

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032916\
 Data File : BF085869.D
 Acq On : 30 Mar 2016 00:46
 Operator : UM/SJ
 Sample : H2008-02
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-14

Manual Integrations
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Quant Time: Mar 30 02:21:30 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 28 15:27:05 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	111957	20.00	ng	-0.02
21) Naphthalene-d8	8.09	136	431928	20.00	ng	-0.02
38) Acenaphthene-d10	9.84	164	162795	20.00	ng	-0.02
63) Phenanthrene-d10	11.33	188	262847	20.00	ng	-0.02
75) Chrysene-d12	13.97	240	242900	20.00	ng	-0.01
86) Perylene-d12	15.39	264	188216	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	801571	119.24	ng	0.00
7) Phenol-d6	6.45	99	948175	110.93	ng	-0.01
23) Nitrobenzene-d5	7.37	82	565726	73.76	ng	-0.02
41) 2,4,6-Tribromophenol	10.63	330	133203	86.12	ng	-0.02
44) 2-Fluorobiphenyl	9.17	172	651834	66.90	ng	-0.02
78) Terphenyl-d14	12.92	244	401942	34.03	ng	-0.01
Target Compounds						Qvalue
48) Acenaphthylene	9.70	152	61860	3.76	ng	99
49) Dimethylphthalate	9.57	163	174498	14.13	ng	99
54) Dibenzofuran	10.05	168	26568	2.04	ng	# 90
57) Fluorene	10.39	166	54594	5.05	ng	98
70) Phenanthrene	11.35	178	539161	39.95	ng	99
71) Anthracene	11.41	178	116034	8.19	ng	98
72) Carbazole	11.57	167	35737	3.00	ng	98
74) Fluoranthene	12.54	202	632788	44.11	ng	97
77) Pyrene	12.77	202	548271	27.46	ng	99
80) Benzo(a)anthracene	13.96	228	343289	24.79	ng	96
82) Chrysene	13.99	228	235155m	16.86	ng	
85) Indeno(1,2,3-cd)pyrene	16.77	276	87119	8.09	ng	94
87) Benzo(b)fluoranthene	14.99	252	289669m	24.43	ng	
88) Benzo(k)fluoranthene	15.01	252	107015m	10.01	ng	
89) Benzo(a)pyrene	15.33	252	183309	17.41	ng	97
90) Dibenzo(a,h)anthracene	16.77	278	26134	2.67	ng	# 81
91) Benzo(g,h,i)perylene	17.19	276	77008	7.77	ng	95

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



#1

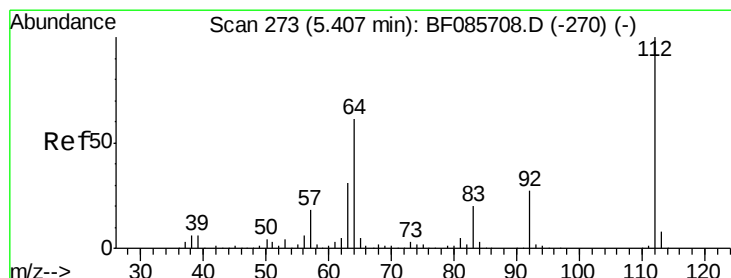
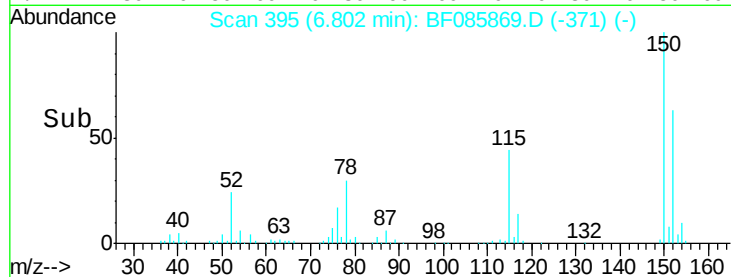
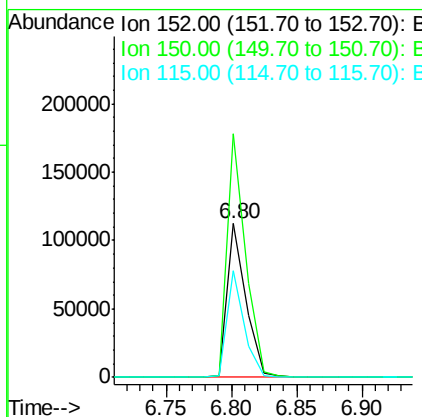
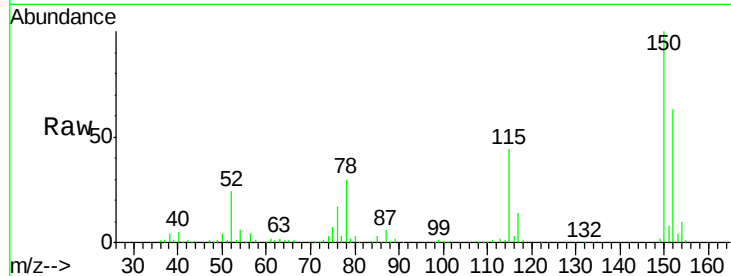
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 395
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Instrument :
BNA_F
ClientSampleId :
TP-14

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	111957		
150	158.3	124.2	186.2	
115	69.0	47.0	70.6	

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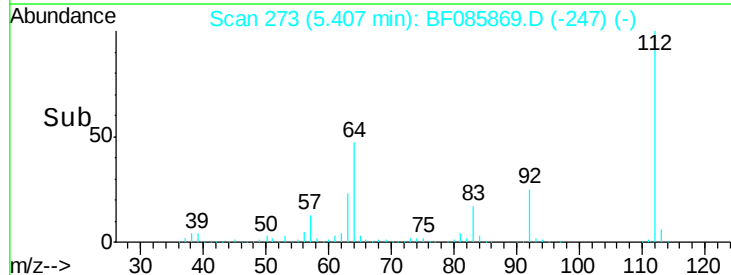
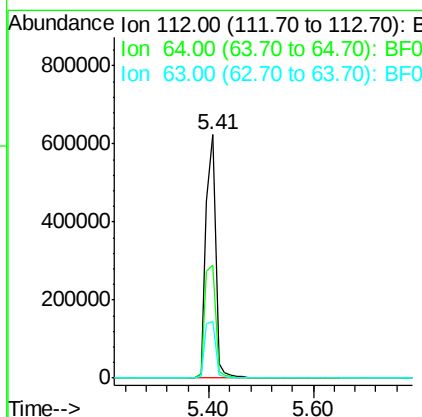
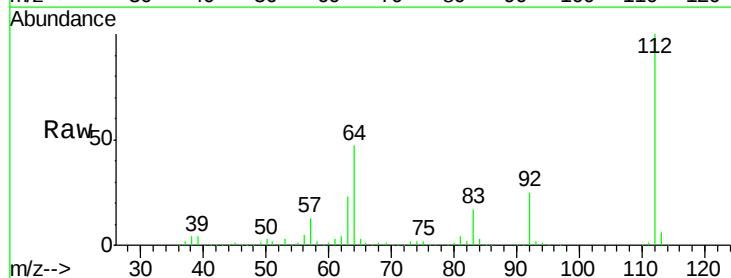
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#5

2-Fluorophenol
Concen: 119.24 ng
RT: 5.41 min Scan# 273
Delta R.T. 0.00 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	801571		
64	46.6	39.9	59.9	
63	23.3	20.2	30.2	





#7

Phenol-d6

Concen: 110.93 ng

RT: 6.45 min Scan# 364

Delta R.T. -0.01 min

Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Instrument :

BNA_F

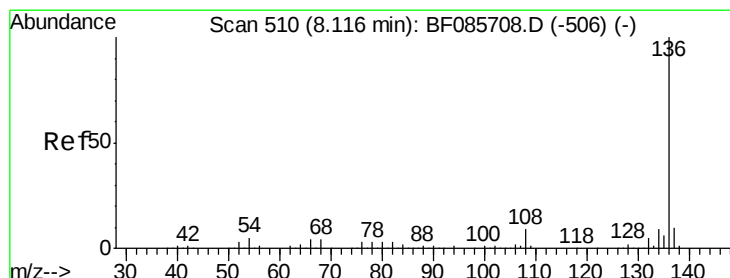
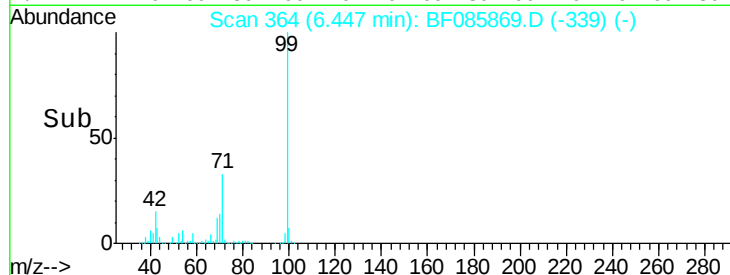
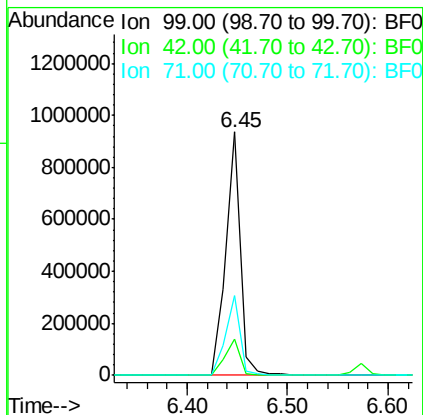
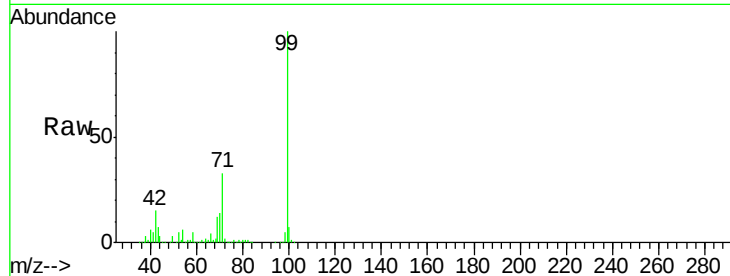
ClientSampleId :

TP-14

Tgt Ion:	99	Resp:	948175
Ion Ratio	Lower	Upper	
99	100		
42	15.0	11.1	16.7
71	32.8	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

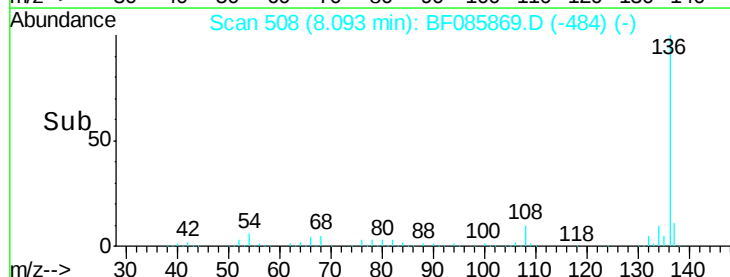
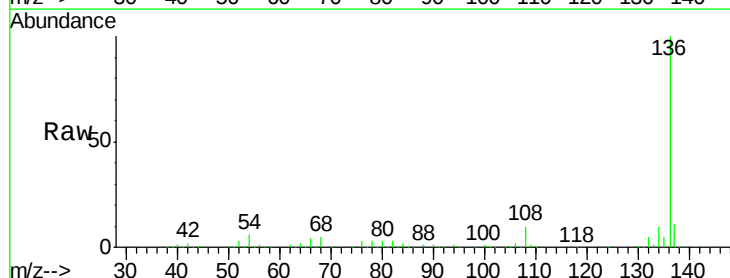
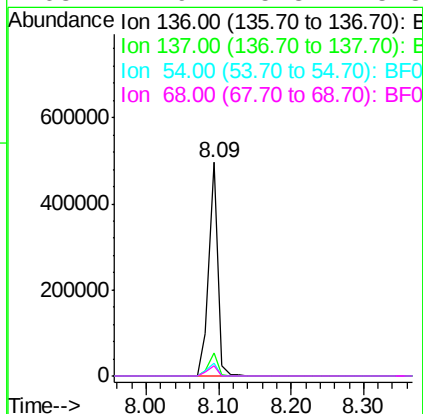
RT: 8.09 min Scan# 508

Delta R.T. -0.02 min

Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Tgt Ion:	136	Resp:	431928
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.1	13.7
54	5.9	7.4	11.0#
68	4.9	5.8	8.8#





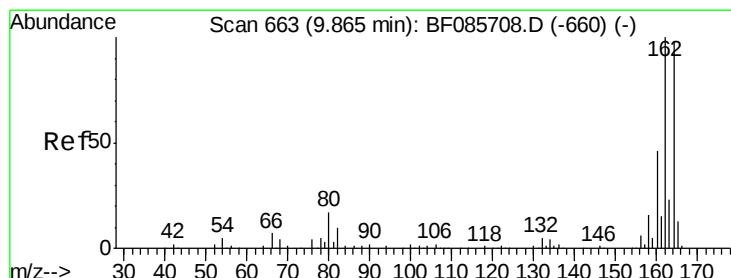
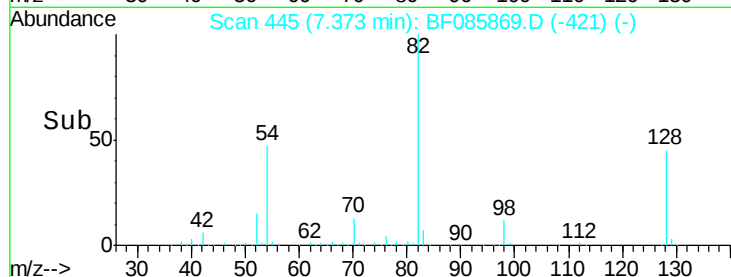
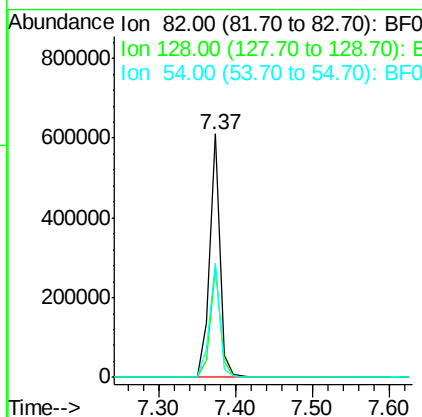
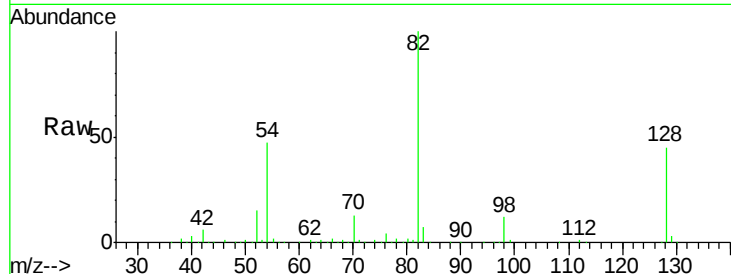
#23
Nitrobenzene-d5
Concen: 73.76 ng
RT: 7.37 min Scan# 445
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Instrument :
BNA_F
ClientSampled :
TP-14

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	565726		
128	44.8		41.8	62.8
54	46.8		33.4	50.0

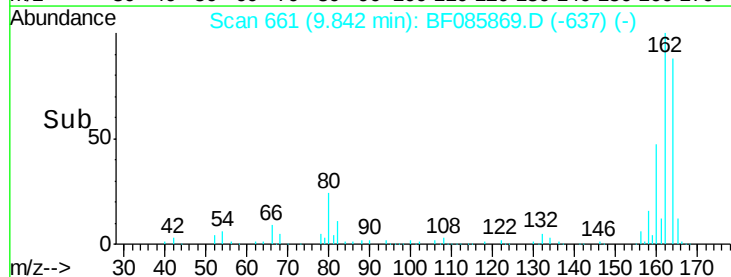
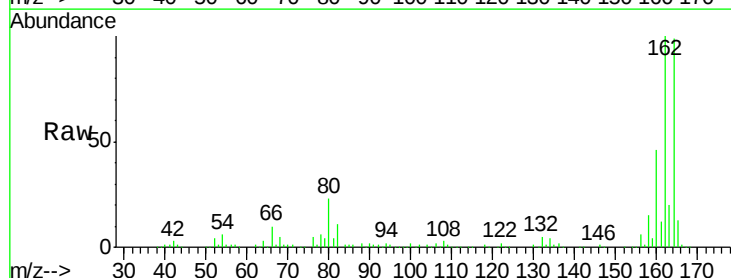
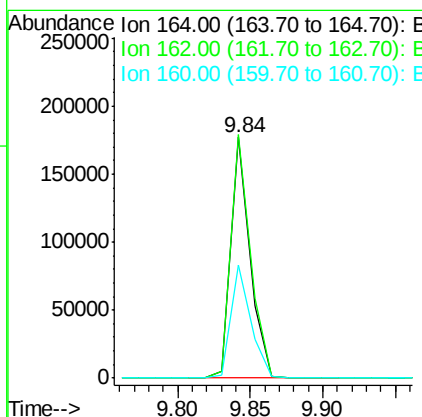
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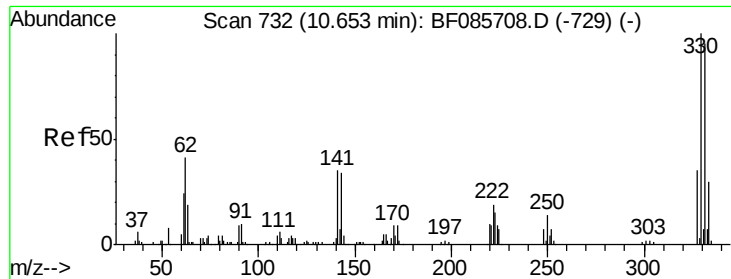
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.84 min Scan# 661
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	162795		
162	101.0		82.1	123.1
160	46.8		37.4	56.2





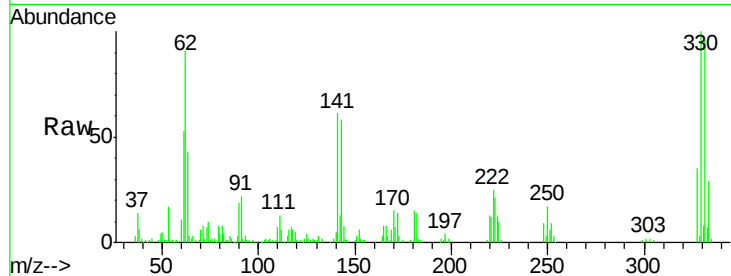
#41
 2,4,6-Tribromophenol
 Concen: 86.12 ng
 RT: 10.63 min Scan# 730
 Delta R.T. -0.02 min
 Lab File: BF085869.D
 Acq: 30 Mar 2016 00:46

Instrument :
 BNA_F
 ClientSampled :
 TP-14

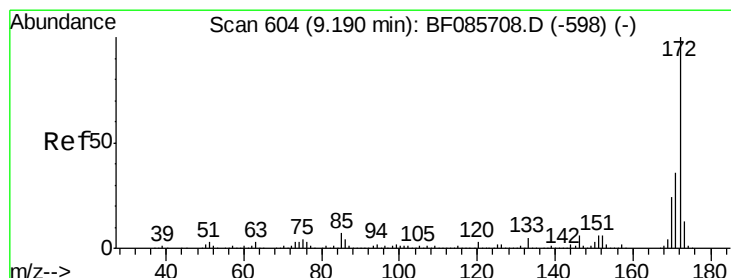
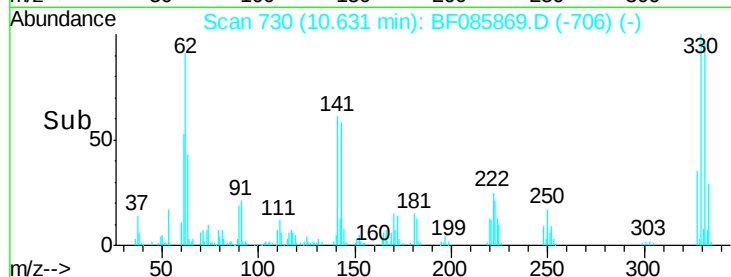
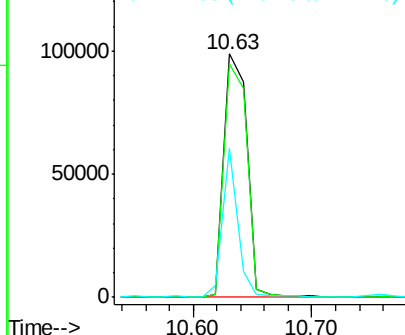
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	133203		
332	96.4	78.2	117.2	
141	42.0	31.5	47.3	

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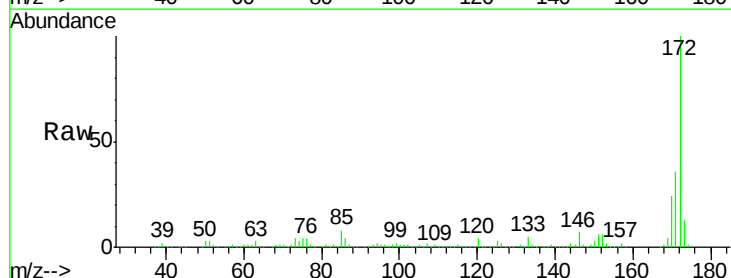


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

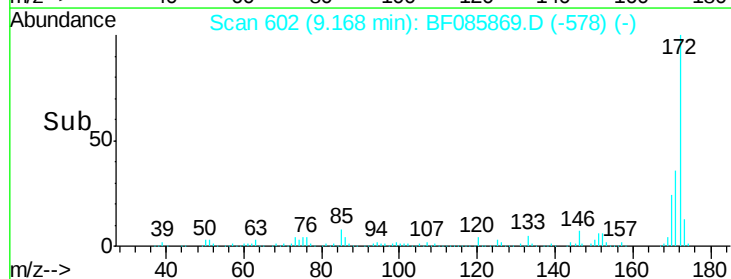
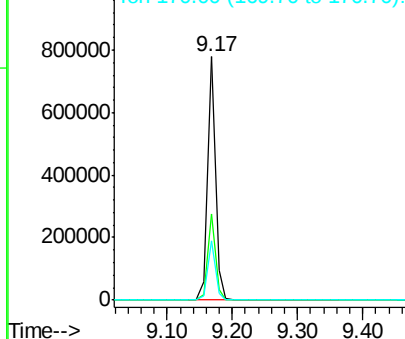


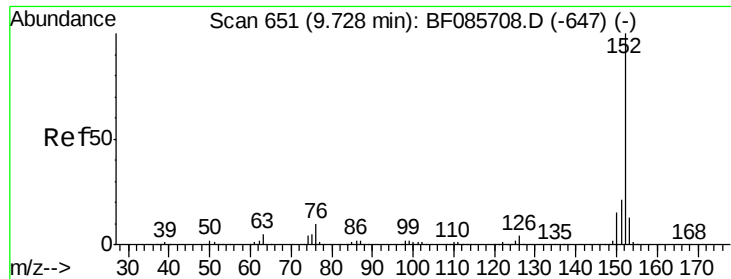
#44
 2-Fluorobiphenyl
 Concen: 66.90 ng
 RT: 9.17 min Scan# 602
 Delta R.T. -0.02 min
 Lab File: BF085869.D
 Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	651834		
171	35.6	29.4	44.2	
170	24.2	19.8	29.6	



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: 3.76 ng

RT: 9.70 min Scan# 649

Delta R.T. -0.02 min

Lab File: BF085869.D

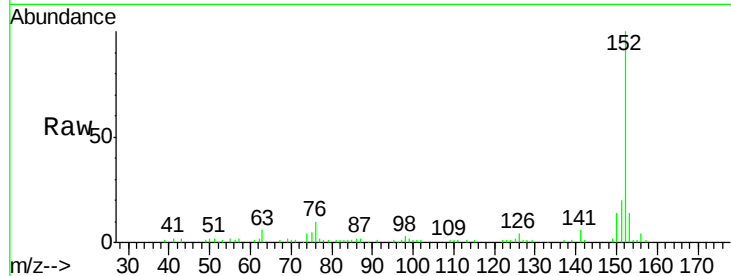
Acq: 30 Mar 2016 00:46

Instrument :

BNA_F

ClientSampleId :

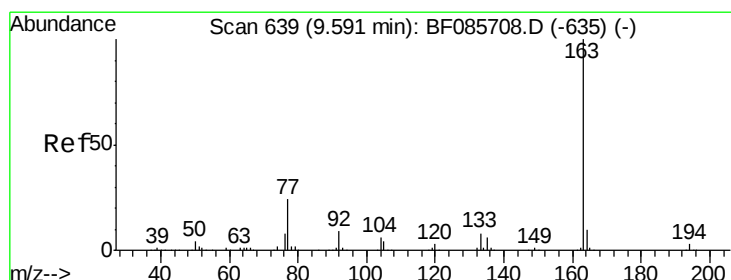
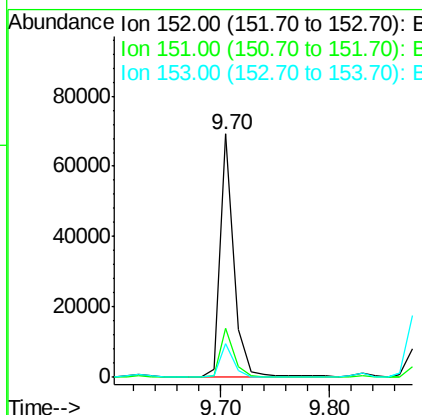
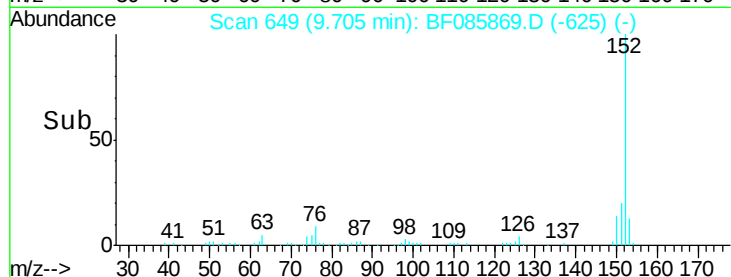
TP-14



Tgt Ion:	152	Resp:	61860
Ion Ratio		Lower	Upper
152	100		
151	20.2	16.8	25.2
153	13.8	10.9	16.3

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#49

Dimethylphthalate

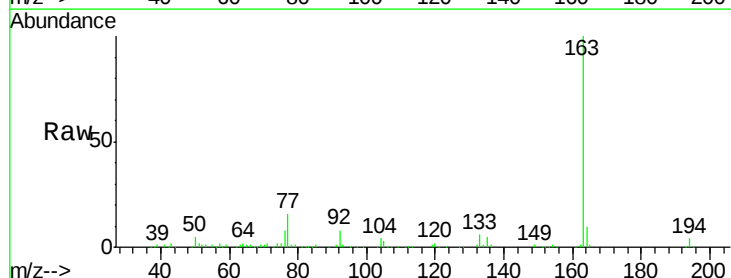
Concen: 14.13 ng

RT: 9.57 min Scan# 637

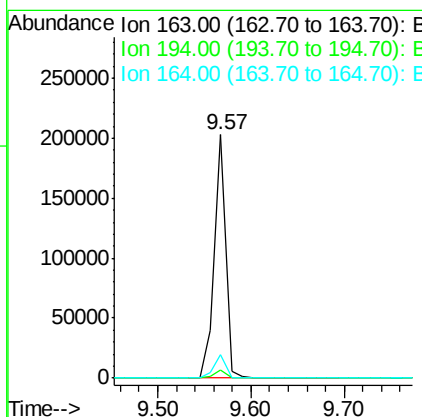
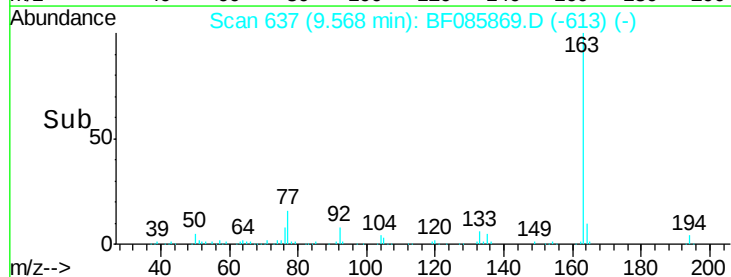
Delta R.T. -0.02 min

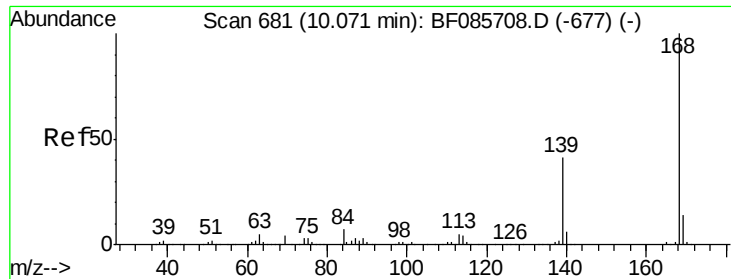
Lab File: BF085869.D

Acq: 30 Mar 2016 00:46



Tgt Ion:	163	Resp:	174498
Ion Ratio		Lower	Upper
163	100		
194	3.5	2.9	4.3
164	9.9	8.3	12.5





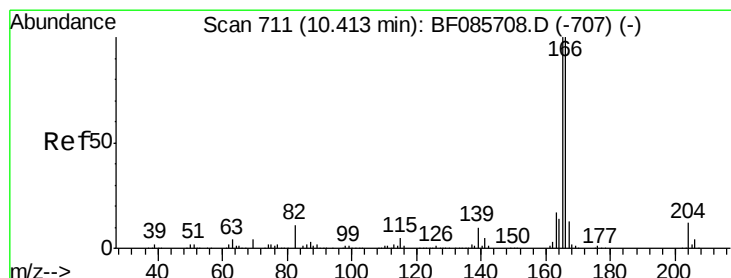
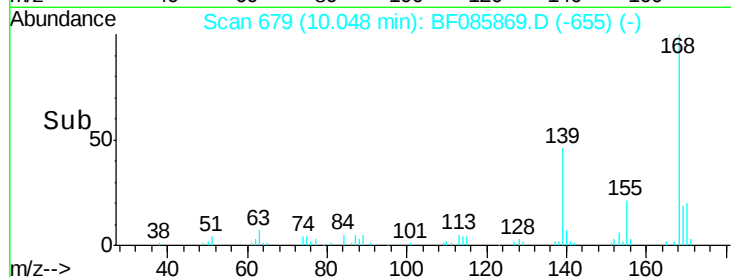
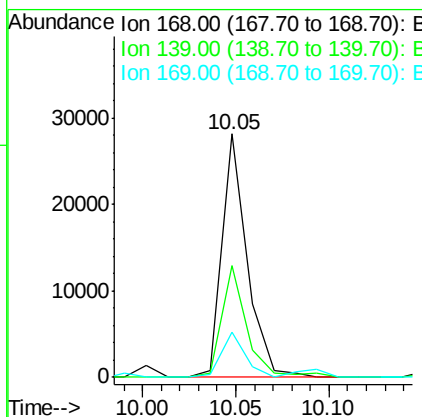
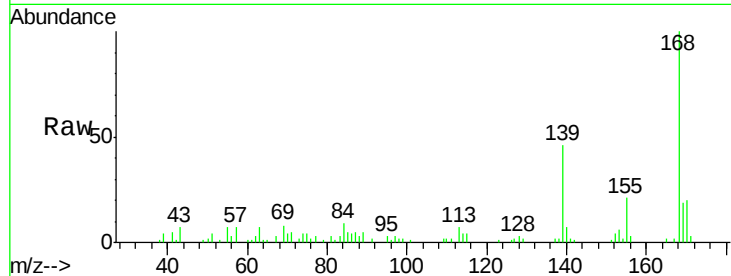
#54
Dibenzenofuran
Concen: 2.04 ng
RT: 10.05 min Scan# 679
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Instrument :
BNA_F
ClientSampleId :
TP-14

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	26568		
139	45.9	31.9	47.9	
169	18.7	11.0	16.6	

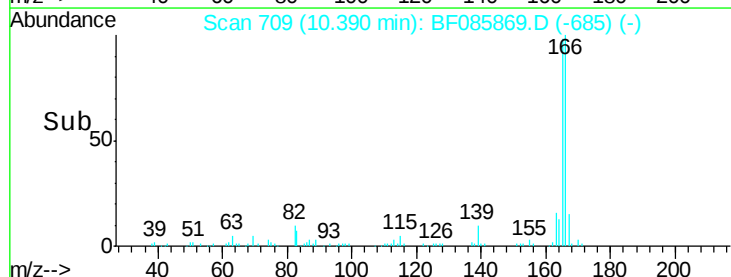
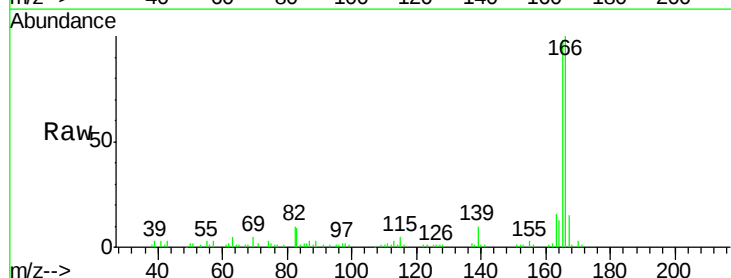
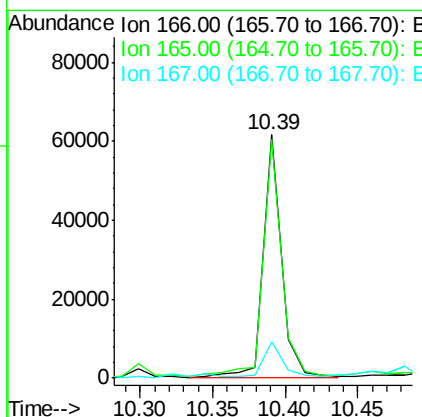
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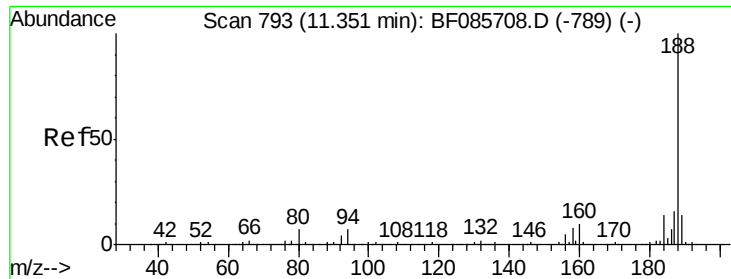
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#57
Fluorene
Concen: 5.05 ng
RT: 10.39 min Scan# 709
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	54594		
165	97.8	79.4	119.0	
167	14.7	11.0	16.4	





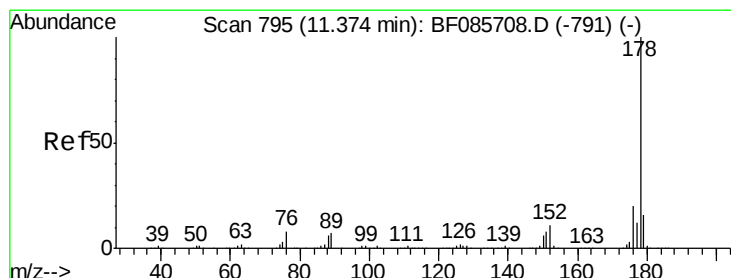
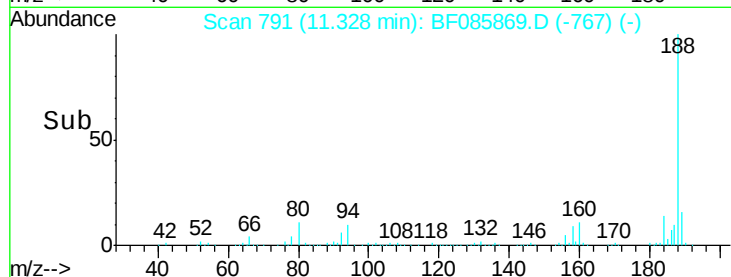
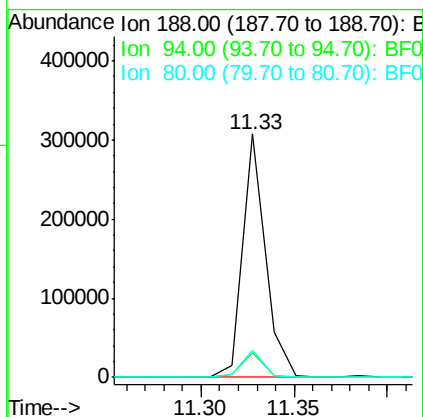
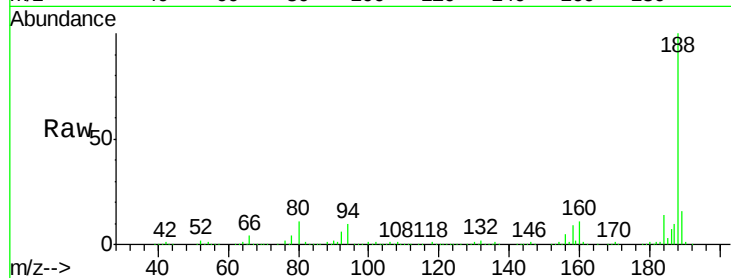
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.33 min Scan# 791
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Instrument :
BNA_F
ClientSampleId :
TP-14

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	10.3	5.4	8.0#
80	11.4	5.5	8.3#

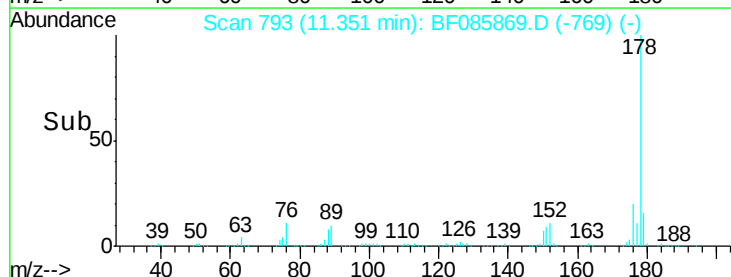
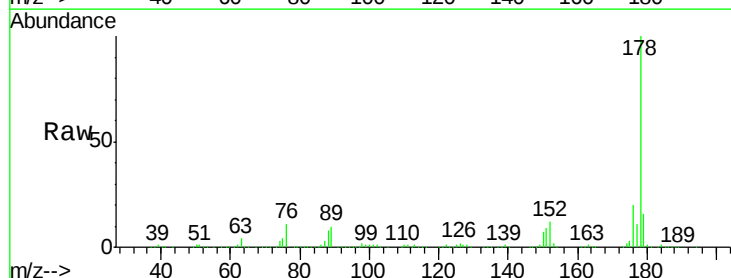
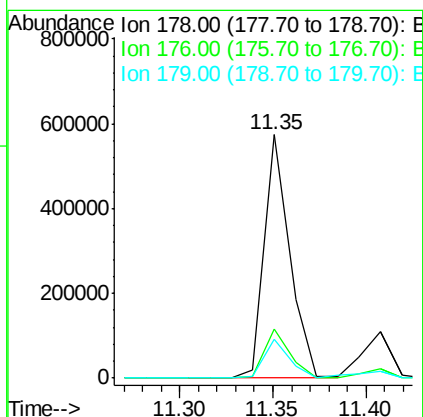
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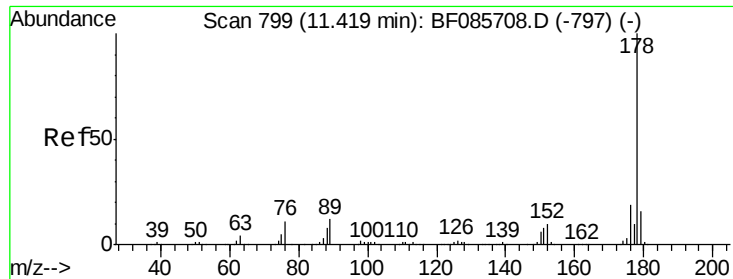
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#70
Phenanthrene
Concen: 39.95 ng
RT: 11.35 min Scan# 793
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.1	16.3	24.5
179	15.9	12.6	18.8





#71

Anthracene

Concen: 8.19 ng

RT: 11.41 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Instrument :

BNA_F

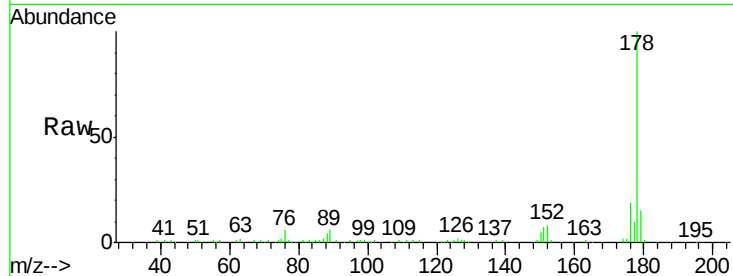
ClientSampled :

TP-14

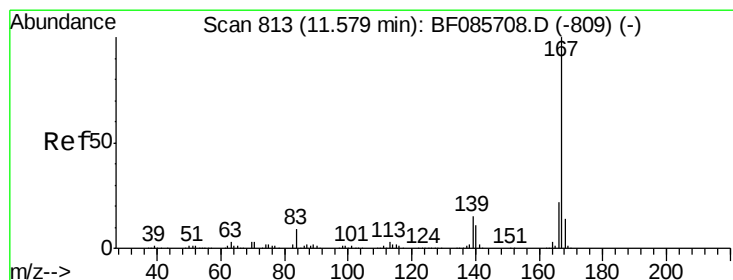
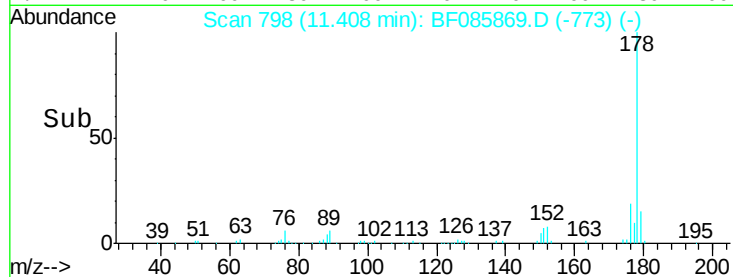
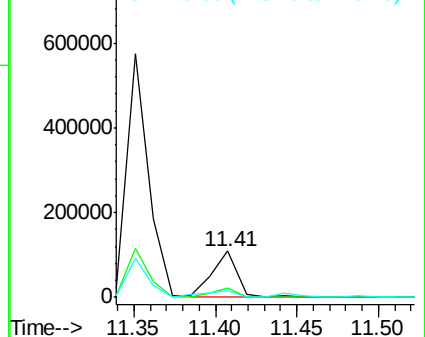
Tgt Ion:	178	Resp:	116034
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.9	23.9
179	15.2	13.0	19.4

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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



#72

Carbazole

Concen: 3.00 ng

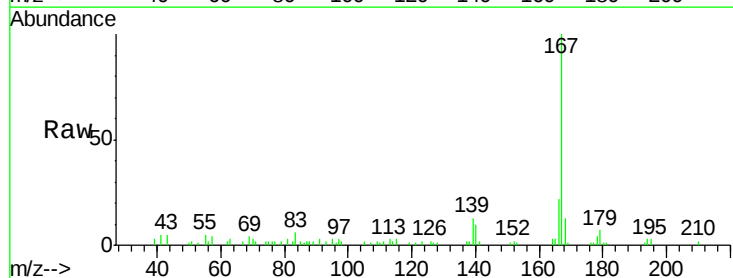
RT: 11.57 min Scan# 812

Delta R.T. -0.01 min

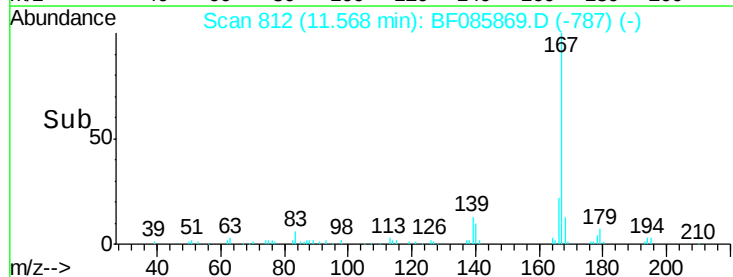
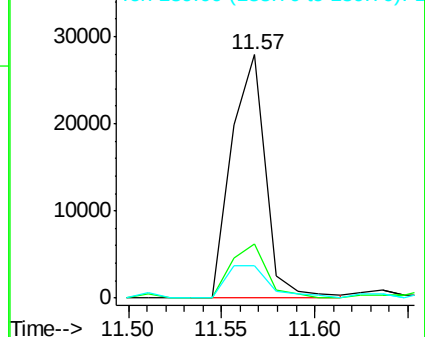
Lab File: BF085869.D

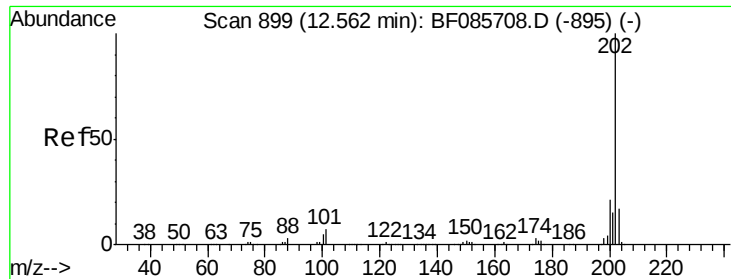
Acq: 30 Mar 2016 00:46

Tgt Ion:	167	Resp:	35737
Ion Ratio	Lower	Upper	
167	100		
166	22.1	17.8	26.8
139	13.1	11.6	17.4



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 44.11 ng

RT: 12.54 min Scan# 897

Delta R.T. -0.02 min

Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Instrument :

BNA_F

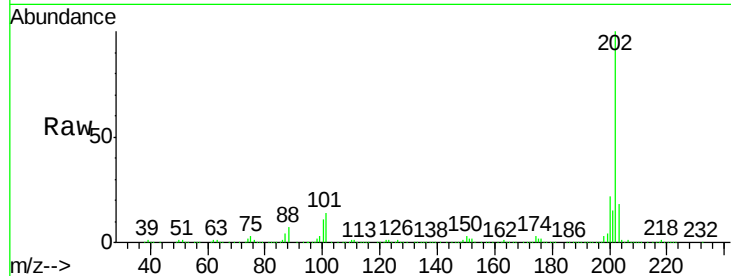
ClientSampleId :

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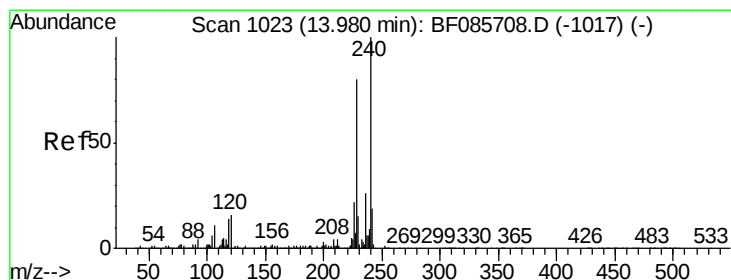
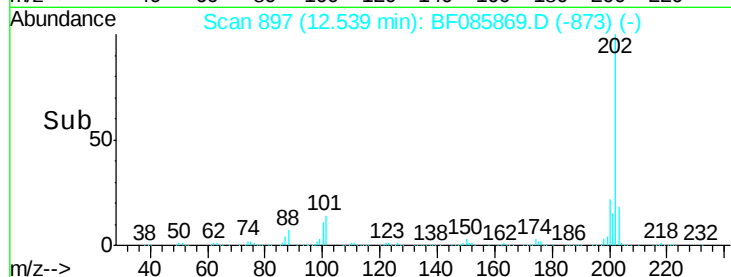
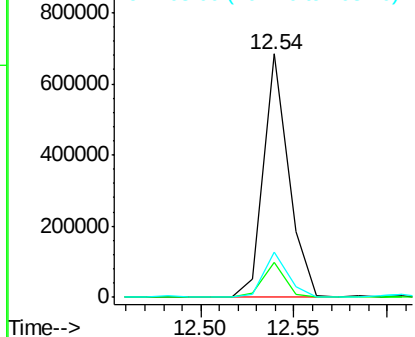
Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	14.5	0.0	36.6
203	18.3	0.0	38.1

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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

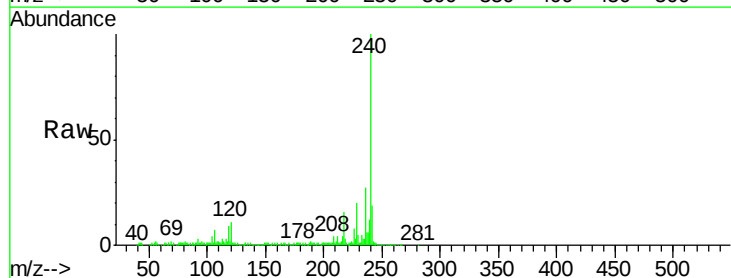
RT: 13.97 min Scan# 1022

Delta R.T. -0.01 min

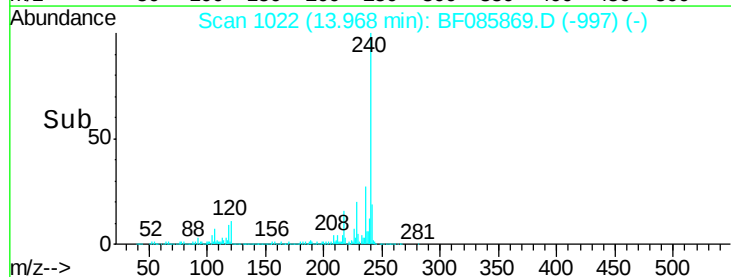
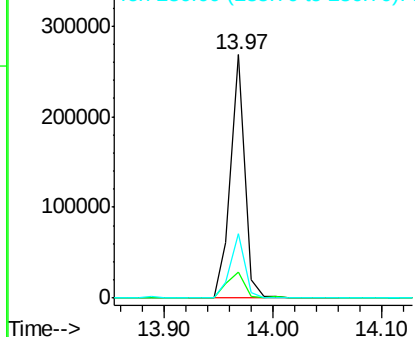
Lab File: BF085869.D

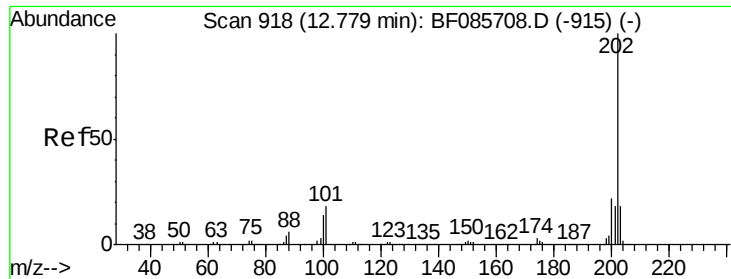
Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	10.8	13.8	20.8#
236	26.6	20.6	30.8



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

Pyrene

Concen: 27.46 ng

RT: 12.77 min Scan# 917

Delta R.T. -0.01 min

Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Instrument :

BNA_F

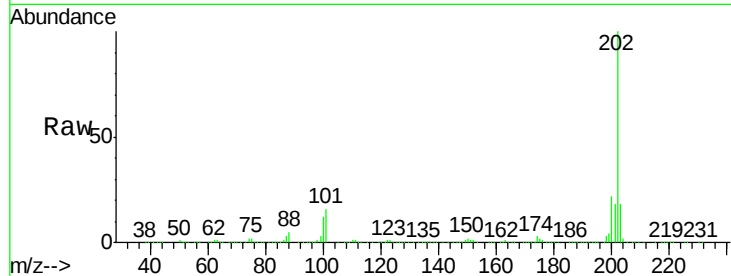
ClientSampleId :

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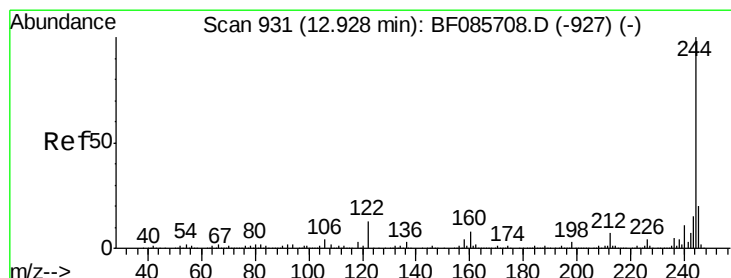
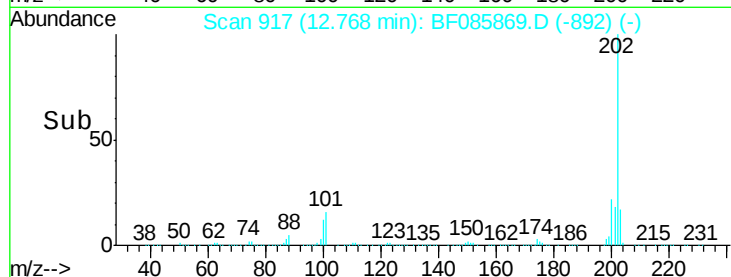
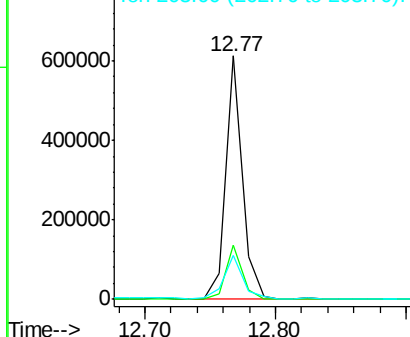
Tgt	Ion:202	Resp:	548271
Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.6	26.4
203	17.9	14.0	21.0

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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: 34.03 ng

RT: 12.92 min Scan# 930

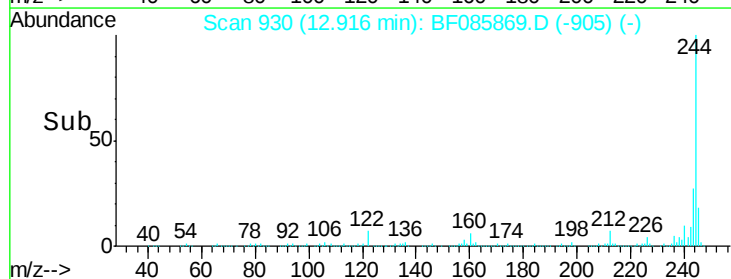
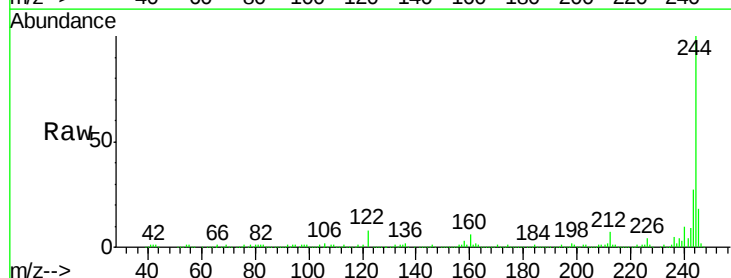
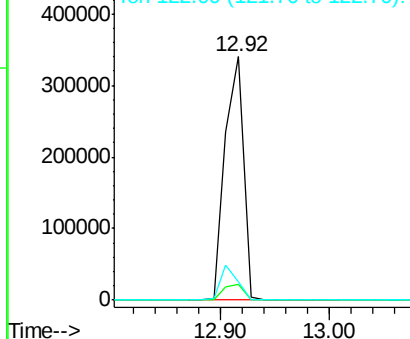
Delta R.T. -0.01 min

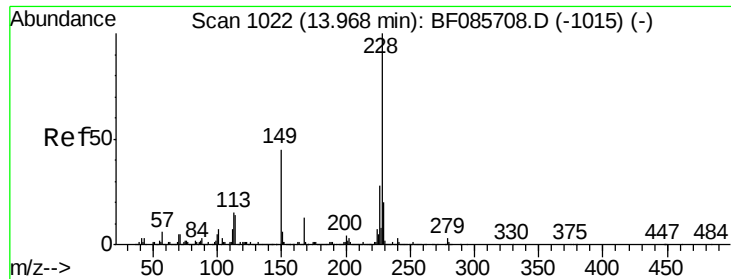
Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Tgt	Ion:244	Resp:	401942
Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.1	9.1
122	7.6	10.2	15.4#

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





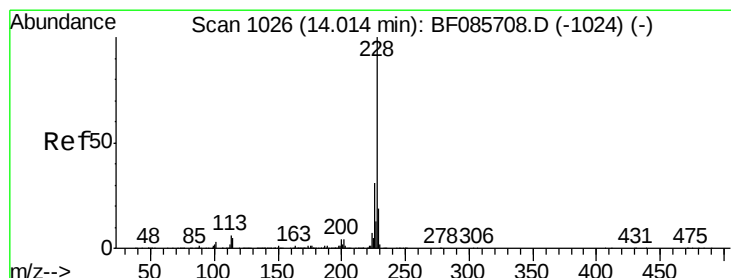
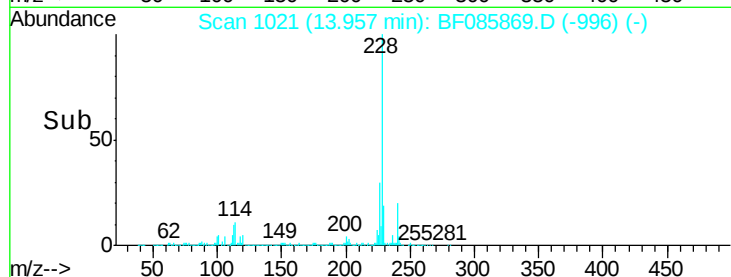
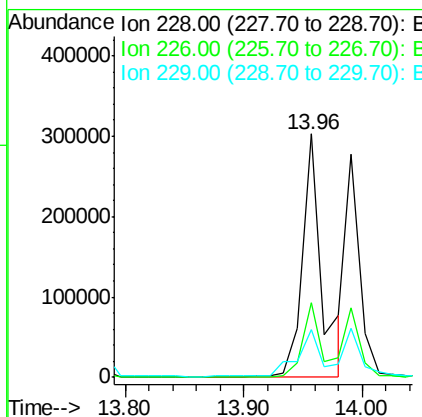
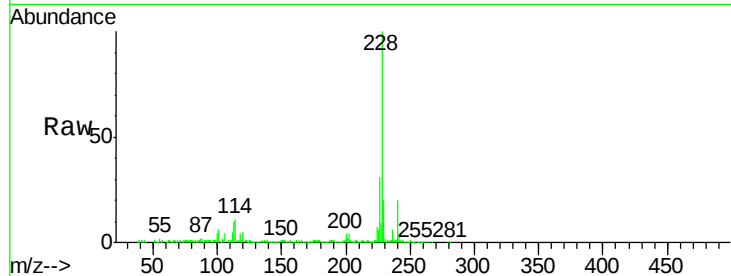
#80
Benzo(a)anthracene
Concen: 24.79 ng
RT: 13.96 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Instrument :
BNA_F
ClientSampled :
TP-14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	22.1	33.1
229	19.8	16.2	24.4

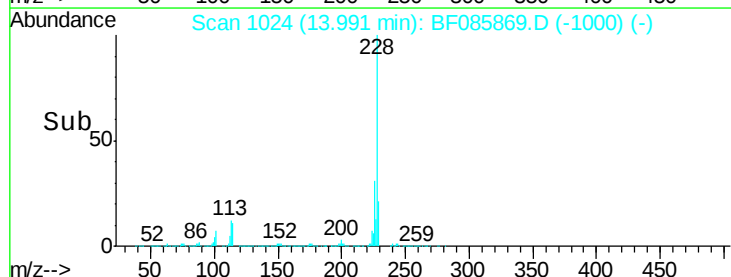
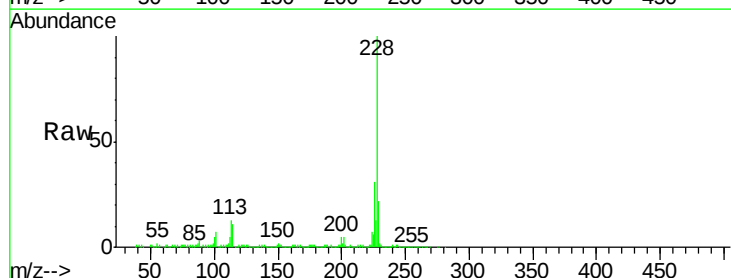
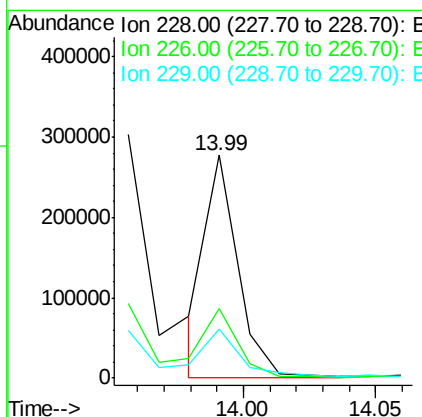
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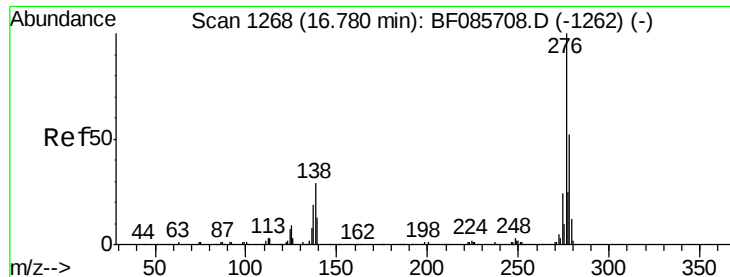
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#82
Chrysene
Concen: 16.86 ng m
RT: 13.99 min Scan# 1024
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	21.8	15.7	23.5





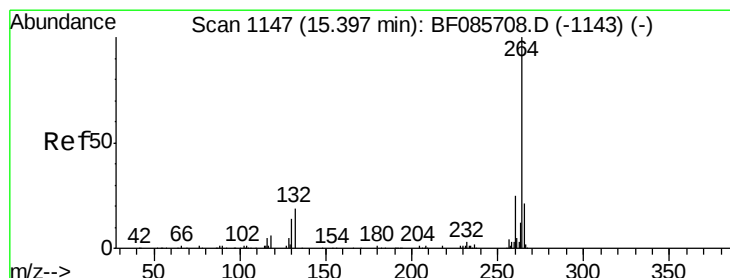
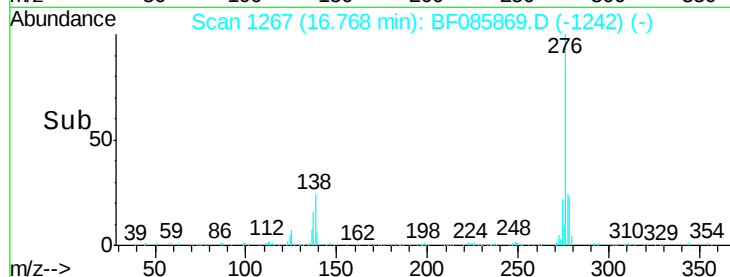
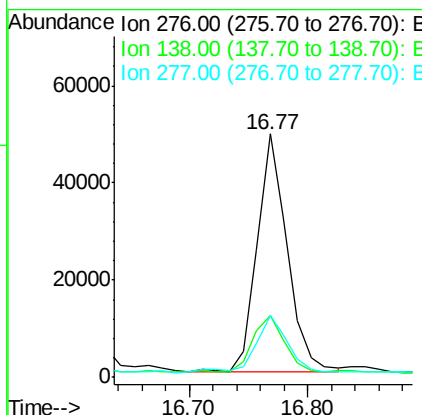
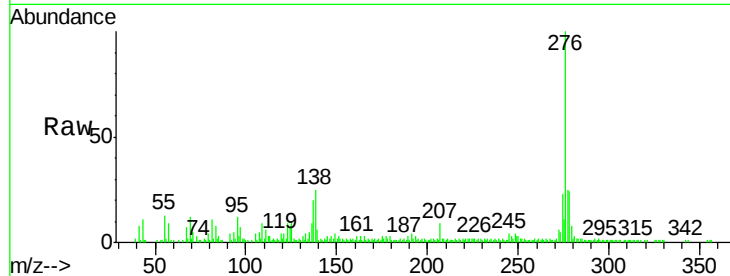
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.09 ng
 RT: 16.77 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: BF085869.D
 Acq: 30 Mar 2016 00:46

Instrument :
 BNA_F
 ClientSampleId :
 TP-14

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.8	24.2	36.4
277	26.2	20.0	30.0

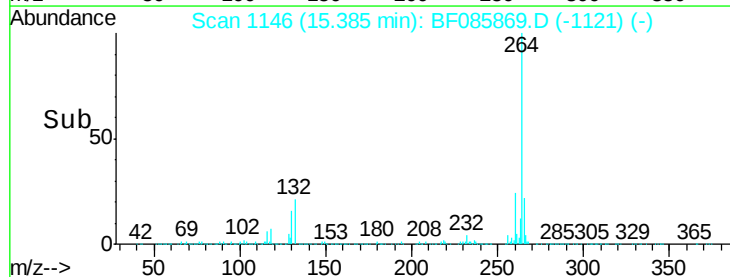
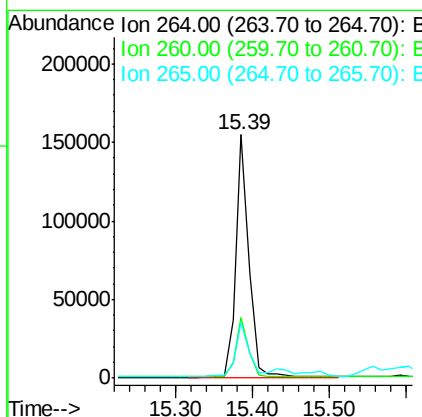
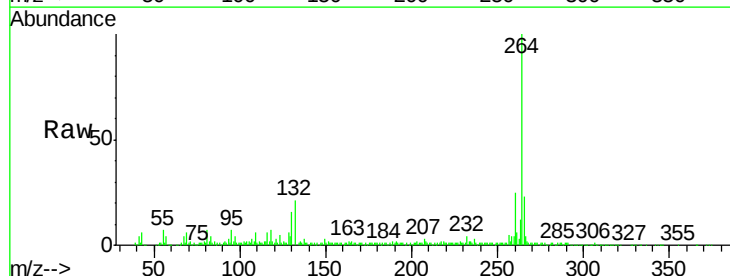
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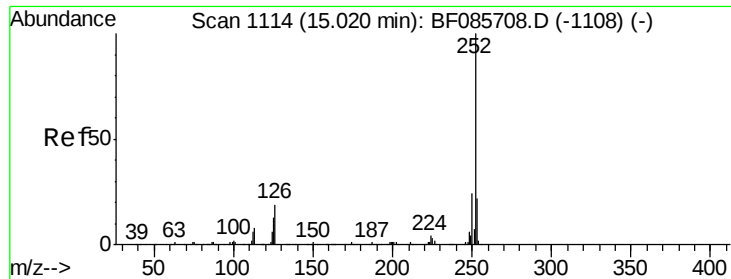
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.39 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF085869.D
 Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.4	29.2
265	22.8	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 24.43 ng m

RT: 14.99 min Scan# 1111

Delta R.T. -0.01 min

Lab File: BF085869.D

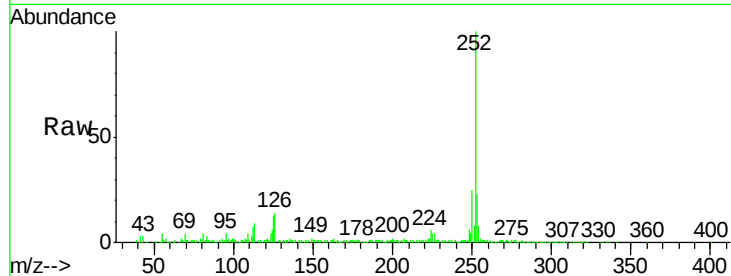
Acq: 30 Mar 2016 00:46

Instrument :

BNA_F

ClientSampleId :

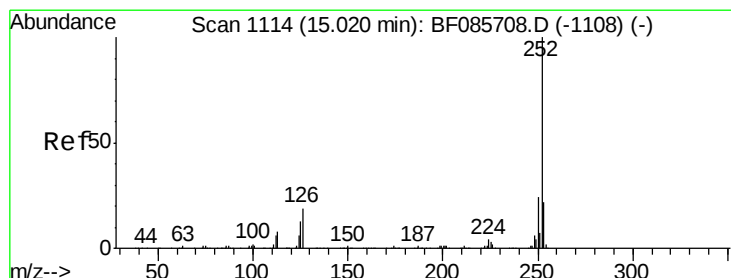
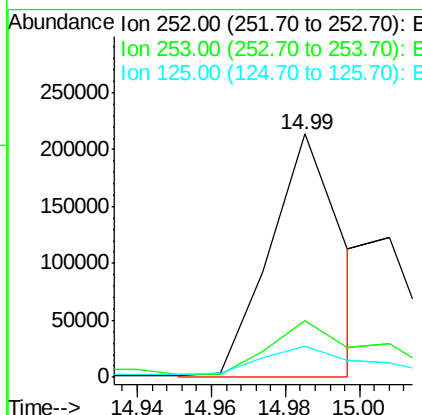
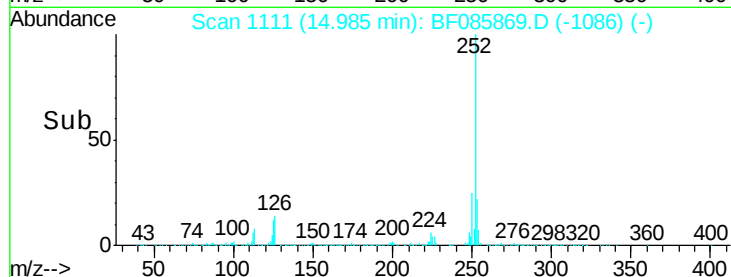
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Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	12.9	10.3	15.5

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#88

Benzo(k)fluoranthene

Concen: 10.01 ng m

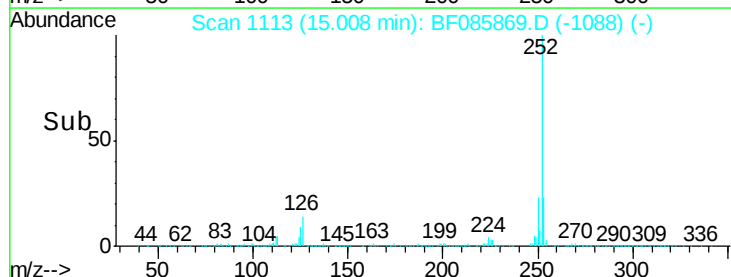
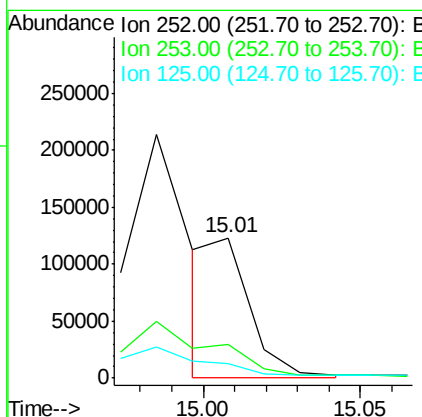
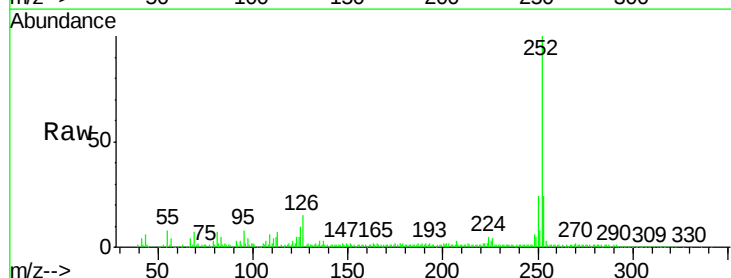
RT: 15.01 min Scan# 1113

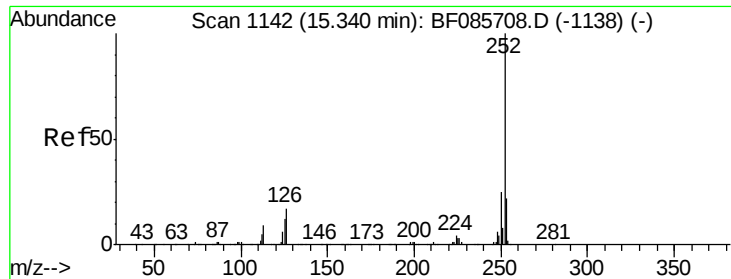
Delta R.T. -0.01 min

Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.6
125	10.5	7.7	11.5





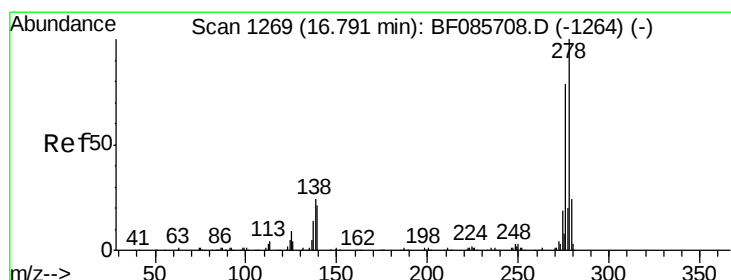
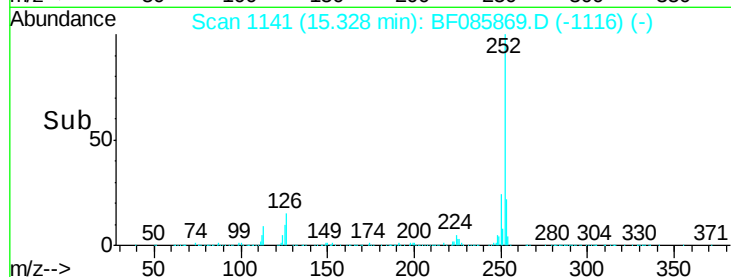
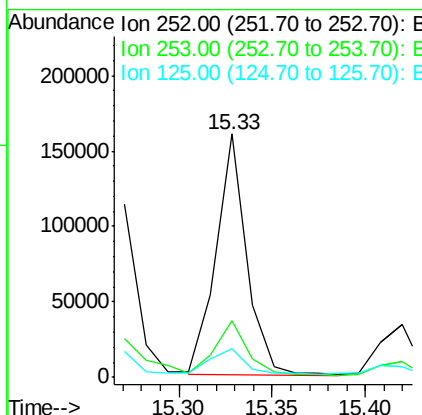
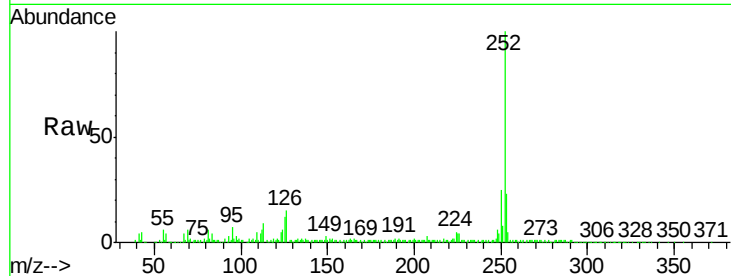
#89
Benzo(a)pyrene
Concen: 17.41 ng
RT: 15.33 min Scan# 1141
Delta R.T. -0.01 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Instrument :
BNA_F
ClientSampleId :
TP-14

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.4	17.4	26.0
125	12.0	10.3	15.5

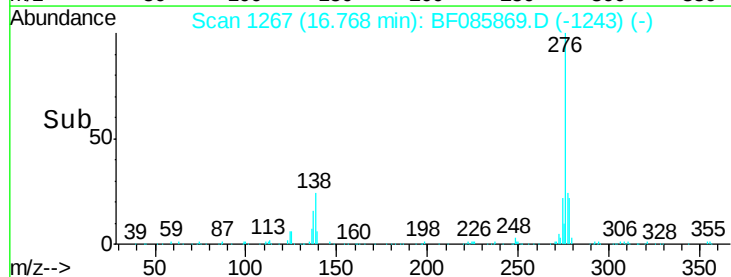
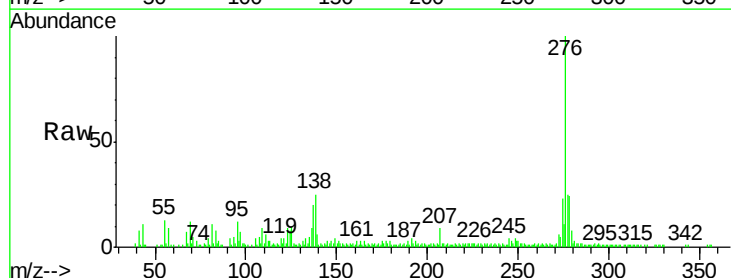
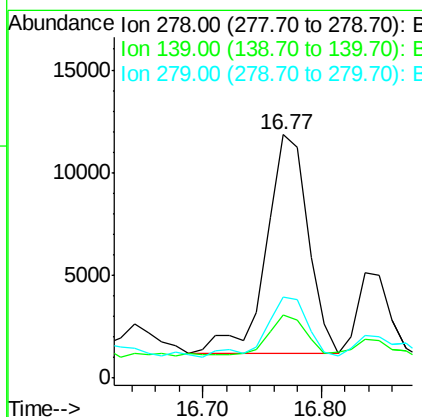
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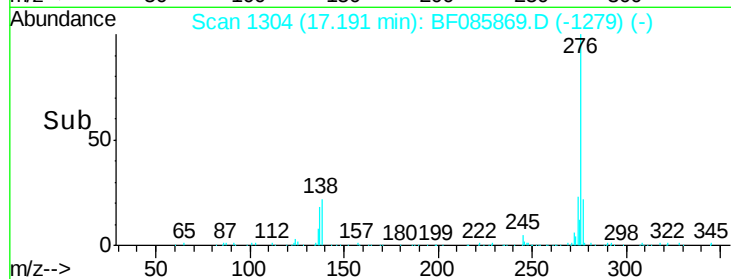
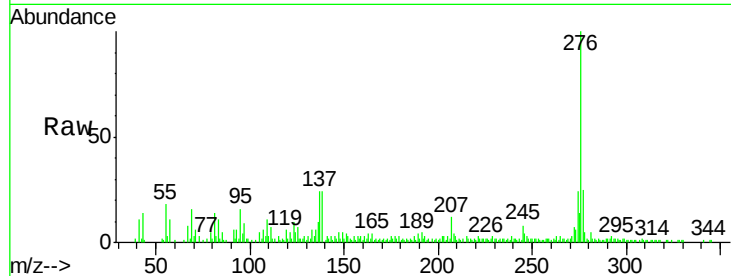
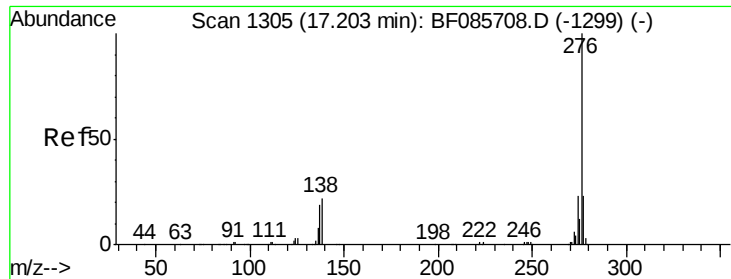
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#90
Dibenzo(a,h)anthracene
Concen: 2.67 ng
RT: 16.77 min Scan# 1267
Delta R.T. -0.02 min
Lab File: BF085869.D
Acq: 30 Mar 2016 00:46

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	26.2	14.4	21.6#
279	33.2	19.1	28.7#





#91

Benzo(g,h,i)perylene

Concen: 7.77 ng

RT: 17.19 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF085869.D

Acq: 30 Mar 2016 00:46

Tgt Ion:	276	Resp:	77008
Ion Ratio	Lower	Upper	
276	100		
277	24.8	18.8	28.2
138	24.5	22.6	34.0

Instrument :

BNA_F

ClientSampleId :

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