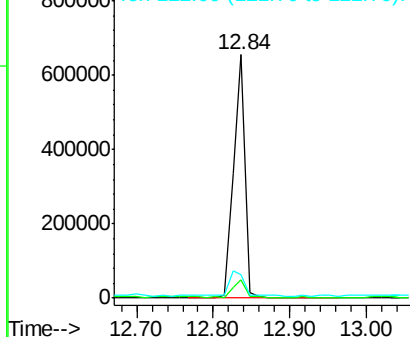
Lab File: BF093597.D

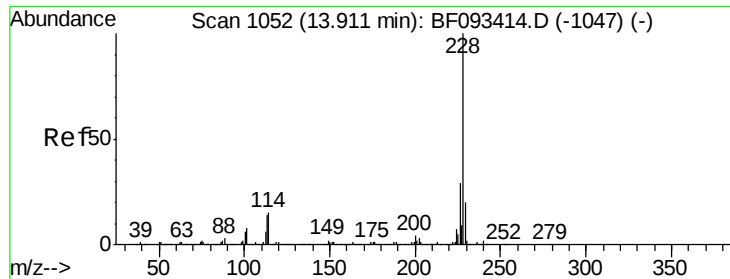
Acq: 12 Mar 2017 8:05

Tgt Ion:	244	Resp:	698940
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.2	9.2
122	9.4	11.4	17.2#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 20.02 ng

RT: 13.88 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Instrument :

BNA_F

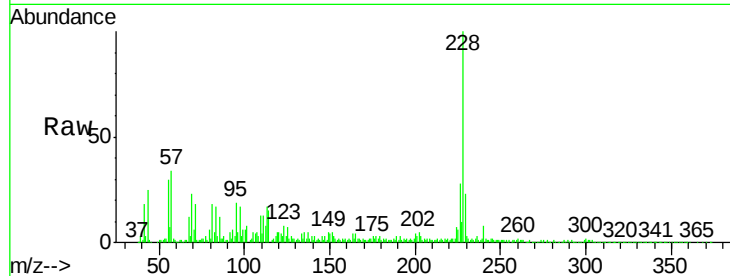
ClientSampleId :

HY-SB412A

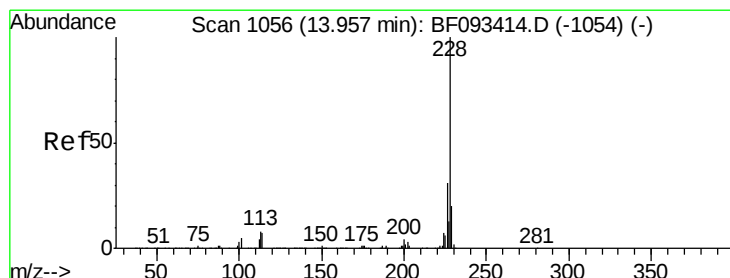
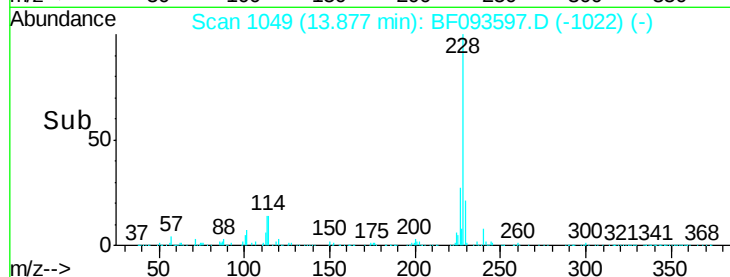
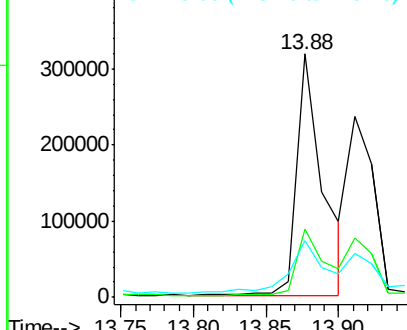
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.4	33.6
229	23.2	16.2	24.4

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 15.95 ng

RT: 13.91 min Scan# 1052

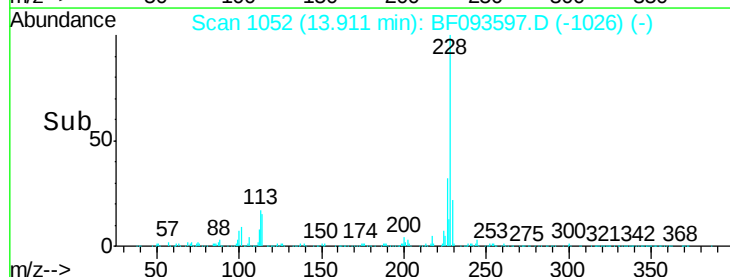
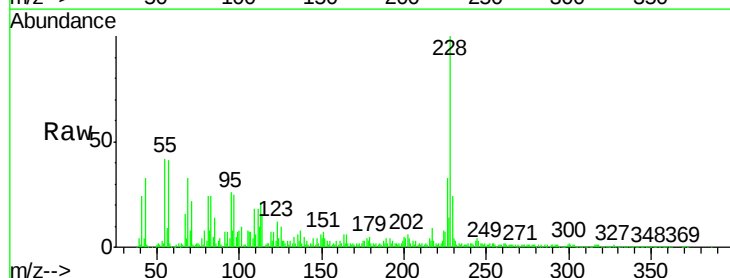
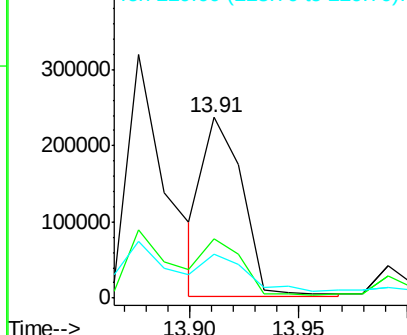
Delta R.T. 0.00 min

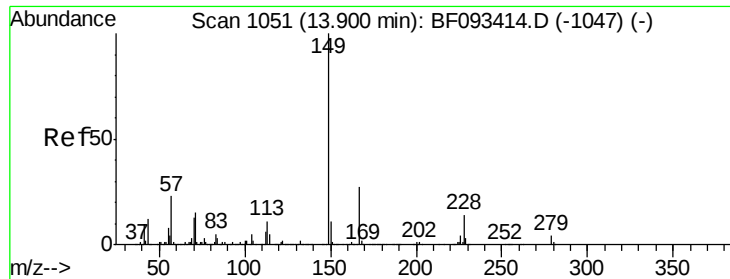
Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.6	25.4	38.0
229	24.2	16.2	24.2

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





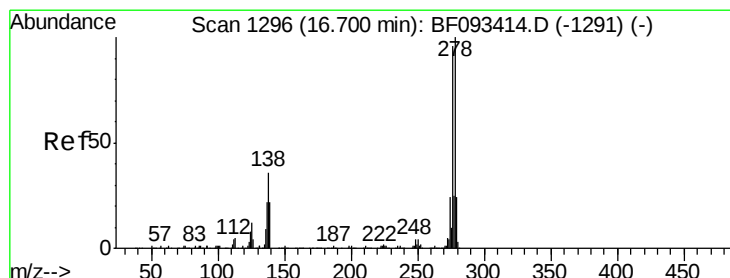
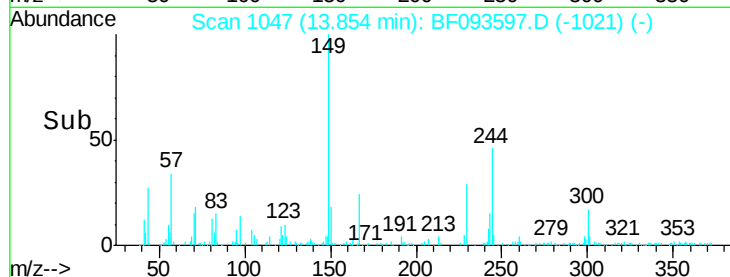
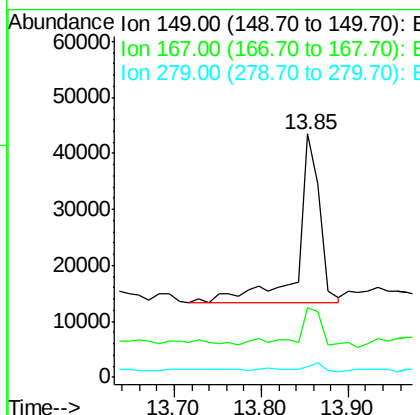
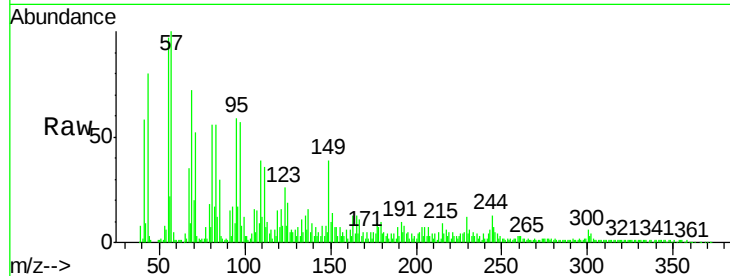
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.60 ng
 RT: 13.85 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: BF093597.D
 Acq: 12 Mar 2017 8:05

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB412A

Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.8	20.2	30.4
279	4.4	1.8	2.8

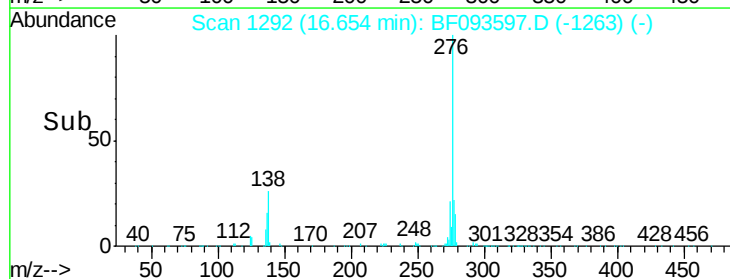
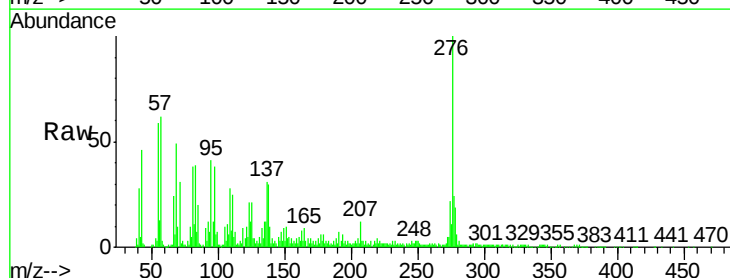
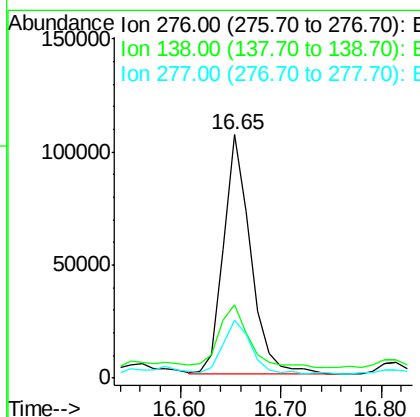
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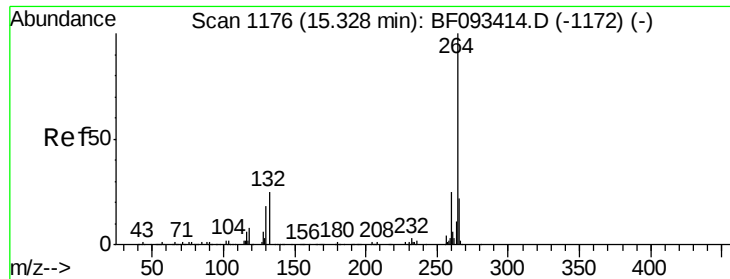
mohammad
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.11 ng
 RT: 16.65 min Scan# 1292
 Delta R.T. 0.03 min
 Lab File: BF093597.D
 Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.2	21.8	32.6
277	23.3	20.2	30.4





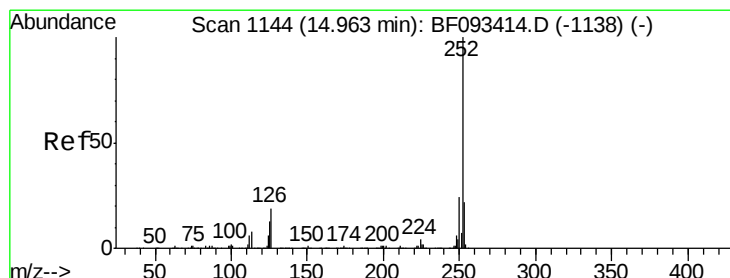
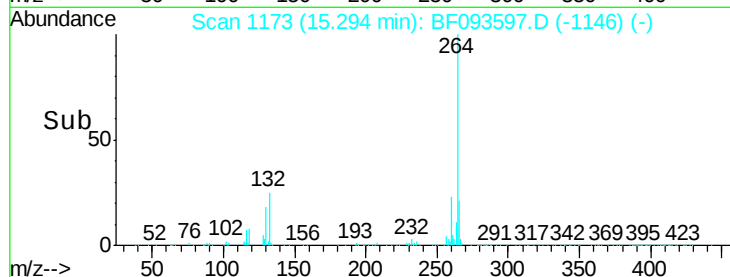
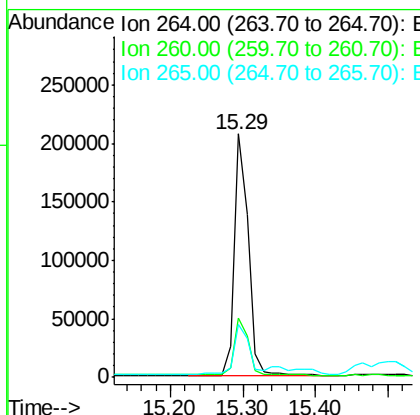
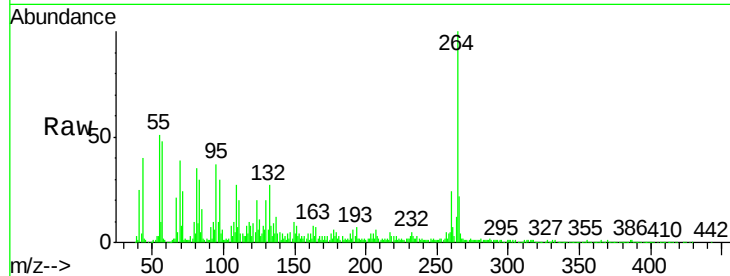
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1173
Delta R.T. 0.01 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Instrument :
BNA_F
ClientSampleId :
HY-SB412A

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	278259		
260	24.5	19.2	28.8	
265	21.8	17.4	26.0	

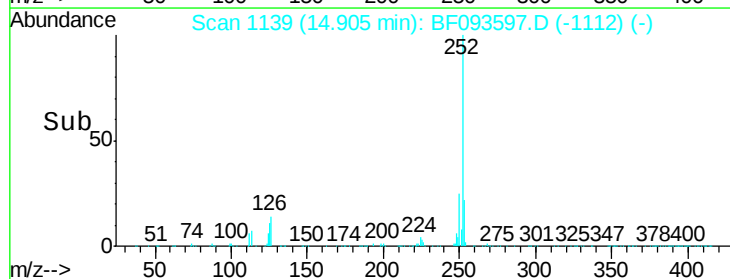
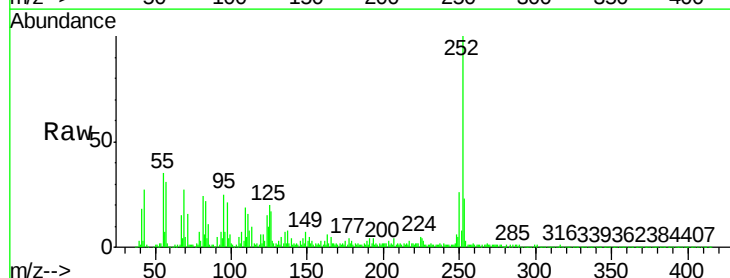
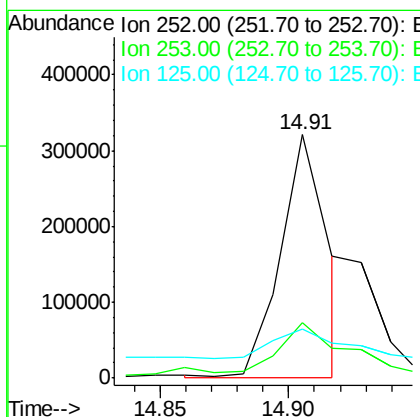
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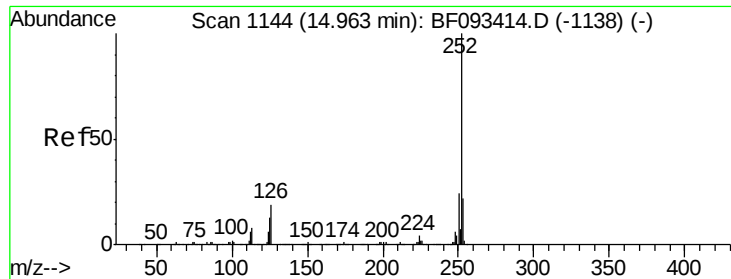
mohammad
3/15/2017 5:35:15 PM



#87
Benzo(b)fluoranthene
Concen: 24.31 ng m
RT: 14.91 min Scan# 1139
Delta R.T. 0.01 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	412020		
253	22.9	18.2	27.4	
125	20.2	9.8	14.6	





#88

Benzo(k)fluoranthene

Concen: 9.11 ng m

RT: 14.92 min Scan# 1140

Delta R.T. 0.00 min

Lab File: BF093597.D

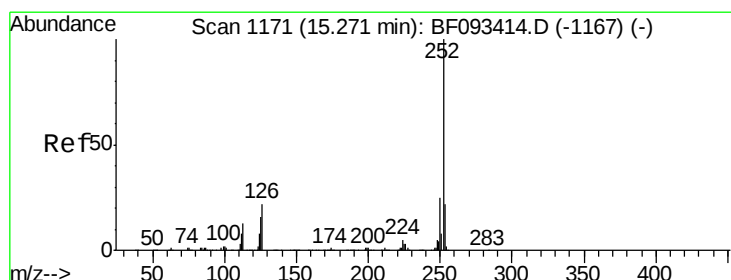
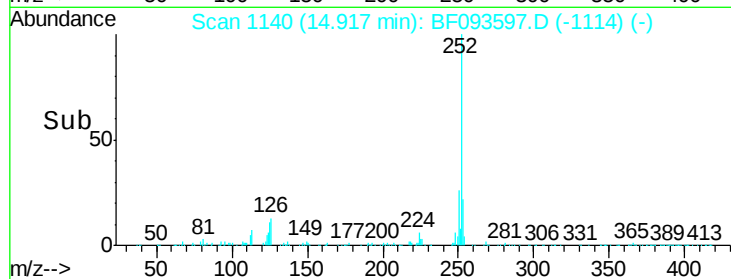
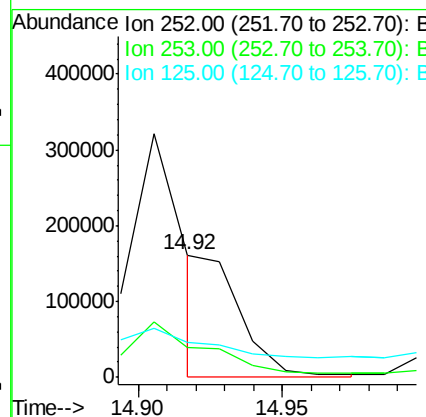
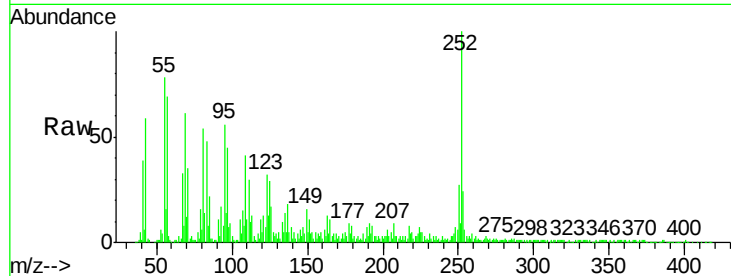
Acq: 12 Mar 2017 8:05

Instrument :
BNA_F
ClientSampleId :
HY-SB412A

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.5	27.7
125	29.0	8.9	13.3

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 18.08 ng

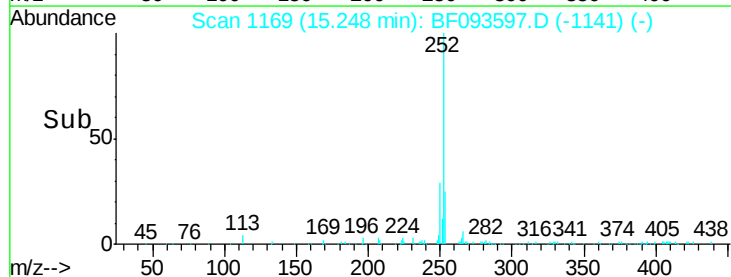
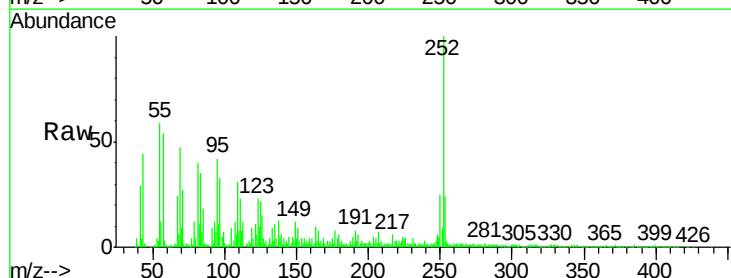
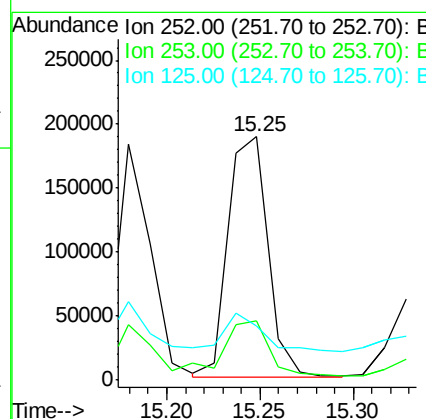
RT: 15.25 min Scan# 1169

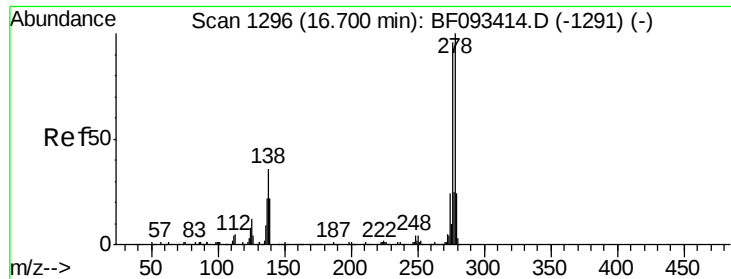
Delta R.T. 0.02 min

Lab File: BF093597.D

Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.2	27.2
125	22.1	10.0	15.0





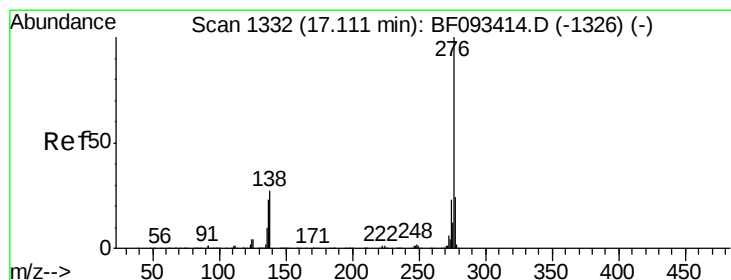
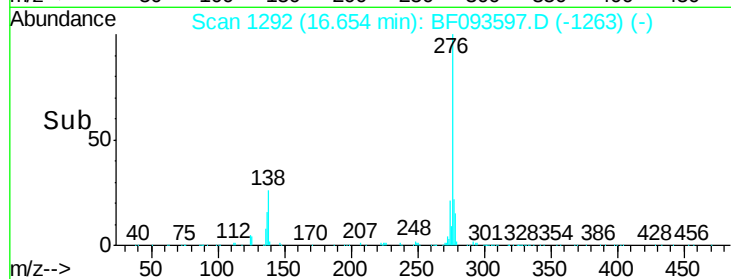
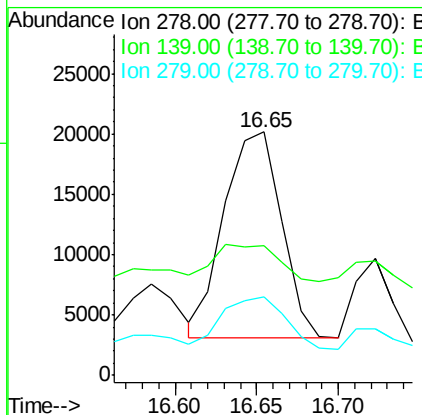
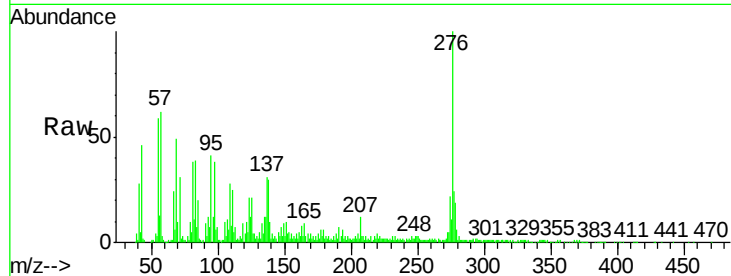
#90
Dibenzo(a,h)anthracene
Concen: 3.22 ng
RT: 16.65 min Scan# 1292
Delta R.T. 0.03 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Instrument :
BNA_F
ClientSampled :
HY-SB412A

Tgt Ion	Ratio	Lower	Upper
278	100		
139	53.2	14.8	22.2#
279	32.0	19.8	29.6#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 14.75 ng
RT: 17.07 min Scan# 1328
Delta R.T. 0.05 min
Lab File: BF093597.D
Acq: 12 Mar 2017 8:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.2	28.8
138	32.5	16.0	24.0#

