

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
 Data File : BF086955.D
 Acq On : 13 May 2016 3:13
 Operator : UM/SJ
 Sample : H2965-01RE
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-13(5.5-6)RE

Manual Integrations
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Quant Time: May 13 04:31:18 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 00:58:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	137177	20.00	ng	0.00
21) Naphthalene-d8	7.91	136	502166	20.00	ng	-0.01
38) Acenaphthene-d10	9.66	164	206282	20.00	ng	-0.01
63) Phenanthrene-d10	11.13	188	323528	20.00	ng	-0.01
75) Chrysene-d12	13.77	240	291053	20.00	ng	0.00
86) Perylene-d12	15.13	264	218762	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	995199	122.86	ng	0.01
7) Phenol-d6	6.30	99	1327697	122.64	ng	0.00
23) Nitrobenzene-d5	7.20	82	886051	88.60	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	201576	92.30	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	1119417	91.20	ng	0.00
78) Terphenyl-d14	12.72	244	753200	54.91	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.93	128	229705	9.13	ng	99
48) Acenaphthylene	9.52	152	52456	2.77	ng	98
49) Dimethylphthalate	9.39	163	111733	7.10	ng	99
51) Acenaphthene	9.69	154	106951	9.09	ng	98
54) Dibenzofuran	9.86	168	72980	4.83	ng	# 96
57) Fluorene	10.20	166	49513	3.85	ng	# 95
70) Phenanthrene	11.16	178	580030	33.60	ng	99
71) Anthracene	11.21	178	199924	11.32	ng	98
72) Carbazole	11.37	167	51324	3.38	ng	# 92
74) Fluoranthene	12.34	202	987512	55.61	ng	100
77) Pyrene	12.57	202	932236	41.84	ng	99
80) Benzo(a)anthracene	13.76	228	615859	37.69	ng	98
82) Chrysene	13.79	228	370410m	22.29	ng	
83) Bis(2-ethylhexyl)phthalate	13.76	149	48098	4.24	ng	100
85) Indeno(1,2,3-cd)pyrene	16.39	276	177781	12.86	ng	# 89
87) Benzo(b)fluoranthene	14.77	252	474372m	33.37	ng	
88) Benzo(k)fluoranthene	14.78	252	162980m	14.00	ng	
89) Benzo(a)pyrene	15.09	252	324784	26.48	ng	97
90) Dibenzo(a,h)anthracene	16.39	278	56714	5.49	ng	# 82
91) Benzo(g,h,i)perylene	16.77	276	160642	15.30	ng	94

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

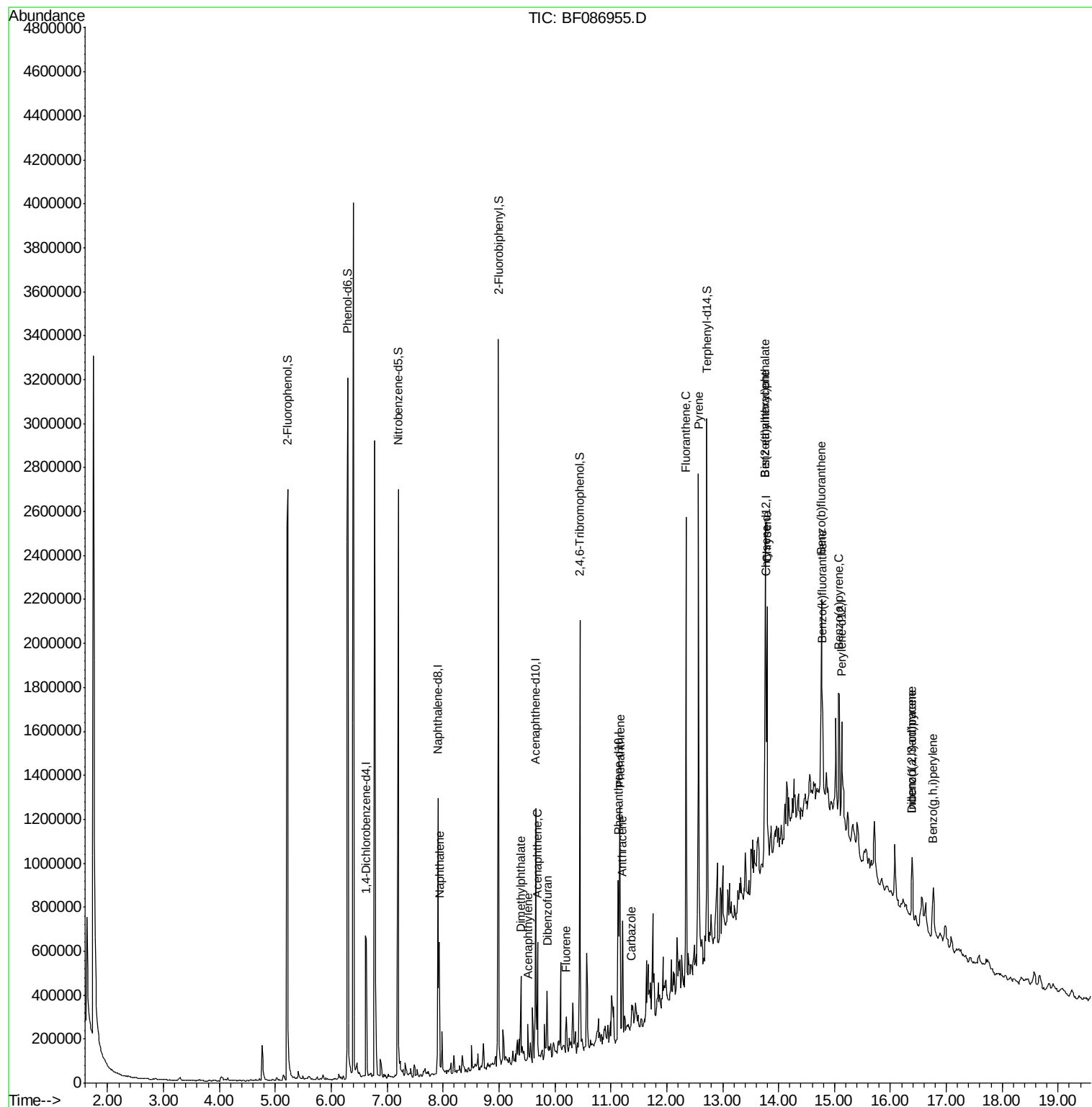
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
Data File : BF086955.D
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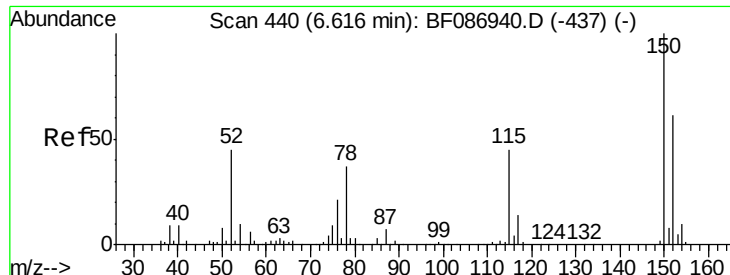
Instrument :
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E-13(5.5-6)RE

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Quant Time: May 13 04:31:18 2016
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QLast Update : Fri May 13 00:58:18 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 441

Delta R.T. 0.00 min

Lab File: BF086955.D

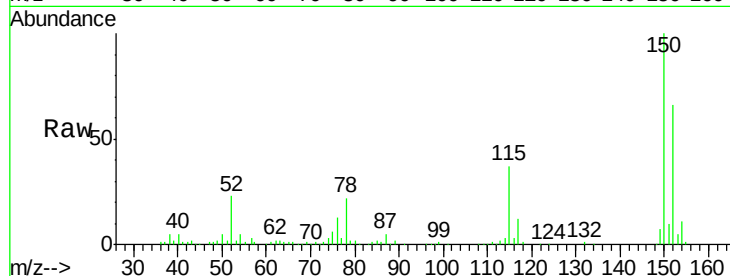
Acq: 13 May 2016 3:13

Instrument :

BNA_F

ClientSampleId :

E-13(5.5-6)RE



Tgt Ion:152 Resp: 137177

Ion Ratio Lower Upper

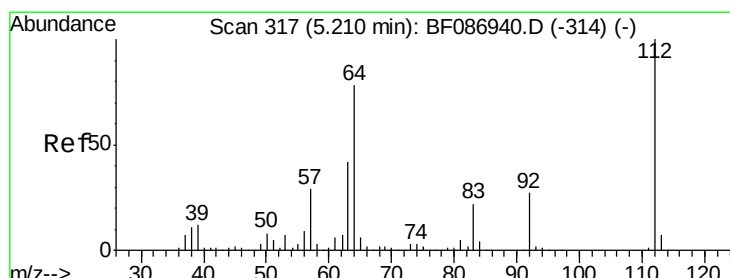
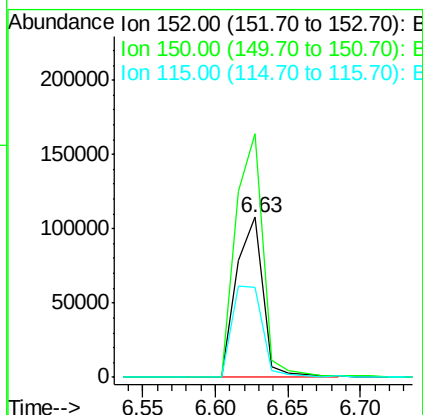
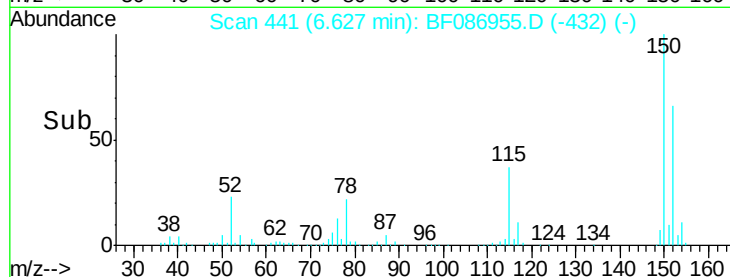
152 100

150 152.3 125.8 188.6

115 56.3 51.5 77.3

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#5

2-Fluorophenol

Concen: 122.86 ng

RT: 5.22 min Scan# 318

Delta R.T. 0.01 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

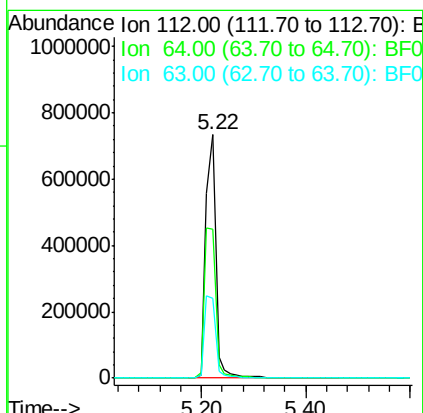
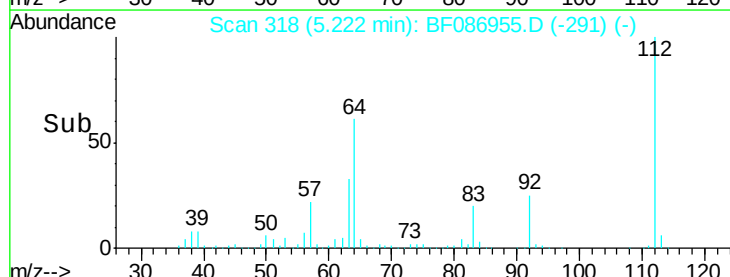
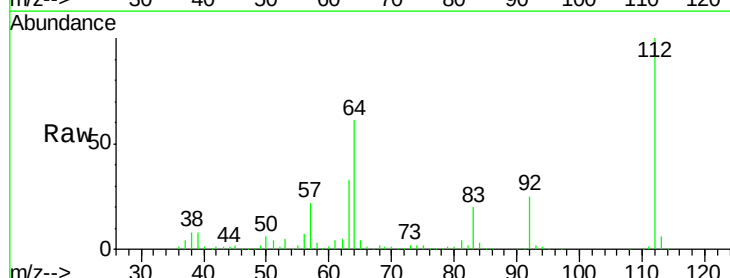
Tgt Ion:112 Resp: 995199

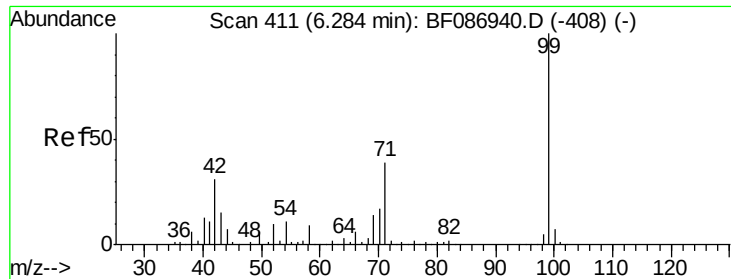
Ion Ratio Lower Upper

112 100

64 61.2 52.1 78.1

63 32.8 25.7 38.5





#7

Phenol-d6

Concen: 122.64 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.00 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

Instrument :

BNA_F

ClientSampled :

E-13(5.5-6)RE

Tgt Ion: 99 Resp: 1327697

Ion Ratio Lower Upper

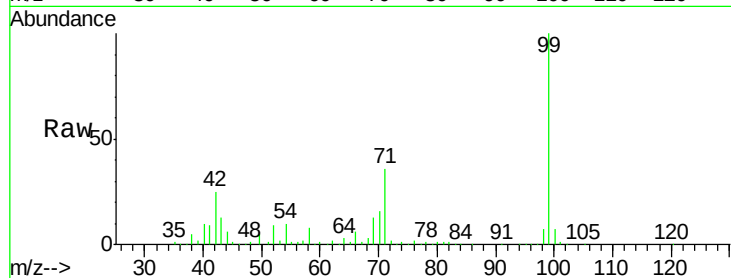
99 100

42 25.4 13.6 20.4#

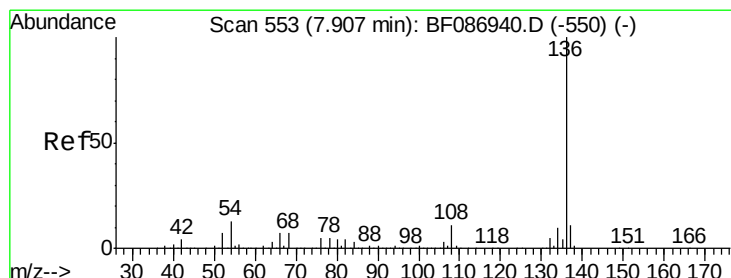
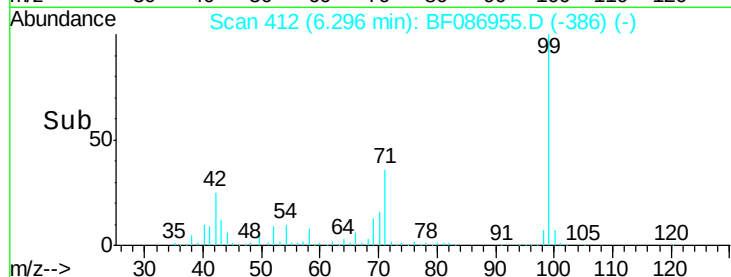
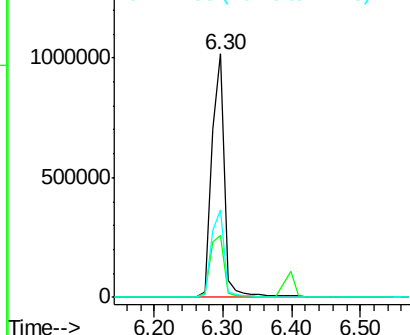
71 35.9 24.6 36.8

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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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

Delta R.T. -0.01 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

Tgt Ion: 136 Resp: 502166

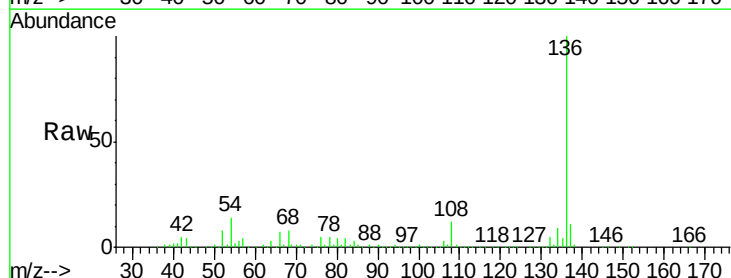
Ion Ratio Lower Upper

136 100

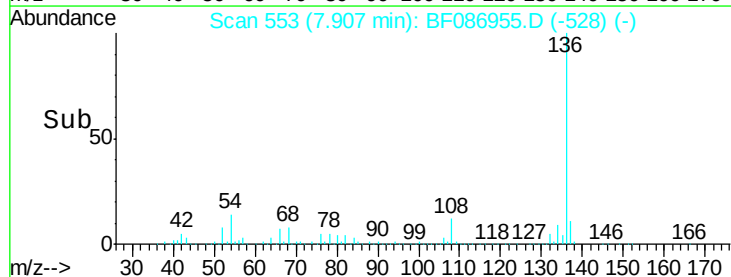
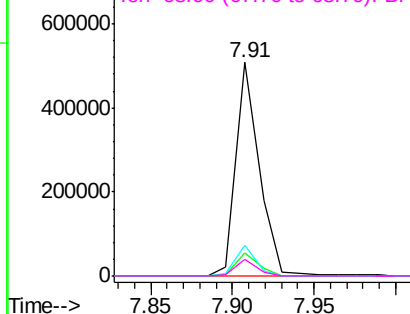
137 11.1 8.8 13.2

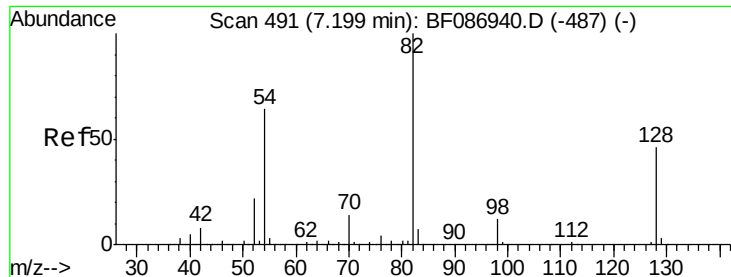
54 14.3 5.0 7.4#

68 7.9 4.4 6.6#



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





#23

Nitrobenzene-d5

Concen: 88.60 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.01 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

Instrument :

BNA_F

ClientSampleId :

E-13(5.5-6)RE

Tgt Ion: 82 Resp: 886051
Ion Ratio Lower Upper

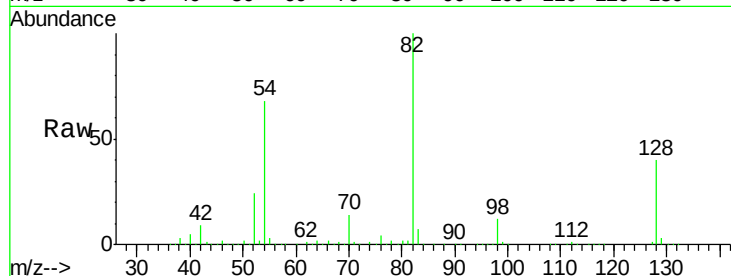
82 100

128 40.3 40.6 61.0#

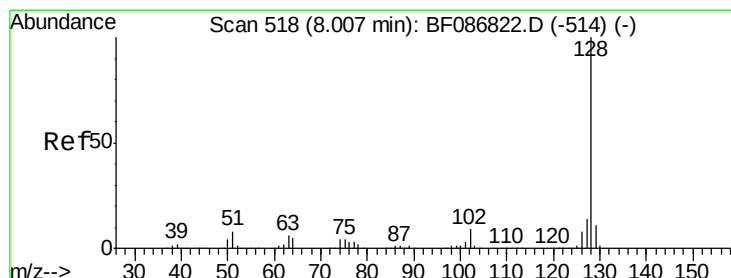
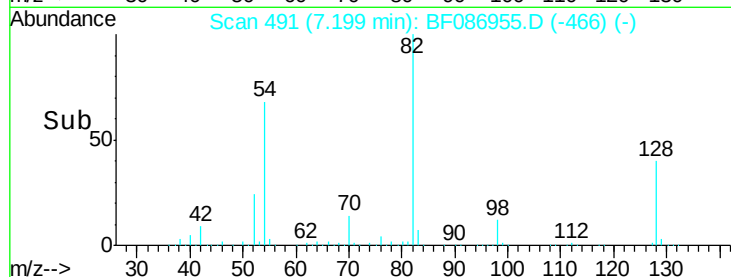
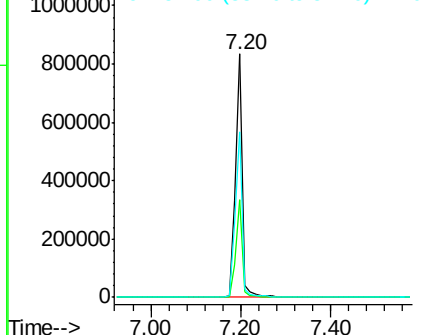
54 68.0 38.1 57.1#

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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: 9.13 ng

RT: 7.93 min Scan# 555

Delta R.T. -0.01 min

Lab File: BF086955.D

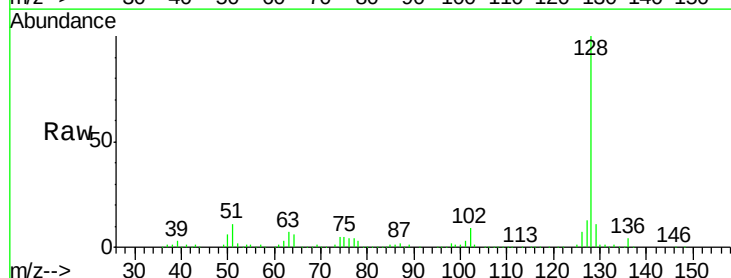
Acq: 13 May 2016 3:13

Tgt Ion: 128 Resp: 229705
Ion Ratio Lower Upper

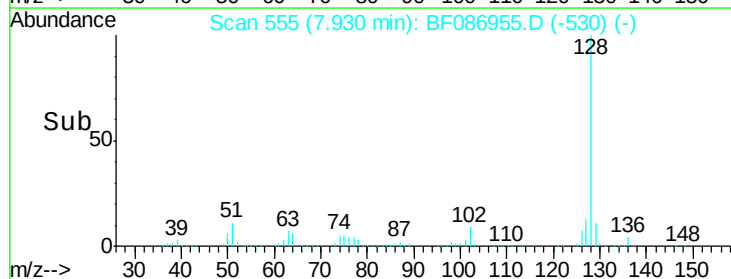
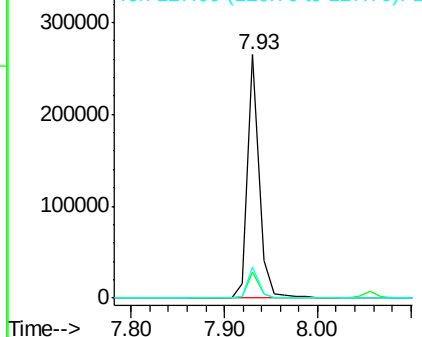
128 100

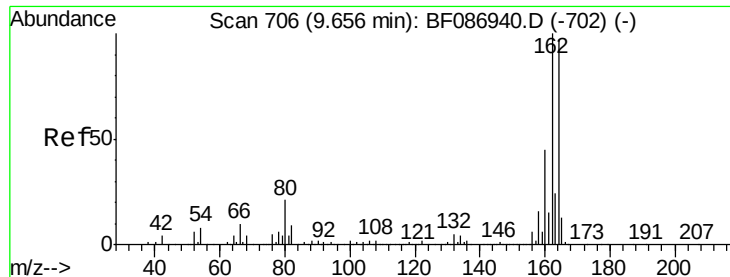
129 10.8 8.6 13.0

127 13.0 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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.01 min

Lab File: BF086955.D

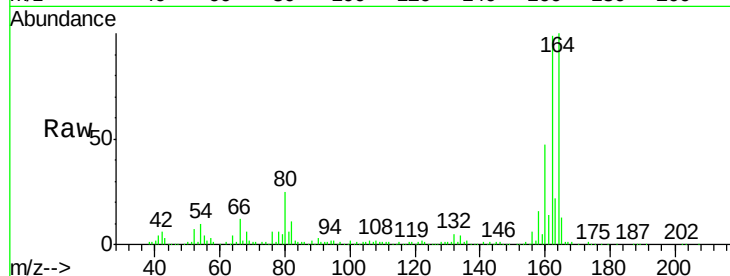
Acq: 13 May 2016 3:13

Instrument :

BNA_F

ClientSampleId :

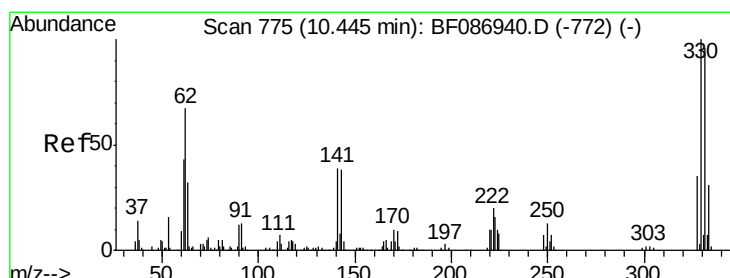
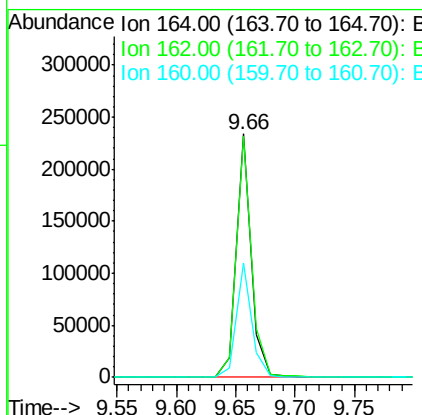
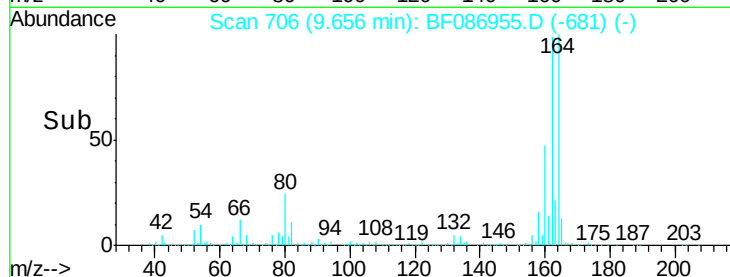
E-13(5.5-6)RE



Tgt Ion	Ratio	Resp	Lower	Upper
164	100	206282		
162	98.9	82.8	124.2	
160	46.8	36.9	55.3	

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#41

2,4,6-Tribromophenol

Concen: 92.30 ng

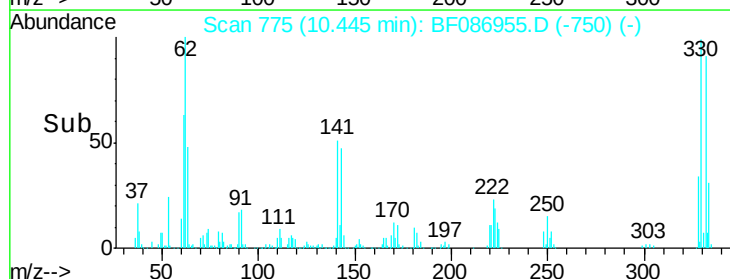
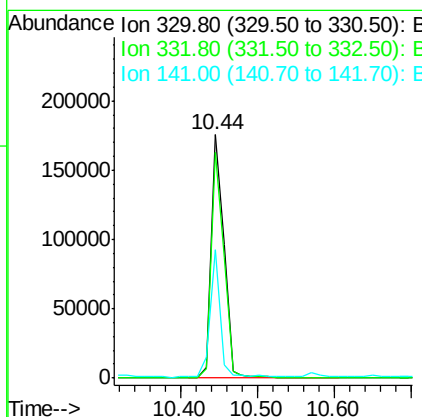
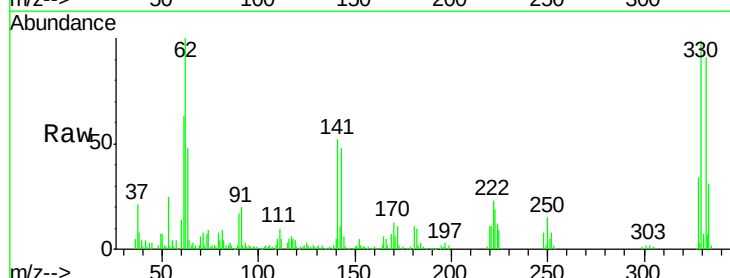
RT: 10.44 min Scan# 775

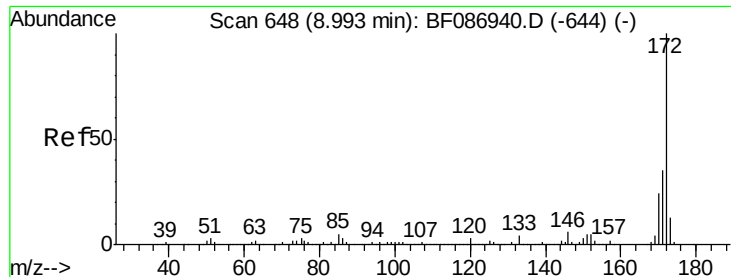
Delta R.T. -0.01 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	201576		
332	92.2	79.0	118.4	
141	41.8	31.2	46.8	





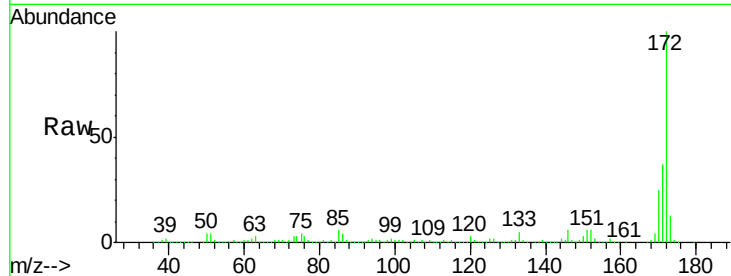
#44
2-Fluorobiphenyl
Concen: 91.20 ng
RT: 8.99 min Scan# 648
Delta R.T. 0.00 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)RE

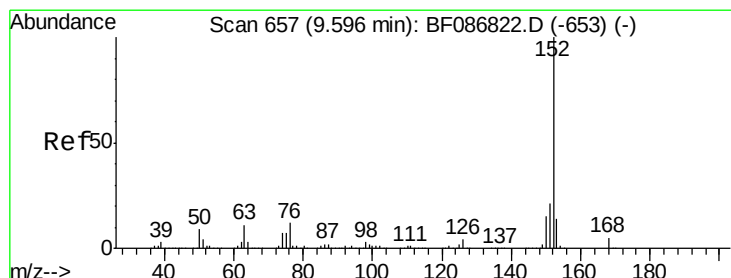
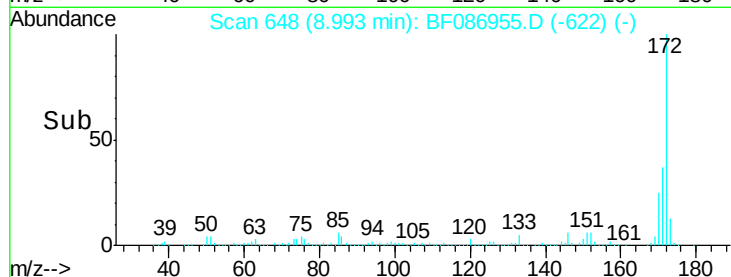
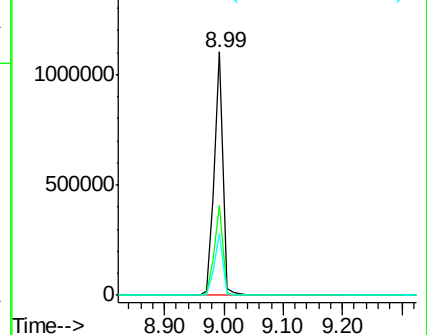
Tgt Ion:172 Resp: 1119417
Ion Ratio Lower Upper
172 100
171 37.1 29.0 43.6
170 25.2 19.8 29.8

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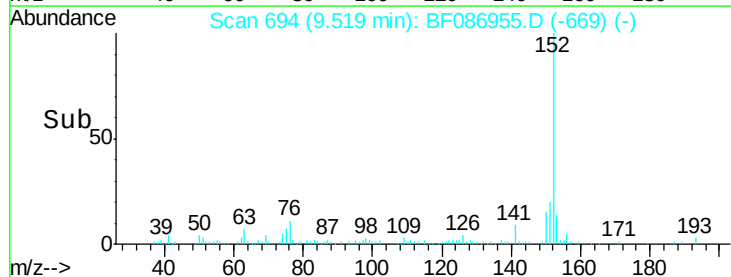
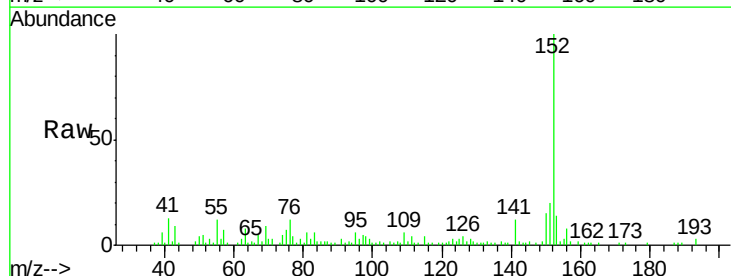
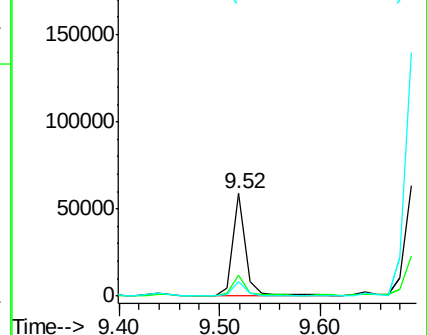
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

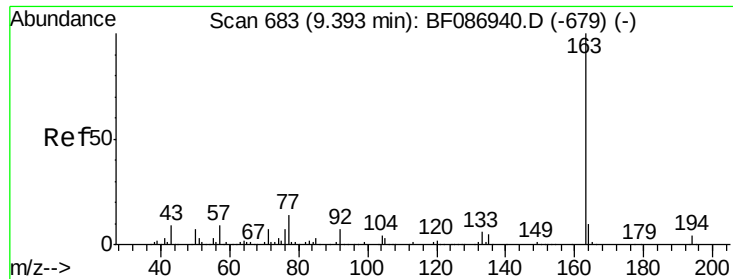


#48
Acenaphthylene
Concen: 2.77 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Tgt Ion:152 Resp: 52456
Ion Ratio Lower Upper
152 100
151 20.4 16.8 25.2
153 14.5 10.9 16.3

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





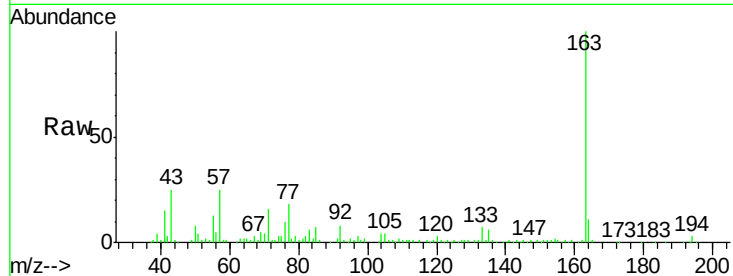
#49
Dimethylphthalate
Concen: 7.10 ng
RT: 9.39 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)RE

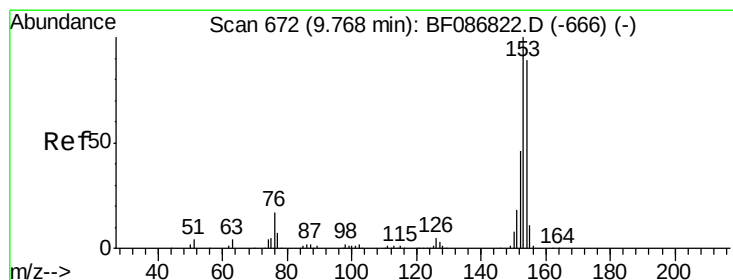
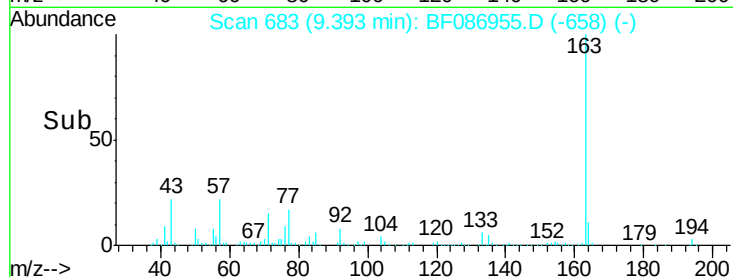
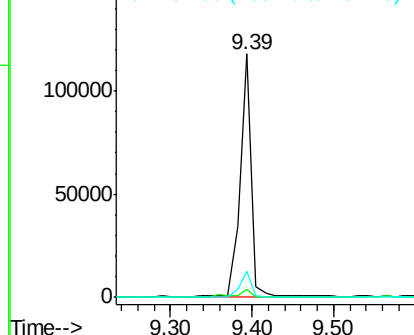
Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.4	2.6	4.0
164	10.6	8.2	12.4

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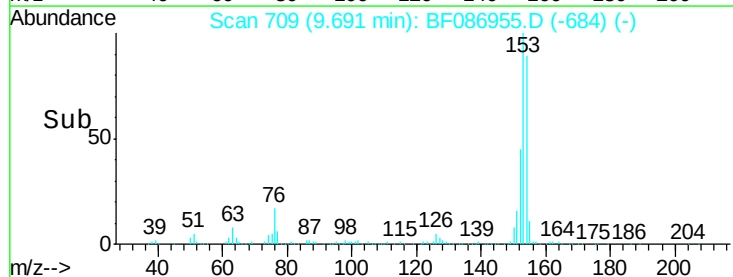
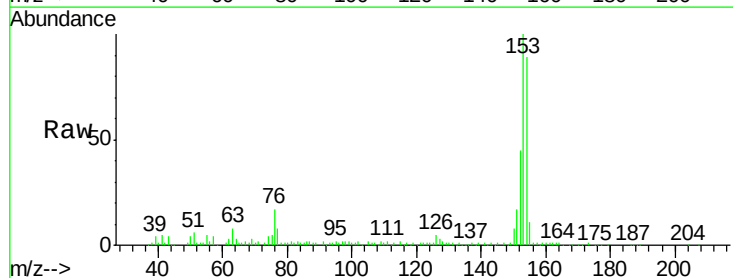
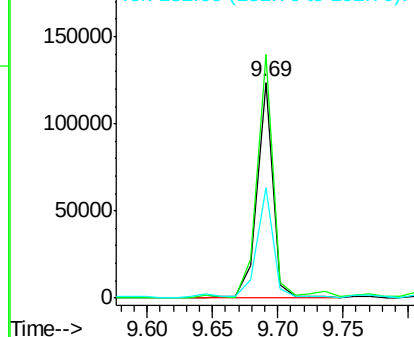
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

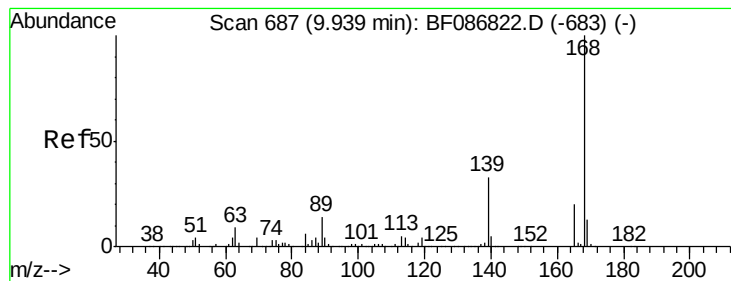


#51
Acenaphthene
Concen: 9.09 ng
RT: 9.69 min Scan# 709
Delta R.T. -0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	112.8	89.8	134.6
152	51.2	43.4	65.0

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: 4.83 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF086955.D

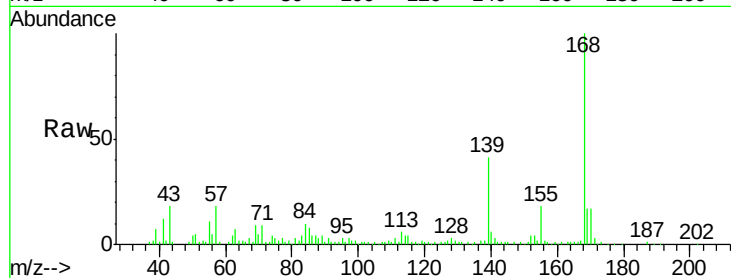
Acq: 13 May 2016 3:13

Instrument :

BNA_F

ClientSampleId :

E-13(5.5-6)RE



Tgt Ion:168 Resp: 72980

Ion Ratio Lower Upper

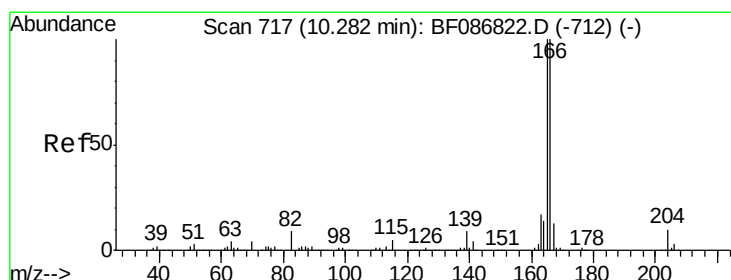
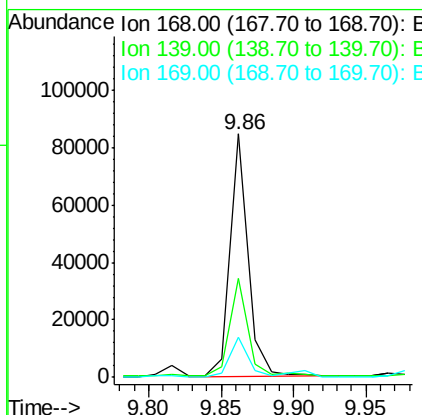
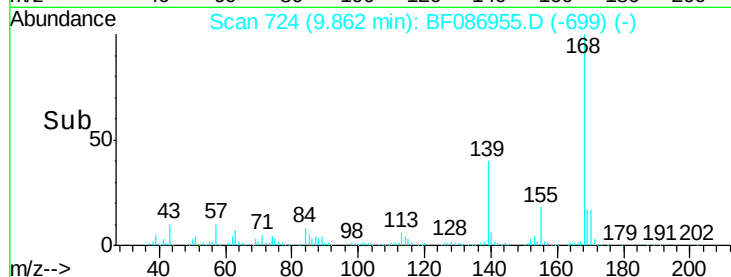
168 100

139 40.6 31.4 47.0

169 16.6 10.7 16.1#

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#57

Fluorene

Concen: 3.85 ng

RT: 10.20 min Scan# 754

Delta R.T. 0.00 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

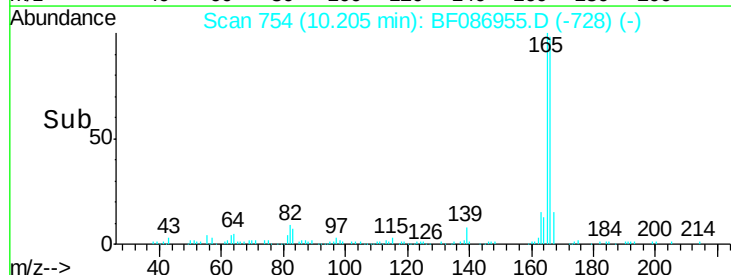
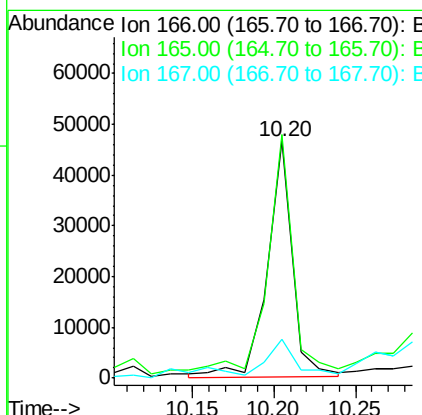
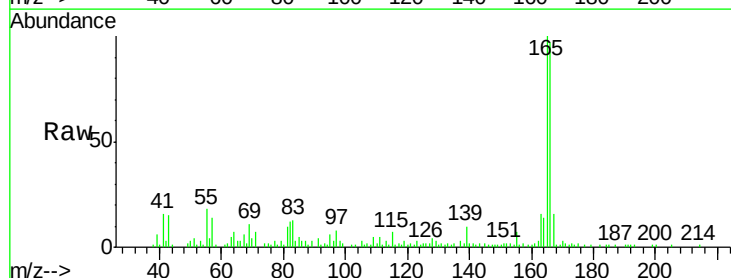
Tgt Ion:166 Resp: 49513

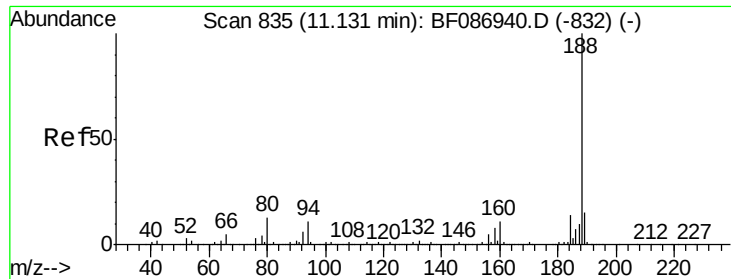
Ion Ratio Lower Upper

166 100

165 102.8 79.0 118.6

167 16.5 10.6 15.8#





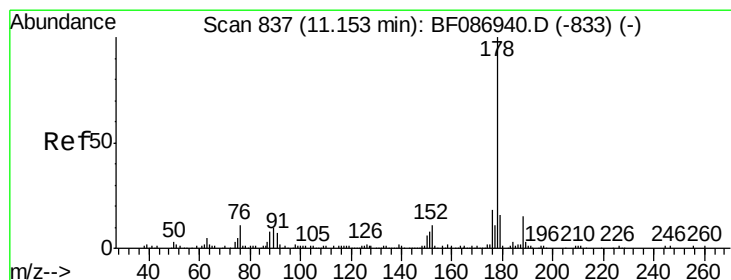
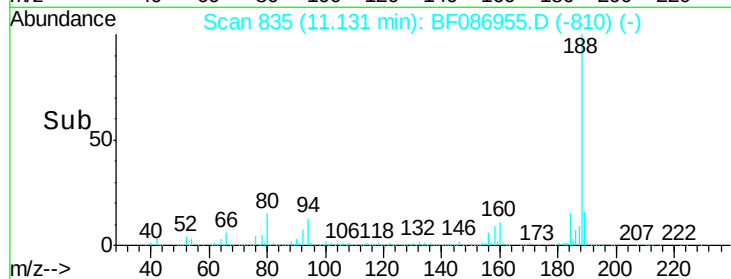
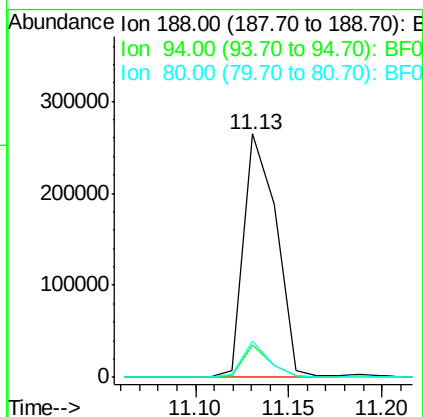
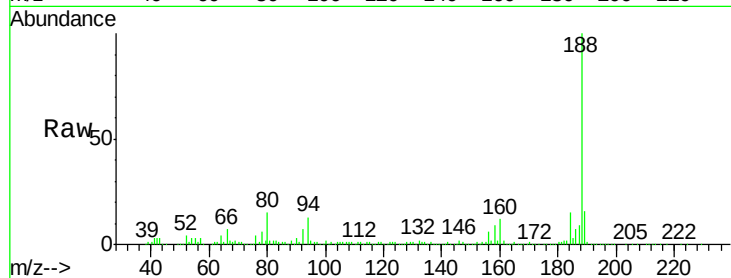
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	13.5	6.8	10.2#
80	14.9	7.1	10.7#

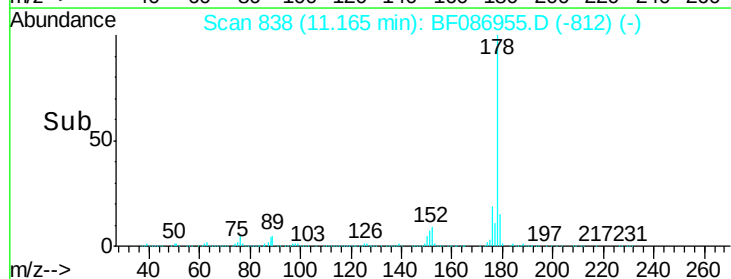
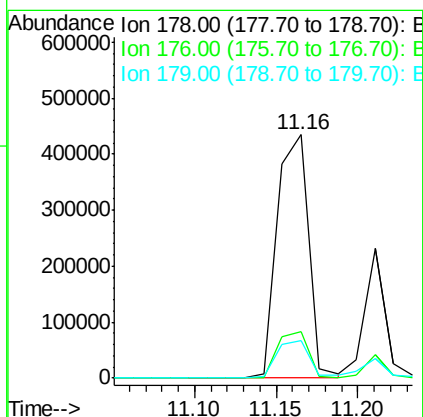
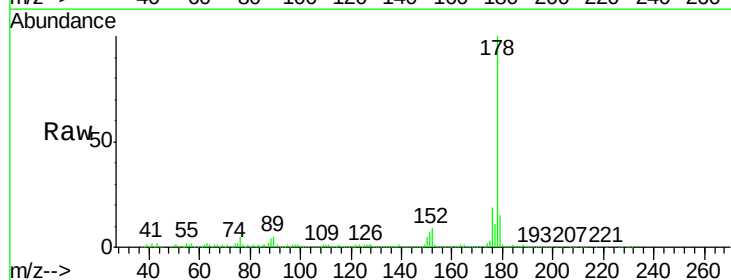
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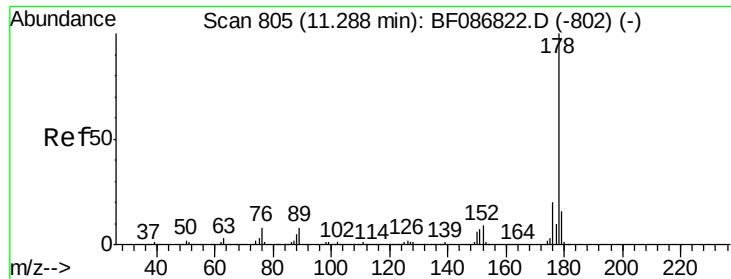
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#70
Phenanthrene
Concen: 33.60 ng
RT: 11.16 min Scan# 838
Delta R.T. 0.00 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.1	16.0	24.0
179	15.5	12.6	18.8





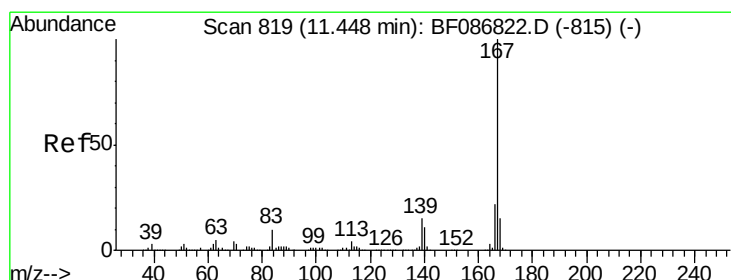
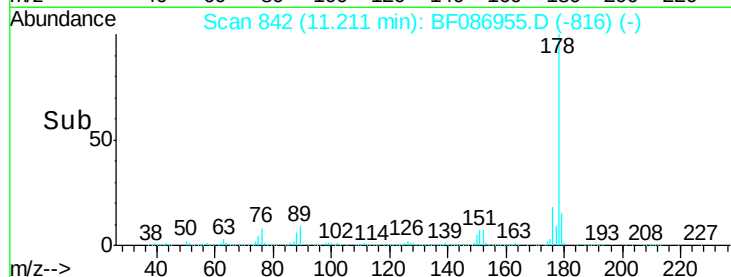
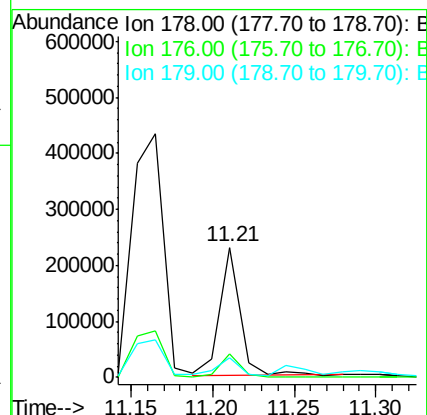
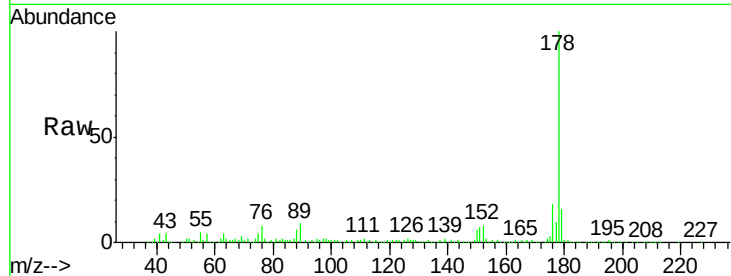
#71
 Anthracene
 Concen: 11.32 ng
 RT: 11.21 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: BF086955.D
 Acq: 13 May 2016 3:13

Instrument :
 BNA_F
 ClientSampleId :
 E-13(5.5-6)RE

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	199924		
176	18.3	15.6	23.4	
179	15.5	12.7	19.1	

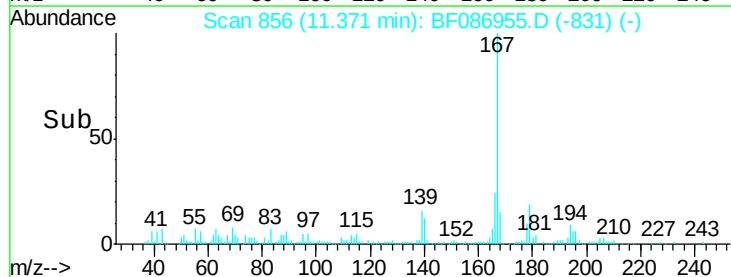
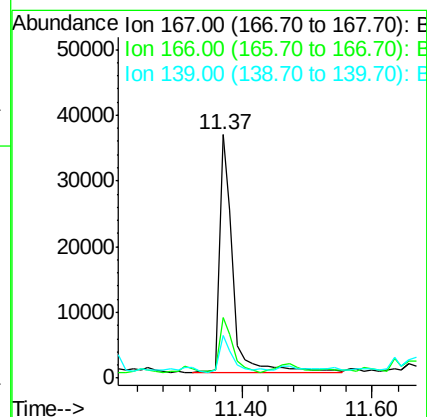
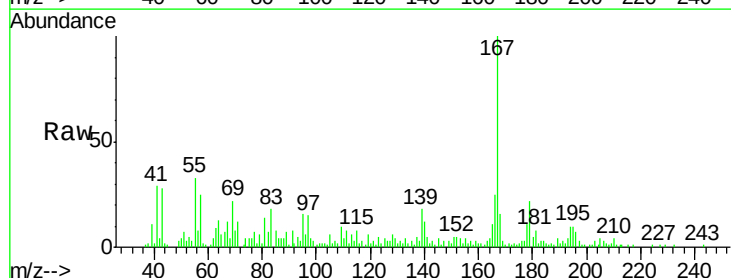
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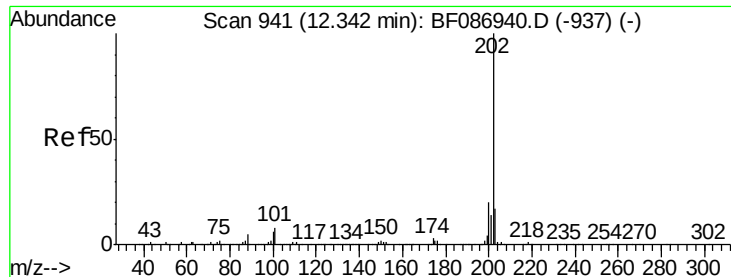
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#72
 Carbazole
 Concen: 3.38 ng
 RT: 11.37 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: BF086955.D
 Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	51324		
166	25.1	17.7	26.5	
139	17.7	10.8	16.2	





#74

Fluoranthene

Concen: 55.61 ng

RT: 12.34 min Scan# 941

Delta R.T. 0.00 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

Instrument :

BNA_F

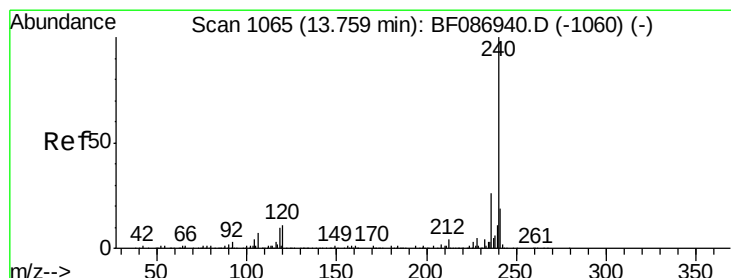
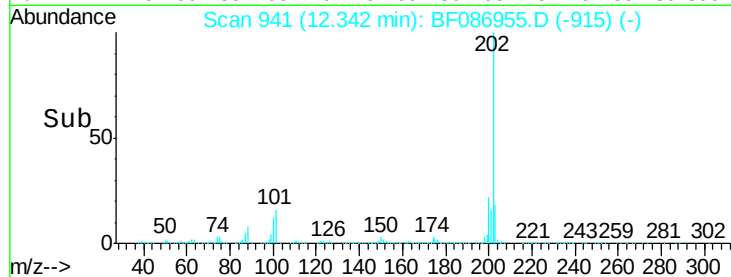
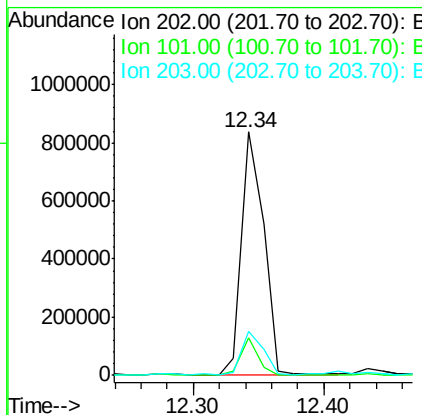
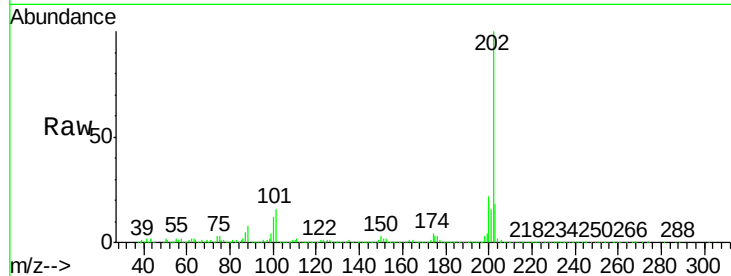
ClientSampleId :

E-13(5.5-6)RE

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		987512		
101	15.7	0.0	35.4		
203	18.0	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.00 ng

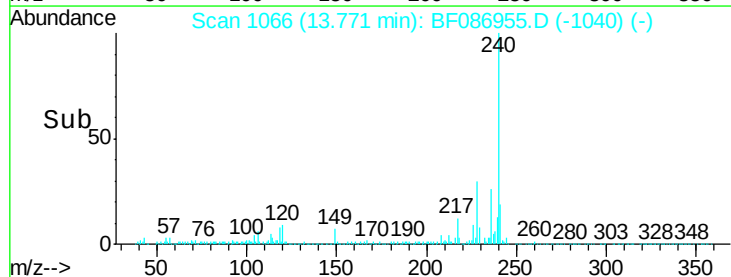
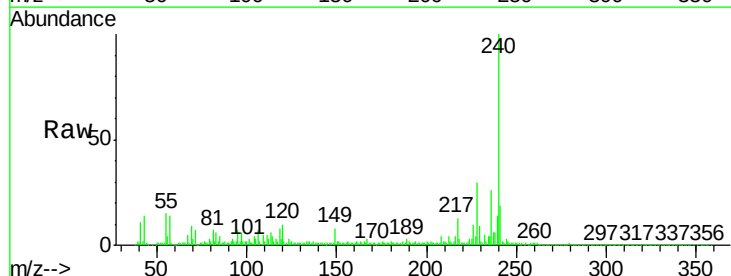
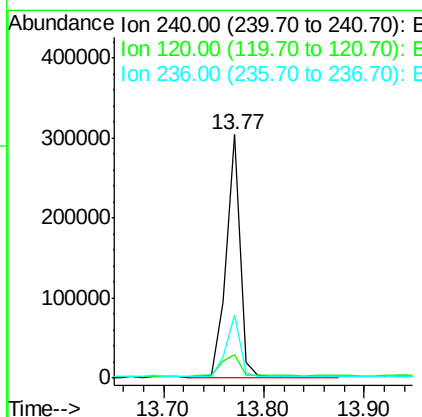
RT: 13.77 min Scan# 1066

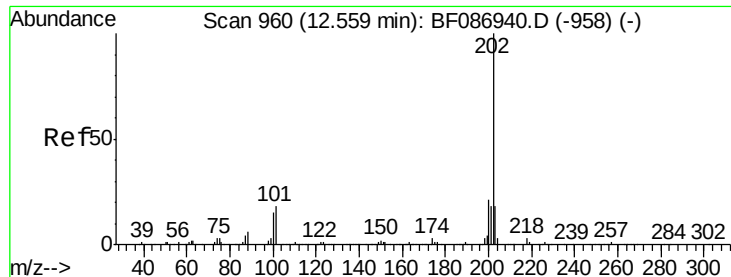
Delta R.T. 0.00 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		291053		
120	9.8	11.2	16.8#		
236	26.1	21.2	31.8		





#77

Pyrene

Concen: 41.84 ng

RT: 12.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: BF086955.D

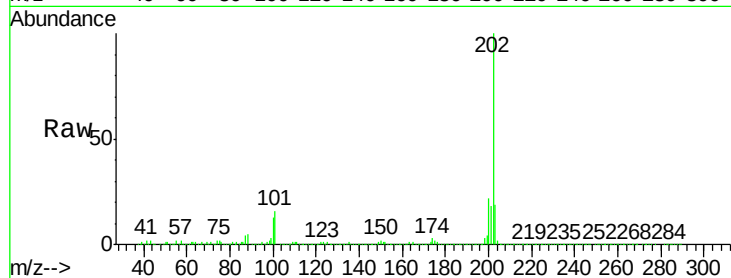
Acq: 13 May 2016 3:13

Instrument :

BNA_F

ClientSampleId :

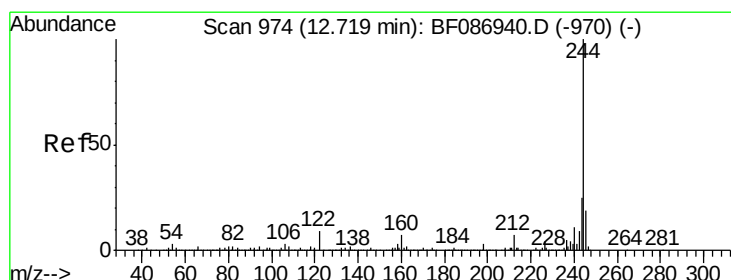
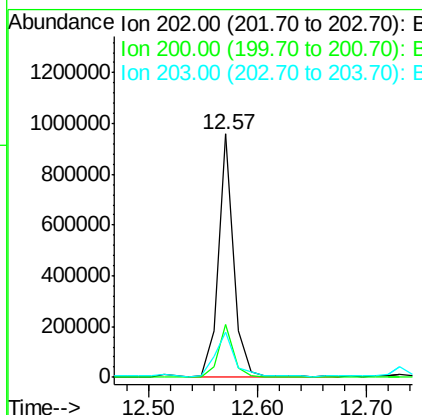
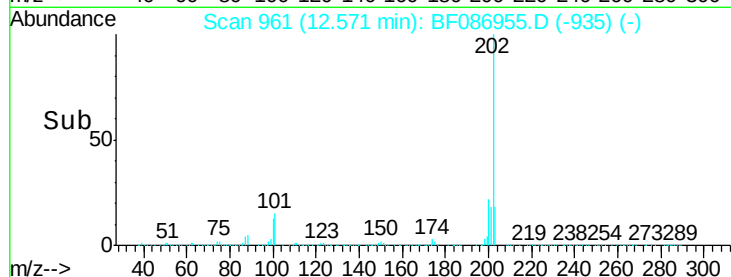
E-13(5.5-6)RE



Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.7		17.7	26.5
203	18.6		14.2	21.4

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#78

Terphenyl-d14

Concen: 54.91 ng

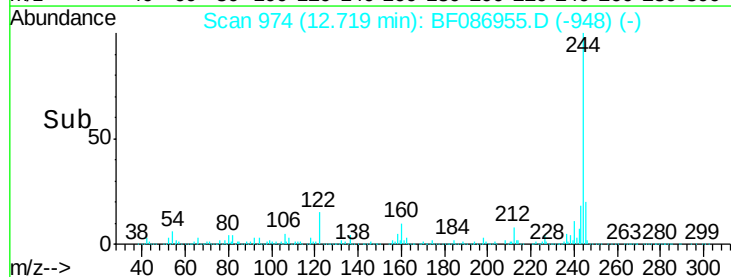
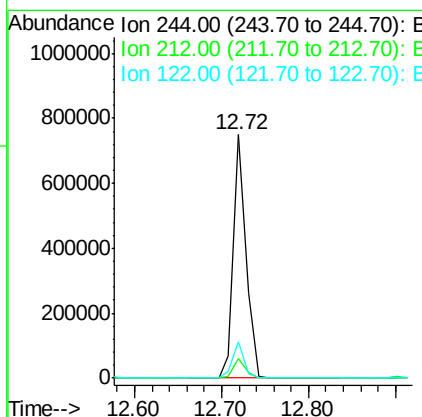
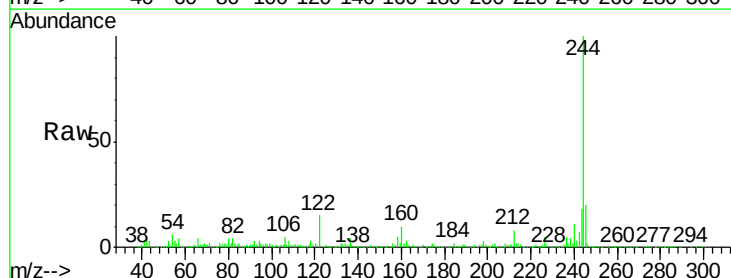
RT: 12.72 min Scan# 974

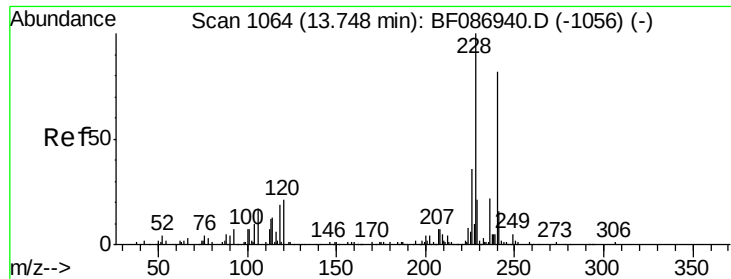
Delta R.T. 0.00 min

Lab File: BF086955.D

Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.1		6.2	9.2
122	14.7		12.0	18.0





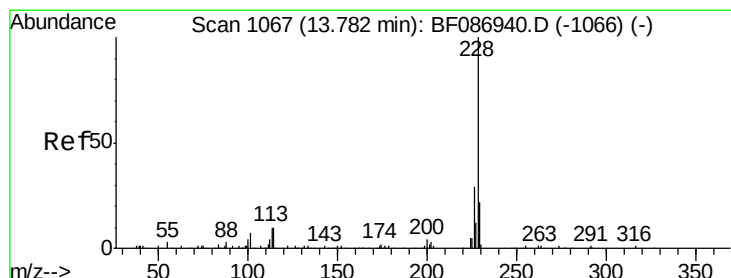
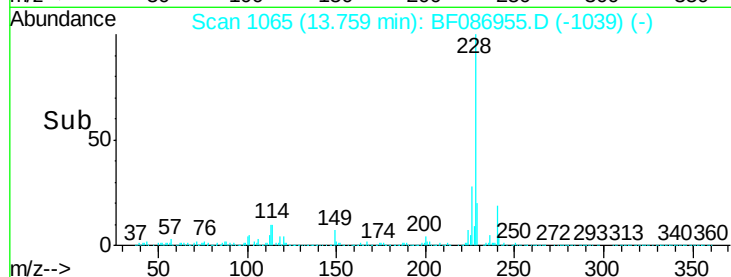
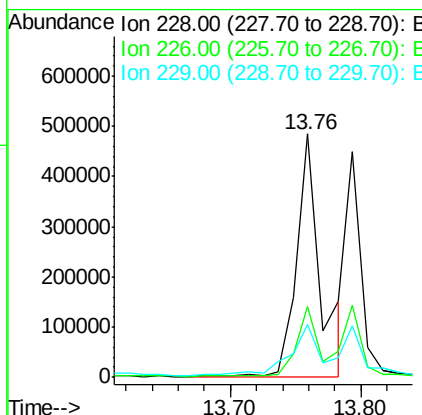
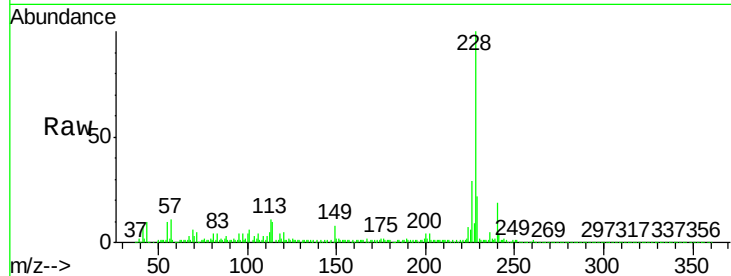
#80
Benzo(a)anthracene
Concen: 37.69 ng
RT: 13.76 min Scan# 1065
Delta R.T. 0.00 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)RE

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.5	33.7
229	21.6	16.6	25.0

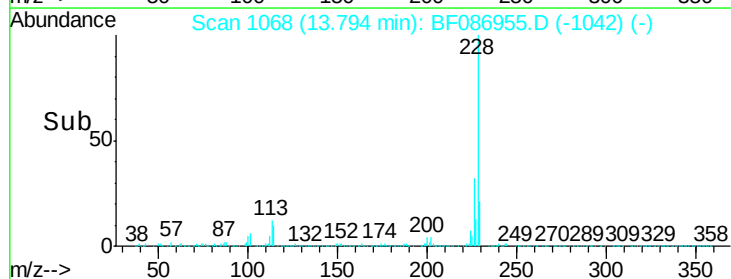
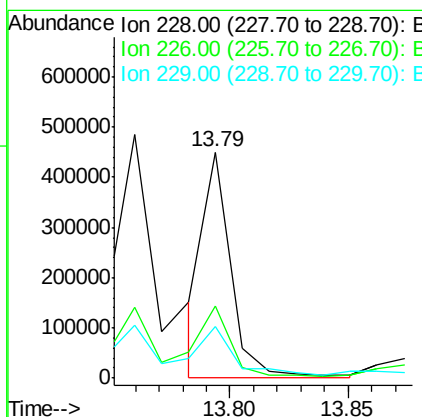
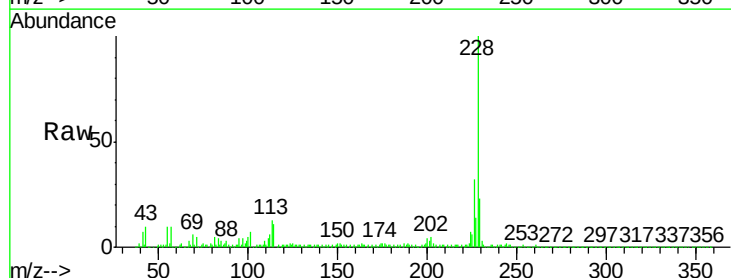
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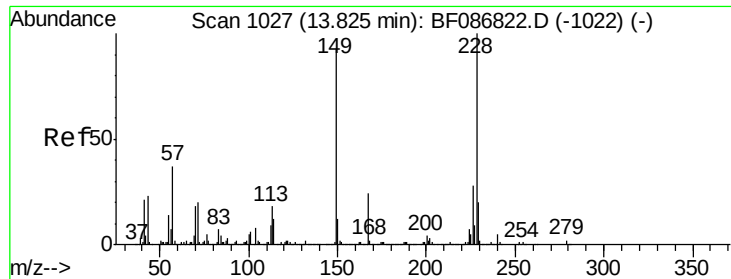
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#82
Chrysene
Concen: 22.29 ng m
RT: 13.79 min Scan# 1068
Delta R.T. 0.00 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.4	36.6
229	22.7	15.8	23.8





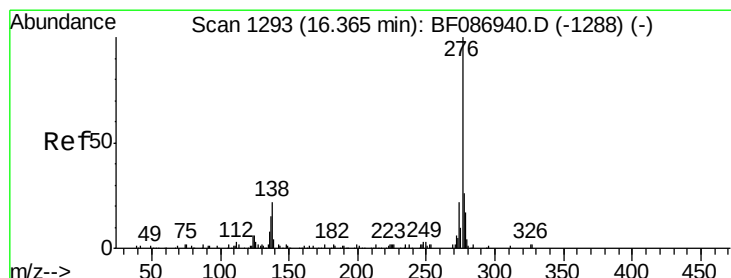
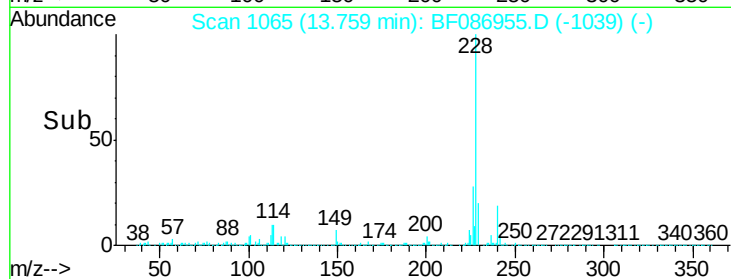
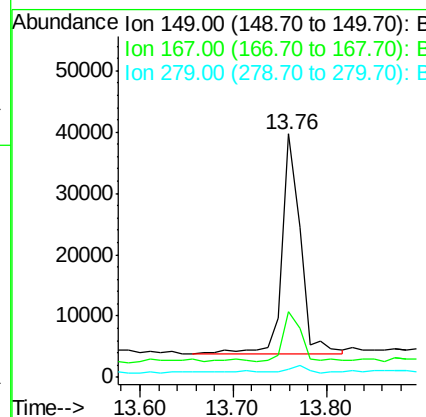
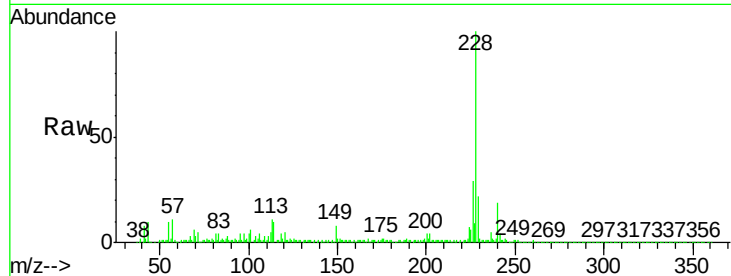
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.24 ng
 RT: 13.76 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: BF086955.D
 Acq: 13 May 2016 3:13

Instrument :
 BNA_F
 ClientSampleId :
 E-13(5.5-6)RE

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	48098		
167	27.1	21.8	32.6	
279	3.4	2.6	4.0	

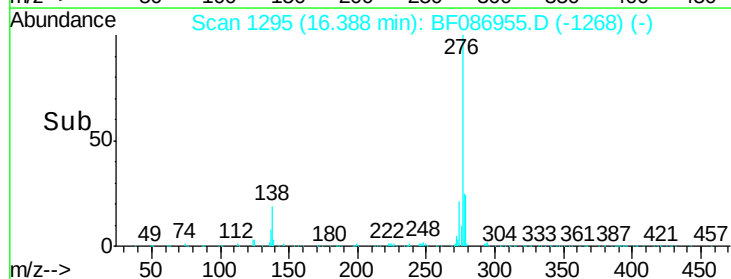
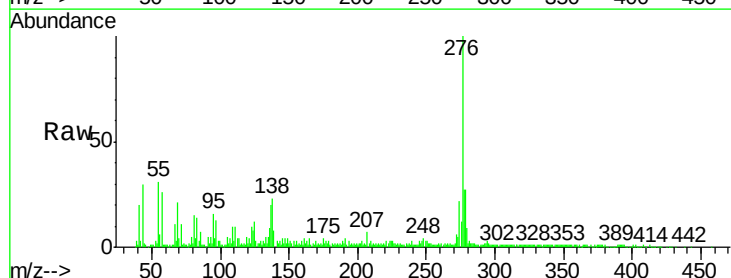
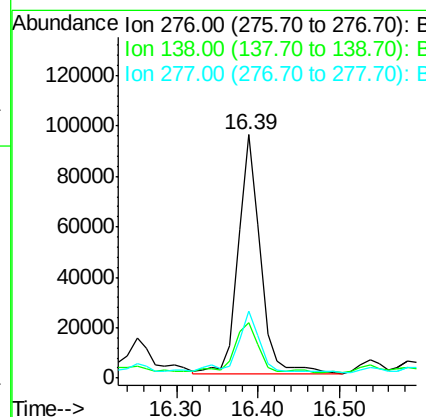
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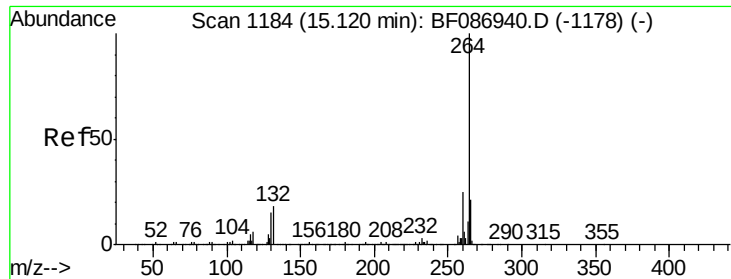
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.86 ng
 RT: 16.39 min Scan# 1295
 Delta R.T. 0.01 min
 Lab File: BF086955.D
 Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	177781		
138	21.2	25.6	38.4#	
277	25.5	20.5	30.7	





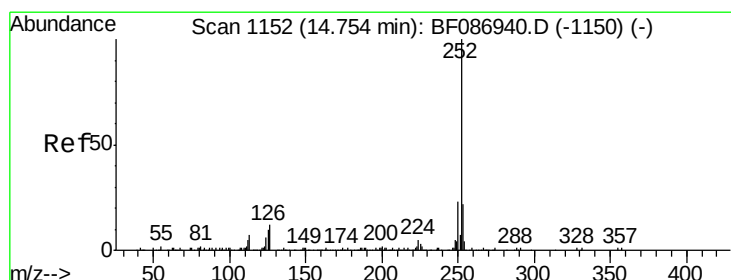
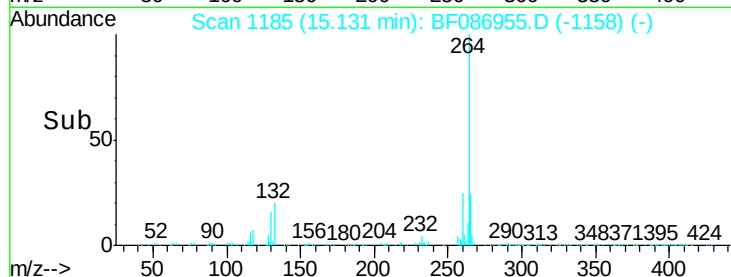
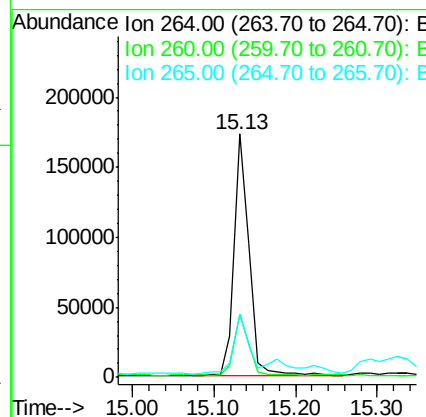
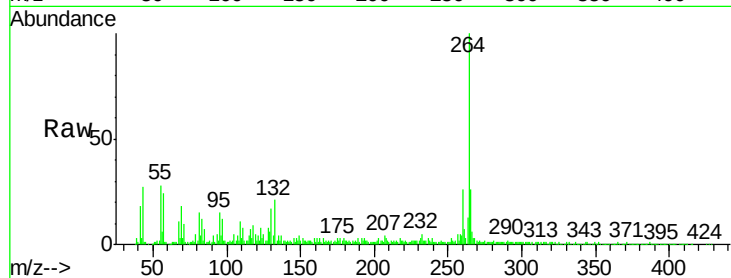
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.13 min Scan# 1185
Delta R.T. 0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)RE

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	218762		
260	26.0	19.5	29.3	
265	25.7	17.3	25.9	

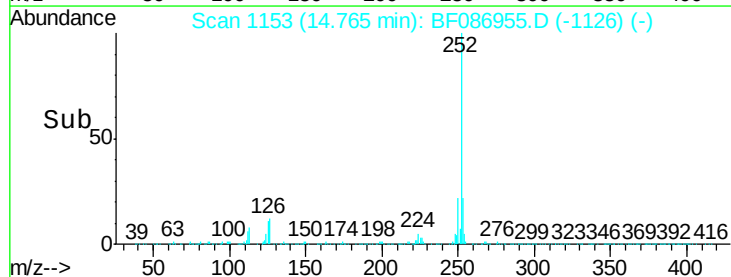
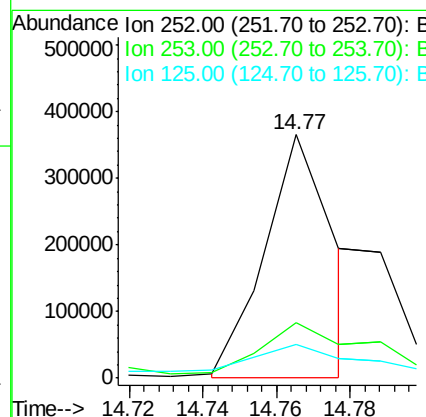
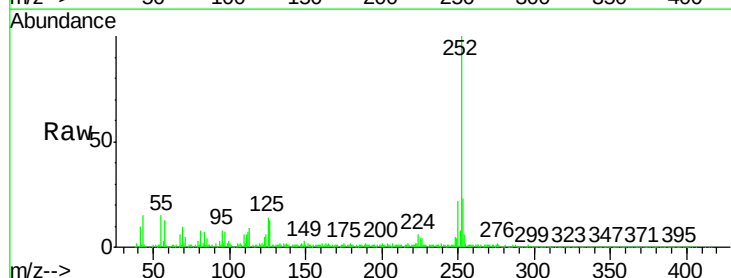
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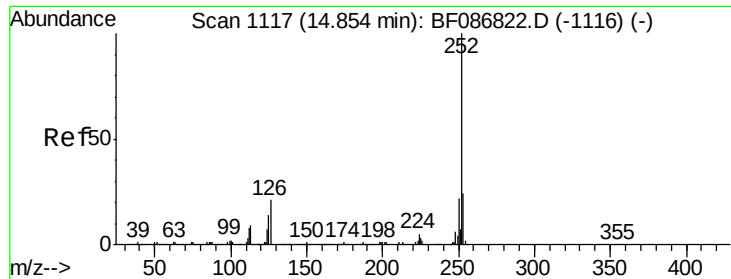
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#87
Benzo(b)fluoranthene
Concen: 33.37 ng m
RT: 14.77 min Scan# 1153
Delta R.T. 0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	474372		
253	22.8	17.8	26.6	
125	13.7	11.4	17.0	





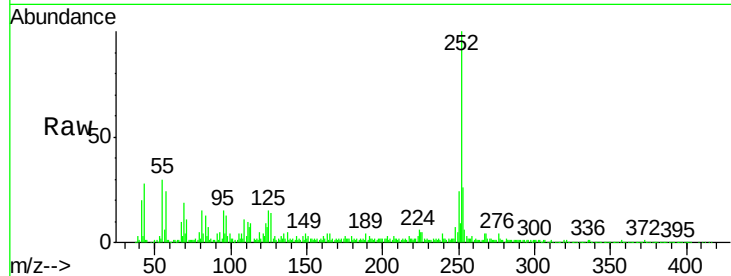
#88
Benzo(k)fluoranthene
Concen: 14.00 ng m
RT: 14.78 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)RE

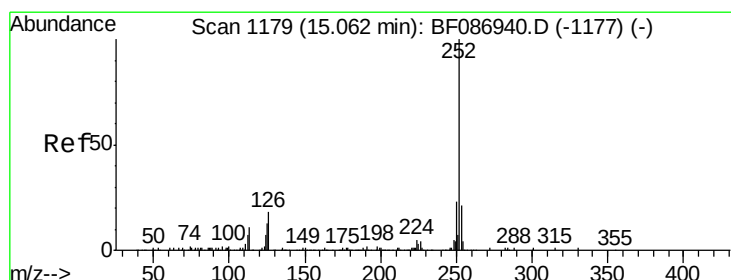
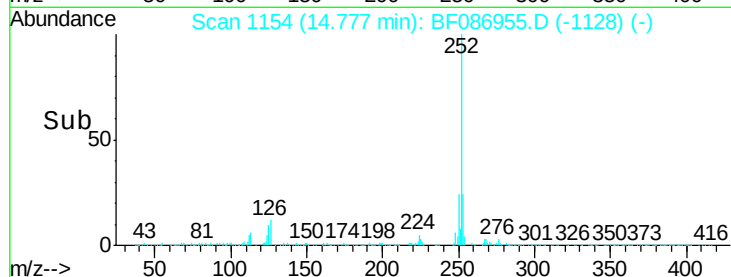
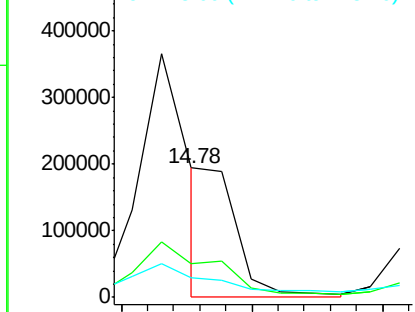
Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	26.0	17.8	26.6
125	15.2	9.1	13.7

Manual Integrations
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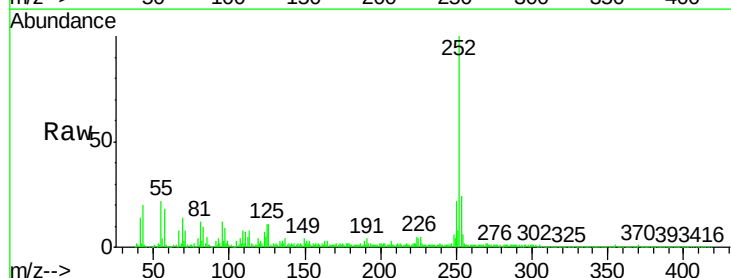


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

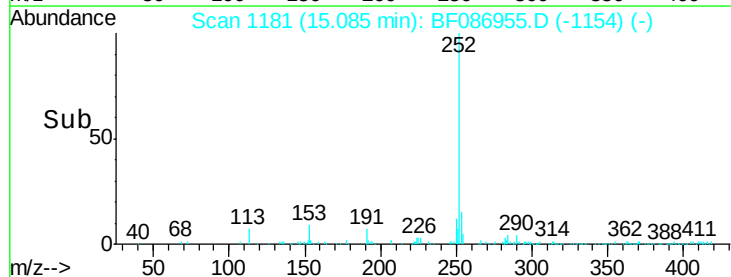
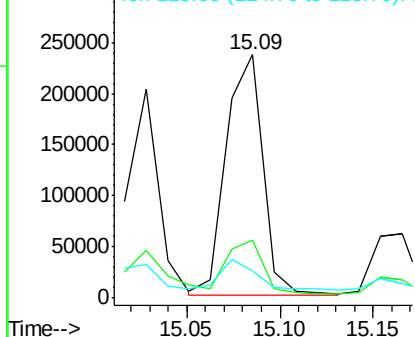


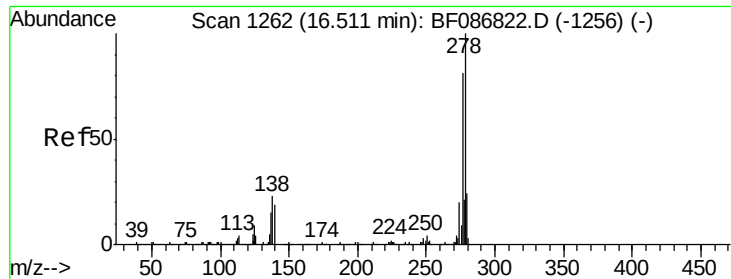
#89
Benzo(a)pyrene
Concen: 26.48 ng
RT: 15.09 min Scan# 1181
Delta R.T. 0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.0	17.2	25.8
125	11.2	9.0	13.6



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





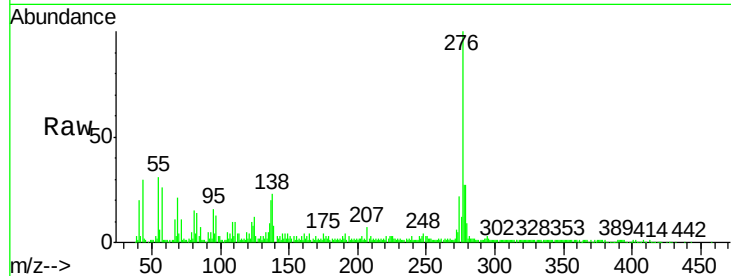
#90
Dibenzo(a,h)anthracene
Concen: 5.49 ng
RT: 16.39 min Scan# 1295
Delta R.T. 0.00 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)RE

Tgt Ion	Ratio	Lower	Upper
278	100		
139	29.1	16.6	24.8#
279	33.0	19.6	29.4#

Manual Integrations
APPROVED

sohil
5/13/2016 8:08:12 PM

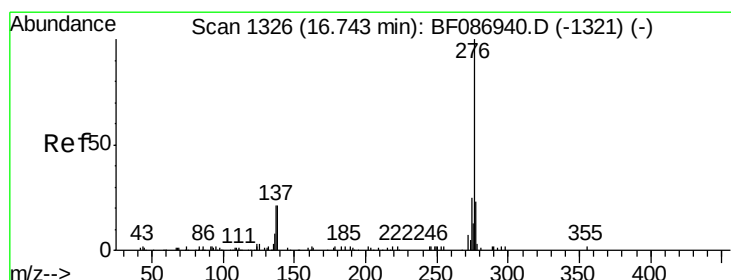
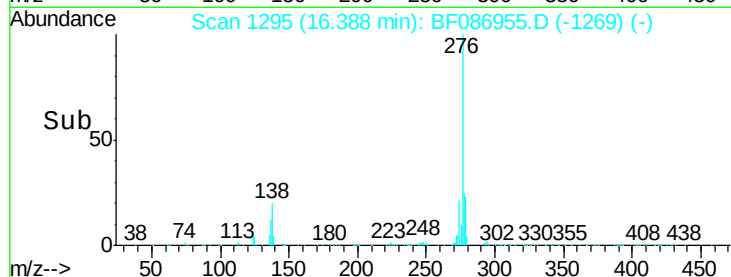
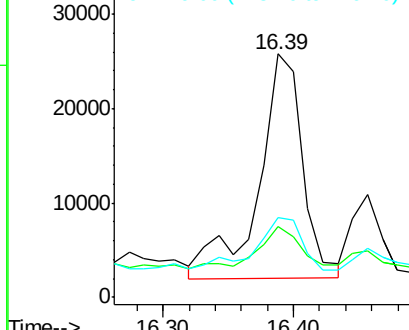


Abundance

Ion 278.00 (277.70 to 278.70): E

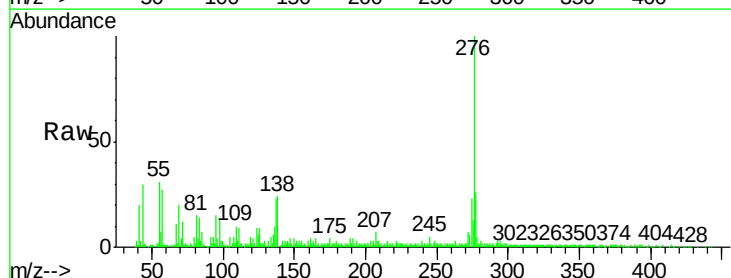
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 15.30 ng
RT: 16.77 min Scan# 1328
Delta R.T. 0.01 min
Lab File: BF086955.D
Acq: 13 May 2016 3:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.6	29.4
138	24.4	23.6	35.4



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

