

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093922.D
 Acq On : 24 Mar 2017 22:30
 Operator : SJ/MA
 Sample : I2367-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSW

Manual Integrations
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 3/27/2017 12:56:23 PM

Quant Time: Mar 27 06:40:41 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.96	152	183240	20.00	ng	-0.03
21) Naphthalene-d8	7.46	136	727637	20.00	ng	-0.03
38) Acenaphthene-d10	9.60	164	315650	20.00	ng	-0.04
63) Phenanthrene-d10	11.43	188	521536	20.00	ng	-0.03
75) Chrysene-d12	14.69	240	300089	20.00	ng	-0.02
86) Perylene-d12	16.33	264	301814	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1183265	109.07	ng	0.00
7) Phenol-d6	5.56	99	1553070	115.72	ng	-0.01
23) Nitrobenzene-d5	6.61	82	982602	77.07	ng	-0.03
41) 2,4,6-Tribromophenol	10.58	330	278581	111.69	ng	-0.03
44) 2-Fluorobiphenyl	8.79	172	1572716	76.00	ng	-0.04
78) Terphenyl-d14	13.41	244	930754	69.52	ng	-0.03

Target Compounds				Qvalue		
10) Phenol	5.57	94	66611	4.36	ng	95
31) Naphthalene	7.49	128	158961	4.54	ng	99
37) 2-Methylnaphthalene	8.33	142	59391	2.55	ng	99
48) Acenaphthylene	9.43	152	401821	12.13	ng	99
49) Dimethylphthalate	9.28	163	282841	12.61	ng	99
51) Acenaphthene	9.65	154	83724	4.33	ng	98
54) Dibenzofuran	9.86	168	114930	4.37	ng	96
57) Fluorene	10.27	166	140960	6.46	ng	99
70) Phenanthrene	11.47	178	1791335	61.74	ng	100
71) Anthracene	11.52	178	544207	18.22	ng	98
72) Carbazole	11.72	167	226337	7.39	ng	96
74) Fluoranthene	12.94	202	2532486	85.25	ng	99
77) Pyrene	13.22	202	2242865	102.99	ng	99
80) Benzo(a)anthracene	14.68	228	1217201	69.56	ng	95
82) Chrysene	14.73	228	1171287	72.13	ng	98
83) Bis(2-ethylhexyl)phthalate	14.73	149	34415	2.72	ng	100
85) Indeno(1,2,3-cd)pyrene	17.72	276	688317	48.94	ng	96
87) Benzo(b)fluoranthene	15.93	252	1591794m	86.04	ng	
88) Benzo(k)fluoranthene	15.95	252	619165m	34.21	ng	
89) Benzo(a)pyrene	16.28	252	1078515	63.31	ng	98
90) Dibenzo(a,h)anthracene	17.73	278	190045	13.17	ng	94
91) Benzo(g,h,i)perylene	18.13	276	654560	45.02	ng	99

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

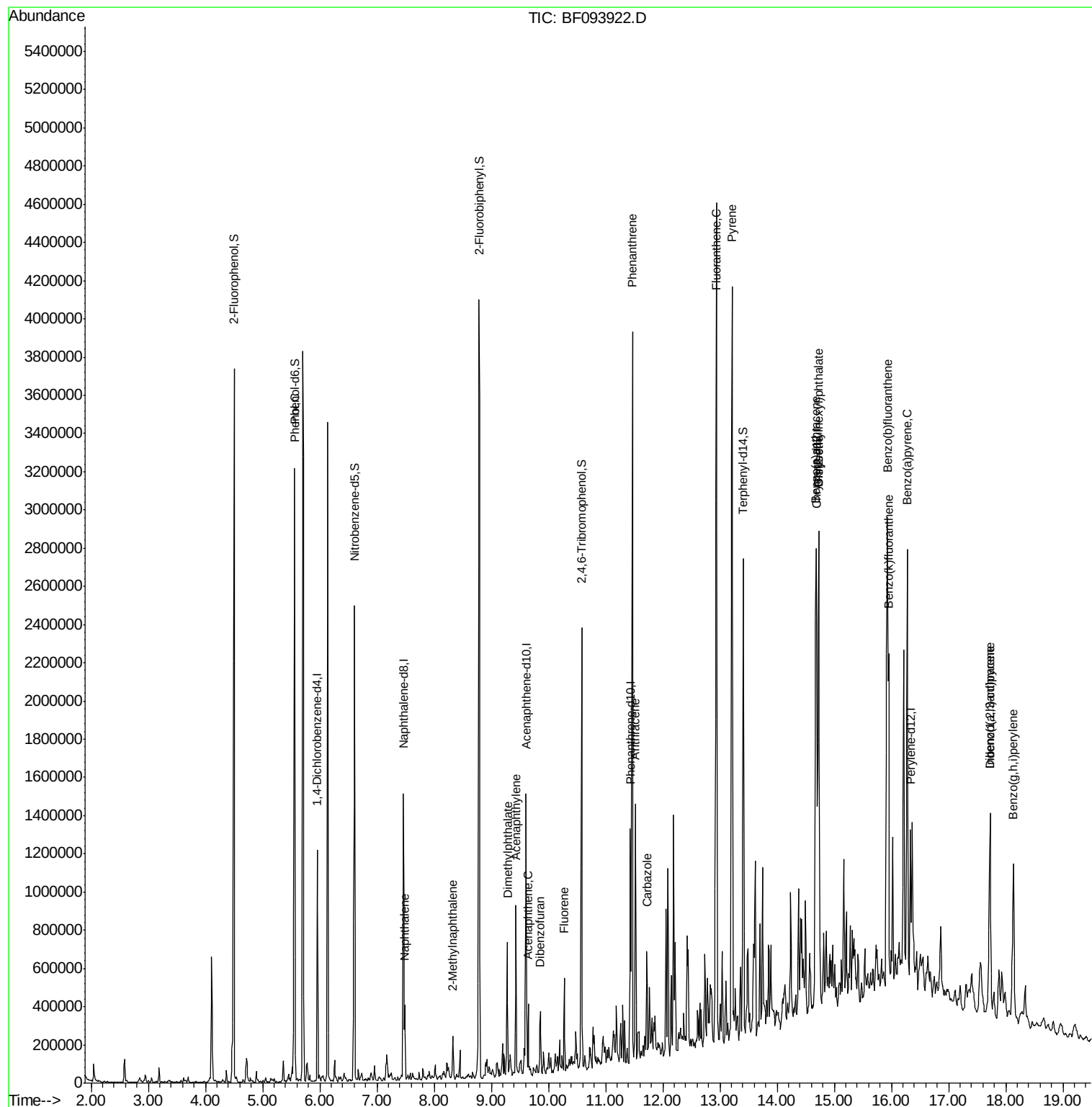
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
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ALS Vial : 12 Sample Multiplier: 1

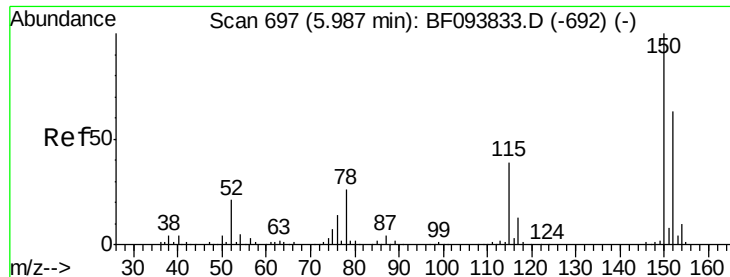
Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

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#1

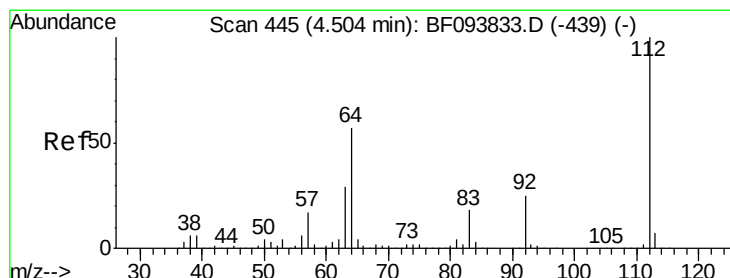
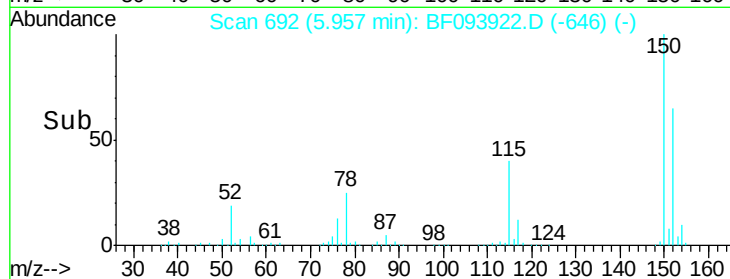
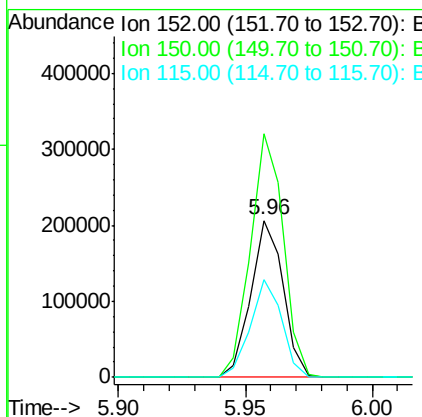
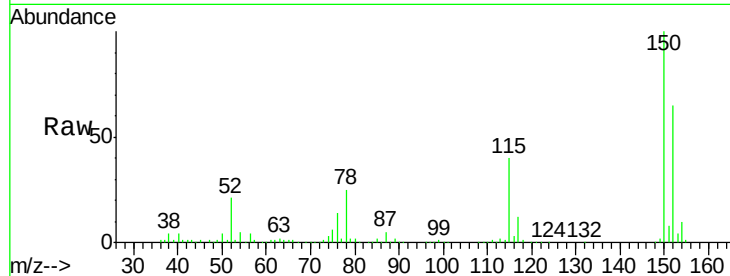
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.96 min Scan# 692
Delta R.T. -0.03 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	126.2	189.2
115	61.9	52.2	78.2

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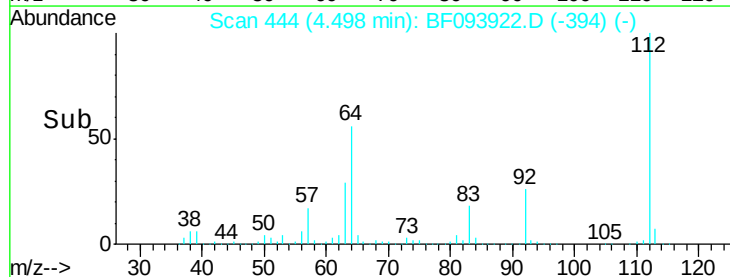
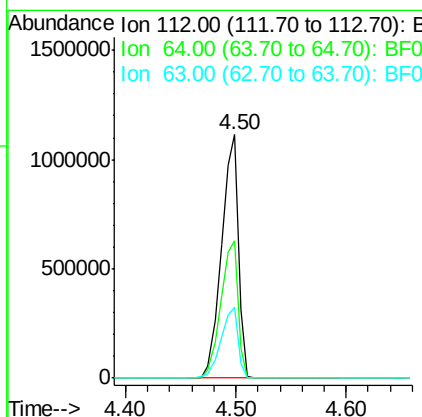
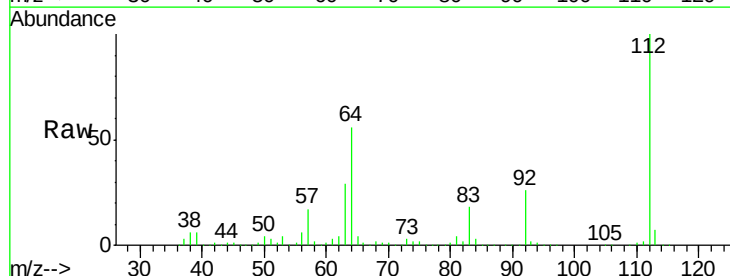
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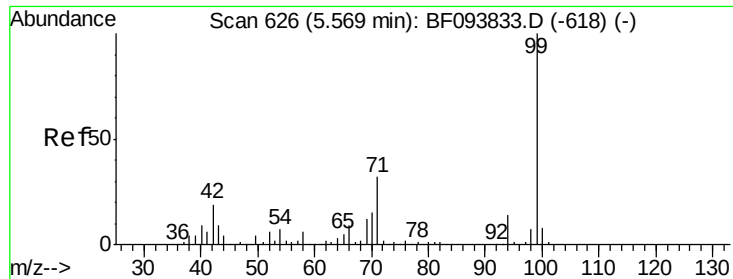


#5

2-Fluorophenol
Concen: 109.07 ng
RT: 4.50 min Scan# 444
Delta R.T. -0.01 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	46.0	69.0
63	29.1	23.4	35.0





#7

Phenol-d6

Concen: 115.72 ng

RT: 5.56 min Scan# 624

Delta R.T. -0.01 min

Lab File: BF093922.D

Acq: 24 Mar 2017 22:30

Instrument :

BNA_F

ClientSampleId :

E2-R14-SSW

Tot Ion: 99 Resp: 1553070

Ion Ratio Lower Upper

99 100

42 18.6 13.5 20.3

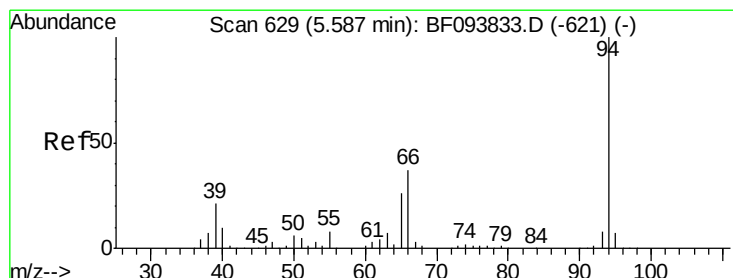
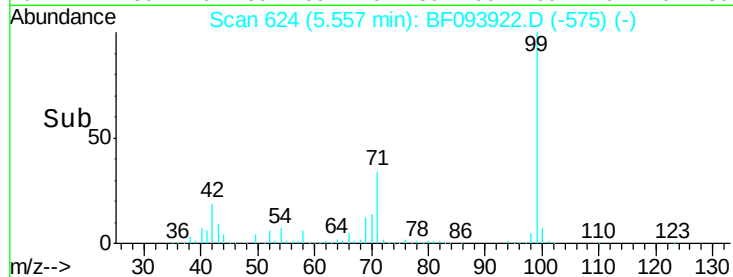
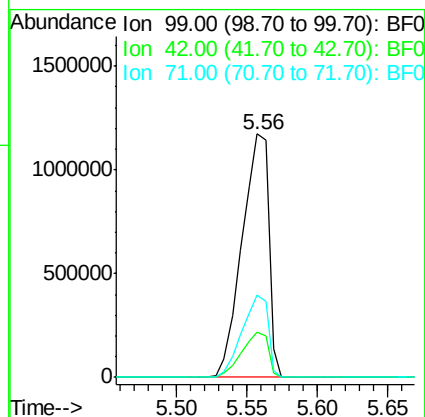
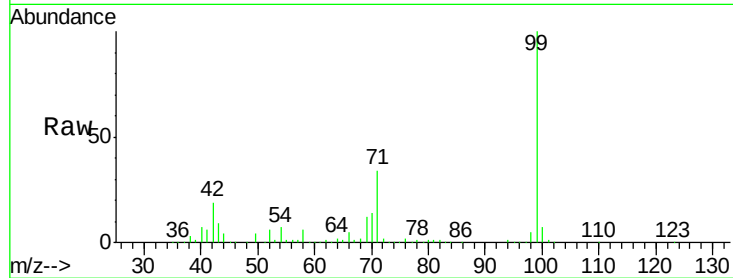
71 33.6 24.5 36.7

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#10

Phenol

Concen: 4.36 ng

RT: 5.57 min Scan# 626

Delta R.T. -0.02 min

Lab File: BF093922.D

Acq: 24 Mar 2017 22:30

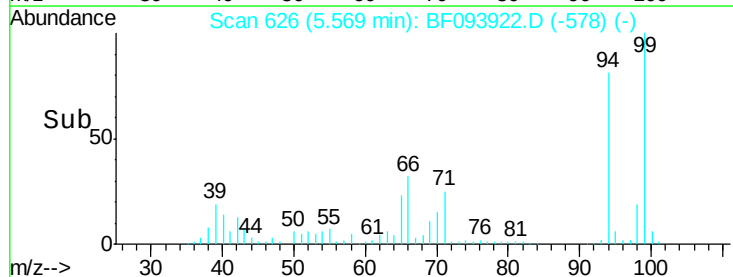
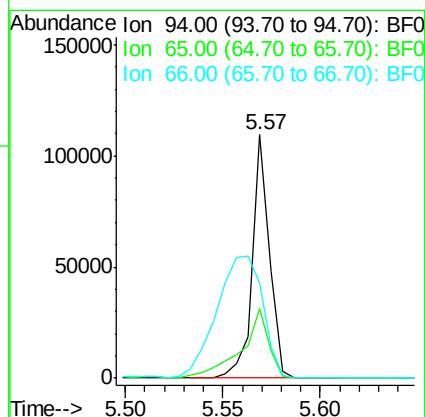
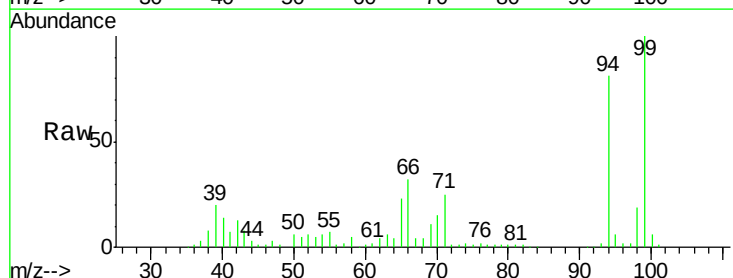
Tgt Ion: 94 Resp: 66611

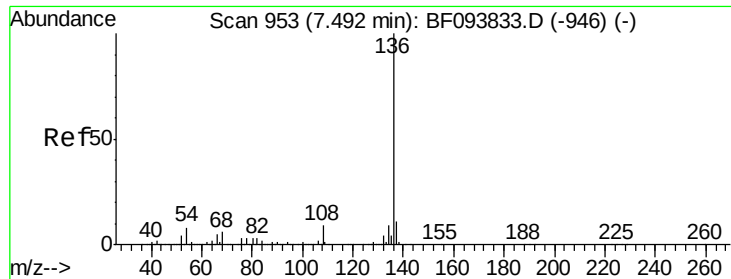
Ion Ratio Lower Upper

94 100

65 28.6 9.9 49.9

66 39.1 23.1 63.1





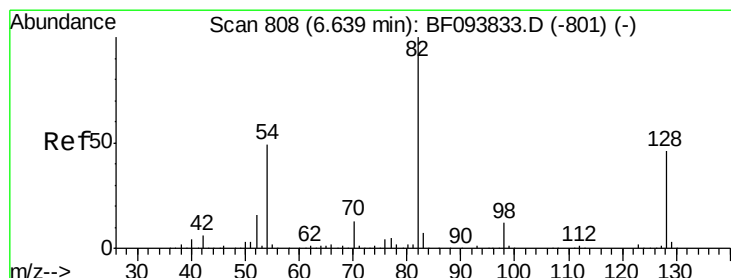
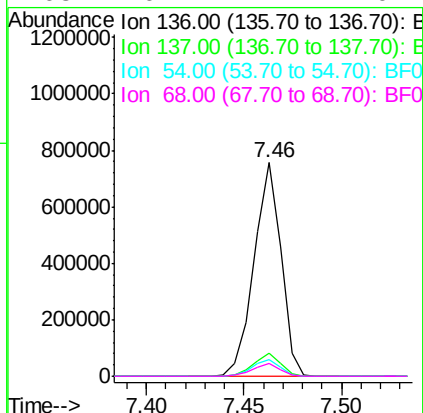
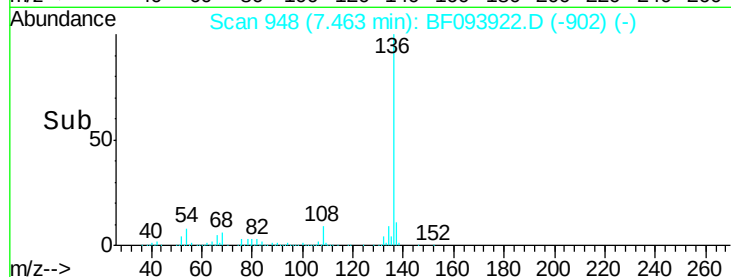
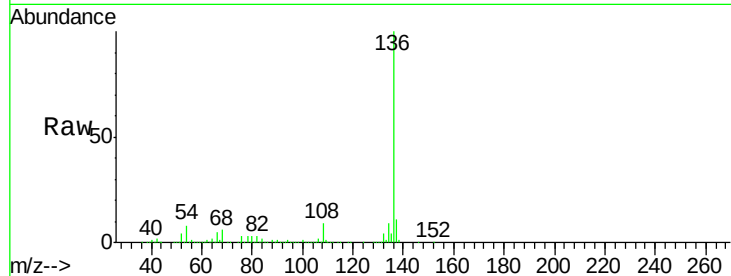
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.46 min Scan# 948
Delta R.T. -0.03 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.1	8.5	12.7
54	7.7	4.9	7.3#
68	6.2	4.1	6.1#

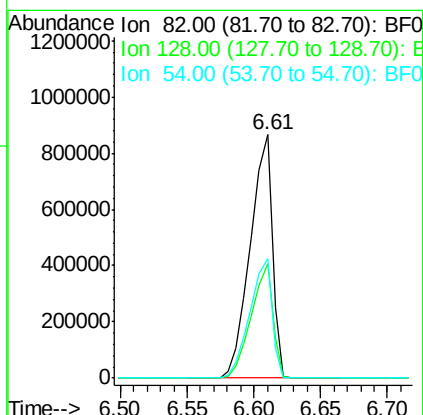
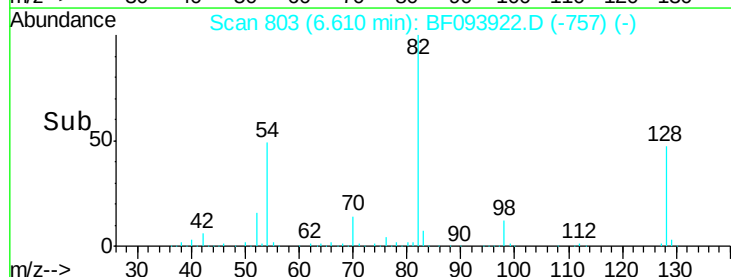
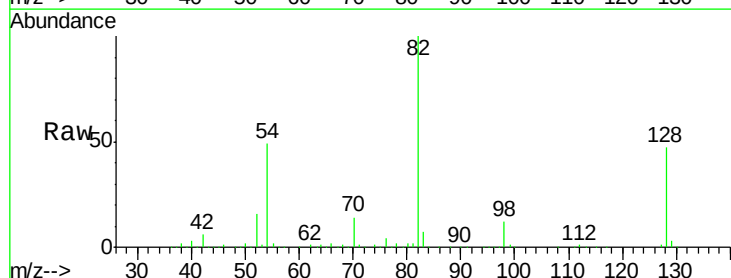
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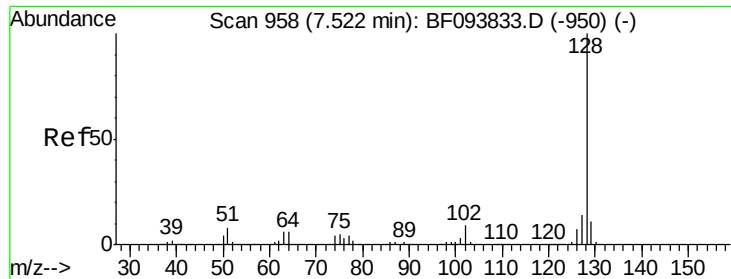
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#23
Nitrobenzene-d5
Concen: 77.07 ng
RT: 6.61 min Scan# 803
Delta R.T. -0.03 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	47.1	34.0	51.0
54	48.8	42.2	63.2





#31

Naphthalene

Concen: 4.54 ng

RT: 7.49 min Scan# 952

Delta R.T. -0.04 min

Lab File: BF093922.D

Acq: 24 Mar 2017 22:30

Instrument :

BNA_F

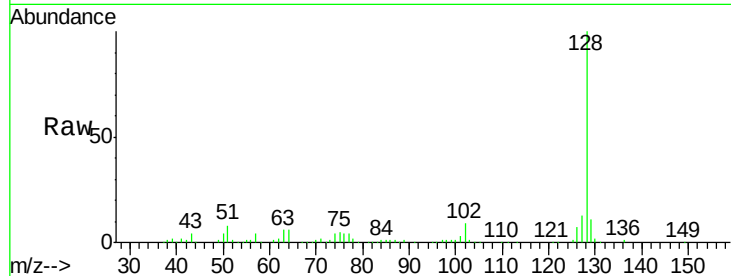
ClientSampleId :

E2-R14-SSW

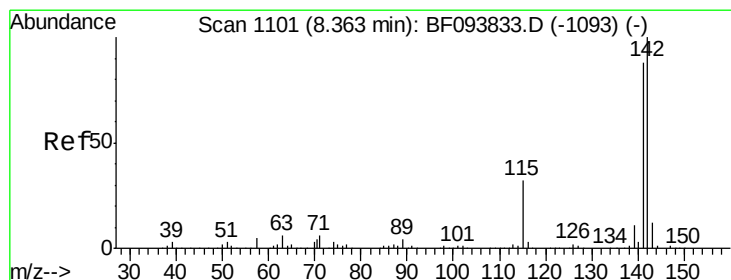
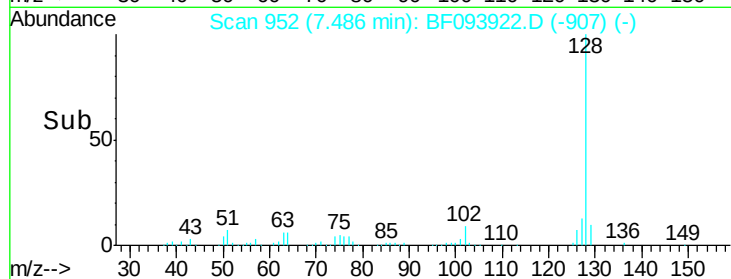
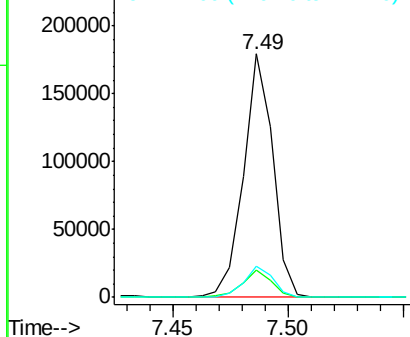
Tot Ion:	128	Resp:	158961
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	13.0	10.8	16.2

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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: 2.55 ng

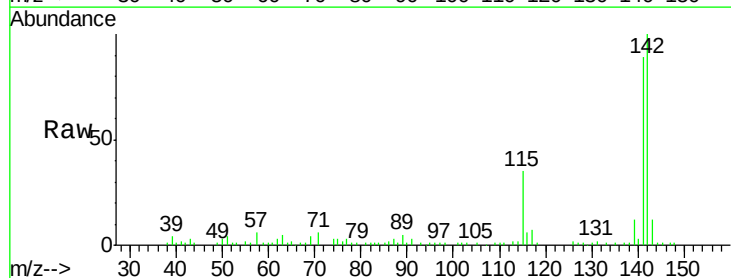
RT: 8.33 min Scan# 1095

Delta R.T. -0.04 min

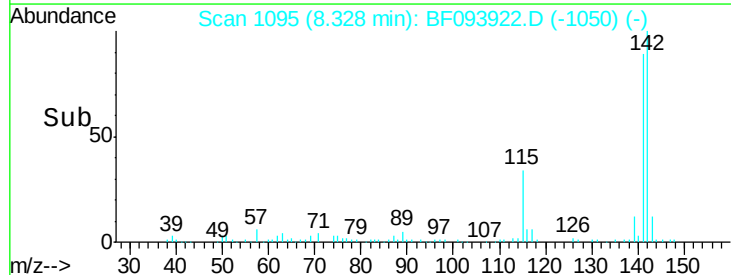
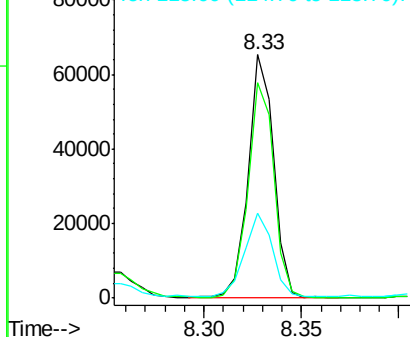
Lab File: BF093922.D

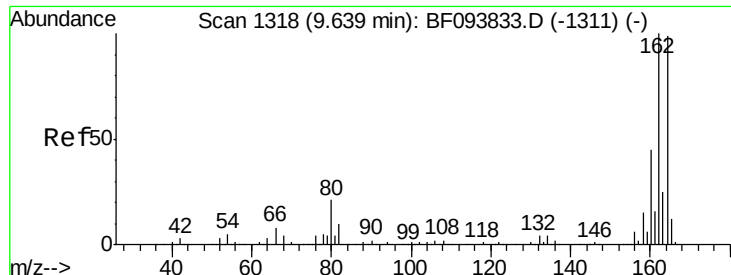
Acq: 24 Mar 2017 22:30

Tgt Ion:	142	Resp:	59391
Ion Ratio	Lower	Upper	
142	100		
141	88.7	71.3	106.9
115	35.0	27.1	40.7



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





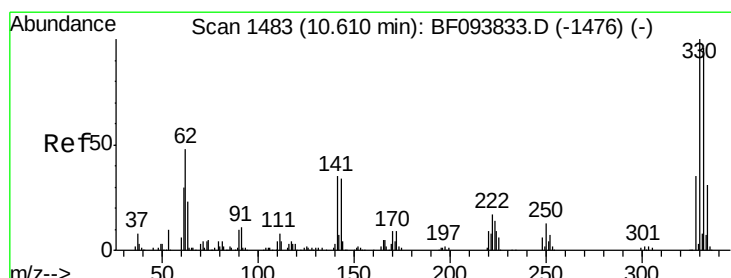
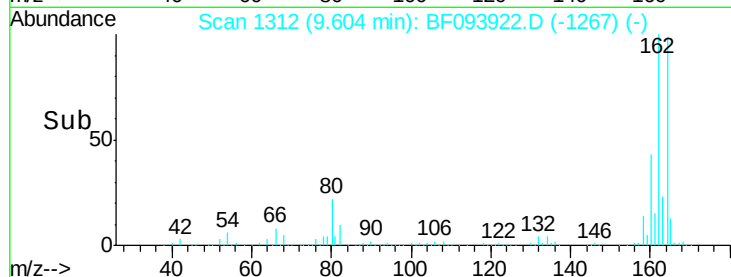
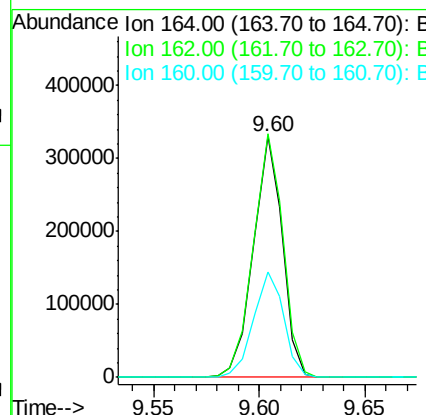
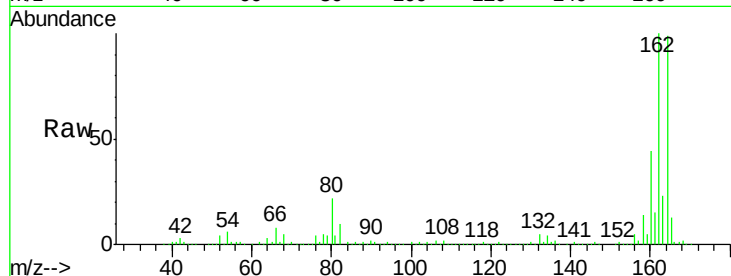
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.60 min Scan# 1312
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.1	82.6	123.8	
160	44.0	36.2	54.2	

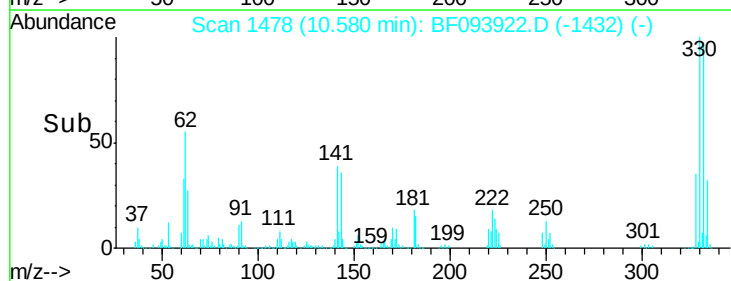
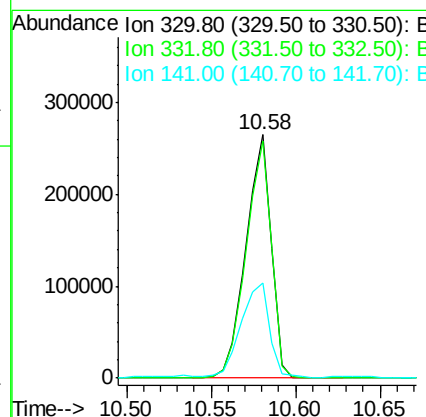
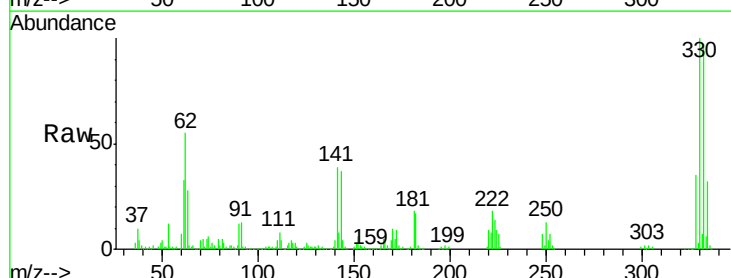
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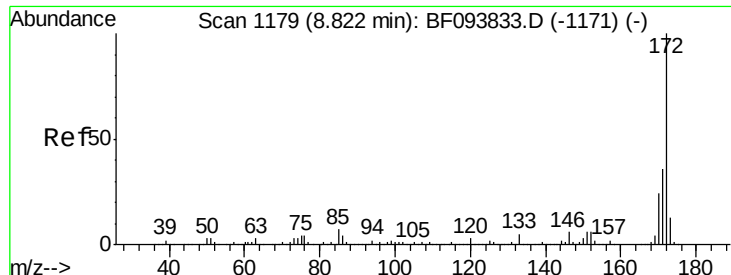
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#41
2,4,6-Tribromophenol
Concen: 111.69 ng
RT: 10.58 min Scan# 1478
Delta R.T. -0.03 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.4	76.6	115.0	
141	43.0	31.4	47.2	





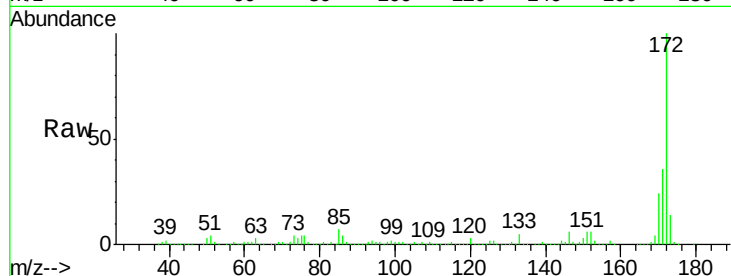
#44
2-Fluorobiphenyl
Concen: 76.00 ng
RT: 8.79 min Scan# 1173
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

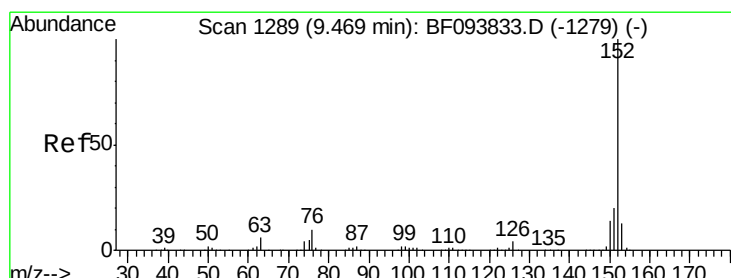
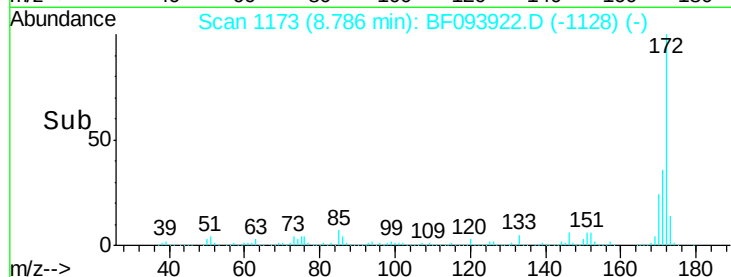
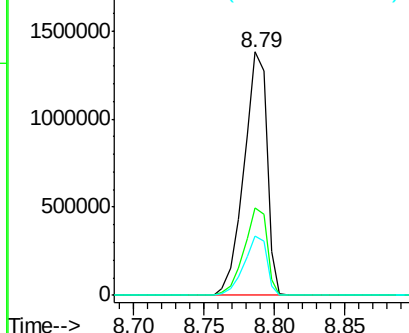
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.6	44.4
170	24.2	19.8	29.8

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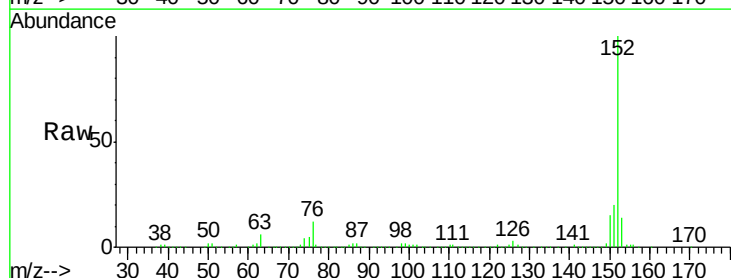


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

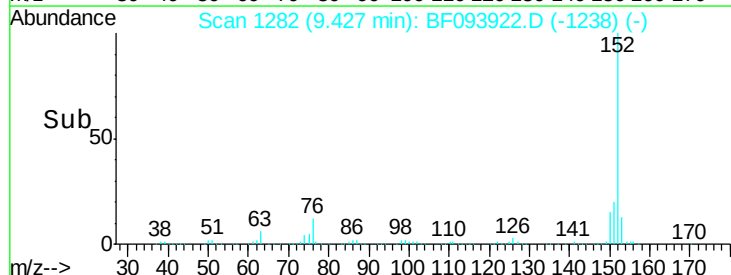
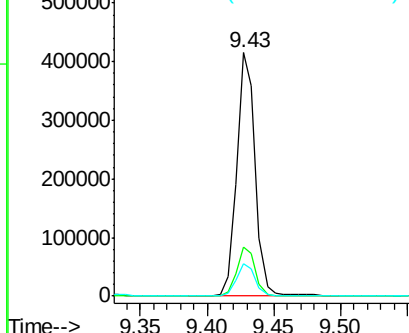


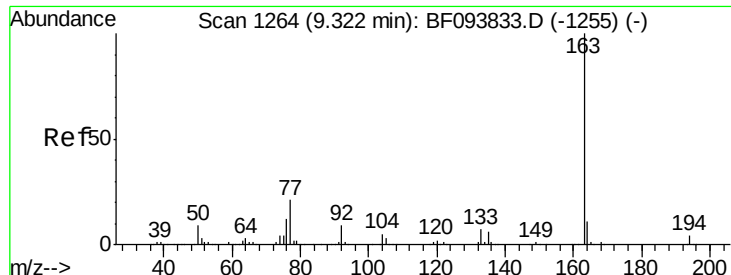
#48
Acenaphthylene
Concen: 12.13 ng
RT: 9.43 min Scan# 1282
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.8	25.2
153	13.5	10.8	16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





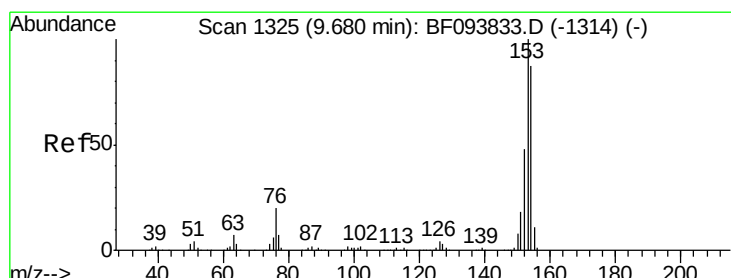
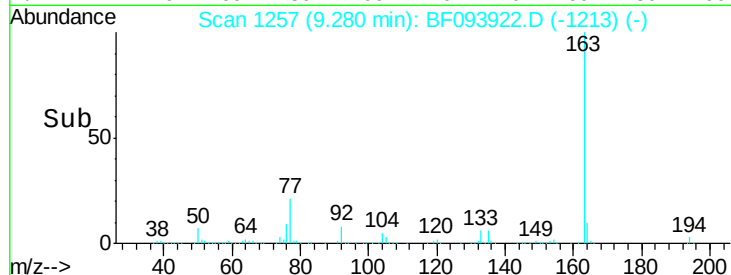
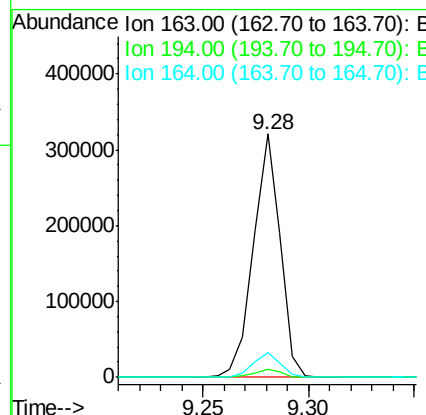
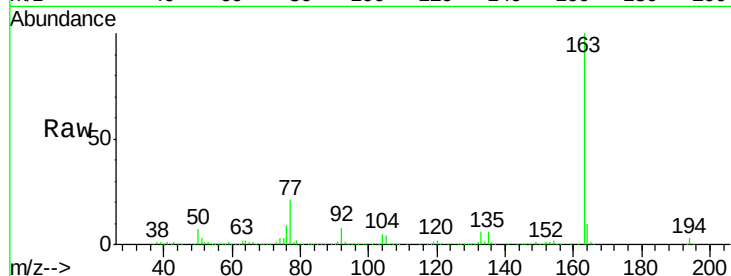
#49
Dimethylphthalate
Concen: 12.61 ng
RT: 9.28 min Scan# 1257
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion	Ratio	Resp	Lower	Upper
163	100	282841		
194	3.4		2.6	4.0
164	10.2		8.4	12.6

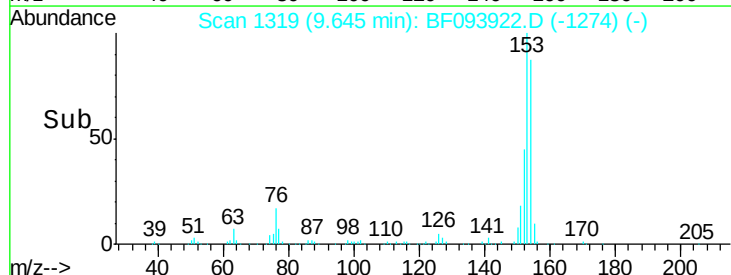
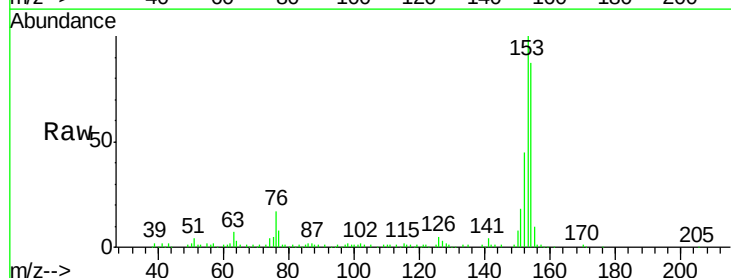
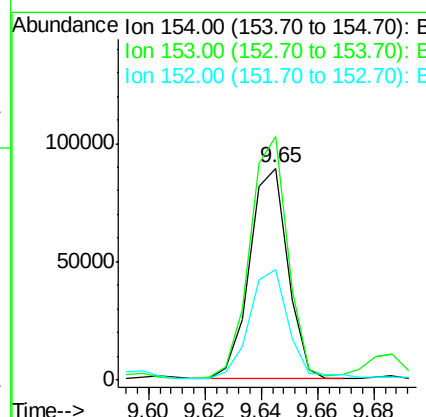
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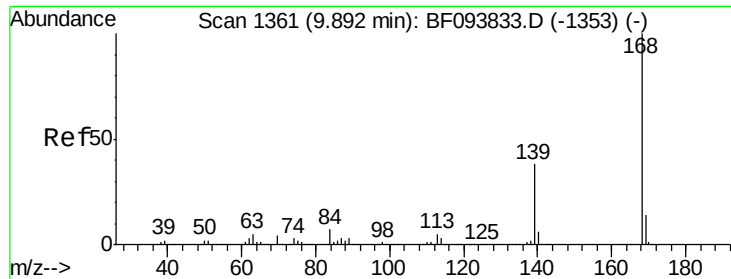
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#51
Acenaphthene
Concen: 4.33 ng
RT: 9.65 min Scan# 1319
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	83724		
153	114.8		90.5	135.7
152	52.2		43.6	65.4





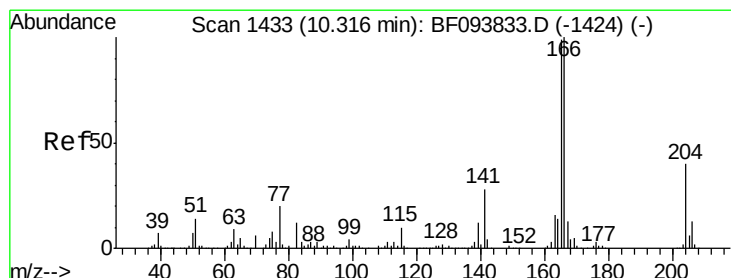
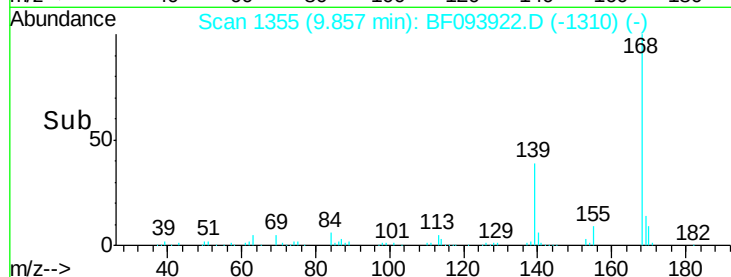
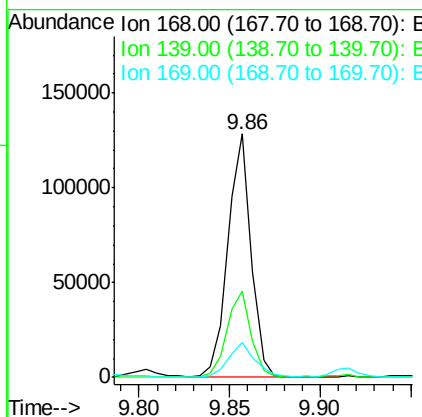
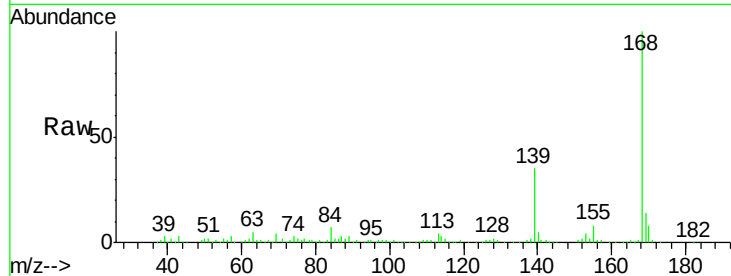
#54
Dibenzenofuran
Concen: 4.37 ng
RT: 9.86 min Scan# 1355
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.5	30.6	45.8
169	14.2	10.8	16.2

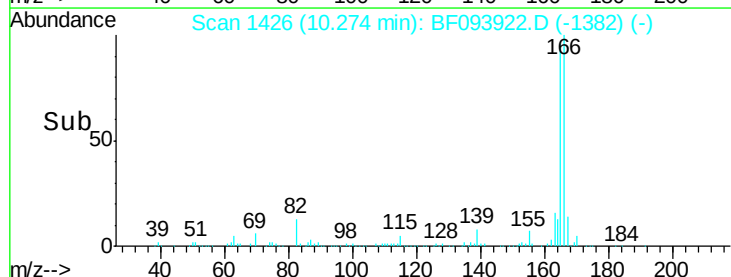
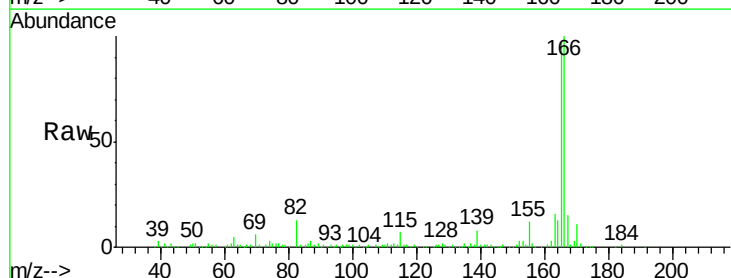
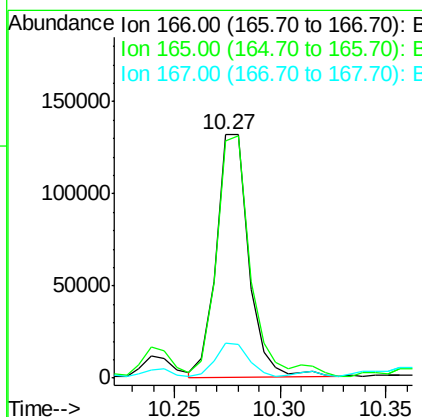
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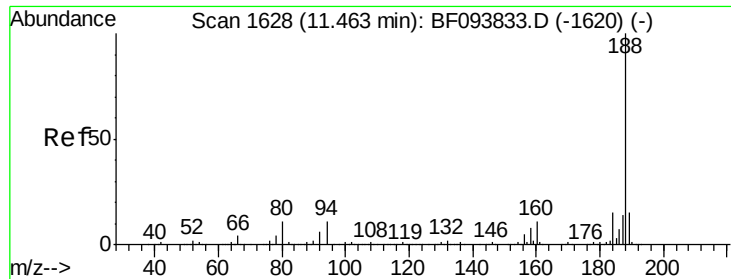
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#57
Fluorene
Concen: 6.46 ng
RT: 10.27 min Scan# 1426
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.8	118.2
167	14.6	10.6	16.0





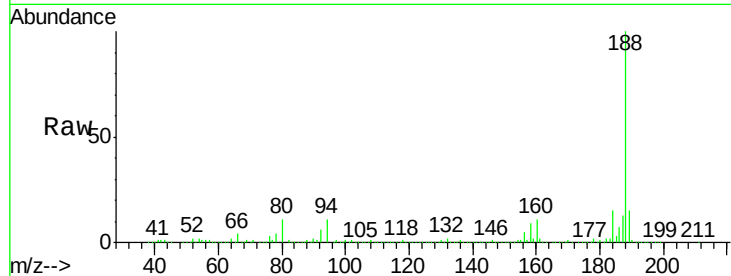
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.43 min Scan# 1623
Delta R.T. -0.03 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

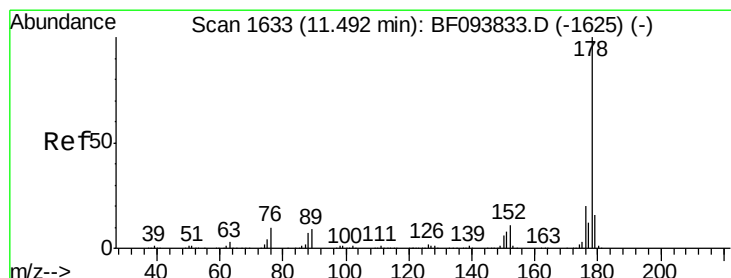
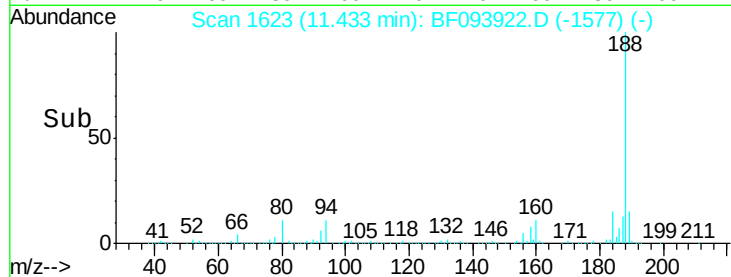
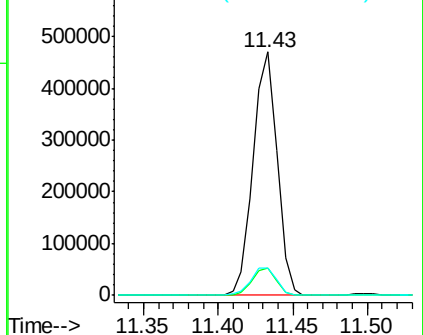
Tot Ion	Ratio	Resp	Lower	Upper
188	100	521536		
94	11.3		9.4	14.2
80	11.2		10.2	15.2

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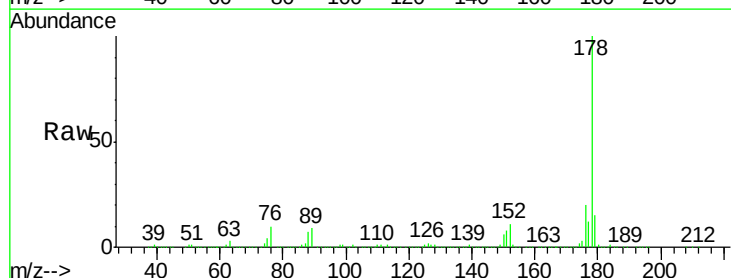


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

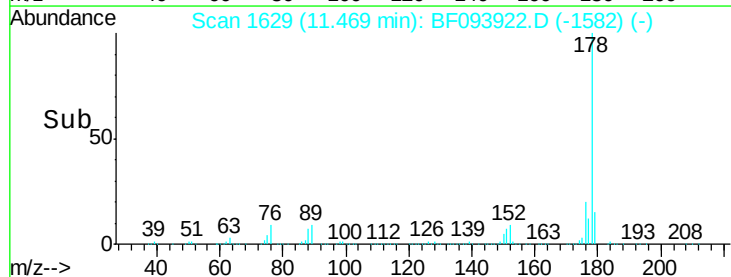
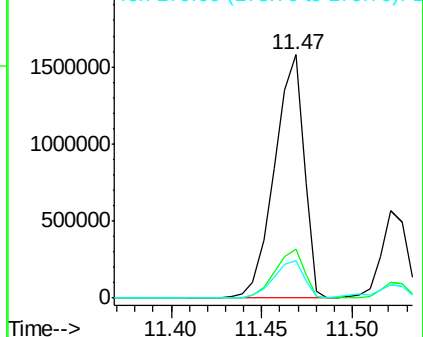


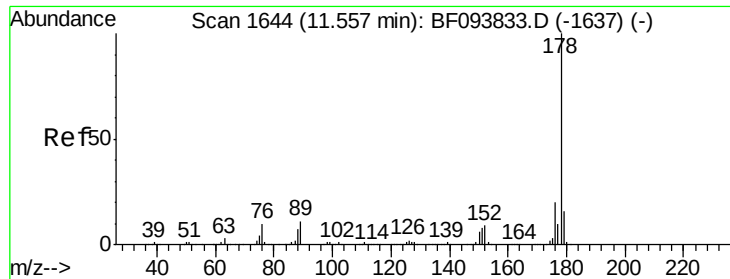
#70
Phenanthrene
Concen: 61.74 ng
RT: 11.47 min Scan# 1629
Delta R.T. -0.02 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1791335		
176	20.4		16.2	24.4
179	15.5		12.6	19.0



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





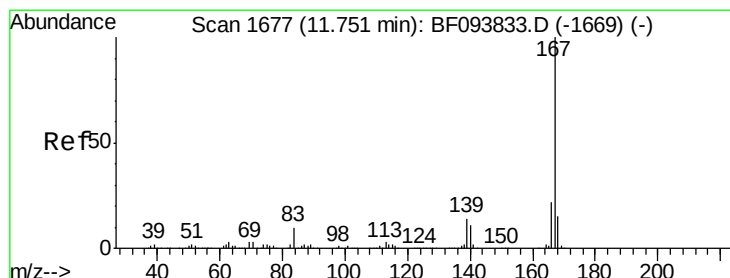
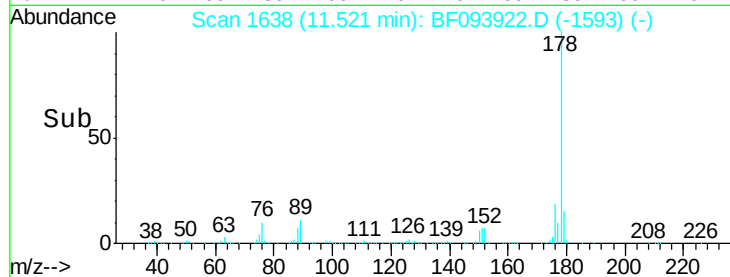
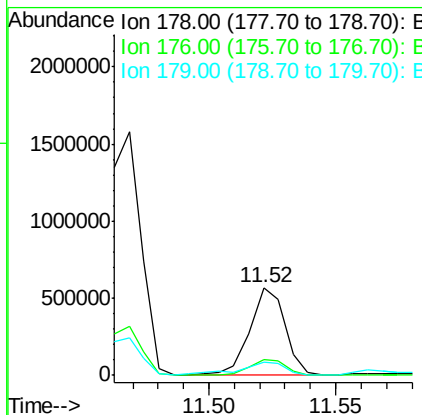
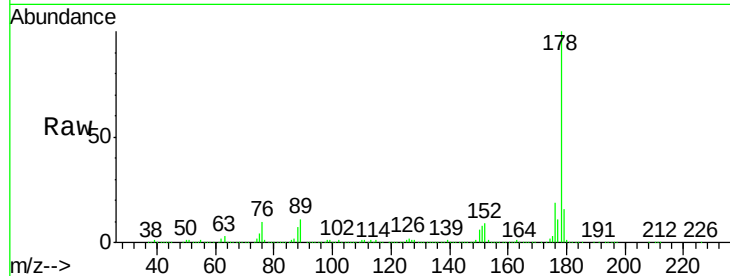
#71
 Anthracene
 Concen: 18.22 ng
 RT: 11.52 min Scan# 1638
 Delta R.T. -0.04 min
 Lab File: BF093922.D
 Acq: 24 Mar 2017 22:30

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSW

Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	18.6	15.8	23.8	
179	15.6	12.7	19.1	

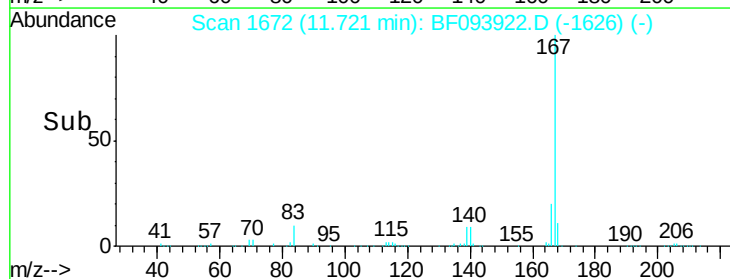
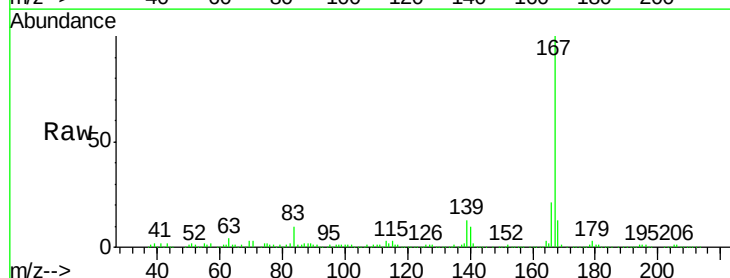
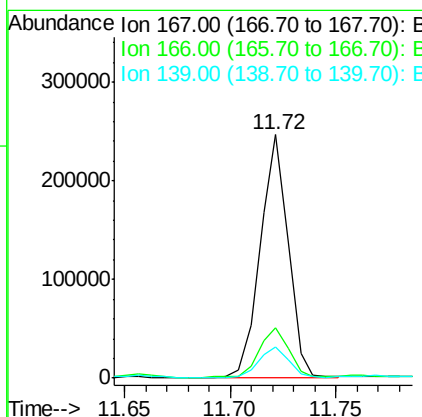
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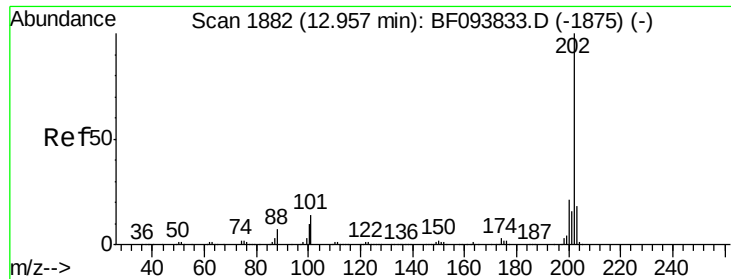
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#72
 Carbazole
 Concen: 7.39 ng
 RT: 11.72 min Scan# 1672
 Delta R.T. -0.03 min
 Lab File: BF093922.D
 Acq: 24 Mar 2017 22:30

Tgt Ion	Ion	Ratio	Lower	Upper
167	100			
166	20.8	18.1	27.1	
139	12.9	11.7	17.5	





#74

Fluoranthene

Concen: 85.25 ng

RT: 12.94 min Scan# 1879

Delta R.T. -0.02 min

Lab File: BF093922.D

Acq: 24 Mar 2017 22:30

Instrument :

BNA_F

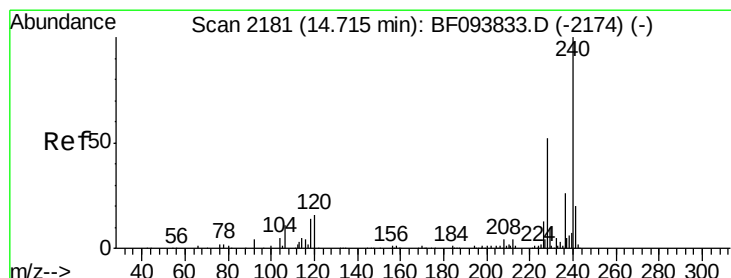
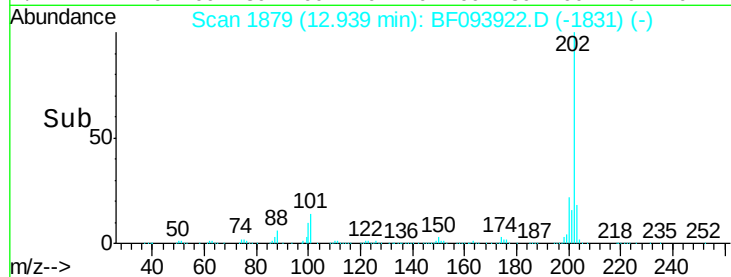
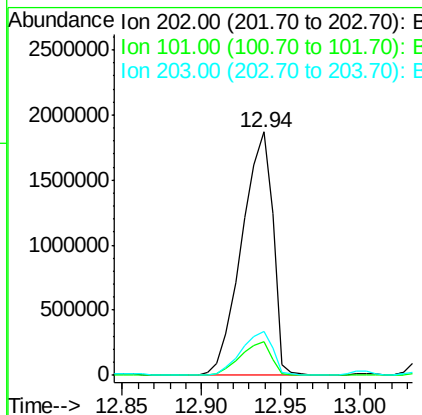
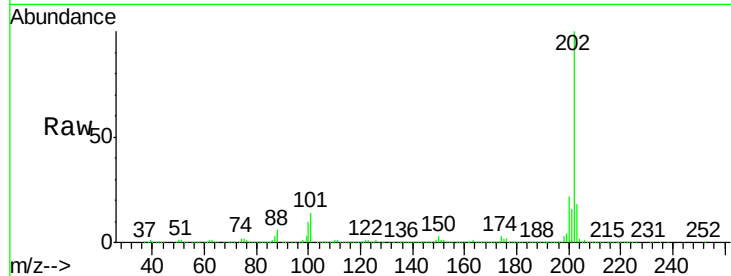
ClientSampleId :

E2-R14-SSW

Tot Ion:	202	Resp:	2532486
Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	33.2
203	18.2	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

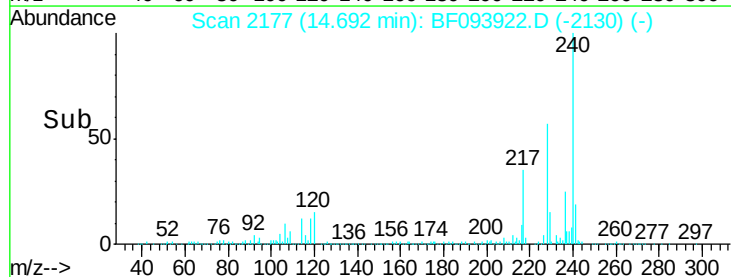
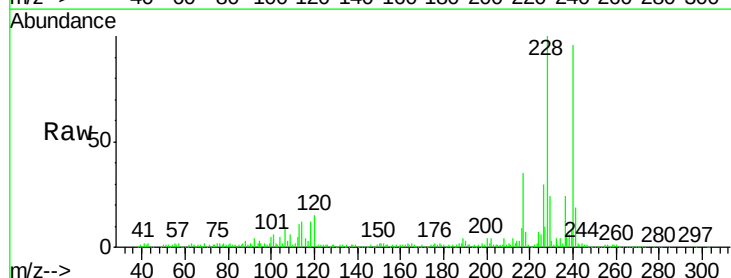
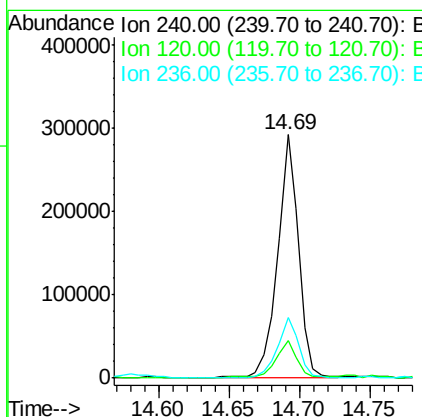
RT: 14.69 min Scan# 2177

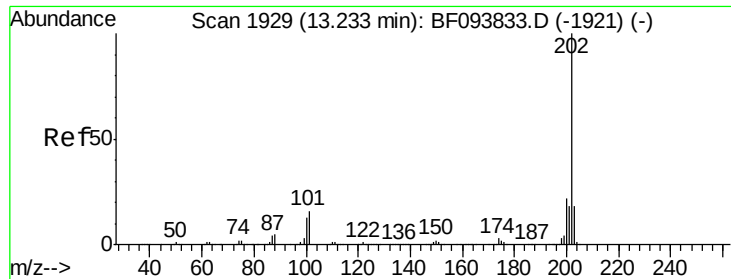
Delta R.T. -0.02 min

Lab File: BF093922.D

Acq: 24 Mar 2017 22:30

Tgt Ion:	240	Resp:	300089
Ion	Ratio	Lower	Upper
240	100		
120	15.3	5.8	8.8#
236	25.0	20.5	30.7





#77

Pvrene

Concen: 102.99 ng

RT: 13.22 min Scan# 1926

Delta R.T. -0.02 min

Lab File: BF093922.D

Acq: 24 Mar 2017 22:30

Instrument :

BNA_F

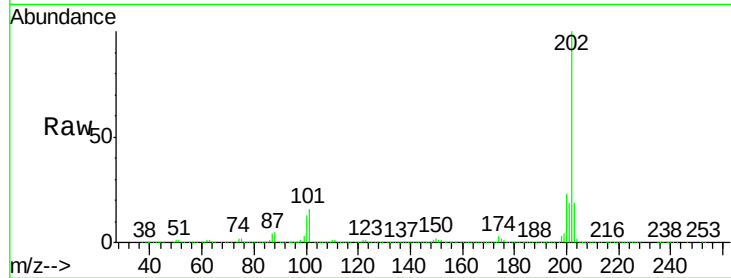
ClientSampleId :

E2-R14-SSW

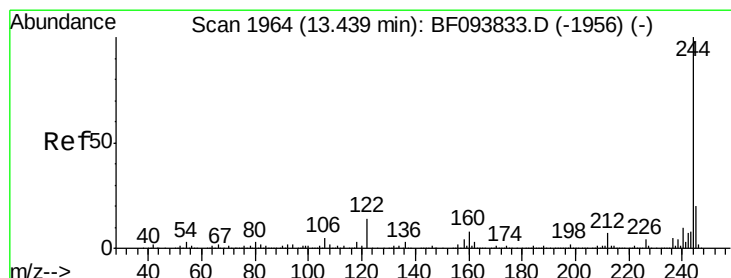
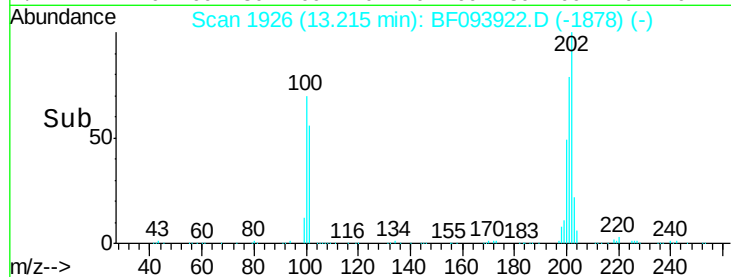
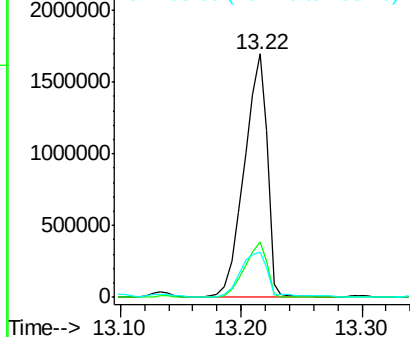
Tot Ion:	202	Resp:	2242865
Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.6	26.4
203	18.6	14.4	21.6

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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: 69.52 ng

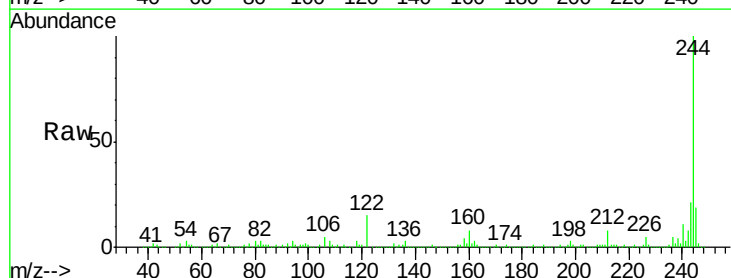
RT: 13.41 min Scan# 1959

Delta R.T. -0.03 min

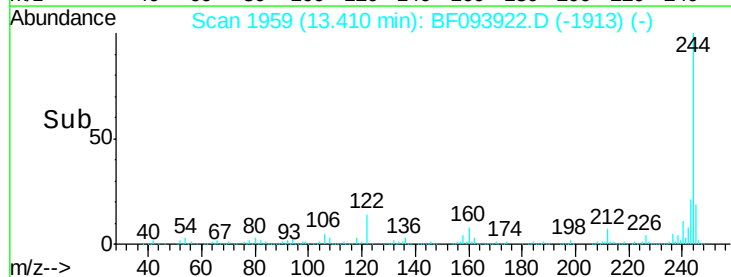
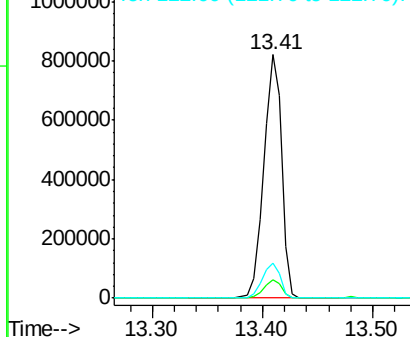
Lab File: BF093922.D

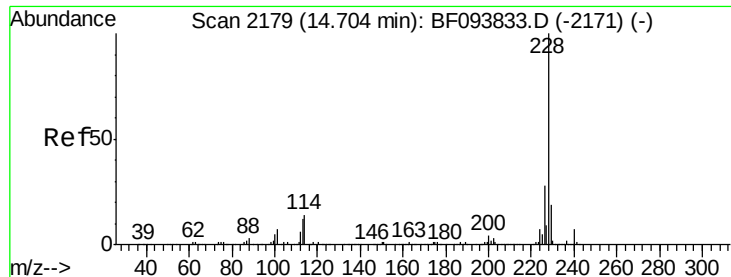
Acq: 24 Mar 2017 22:30

Tgt Ion:	244	Resp:	930754
Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	14.6	10.3	15.5



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





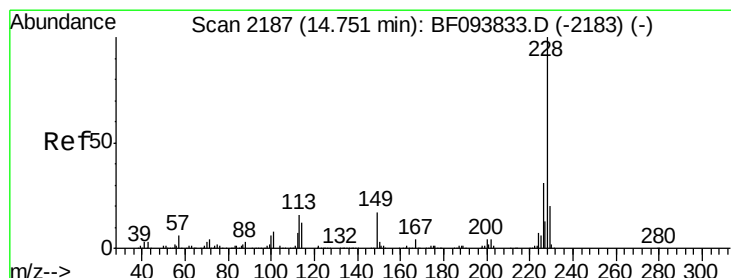
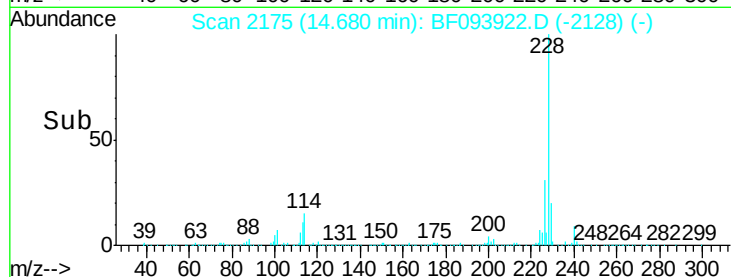
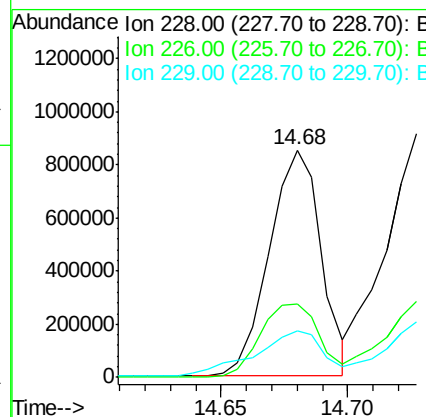
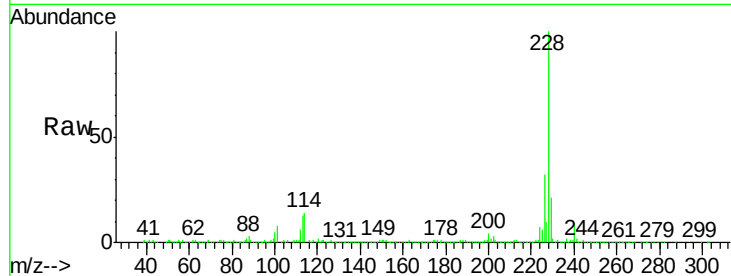
#80
Benzo(a)anthracene
Concen: 69.56 ng
RT: 14.68 min Scan# 2175
Delta R.T. -0.02 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.5	22.6	33.8
229	20.7	16.3	24.5

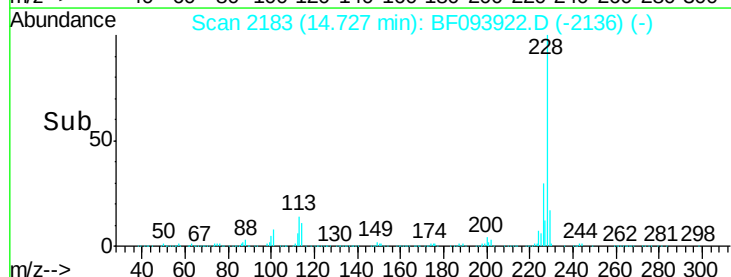
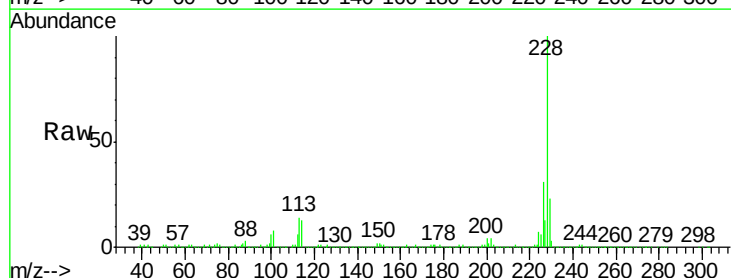
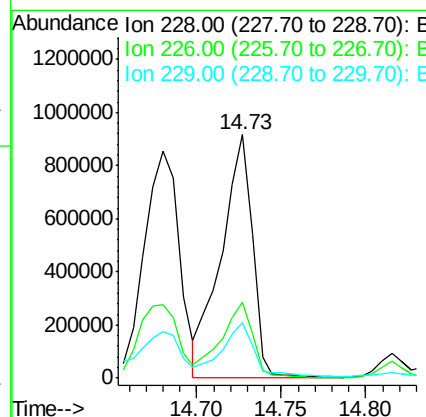
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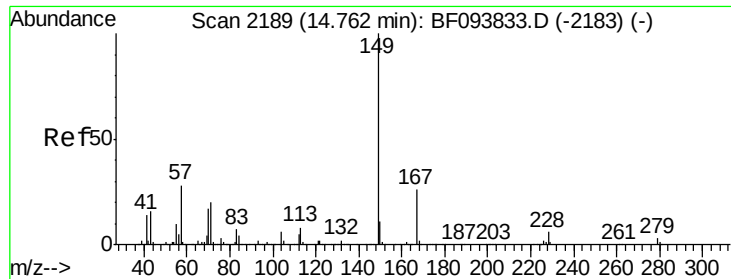
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#82
Chrysene
Concen: 72.13 ng
RT: 14.73 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.9	37.3
229	22.6	15.8	23.6





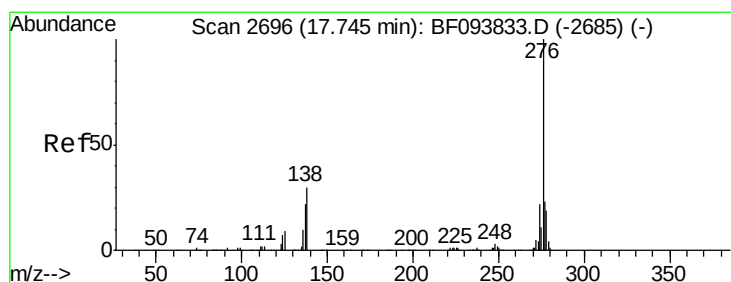
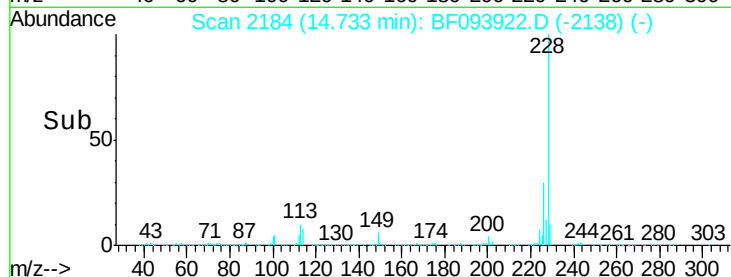
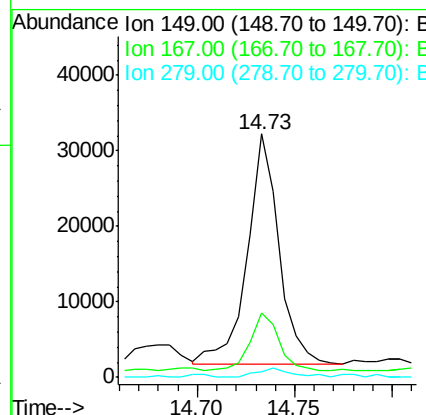
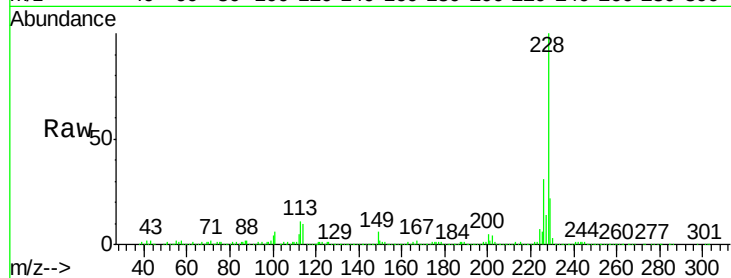
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.72 ng
 RT: 14.73 min Scan# 2184
 Delta R.T. -0.03 min
 Lab File: BF093922.D
 Acq: 24 Mar 2017 22:30

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSW

Tot Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.0	31.4
279	2.4	1.9	2.9

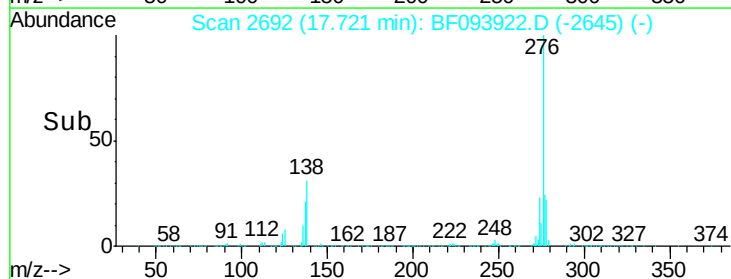
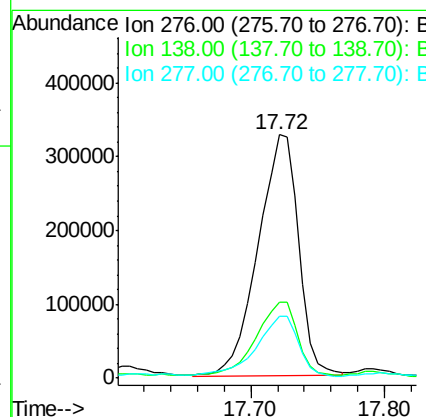
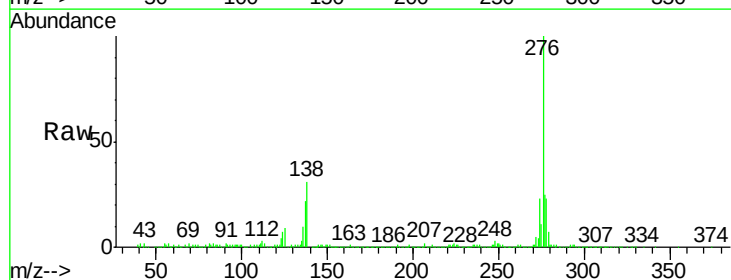
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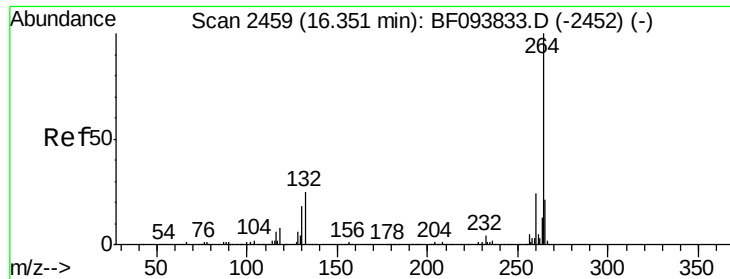
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 48.94 ng
 RT: 17.72 min Scan# 2692
 Delta R.T. -0.02 min
 Lab File: BF093922.D
 Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.8	27.8	41.6
277	25.7	20.2	30.4





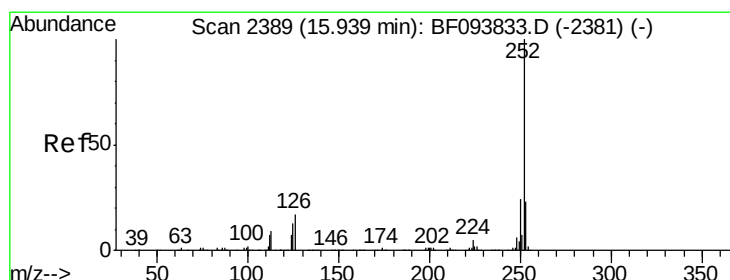
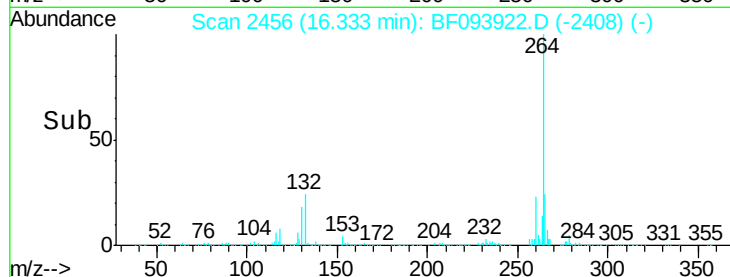
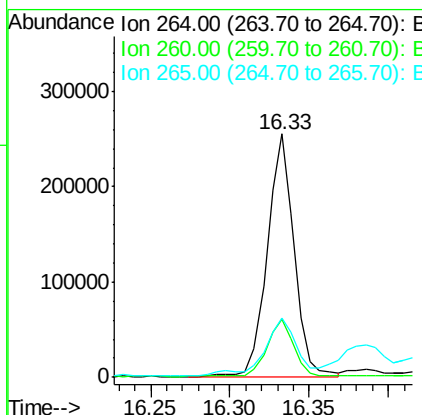
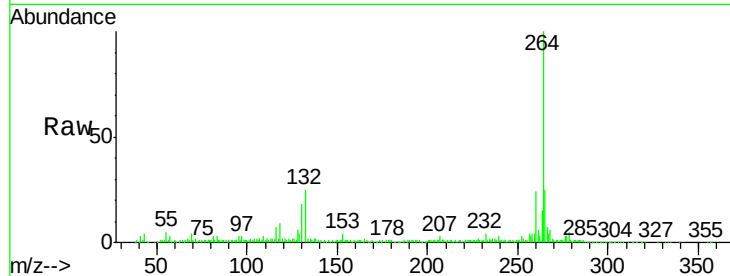
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.33 min Scan# 2456
Delta R.T. -0.02 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	24.5	17.2	25.8

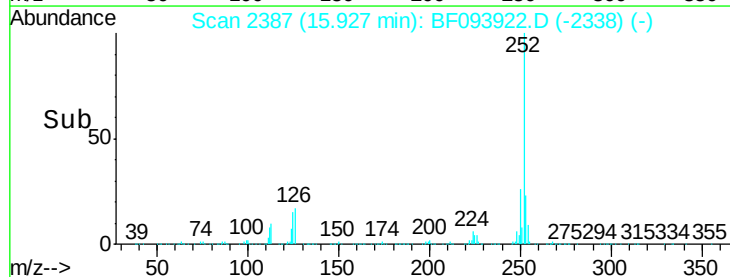
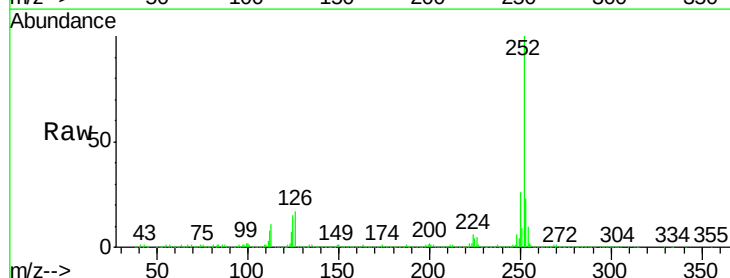
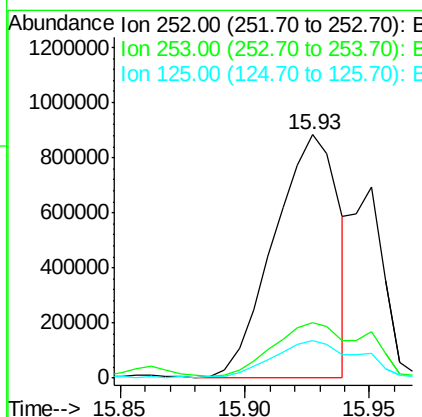
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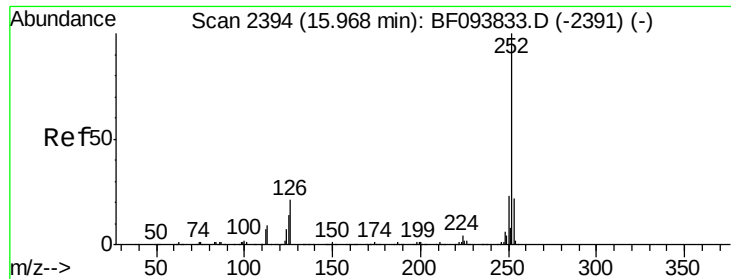
mohammad
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#87
Benzo(b)fluoranthene
Concen: 86.04 ng m
RT: 15.93 min Scan# 2387
Delta R.T. -0.01 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	15.2	9.8	14.8





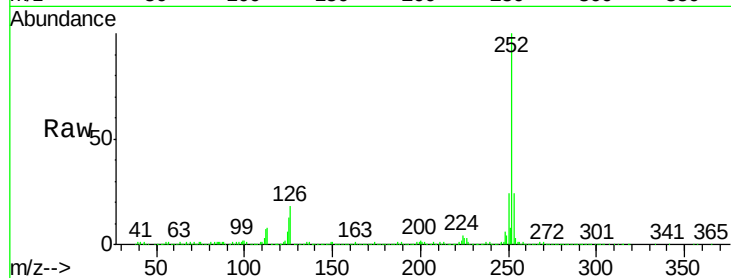
#88
Benzo(k)fluoranthene
Concen: 34.21 ng m
RT: 15.95 min Scan# 2391
Delta R.T. -0.02 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

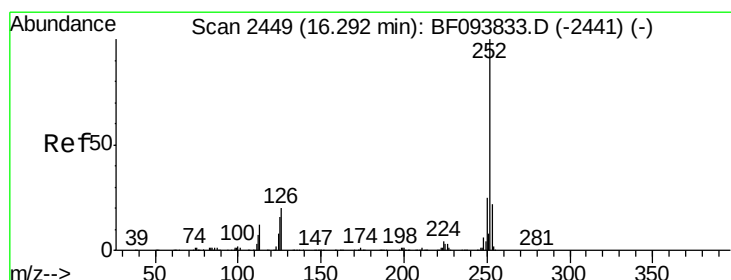
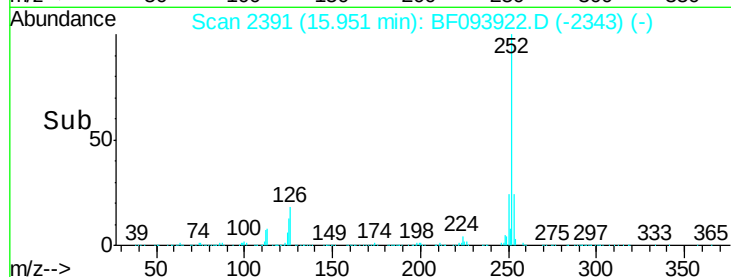
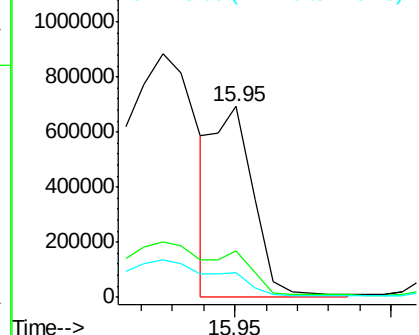
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.4	27.6
125	13.3	13.1	19.7

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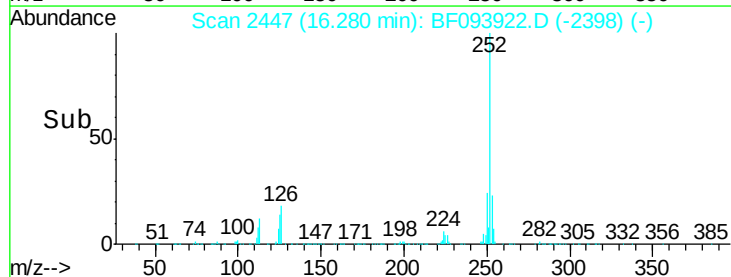
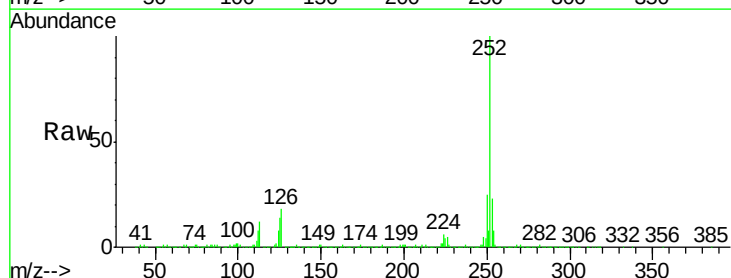
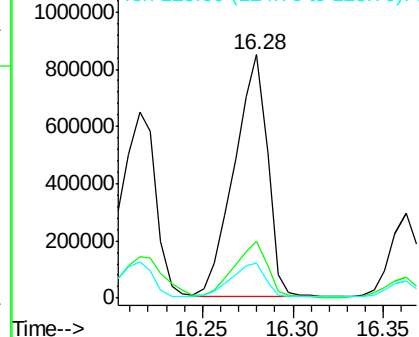
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

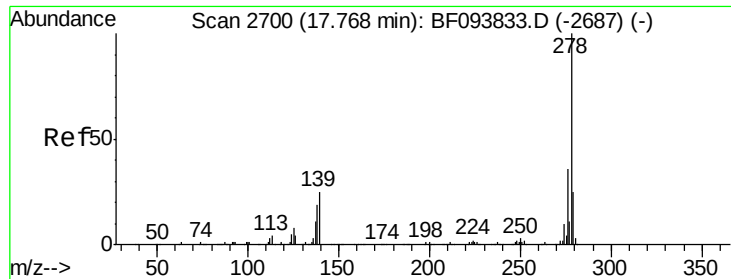


#89
Benzo(a)pyrene
Concen: 63.31 ng
RT: 16.28 min Scan# 2447
Delta R.T. -0.01 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	14.2	11.0	16.4

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





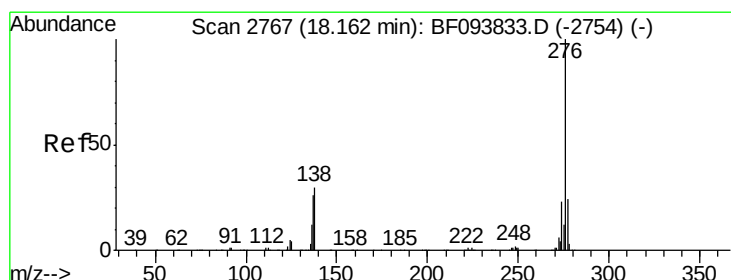
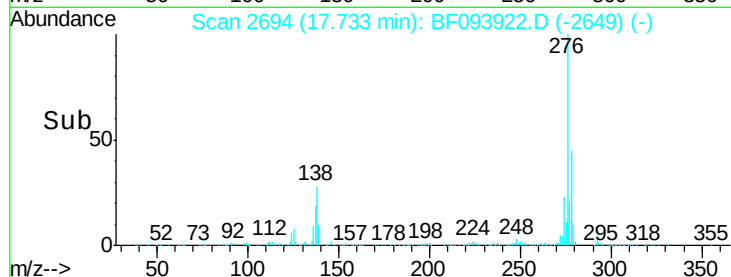
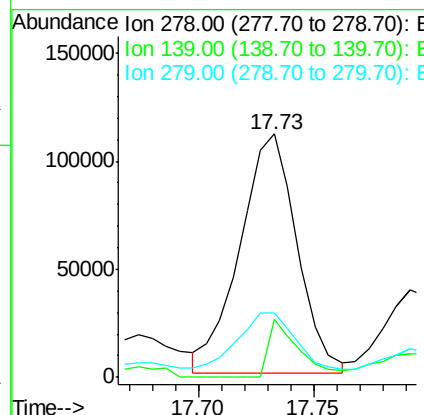
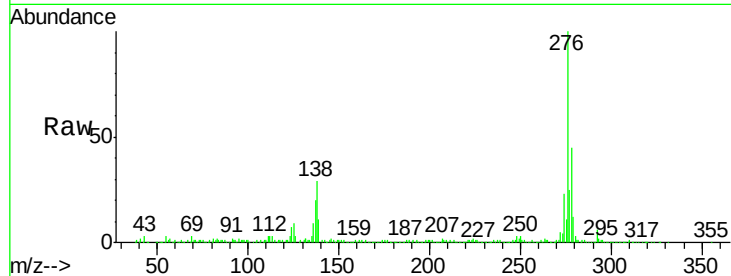
#90
Dibenzo(a,h)anthracene
Concen: 13.17 ng
RT: 17.73 min Scan# 2694
Delta R.T. -0.04 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSW

Tot Ion:278	Resp:	190045
Ion Ratio	Lower	Upper
278	100	
139	23.9	16.6 24.8
279	26.7	19.3 28.9

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#91
Benzo(g,h,i)perylene
Concen: 45.02 ng
RT: 18.13 min Scan# 2762
Delta R.T. -0.03 min
Lab File: BF093922.D
Acq: 24 Mar 2017 22:30

Tgt Ion:276	Resp:	654560
Ion Ratio	Lower	Upper
276	100	
277	24.4	18.6 28.0
138	32.1	25.4 38.0

