

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040616\
 Data File : BF086113.D
 Acq On : 6 Apr 2016 22:27
 Operator : UM/SJ
 Sample : H2074-04
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB03

Manual Integrations
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Sohil
 4/7/2016 5:59:03 PM

Quant Time: Apr 07 14:44:26 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	108020	20.00	ng	-0.03
21) Naphthalene-d8	8.03	136	410358	20.00	ng	-0.03
38) Acenaphthene-d10	9.78	164	158810	20.00	ng	-0.03
63) Phenanthrene-d10	11.26	188	250596	20.00	ng	-0.03
75) Chrysene-d12	13.91	240	232344	20.00	ng	-0.02
86) Perylene-d12	15.30	264	178980	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	828579	131.11	ng	-0.02
7) Phenol-d6	6.40	99	1055176	131.45	ng	-0.02
23) Nitrobenzene-d5	7.31	82	547696	78.71	ng	-0.03
41) 2,4,6-Tribromophenol	10.57	330	151869	101.89	ng	-0.03
44) 2-Fluorobiphenyl	9.10	172	824535	86.33	ng	-0.03
78) Terphenyl-d14	12.84	244	636042	64.35	ng	-0.03
Target Compounds						Qvalue
48) Acenaphthylene	9.64	152	60084	3.78	ng	98
49) Dimethylphthalate	9.50	163	188469	16.01	ng	99
51) Acenaphthene	9.81	154	28313	2.99	ng	98
54) Dibenzofuran	9.98	168	26331	2.11	ng	95
57) Fluorene	10.33	166	35916	3.37	ng	97
70) Phenanthrene	11.29	178	519584	38.01	ng	99
71) Anthracene	11.33	178	130530	9.11	ng	99
72) Carbazole	11.50	167	45293	3.68	ng	98
74) Fluoranthene	12.48	202	761273	53.54	ng	96
77) Pyrene	12.71	202	767069	46.85	ng	99
80) Benzo(a)anthracene	13.89	228	478088	34.91	ng	97
82) Chrysene	13.93	228	455852m	34.55	ng	
85) Indeno(1,2,3-cd)pyrene	16.65	276	146190	13.66	ng	98
87) Benzo(b)fluoranthene	14.91	252	450867m	40.05	ng	
88) Benzo(k)fluoranthene	14.92	252	180770m	18.13	ng	
89) Benzo(a)pyrene	15.24	252	288474	28.92	ng	# 92
90) Dibenzo(a,h)anthracene	16.65	278	36093	4.50	ng	# 82
91) Benzo(g,h,i)perylene	17.06	276	136685	17.60	ng	95

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

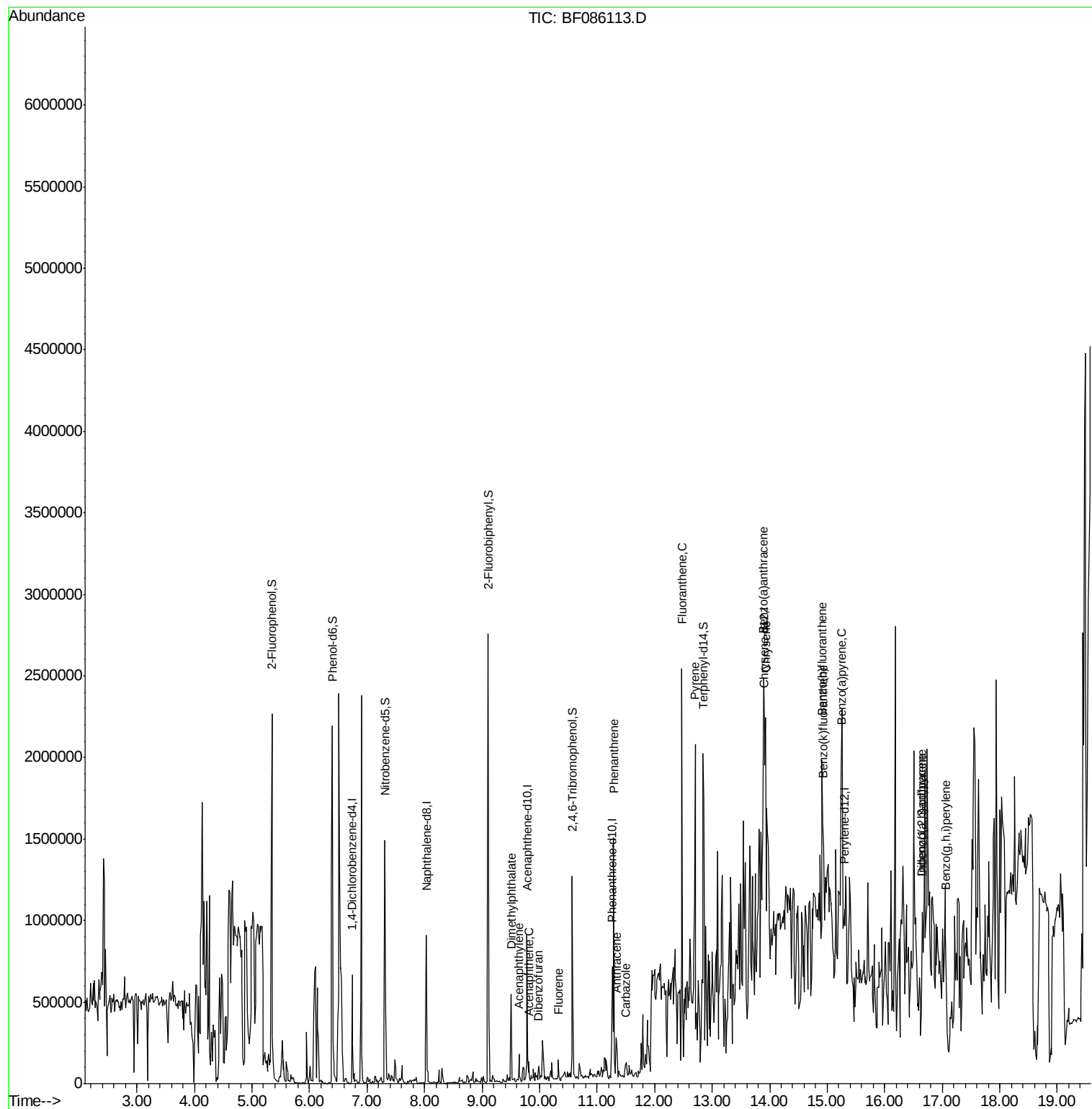
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040616\
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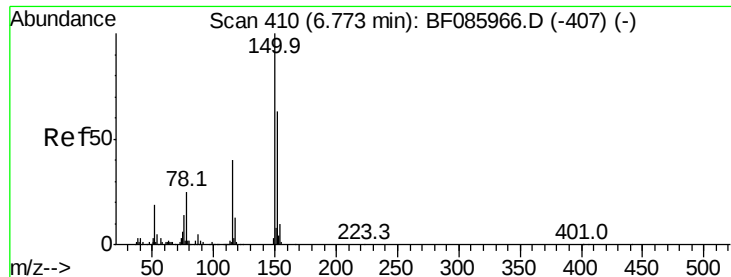
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 407

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

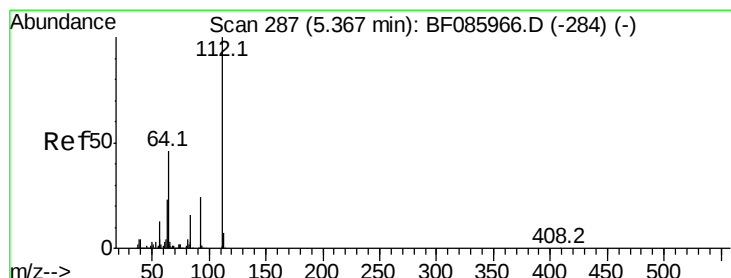
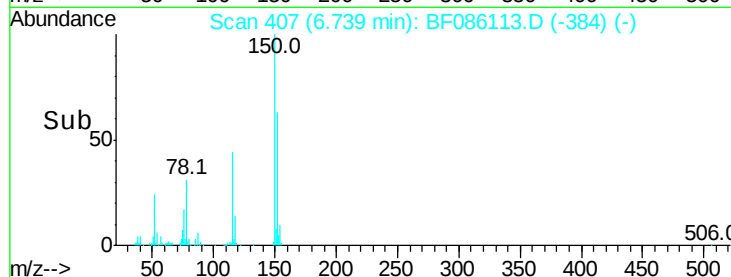
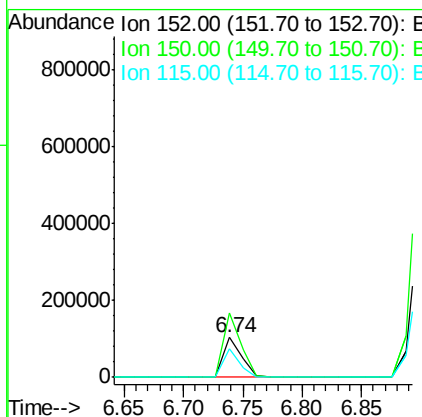
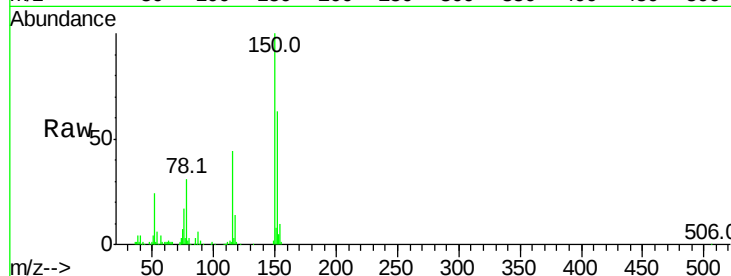
ClientSampleId :

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Tot Ion:	152	Resp:	108020
Ion Ratio	Lower	Upper	
152	100		
150	159.9	124.2	186.2
115	70.2	47.0	70.6



#5

2-Fluorophenol

Concen: 131.11 ng

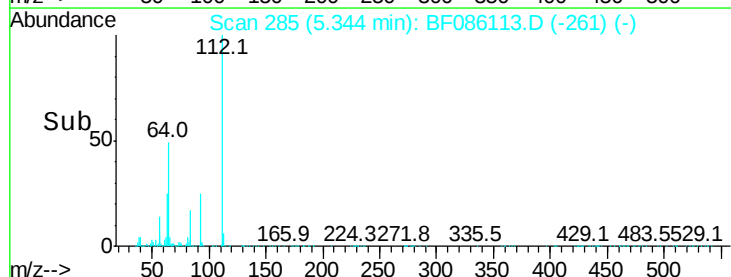
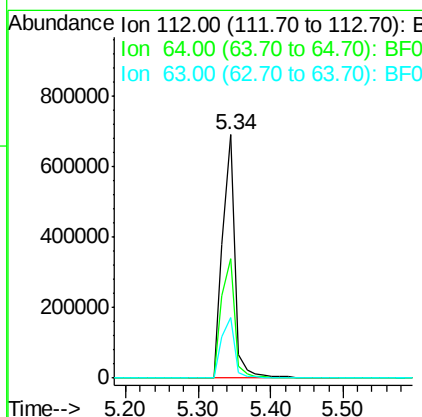
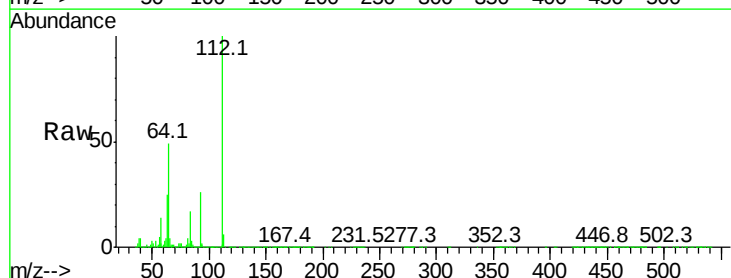
RT: 5.34 min Scan# 285

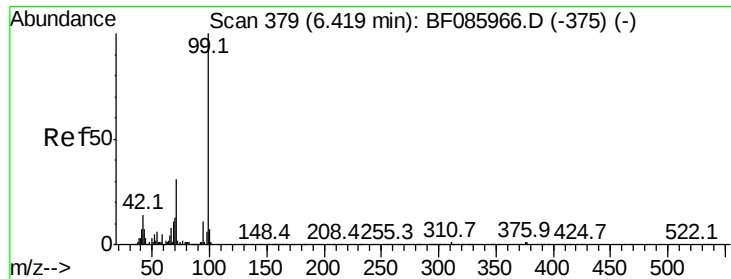
Delta R.T. -0.02 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Tgt Ion:	112	Resp:	828579
Ion Ratio	Lower	Upper	
112	100		
64	49.3	39.9	59.9
63	24.8	20.2	30.2





#7

Phenol-d6

Concen: 131.45 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

ClientSampleId :

SB03

Tot Ion: 99 Resp: 1055176

Ion Ratio Lower Upper

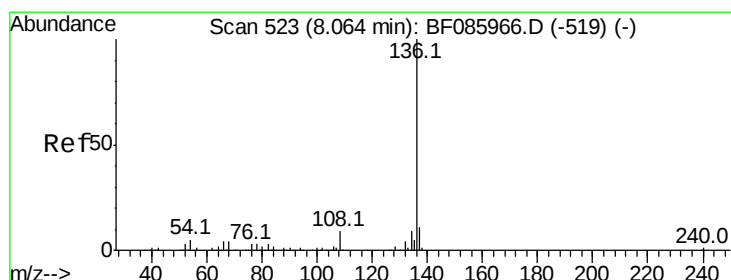
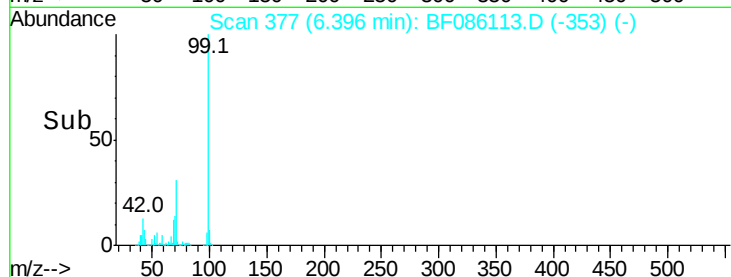
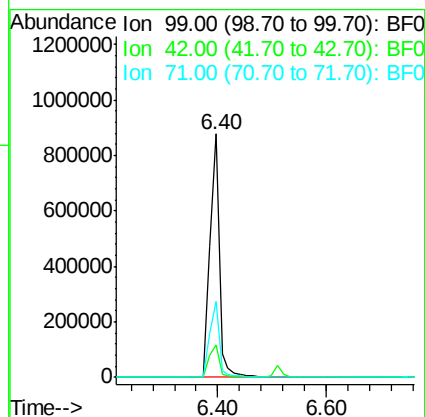
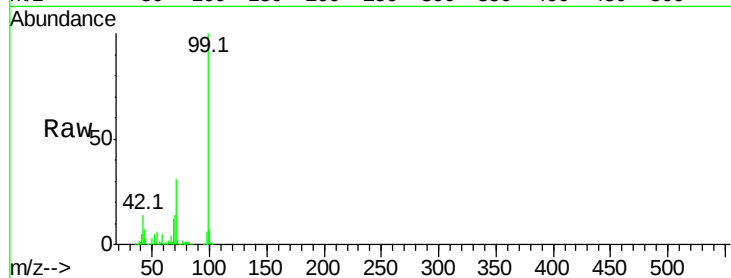
99 100

42 13.5 11.1 16.7

71 31.0 24.9 37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 520

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Tgt Ion: 136 Resp: 410358

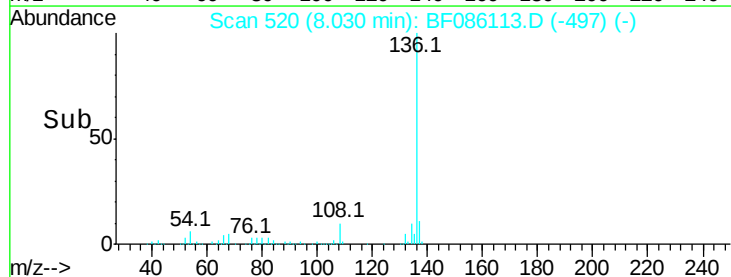
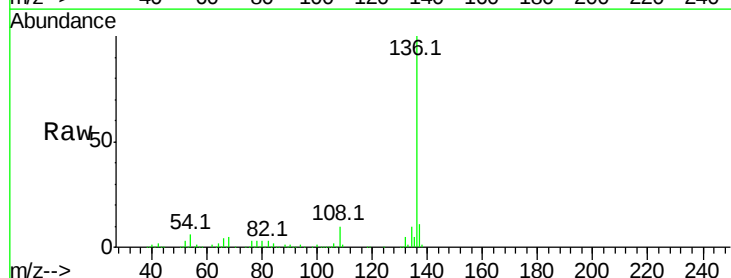
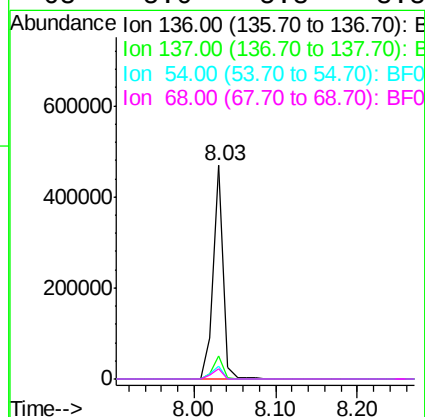
Ion Ratio Lower Upper

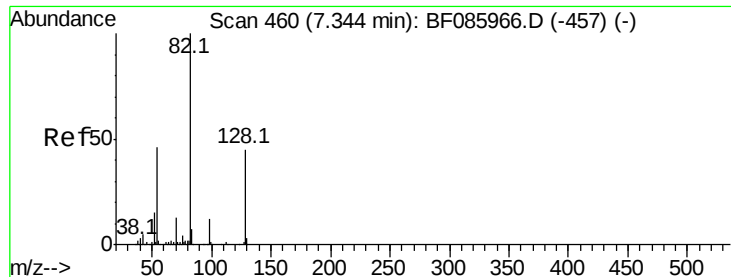
136 100

137 10.8 9.1 13.7

54 5.9 7.4 11.0#

68 5.0 5.8 8.8#





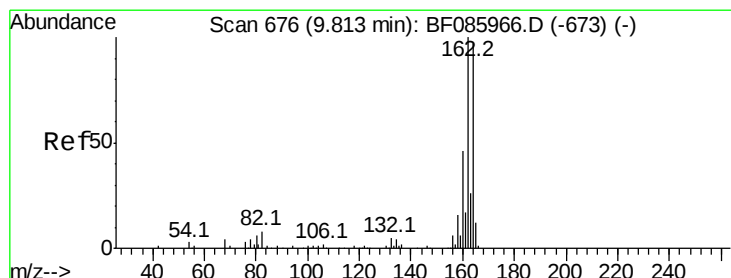
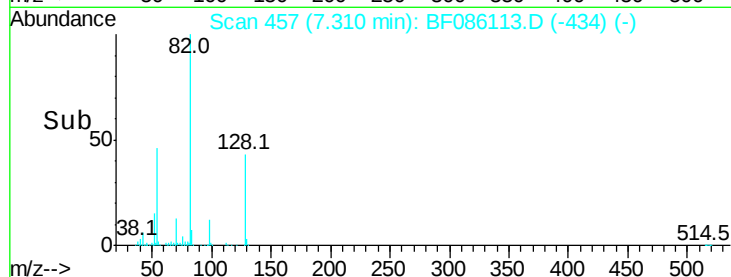
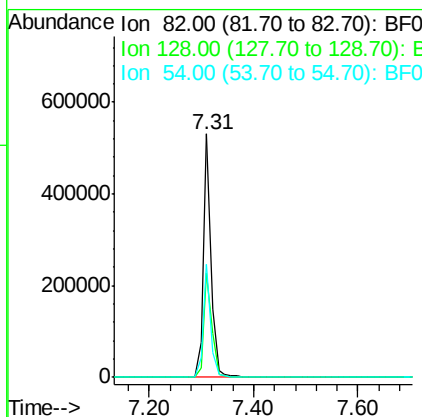
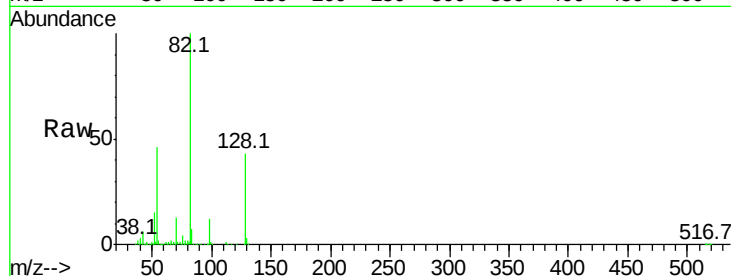
#23
Nitrobenzene-d5
Concen: 78.71 ng
RT: 7.31 min Scan# 457
Delta R.T. -0.03 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Instrument :
BNA_F
ClientSampleId :
SB03

Tot Ion	Ratio	Resp	Lower	Upper
82	100	547696		
128	42.9		41.8	62.8
54	46.4		33.4	50.0

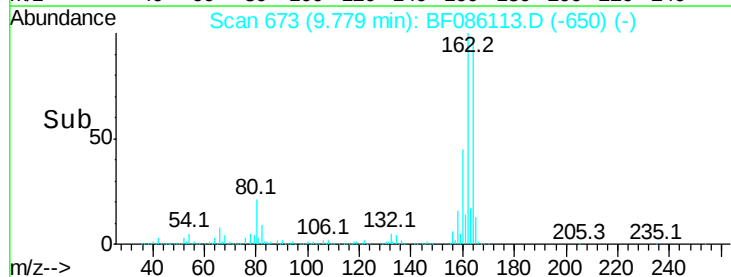
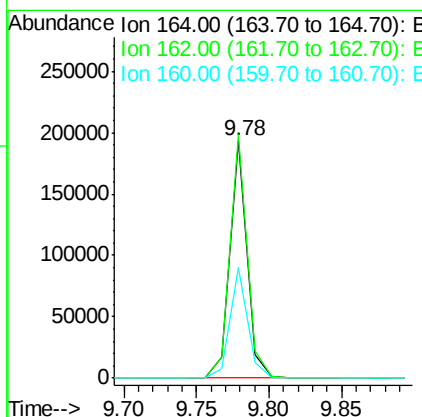
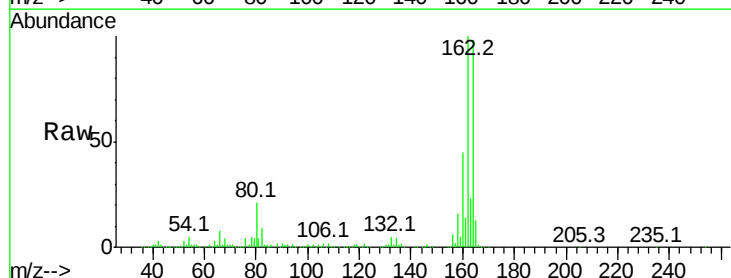
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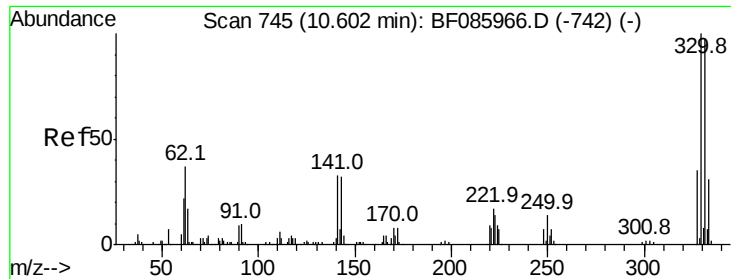
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.78 min Scan# 673
Delta R.T. -0.03 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	158810		
162	102.4		82.1	123.1
160	46.5		37.4	56.2





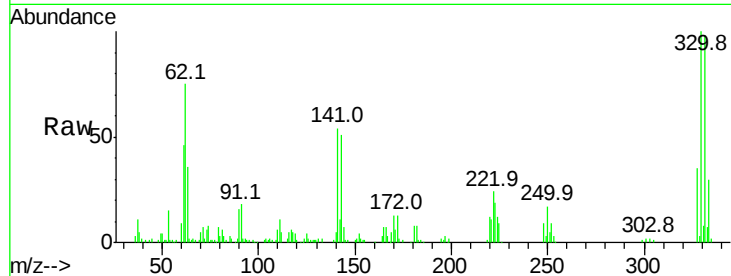
#41
 2,4,6-Tribromophenol
 Concen: 101.89 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.03 min
 Lab File: BF086113.D
 Acq: 6 Apr 2016 22:27

Instrument :
 BNA_F
 ClientSampled :
 SB03

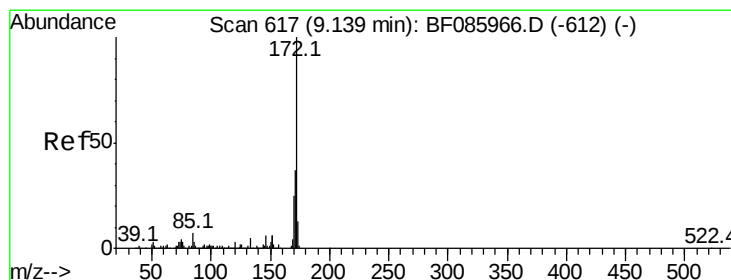
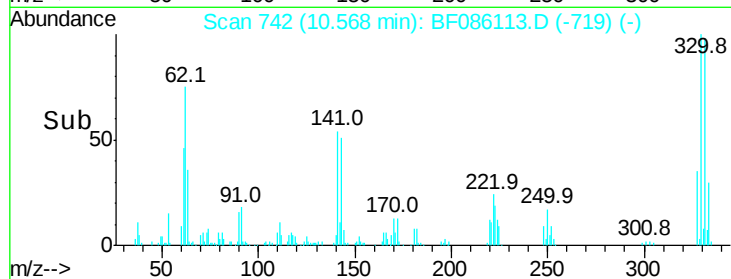
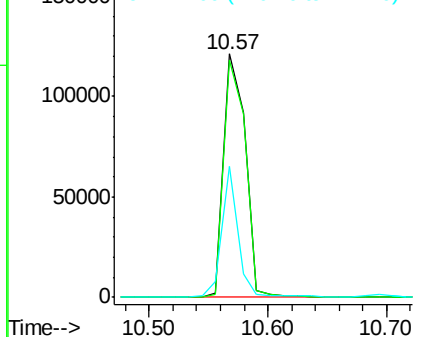
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.4	78.2	117.2	
141	41.2	31.5	47.3	

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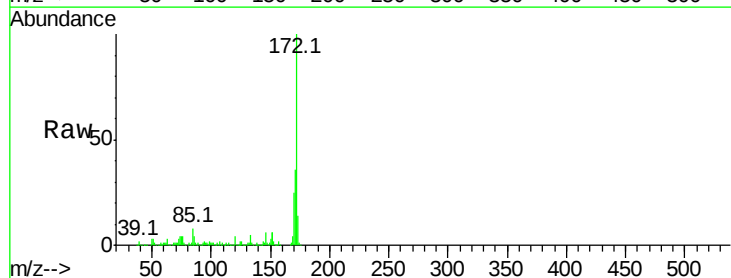


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

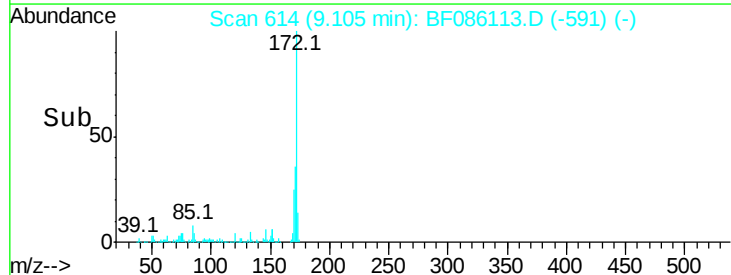
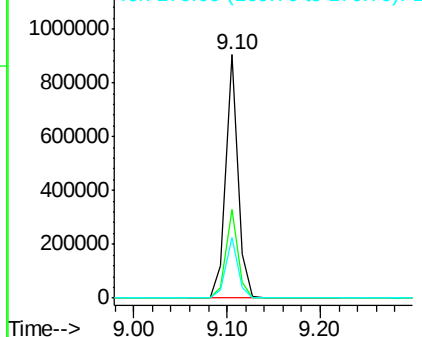


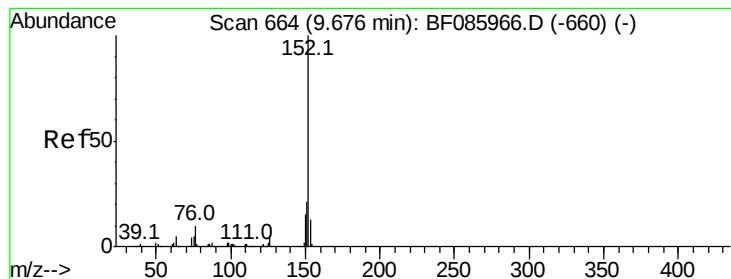
#44
 2-Fluorobiphenyl
 Concen: 86.33 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.03 min
 Lab File: BF086113.D
 Acq: 6 Apr 2016 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.5	29.4	44.2	
170	24.7	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: 3.78 ng

RT: 9.64 min Scan# 661

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

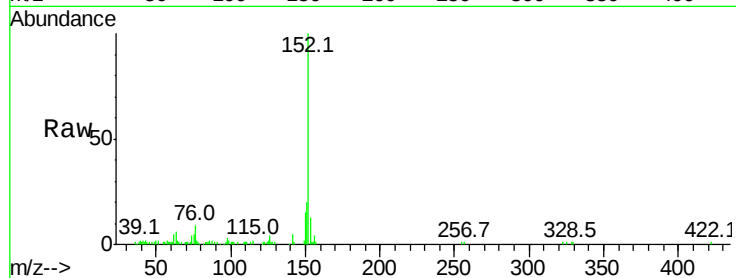
ClientSampleId :

SB03

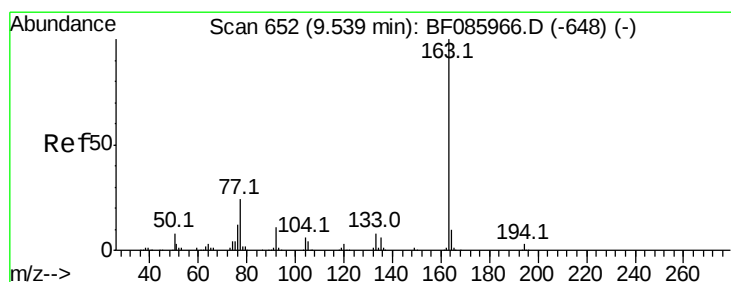
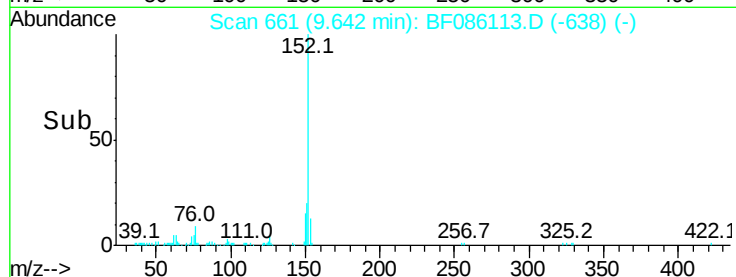
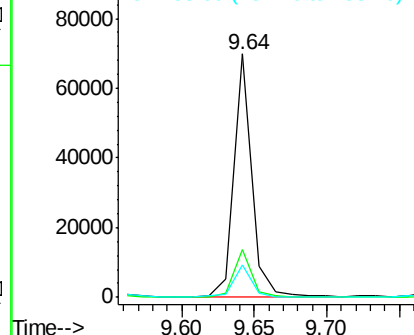
Tot Ion:	152	Resp:	60084
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.8	25.2
153	13.2	10.9	16.3

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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: 16.01 ng

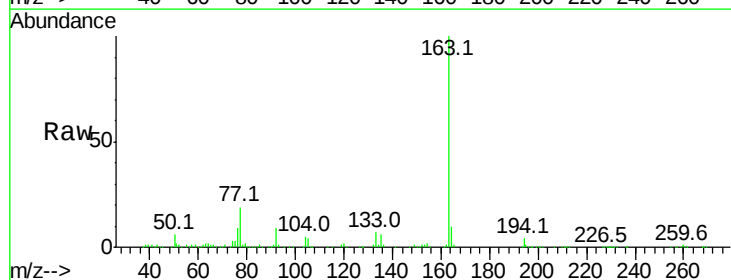
RT: 9.50 min Scan# 649

Delta R.T. -0.03 min

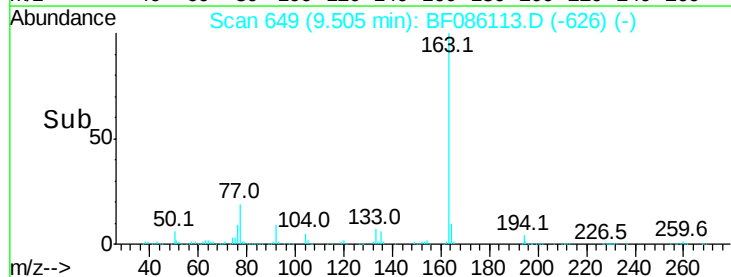
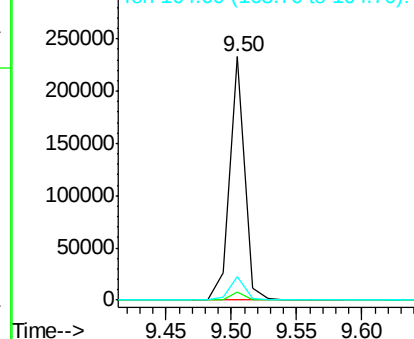
Lab File: BF086113.D

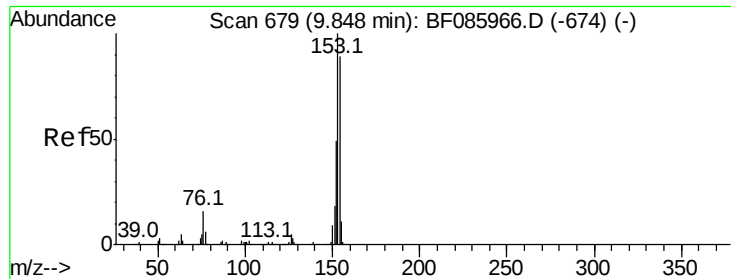
Acq: 6 Apr 2016 22:27

Tgt Ion:	163	Resp:	188469
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.9	4.3
164	9.7	8.3	12.5



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: 2.99 ng

RT: 9.81 min Scan# 676

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

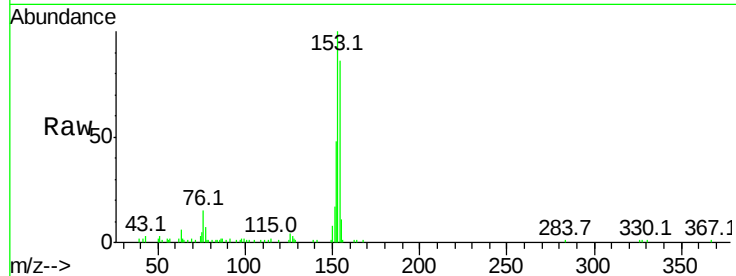
ClientSampleId :

SB03

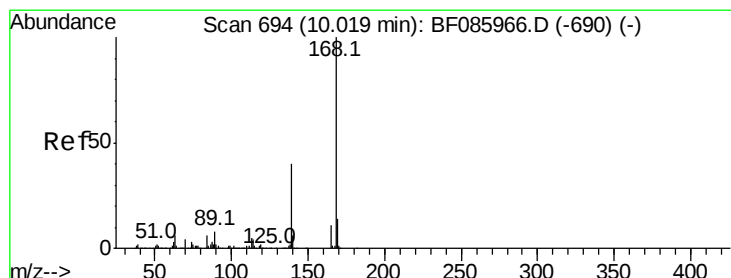
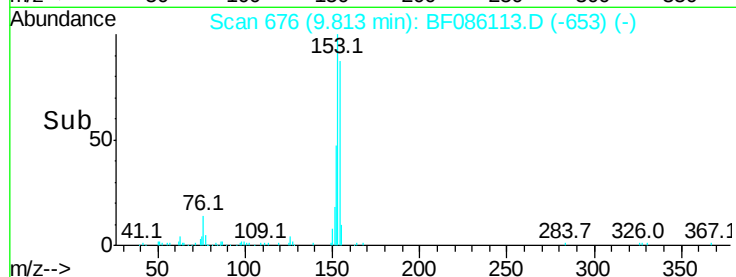
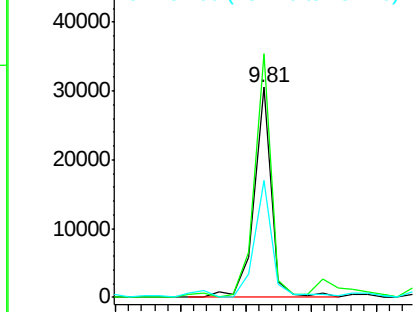
Tot Ion:	154	Resp:	28313
Ion Ratio	Lower	Upper	
154	100		
153	115.8	90.1	135.1
152	55.3	44.2	66.2

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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: 2.11 ng

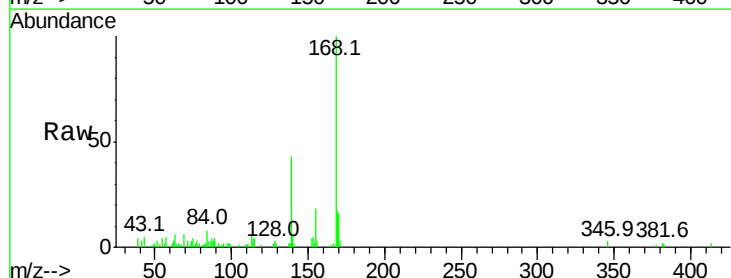
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Delta R.T. -0.03 min

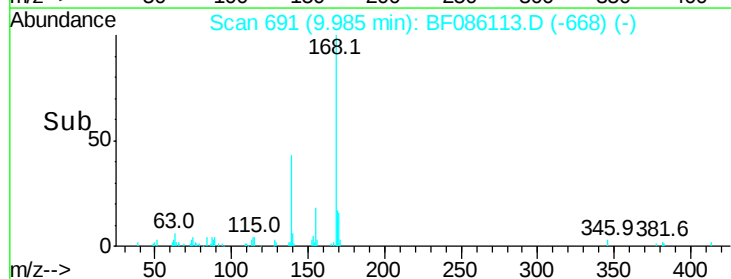
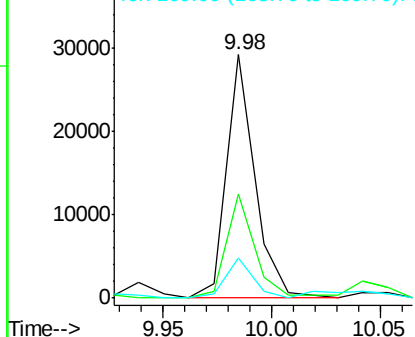
Lab File: BF086113.D

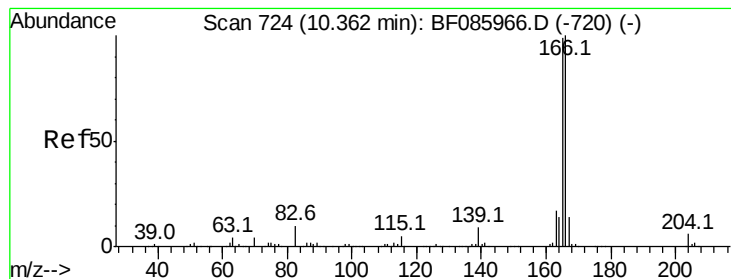
Acq: 6 Apr 2016 22:27

Tgt Ion:	168	Resp:	26331
Ion Ratio	Lower	Upper	
168	100		
139	42.5	31.9	47.9
169	16.5	11.0	16.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 3.37 ng

RT: 10.33 min Scan# 721

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

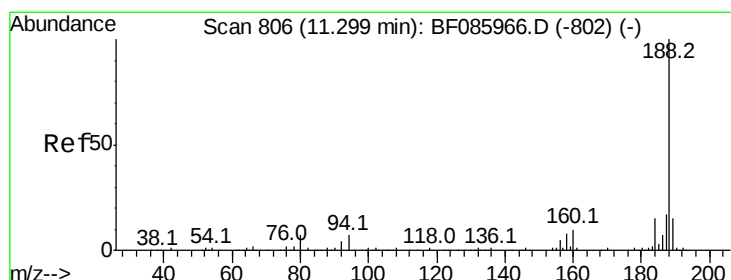
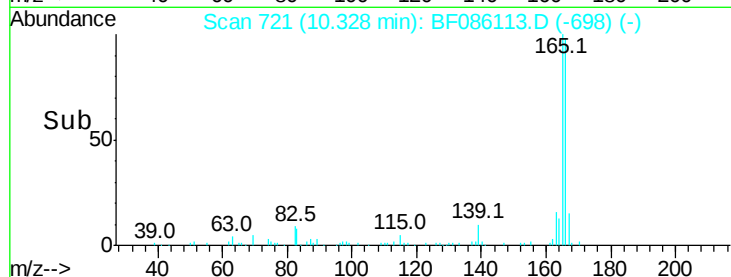
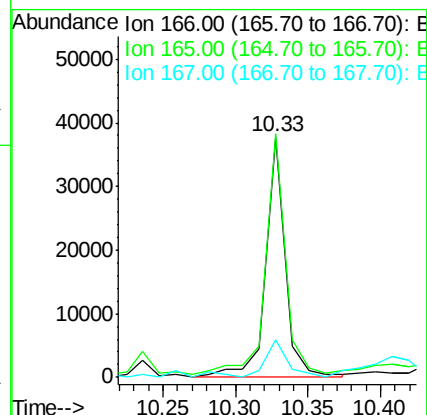
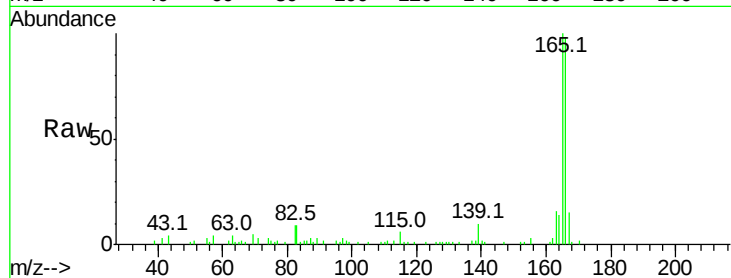
ClientSampled :

SB03

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Tot Ion:	166	Resp:	35916
Ion Ratio	Lower	Upper	
166	100		
165	101.5	79.4	119.0
167	15.5	11.0	16.4



#63

Phenanthrene-d10

Concen: 20.00 ng

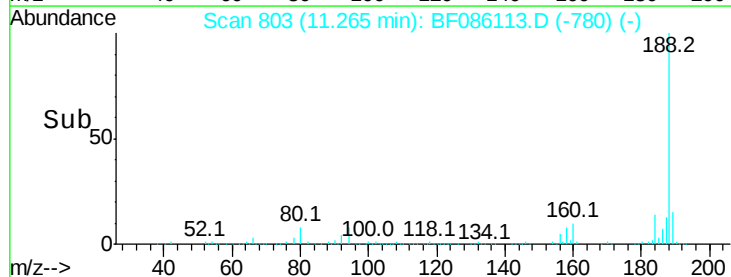
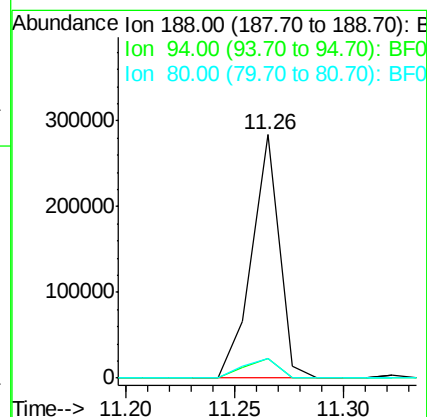
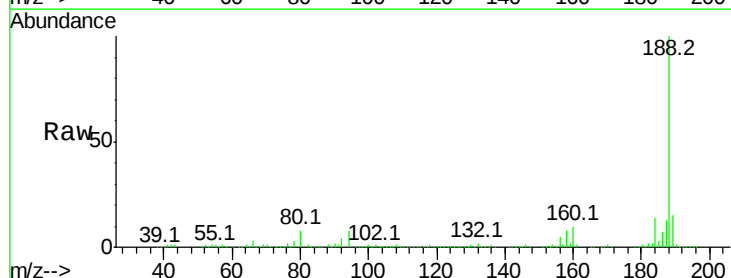
RT: 11.26 min Scan# 803

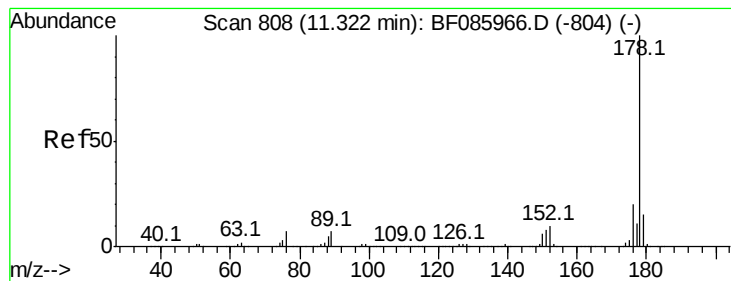
Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Tgt Ion:	188	Resp:	250596
Ion Ratio	Lower	Upper	
188	100		
94	7.9	5.4	8.0
80	8.0	5.5	8.3





#70

Phenanthrene

Concen: 38.01 ng

RT: 11.29 min Scan# 805

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

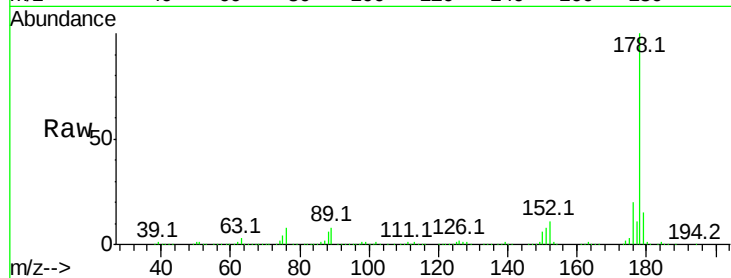
ClientSampled :

SB03

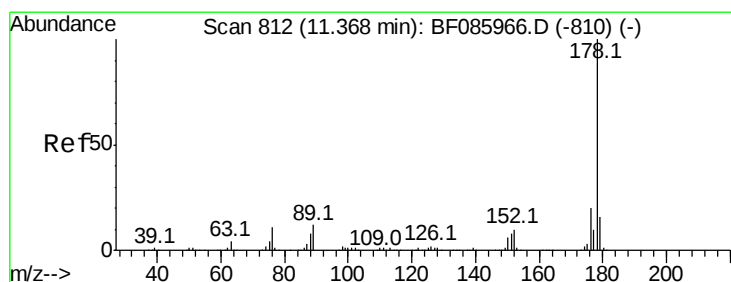
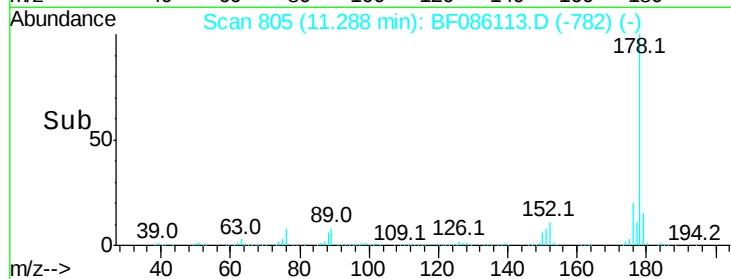
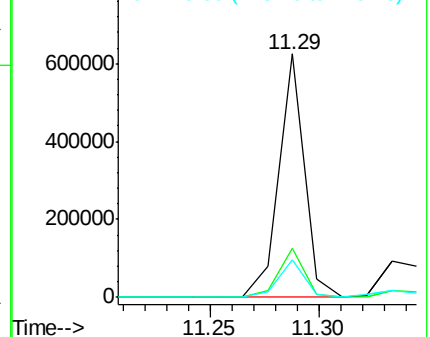
Tot Ion:178	Resp:	519584
Ion Ratio	Lower	Upper
178	100	
176	20.0	16.3 24.5
179	15.4	12.6 18.8

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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



#71

Anthracene

Concen: 9.11 ng

RT: 11.33 min Scan# 809

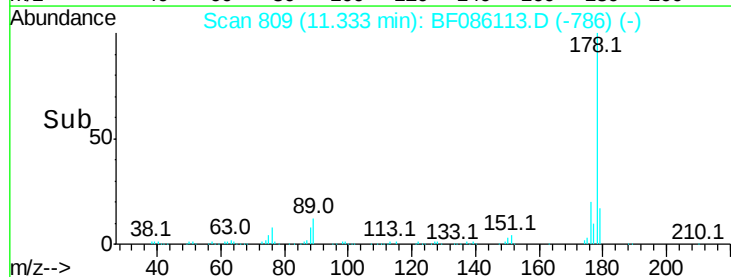
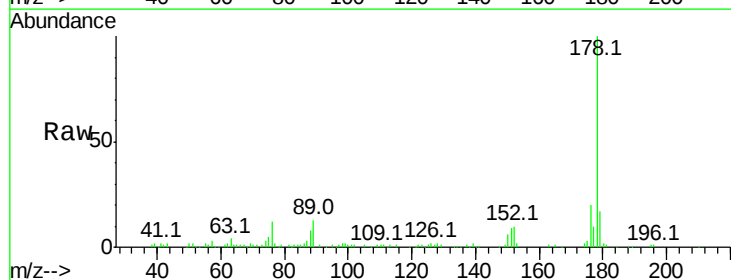
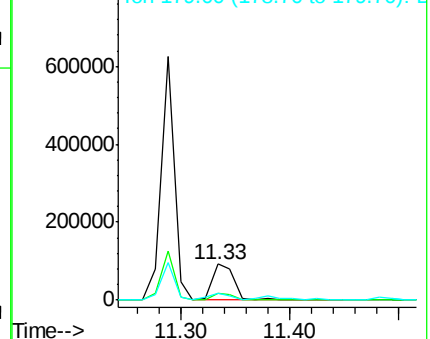
Delta R.T. -0.03 min

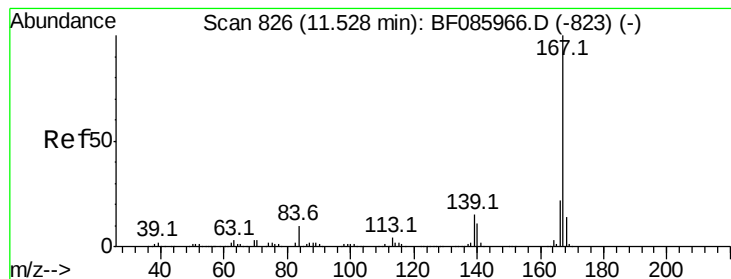
Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Tgt Ion:178	Resp:	130530
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.9 23.9
179	17.2	13.0 19.4

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





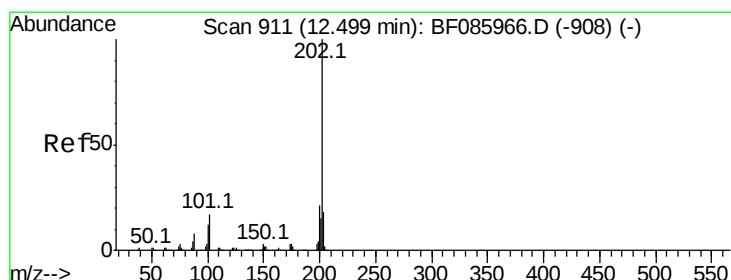
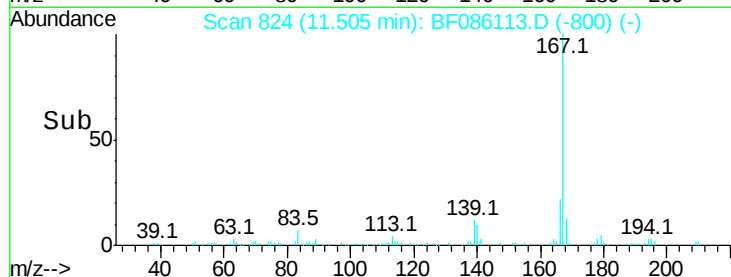
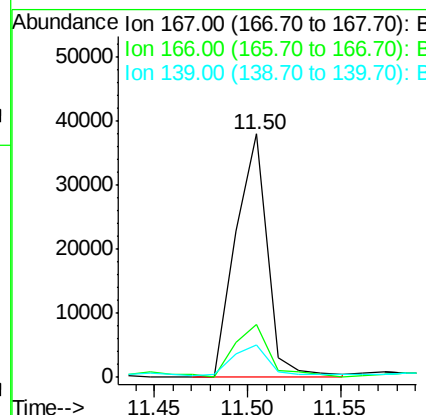
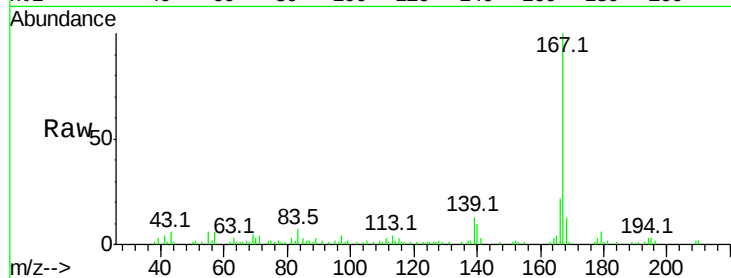
#72
 Carbazole
 Concen: 3.68 ng
 RT: 11.50 min Scan# 824
 Delta R.T. -0.02 min
 Lab File: BF086113.D
 Acq: 6 Apr 2016 22:27

Instrument :
 BNA_F
 ClientSampled :
 SB03

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.8	26.8
139	13.1	11.6	17.4

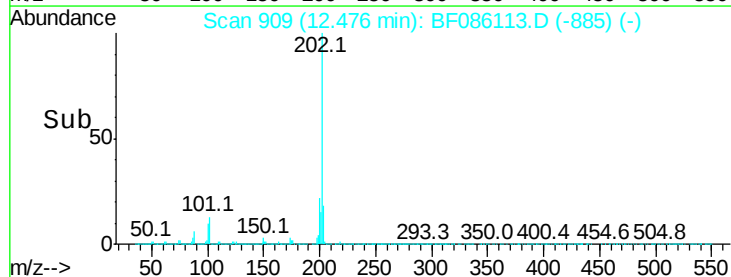
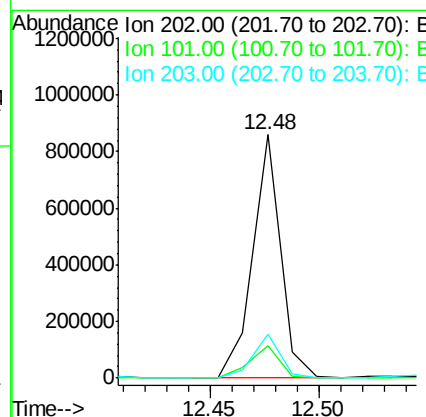
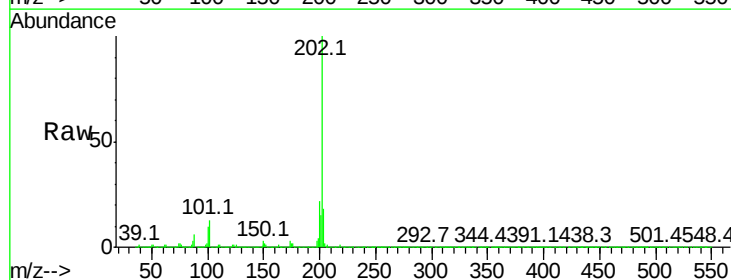
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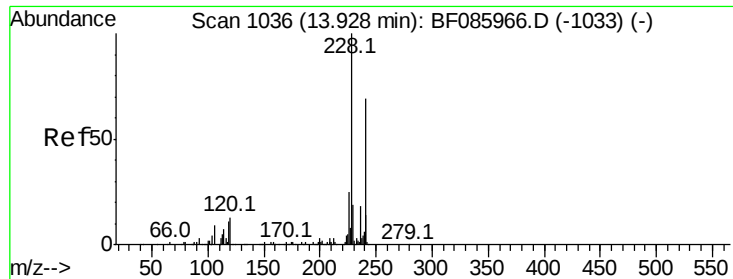
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#74
 Fluoranthene
 Concen: 53.54 ng
 RT: 12.48 min Scan# 909
 Delta R.T. -0.02 min
 Lab File: BF086113.D
 Acq: 6 Apr 2016 22:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.1	0.0	36.6
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.02 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

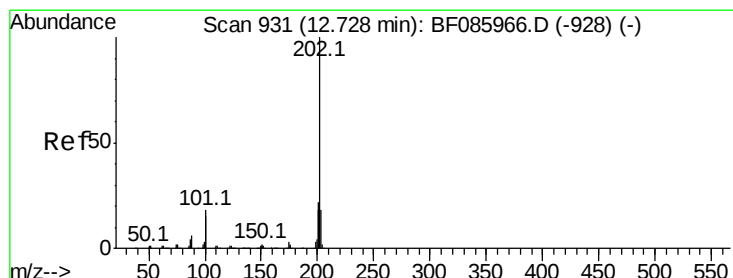
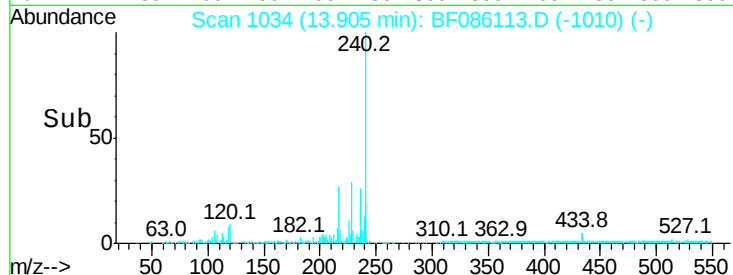
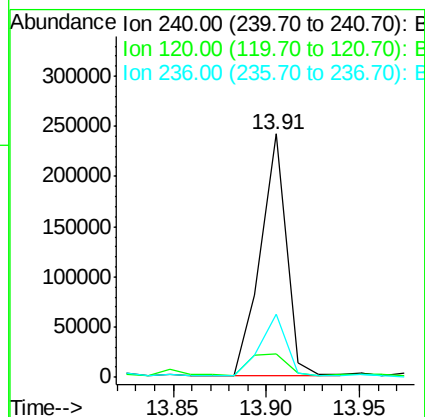
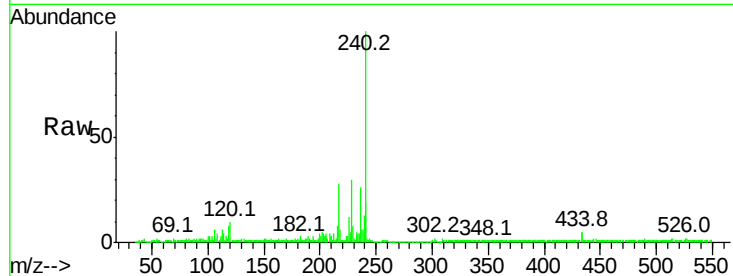
ClientSampleId :

SB03

Tot Ion:	240	Resp:	232344
Ion Ratio	Lower	Upper	
240	100		
120	9.8	13.8	20.8#
236	26.1	20.6	30.8

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#77

Pyrene

Concen: 46.85 ng

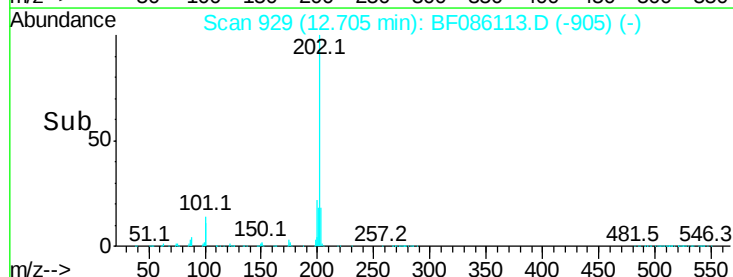
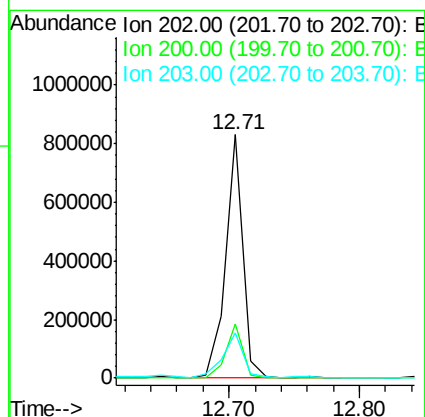
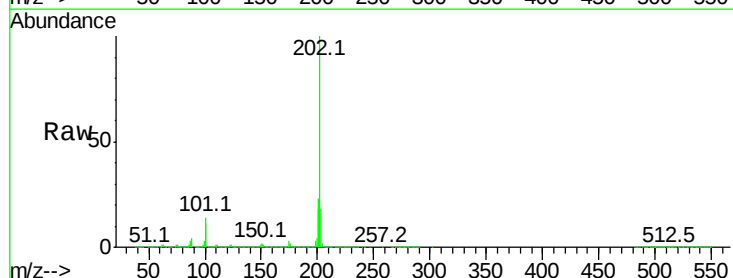
RT: 12.71 min Scan# 929

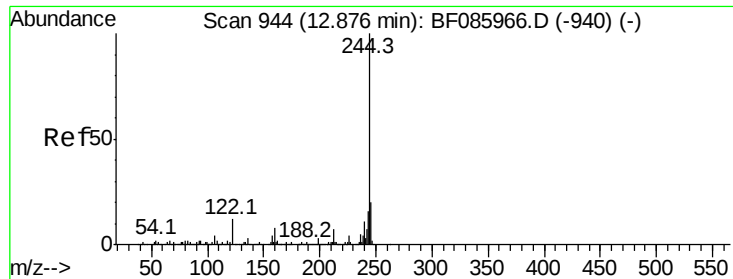
Delta R.T. -0.02 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Tgt Ion:	202	Resp:	767069
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.6	26.4
203	18.4	14.0	21.0





#78

Terphenyl-d14

Concen: 64.35 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

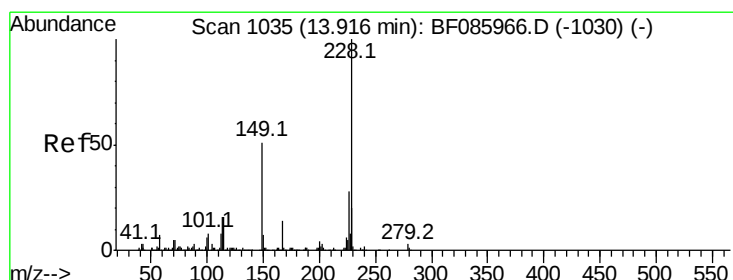
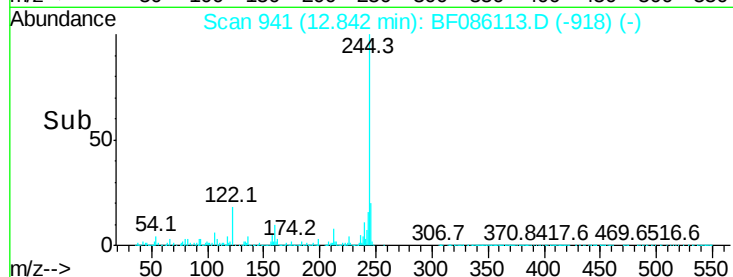
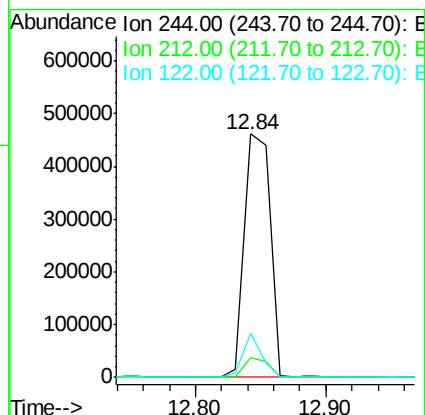
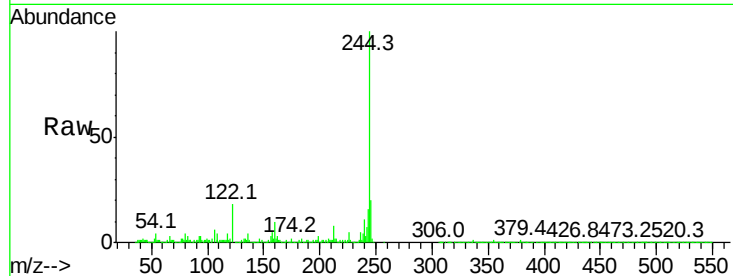
ClientSampleId :

SB03

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.1	9.1
122	18.3	10.2	15.4

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#80

Benzo(a)anthracene

Concen: 34.91 ng

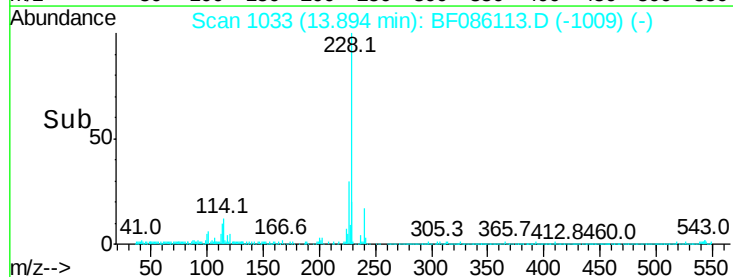
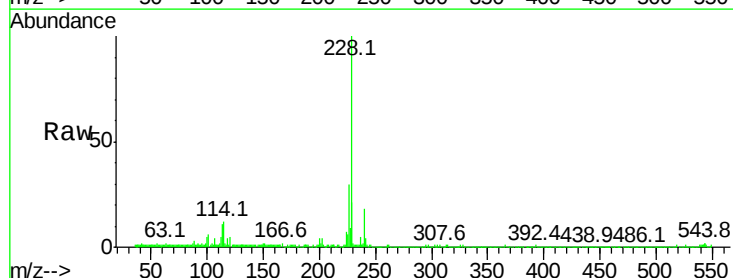
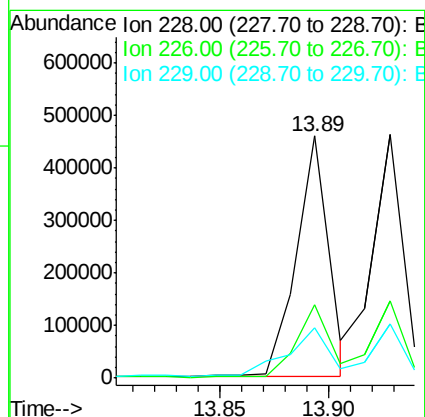
RT: 13.89 min Scan# 1033

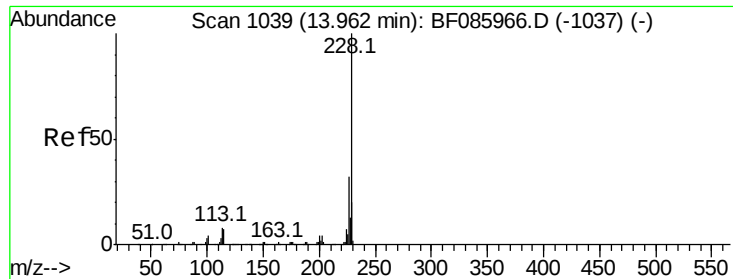
Delta R.T. -0.02 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.1	33.1
229	20.8	16.2	24.4





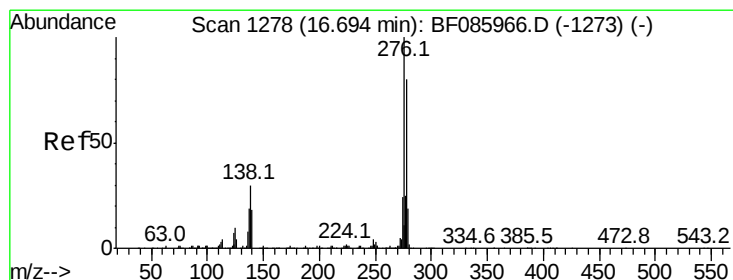
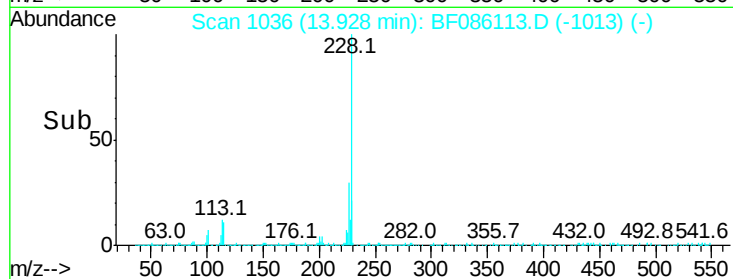
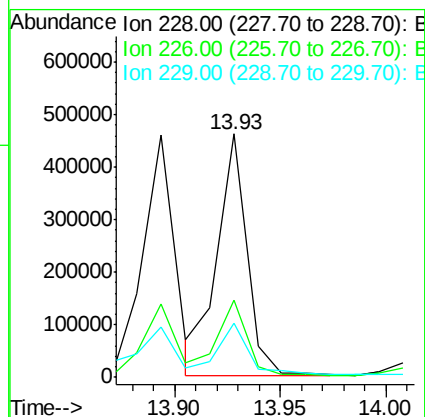
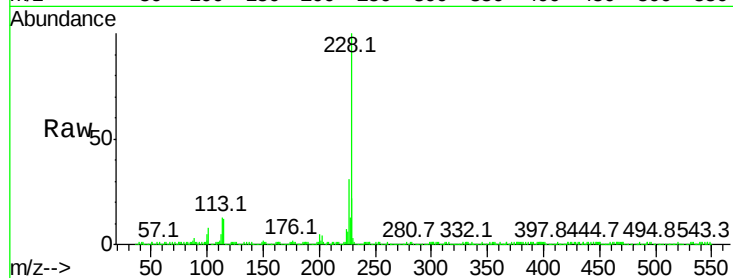
#82
Chrysene
Concen: 34.55 ng/ml
RT: 13.93 min Scan# 1036
Delta R.T. -0.03 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Instrument :
BNA_F
ClientSampleID :
SB03

Tot Ion:	228	Resp:	455852
Ion Ratio	Lower	Upper	
228	100		
226	31.5	25.0	37.6
229	22.2	15.7	23.5

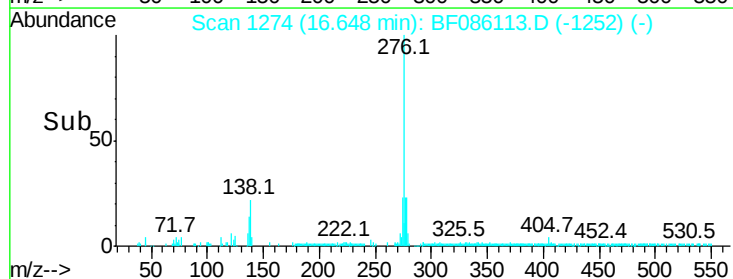
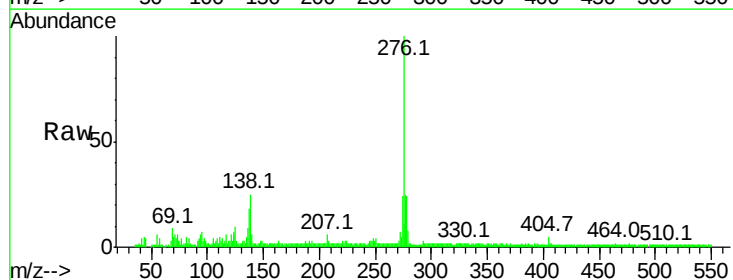
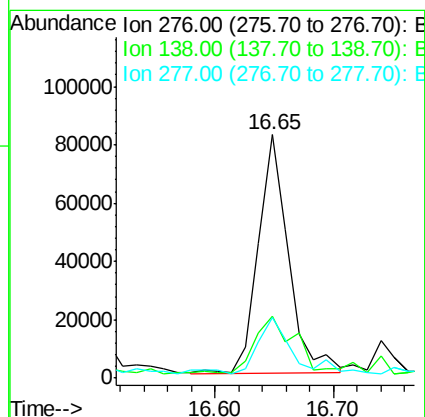
Manual Integrations
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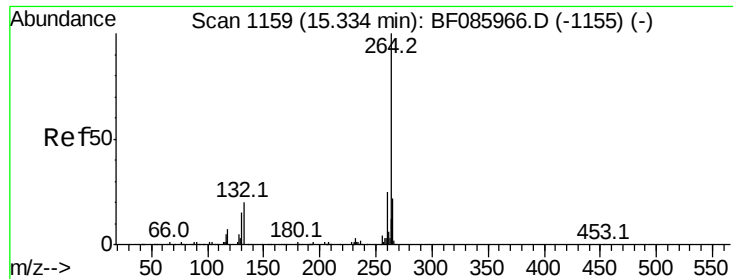
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#85
Indeno(1,2,3-cd)pyrene
Concen: 13.66 ng/ml
RT: 16.65 min Scan# 1274
Delta R.T. -0.05 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Tgt Ion:	276	Resp:	146190
Ion Ratio	Lower	Upper	
276	100		
138	30.2	24.2	36.4
277	27.1	20.0	30.0





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.30 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Instrument :

BNA_F

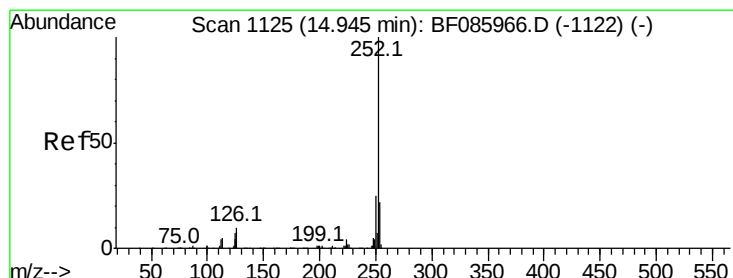
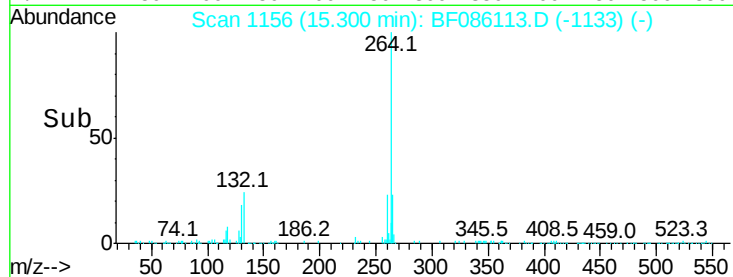
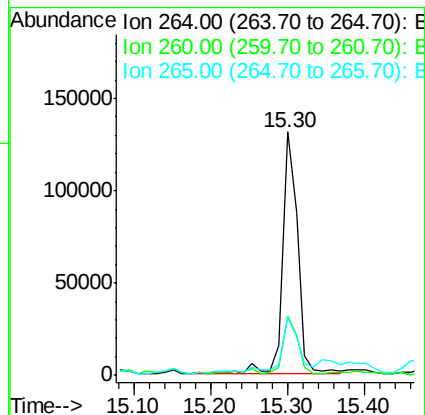
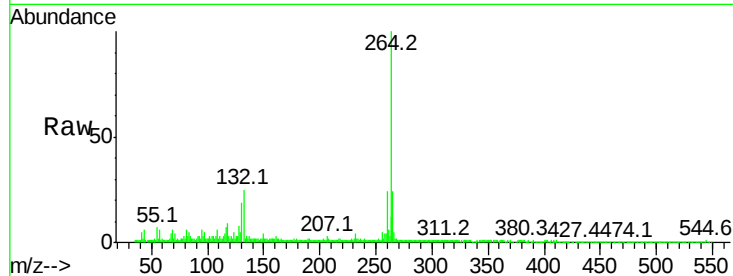
ClientSampleId :

SB03

Tot Ion:	264	Resp:	178980
Ion Ratio		Lower	Upper
264	100		
260	24.4	19.4	29.2
265	23.8	17.2	25.8

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 40.05 ng m

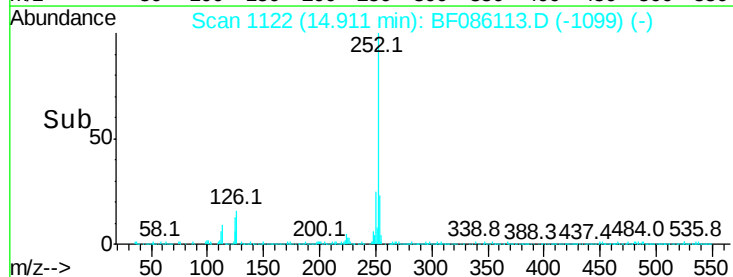
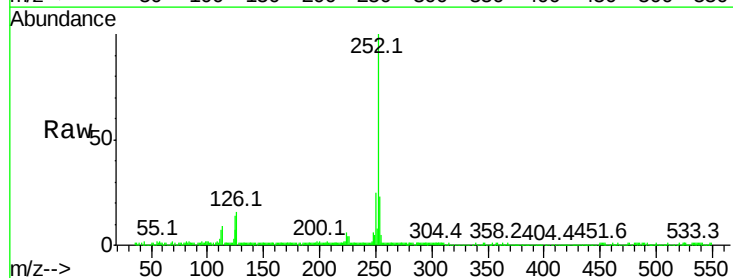
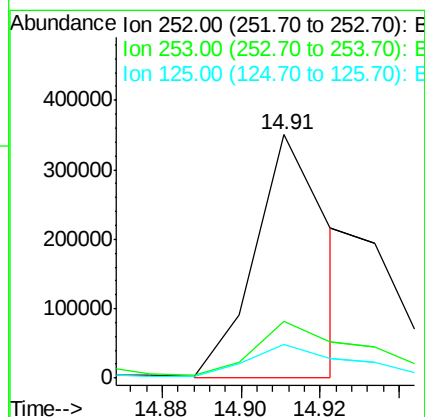
RT: 14.91 min Scan# 1122

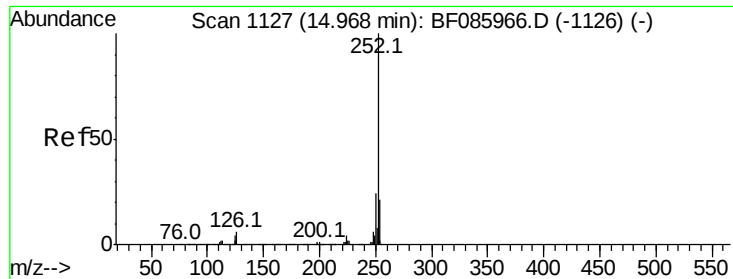
Delta R.T. -0.03 min

Lab File: BF086113.D

Acq: 6 Apr 2016 22:27

Tgt Ion:	252	Resp:	450867
Ion Ratio		Lower	Upper
252	100		
253	23.3	17.6	26.4
125	13.8	10.3	15.5





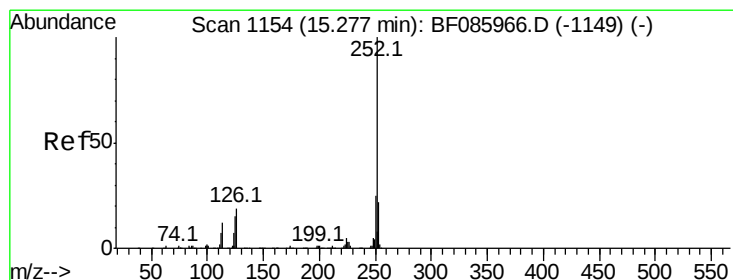
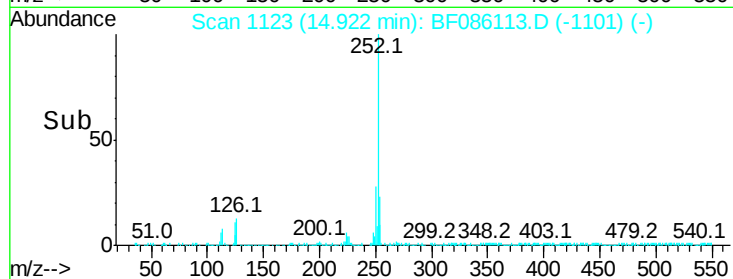
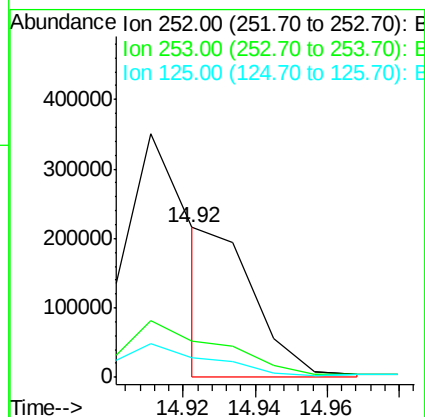
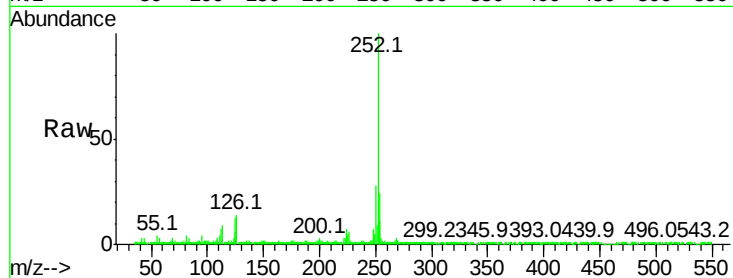
#88
Benzo(k)fluoranthene
Concen: 18.13 ng m
RT: 14.92 min Scan# 1123
Delta R.T. -0.05 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Instrument :
BNA_F
ClientSampleId :
SB03

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	12.9	7.7	11.5#

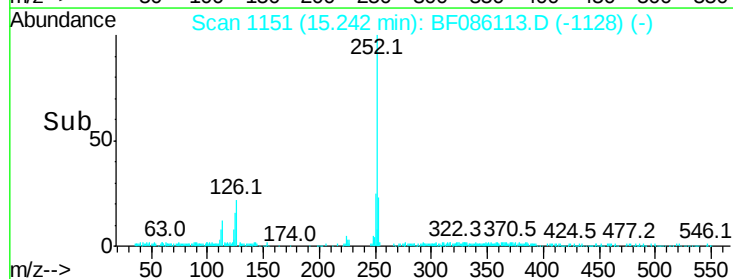
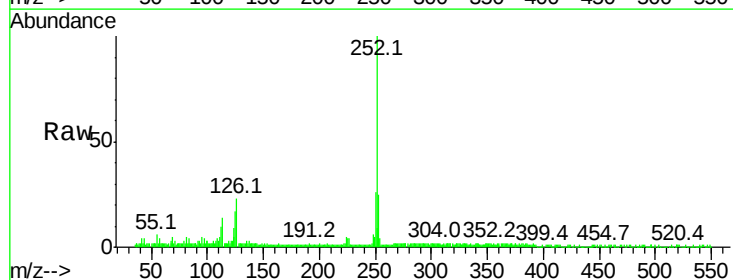
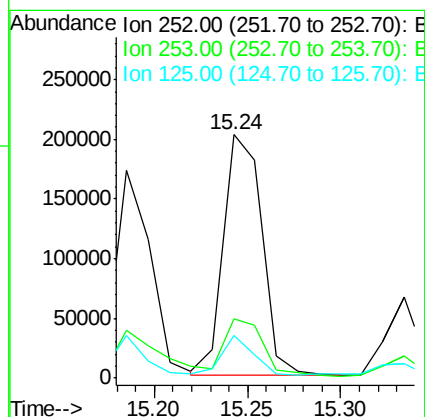
Manual Integrations
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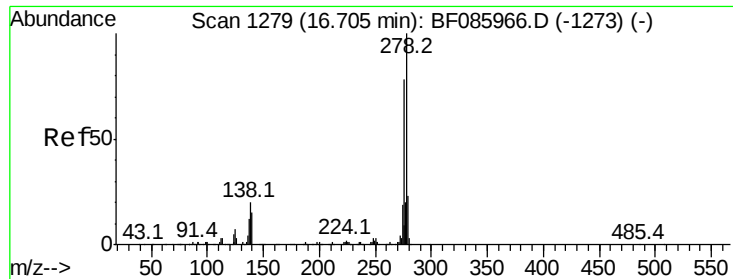
Sohil
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#89
Benzo(a)pyrene
Concen: 28.92 ng
RT: 15.24 min Scan# 1151
Delta R.T. -0.03 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.4	26.0
125	17.3	10.3	15.5#





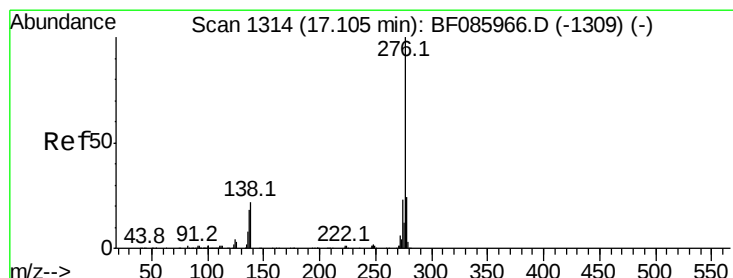
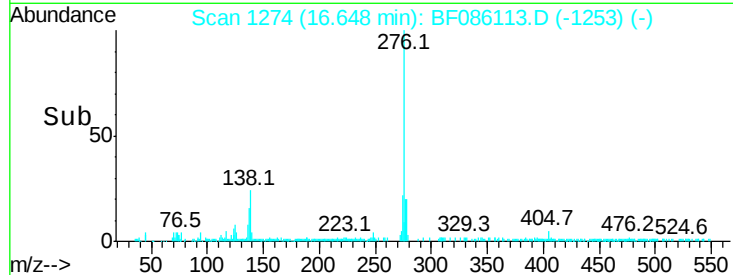
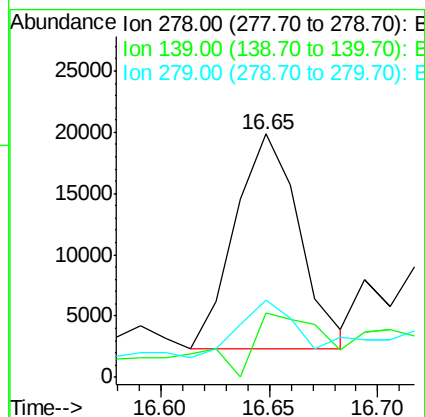
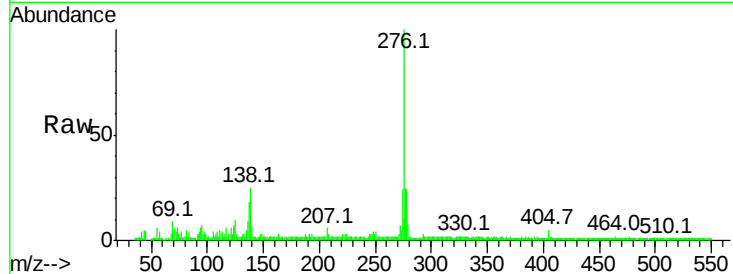
#90
Dibenzo(a,h)anthracene
Concen: 4.50 ng
RT: 16.65 min Scan# 1274
Delta R.T. -0.06 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Instrument :
BNA_F
ClientSampled :
SB03

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.7	14.4	21.6#
279	31.7	19.1	28.7#

Manual Integrations
APPROVED

Sohil
4/7/2016 5:59:03 PM



#91
Benzo(g,h,i)perylene
Concen: 17.60 ng
RT: 17.06 min Scan# 1310
Delta R.T. -0.05 min
Lab File: BF086113.D
Acq: 6 Apr 2016 22:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.5	18.8	28.2
138	26.2	22.6	34.0

