

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
 Data File : BF093169.D
 Acq On : 25 Feb 2017 2:47
 Operator : SJ/MA
 Sample : I1955-07
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Manual Integrations
 APPROVED

mohammad
 2/27/2017 1:08:03 PM

Quant Time: Feb 27 10:17:24 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	165398	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	597031	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	280319	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	393874	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	304255	20.00	ng	-0.01
86) Perylene-d12	15.45	264	290588	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	1199025	124.37	ng	-0.01
7) Phenol-d6	6.48	99	1519639	122.51	ng	-0.01
23) Nitrobenzene-d5	7.40	82	865169	80.70	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	215825	106.45	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	1320325	85.33	ng	-0.01
78) Terphenyl-d14	12.96	244	723922	55.91	ng	-0.01

Target Compounds						Qvalue
9) Benzaldehyde	6.37	77	30427	3.42	ng	84
10) Phenol	6.50	94	60355	4.16	ng	# 69
20) 3+4-Methylphenols	7.26	107	58860	5.40	ng	# 64
31) Naphthalene	8.14	128	1096435	36.23	ng	99
37) 2-Methylnaphthalene	8.84	142	51293	2.64	ng	93
49) Dimethylphthalate	9.60	163	261878	13.87	ng	98
70) Phenanthrene	11.39	178	385752	17.09	ng	98
71) Anthracene	11.44	178	101780	4.49	ng	98
73) Di-n-butylphthalate	11.93	149	112863	4.82	ng	98
74) Fluoranthene	12.59	202	654414	28.11	ng	96
77) Pyrene	12.81	202	655796	28.80	ng	98
80) Benzo(a)anthracene	14.00	228	510102	27.41	ng	98
82) Chrysene	14.03	228	368561	21.15	ng	98
85) Indeno(1,2,3-cd)pyrene	16.85	276	277714	20.58	ng	97
87) Benzo(b)fluoranthene	15.04	252	604150m	31.59	ng	
88) Benzo(k)fluoranthene	15.06	252	205933m	12.47	ng	
89) Benzo(a)pyrene	15.38	252	461556	27.90	ng	# 93
90) Dibenzo(a,h)anthracene	16.85	278	71017m	5.31	ng	
91) Benzo(a,h,i)perylene	17.28	276	265477	19.65	ng	# 90

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

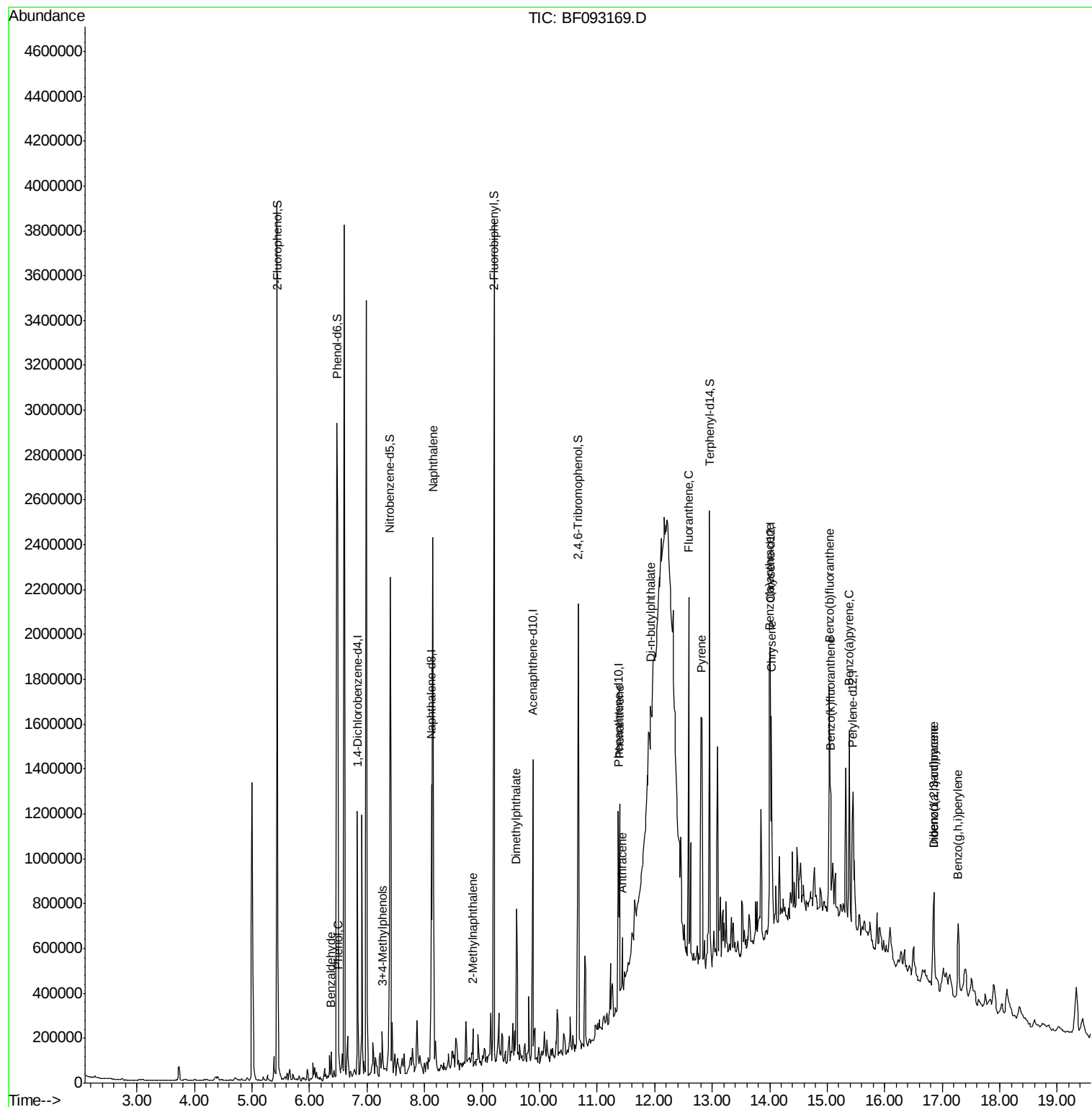
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
Data File : BF093169.D
Acq On : 25 Feb 2017 2:47
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Sample : I1955-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

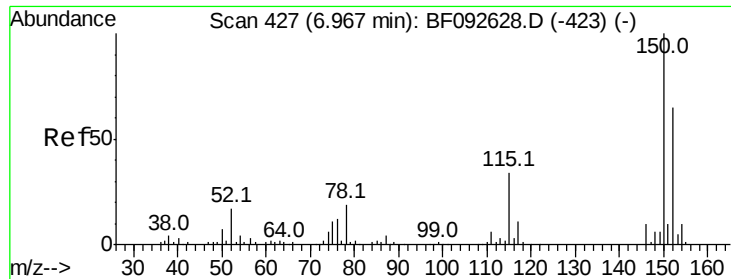
Instrument :
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#1

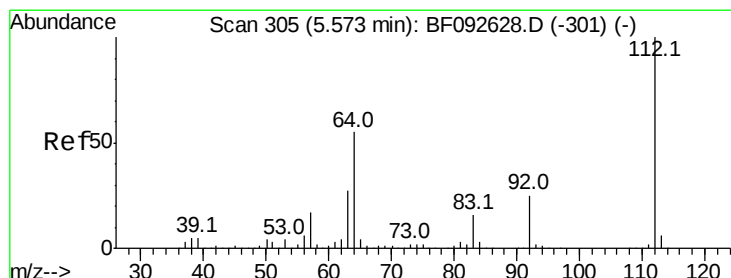
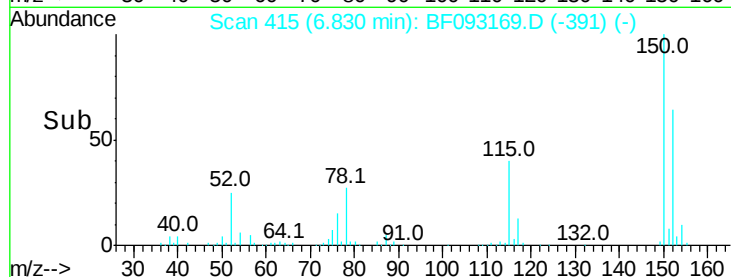
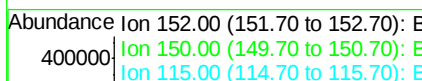
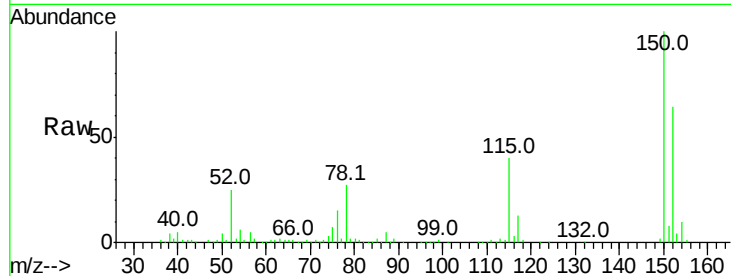
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 415
Delta R.T. -0.02 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.9	187.3
115	62.5	46.0	69.0

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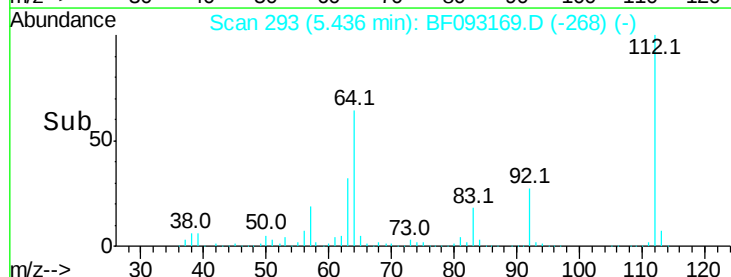
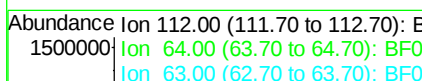
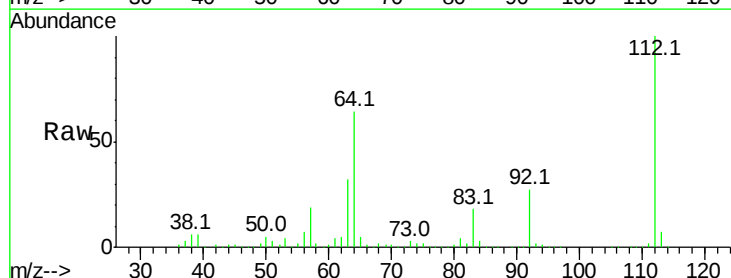
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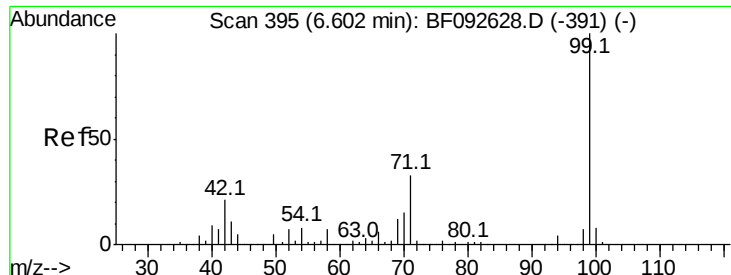


#5

2-Fluorophenol
Concen: 124.37 ng
RT: 5.44 min Scan# 293
Delta R.T. -0.01 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.6	46.1	69.1
63	31.7	23.8	35.6





#7

Phenol-d6

Concen: 122.51 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Instrument :

BNA_F

ClientSampled :

B1-4

Tot Ion: 99 Resp: 1519639

Ion Ratio Lower Upper

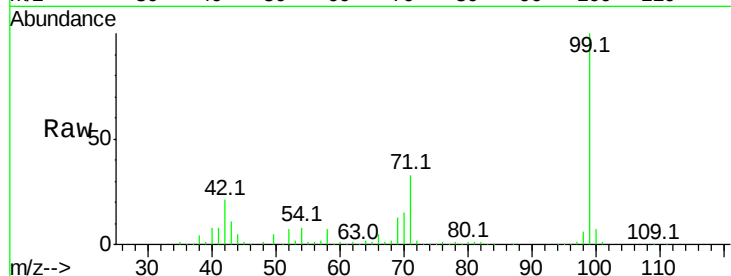
99 100

42 20.9 15.6 23.4

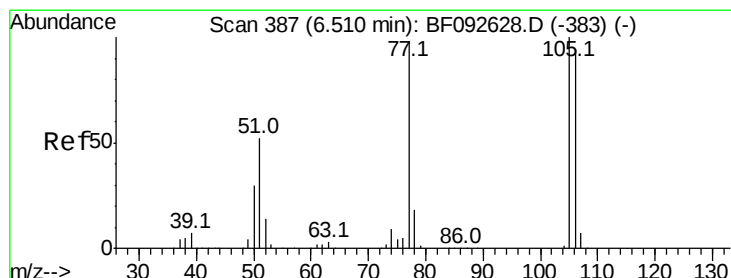
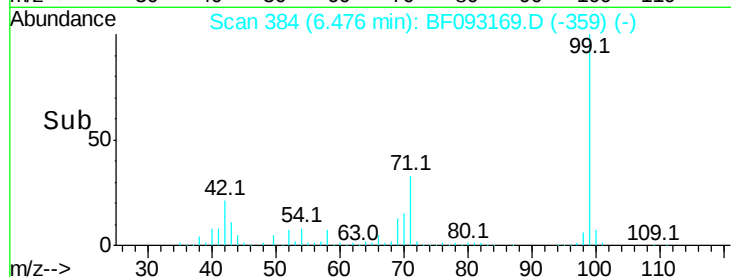
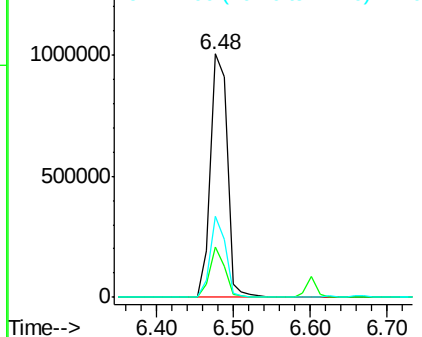
71 33.2 27.5 41.3

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.42 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.02 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

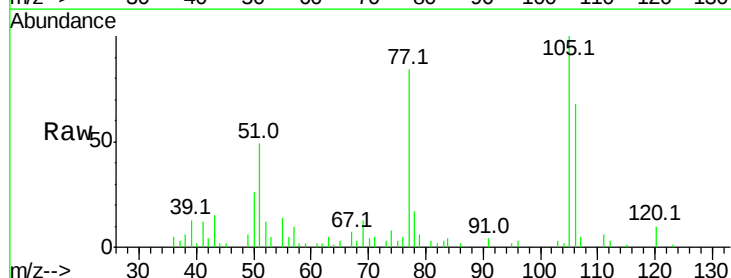
Tgt Ion: 77 Resp: 30427

Ion Ratio Lower Upper

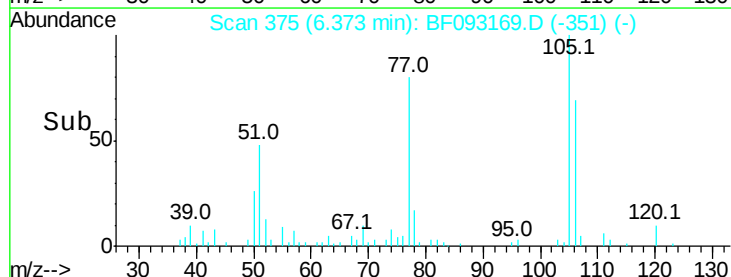
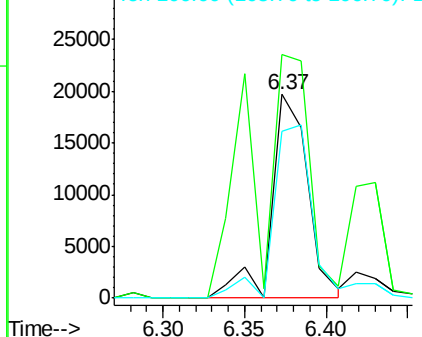
77 100

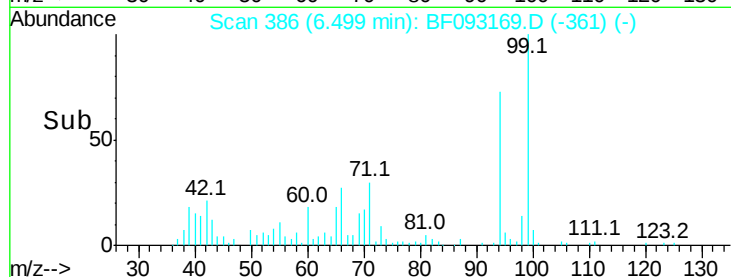
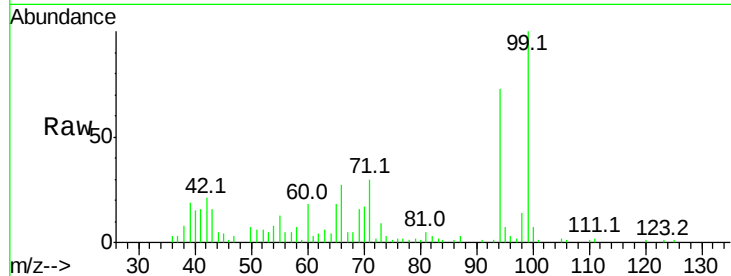
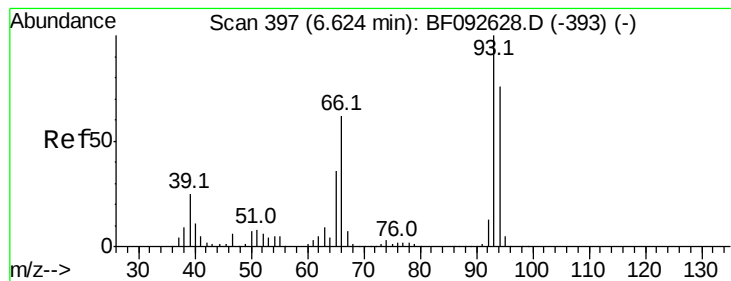
105 119.6 83.9 123.9

106 81.7 77.6 117.6



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 105.00 (104.70 to 105.70): BF0
Ion 106.00 (105.70 to 106.70): BF0





#10

Phenol

Concen: 4.16 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Tot Ion	94	Resp	60355
Ion Ratio	Lower	Upper	
94	100		
65	25.0	21.4	61.4
66	37.1	44.0	84.0#

Instrument :

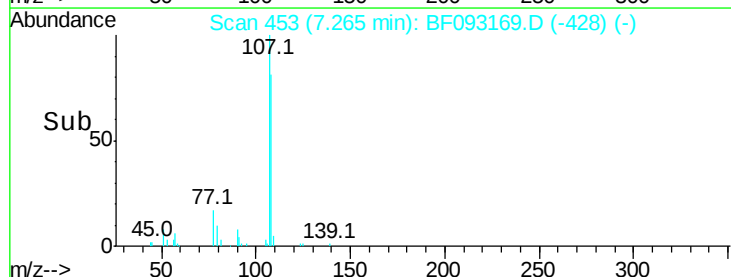
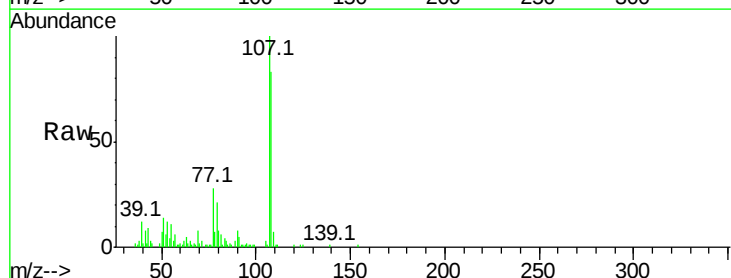
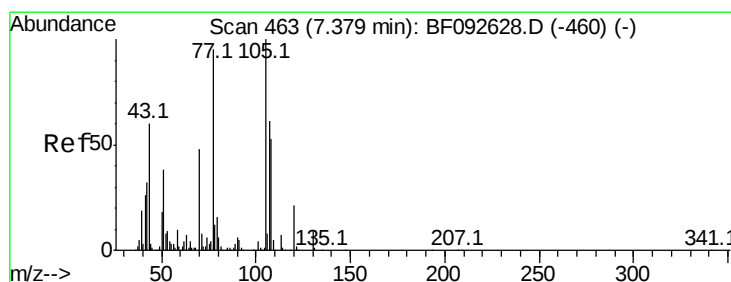
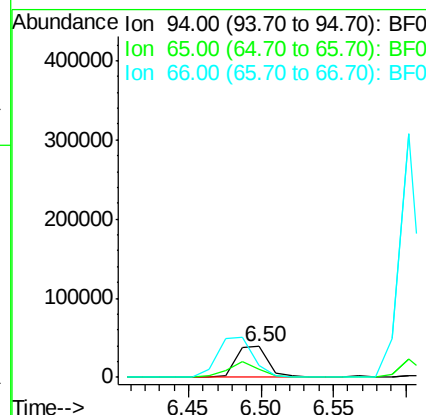
BNA_F

ClientSampleId :

B1-4

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#20

3+4-Methylphenols

Concen: 5.40 ng

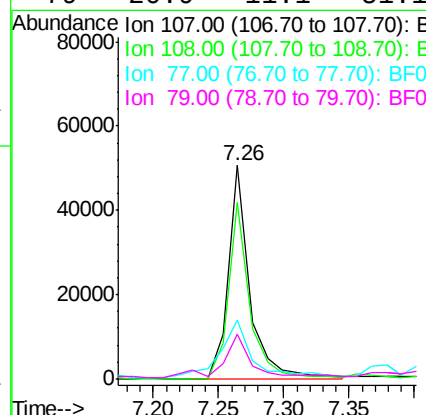
RT: 7.26 min Scan# 453

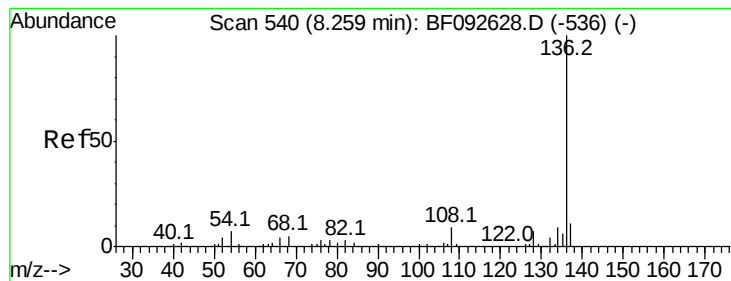
Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Tgt Ion	107	Resp	58860
Ion Ratio	Lower	Upper	
107	100		
108	82.7	73.0	113.0
77	27.6	71.3	111.3#
79	20.9	11.1	51.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Instrument :

BNA_F

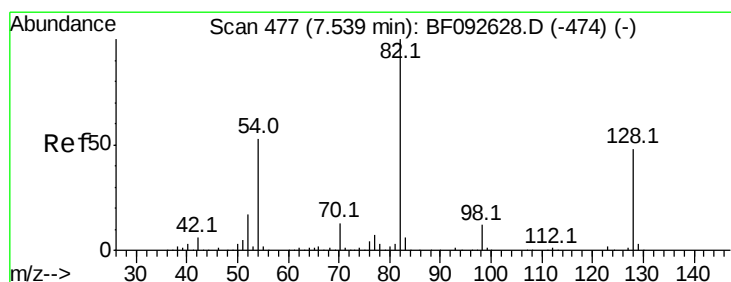
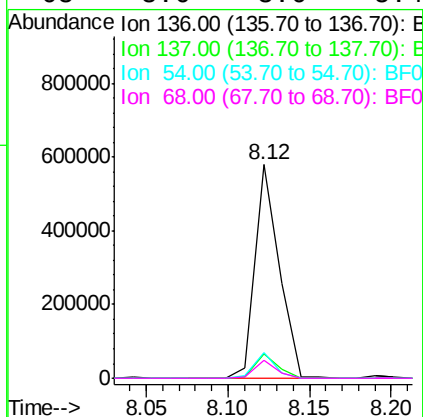
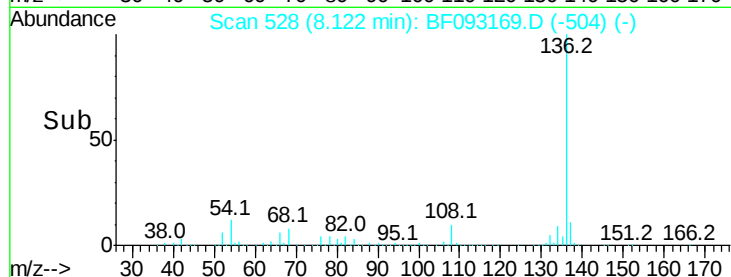
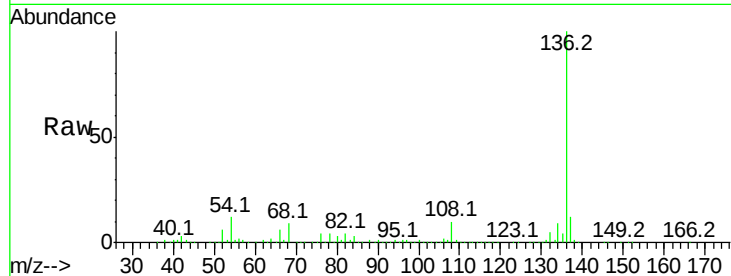
ClientSampleId :

B1-4

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.5	8.4	12.6
54	11.9	4.5	6.7#
68	8.6	3.6	5.4#

Manual Integrations
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#23

Nitrobenzene-d5

Concen: 80.70 ng

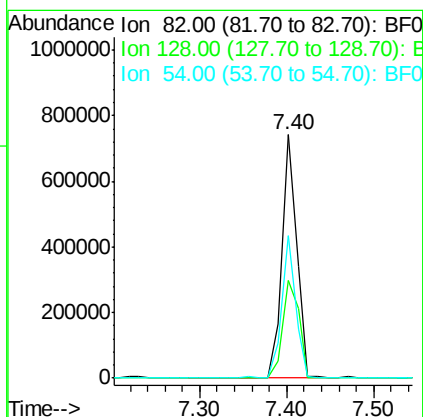
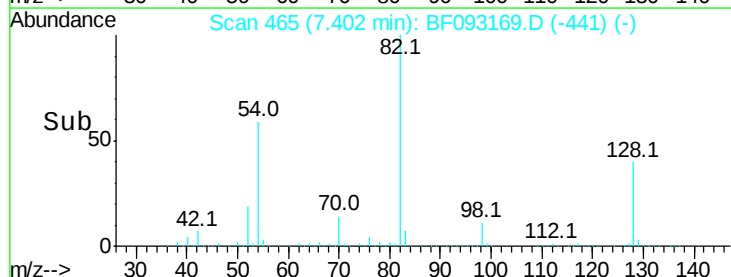
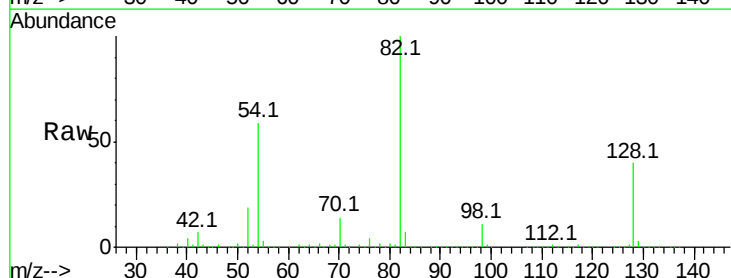
RT: 7.40 min Scan# 465

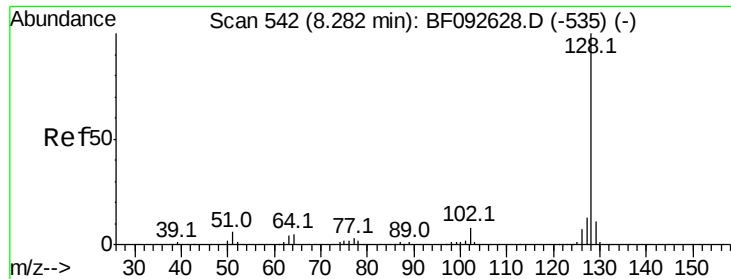
Delta R.T. -0.02 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	40.3	34.6	52.0
54	58.7	39.5	59.3





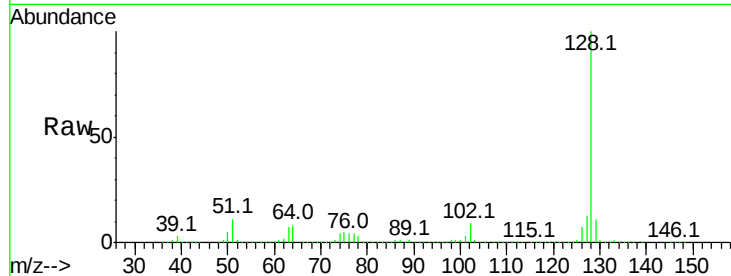
#31
Naphthalene
Concen: 36.23 ng
RT: 8.14 min Scan# 530
Delta R.T. -0.02 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.5	14.3
127	13.4	10.8	16.2

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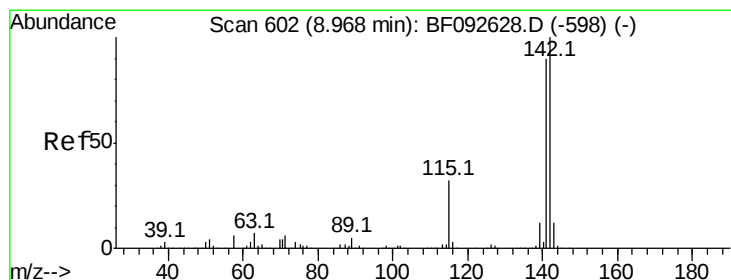
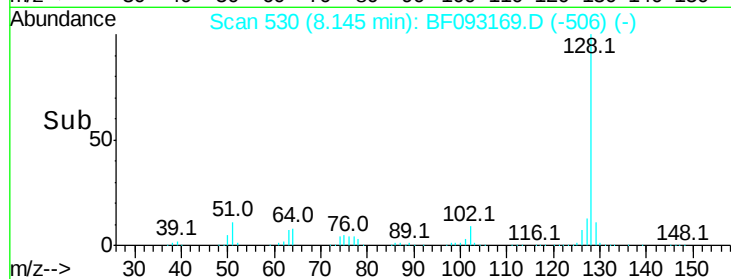
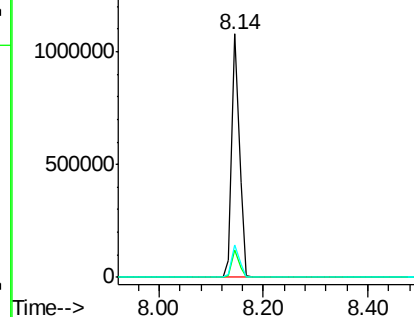


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37
2-Methylnaphthalene
Concen: 2.64 ng
RT: 8.84 min Scan# 591
Delta R.T. -0.01 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

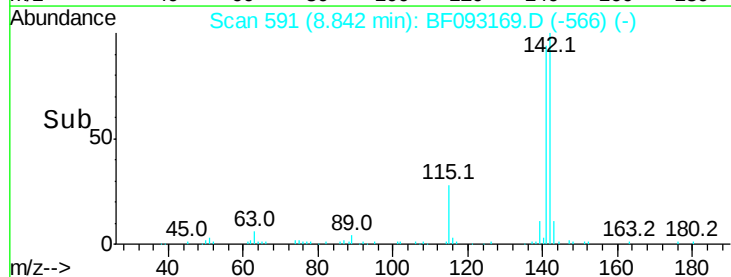
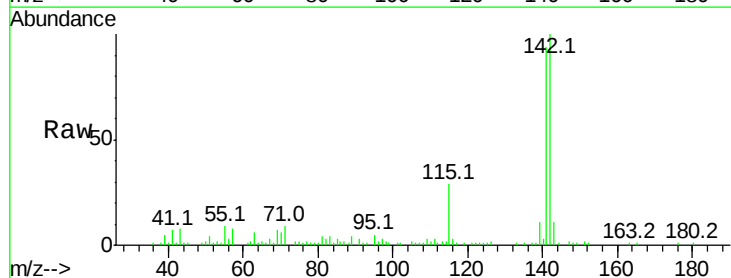
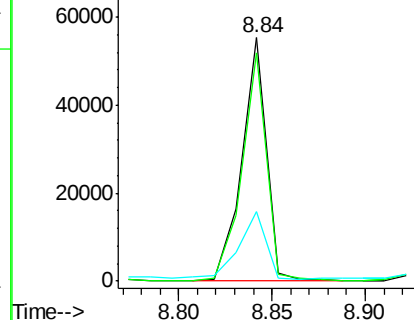
Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.9	71.0	106.6
115	28.6	28.3	42.5

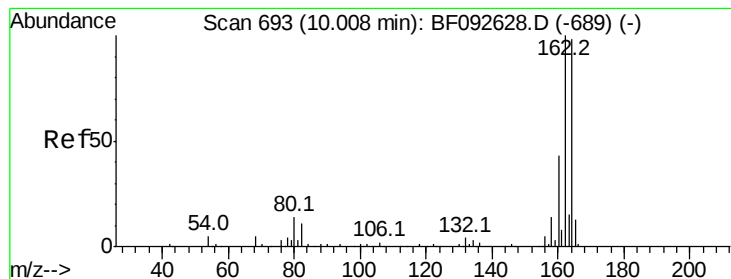
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Instrument :

BNA_F

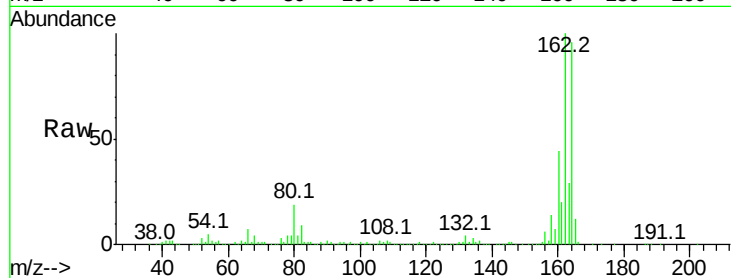
ClientSampleId :

B1-4

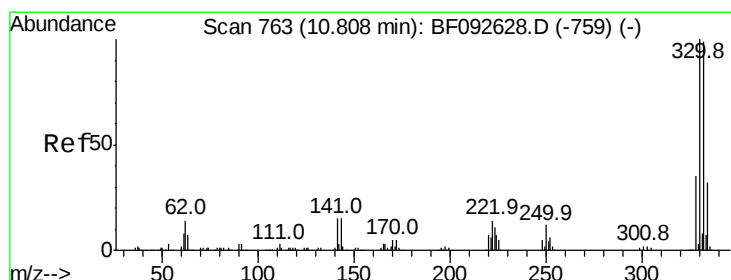
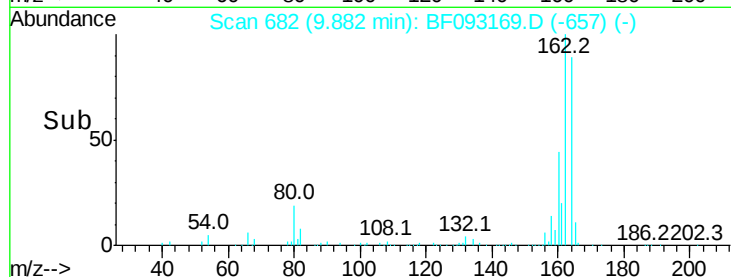
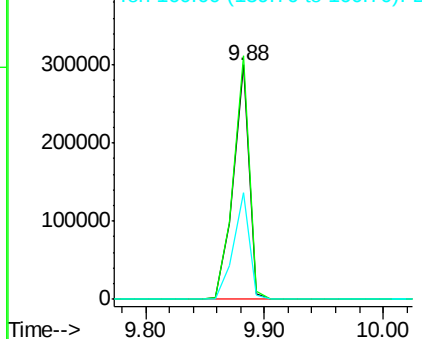
Tot Ion:	164	Resp:	280319
Ion Ratio	Lower	Upper	
164	100		
162	103.9	80.2	120.2
160	45.5	36.9	55.3

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 106.45 ng

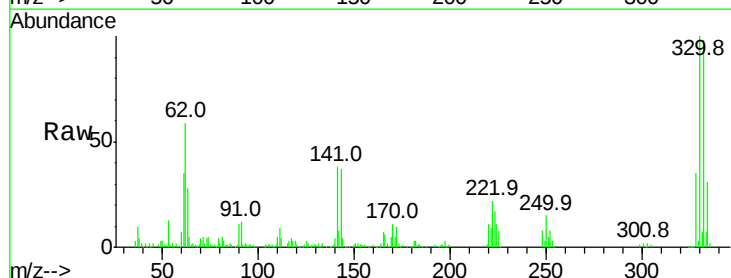
RT: 10.67 min Scan# 751

Delta R.T. -0.01 min

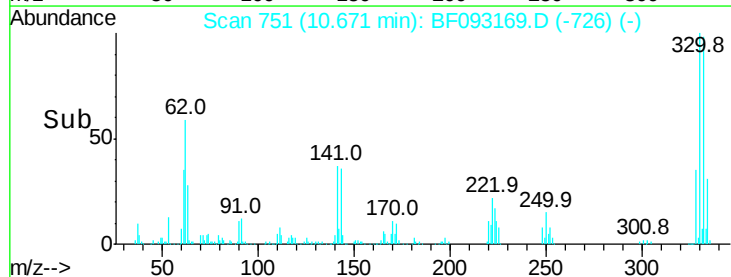
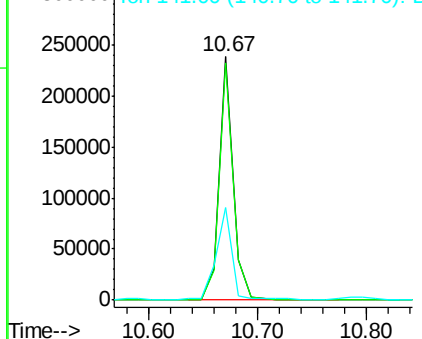
Lab File: BF093169.D

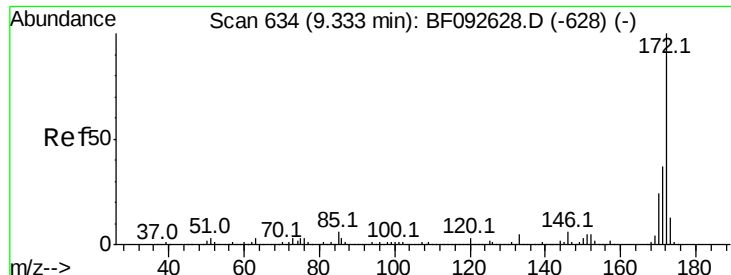
Acq: 25 Feb 2017 2:47

Tgt Ion:	330	Resp:	215825
Ion Ratio	Lower	Upper	
330	100		
332	97.4	77.4	116.2
141	42.1	34.1	51.1



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





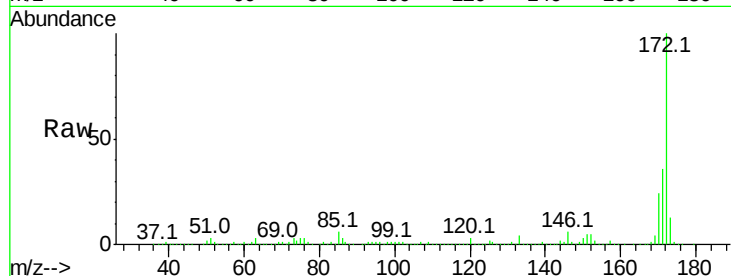
#44
2-Fluorobiphenyl
Concen: 85.33 ng
RT: 9.21 min Scan# 623
Delta R.T. -0.01 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Instrument :
BNA_F
ClientSampleId :
B1-4

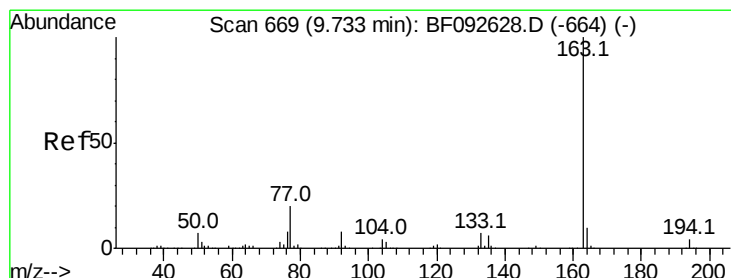
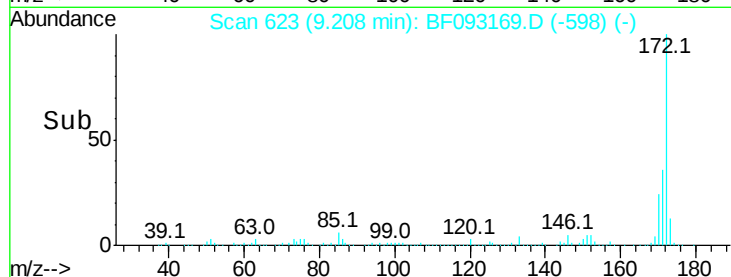
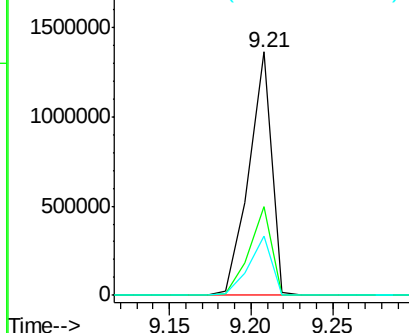
Tot Ion:172 Resp: 1320325
Ion Ratio Lower Upper
172 100
171 36.3 29.4 44.0
170 24.4 20.2 30.4

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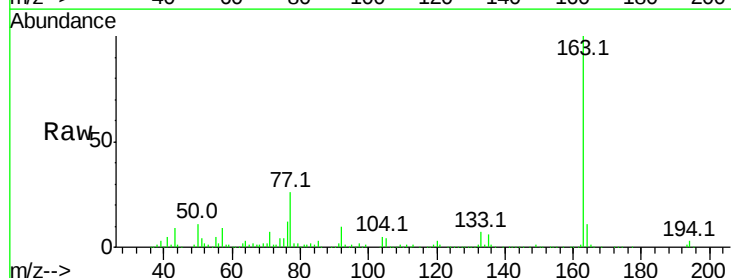


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

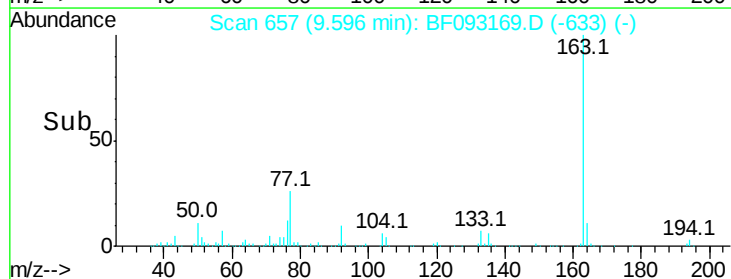
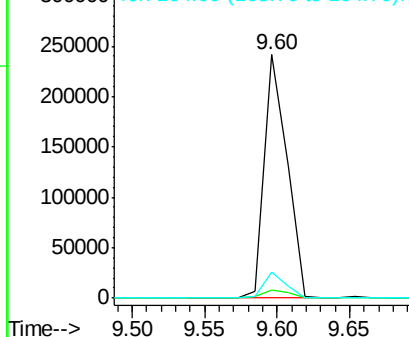


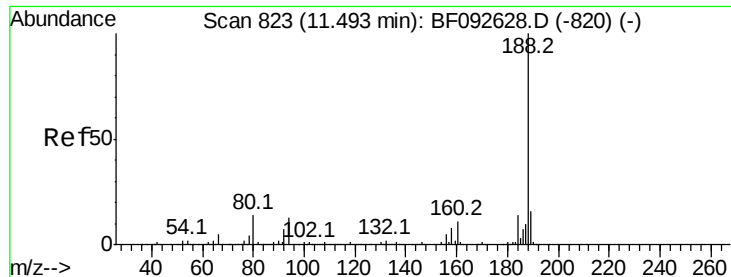
#49
Dimethylphthalate
Concen: 13.87 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.02 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Tgt Ion:163 Resp: 261878
Ion Ratio Lower Upper
163 100
194 3.3 3.0 4.4
164 10.7 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Instrument :

BNA_F

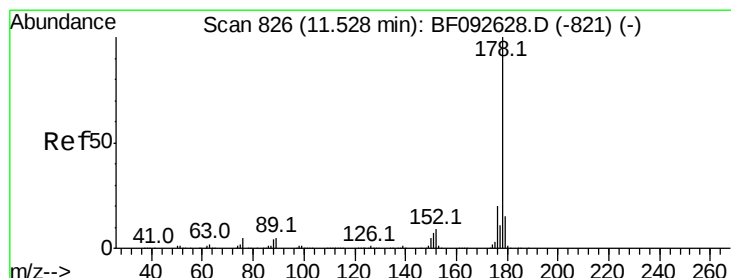
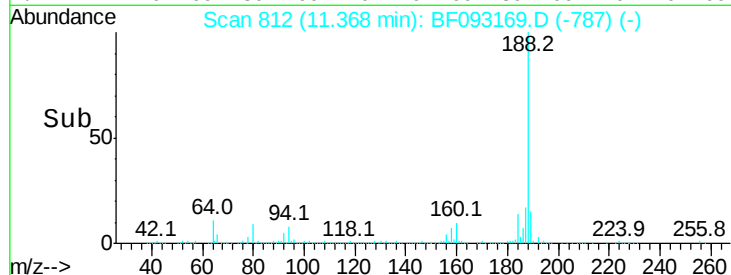
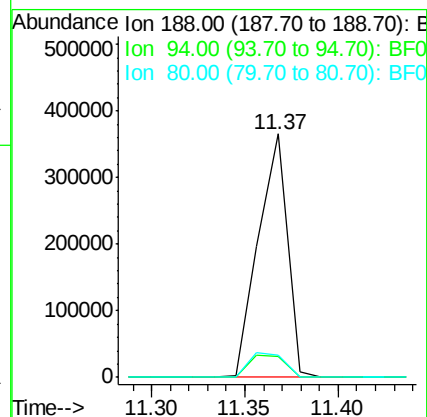
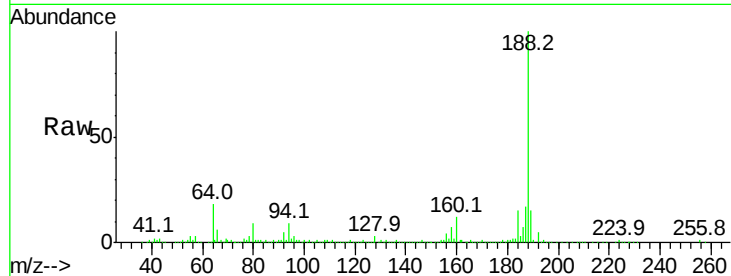
ClientSampled :

B1-4

Tot Ion:	188	Resp:	393874
Ion Ratio	Lower	Upper	
188	100		
94	8.6	10.0	15.0#
80	8.9	11.2	16.8#

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#70

Phenanthrene

Concen: 17.09 ng

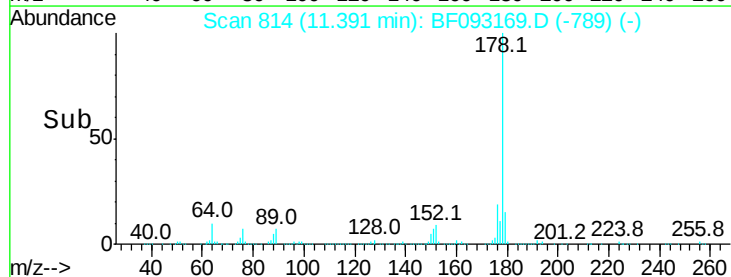
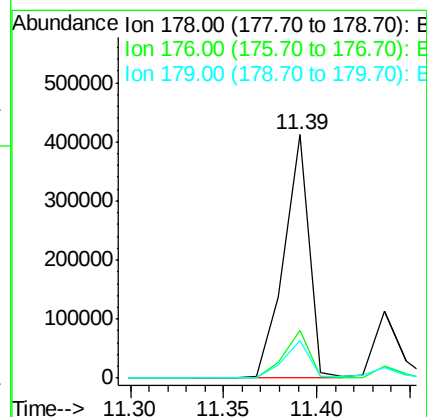
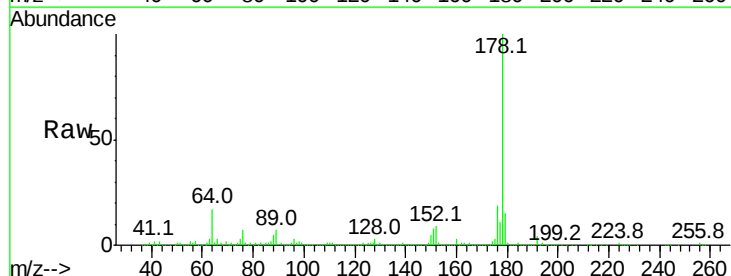
RT: 11.39 min Scan# 814

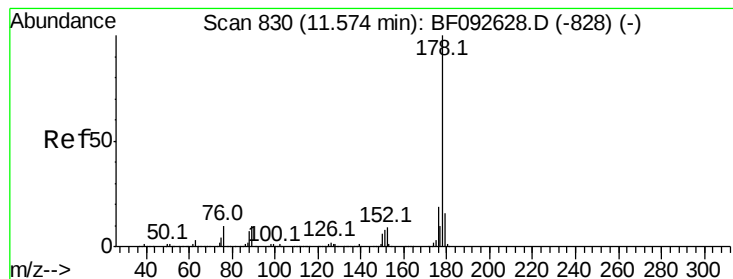
Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Tgt Ion:	178	Resp:	385752
Ion Ratio	Lower	Upper	
178	100		
176	19.4	16.6	25.0
179	15.3	12.8	19.2





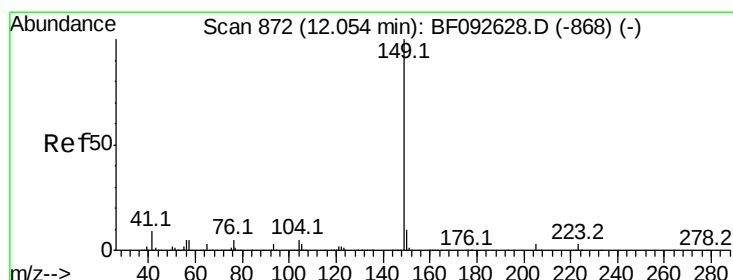
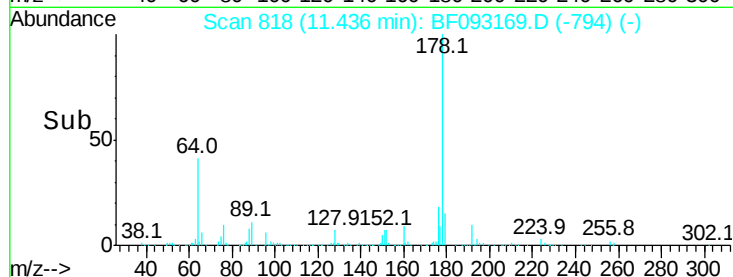
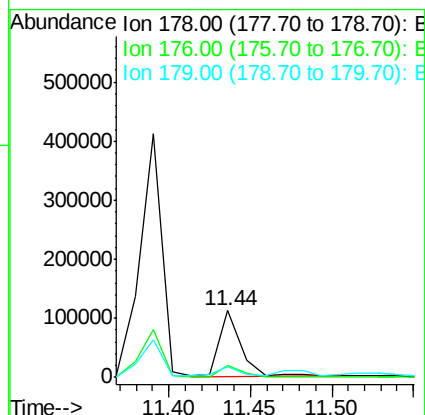
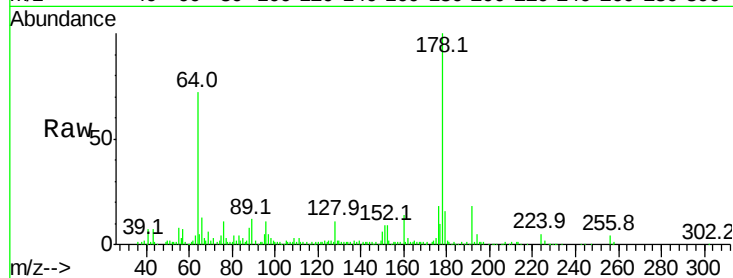
#71
 Anthracene
 Concen: 4.49 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.02 min
 Lab File: BF093169.D
 Acq: 25 Feb 2017 2:47

Instrument :
 BNA_F
 ClientSampled :
 B1-4

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.9	23.9
179	16.1	13.2	19.8

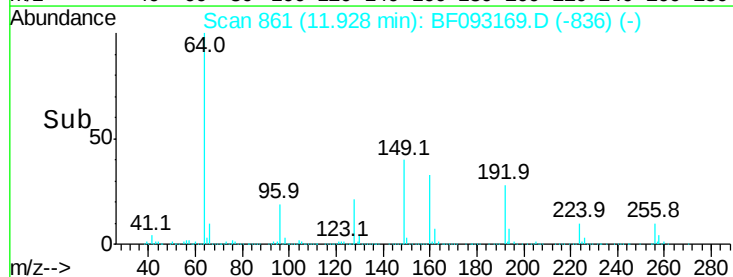
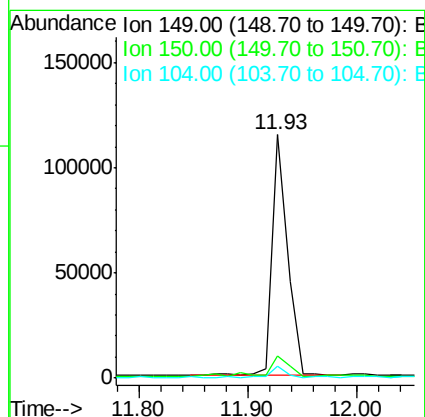
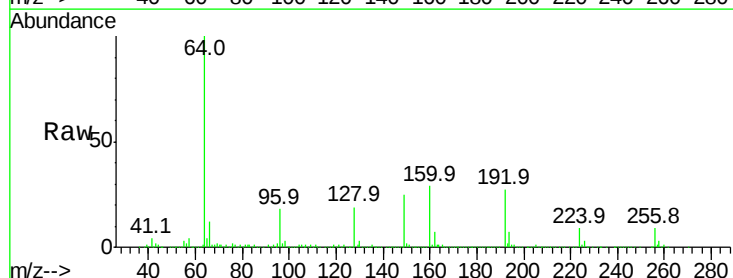
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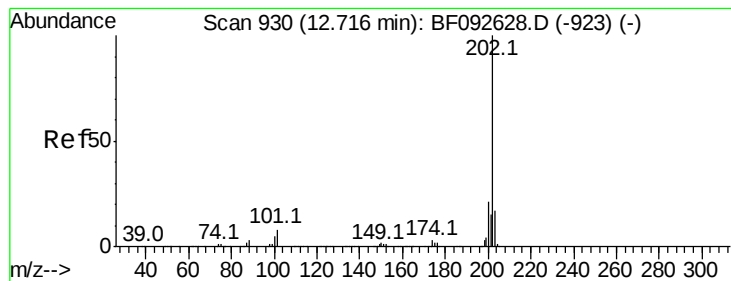
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#73
 Di-n-butylphthalate
 Concen: 4.82 ng
 RT: 11.93 min Scan# 861
 Delta R.T. -0.01 min
 Lab File: BF093169.D
 Acq: 25 Feb 2017 2:47

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.4	8.1	12.1
104	5.0	4.6	7.0





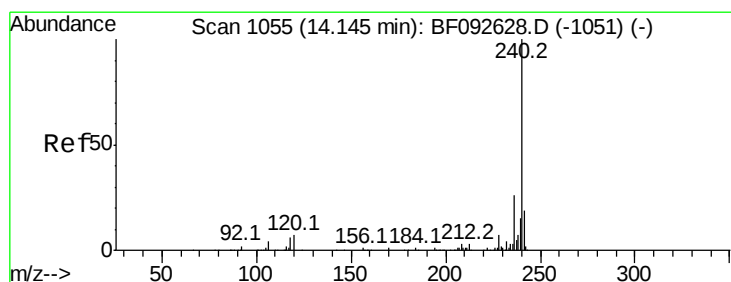
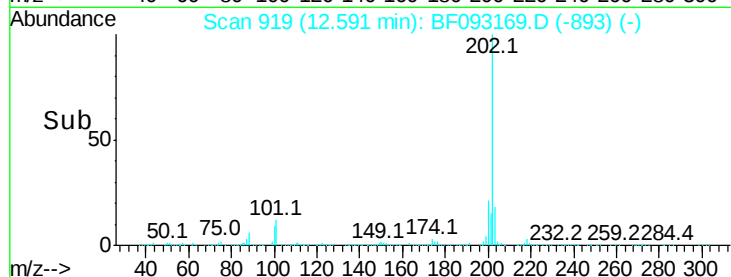
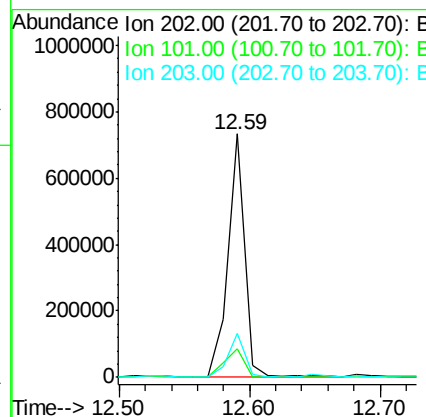
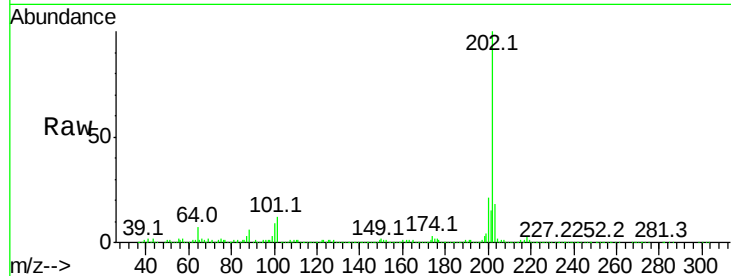
#74
 Fluoranthene
 Concen: 28.11 ng
 RT: 12.59 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BF093169.D
 Acq: 25 Feb 2017 2:47

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.6	0.0	34.6
203	18.0	0.0	38.7

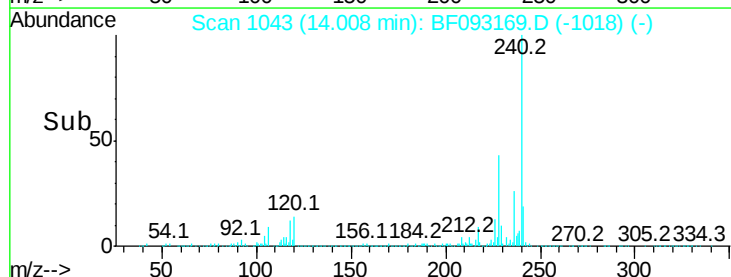
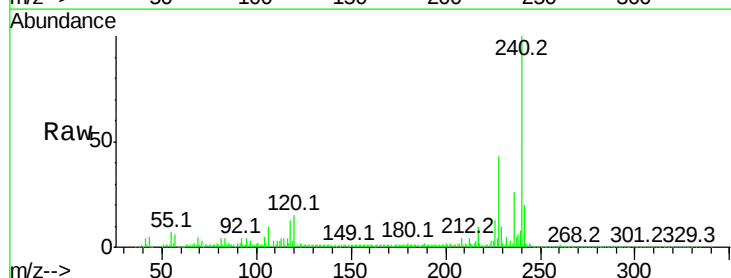
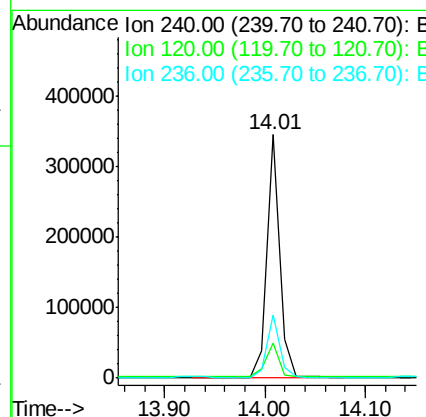
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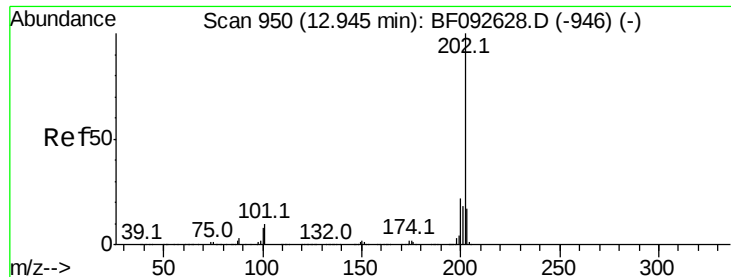
mohammad
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.01 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF093169.D
 Acq: 25 Feb 2017 2:47

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.6	12.9	19.3
236	26.1	20.9	31.3





#77

Pvrene

Concen: 28.80 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Instrument :

BNA_F

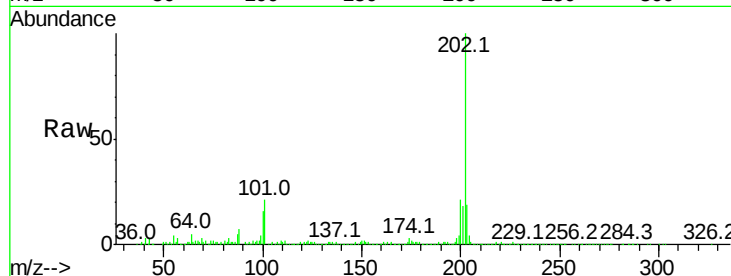
ClientSampleId :

B1-4

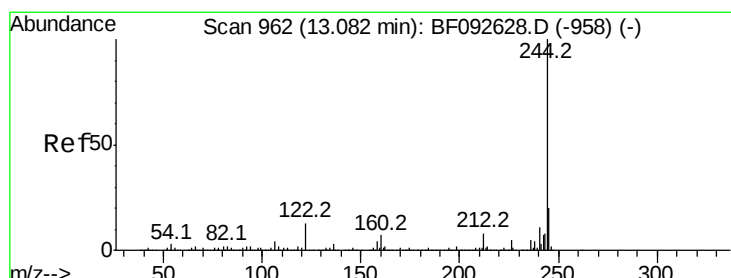
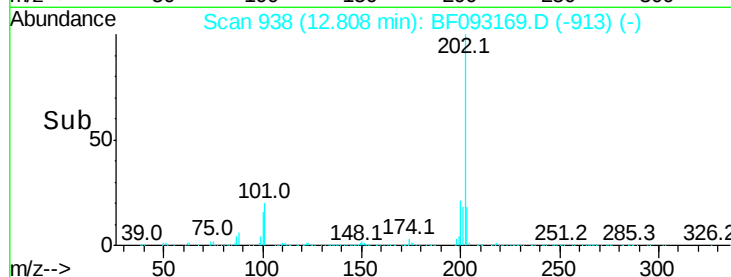
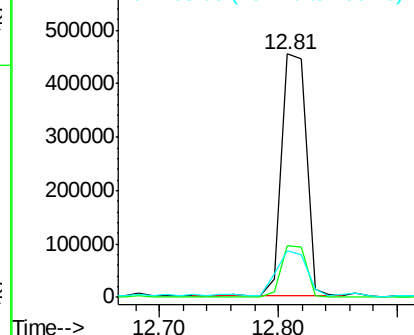
Tot Ion:	202	Resp:	655796
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.7	26.5
203	19.2	14.7	22.1

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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: 55.91 ng

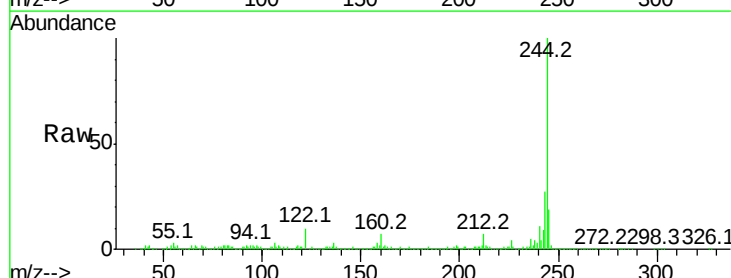
RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

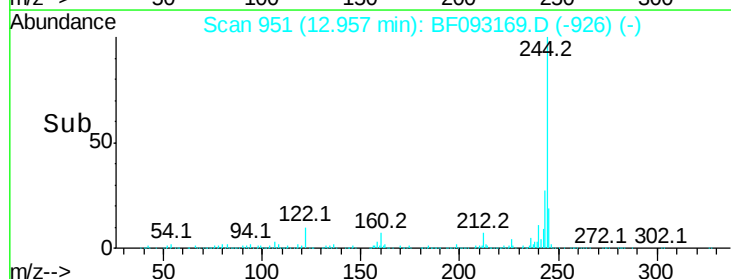
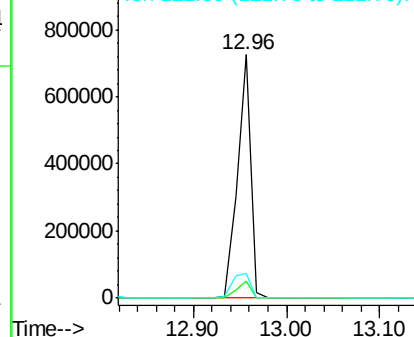
Lab File: BF093169.D

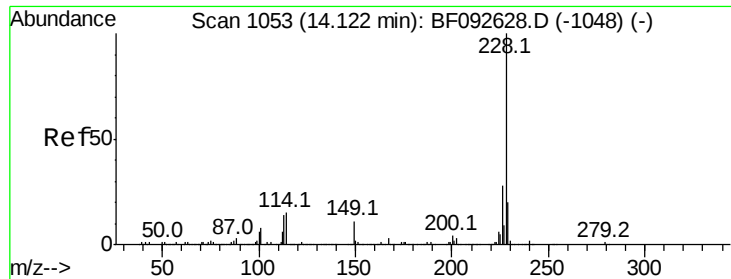
Acq: 25 Feb 2017 2:47

Tgt Ion:	244	Resp:	723922
Ion Ratio	Lower	Upper	
244	100		
212	7.0	6.2	9.2
122	10.3	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





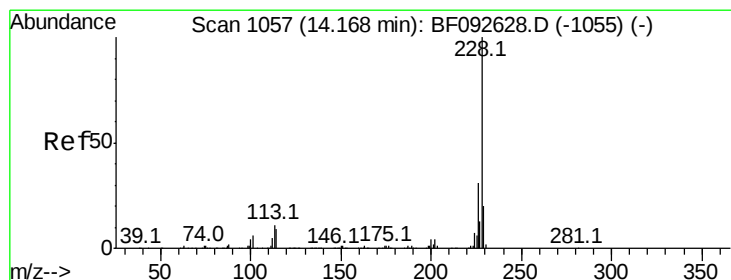
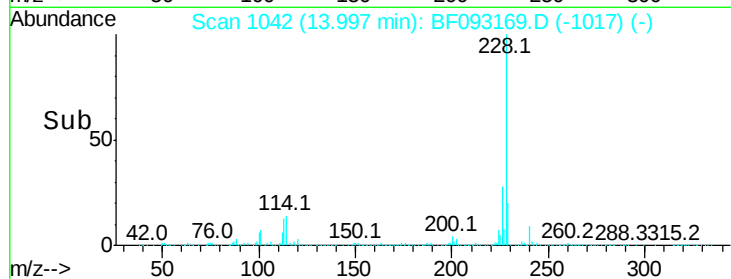
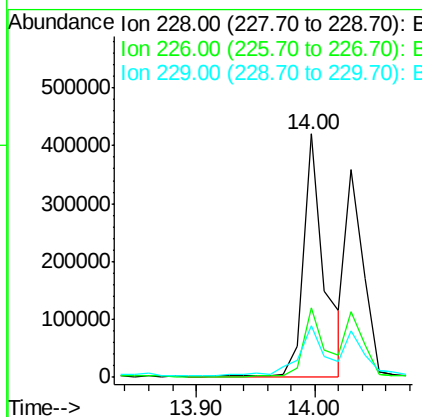
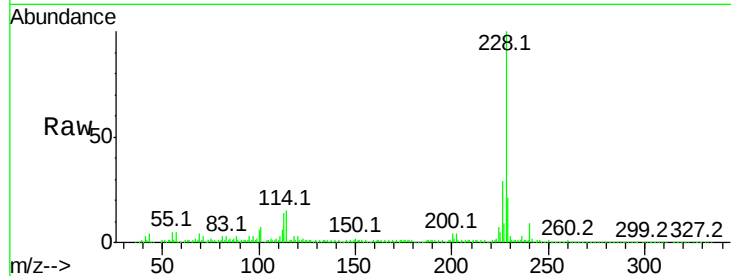
#80
Benzo(a)anthracene
Concen: 27.41 ng
RT: 14.00 min Scan# 1042
Delta R.T. -0.01 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.4	33.6
229	21.3	16.2	24.4

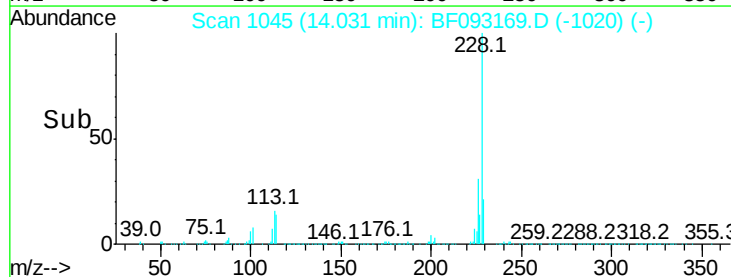
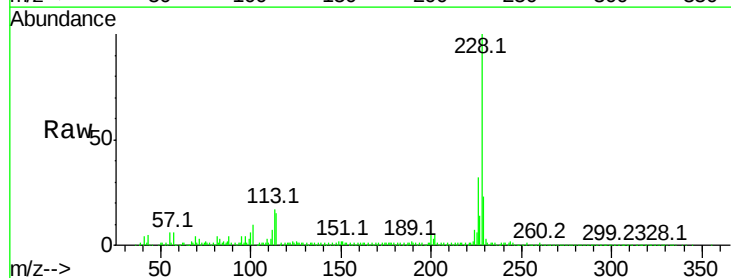
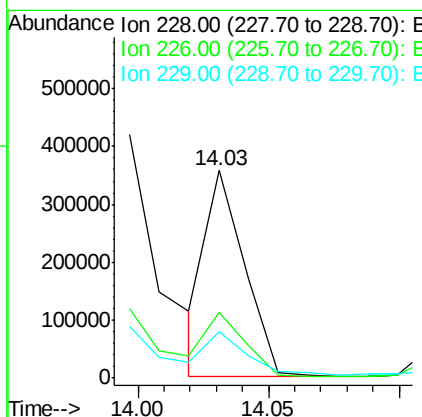
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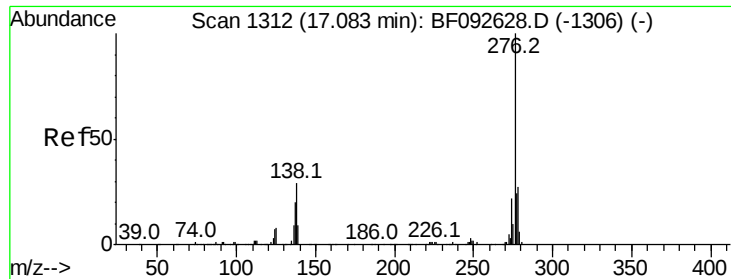
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#82
Chrysene
Concen: 21.15 ng
RT: 14.03 min Scan# 1045
Delta R.T. -0.01 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.4	38.0
229	22.5	16.2	24.2





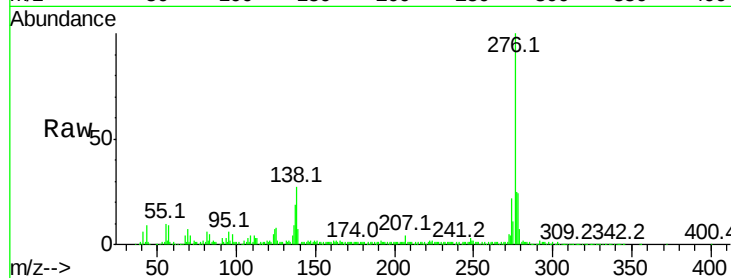
#85
Indeno(1,2,3-cd)pvrene
Concen: 20.58 ng
RT: 16.85 min Scan# 1292
Delta R.T. -0.00 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Instrument :
BNA_F
ClientSampleId :
B1-4

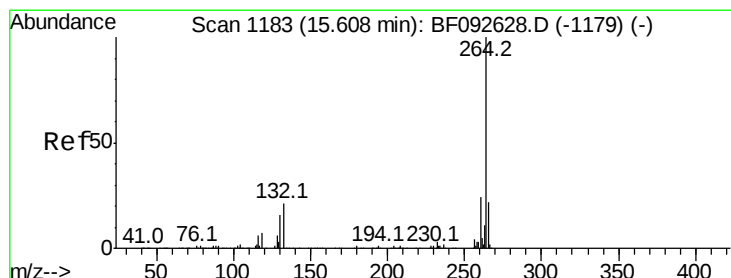
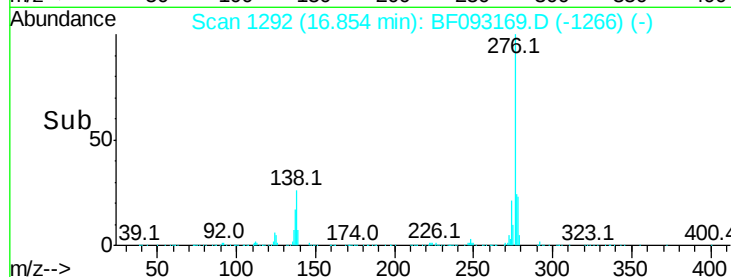
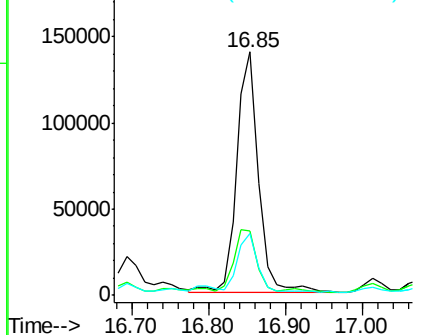
Tot Ion	Ratio	Resp	Lower	Upper
276	100	277714		
138	27.7		21.8	32.6
277	22.5		20.2	30.4

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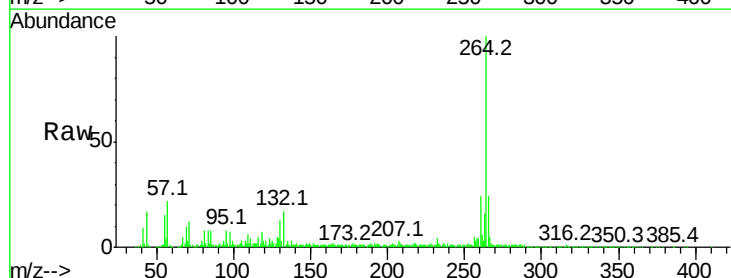


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

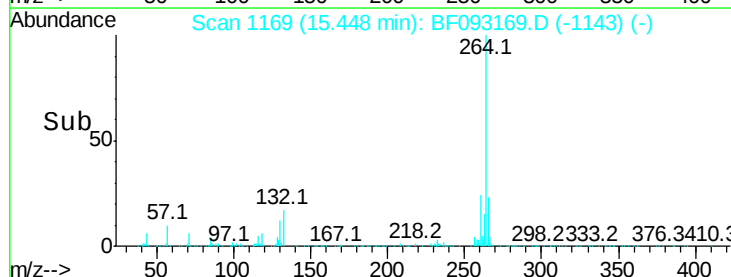
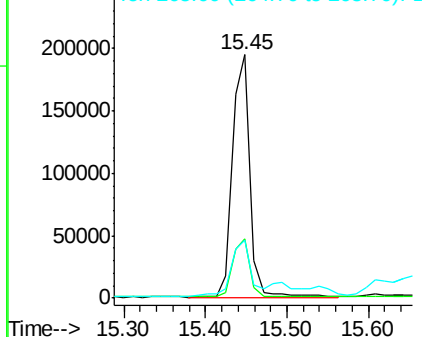


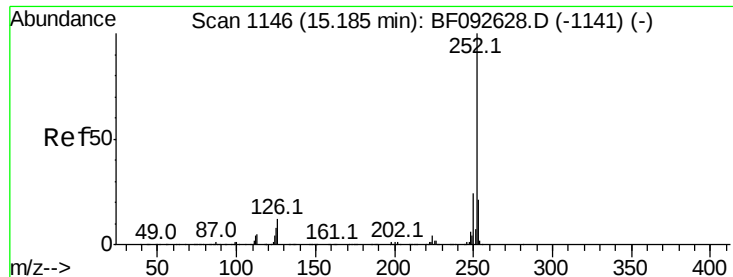
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.45 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	290588		
260	24.3		19.2	28.8
265	23.6		17.4	26.0



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 31.59 ng m

RT: 15.04 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Instrument :

BNA_F

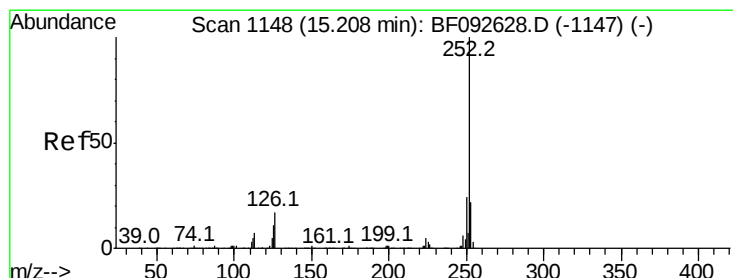
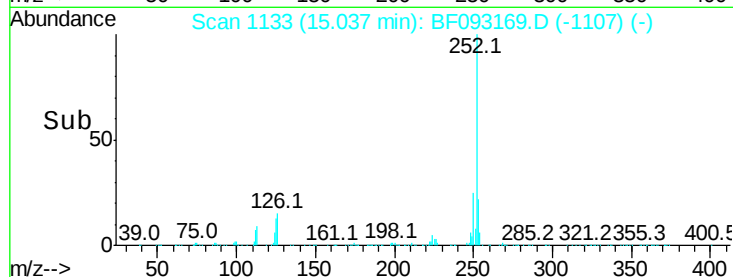
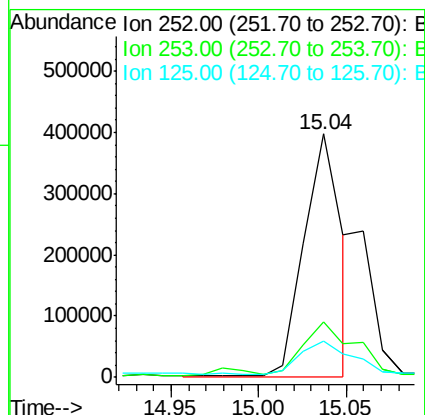
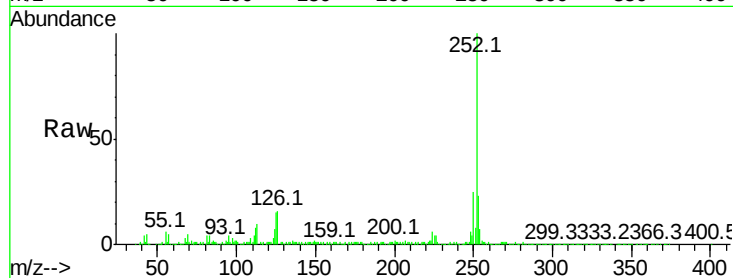
ClientSampled :

B1-4

Tot Ion:	252	Resp:	604150
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.2	27.4
125	14.9	9.8	14.6#

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#88

Benzo(k)fluoranthene

Concen: 12.47 ng m

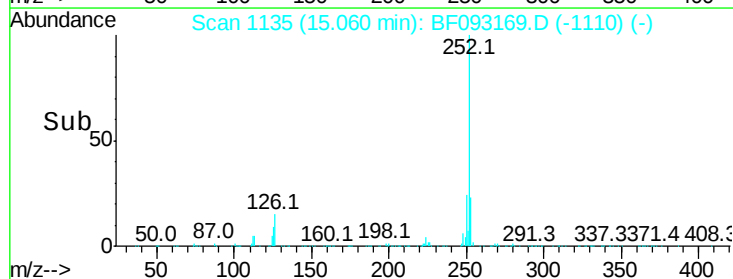
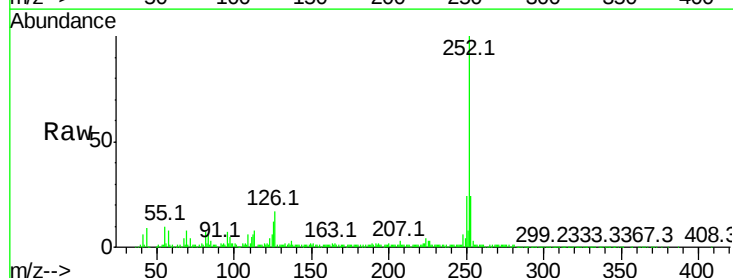
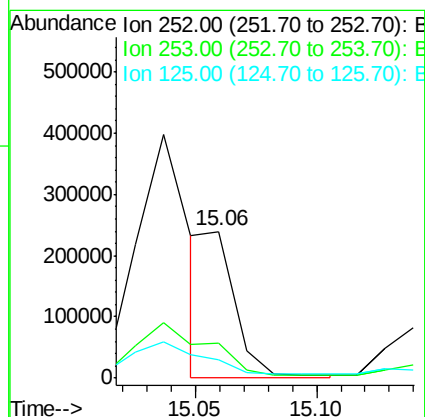
RT: 15.06 min Scan# 1135

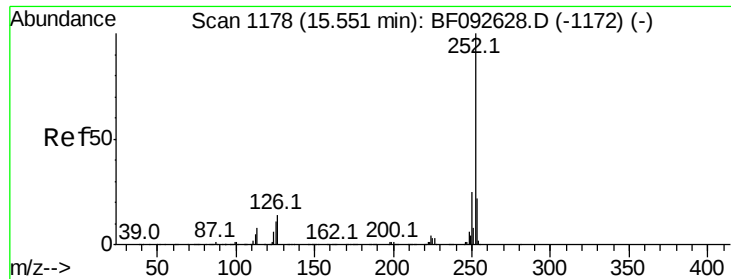
Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Tgt Ion:	252	Resp:	205933
Ion Ratio	Lower	Upper	
252	100		
253	24.1	18.5	27.7
125	12.2	8.9	13.3





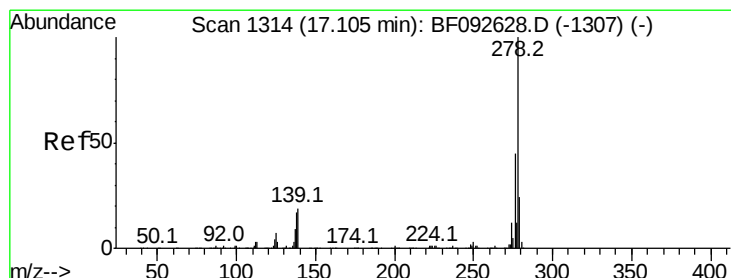
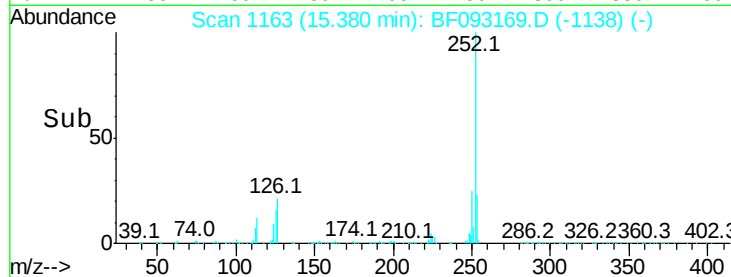
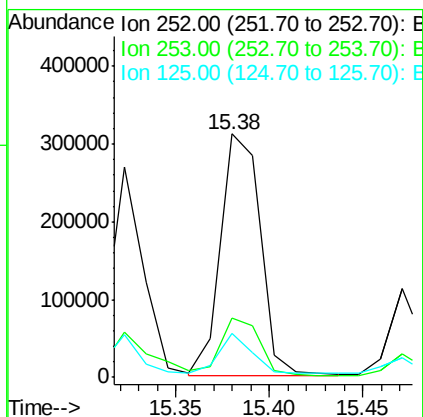
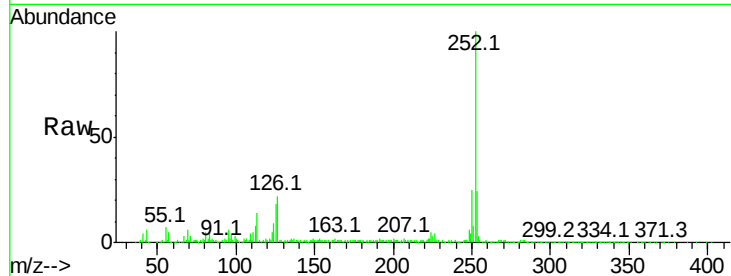
#89
Benzo(a)pyrene
Concen: 27.90 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Instrument :
BNA_F
ClientSampleId :
B1-4

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.1	18.2	27.2
125	18.2	10.0	15.0

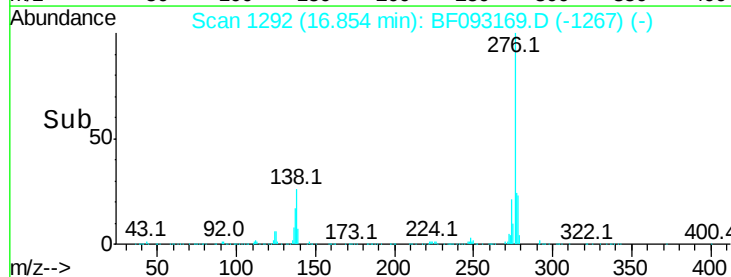
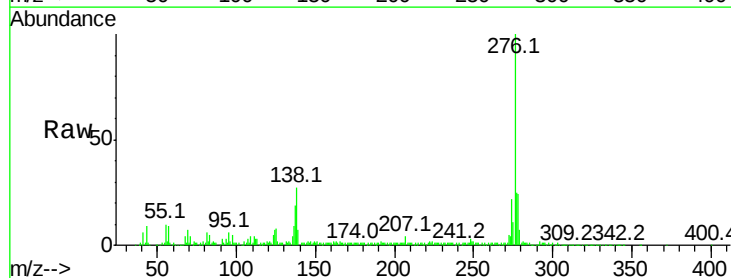
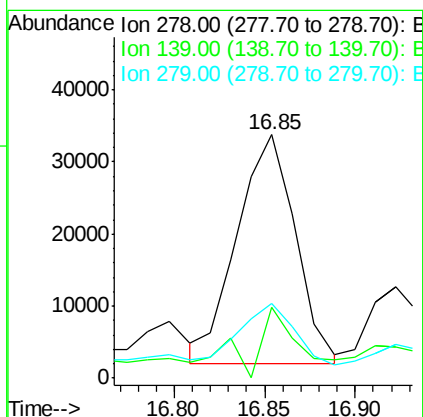
Manual Integrations
APPROVED

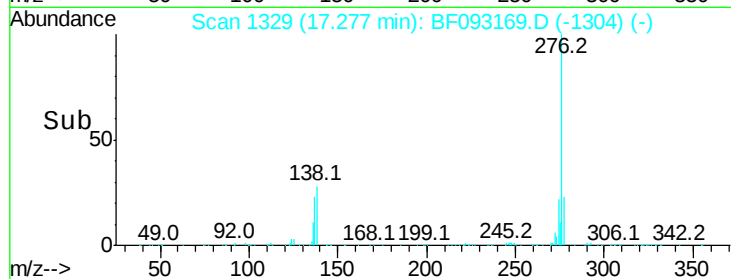
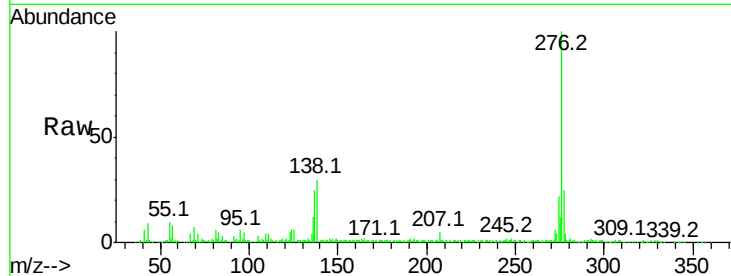
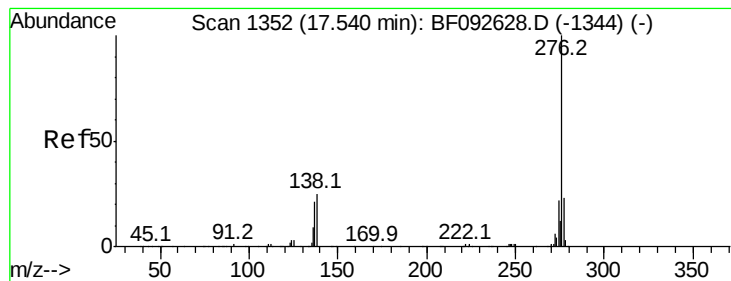
mohammad
2/27/2017 1:08:03 PM



#90
Dibenzo(a,h)anthracene
Concen: 5.31 ng m
RT: 16.85 min Scan# 1292
Delta R.T. -0.01 min
Lab File: BF093169.D
Acq: 25 Feb 2017 2:47

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	29.3	14.8	22.2
279	30.8	19.8	29.6





#91

Benzo(a,h,i)perylene

Concen: 19.65 ng

RT: 17.28 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF093169.D

Acq: 25 Feb 2017 2:47

Instrument :

BNA_F

ClientSampleId :

B1-4

Tot Ion:	276	Resp:	265477
Ion Ratio	Lower	Upper	
276	100		
277	24.7	19.2	28.8
138	29.7	16.0	24.0

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:03 PM

