

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
 Data File : BF093449.D
 Acq On : 9 Mar 2017 00:45
 Operator : SJ/MA
 Sample : I2133-02
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB422A

Manual Integrations
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Quant Time: Mar 09 03:22:12 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 07 15:55:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	159479	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	595534	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	239247	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	403361	20.00	ng	0.01
75) Chrysene-d12	13.95	240	315024	20.00	ng	0.02
86) Perylene-d12	15.37	264	270631	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	1262652	131.77	ng	0.01
7) Phenol-d6	6.42	99	1656640	137.10	ng	0.01
23) Nitrobenzene-d5	7.34	82	994655	92.67	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	243956	156.51	ng	0.01
44) 2-Fluorobiphenyl	9.13	172	1331091	103.49	ng	0.00
78) Terphenyl-d14	12.88	244	951427	78.52	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.08	128	248293	8.32	ng	98
37) 2-Methylnaphthalene	8.77	142	128547	6.77	ng	98
45) 1,1'-Biphenyl	9.24	154	43008	2.47	ng	98
48) Acenaphthylene	9.67	152	149672	6.80	ng	95
49) Dimethylphthalate	9.53	163	964542	60.81	ng	98
51) Acenaphthene	9.84	154	225360	17.32	ng	94
54) Dibenzofuran	10.01	168	229002	14.06	ng	96
57) Fluorene	10.36	166	175438	12.71	ng	96
70) Phenanthrene	11.33	178	1086395	47.19	ng	99
71) Anthracene	11.37	178	414661	17.80	ng	99
72) Carbazole	11.53	167	96725	4.42	ng	# 92
74) Fluoranthene	12.52	202	1956520	87.98	ng	100
77) Pvrene	12.75	202	2177116	95.02	ng	100
80) Benzo(a)anthracene	13.93	228	1200630	64.54	ng	97
82) Chrysene	13.97	228	855578	49.71	ng	98
85) Indeno(1,2,3-cd)pyrene	16.76	276	450822	31.29	ng	97
87) Benzo(b)fluoranthene	14.97	252	1179101m	71.54	ng	
88) Benzo(k)fluoranthene	14.99	252	267072m	16.80	ng	
89) Benzo(a)pvrene	15.32	252	761493	50.55	ng	# 97
90) Dibenzo(a,h)anthracene	16.76	278	97751	7.84	ng	# 79
91) Benzo(g,h,i)perylene	17.18	276	466799	36.50	ng	# 91

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

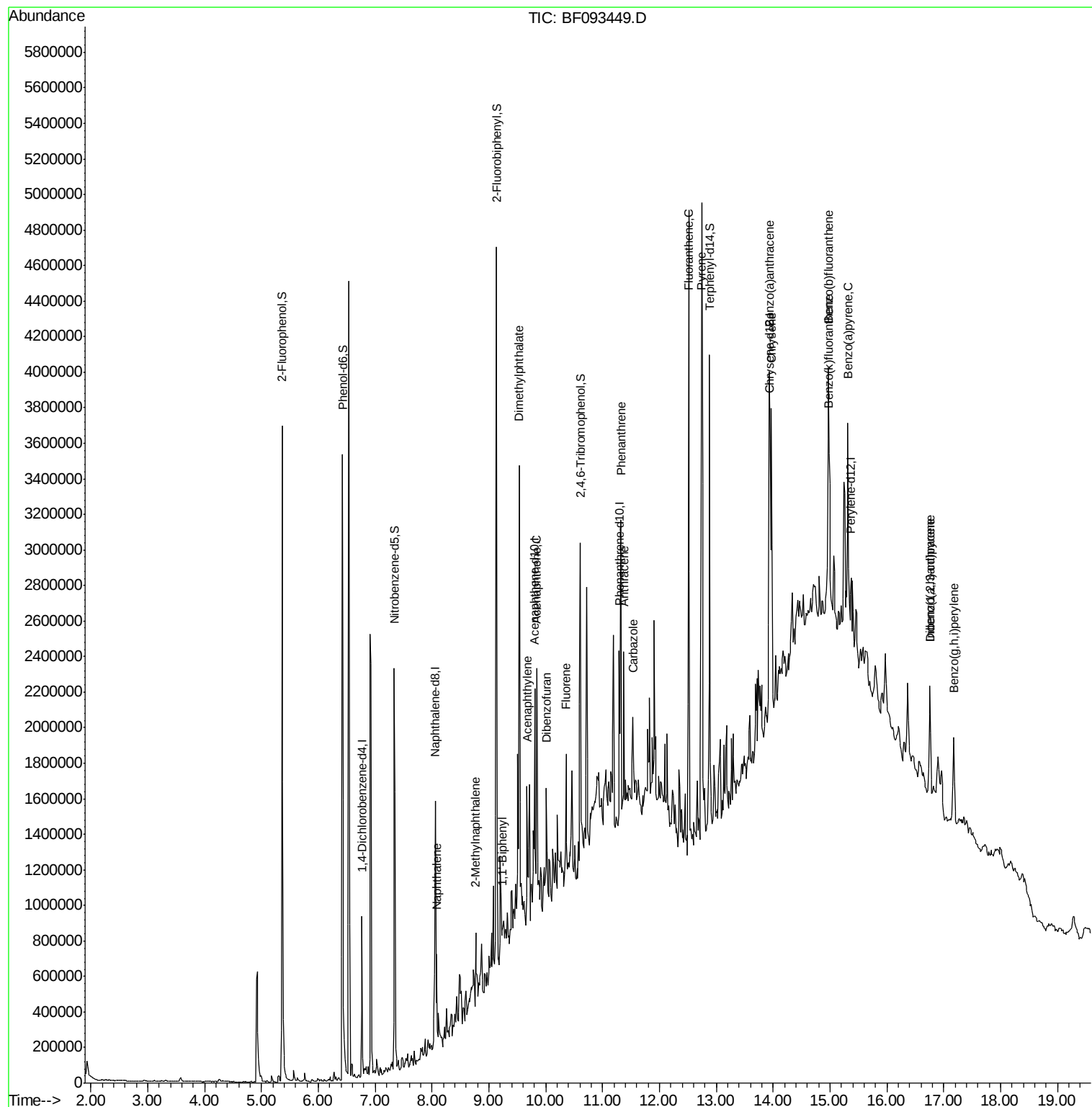
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
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Acq On : 9 Mar 2017 00:45
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Sample : I2133-02
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ALS Vial : 21 Sample Multiplier: 1

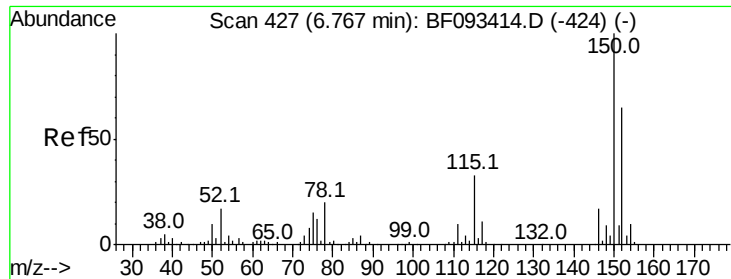
Instrument :
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ClientSampleId :
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QLast Update : Tue Mar 07 15:55:22 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 427

Delta R.T. -0.00 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Instrument :

BNA_F

ClientSampleId :

HY-SB422A

Tot Ion:152 Resp: 159479

Ion Ratio Lower Upper

152 100

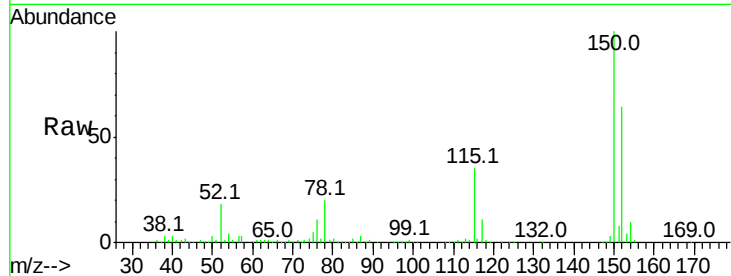
150 156.1 124.9 187.3

115 54.4 46.0 69.0

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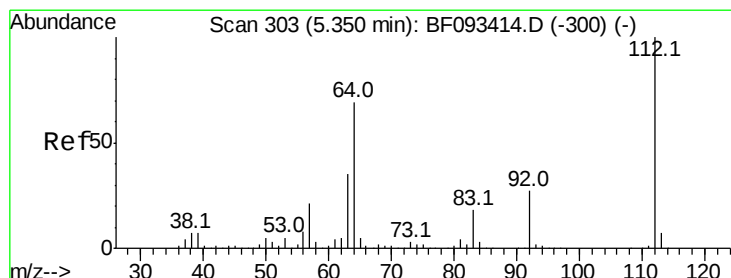
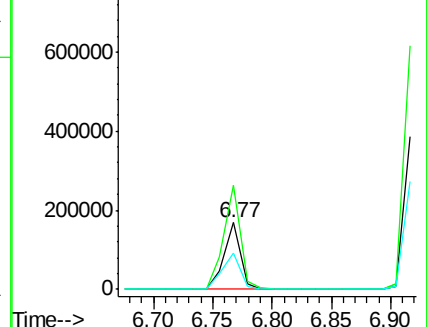
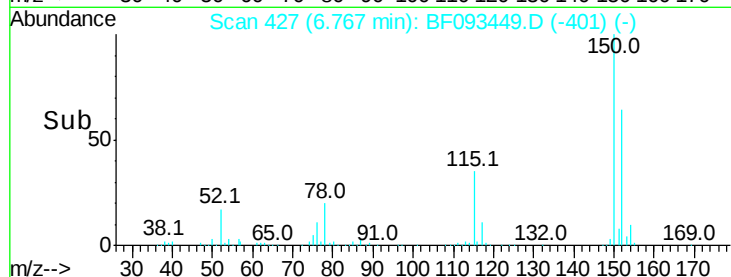
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 131.77 ng

RT: 5.36 min Scan# 304

Delta R.T. 0.01 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

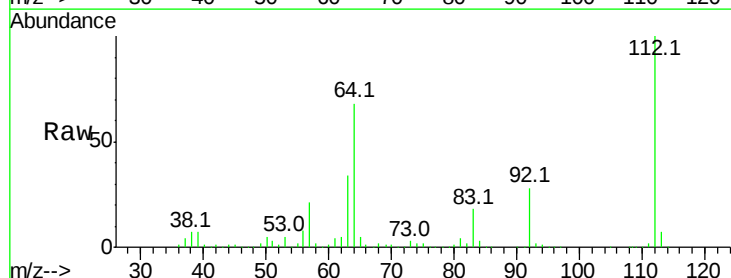
Tgt Ion:112 Resp: 1262652

Ion Ratio Lower Upper

112 100

64 68.1 46.1 69.1

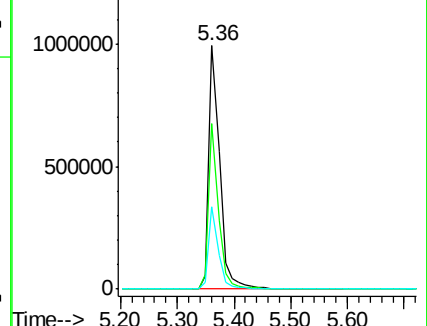
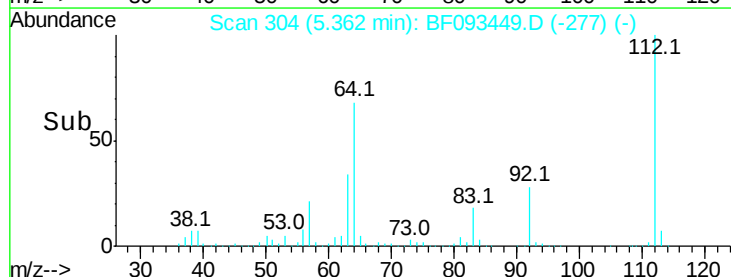
63 33.9 23.8 35.6

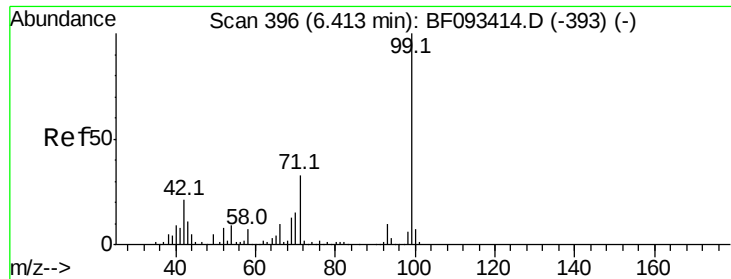


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 137.10 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Instrument :

BNA_F

ClientSampleId :

HY-SB422A

Tot Ion: 99 Resp: 1656640

Ion Ratio Lower Upper

99 100

42 20.3 15.6 23.4

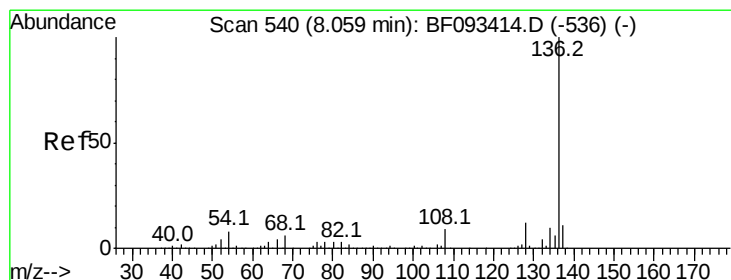
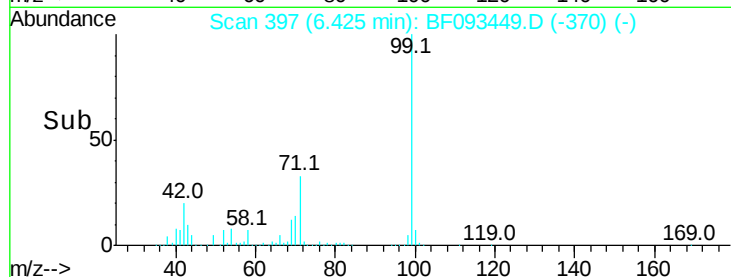
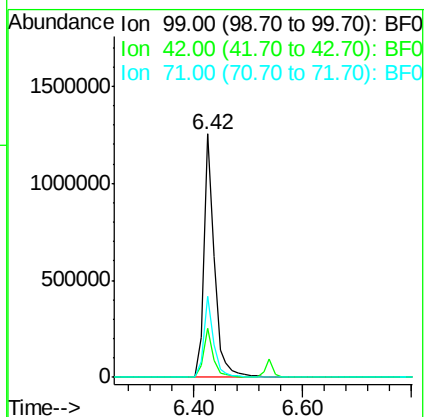
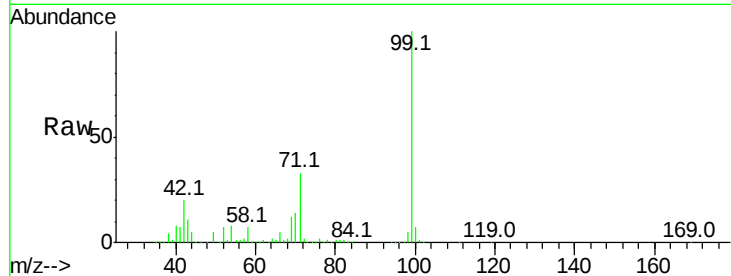
71 33.4 27.5 41.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 540

Delta R.T. 0.00 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Tgt Ion: 136 Resp: 595534

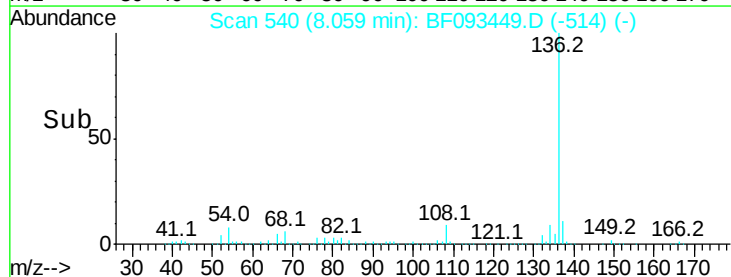
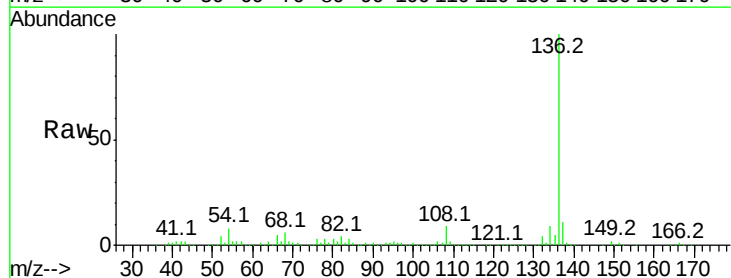
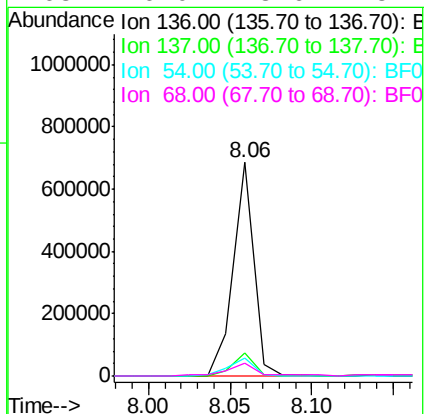
Ion Ratio Lower Upper

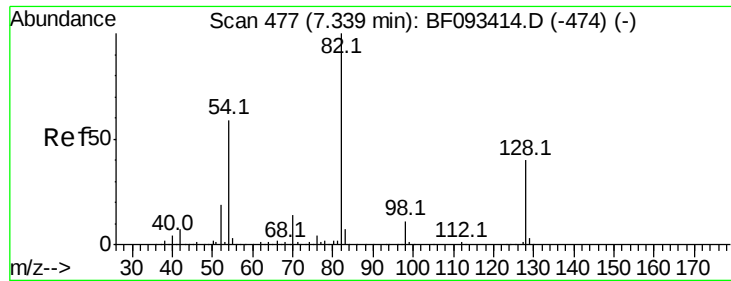
136 100

137 10.8 8.4 12.6

54 8.4 4.5 6.7#

68 6.0 3.6 5.4#





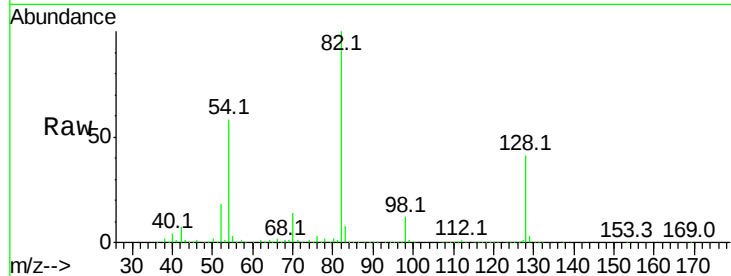
#23
Nitrobenzene-d5
Concen: 92.67 ng
RT: 7.34 min Scan# 477
Delta R.T. -0.00 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Instrument :
BNA_F
ClientSampled :
HY-SB422A

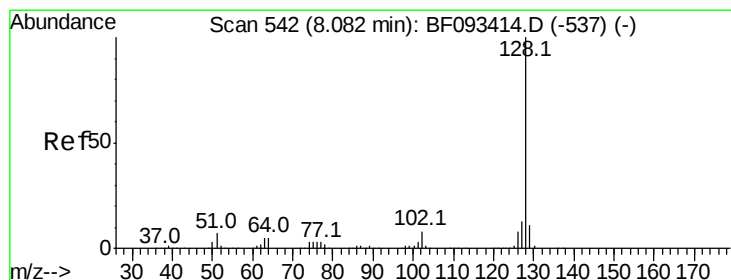
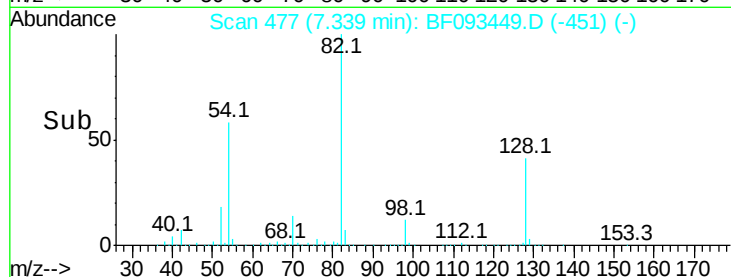
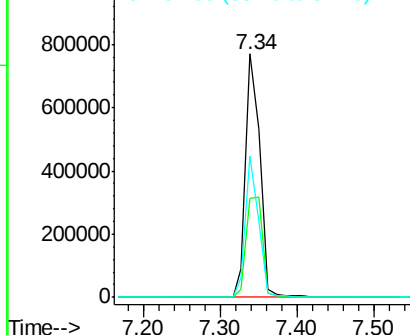
Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	40.6	34.6	52.0	
54	58.3	39.5	59.3	

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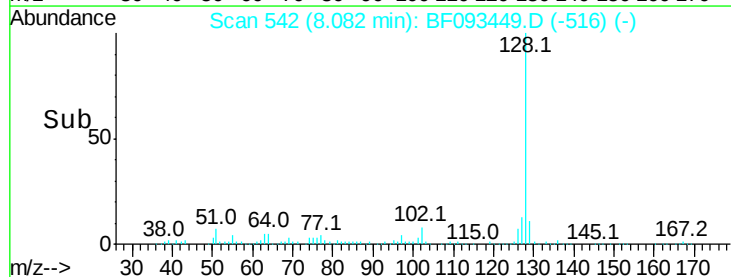
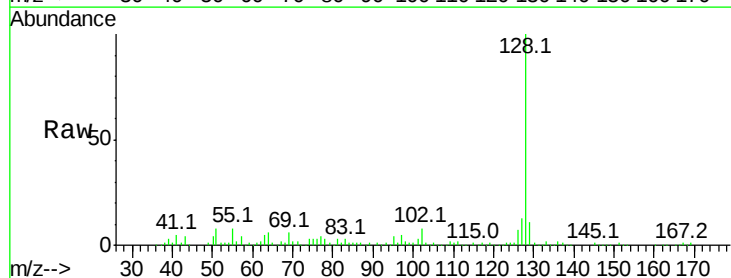
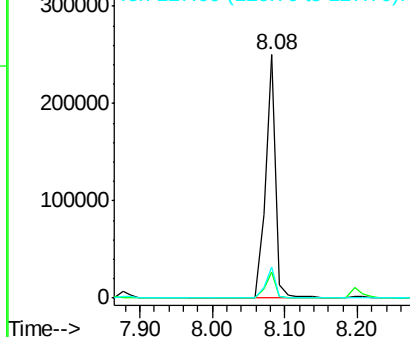
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

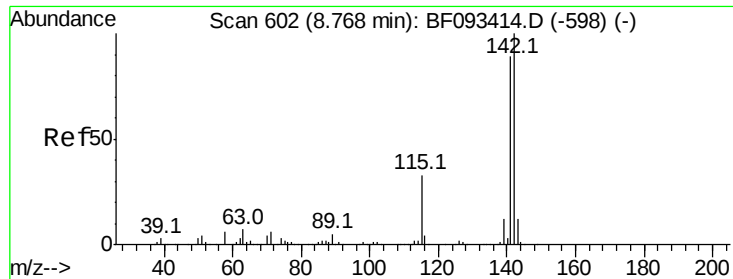


#31
Naphthalene
Concen: 8.32 ng
RT: 8.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.7	9.5	14.3	
127	12.9	10.8	16.2	

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





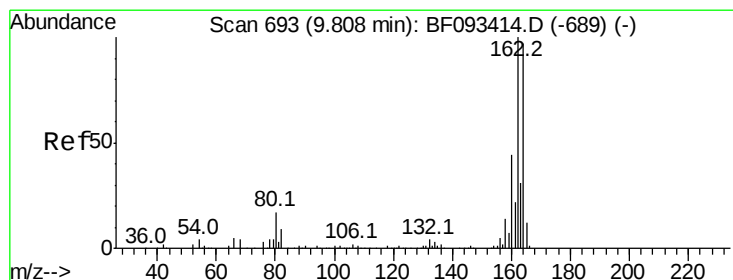
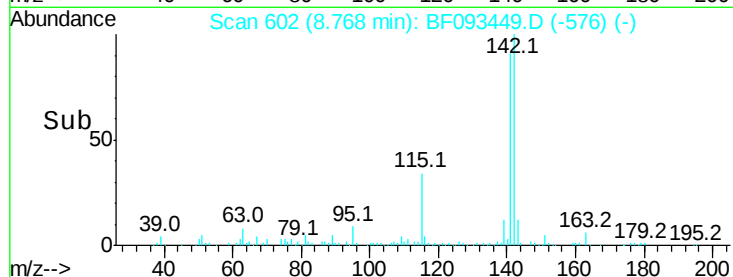
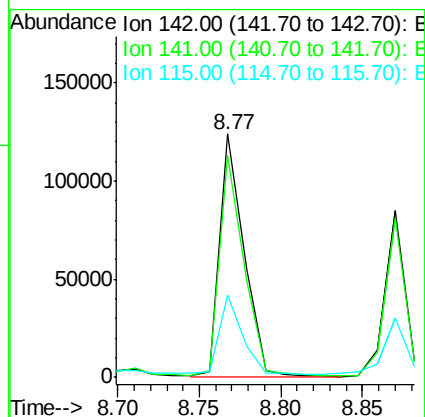
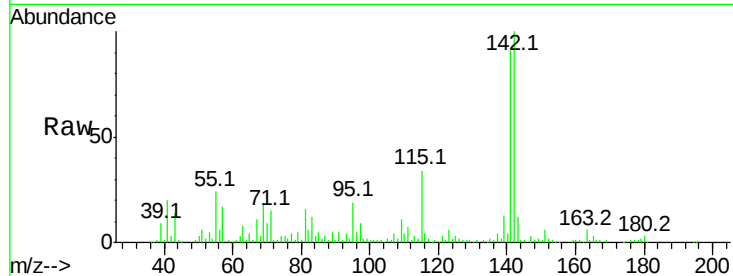
#37
2-Methylnaphthalene
Concen: 6.77 ng
RT: 8.77 min Scan# 602
Delta R.T. -0.00 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Instrument :
BNA_F
ClientSampleId :
HY-SB422A

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.0	106.6
115	34.1	28.3	42.5

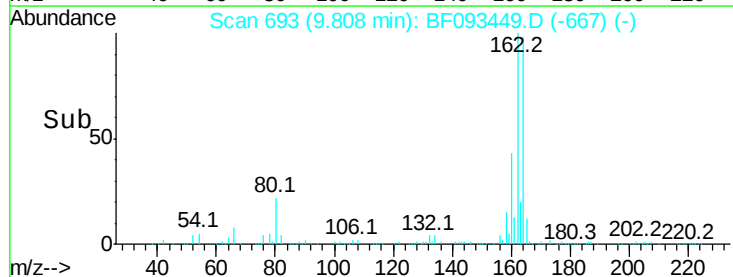
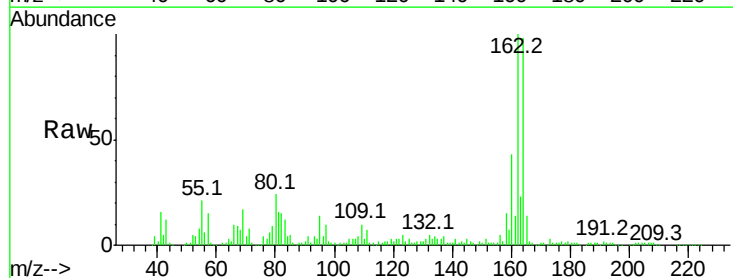
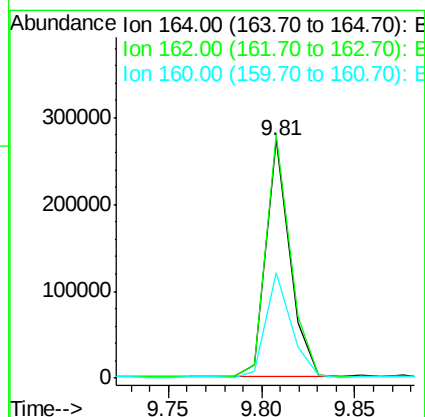
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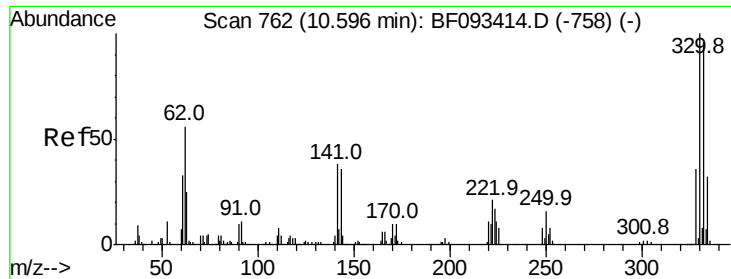
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 693
Delta R.T. -0.00 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.2	120.2
160	44.2	36.9	55.3





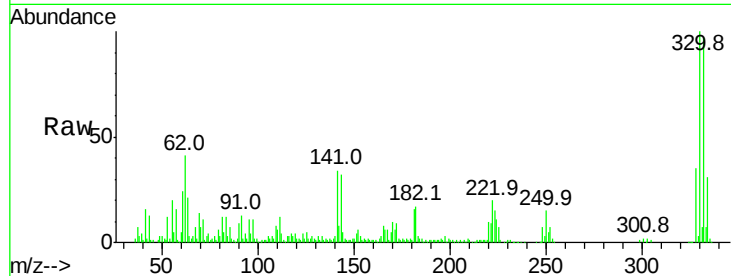
#41
 2,4,6-Tribromophenol
 Concen: 156.51 ng
 RT: 10.61 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: BF093449.D
 Acq: 9 Mar 2017 00:45

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB422A

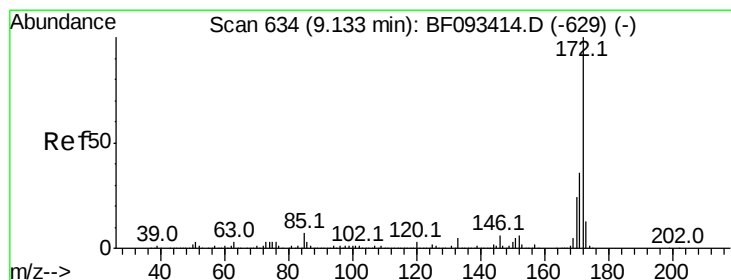
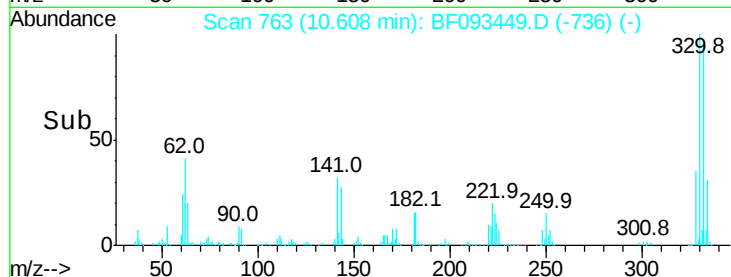
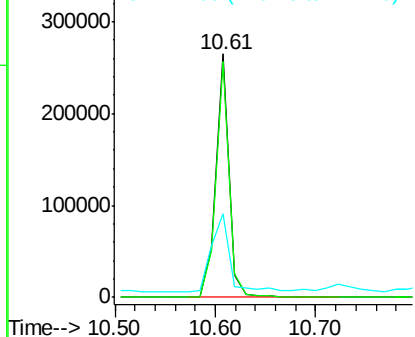
Tot Ion	Ratio	Resp	Lower	Upper
330	100	243956		
332	97.0		77.4	116.2
141	44.4		34.1	51.1

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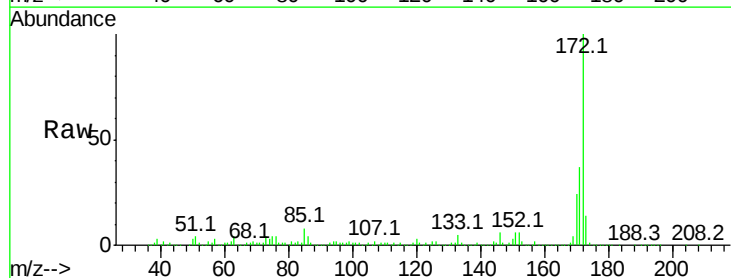


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

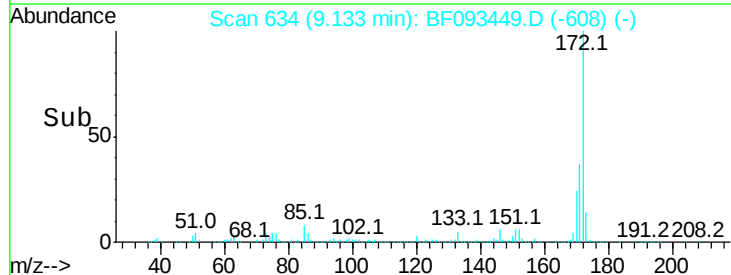
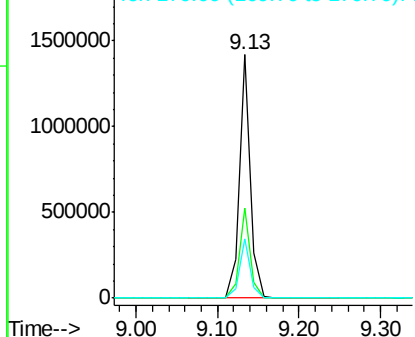


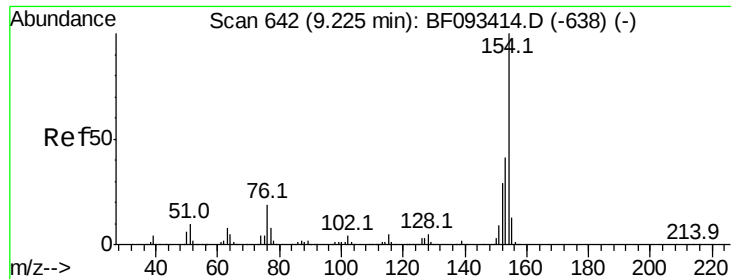
#44
 2-Fluorobiphenyl
 Concen: 103.49 ng
 RT: 9.13 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: BF093449.D
 Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1331091		
171	37.0		29.4	44.0
170	24.4		20.2	30.4



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





#45

1,1'-Biphenyl

Concen: 2.47 ng

RT: 9.24 min Scan# 643

Delta R.T. 0.01 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Instrument :

BNA_F

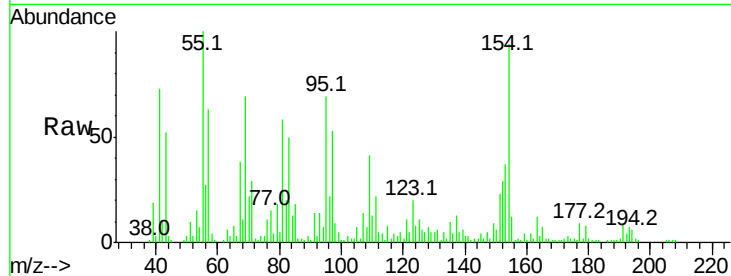
ClientSampleId :

HY-SB422A

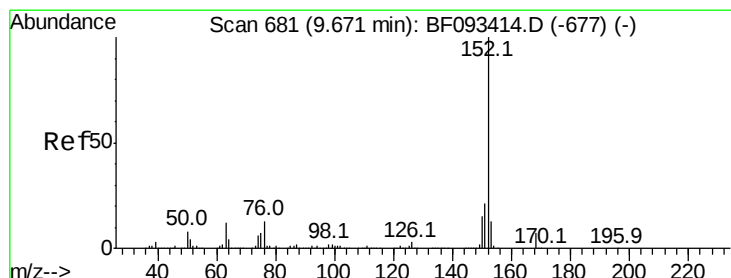
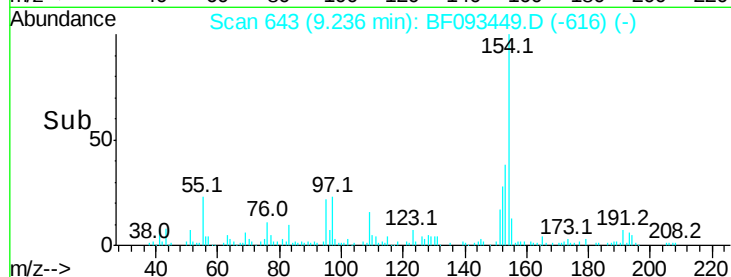
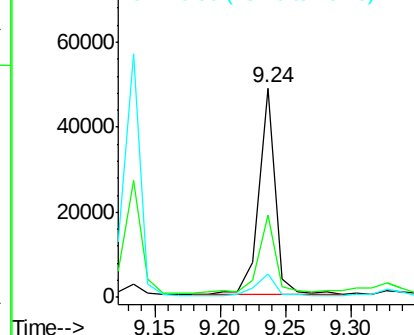
Tot Ion:	154	Resp:	43008
Ion Ratio	Lower	Upper	
154	100		
153	39.5	20.9	60.9
76	11.5	0.0	30.5

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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: 6.80 ng

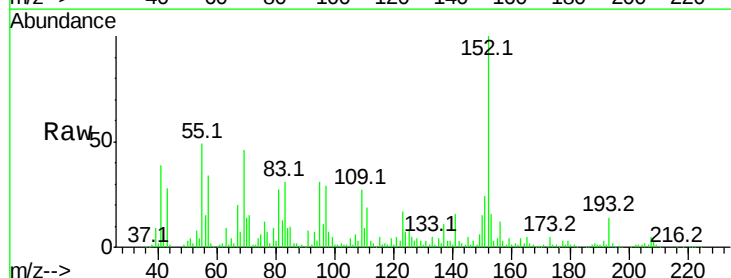
RT: 9.67 min Scan# 681

Delta R.T. 0.00 min

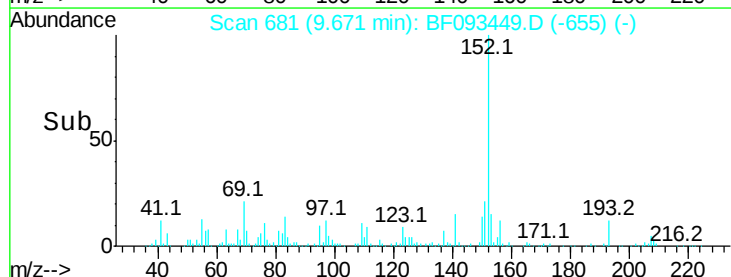
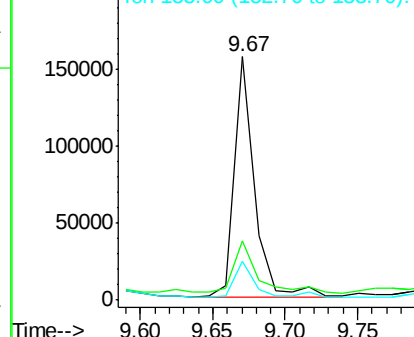
Lab File: BF093449.D

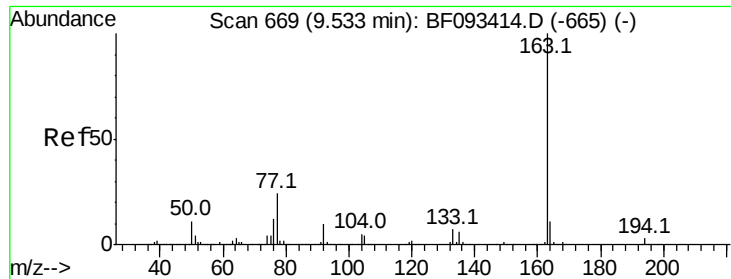
Acq: 9 Mar 2017 00:45

Tgt Ion:	152	Resp:	149672
Ion Ratio	Lower	Upper	
152	100		
151	24.1	16.9	25.3
153	15.8	11.4	17.2



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





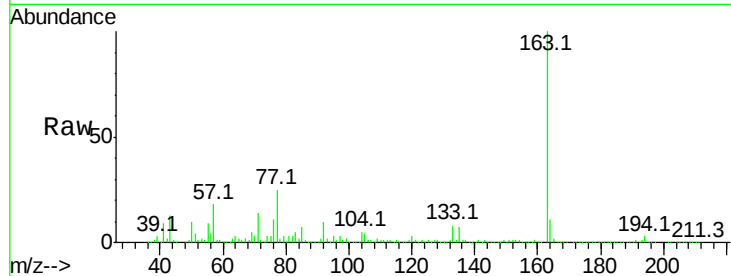
#49
Dimethylphthalate
Concen: 60.81 ng
RT: 9.53 min Scan# 669
Delta R.T. 0.00 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Instrument :
BNA_F
ClientSampleId :
HY-SB422A

Tot Ion	Ratio	Resp	Lower	Upper
163	100	964542		
194	3.4		3.0	4.4
164	10.9		8.0	12.0

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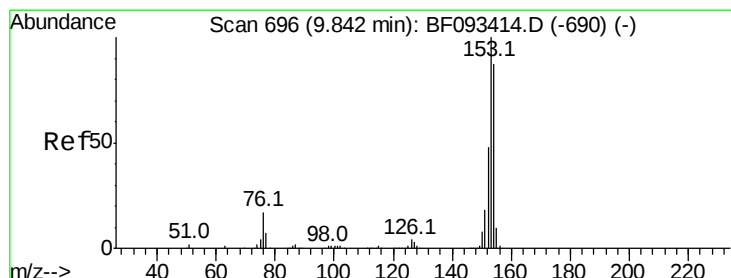
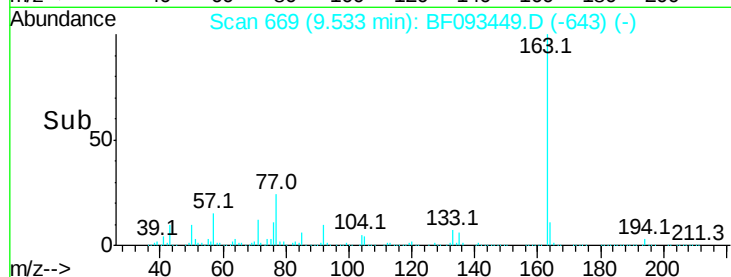
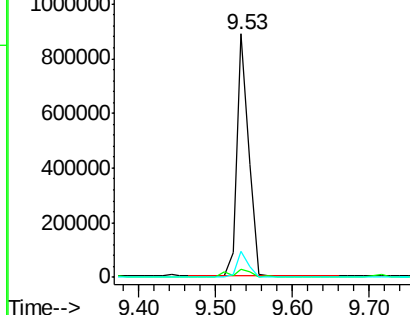


Abundance

Ion 163.00 (162.70 to 163.70): E

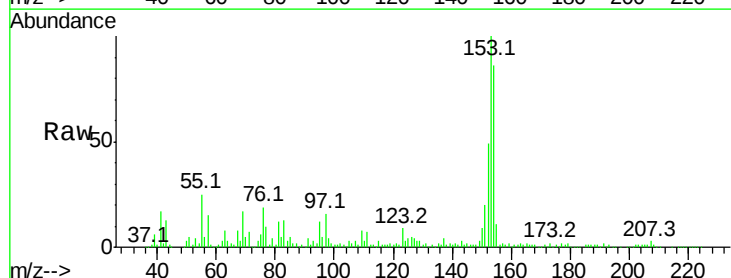
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 17.32 ng
RT: 9.84 min Scan# 696
Delta R.T. 0.00 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	225360		
153	115.8		88.6	133.0
152	57.0		41.6	62.4

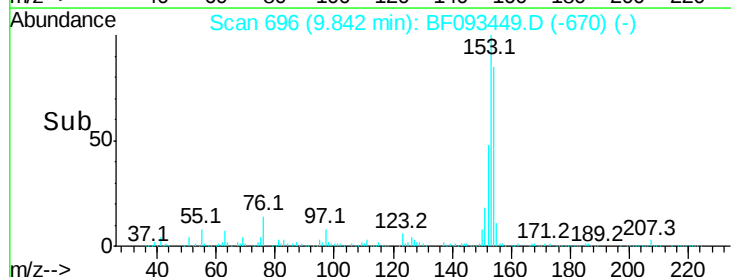
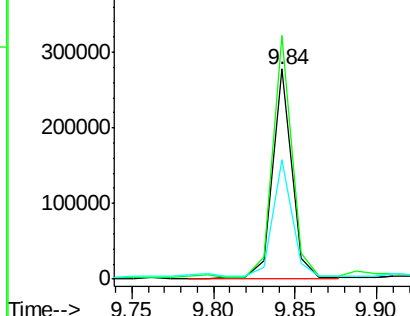


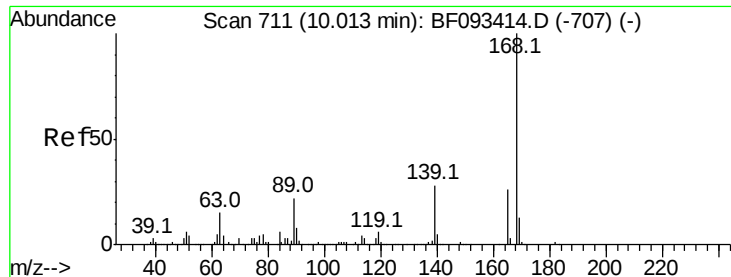
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 14.06 ng

RT: 10.01 min Scan# 711

Delta R.T. -0.00 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Instrument :

BNA_F

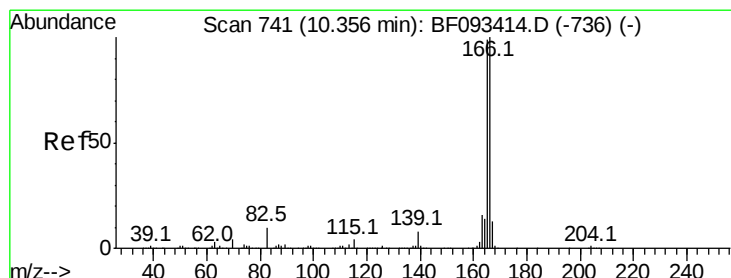
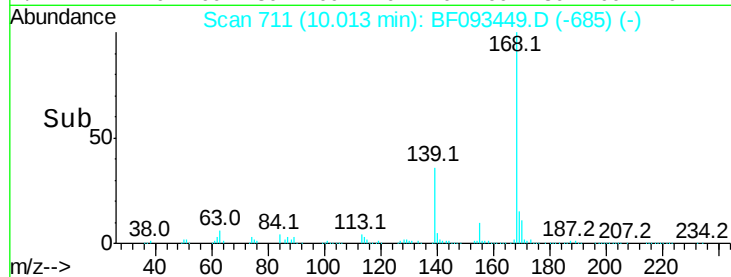
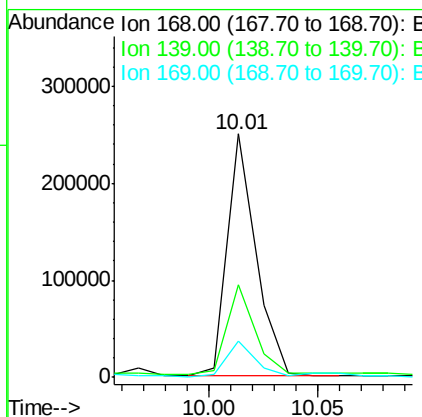
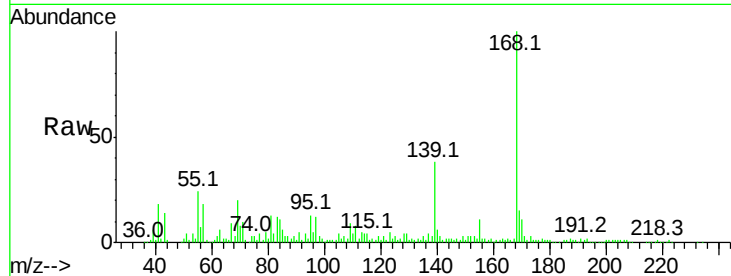
ClientSampleId :

HY-SB422A

Tot Ion:	168	Resp:	229002
Ion Ratio	Lower	Upper	
168	100		
139	37.9	32.6	49.0
169	15.0	11.3	16.9

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#57

Fluorene

Concen: 12.71 ng

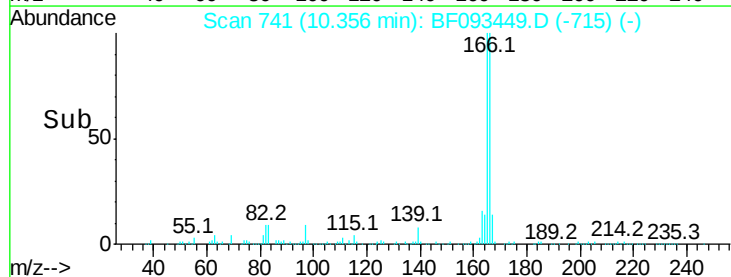
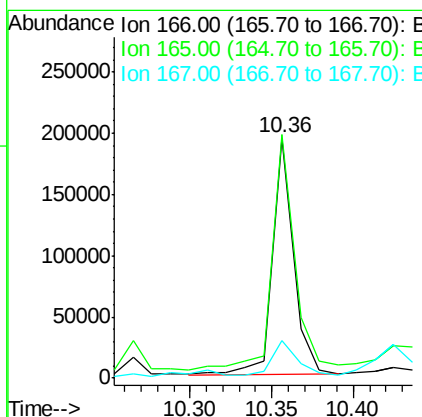
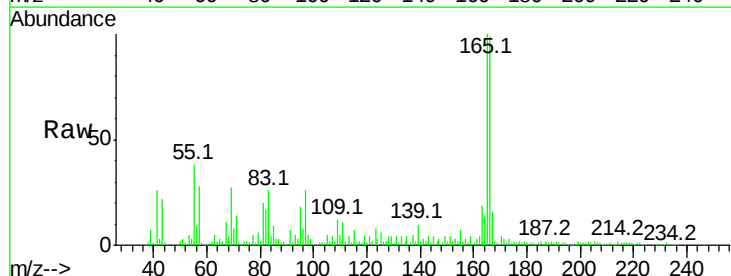
RT: 10.36 min Scan# 741

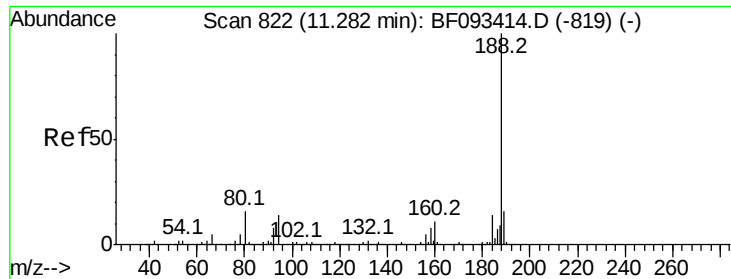
Delta R.T. 0.00 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Tgt Ion:	166	Resp:	175438
Ion Ratio	Lower	Upper	
166	100		
165	101.5	77.8	116.8
167	15.8	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 823

Delta R.T. 0.01 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Instrument :

BNA_F

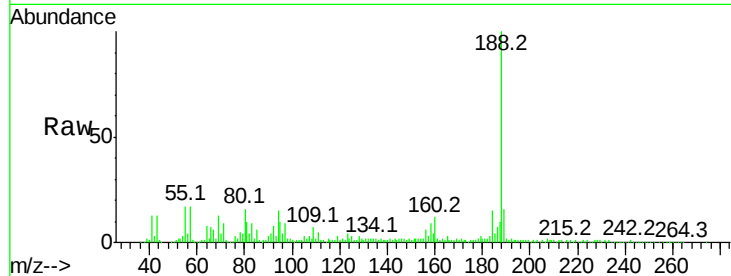
ClientSampleId :

HY-SB422A

Tot Ion	Ratio	Lower	Upper
188	100		
94	15.2	10.0	15.0#
80	16.2	11.2	16.8

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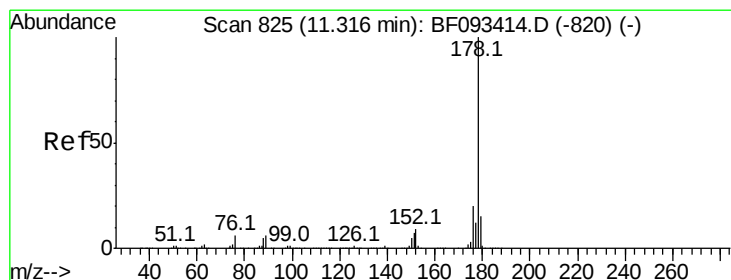
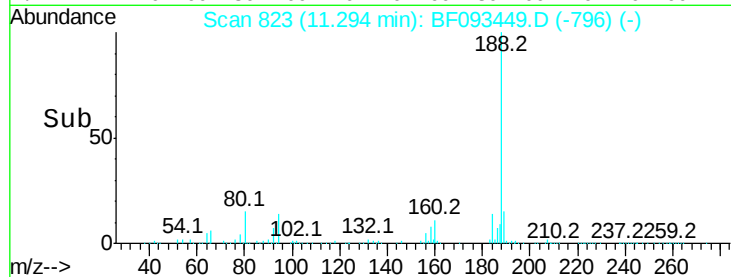
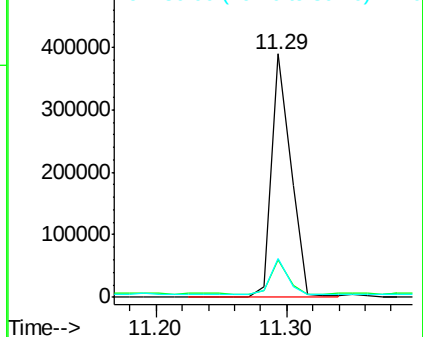
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 47.19 ng

RT: 11.33 min Scan# 826

Delta R.T. 0.01 min

Lab File: BF093449.D

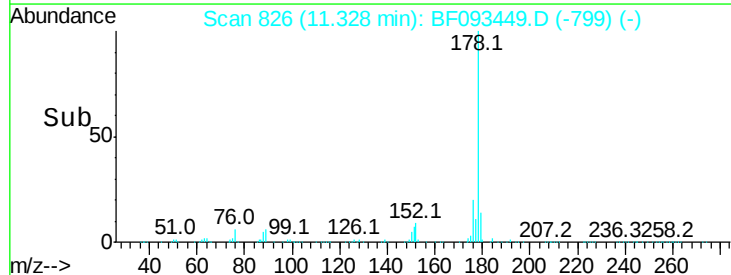
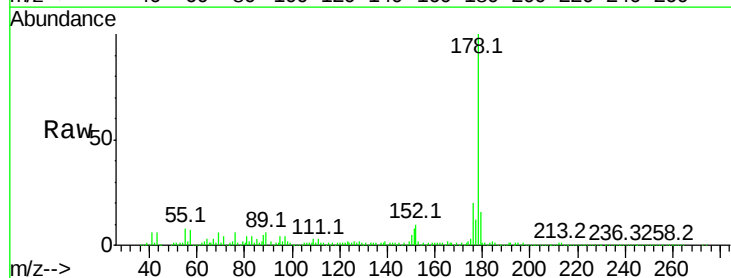
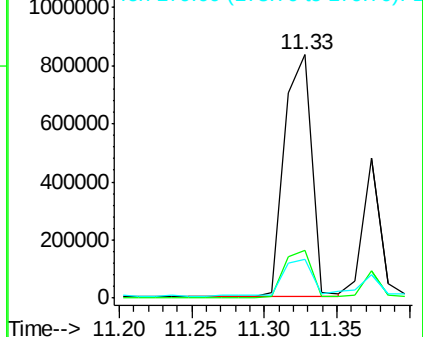
Acq: 9 Mar 2017 00:45

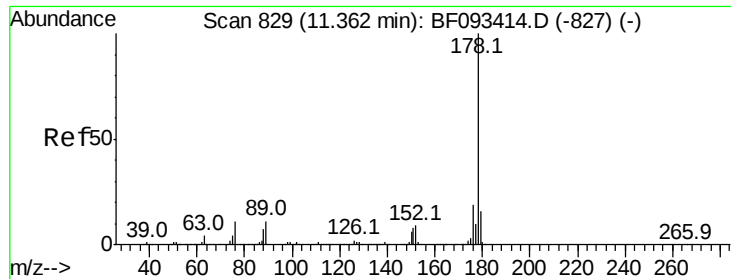
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.6	25.0
179	16.1	12.8	19.2

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





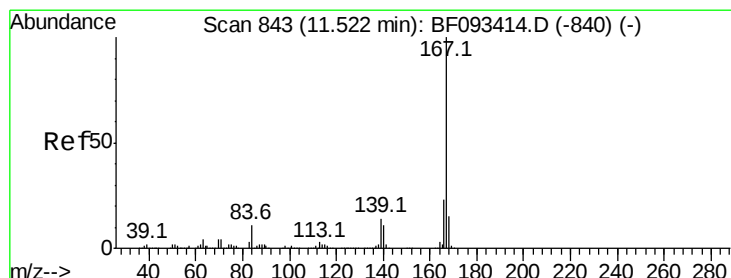
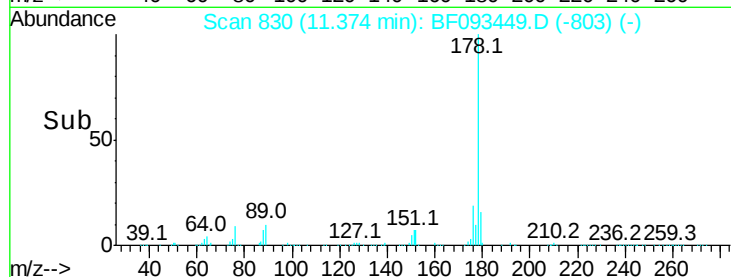
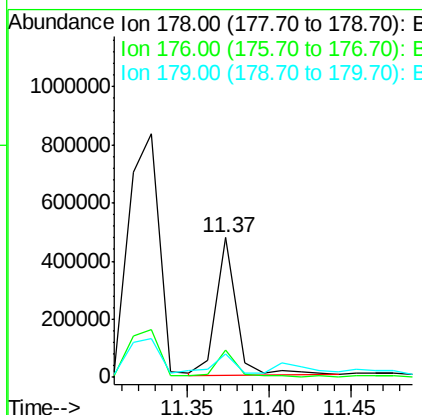
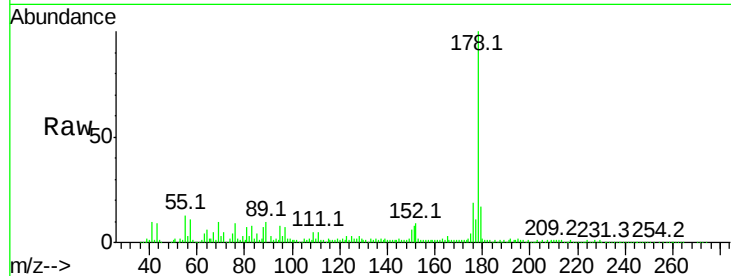
#71
 Anthracene
 Concen: 17.80 ng
 RT: 11.37 min Scan# 830
 Delta R.T. 0.01 min
 Lab File: BF093449.D
 Acq: 9 Mar 2017 00:45

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB422A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	17.0	13.2	19.8

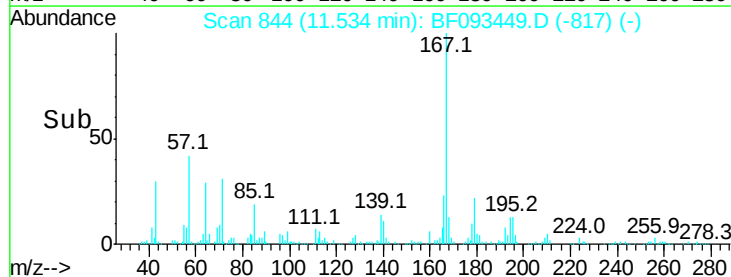
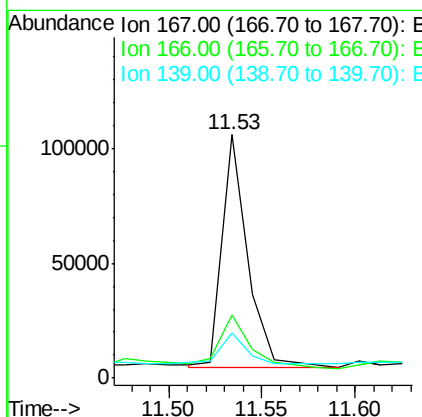
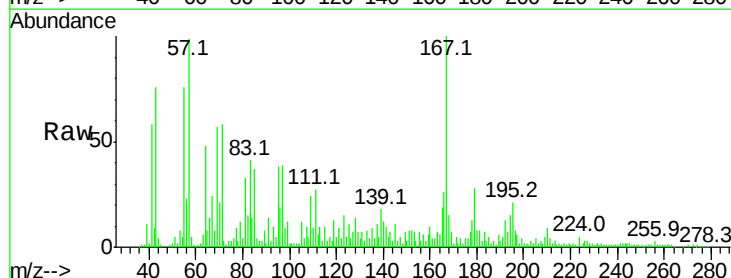
Manual Integrations
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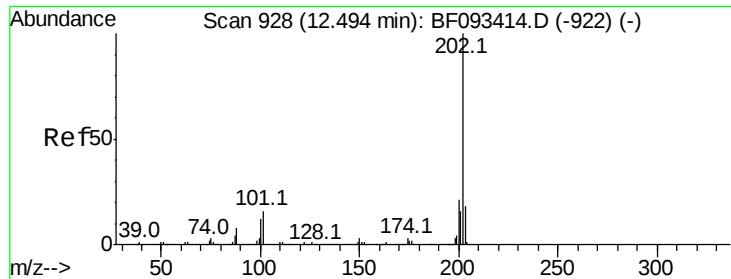
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#72
 Carbazole
 Concen: 4.42 ng
 RT: 11.53 min Scan# 844
 Delta R.T. 0.01 min
 Lab File: BF093449.D
 Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Lower	Upper
167	100		
166	26.0	18.2	27.2
139	18.5	11.4	17.2





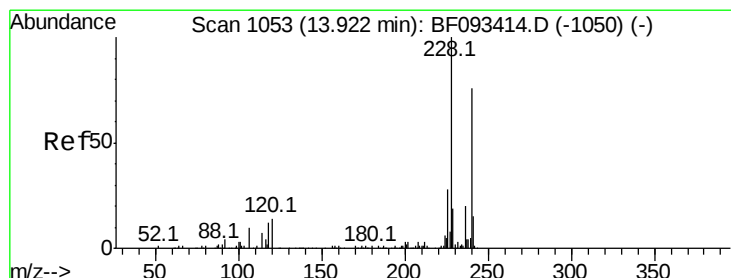
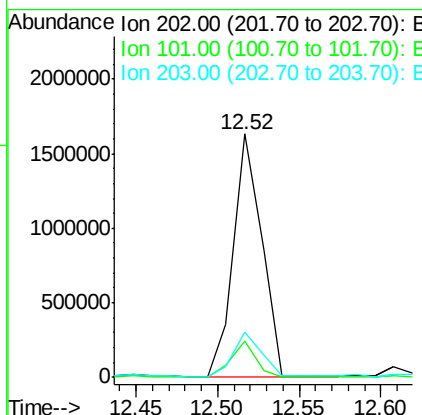
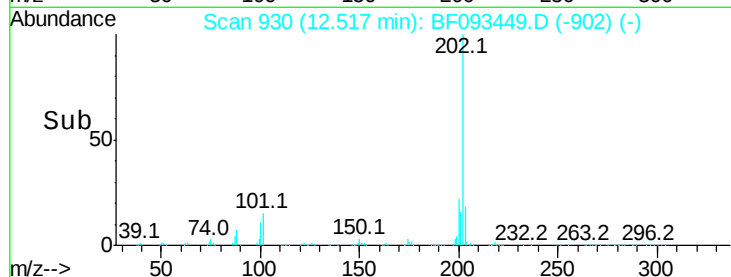
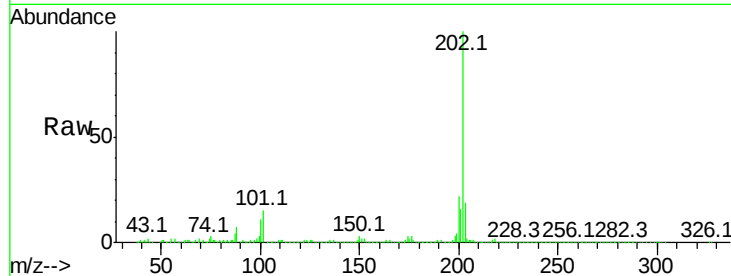
#74
Fluoranthene
Concen: 87.98 ng
RT: 12.52 min Scan# 930
Delta R.T. 0.02 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Instrument :
BNA_F
ClientSampleId :
HY-SB422A

Tot Ion	Ratio	Resp	Lower	Upper
202	100	1956520		
101	14.7		0.0	34.6
203	18.5		0.0	38.7

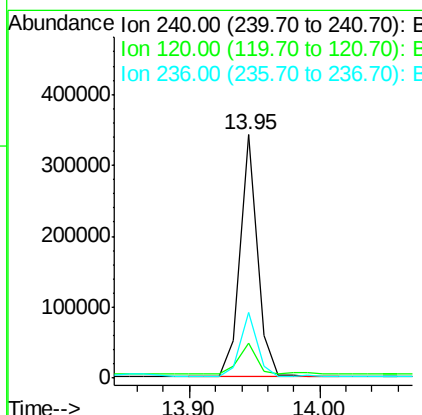
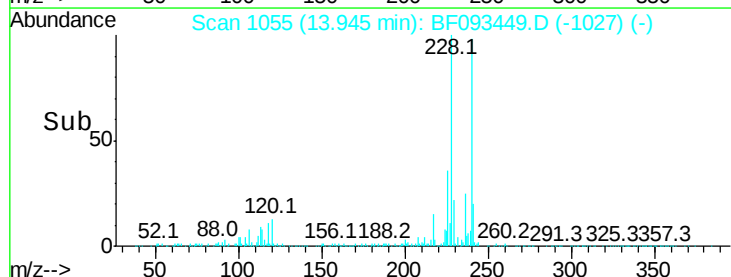
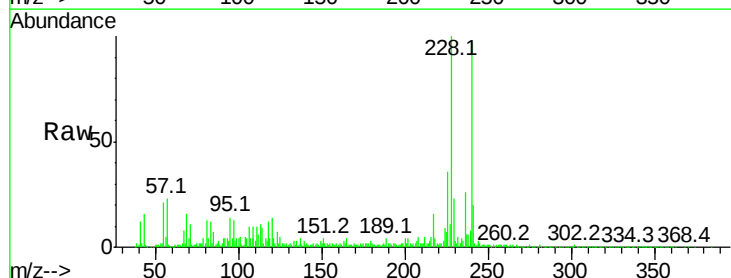
Manual Integrations
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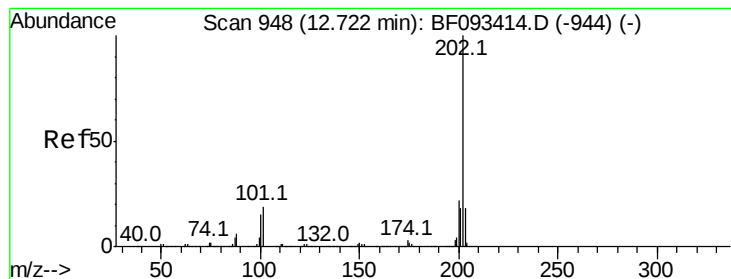
mohammad
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#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.95 min Scan# 1055
Delta R.T. 0.02 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	315024		
120	14.6		12.9	19.3
236	26.8		20.9	31.3





#77

Pvrene

Concen: 95.02 ng

RT: 12.75 min Scan# 950

Delta R.T. 0.02 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Instrument :

BNA_F

ClientSampleId :

HY-SB422A

Tot Ion:202 Resp: 2177116

Ion Ratio Lower Upper

202 100

200 22.3 17.7 26.5

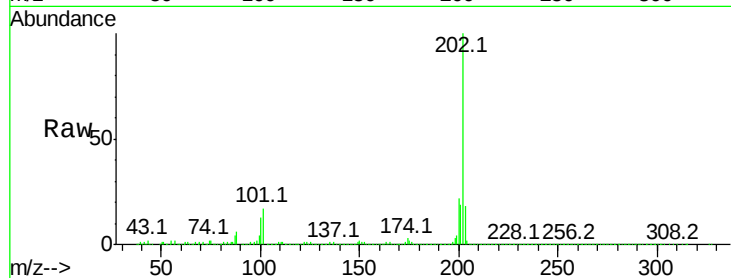
203 18.3 14.7 22.1

Manual Integrations

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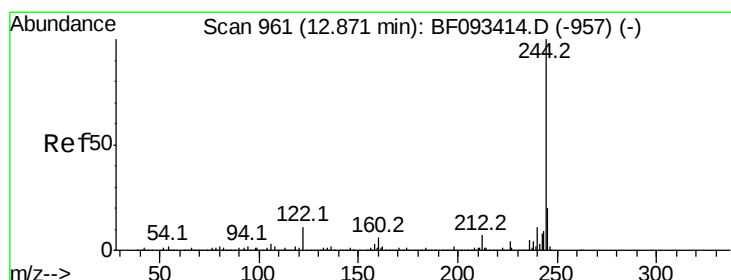
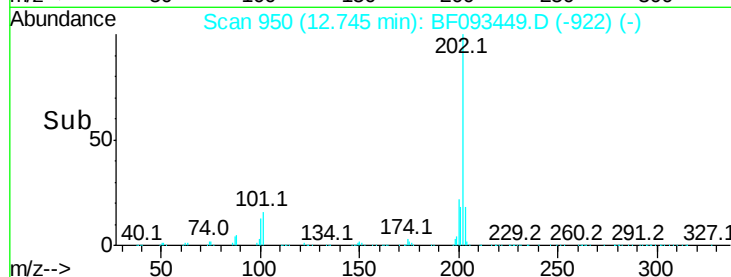
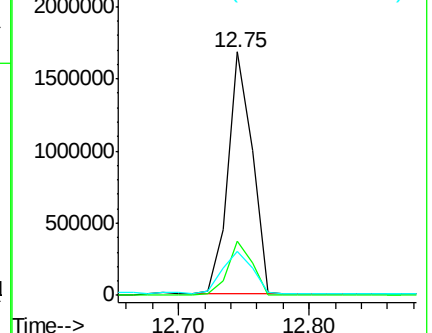
3/10/2017 8:12:23 AM



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: 78.52 ng

RT: 12.88 min Scan# 962

Delta R.T. 0.01 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

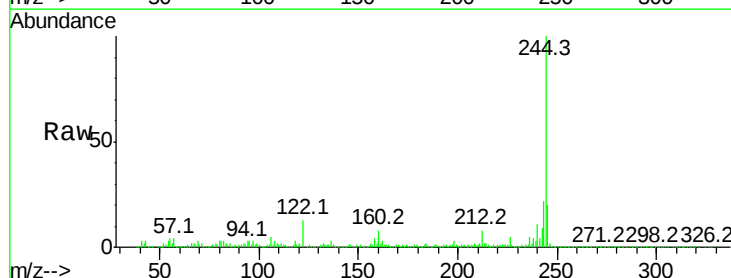
Tgt Ion:244 Resp: 951427

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

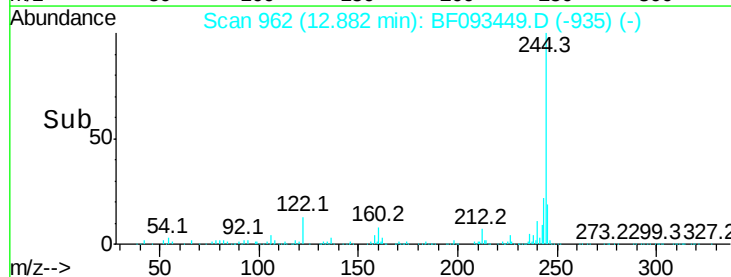
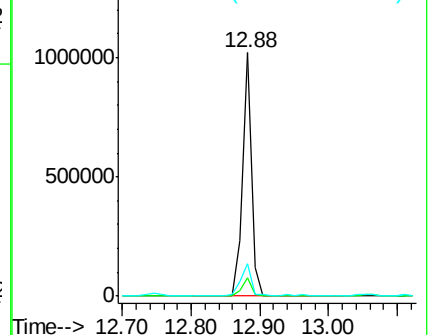
122 13.4 11.4 17.2

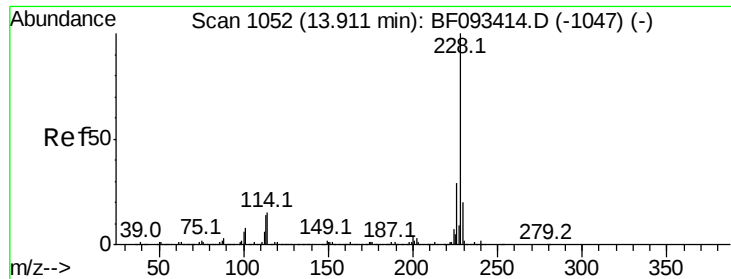


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





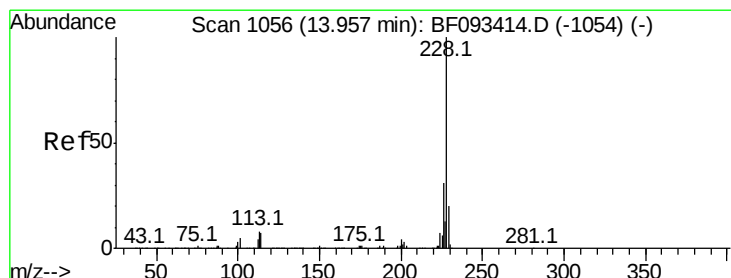
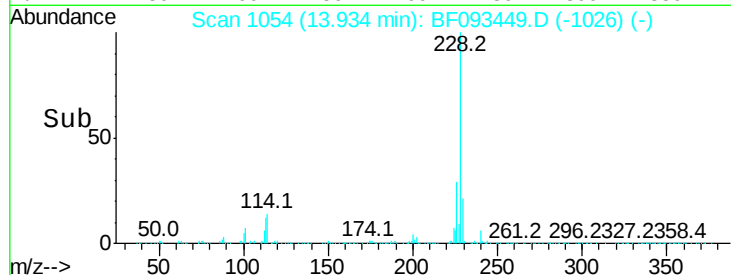
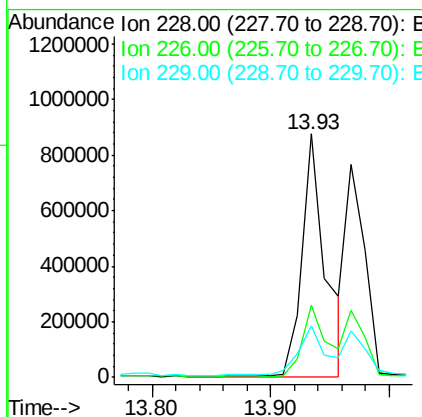
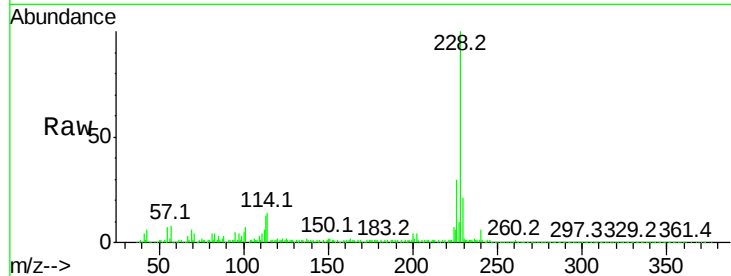
#80
Benzo(a)anthracene
Concen: 64.54 ng
RT: 13.93 min Scan# 1054
Delta R.T. 0.02 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Instrument :
BNA_F
ClientSampleId :
HY-SB422A

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.4	33.6
229	21.3	16.2	24.4

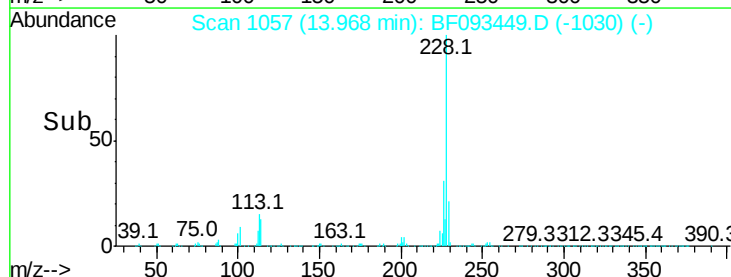
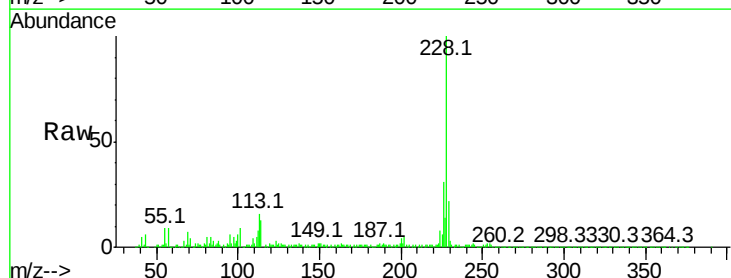
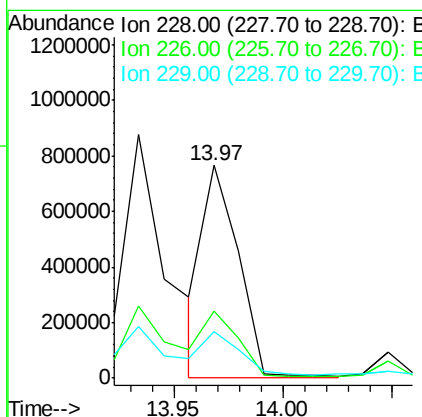
Manual Integrations
APPROVED

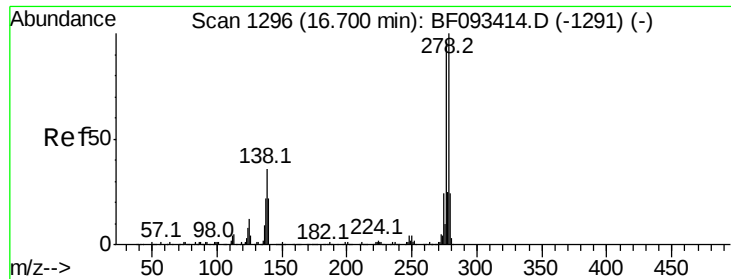
mohammad
3/10/2017 8:12:23 AM



#82
Chrysene
Concen: 49.71 ng
RT: 13.97 min Scan# 1057
Delta R.T. 0.01 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.4	38.0
229	21.6	16.2	24.2





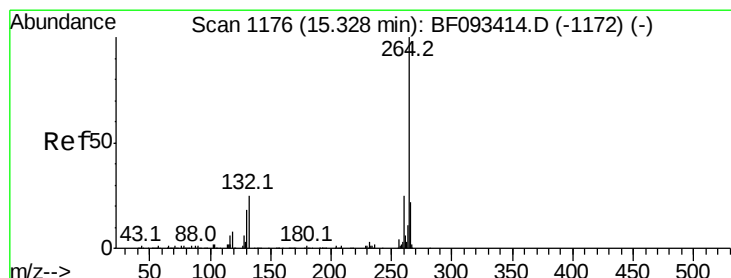
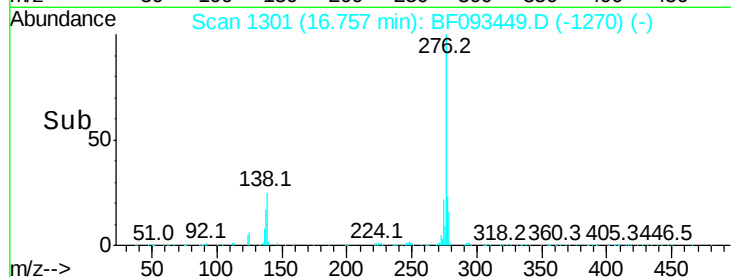
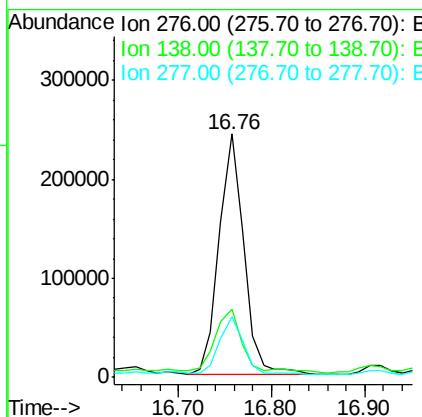
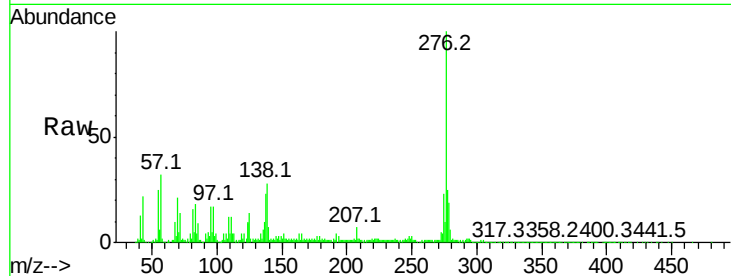
#85
Indeno(1,2,3-cd)pyrene
Concen: 31.29 ng
RT: 16.76 min Scan# 1301
Delta R.T. 0.06 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Instrument :
BNA_F
ClientSampleId :
HY-SB422A

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.8	21.8	32.6
277	23.5	20.2	30.4

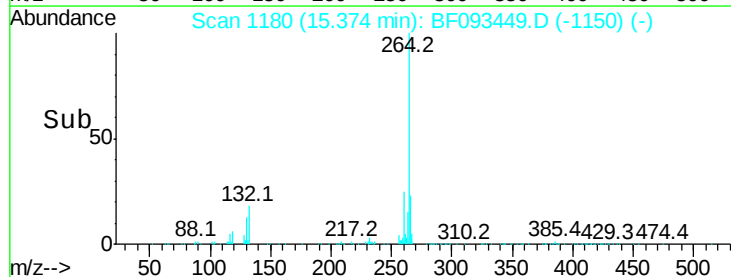
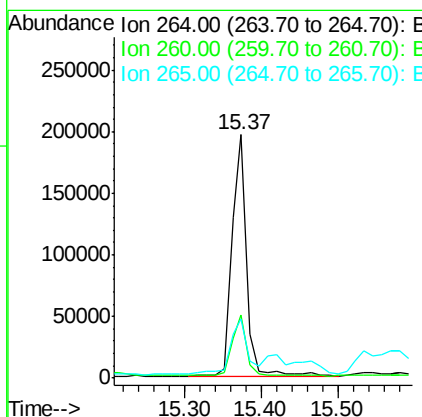
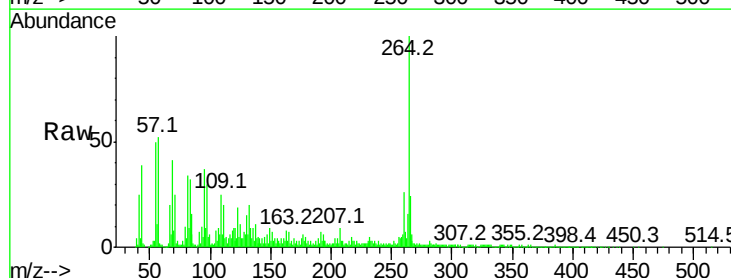
Manual Integrations
APPROVED

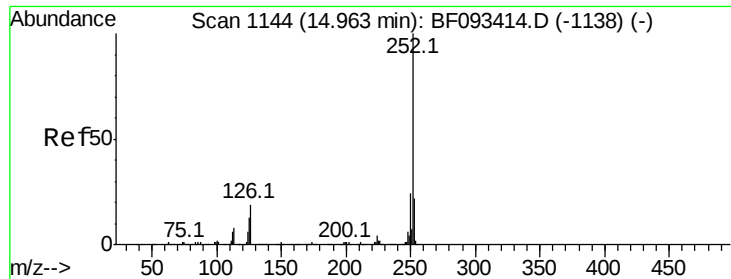
mohammad
3/10/2017 8:12:23 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1180
Delta R.T. 0.05 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.9	19.2	28.8
265	24.5	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 71.54 ng m

RT: 14.97 min Scan# 1145

Delta R.T. 0.03 min

Lab File: BF093449.D

Acq: 9 Mar 2017 00:45

Instrument :

BNA_F

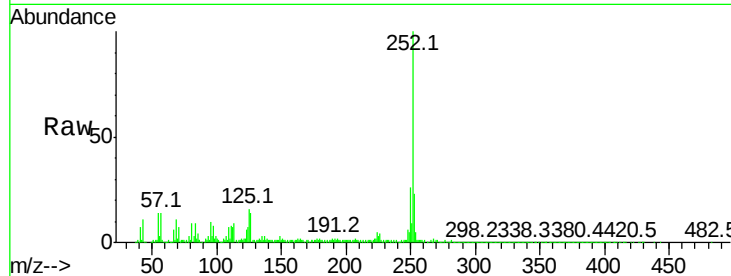
ClientSampleId :

HY-SB422A

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	15.7	9.8	14.6

Manual Integrations
APPROVED

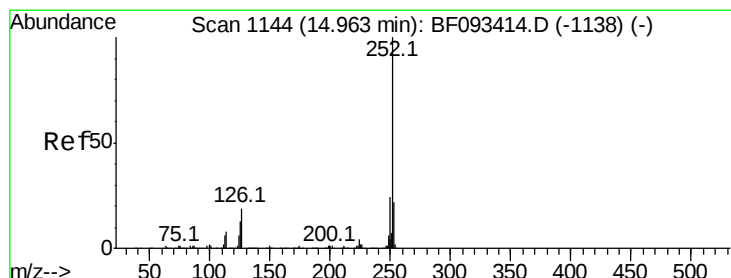
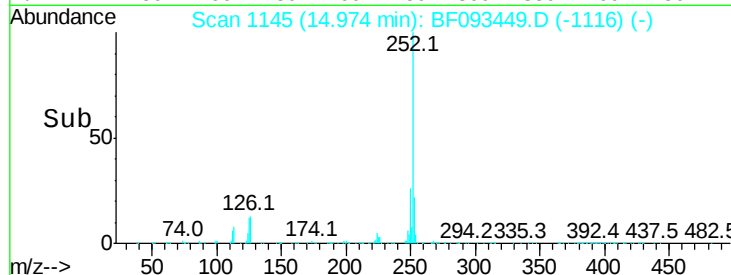
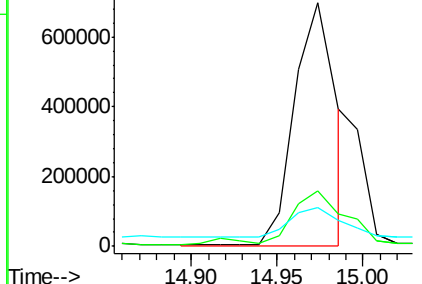
mohammad
3/10/2017 8:12:23 AM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 16.80 ng m

RT: 14.99 min Scan# 1146

Delta R.T. 0.02 min

Lab File: BF093449.D

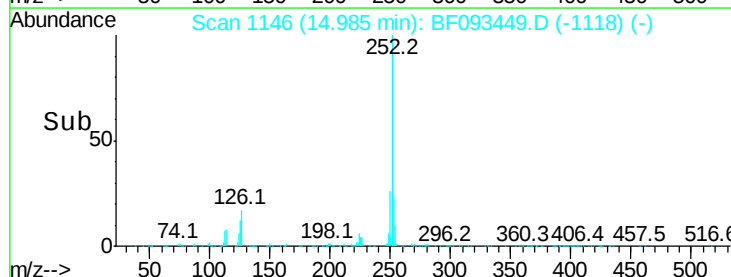
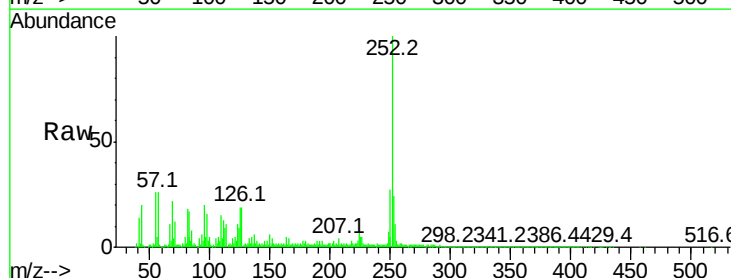
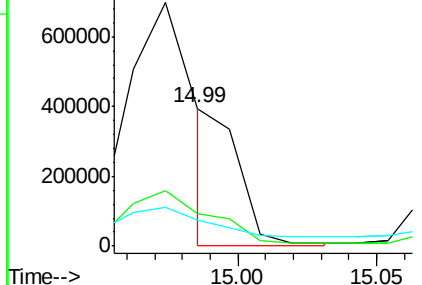
Acq: 9 Mar 2017 00:45

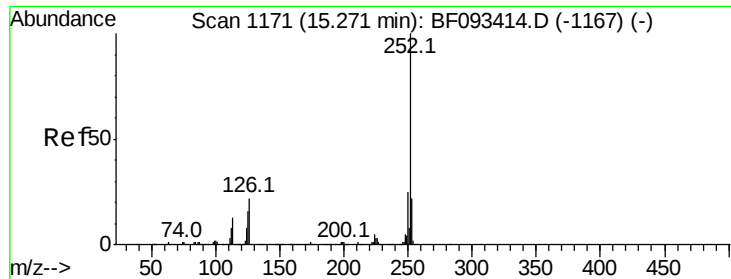
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.5	27.7
125	19.2	8.9	13.3

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





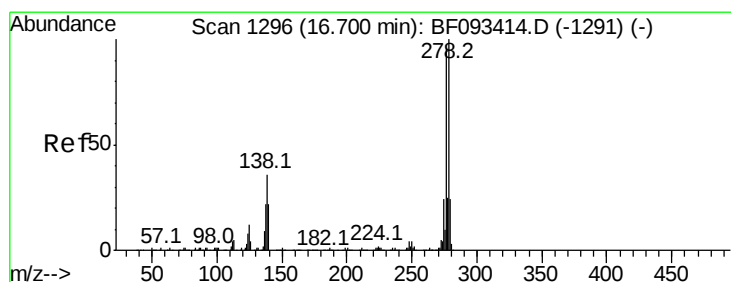
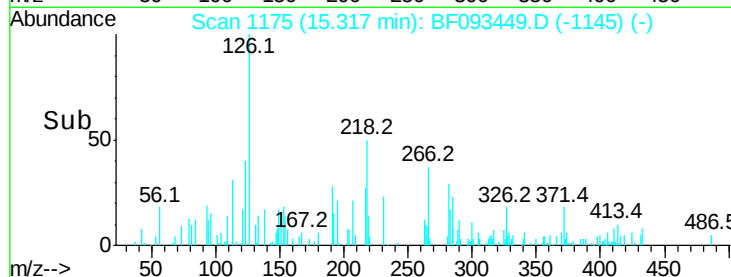
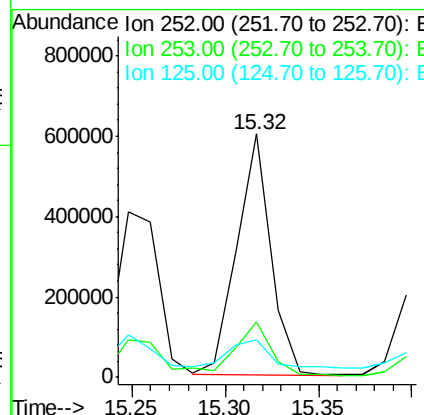
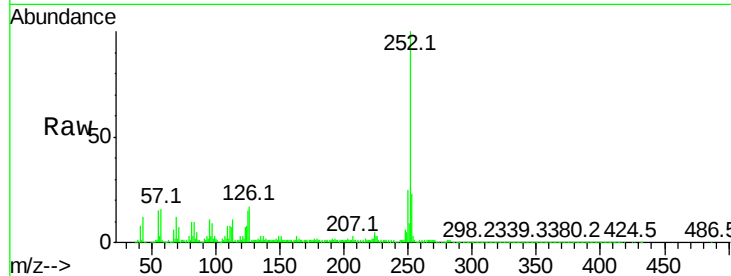
#89
Benzo(a)pyrene
Concen: 50.55 ng
RT: 15.32 min Scan# 1175
Delta R.T. 0.05 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Instrument :
BNA_F
ClientSampleId :
HY-SB422A

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	15.5	10.0	15.0#

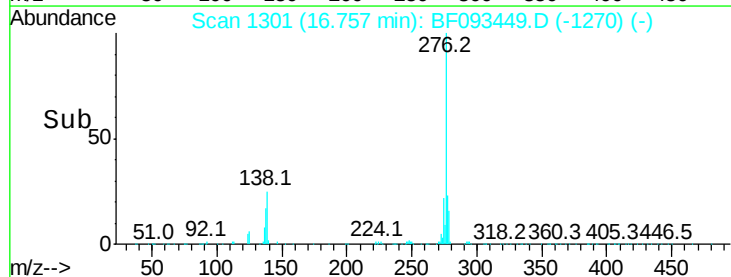
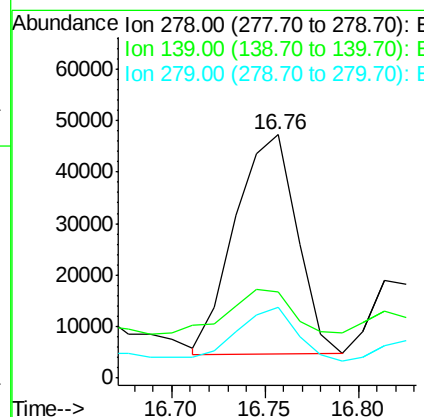
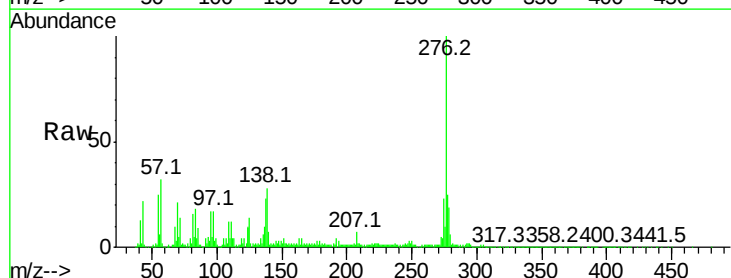
Manual Integrations
APPROVED

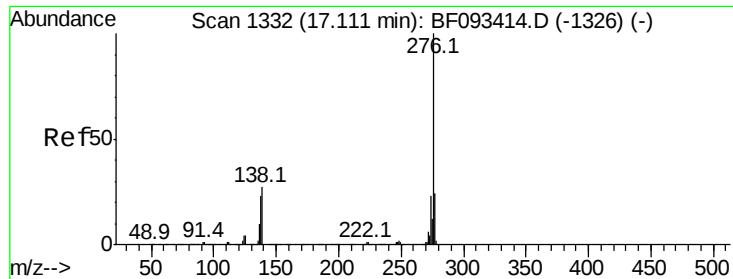
mohammad
3/10/2017 8:12:23 AM



#90
Dibenzo(a,h)anthracene
Concen: 7.84 ng
RT: 16.76 min Scan# 1301
Delta R.T. 0.06 min
Lab File: BF093449.D
Acq: 9 Mar 2017 00:45

Tgt Ion	Ratio	Lower	Upper
278	100		
139	35.3	14.8	22.2#
279	29.3	19.8	29.6





#91
 Benzo(a,h,i)perylene
 Concen: 36.50 ng
 RT: 17.18 min Scan# 1338
 Delta R.T. 0.07 min
 Lab File: BF093449.D
 Acq: 9 Mar 2017 00:45

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB422A

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	29.3	16.0	24.0

Manual Integrations
 APPROVED

mohammad
 3/10/2017 8:12:23 AM

