

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
 Data File : BF085768.D
 Acq On : 25 Mar 2016 18:21
 Operator : UM/SJ
 Sample : H1855-04 10X
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2

Manual Integrations
 APPROVED

Sohil
 3/28/2016 7:56:16 PM

Quant Time: Mar 28 10:43:39 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 24 14:15:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	108346	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	411608	20.00	ng	-0.01
38) Acenaphthene-d10	9.86	164	196770	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	305765	20.00	ng	0.00
75) Chrysene-d12	13.99	240	194308	20.00	ng	0.01
86) Perylene-d12	15.41	264	198272	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	4053	0.62	ng	0.02
7) Phenol-d6	6.47	99	6357	0.77	ng	0.01
23) Nitrobenzene-d5	7.40	82	2701	0.37	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	833	0.45	ng	0.00
44) 2-Fluorobiphenyl	9.19	172	6325	0.54	ng	0.00
78) Terphenyl-d14	12.93	244	5752	0.61	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.13	128	54911	2.65	ng	99
48) Acenaphthylene	9.73	152	76549	3.85	ng	100
51) Acenaphthene	9.90	154	83935	6.91	ng	98
54) Dibenzofuran	10.07	168	45981	2.92	ng	97
57) Fluorene	10.41	166	97625	7.47	ng	100
70) Phenanthrene	11.37	178	1229738	78.33	ng	99
71) Anthracene	11.42	178	303083	18.39	ng	99
72) Carbazole	11.58	167	160057	11.57	ng	98
74) Fluoranthene	12.56	202	2055789	123.19	ng	96
77) Pyrene	12.79	202	1720808	107.74	ng	98
80) Benzo(a)anthracene	13.98	228	782918	70.66	ng	95
82) Chrysene	14.01	228	737144	66.05	ng	97
85) Indeno(1,2,3-cd)pyrene	16.80	276	381400	44.26	ng	94
87) Benzo(b)fluoranthene	15.01	252	902902m	72.29	ng	
88) Benzo(k)fluoranthene	15.03	252	340733m	30.26	ng	
89) Benzo(a)pyrene	15.35	252	628153	56.64	ng	97
90) Dibenzo(a,h)anthracene	16.80	278	100353	9.74	ng	95
91) Benzo(g,h,i)perylene	17.21	276	340248	32.61	ng	97

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

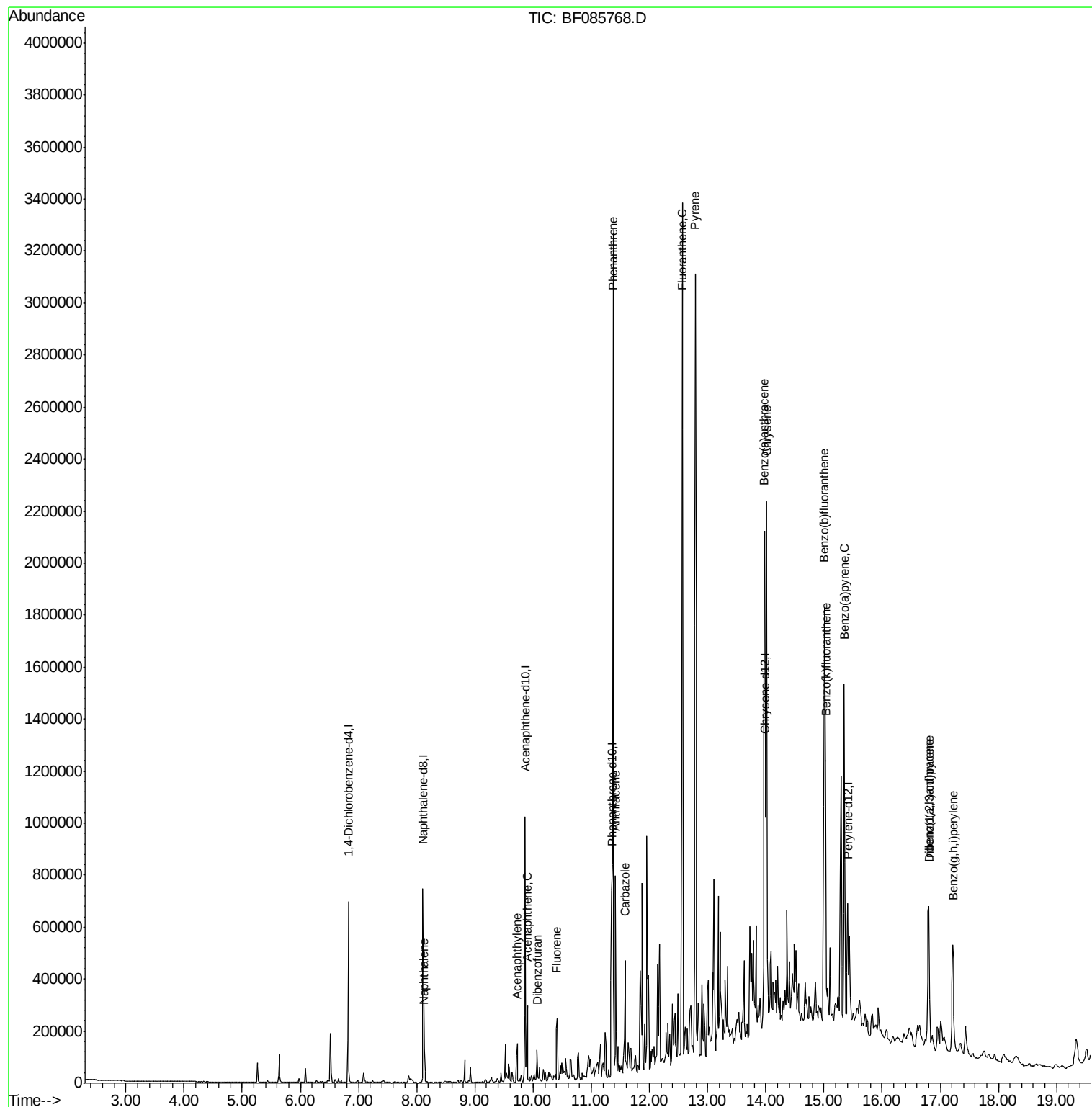
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
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#1

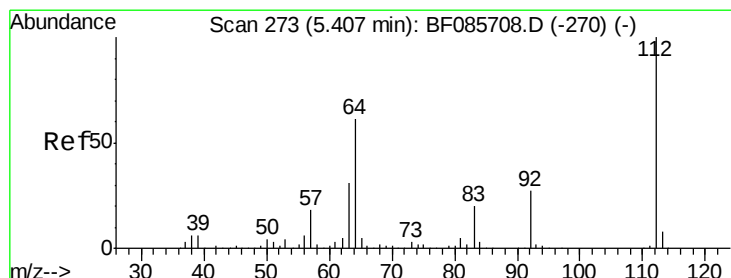
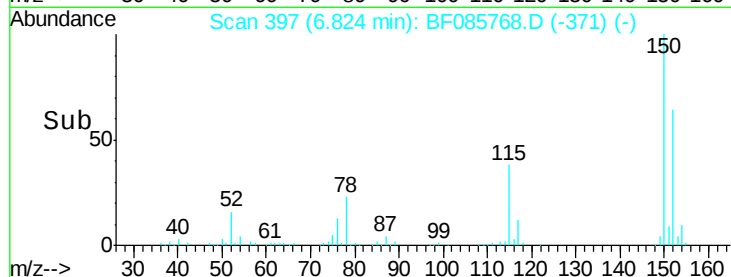
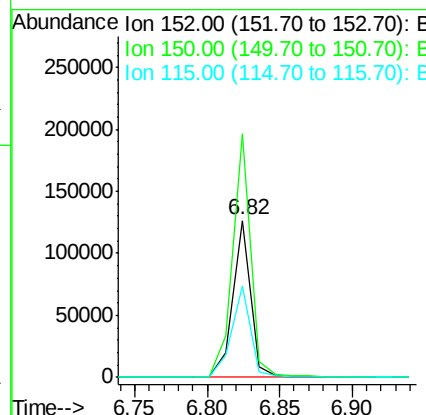
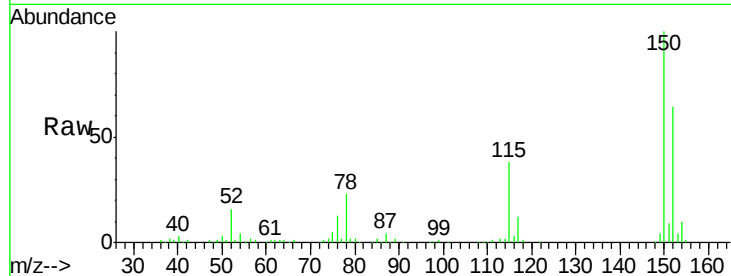
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 397
Delta R.T. -0.00 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Instrument :
BNA_F
ClientSampleId :
SB-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.2	186.2
115	58.5	47.0	70.6

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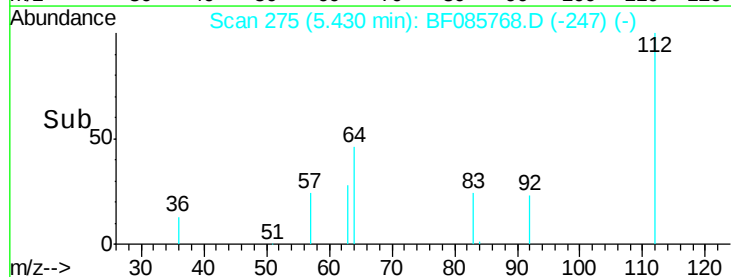
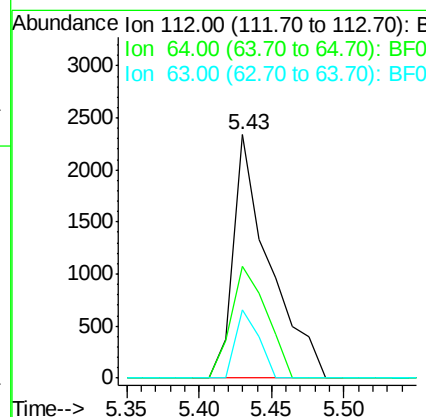
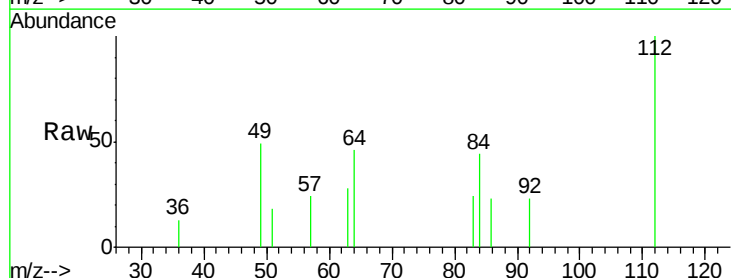
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#5

2-Fluorophenol
Concen: 0.62 ng
RT: 5.43 min Scan# 275
Delta R.T. 0.02 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	45.7	39.9	59.9
63	27.9	20.2	30.2





#7

Phenol-d6

Concen: 0.77 ng

RT: 6.47 min Scan# 366

Delta R.T. 0.01 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

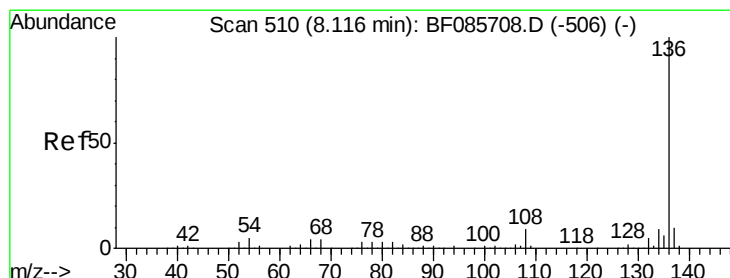
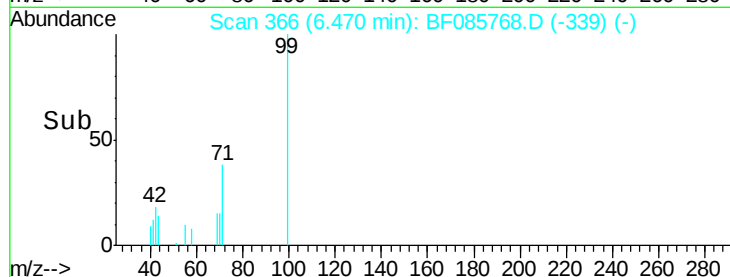
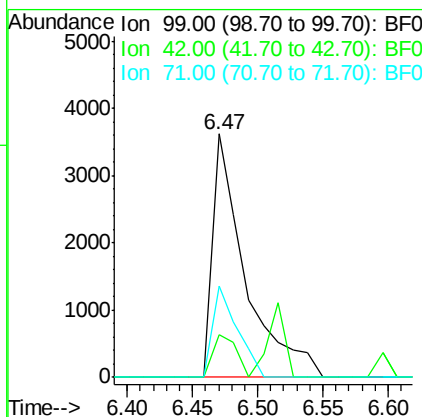
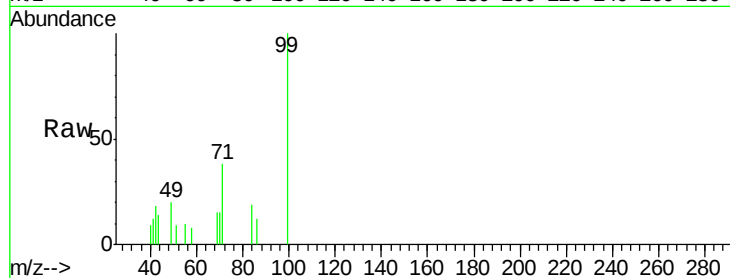
ClientSampleId :

SB-2

Tot Ion:	99	Resp:	6357
Ion Ratio	Lower	Upper	
99	100		
42	17.7	11.1	16.7#
71	37.6	24.9	37.3#

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#21

Naphthalene-d8

Concen: 20.00 ng

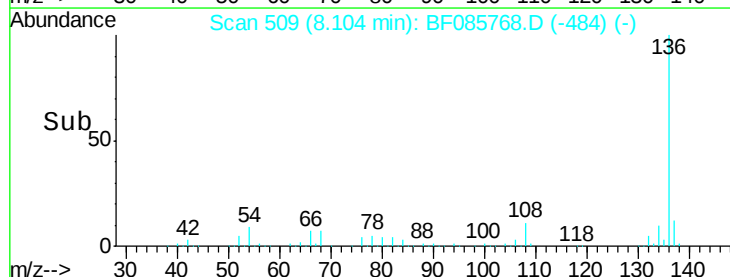
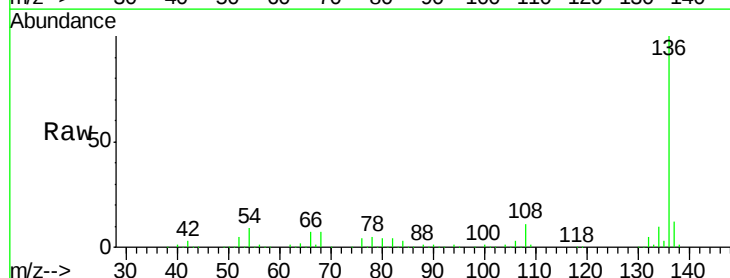
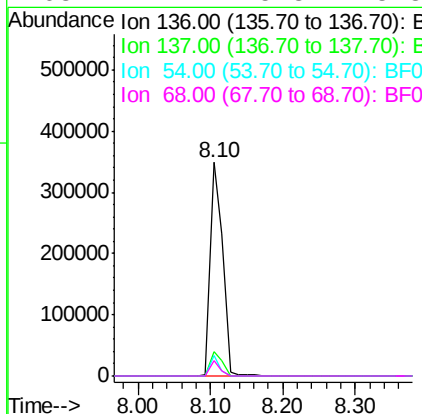
RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Tgt Ion:	136	Resp:	411608
Ion Ratio	Lower	Upper	
136	100		
137	11.7	9.1	13.7
54	9.4	7.4	11.0
68	7.4	5.8	8.8





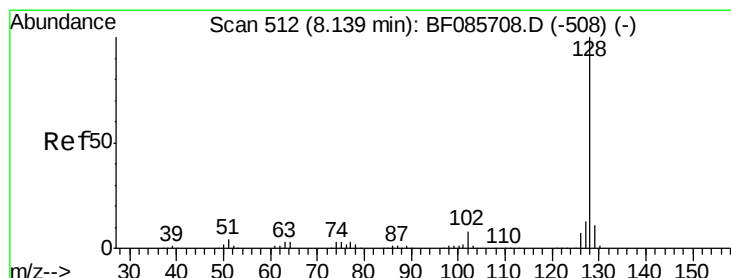
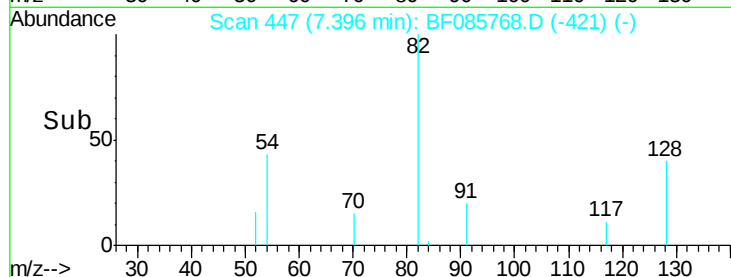
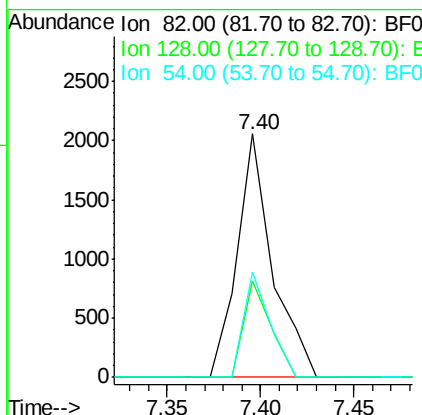
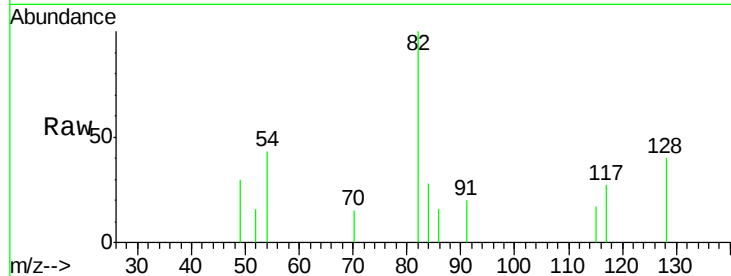
#23
Nitrobenzene-d5
Concen: 0.37 ng
RT: 7.40 min Scan# 447
Delta R.T. -0.00 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Instrument :
BNA_F
ClientSampleId :
SB-2

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.8	41.8	62.8#
54	43.4	33.4	50.0

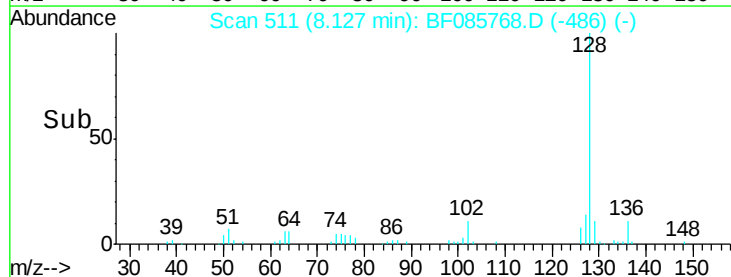
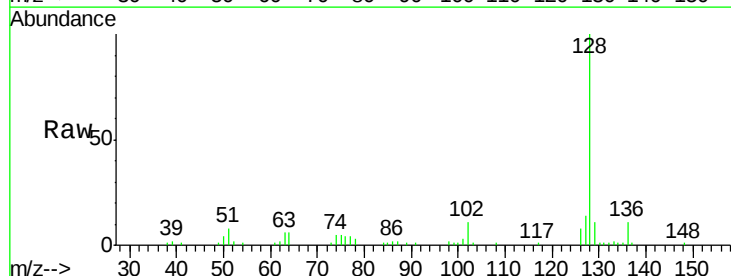
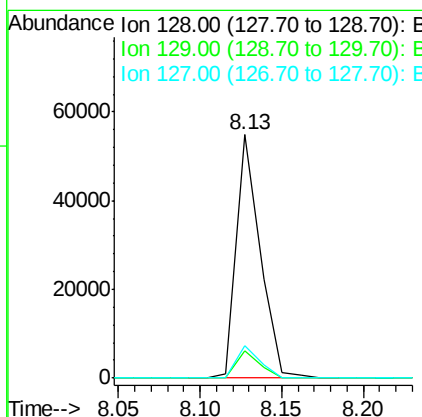
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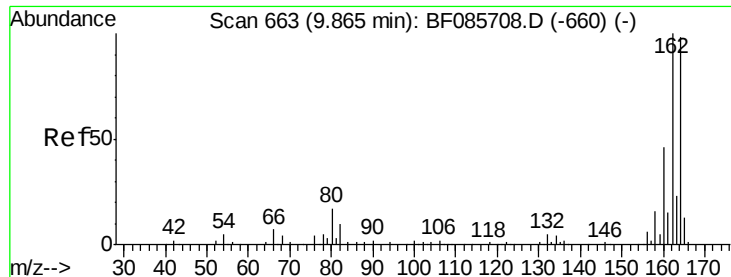
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#31
Naphthalene
Concen: 2.65 ng
RT: 8.13 min Scan# 511
Delta R.T. -0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.4	14.0
127	13.5	11.0	16.6





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.86 min Scan# 663

Delta R.T. -0.00 min

Lab File: BF085768.D

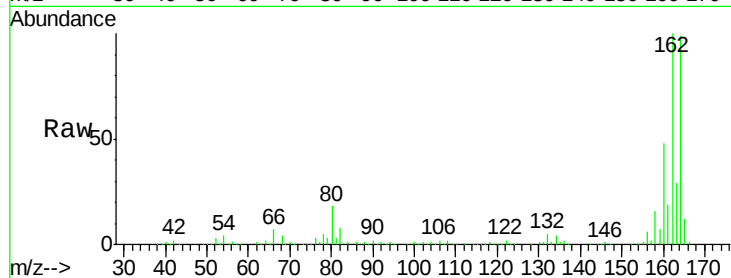
Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

ClientSampleId :

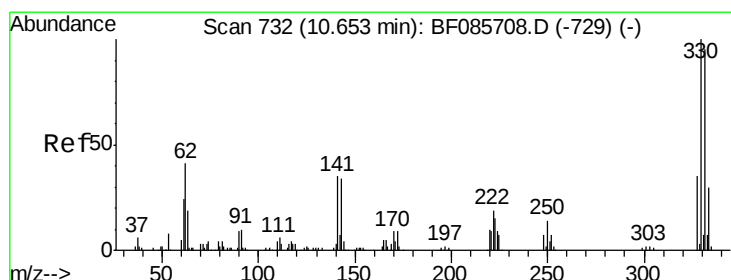
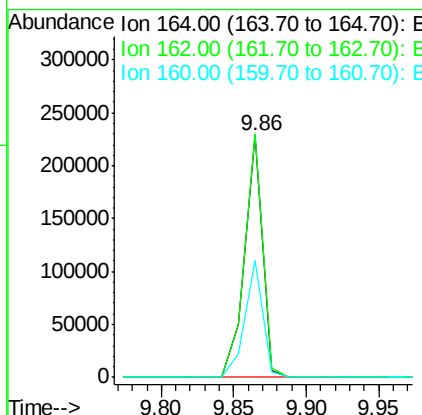
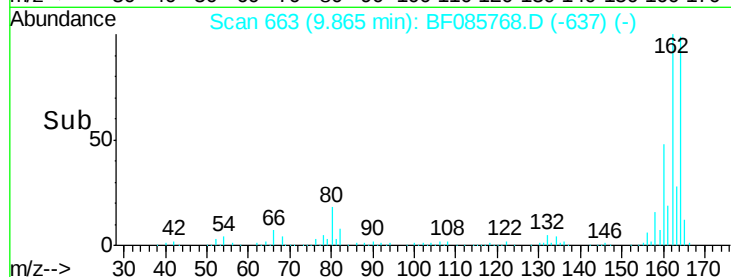
SB-2



Tot Ion	164	Resp	196770
Ion Ratio	Lower	Upper	
164	100		
162	100.5	82.1	123.1
160	48.2	37.4	56.2

Manual Integrations
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#41

2,4,6-Tribromophenol

Concen: 0.45 ng

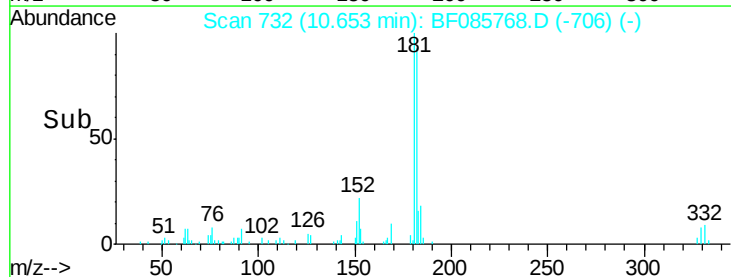
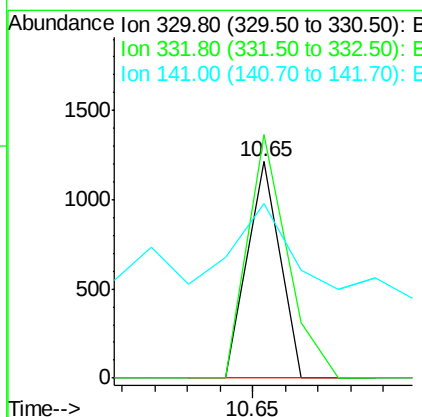
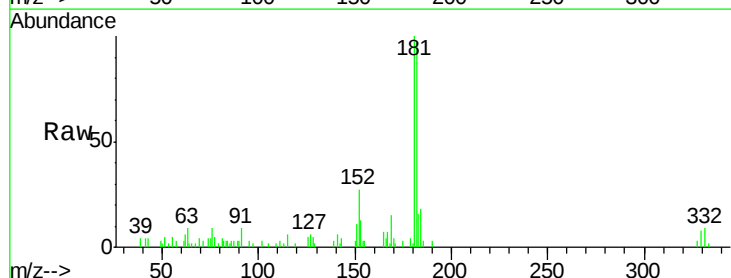
RT: 10.65 min Scan# 732

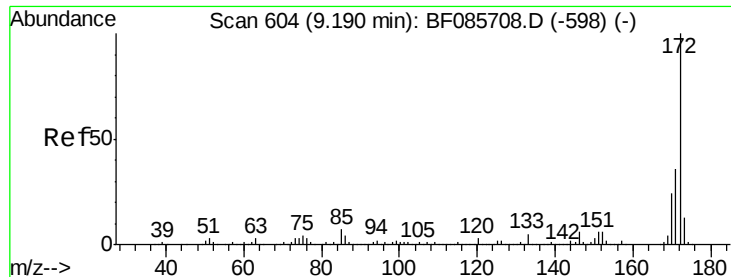
Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Tgt Ion	330	Resp	833
Ion Ratio	Lower	Upper	
330	100		
332	138.2	78.2	117.2#
141	525.1	31.5	47.3#





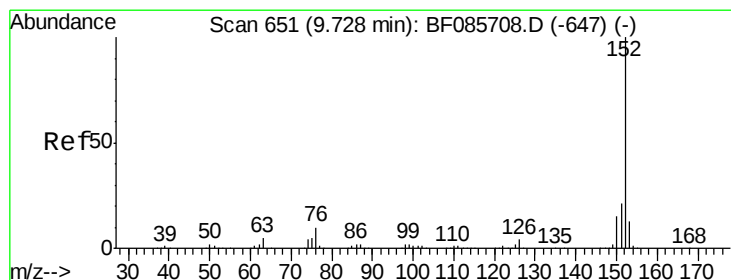
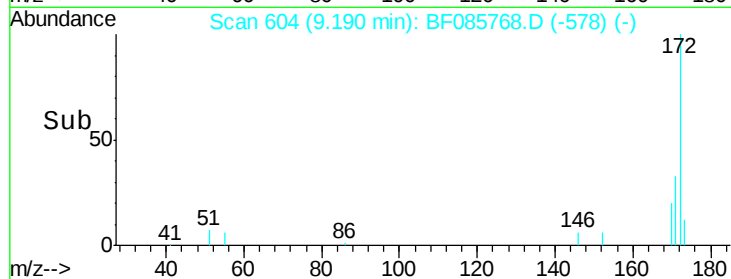
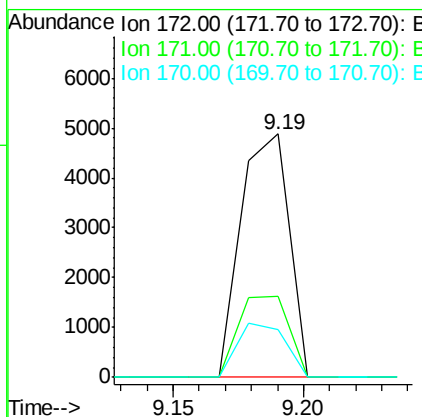
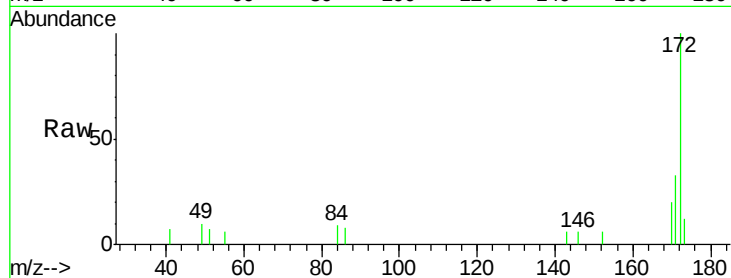
#44
2-Fluorobiphenyl
Concen: 0.54 ng
RT: 9.19 min Scan# 604
Delta R.T. -0.00 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Instrument :
BNA_F
ClientSampleId :
SB-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.5	29.4	44.2
170	19.7	19.8	29.6

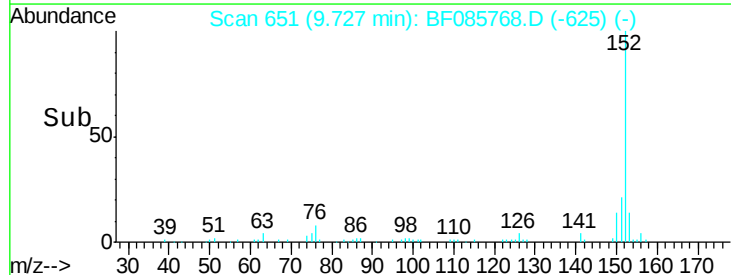
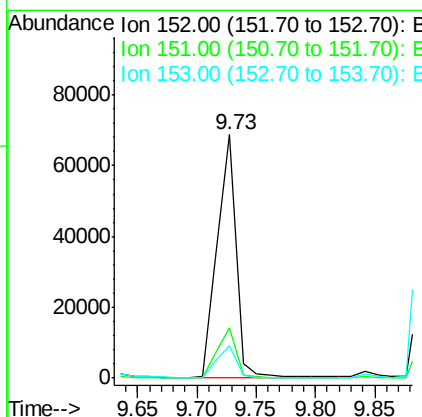
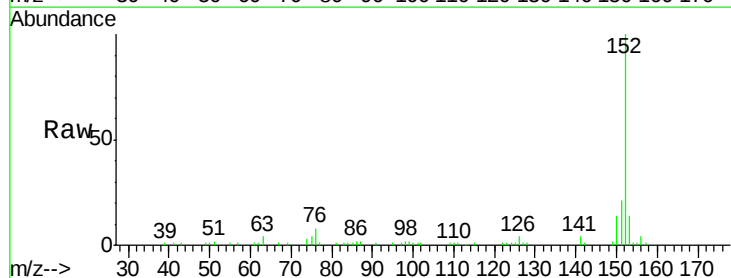
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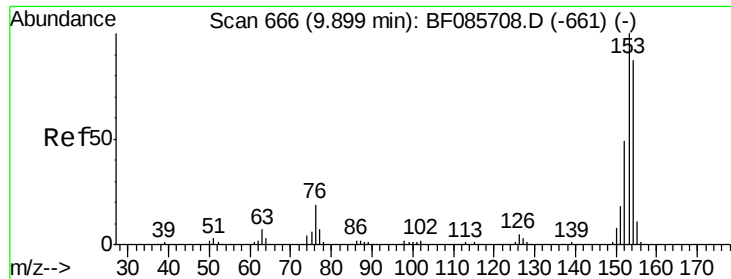
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#48
Acenaphthylene
Concen: 3.85 ng
RT: 9.73 min Scan# 651
Delta R.T. -0.00 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.8	25.2
153	13.5	10.9	16.3





#51

Acenaphthene

Concen: 6.91 ng

RT: 9.90 min Scan# 666

Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

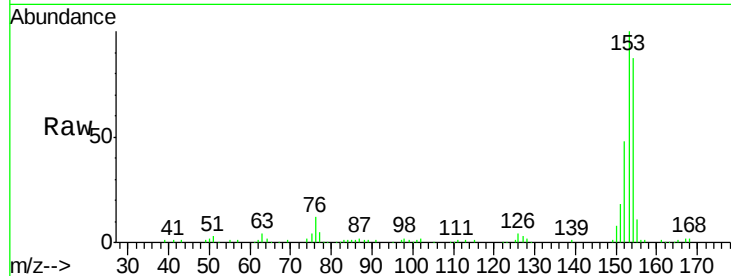
ClientSampled :

SB-2

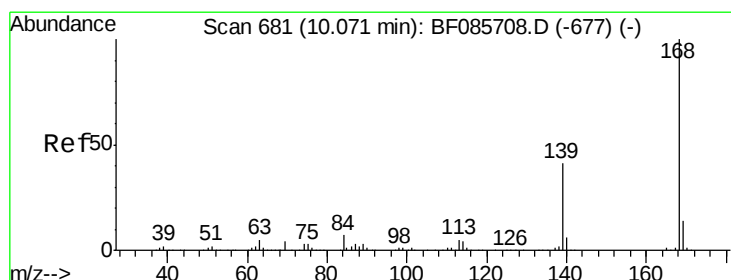
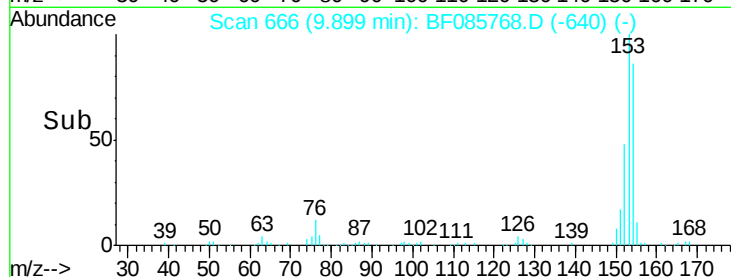
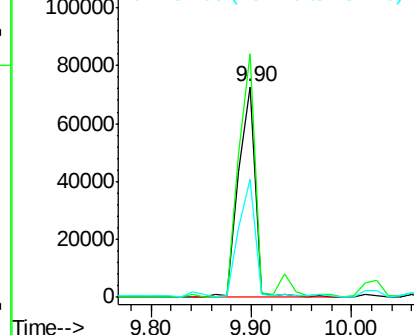
Tot Ion:	154	Resp:	83935
Ion Ratio	Lower	Upper	
154	100		
153	115.6	90.1	135.1
152	55.9	44.2	66.2

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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: 2.92 ng

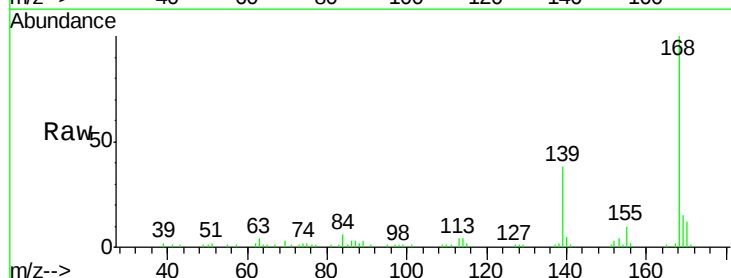
RT: 10.07 min Scan# 681

Delta R.T. -0.00 min

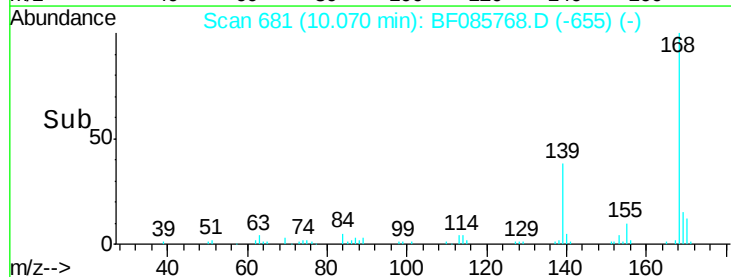
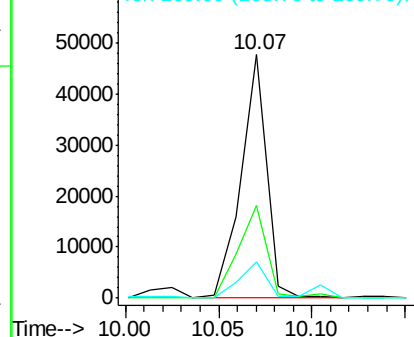
Lab File: BF085768.D

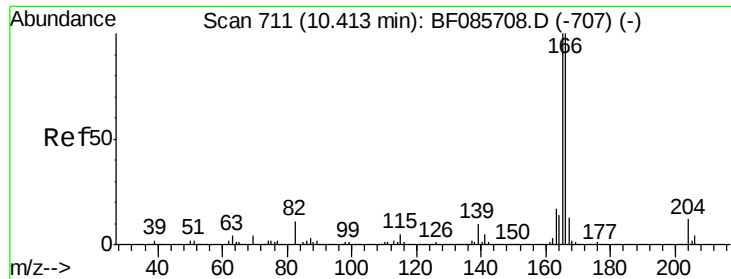
Acq: 25 Mar 2016 18:21

Tgt Ion:	168	Resp:	45981
Ion Ratio	Lower	Upper	
168	100		
139	37.9	31.9	47.9
169	14.7	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: 7.47 ng

RT: 10.41 min Scan# 711

Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

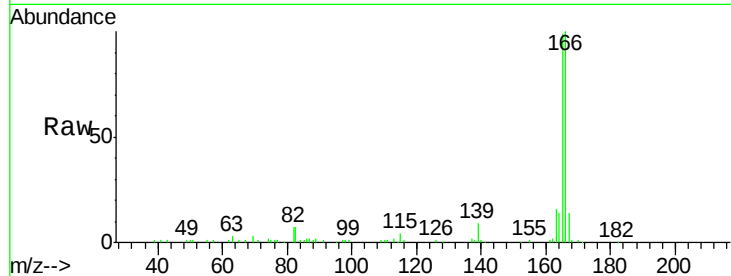
ClientSampled :

SB-2

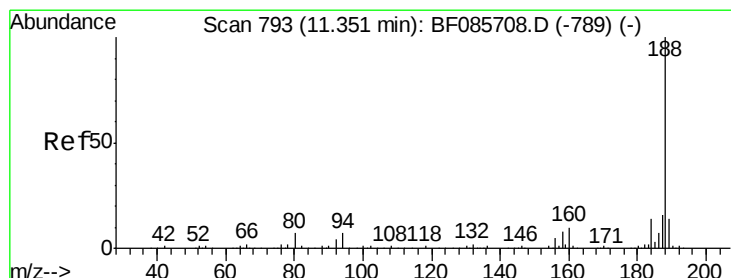
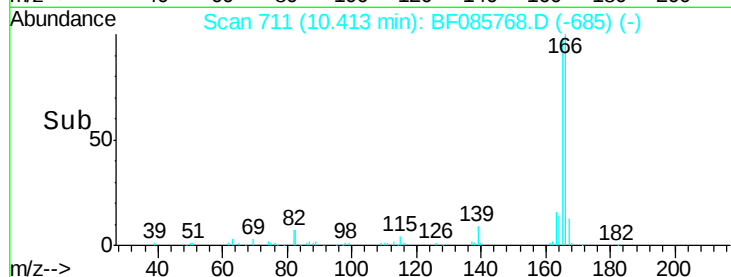
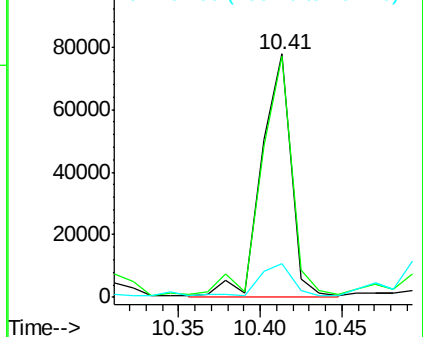
Tot Ion:	166	Resp:	97625
Ion Ratio	Lower	Upper	
166	100		
165	98.9	79.4	119.0
167	13.7	11.0	16.4

Manual Integrations
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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

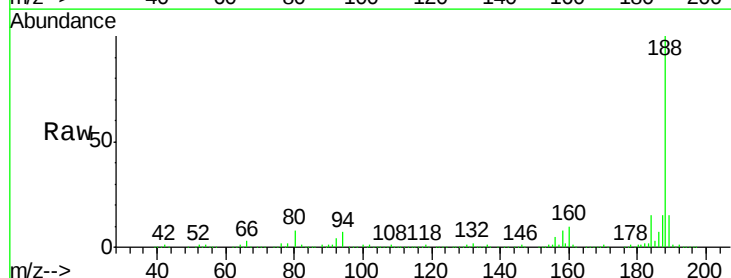
RT: 11.35 min Scan# 793

Delta R.T. -0.00 min

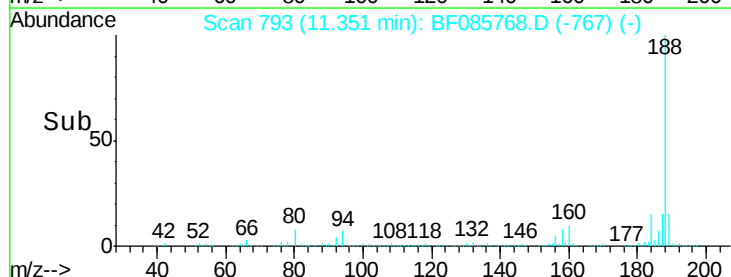
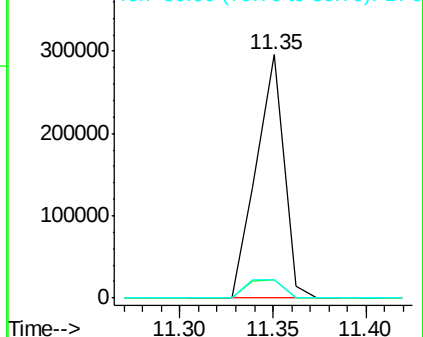
Lab File: BF085768.D

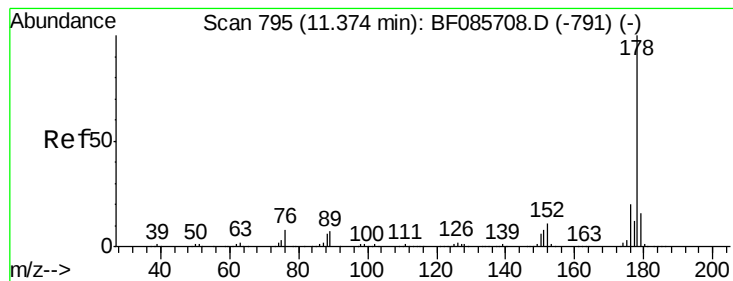
Acq: 25 Mar 2016 18:21

Tgt Ion:	188	Resp:	305765
Ion Ratio	Lower	Upper	
188	100		
94	7.3	5.4	8.0
80	7.6	5.5	8.3



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: 78.33 ng

RT: 11.37 min Scan# 795

Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

ClientSampleId :

SB-2

Tot Ion:178 Resp: 1229738

Ion Ratio Lower Upper

178 100

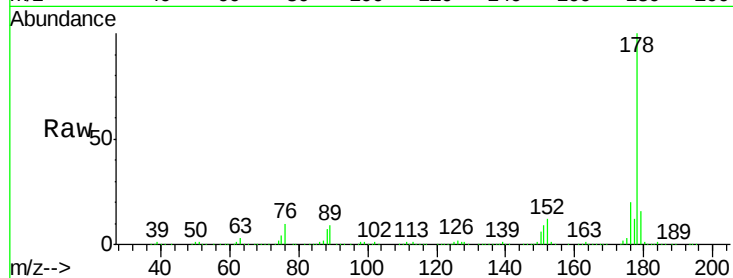
176 20.4 16.3 24.5

179 16.2 12.6 18.8

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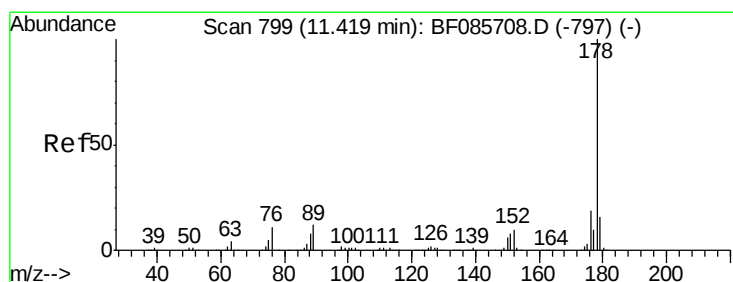
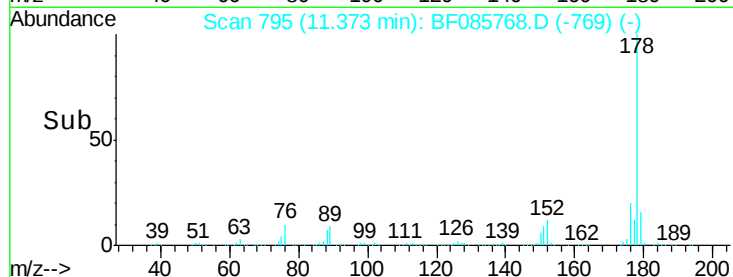
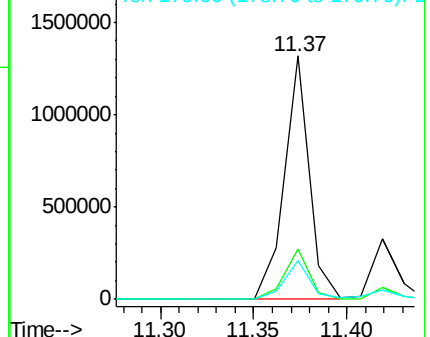
3/28/2016 7:56:16 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 18.39 ng

RT: 11.42 min Scan# 799

Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Tgt Ion:178 Resp: 303083

Ion Ratio Lower Upper

178 100

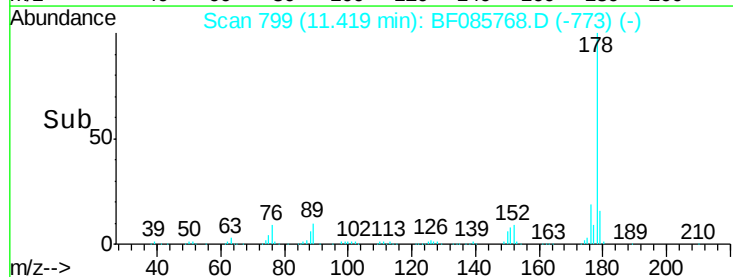
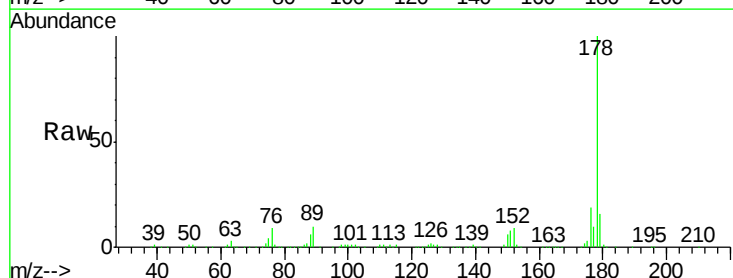
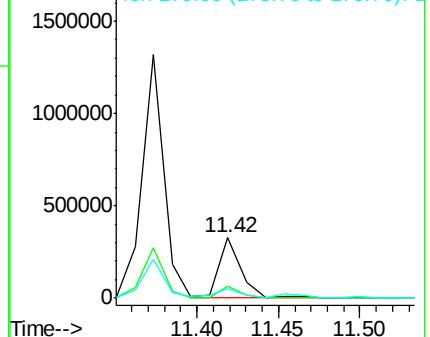
176 19.1 15.9 23.9

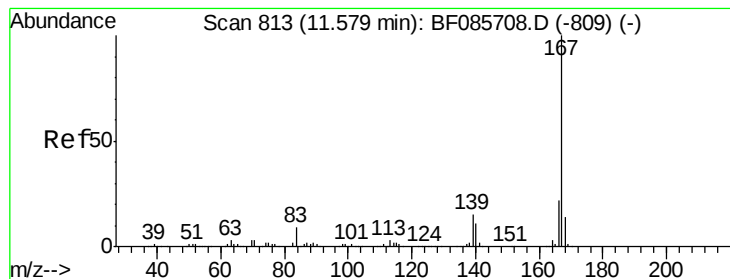
179 15.8 13.0 19.4

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: 11.57 ng

RT: 11.58 min Scan# 813

Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

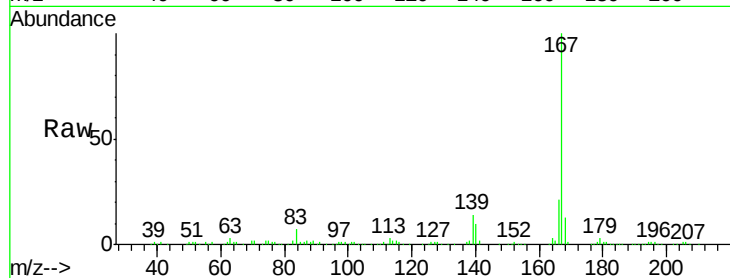
ClientSampled :

SB-2

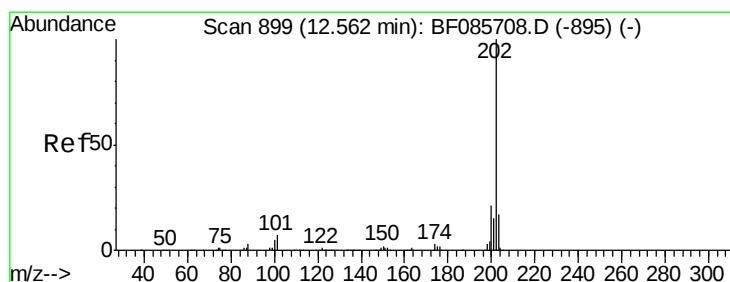
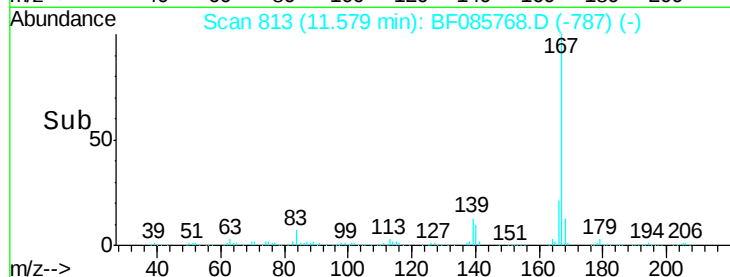
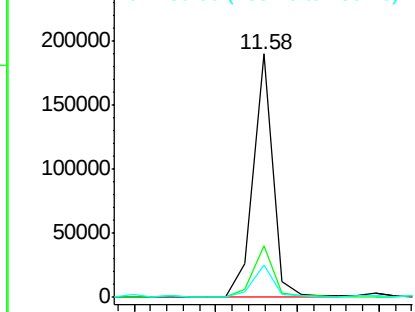
Tot Ion:	167	Resp:	160057
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.8	26.8
139	13.6	11.6	17.4

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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: 123.19 ng

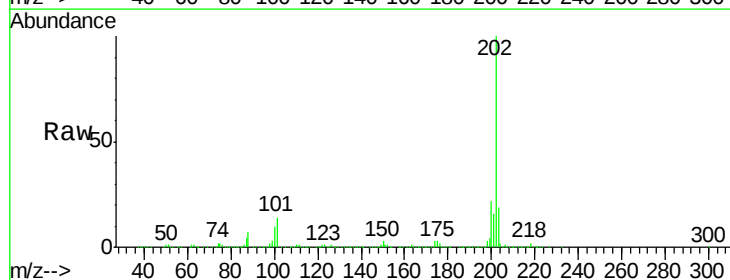
RT: 12.56 min Scan# 899

Delta R.T. -0.00 min

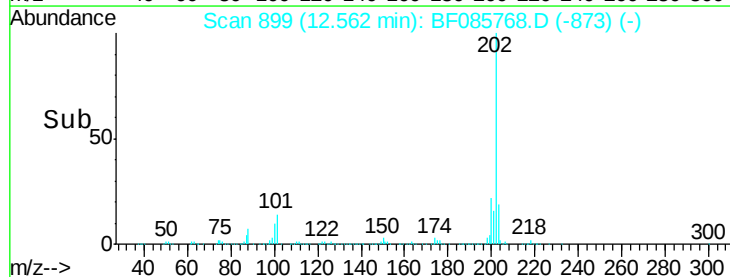
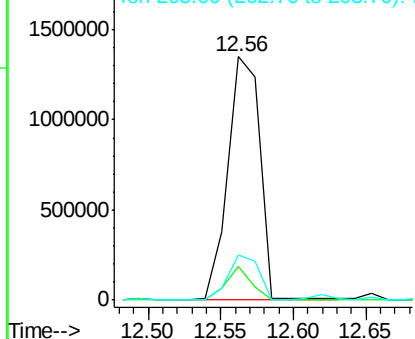
Lab File: BF085768.D

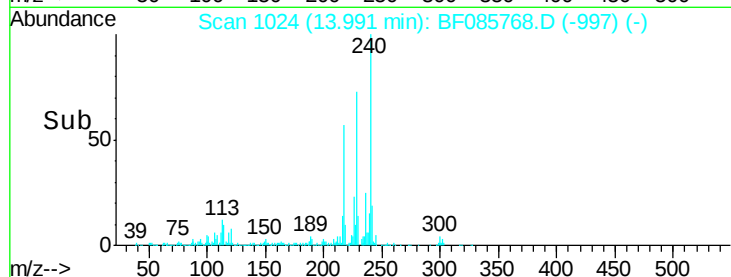
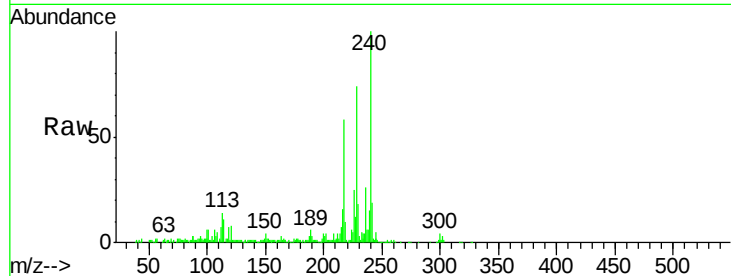
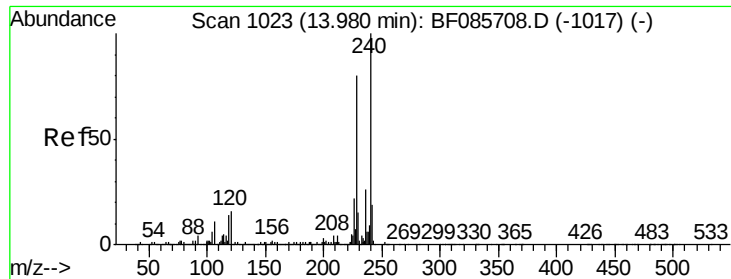
Acq: 25 Mar 2016 18:21

Tgt Ion:	202	Resp:	2055789
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	36.6
203	18.8	0.0	38.1



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





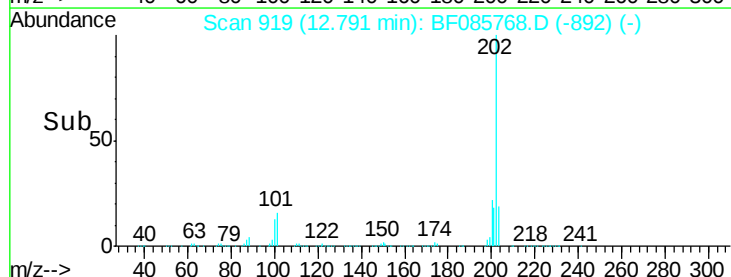
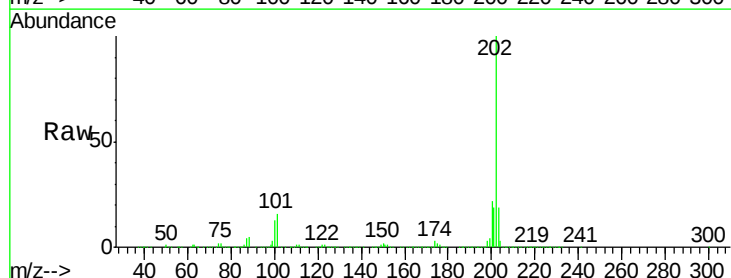
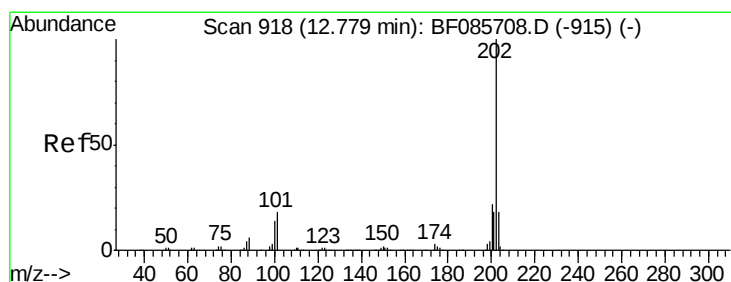
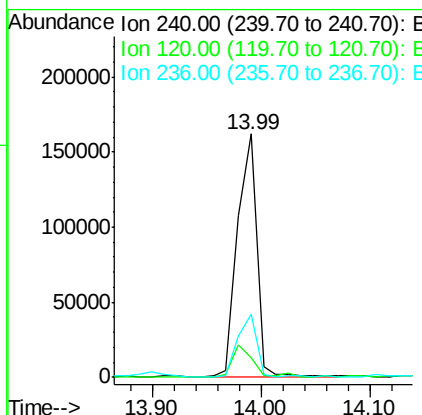
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.99 min Scan# 1024
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Instrument :
BNA_F
ClientSampleId :
SB-2

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.2	13.8	20.8#
236	26.0	20.6	30.8

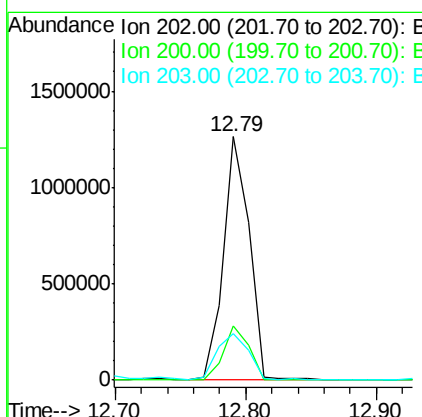
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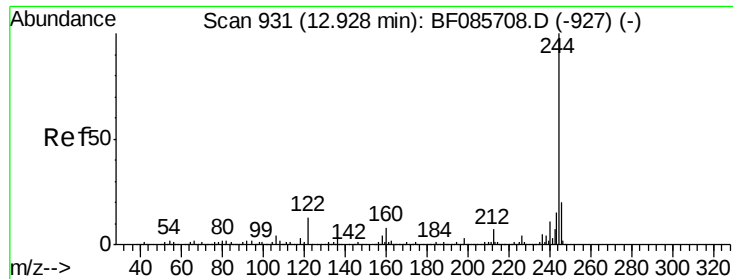
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#77
Pyrene
Concen: 107.74 ng
RT: 12.79 min Scan# 919
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.6	26.4
203	19.3	14.0	21.0





#78

Terphenyl-d14

Concen: 0.61 ng

RT: 12.93 min Scan# 931

Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

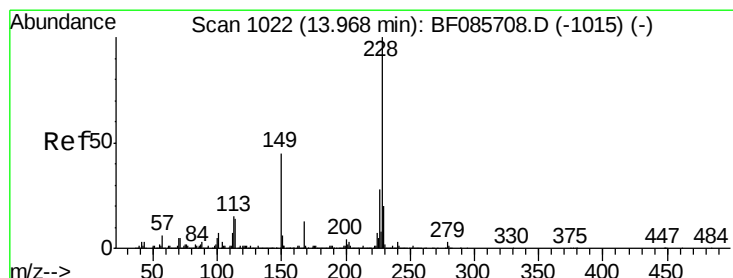
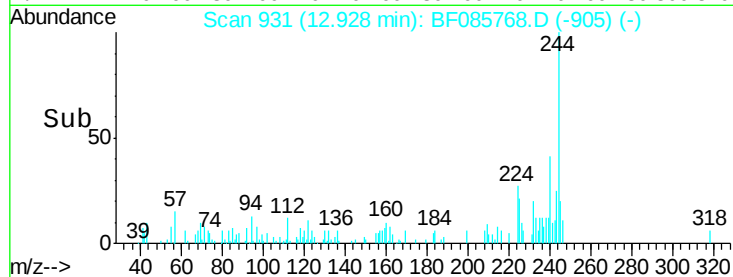
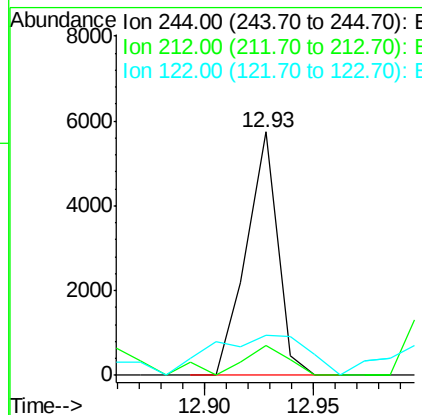
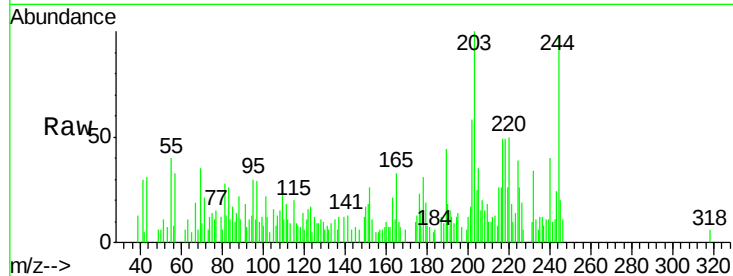
ClientSampled :

SB-2

Tot Ion	Ratio	Lower	Upper
244	100		
212	12.0	6.1	9.1#
122	16.6	10.2	15.4#

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#80

Benzo(a)anthracene

Concen: 70.66 ng

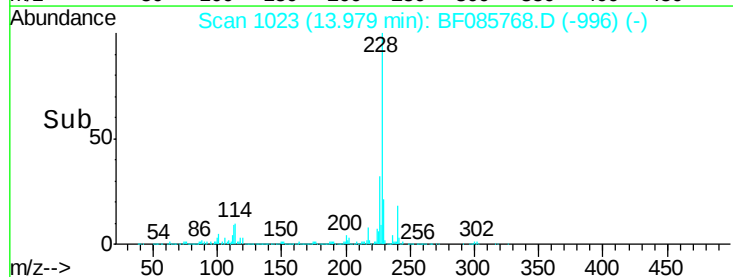
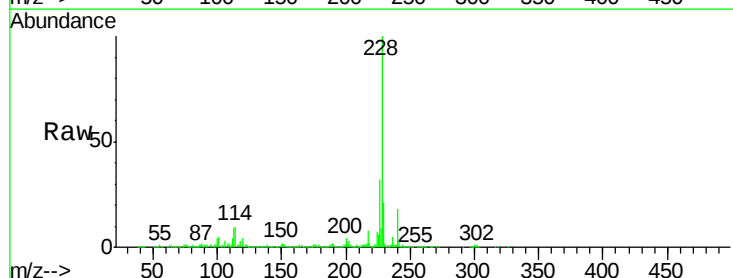
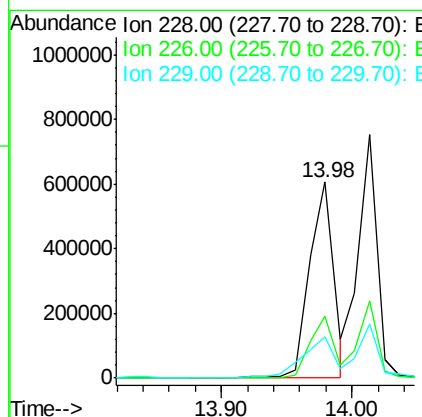
RT: 13.98 min Scan# 1023

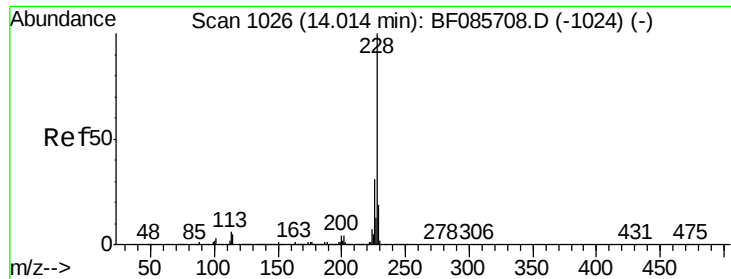
Delta R.T. 0.01 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.1	33.1
229	21.1	16.2	24.4





#82

Chrysene

Concen: 66.05 ng

RT: 14.01 min Scan# 1026

Delta R.T. -0.00 min

Lab File: BF085768.D

Acq: 25 Mar 2016 18:21

Instrument :

BNA_F

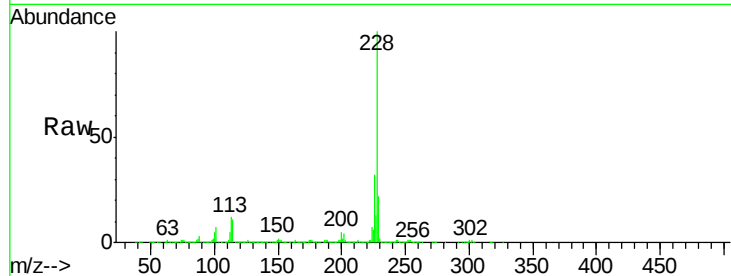
ClientSampled :

SB-2

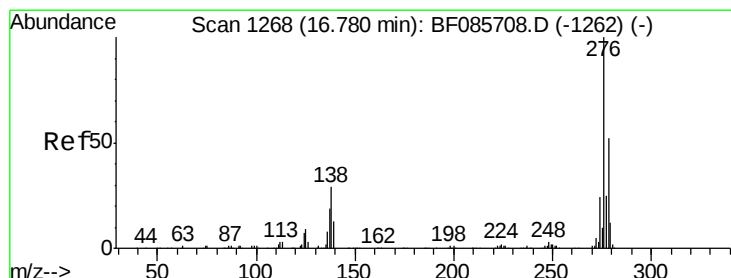
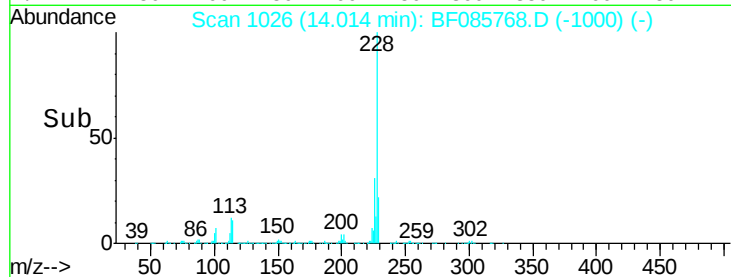
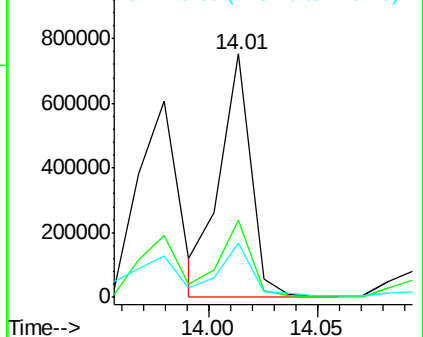
Tot Ion:	228	Resp:	737144
Ion Ratio	Lower	Upper	
228	100		
226	31.8	25.0	37.6
229	22.4	15.7	23.5

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 44.26 ng

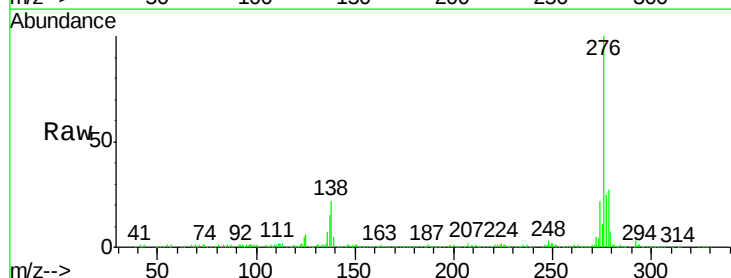
RT: 16.80 min Scan# 1270

Delta R.T. 0.02 min

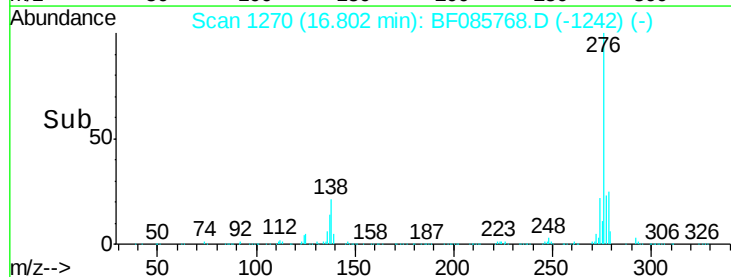
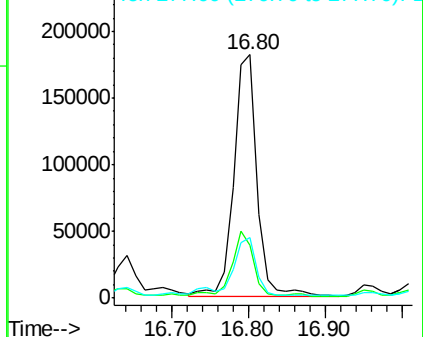
Lab File: BF085768.D

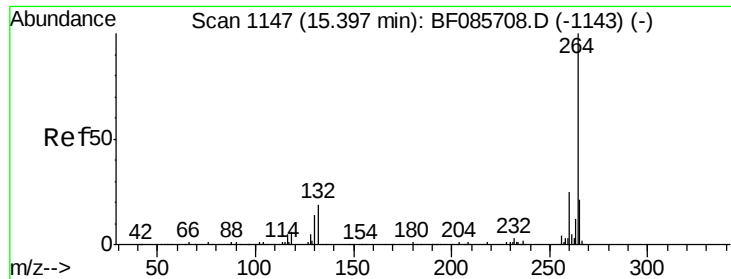
Acq: 25 Mar 2016 18:21

Tgt Ion:	276	Resp:	381400
Ion Ratio	Lower	Upper	
276	100		
138	25.0	24.2	36.4
277	25.9	20.0	30.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





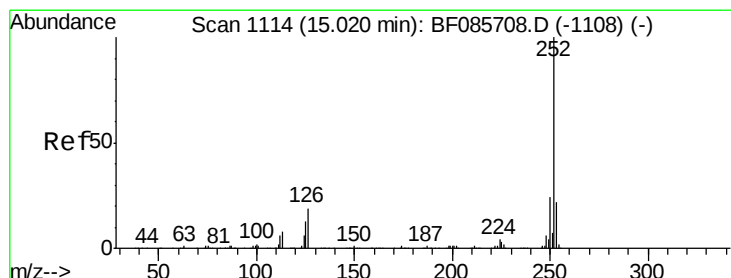
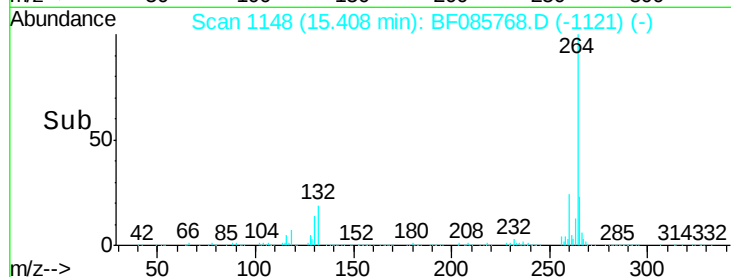
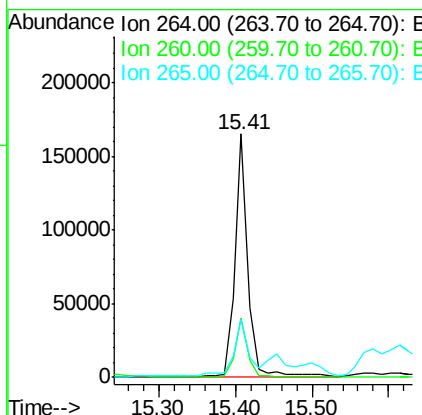
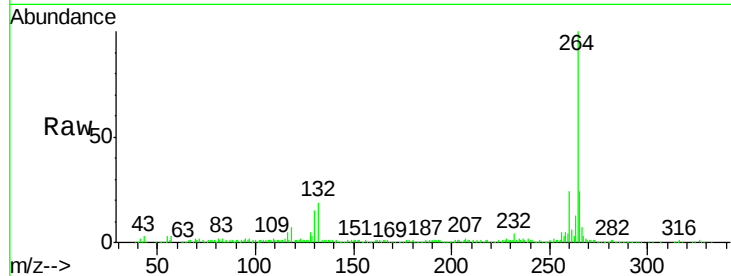
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1148
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Instrument :
BNA_F
ClientSampleId :
SB-2

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.4	29.2
265	23.9	17.2	25.8

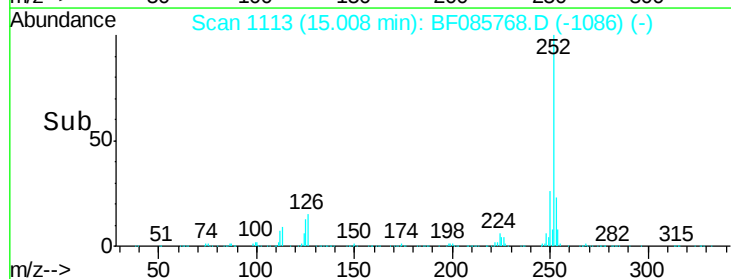
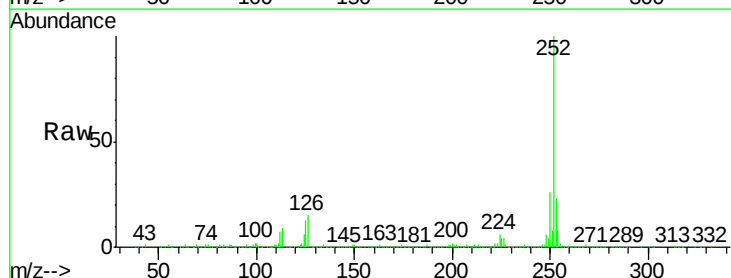
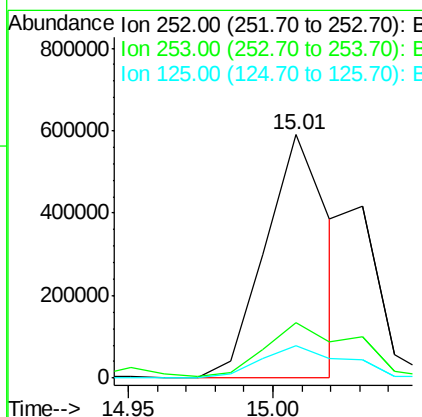
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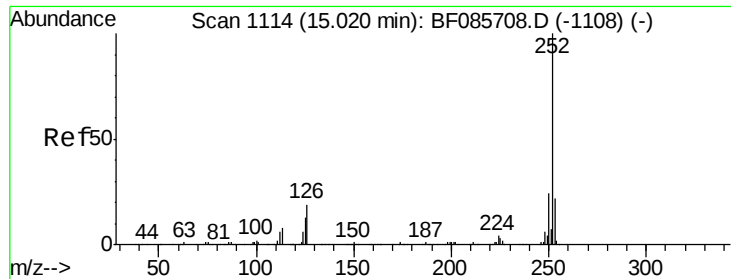
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#87
Benzo(b)fluoranthene
Concen: 72.29 ng m
RT: 15.01 min Scan# 1113
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	13.1	10.3	15.5





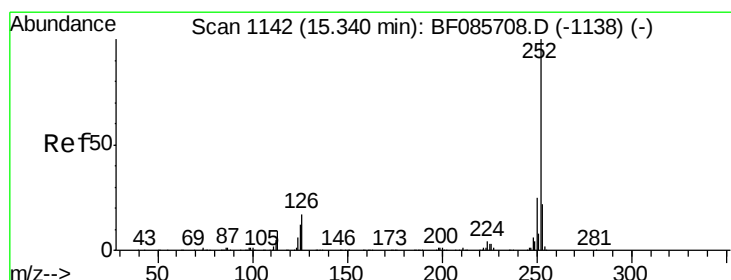
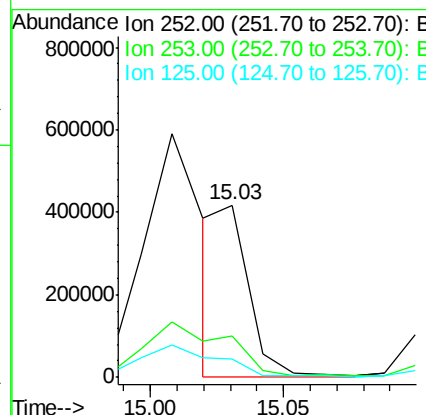
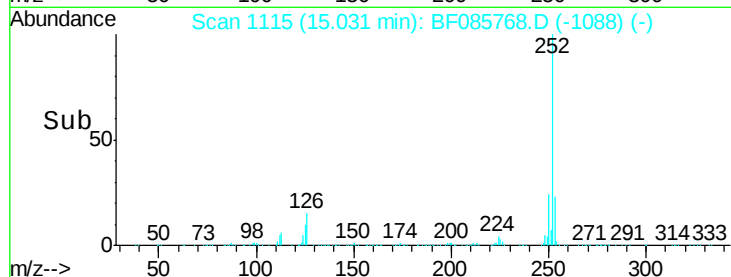
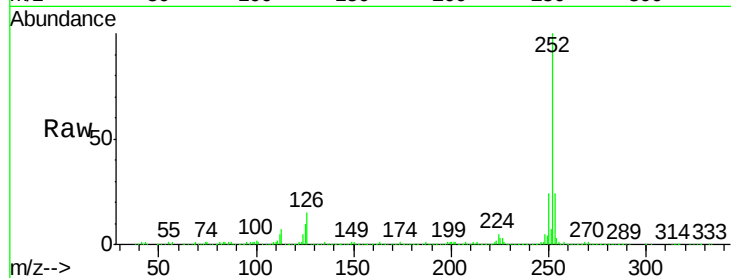
#88
Benzo(k)fluoranthene
Concen: 30.26 ng m
RT: 15.03 min Scan# 1115
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Instrument :
BNA_F
ClientSampleId :
SB-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.6
125	10.5	7.7	11.5

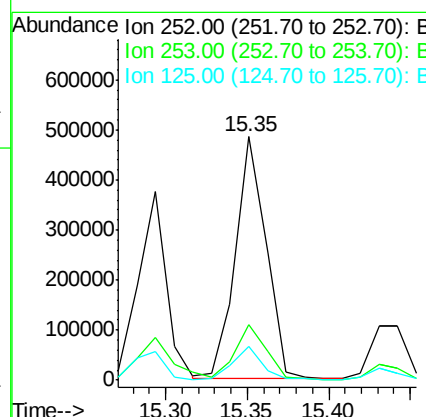
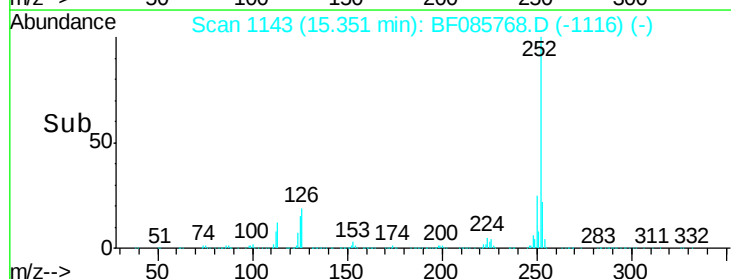
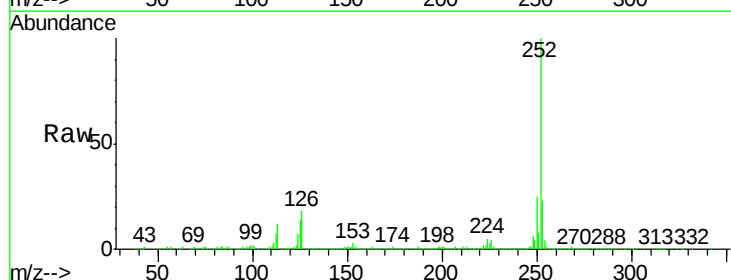
Manual Integrations
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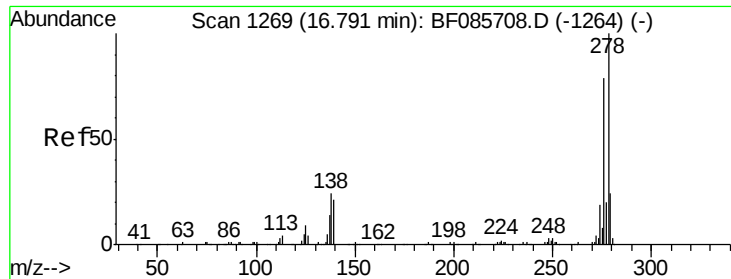
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#89
Benzo(a)pyrene
Concen: 56.64 ng
RT: 15.35 min Scan# 1143
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.0
125	13.8	10.3	15.5





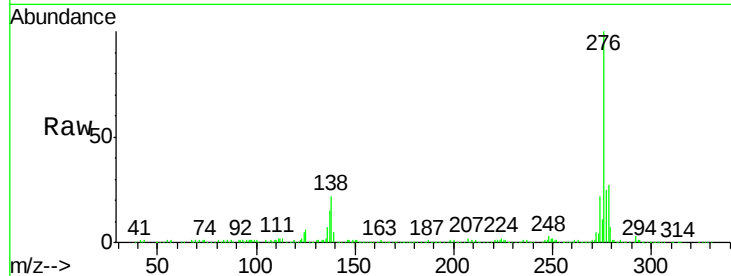
#90
Dibenzo(a,h)anthracene
Concen: 9.74 ng
RT: 16.80 min Scan# 1270
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Instrument :
BNA_F
ClientSampleId :
SB-2

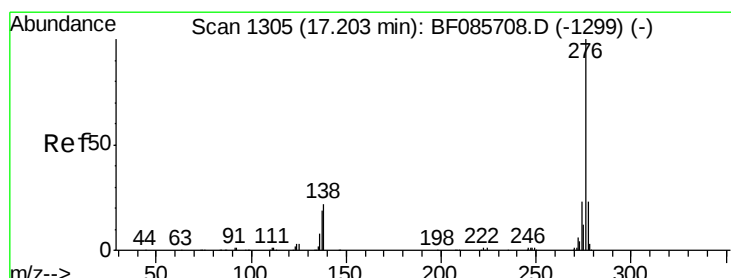
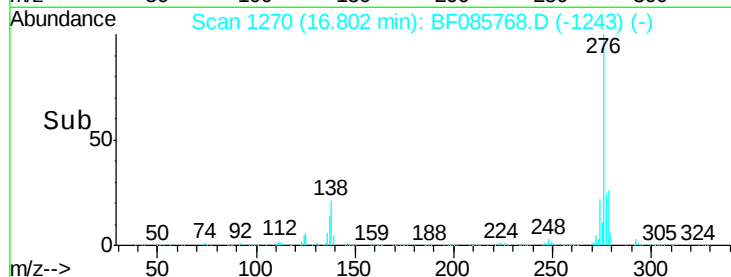
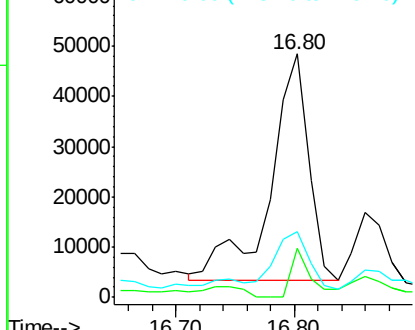
Tot Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.4	21.6
279	26.8	19.1	28.7

Manual Integrations
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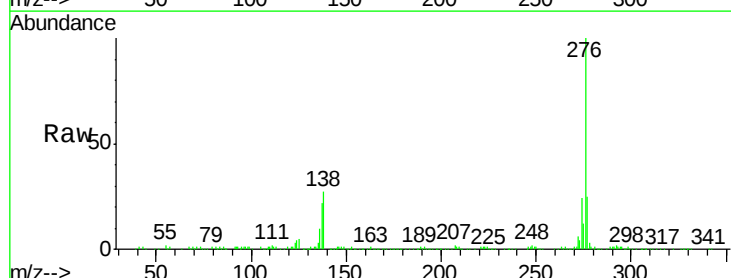


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 32.61 ng
RT: 17.21 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BF085768.D
Acq: 25 Mar 2016 18:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.8	28.2
138	27.0	22.6	34.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

