

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\
 Data File : BF085245.D
 Acq On : 5 Mar 2016 10:57
 Operator : SJ/IZ
 Sample : H1675-01 5X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)

Manual Integrations
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 3/7/2016 9:33:37 AM

Quant Time: Mar 07 07:19:11 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 00:54:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	27780	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	110738	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	43704	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	69756	20.00	ng	-0.01
75) Chrysene-d12	14.14	240	49445	20.00	ng	-0.01
86) Perylene-d12	15.60	264	54965	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	214389	129.45	ng	-0.01
7) Phenol-d6	6.58	99	284956	131.33	ng	-0.02
23) Nitrobenzene-d5	7.52	82	139987	67.65	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	32835	87.80	ng	-0.01
44) 2-Fluorobiphenyl	9.33	172	269716	93.86	ng	-0.02
78) Terphenyl-d14	13.08	244	171553	80.54	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.28	128	44511	8.17	ng	97
37) 2-Methylnaphthalene	8.96	142	16825	4.82	ng	96
45) 1,1'-Biphenyl	9.43	154	8161	2.19	ng	97
48) Acenaphthylene	9.88	152	11685	2.64	ng	95
49) Dimethylphthalate	9.72	163	33957	10.12	ng	97
51) Acenaphthene	10.05	154	67444	25.08	ng	97
54) Dibenzofuran	10.22	168	47913	13.60	ng	91
57) Fluorene	10.56	166	53573	19.35	ng	100
70) Phenanthrene	11.52	178	754352	206.35	ng	98
71) Anthracene	11.57	178	206817	53.29	ng	98
72) Carbazole	11.73	167	69358	20.38	ng	96
74) Fluoranthene	12.71	202	1008793	274.97	ng	98
77) Pyrene	12.94	202	932361	250.53	ng	98
80) Benzo(a)anthracene	14.13	228	545389	184.25	ng	99
82) Chrysene	14.16	228	471866m	172.56	ng	
85) Indeno(1,2,3-cd)pyrene	17.08	276	239050	112.02	ng	91
87) Benzo(b)fluoranthene	15.18	252	578340m	157.86	ng	
88) Benzo(k)fluoranthene	15.20	252	229587m	77.69	ng	
89) Benzo(a)pyrene	15.55	252	392278	129.21	ng	# 95
90) Dibenzo(a,h)anthracene	17.09	278	57335	22.12	ng	97
91) Benzo(g,h,i)perylene	17.52	276	210681	80.85	ng	99

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

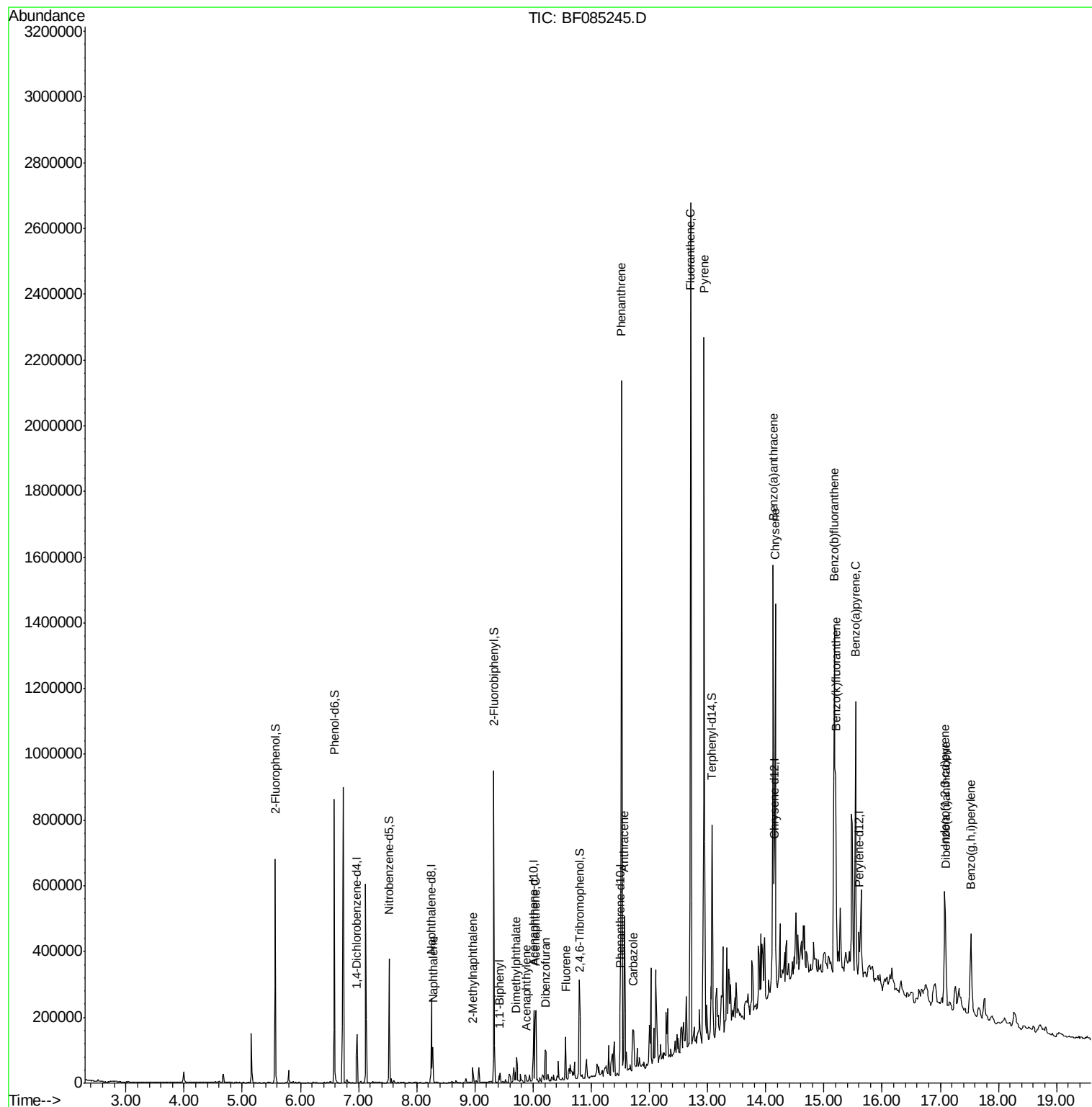
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\
Data File : BF085245.D
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Operator : SJ/IZ
Sample : H1675-01 5X
Misc :
ALS Vial : 42 Sample Multiplier: 1

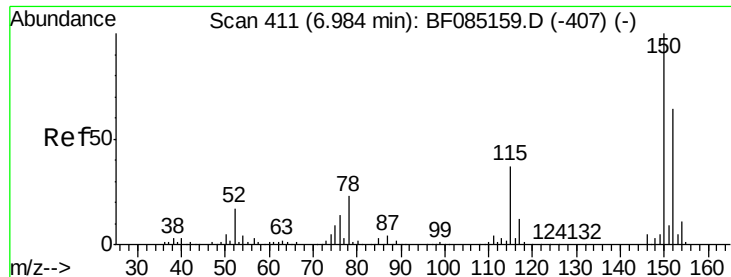
Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)

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Quant Time: Mar 07 07:19:11 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030316.M
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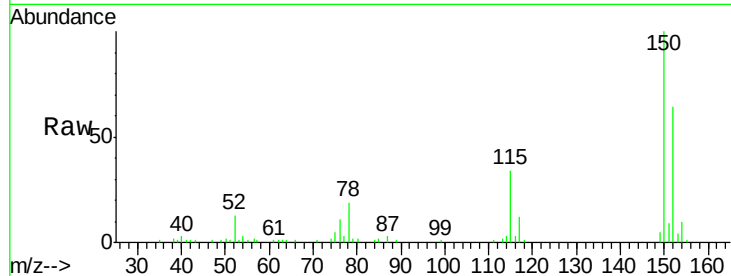
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.97 min Scan# 410
 Delta R.T. -0.01 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)

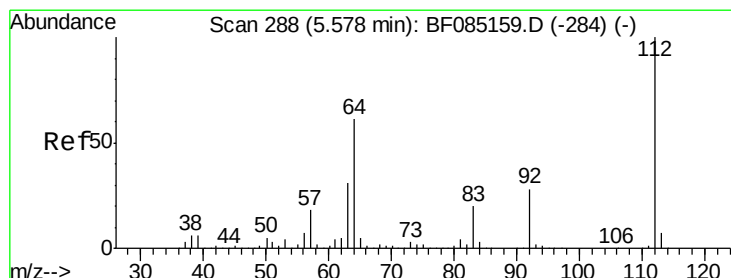
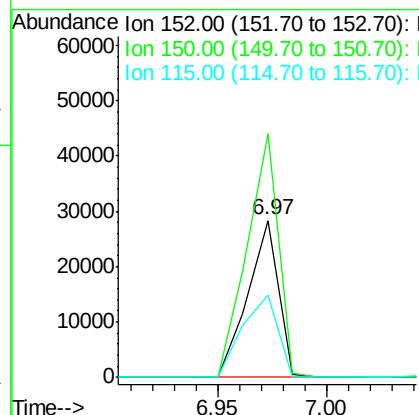
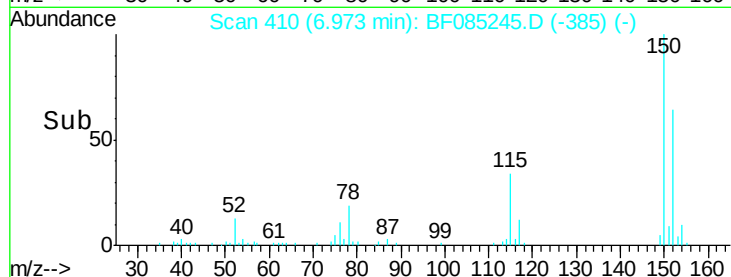
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.6	186.8
115	52.6	46.6	70.0

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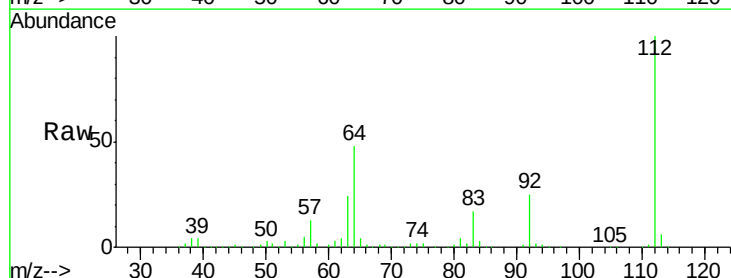


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

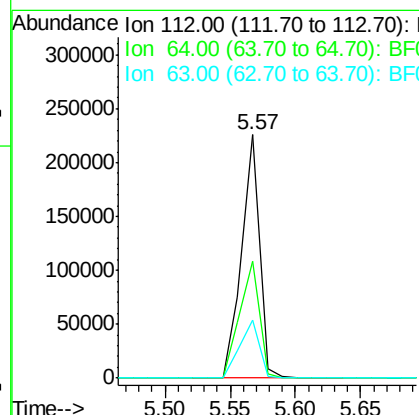
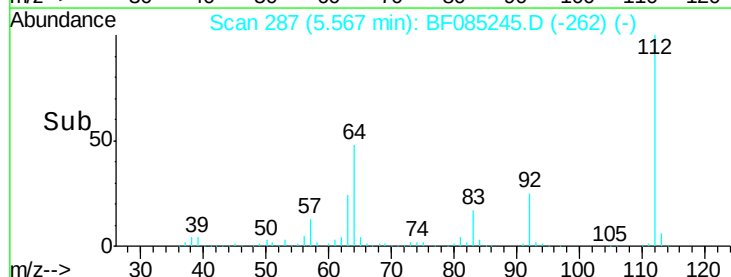


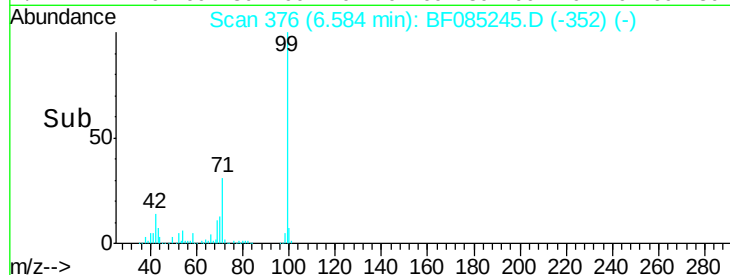
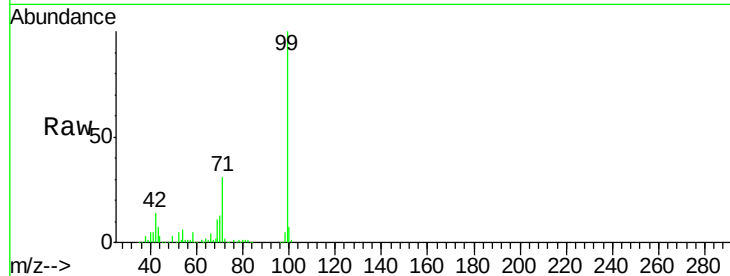
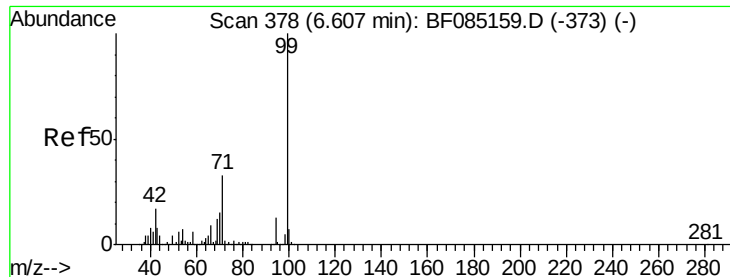
#5
 2-Fluorophenol
 Concen: 129.45 ng
 RT: 5.57 min Scan# 287
 Delta R.T. -0.01 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.3	49.0	73.4#
63	23.6	24.8	37.2#



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: 131.33 ng

RT: 6.58 min Scan# 376

Delta R.T. -0.02 min

Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		284956		
42	14.1	13.6	20.4		
71	30.6	26.7	40.1		

Instrument :

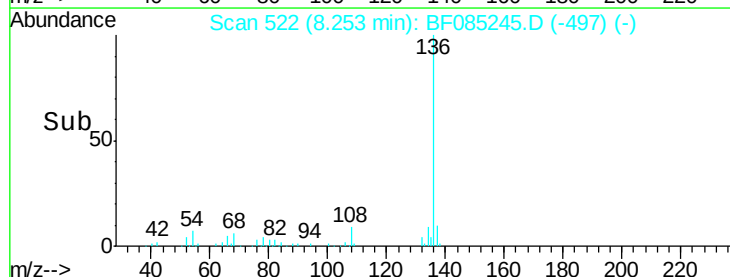
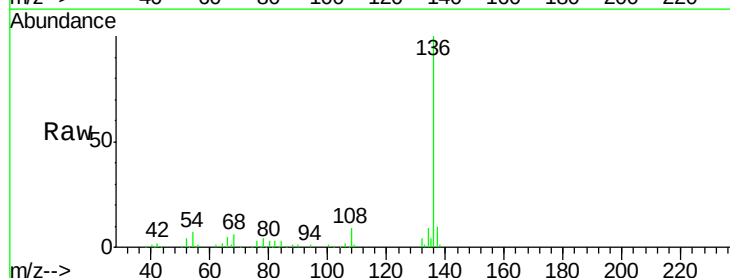
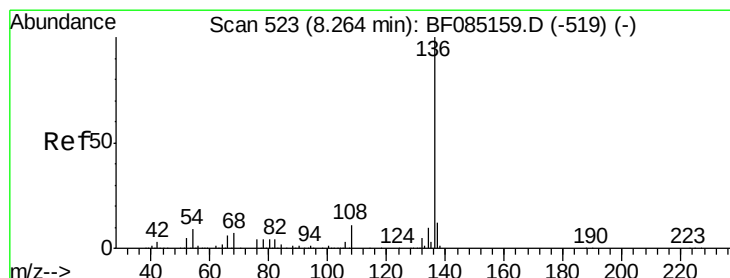
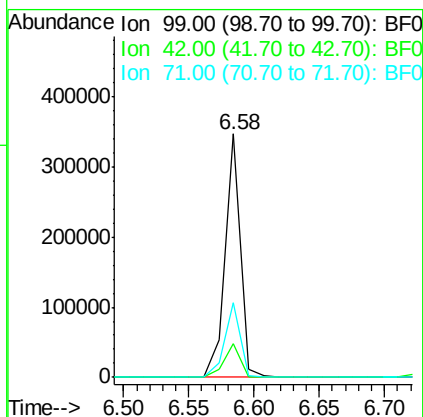
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ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.00 ng

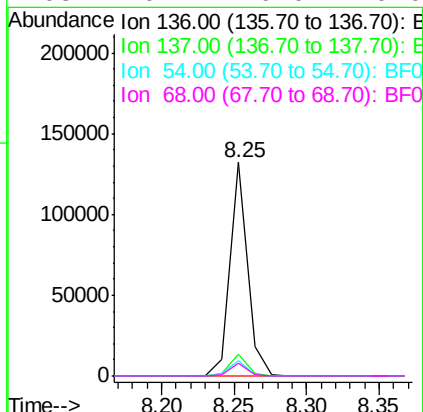
RT: 8.25 min Scan# 522

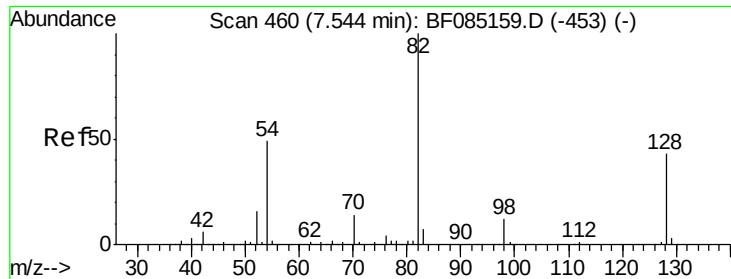
Delta R.T. -0.01 min

Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		110738		
137	10.5	9.3	13.9		
54	6.9	7.4	11.2#		
68	6.1	6.0	9.0		





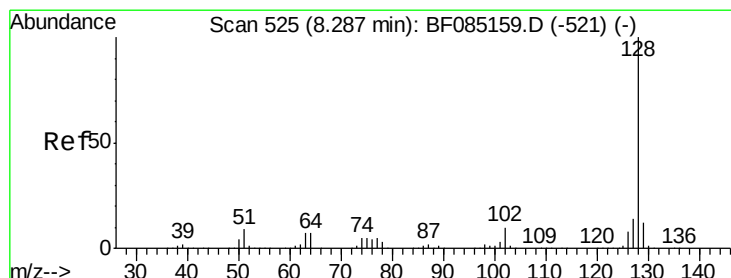
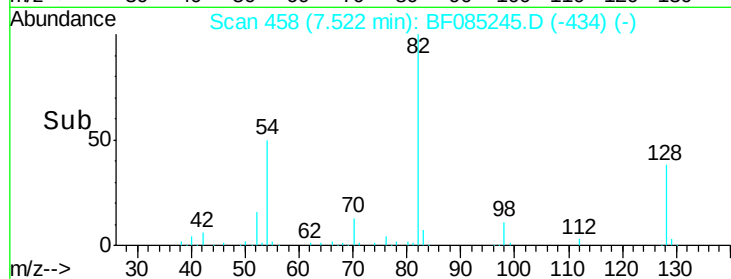
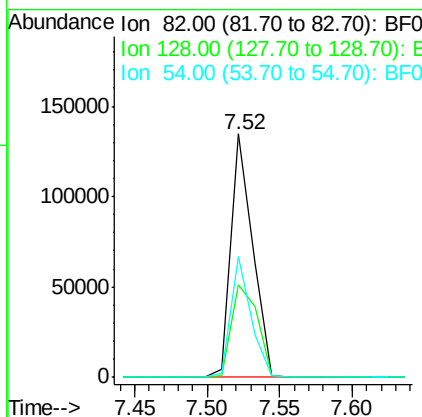
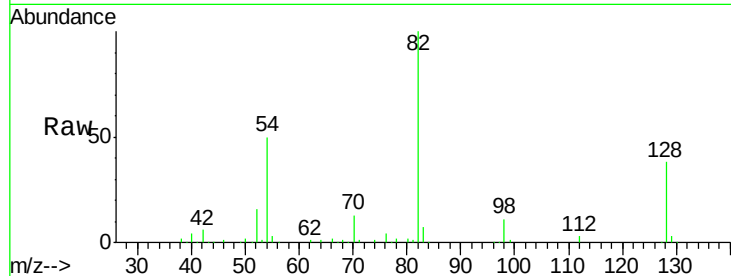
#23
 Nitrobenzene-d5
 Concen: 67.65 ng
 RT: 7.52 min Scan# 458
 Delta R.T. -0.02 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.8	34.5	51.7
54	49.8	39.3	58.9

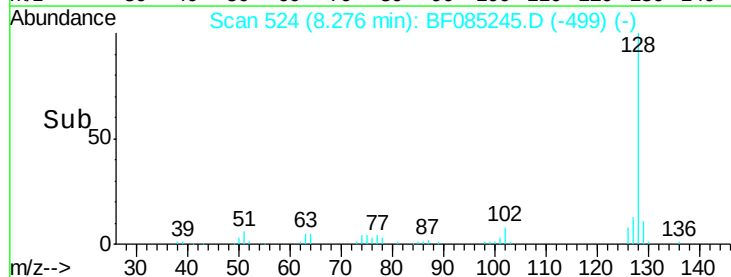
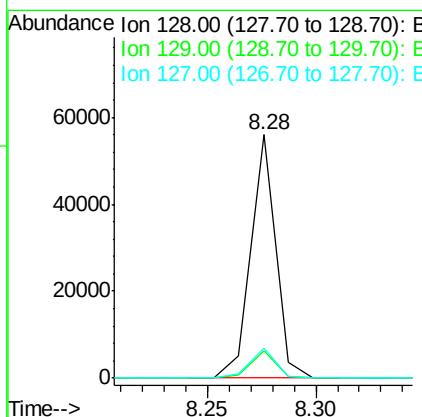
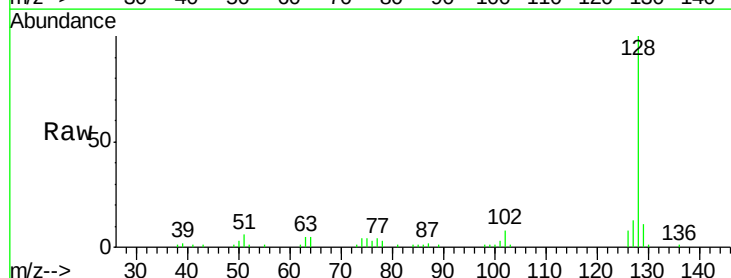
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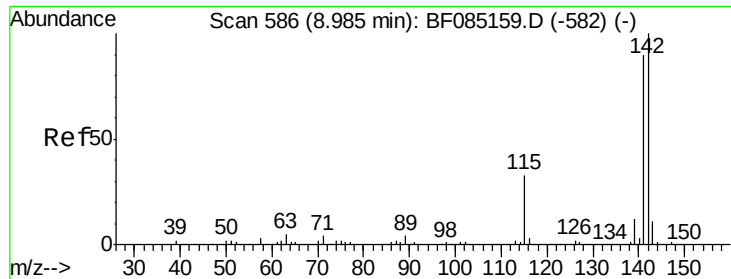
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#31
 Naphthalene
 Concen: 8.17 ng
 RT: 8.28 min Scan# 524
 Delta R.T. -0.01 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.7	14.5
127	12.5	11.2	16.8





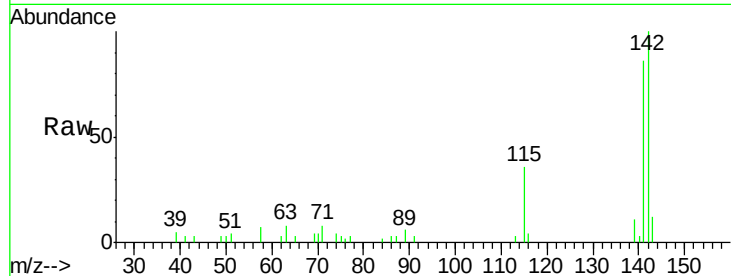
#37
2-Methylnaphthalene
Concen: 4.82 ng
RT: 8.96 min Scan# 584
Delta R.T. -0.02 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)

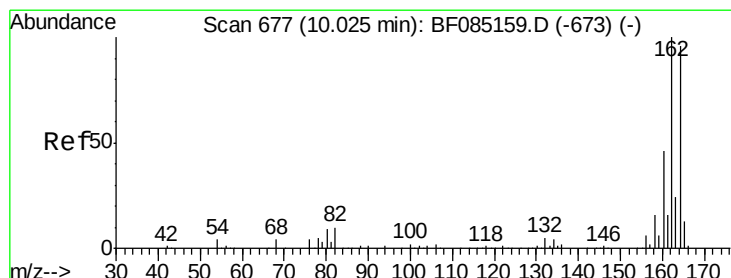
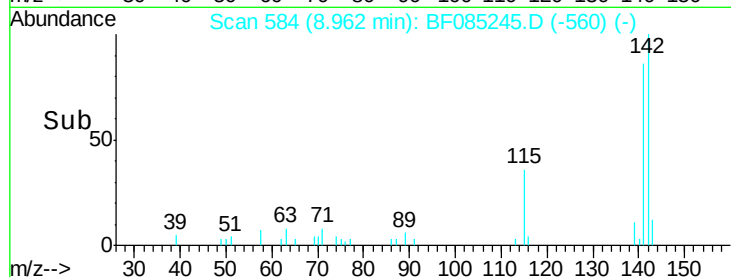
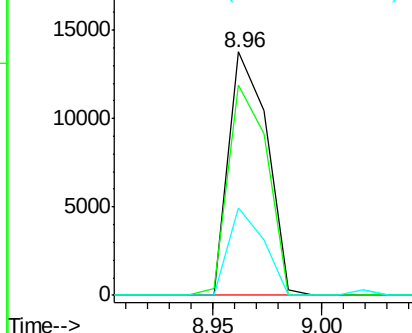
Tot Ion	Ratio	Lower	Upper
142	100		
141	86.2	71.7	107.5
115	35.7	26.2	39.4

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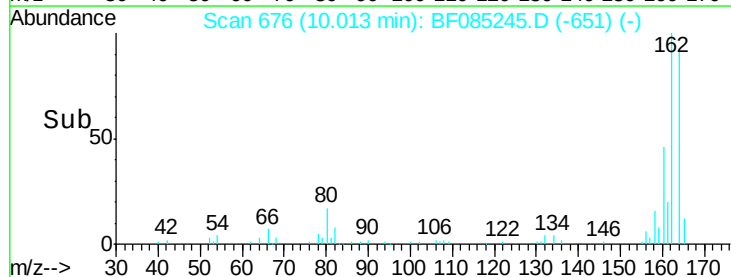
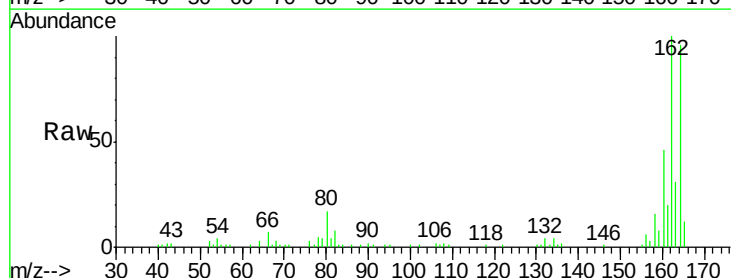
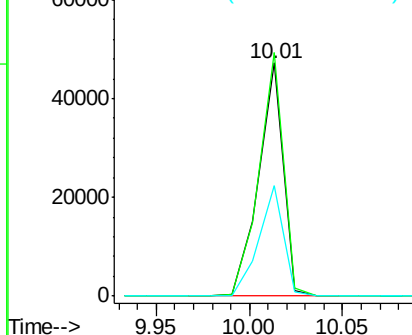
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

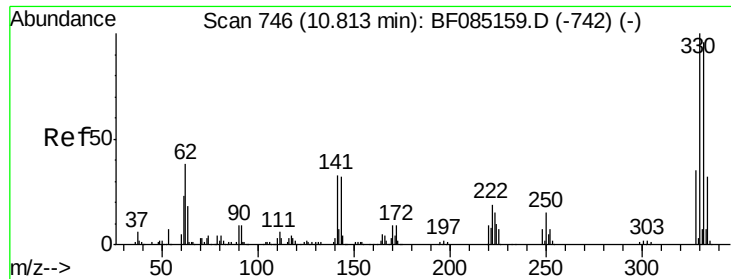


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.01 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	83.3	124.9
160	47.6	37.9	56.9

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





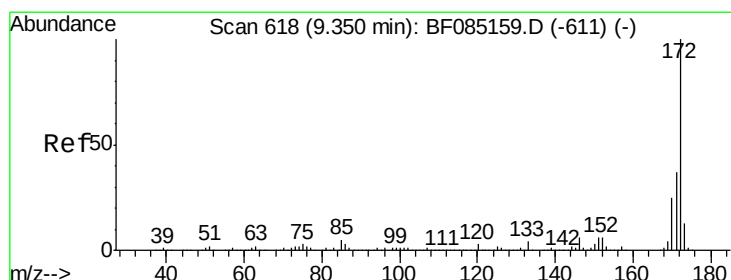
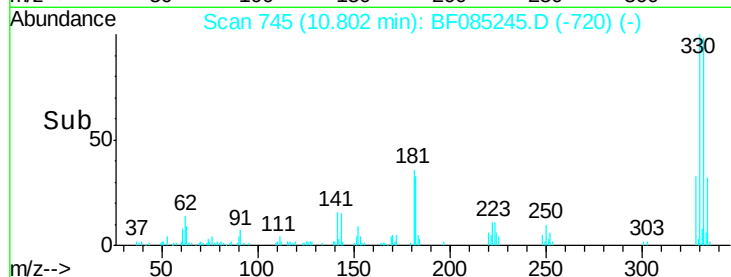
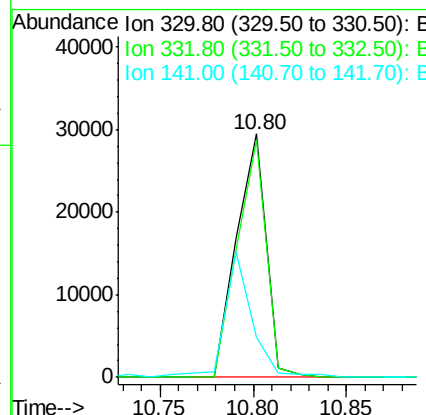
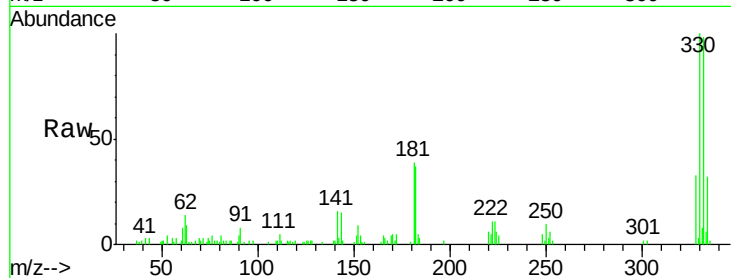
#41
 2,4,6-Tribromophenol
 Concen: 87.80 ng
 RT: 10.80 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.1	115.7
141	47.6	35.0	52.6

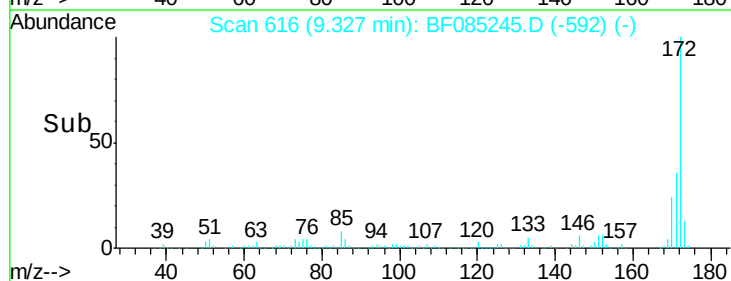
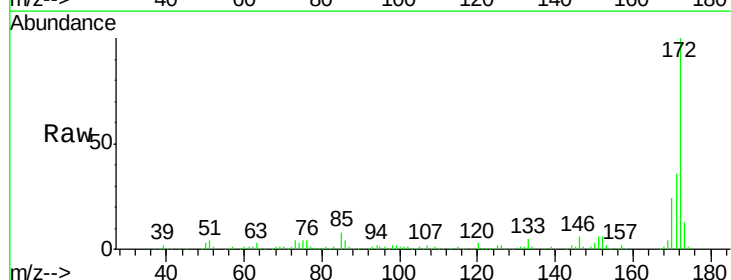
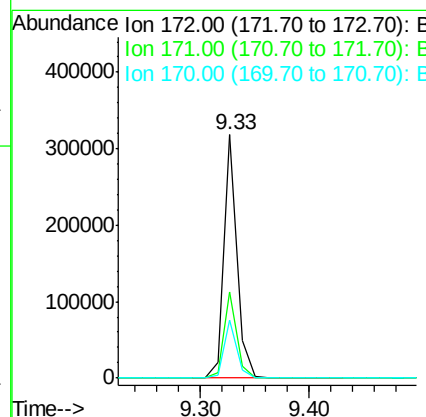
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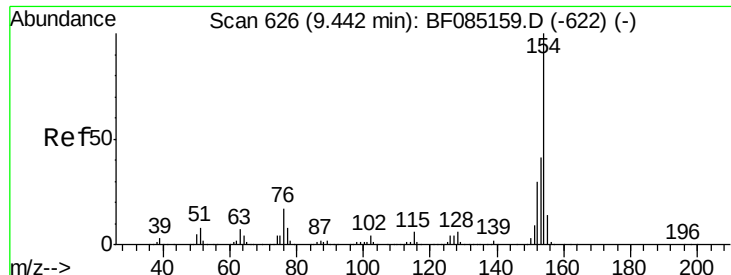
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#44
 2-Fluorobiphenyl
 Concen: 93.86 ng
 RT: 9.33 min Scan# 616
 Delta R.T. -0.02 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.3	43.9
170	23.8	20.0	30.0





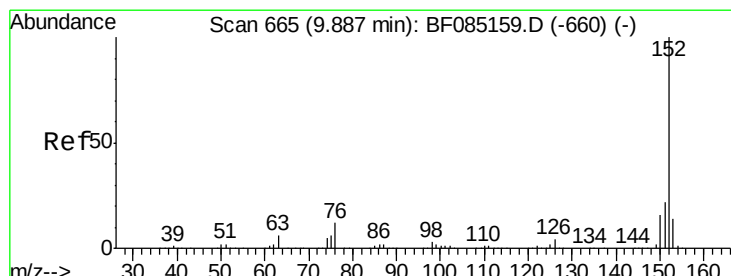
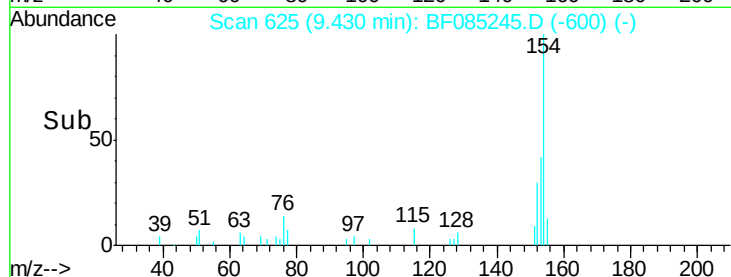
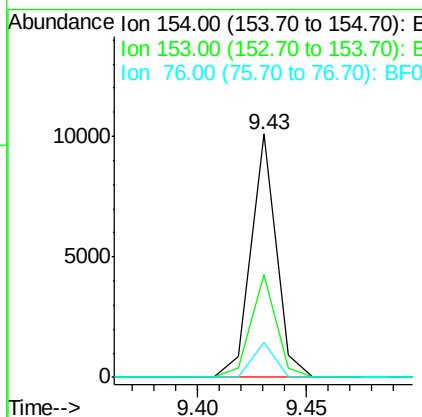
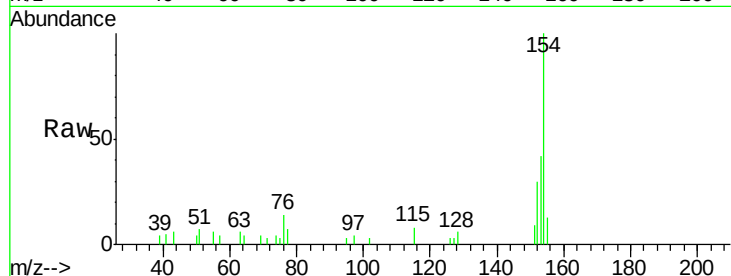
#45
 1,1'-Biphenyl
 Concen: 2.19 ng
 RT: 9.43 min Scan# 625
 Delta R.T. -0.01 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Instrument :
 BNA_F
 ClientSampled :
 SP-001(0-2)

Tot Ion:	154	Resp:	8161
Ion Ratio	Lower	Upper	
154	100		
153	42.3	21.4	61.4
76	14.2	0.0	37.5

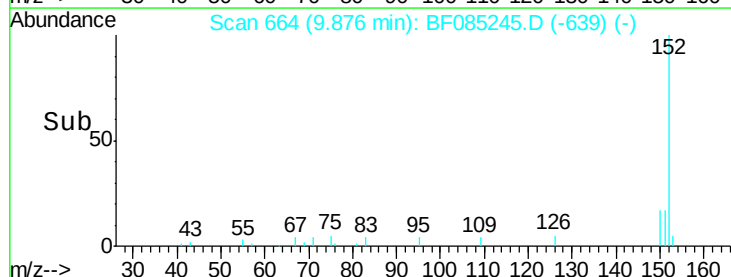
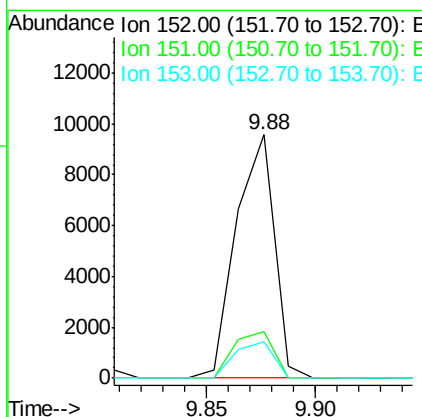
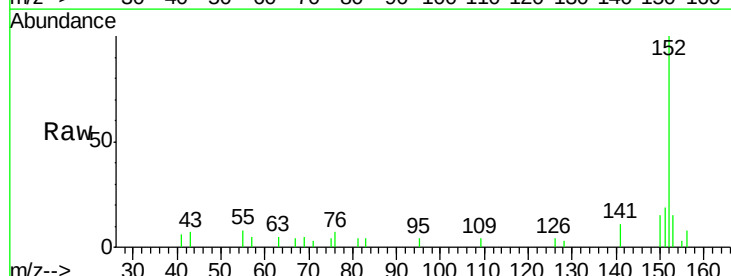
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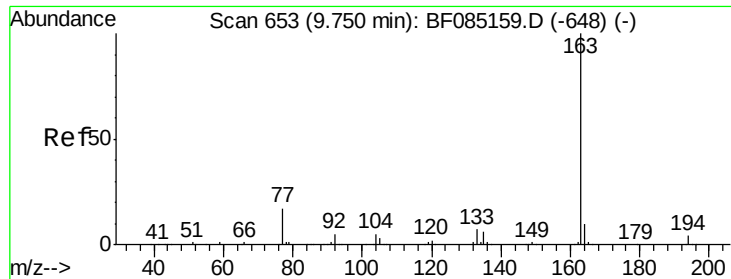
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#48
 Acenaphthylene
 Concen: 2.64 ng
 RT: 9.88 min Scan# 664
 Delta R.T. -0.01 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Tgt Ion:	152	Resp:	11685
Ion Ratio	Lower	Upper	
152	100		
151	19.0	17.5	26.3
153	15.1	11.3	16.9





#49

Dimethylphthalate

Concen: 10.12 ng

RT: 9.72 min Scan# 650

Delta R.T. -0.03 min

Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Instrument :

BNA_F

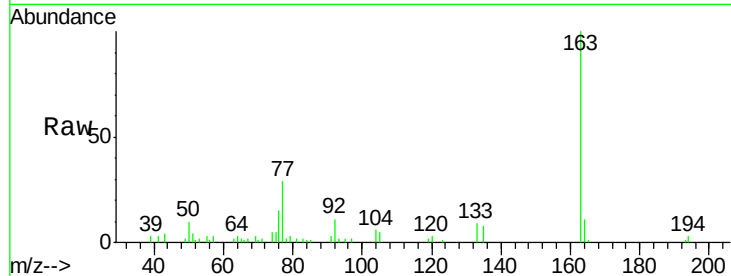
ClientSampleId :

SP-001(0-2)

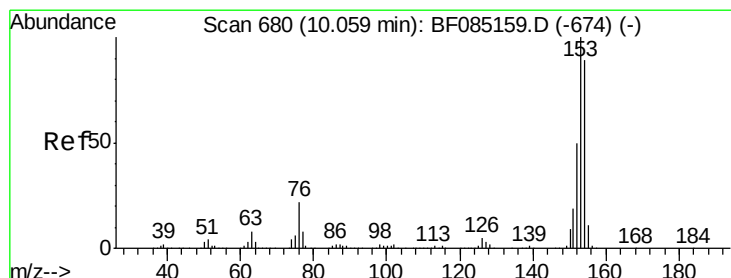
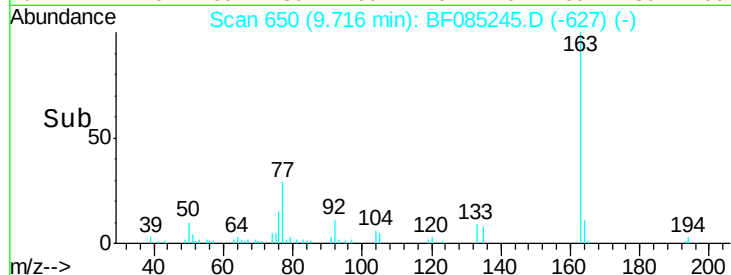
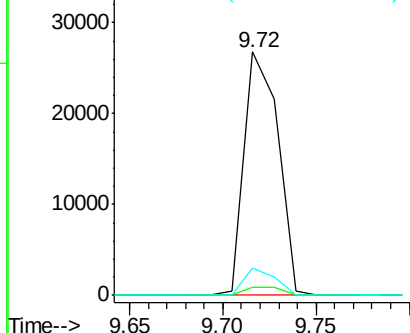
Tot Ion:	163	Resp:	33957
Ion Ratio	Lower	Upper	
163	100		
194	3.2	3.1	4.7
164	11.3	8.2	12.4

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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: 25.08 ng

RT: 10.05 min Scan# 679

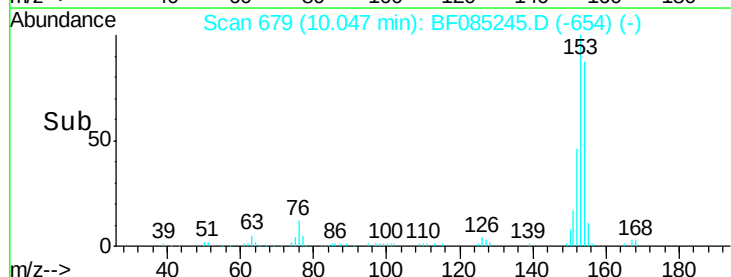
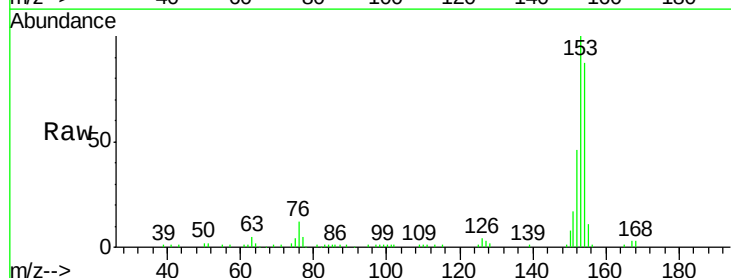
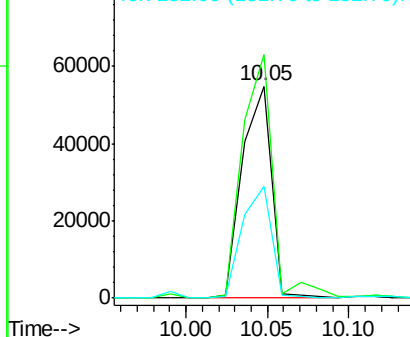
Delta R.T. -0.01 min

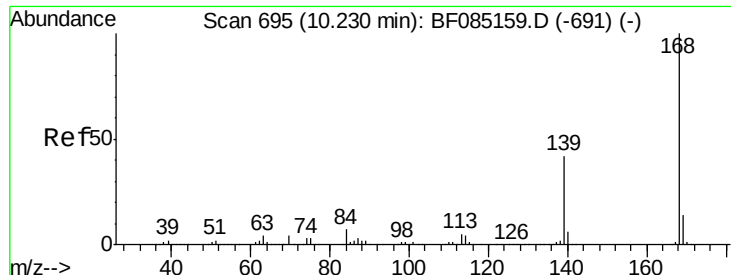
Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Tgt Ion:	154	Resp:	67444
Ion Ratio	Lower	Upper	
154	100		
153	114.8	89.8	134.8
152	53.0	44.6	66.8

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





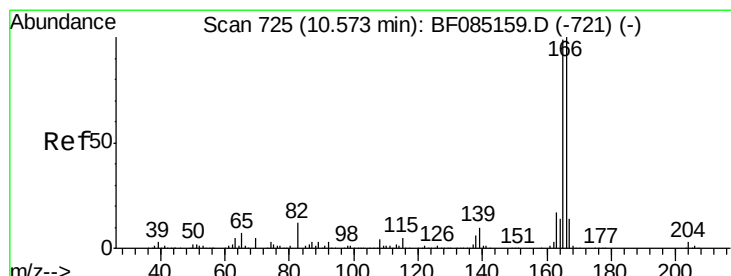
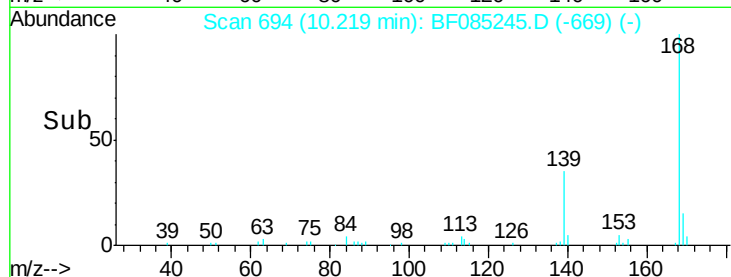
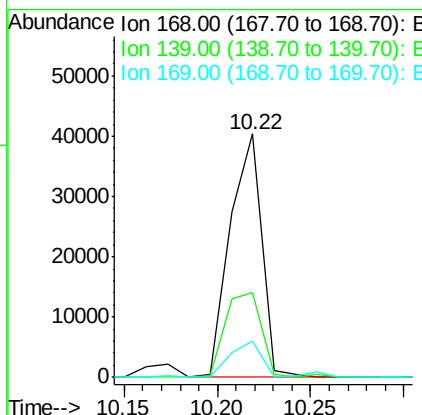
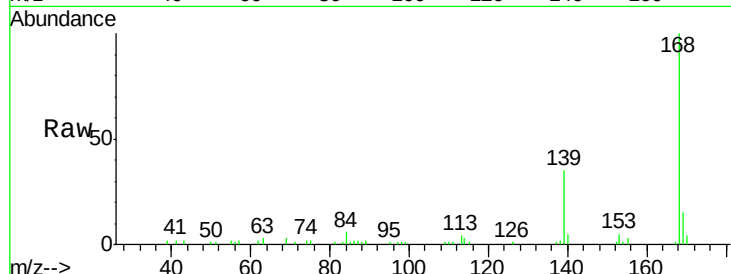
#54
Dibenzenofuran
Concen: 13.60 ng
RT: 10.22 min Scan# 694
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Instrument :
BNA_F
ClientSampled :
SP-001(0-2)

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.7	33.6	50.4
169	14.8	11.2	16.8

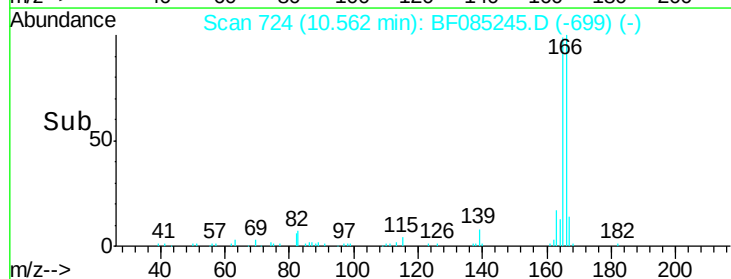
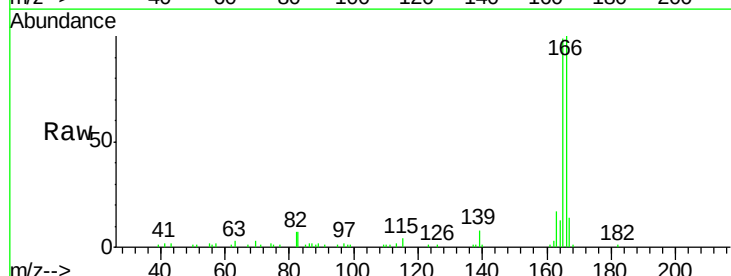
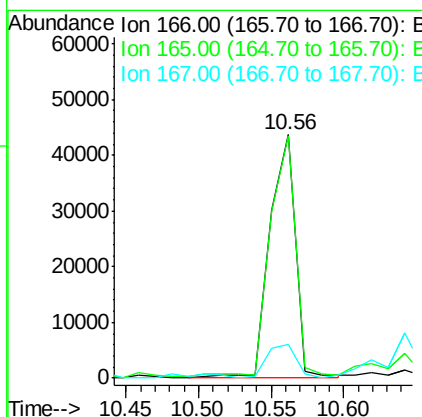
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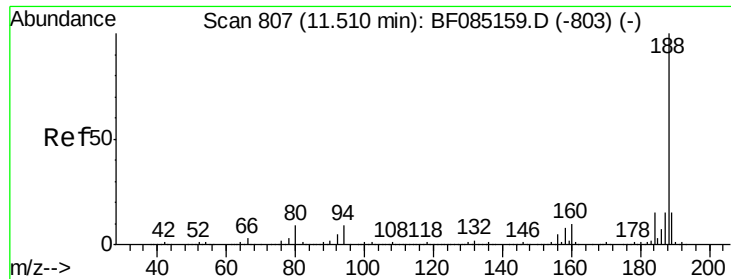
UMANGI
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#57
Fluorene
Concen: 19.35 ng
RT: 10.56 min Scan# 724
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.4	119.0
167	13.9	11.0	16.6





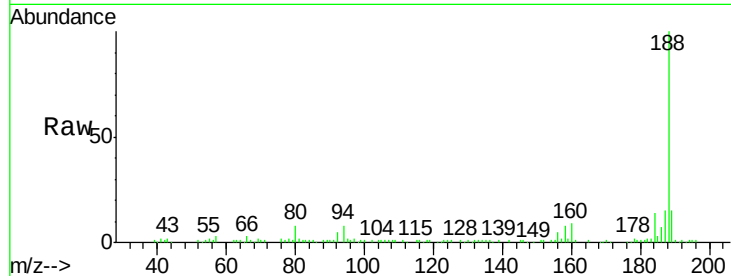
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.50 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Instrument :
BNA_F
ClientSampled :
SP-001(0-2)

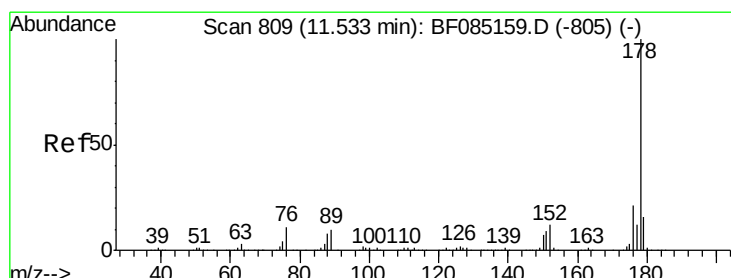
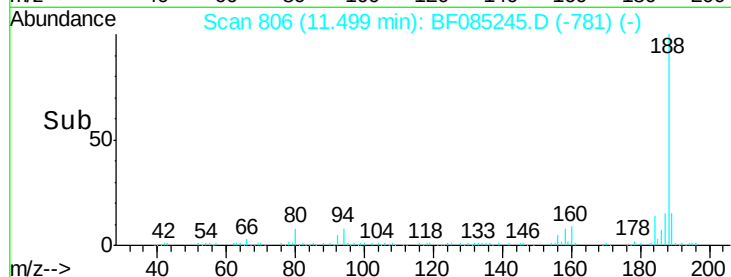
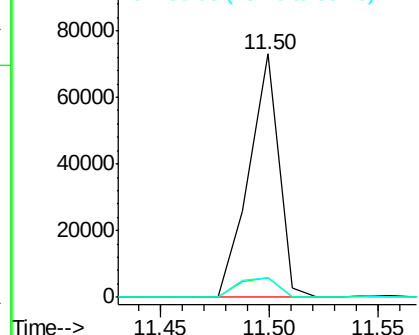
Tot Ion	Ratio	Resp	Lower	Upper
188	100	69756		
94	8.1	7.0	10.6	
80	8.0	7.4	11.0	

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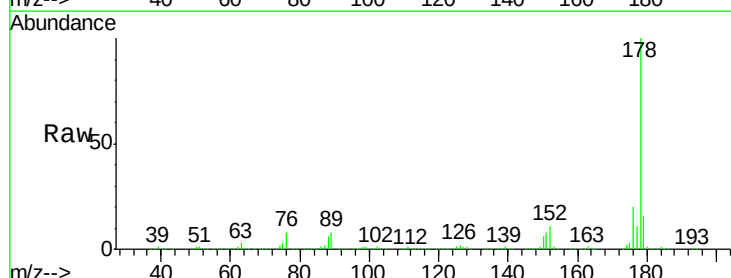


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

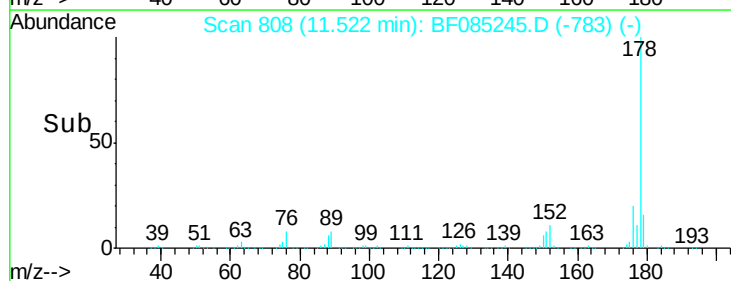
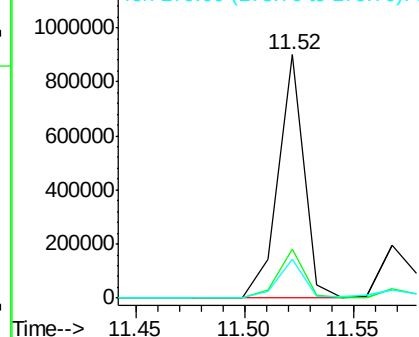


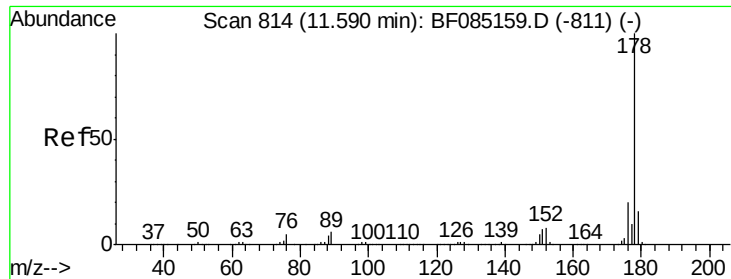
#70
Phenanthrene
Concen: 206.35 ng
RT: 11.52 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	754352		
176	20.0	16.8	25.2	
179	15.7	13.1	19.7	



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





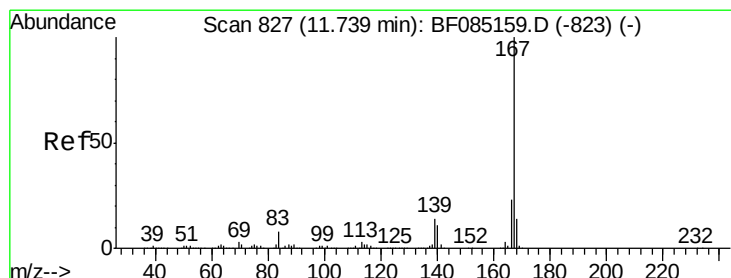
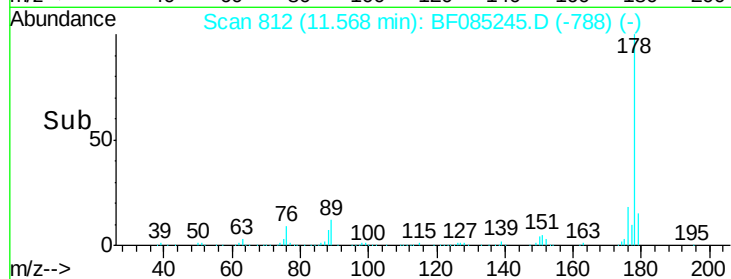
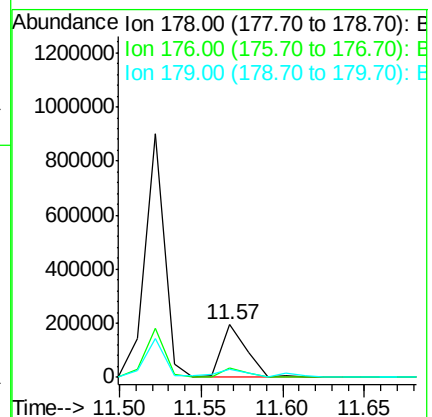
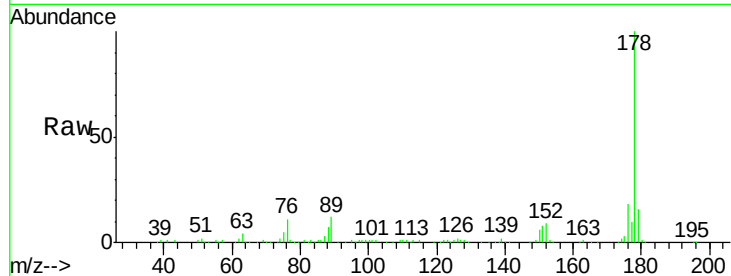
#71
 Anthracene
 Concen: 53.29 ng
 RT: 11.57 min Scan# 812
 Delta R.T. -0.02 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Instrument :
 BNA_F
 ClientSampleId :
 SP-001(0-2)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.9	23.9
179	15.6	12.5	18.7

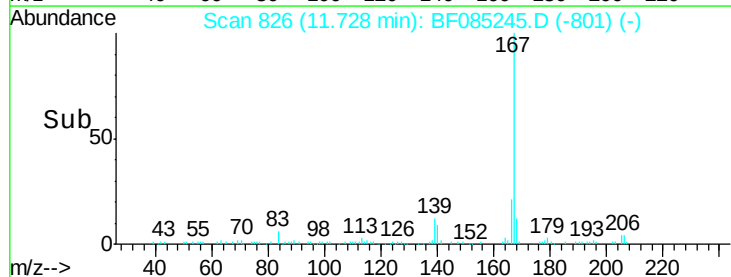
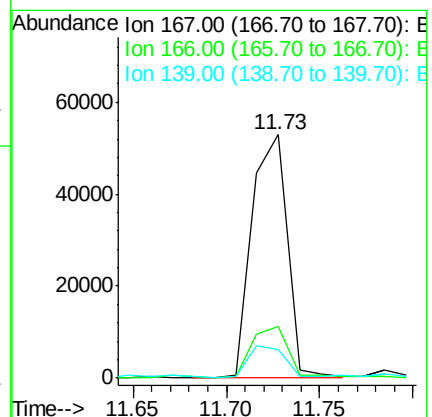
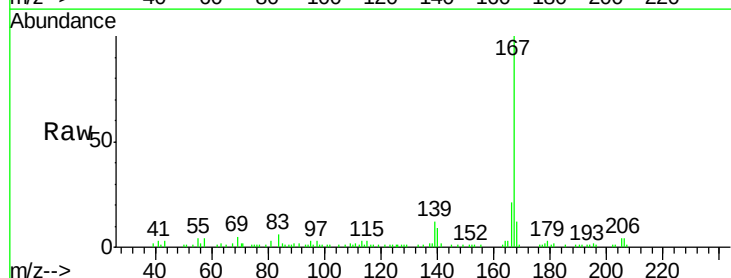
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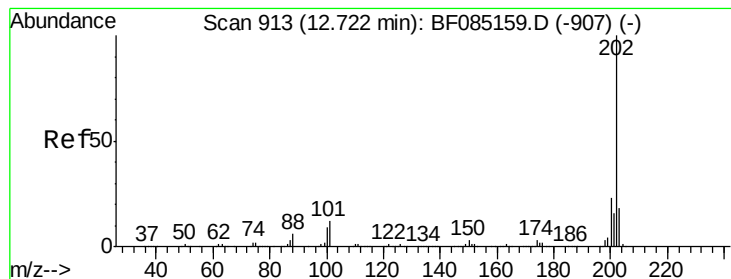
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#72
 Carbazole
 Concen: 20.38 ng
 RT: 11.73 min Scan# 826
 Delta R.T. -0.01 min
 Lab File: BF085245.D
 Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.3	18.2	27.2
139	11.7	11.4	17.0





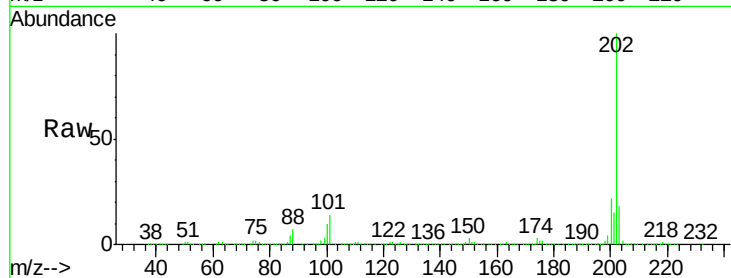
#74
Fluoranthene
Concen: 274.97 ng
RT: 12.71 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Instrument :
BNA_F
ClientSampled :
SP-001(0-2)

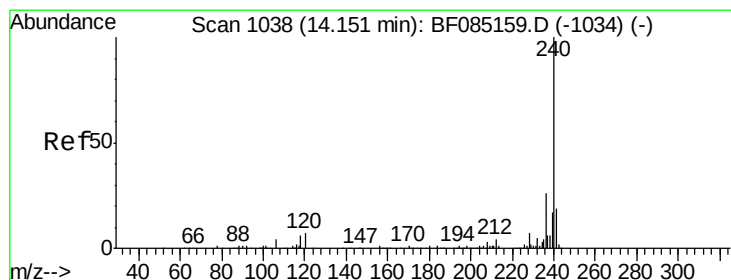
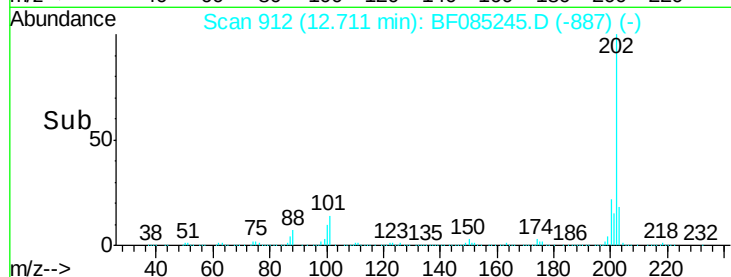
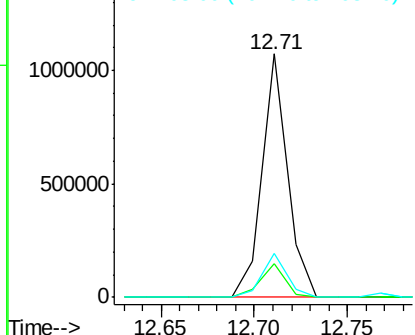
Tot Ion	Ratio	Resp	Lower	Upper
202	100	1008793		
101	13.7		0.0	31.8
203	18.3		0.0	38.4

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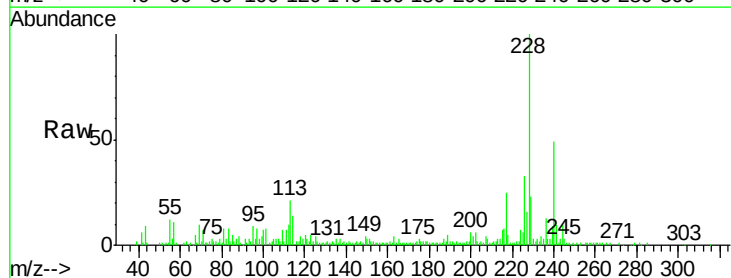


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

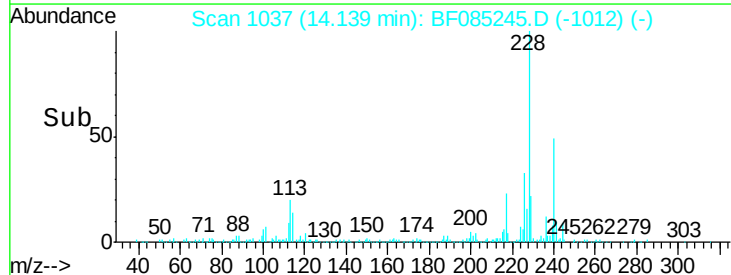
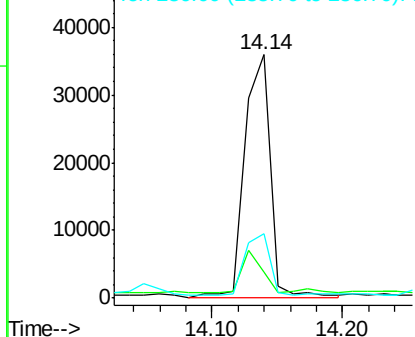


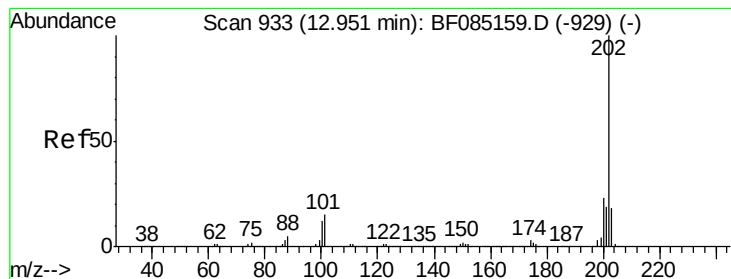
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.14 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	49445		
120	10.5		5.3	7.9#
236	26.3		20.7	31.1



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 250.53 ng

RT: 12.94 min Scan# 932

Delta R.T. -0.01 min

Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Instrument :

BNA_F

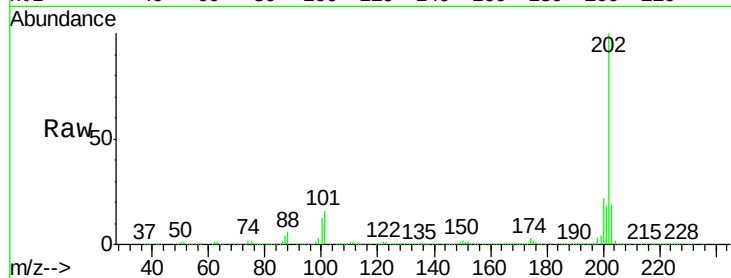
ClientSampleId :

SP-001(0-2)

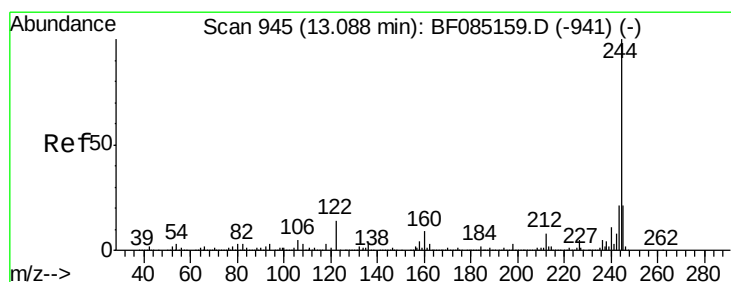
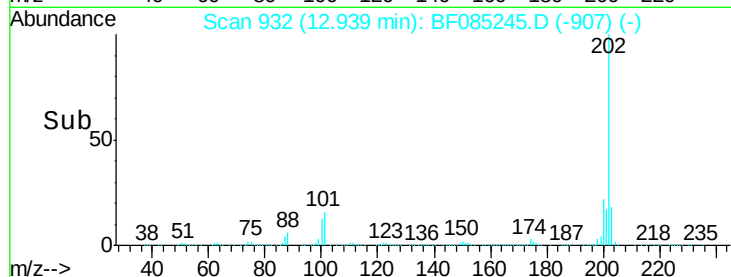
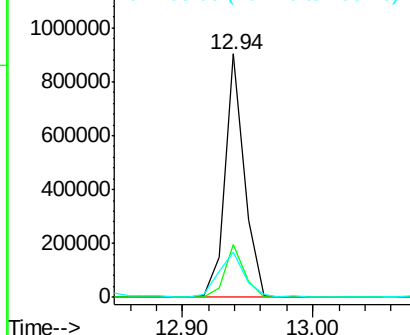
Tot Ion:	202	Resp:	932361
Ion Ratio	Lower	Upper	
202	100		
200	21.6	18.2	27.4
203	18.6	14.7	22.1

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 80.54 ng

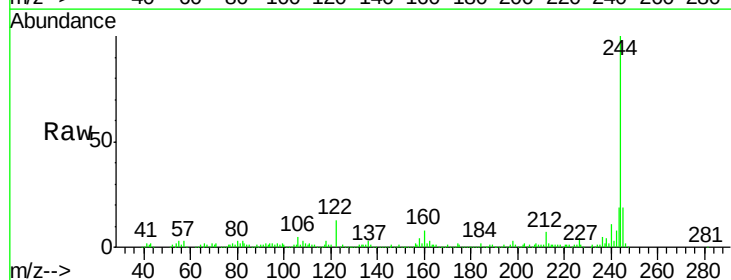
RT: 13.08 min Scan# 944

Delta R.T. -0.01 min

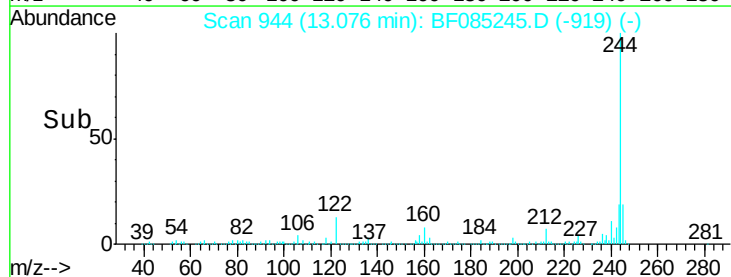
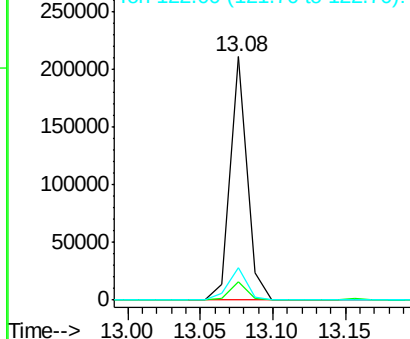
Lab File: BF085245.D

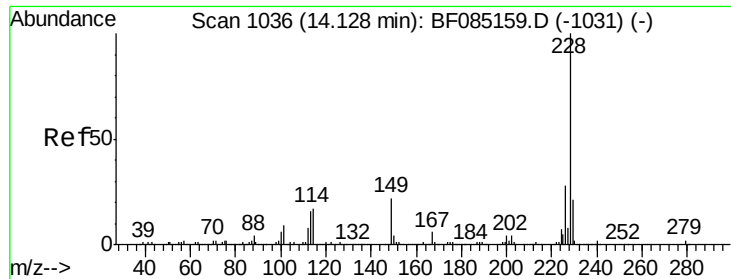
Acq: 5 Mar 2016 10:57

Tgt Ion:	244	Resp:	171553
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.4	9.6
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





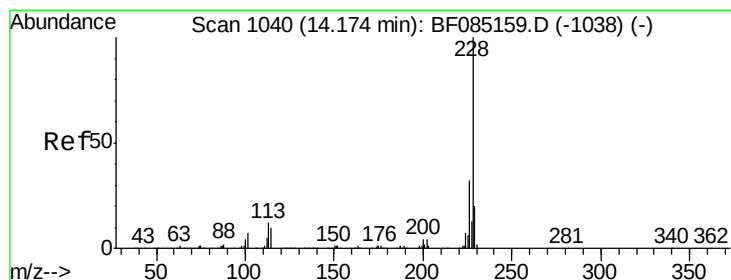
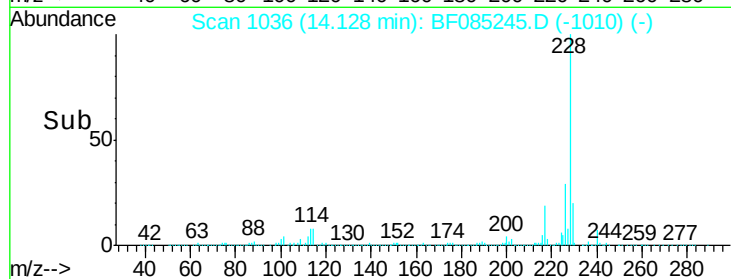
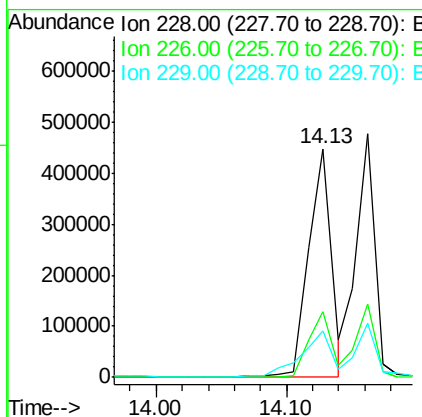
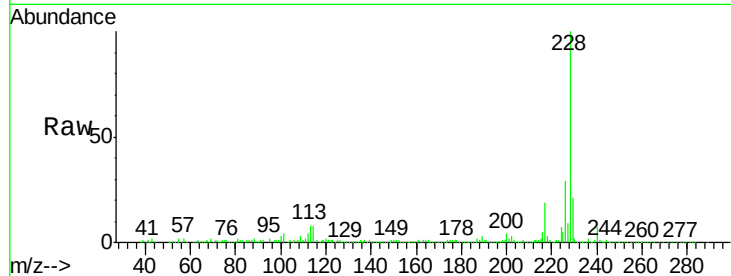
#80
Benzo(a)anthracene
Concen: 184.25 ng
RT: 14.13 min Scan# 1036
Delta R.T. 0.00 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.8	34.2
229	20.6	16.6	24.8

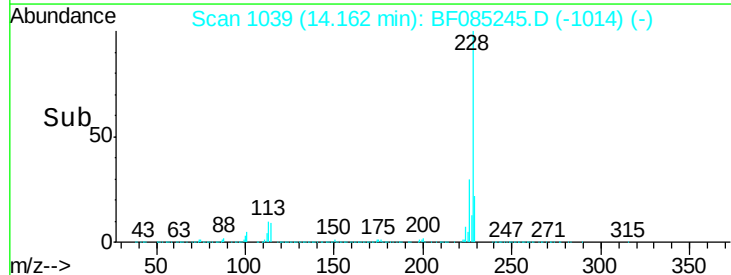
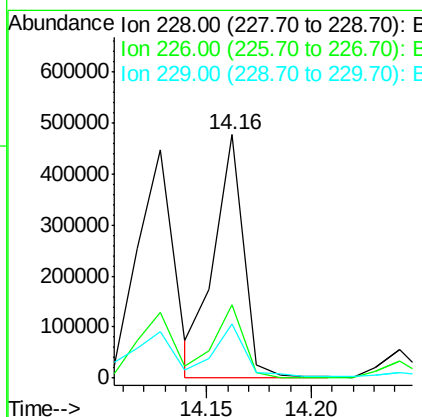
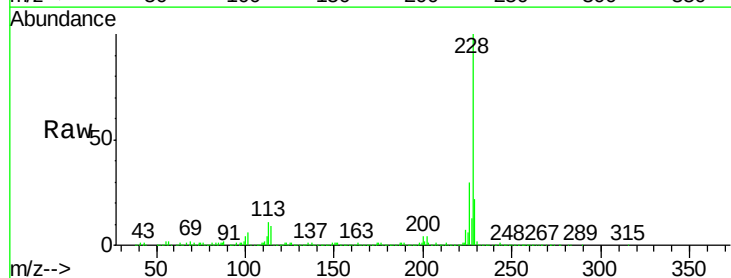
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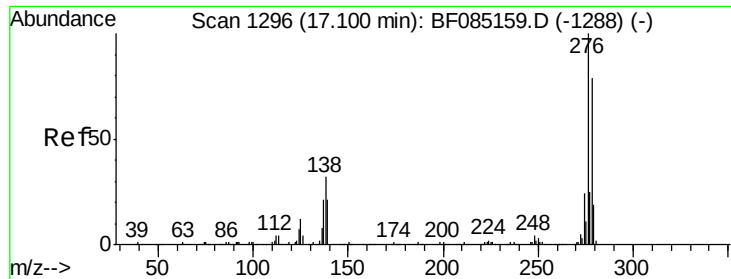
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#82
Chrysene
Concen: 172.56 ng m
RT: 14.16 min Scan# 1039
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.2	37.8
229	22.0	16.0	24.0





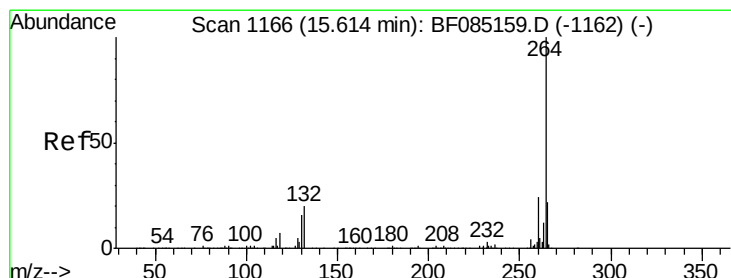
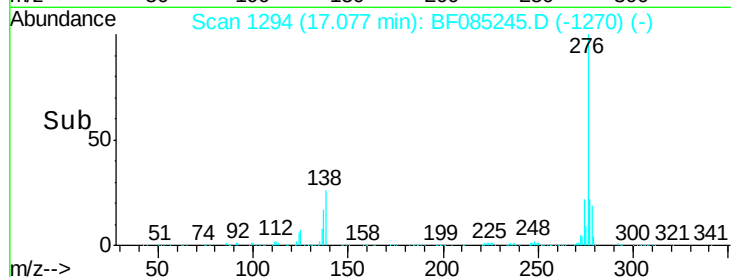
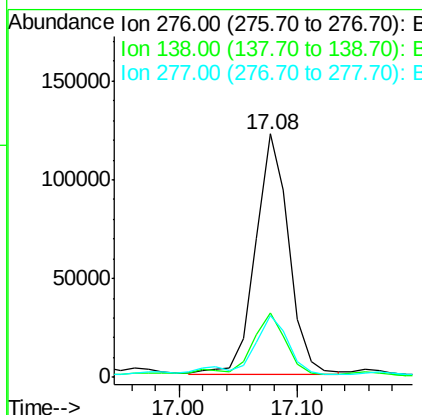
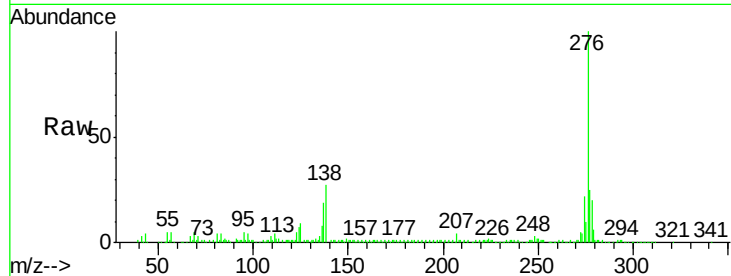
#85
Indeno(1,2,3-cd)pyrene
Concen: 112.02 ng
RT: 17.08 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.6	26.4	39.6
277	28.4	20.2	30.2

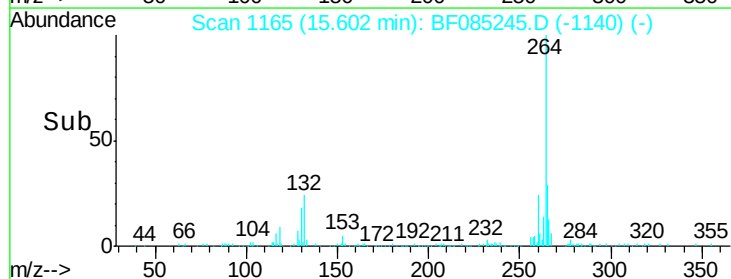
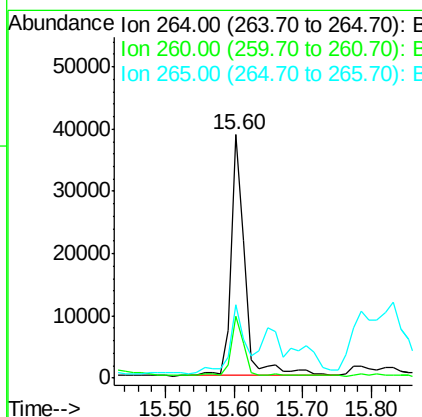
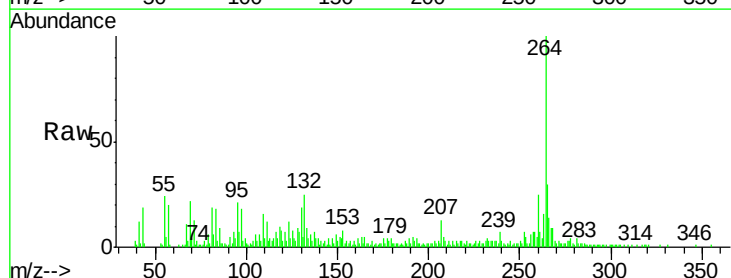
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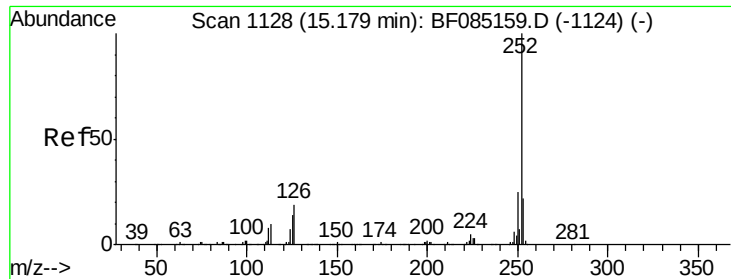
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.60 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.2	28.8
265	30.1	17.3	25.9#





#87

Benzo(b)fluoranthene

Concen: 157.86 ng m

RT: 15.18 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Instrument :

BNA_F

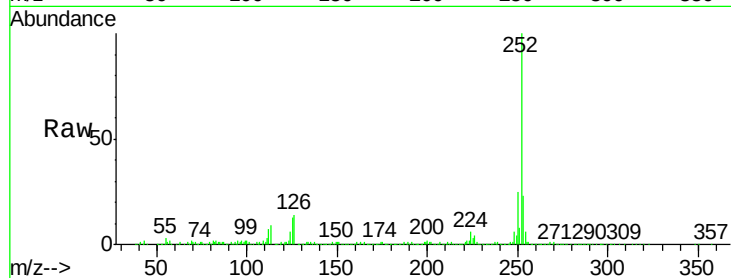
ClientSampled :

SP-001(0-2)

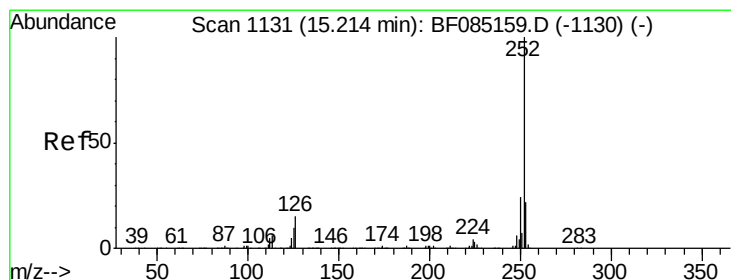
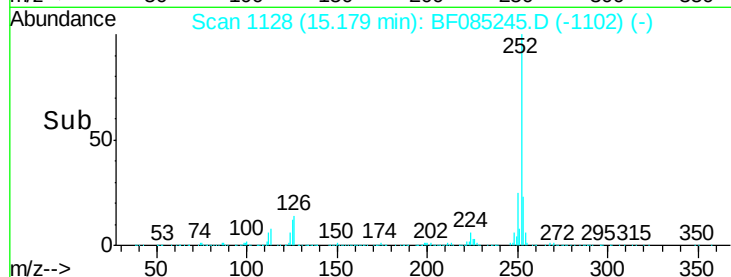
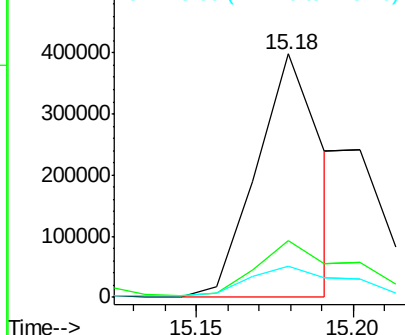
Tot Ion:	252	Resp:	578340
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.8	26.6
125	13.0	11.3	16.9

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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



#88

Benzo(k)fluoranthene

Concen: 77.69 ng m

RT: 15.20 min Scan# 1130

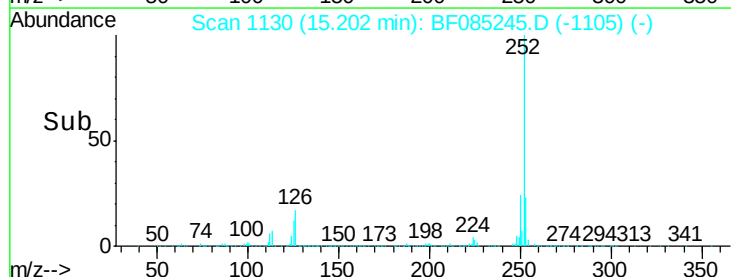
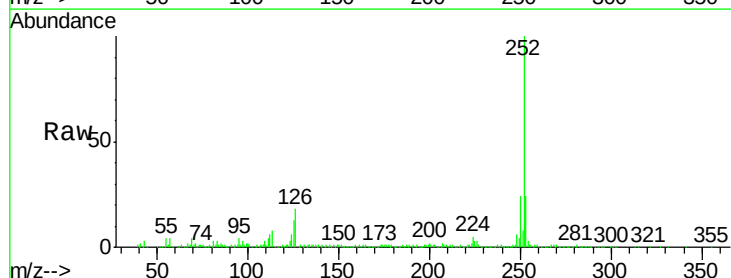
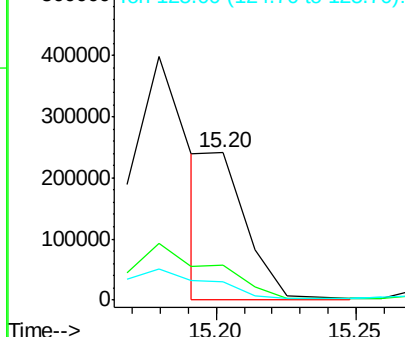
Delta R.T. -0.01 min

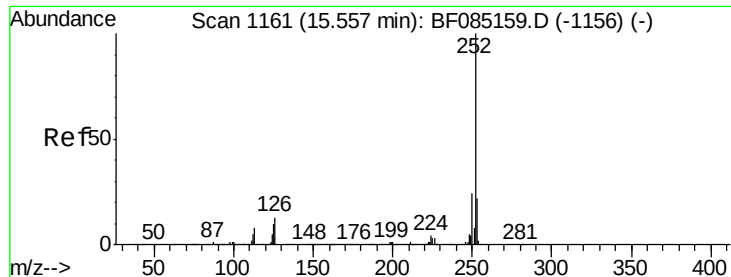
Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Tgt Ion:	252	Resp:	229587
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.8	26.6
125	12.9	10.4	15.6

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





#89

Benzo(a)pyrene

Concen: 129.21 ng

RT: 15.55 min Scan# 1160

Delta R.T. -0.01 min

Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Instrument :

BNA_F

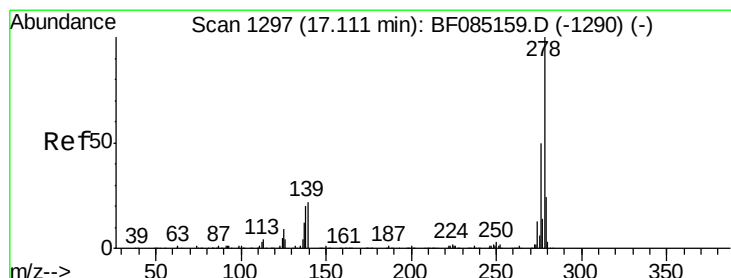
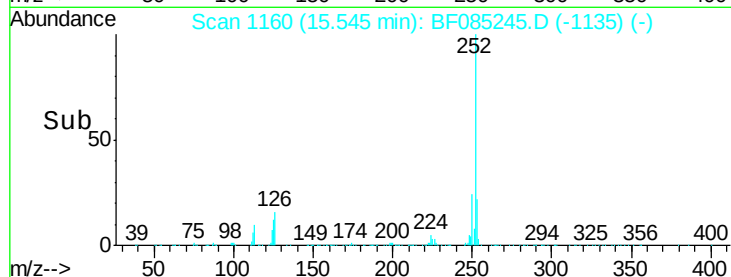
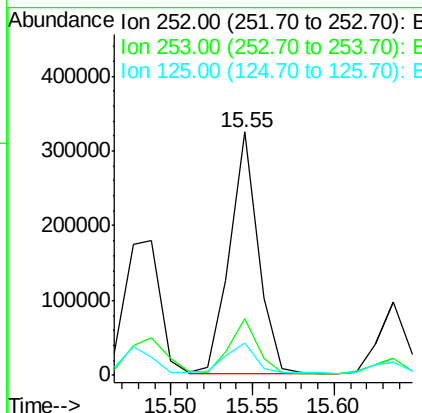
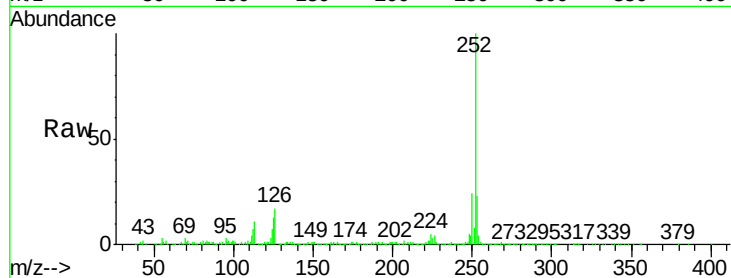
ClientSampleId :

SP-001(0-2)

Tot Ion:	252	Resp:	392278
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.4	26.0
125	13.3	8.2	12.4

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:37 AM



#90

Dibenzo(a,h)anthracene

Concen: 22.12 ng

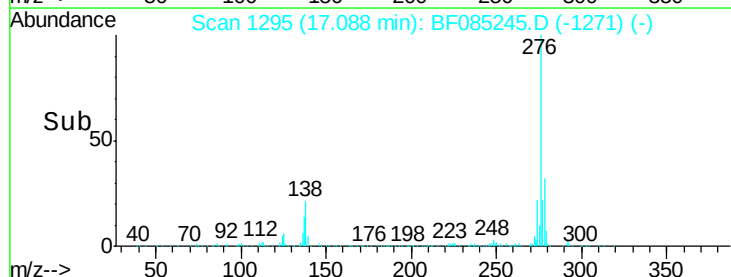
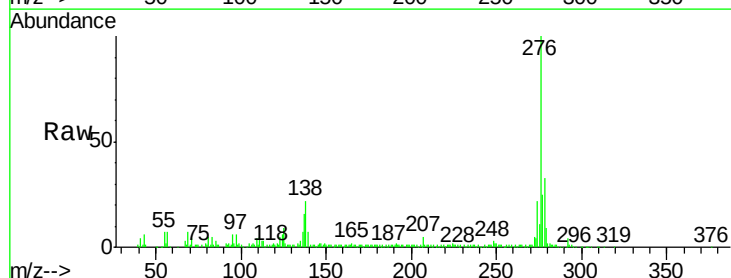
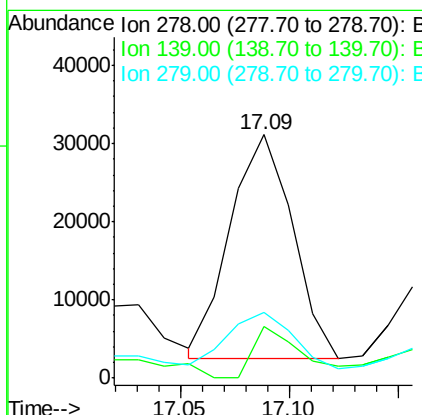
RT: 17.09 min Scan# 1295

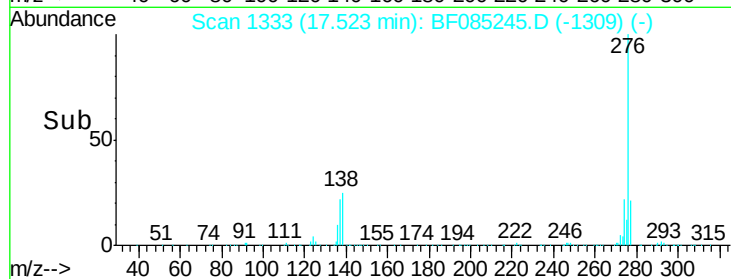
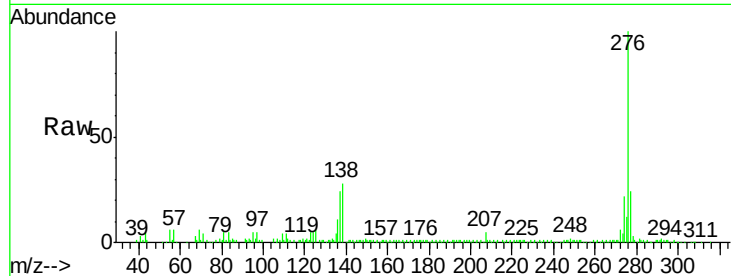
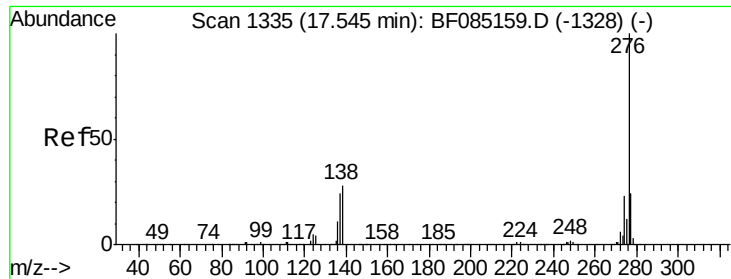
Delta R.T. -0.02 min

Lab File: BF085245.D

Acq: 5 Mar 2016 10:57

Tgt Ion:	278	Resp:	57335
Ion Ratio	Lower	Upper	
278	100		
139	21.4	17.3	25.9
279	26.8	19.2	28.8





#91
Benzo(a,h,i)perylene
Concen: 80.85 ng
RT: 17.52 min Scan# 1333
Delta R.T. -0.02 min
Lab File: BF085245.D
Acq: 5 Mar 2016 10:57

Instrument :
BNA_F
ClientSampleId :
SP-001(0-2)

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	23.5	19.0	28.4
138	27.7	22.5	33.7

Manual Integrations
APPROVED

UMANGI
3/7/2016 9:33:37 AM

