

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060315\
 Data File : BF079685.D
 Acq On : 4 Jun 2015 3:59
 Operator : TP/IZ
 Sample : G2408-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-15S

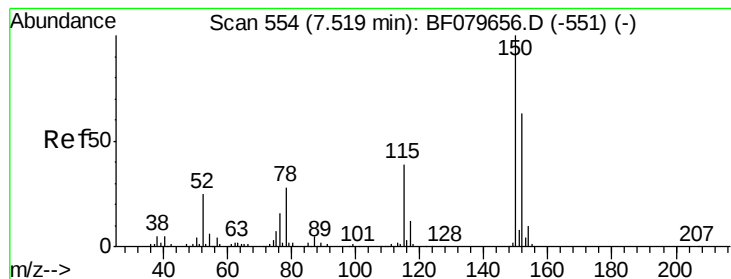
Manual Integrations
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Quant Time: Jun 04 05:03:16 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 03 15:20:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	92391	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	347274	20.00	ng	0.00
38) Acenaphthene-d10	10.59	164	178348	20.00	ng	0.00
63) Phenanthrene-d10	12.10	188	333496	20.00	ng	-0.03
75) Chrysene-d12	15.07	240	340387m	20.00	ng	-0.31
86) Perylene-d12	17.04	264	337118	20.00	ng	-0.45
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	667755	130.88	ng	0.00
7) Phenol-d6	7.11	99	874650	131.78	ng	0.00
23) Nitrobenzene-d5	8.08	82	485855	81.92	ng	0.00
41) 2,4,6-Tribromophenol	11.39	330	185794	126.22	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	1033542	87.97	ng	0.00
78) Terphenyl-d14	13.79	244	1116195	83.08	ng	-0.16
Target Compounds						Qvalue
31) Naphthalene	8.83	128	41003	2.26	ng	98
37) 2-Methylnaphthalene	9.53	142	24936	2.06	ng	97
48) Acenaphthylene	10.46	152	43140	2.42	ng	98
49) Dimethylphthalate	10.27	163	156759	12.00	ng	# 98
51) Acenaphthene	10.63	154	37321	3.45	ng	96
54) Dibenzofuran	10.80	168	35689	2.27	ng	95
57) Fluorene	11.14	166	61859	4.82	ng	98
70) Phenanthrene	12.13	178	724581	39.30	ng	100
71) Anthracene	12.18	178	205835	11.10	ng	98
72) Carbazole	12.33	167	46008	2.70	ng	97
74) Fluoranthene	13.39	202	1038742	52.25	ng	96
77) Pylene	13.66	202	972438m	49.62	ng	
80) Benzo(a)anthracene	15.06	228	539335	28.97	ng	98
82) Chrysene	15.11	228	492186m	26.28	ng	
83) Bis(2-ethylhexyl)phthalate	15.02	149	24920	5.30	ng	95
85) Indeno(1,2,3-cd)pyrene	19.06	276	263149	14.37	ng	93
87) Benzo(b)fluoranthene	16.46	252	661920m	38.00	ng	
88) Benzo(k)fluoranthene	16.49	252	148515m	7.28	ng	
89) Benzo(a)pyrene	16.95	252	456481	26.80	ng	99
90) Dibenzo(a,h)anthracene	19.07	278	62812	3.94	ng	95
91) Benzo(g,h,i)perylene	19.68	276	246024	14.53	ng	99

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



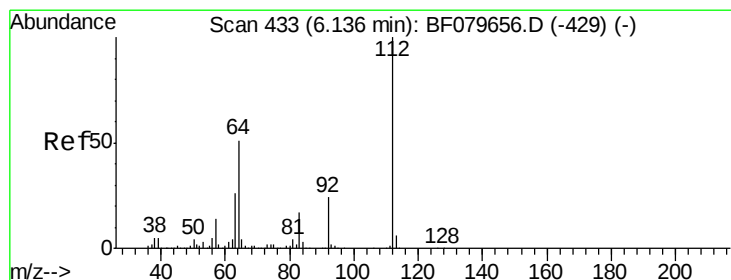
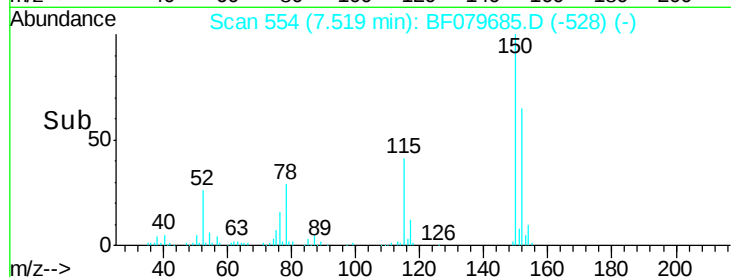
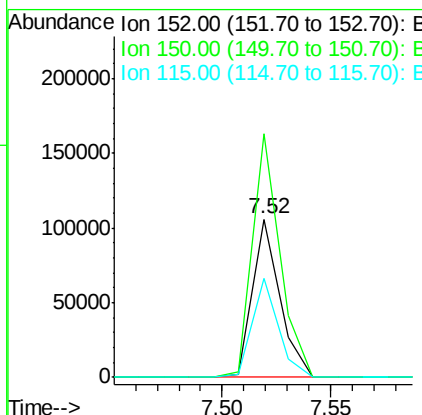
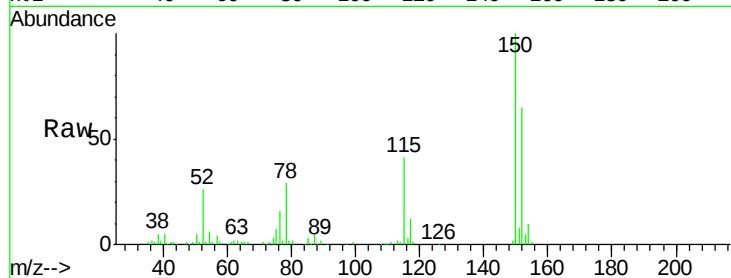
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.52 min Scan# 554
 Delta R.T. 0.00 min
 Lab File: BF079685.D
 Acq: 4 Jun 2015 3:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-15S

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	126.7	190.1
115	62.7	49.2	73.8

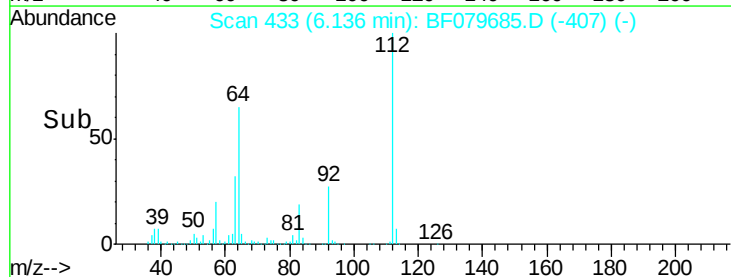
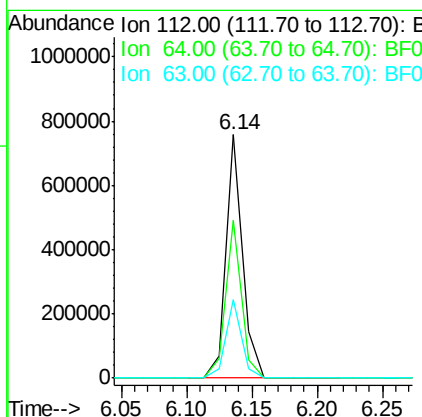
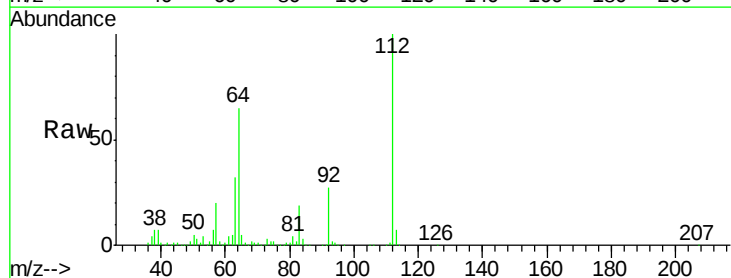
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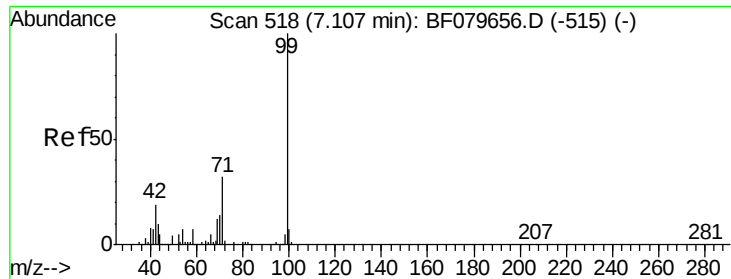
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#5
 2-Fluorophenol
 Concen: 130.88 ng
 RT: 6.14 min Scan# 433
 Delta R.T. 0.00 min
 Lab File: BF079685.D
 Acq: 4 Jun 2015 3:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.6	41.1	61.7#
63	32.5	20.5	30.7#





#7

Phenol-d6

Concen: 131.78 ng

RT: 7.11 min Scan# 518

Delta R.T. 0.00 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

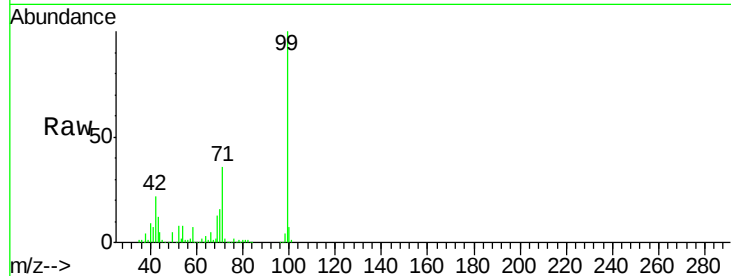
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SB-15S

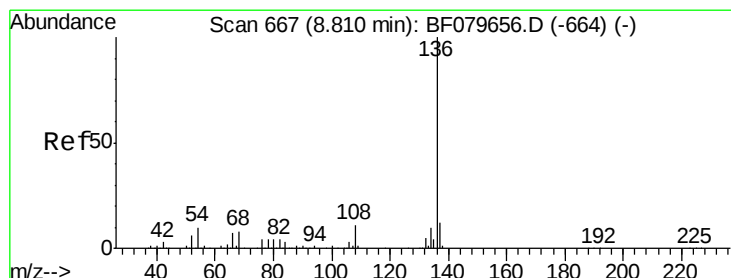
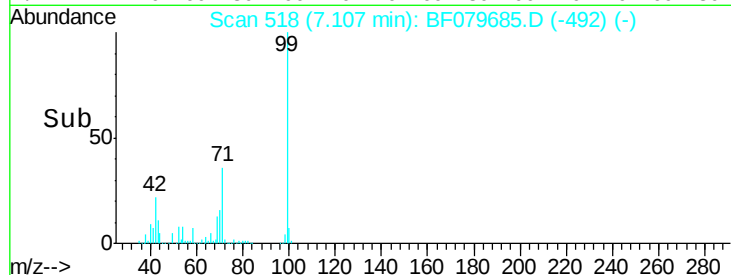
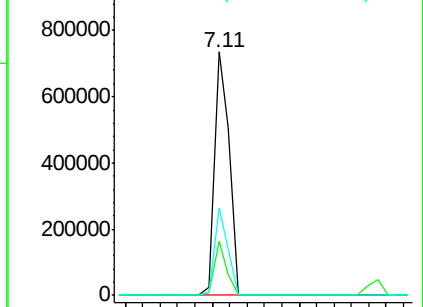
Tot Ion:	99	Resp:	874650
Ion Ratio	Lower	Upper	
99	100		
42	22.0	15.2	22.8
71	35.8	25.9	38.9

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

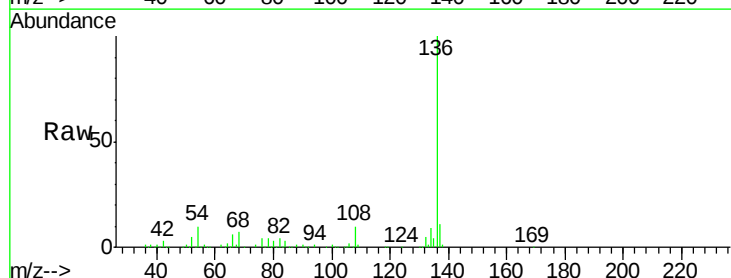
RT: 8.81 min Scan# 667

Delta R.T. 0.00 min

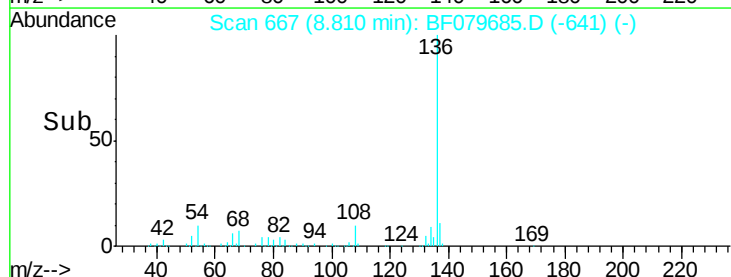
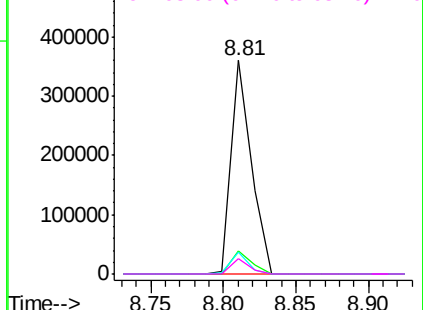
Lab File: BF079685.D

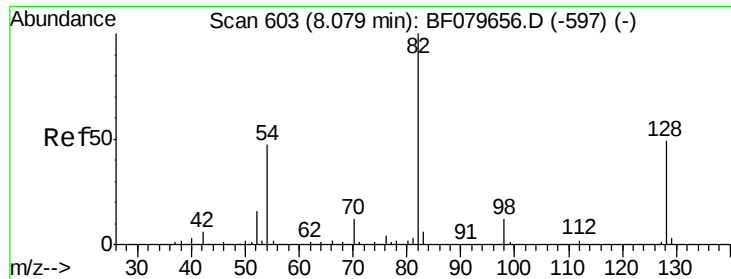
Acq: 4 Jun 2015 3:59

Tgt Ion:	136	Resp:	347274
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.3	13.9
54	10.4	8.3	12.5
68	7.2	6.1	9.1



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





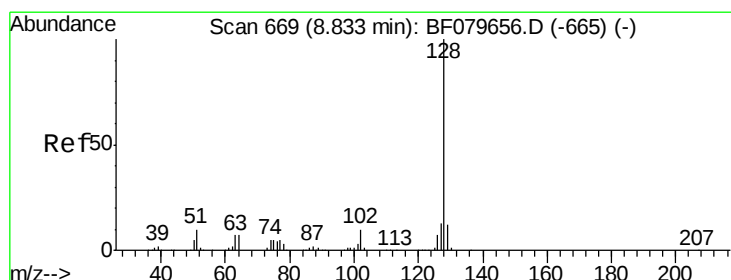
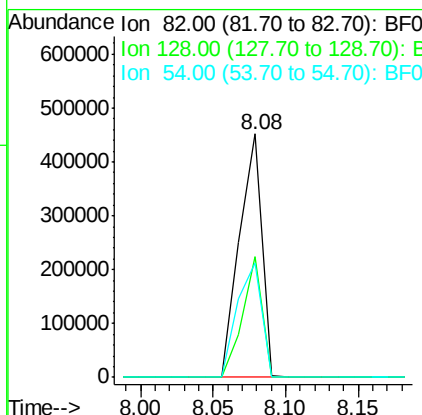
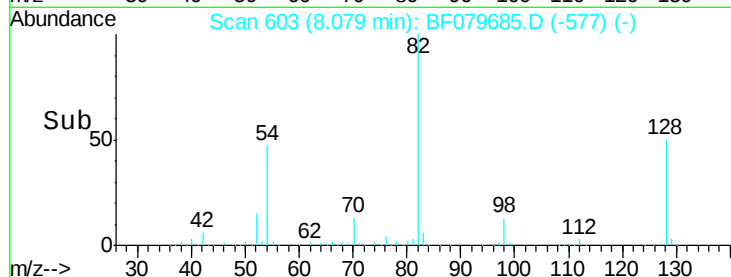
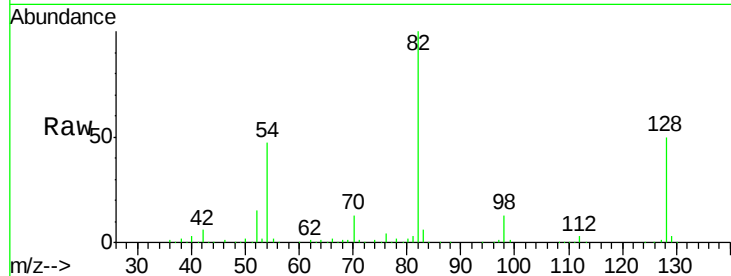
#23
Nitrobenzene-d5
Concen: 81.92 ng
RT: 8.08 min Scan# 603
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Instrument :
BNA_F
ClientSampleId :
SB-15S

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.7	39.4	59.0
54	46.7	37.4	56.0

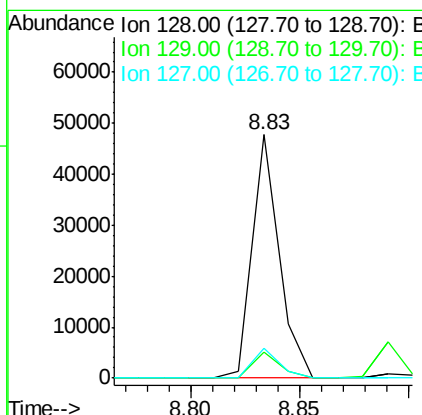
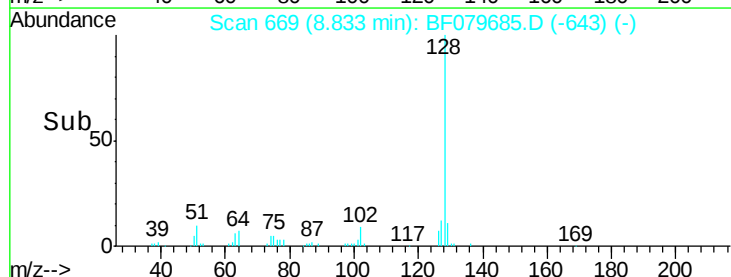
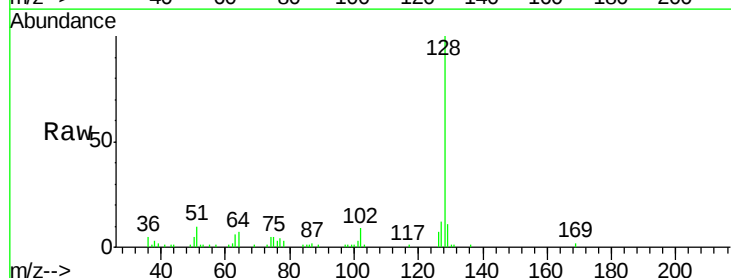
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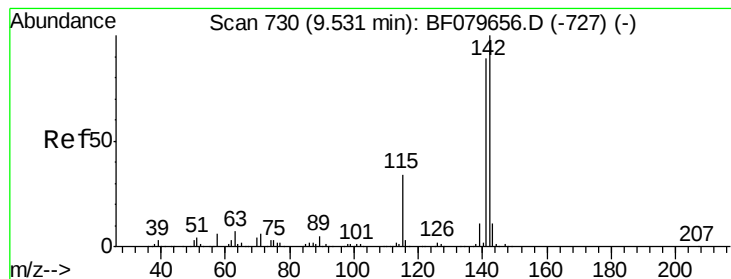
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#31
Naphthalene
Concen: 2.26 ng
RT: 8.83 min Scan# 669
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.3	13.9
127	12.5	10.4	15.6





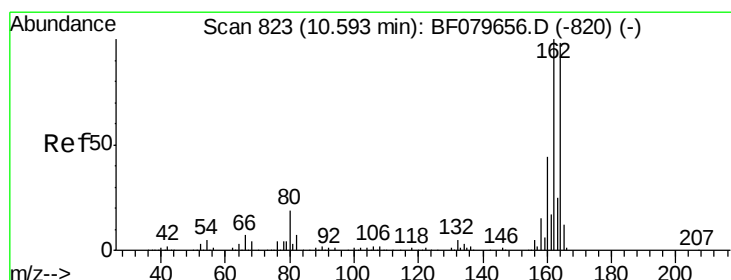
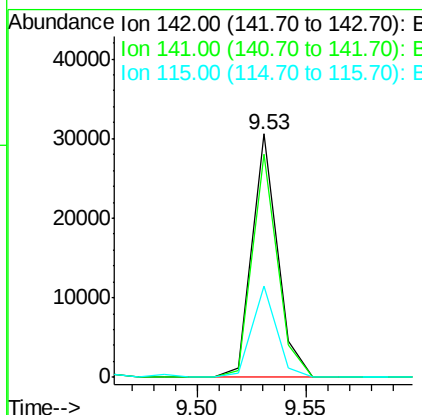
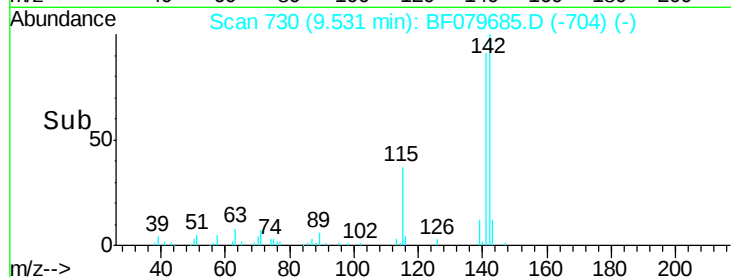
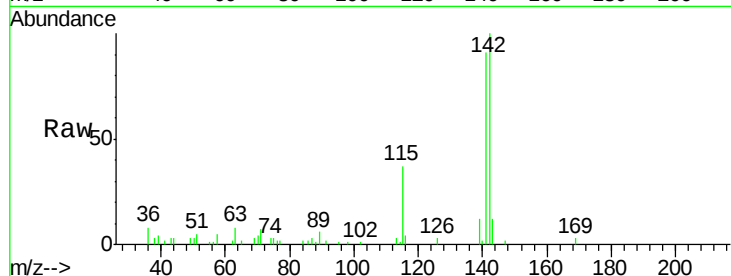
#37
2-Methylnaphthalene
Concen: 2.06 ng
RT: 9.53 min Scan# 730
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Instrument :
BNA_F
ClientSampleId :
SB-15S

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.4	107.0
115	37.3	27.3	40.9

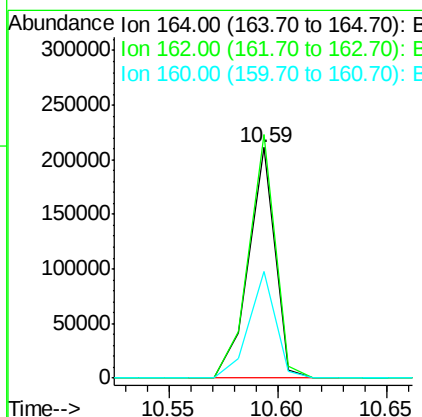
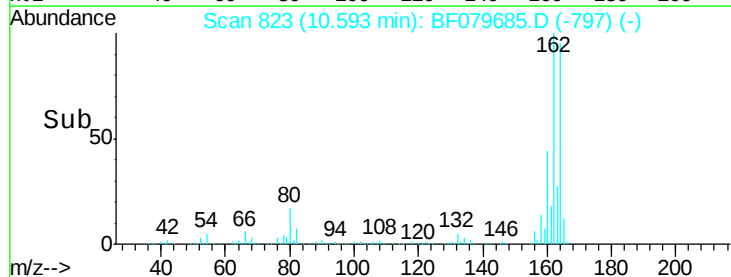
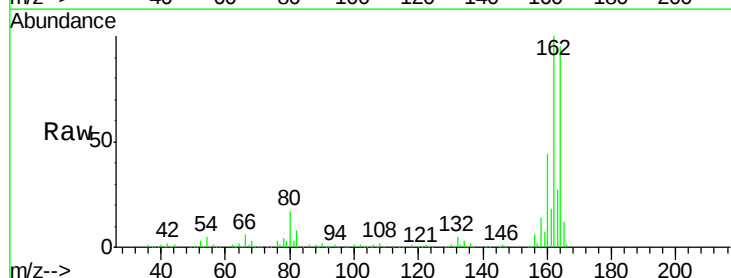
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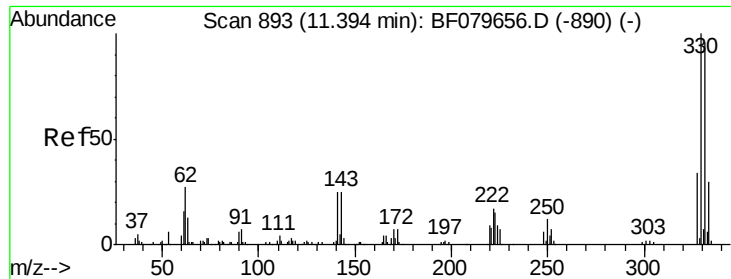
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.59 min Scan# 823
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.0	123.0
160	46.3	35.9	53.9





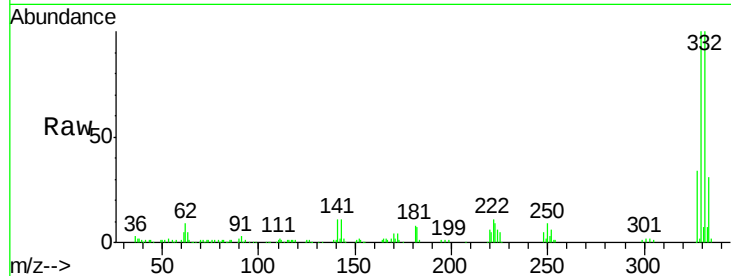
#41
2,4,6-Tribromophenol
Concen: 126.22 ng
RT: 11.39 min Scan# 893
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Instrument :
BNA_F
ClientSampleId :
SB-15S

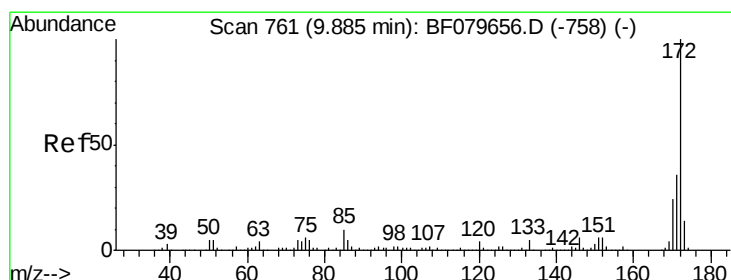
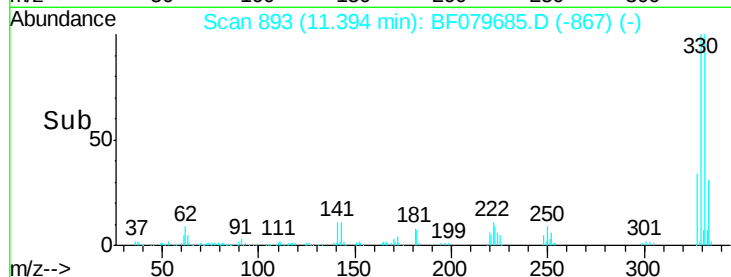
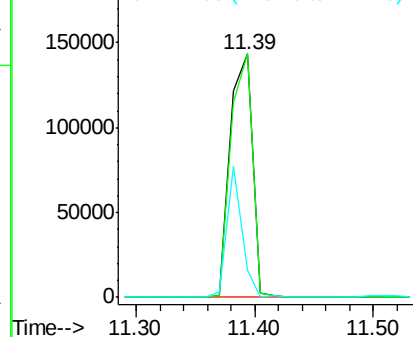
Tot Ion	Ratio	Resp	Lower	Upper
330	100	185794		
332	97.4		77.3	115.9
141	37.2		27.4	41.2

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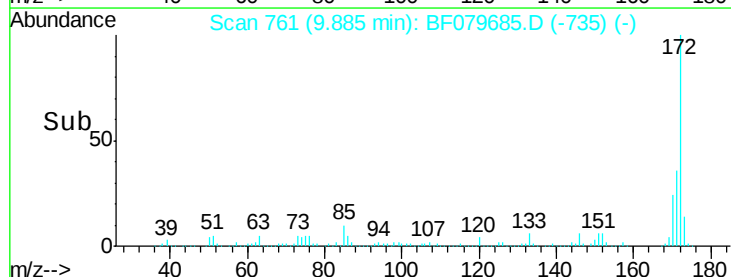
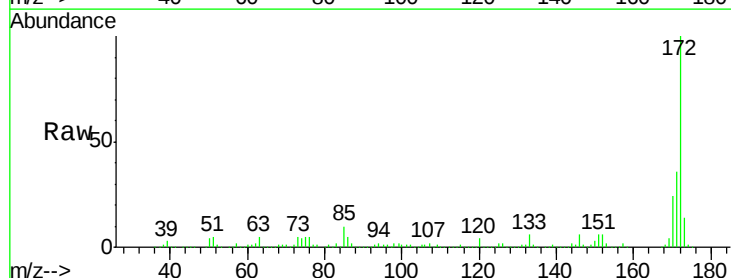
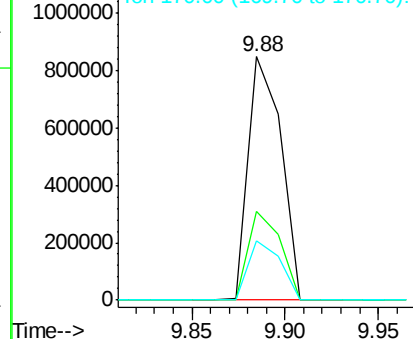
Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

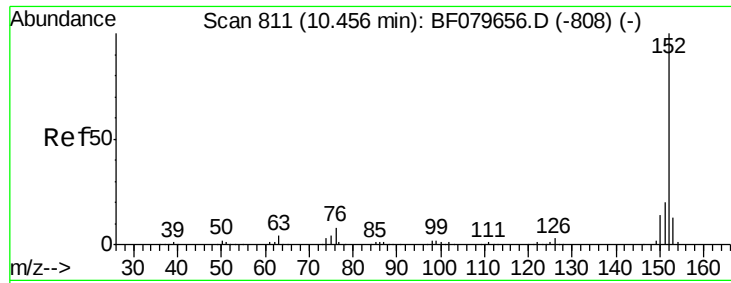


#44
2-Fluorobiphenyl
Concen: 87.97 ng
RT: 9.88 min Scan# 761
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1033542		
171	36.3		28.8	43.2
170	24.4		19.2	28.8

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





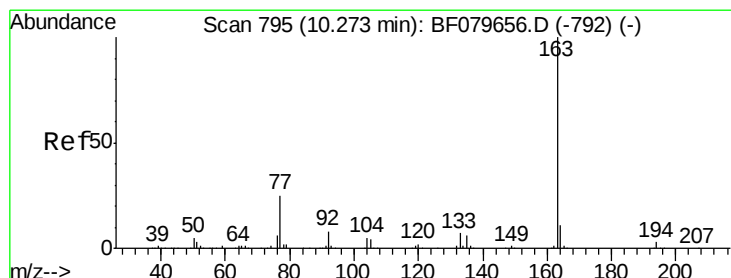
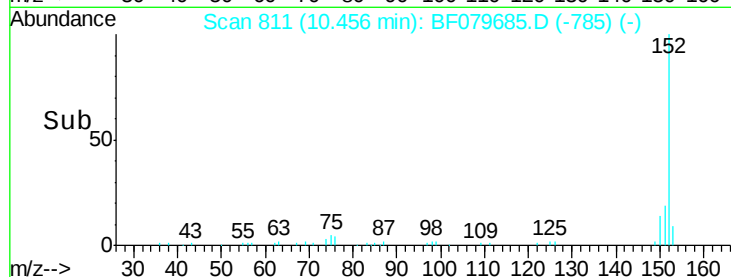
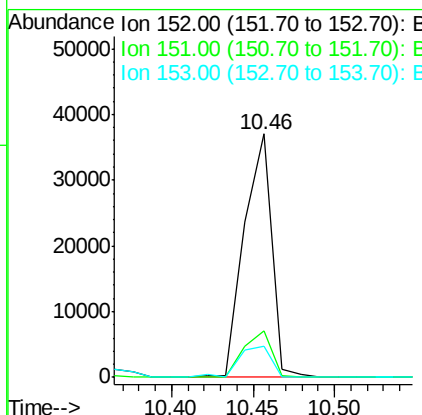
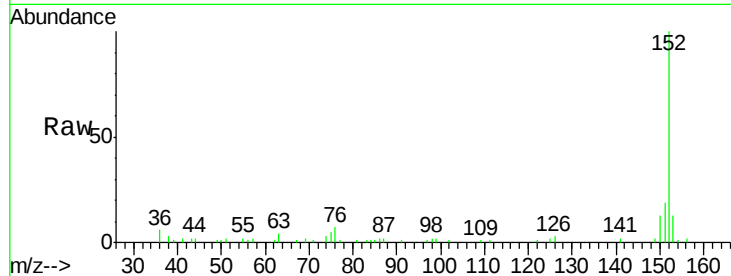
#48
Acenaphthylene
Concen: 2.42 ng
RT: 10.46 min Scan# 811
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Instrument :
BNA_F
ClientSampled :
SB-15S

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.2	24.4
153	12.6	10.4	15.6

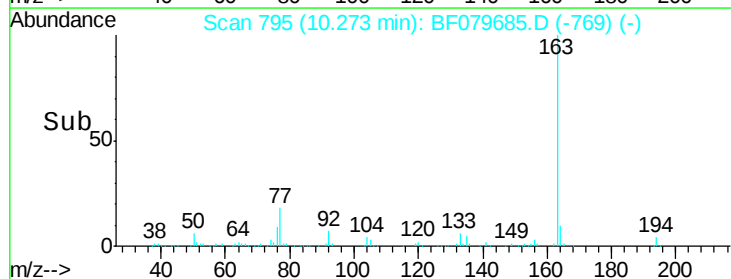
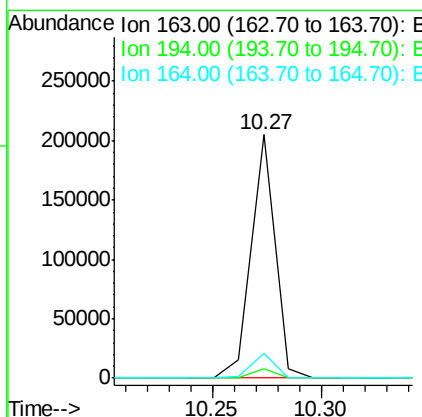
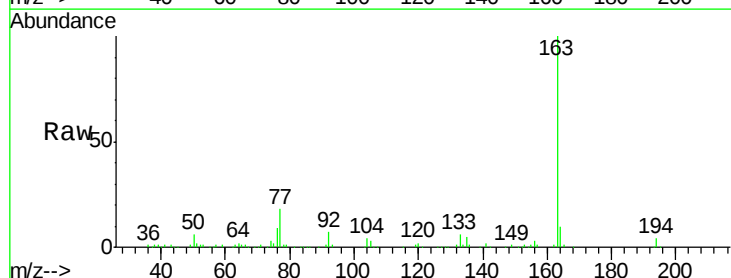
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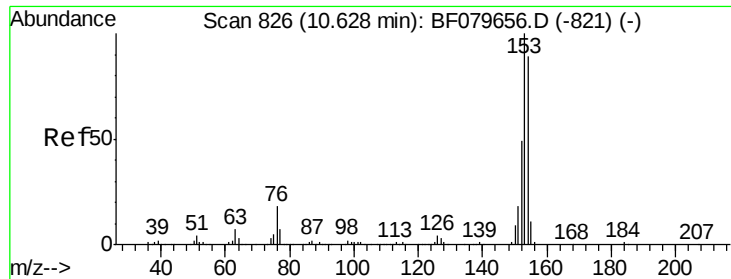
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#49
Dimethylphthalate
Concen: 12.00 ng
RT: 10.27 min Scan# 795
Delta R.T. 0.00 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.6	3.8#
164	10.1	8.6	12.8





#51

Acenaphthene

Concen: 3.45 ng

RT: 10.63 min Scan# 826

Delta R.T. 0.00 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

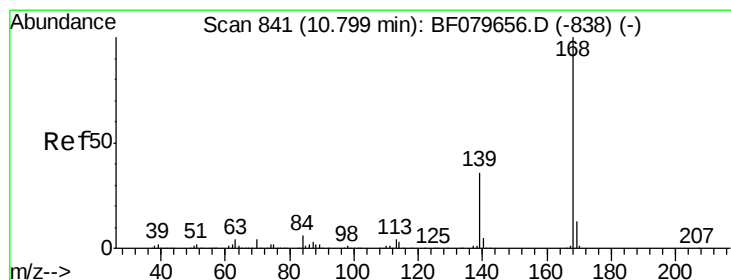
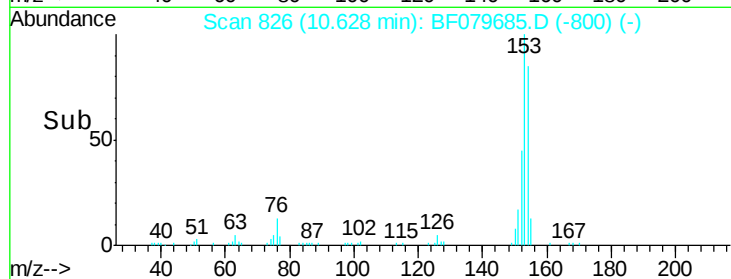
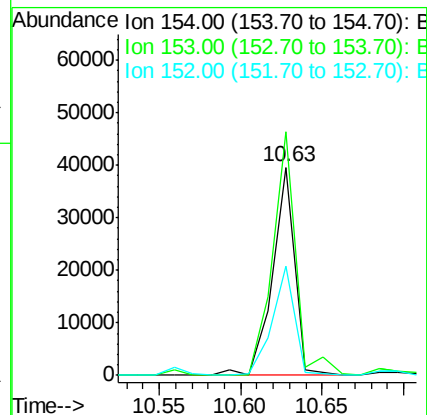
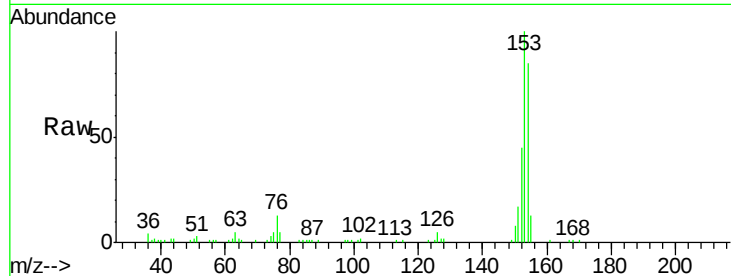
ClientSampleId :

SB-15S

Tot Ion:	154	Resp:	37321
Ion Ratio	Lower	Upper	
154	100		
153	117.1	89.8	134.6
152	52.8	43.8	65.8

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#54

Dibenzofuran

Concen: 2.27 ng

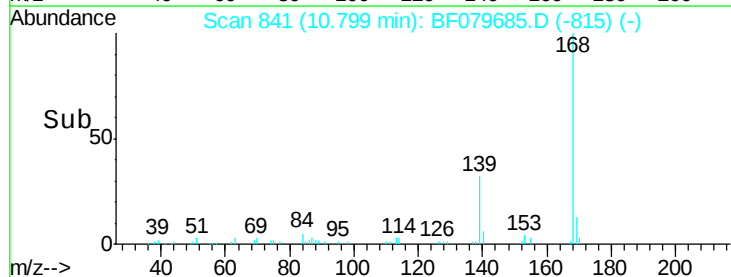
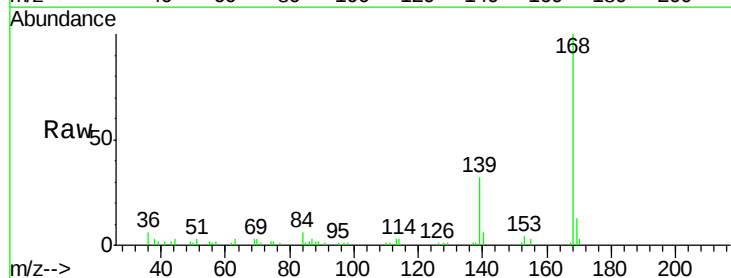
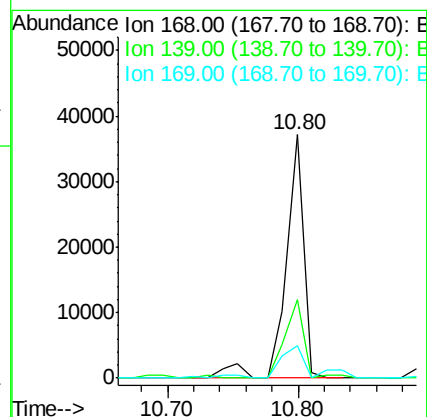
RT: 10.80 min Scan# 841

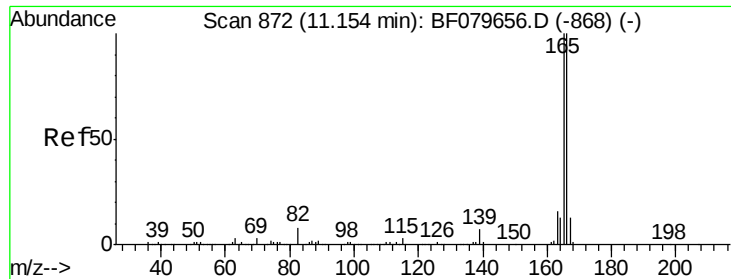
Delta R.T. 0.00 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Tgt Ion:	168	Resp:	35689
Ion Ratio	Lower	Upper	
168	100		
139	32.2	29.1	43.7
169	13.1	10.7	16.1





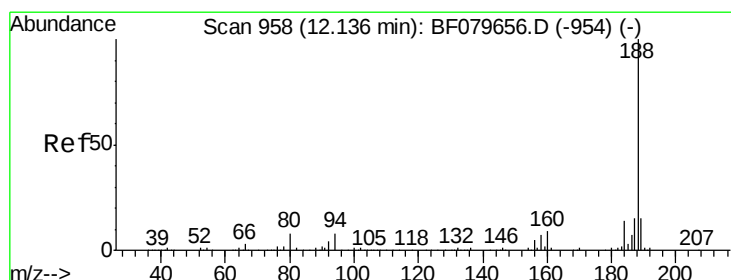
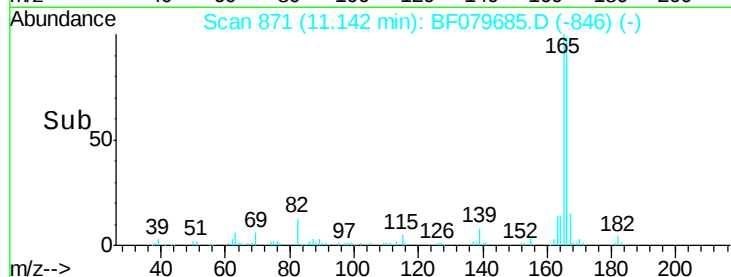
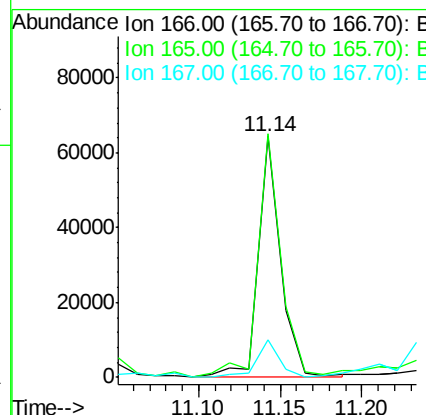
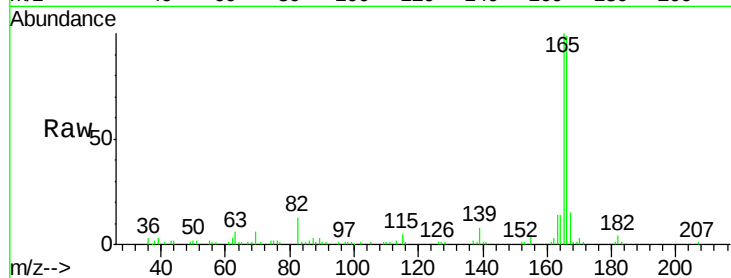
#57
Fluorene
 Concen: 4.82 ng
 RT: 11.14 min Scan# 871
 Delta R.T. -0.01 min
 Lab File: BF079685.D
 Acq: 4 Jun 2015 3:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-15S

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	101.1	79.8	119.6	
167	15.5	10.6	15.8	

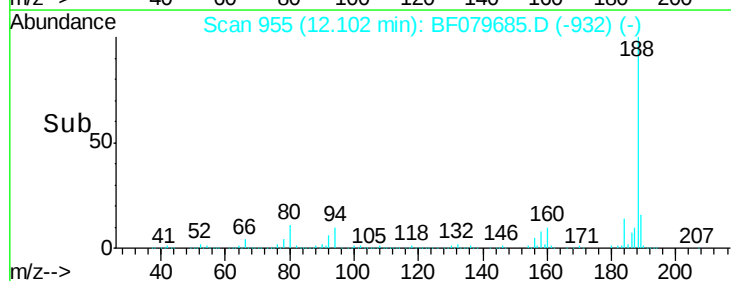
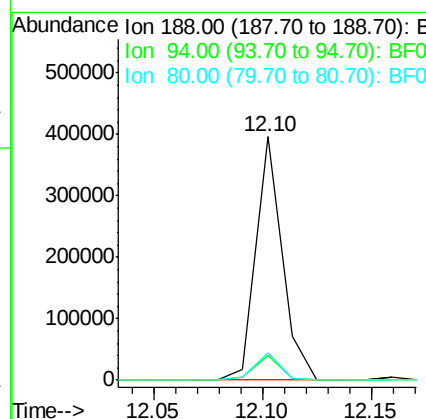
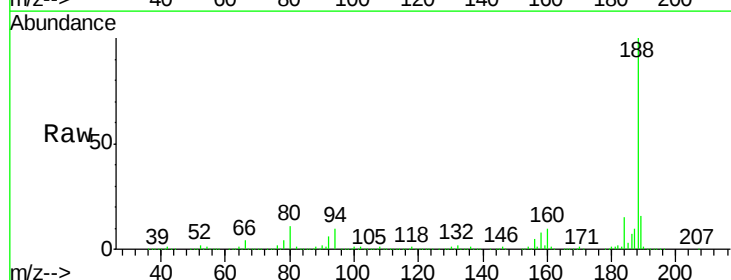
Manual Integrations
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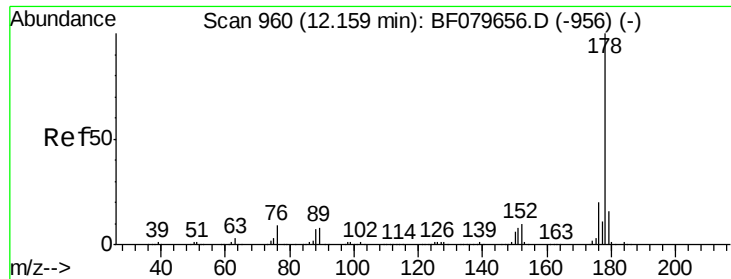
apatel
 6/5/2015 8:10:08 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.10 min Scan# 955
 Delta R.T. -0.03 min
 Lab File: BF079685.D
 Acq: 4 Jun 2015 3:59

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.3	6.1	9.1#	
80	11.2	6.2	9.2#	





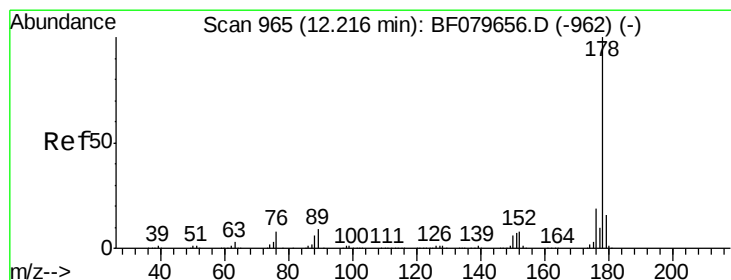
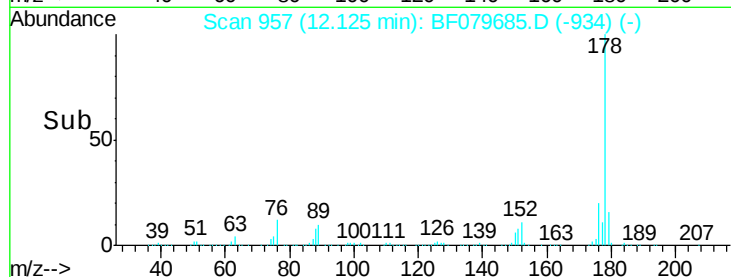
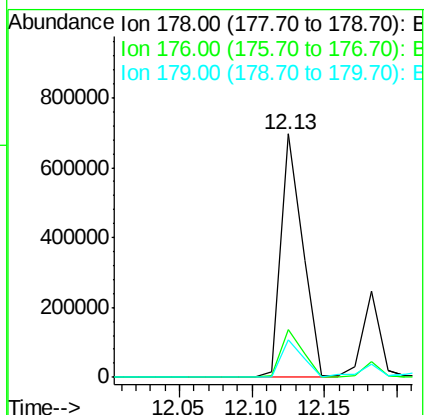
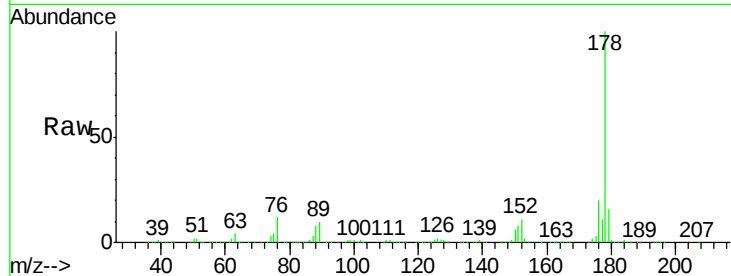
#70
Phenanthrene
Concen: 39.30 ng
RT: 12.13 min Scan# 957
Delta R.T. -0.03 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Instrument :
BNA_F
ClientSampleId :
SB-15S

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.6	12.7	19.1

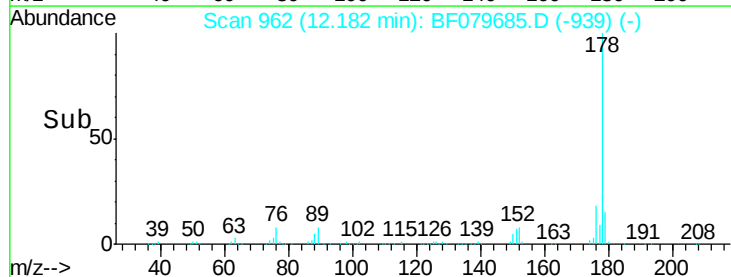
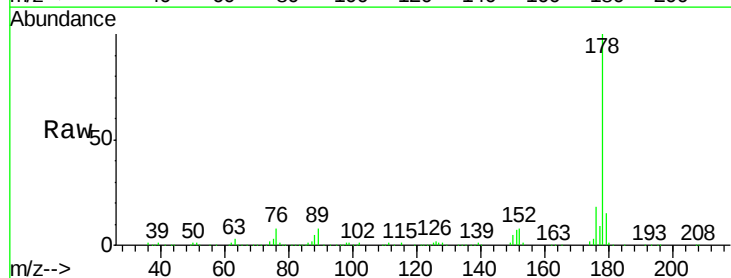
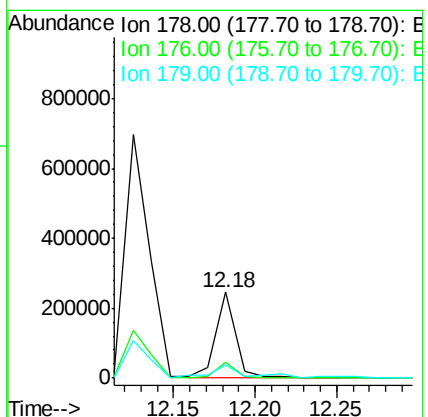
Manual Integrations
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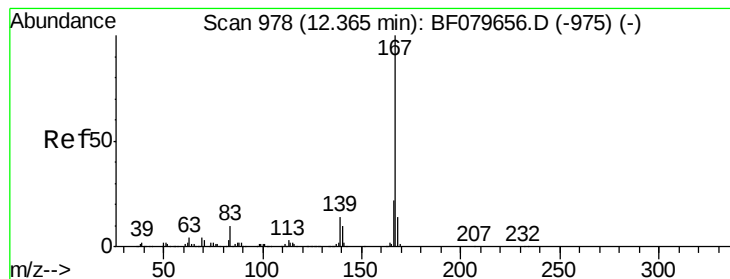
apatel
6/5/2015 8:10:08 AM



#71
Anthracene
Concen: 11.10 ng
RT: 12.18 min Scan# 962
Delta R.T. -0.03 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.0
179	15.2	12.6	19.0





#72

Carbazole

Concen: 2.70 ng

RT: 12.33 min Scan# 975

Delta R.T. -0.03 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

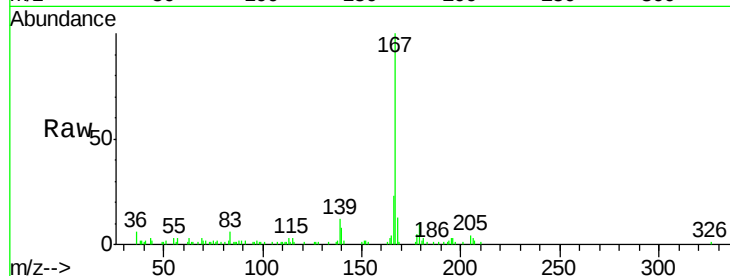
ClientSampleId :

SB-15S

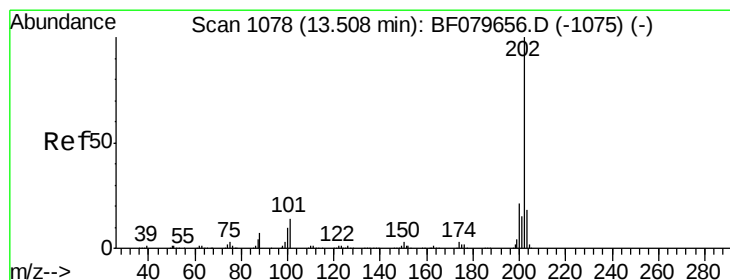
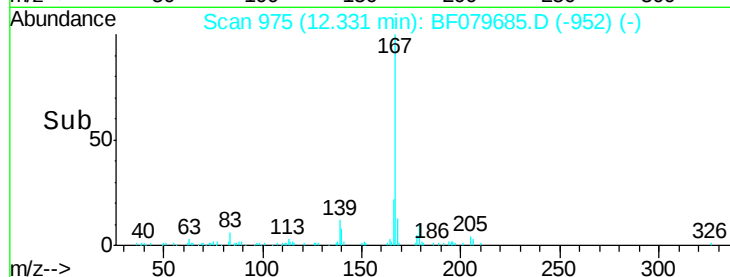
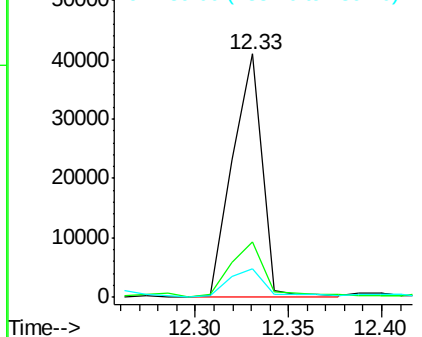
Tot Ion:	167	Resp:	46008
Ion Ratio		Lower	Upper
167	100		
166	22.7	17.4	26.2
139	11.9	11.3	16.9

Manual Integrations
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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: 52.25 ng

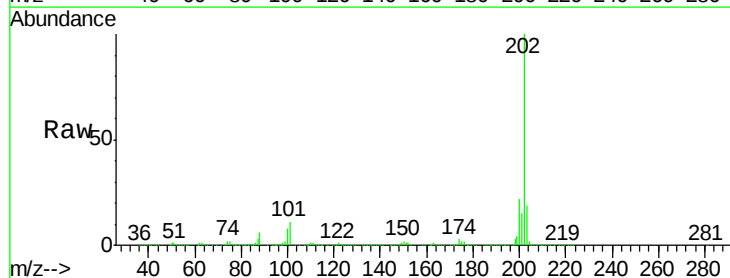
RT: 13.39 min Scan# 1068

Delta R.T. -0.11 min

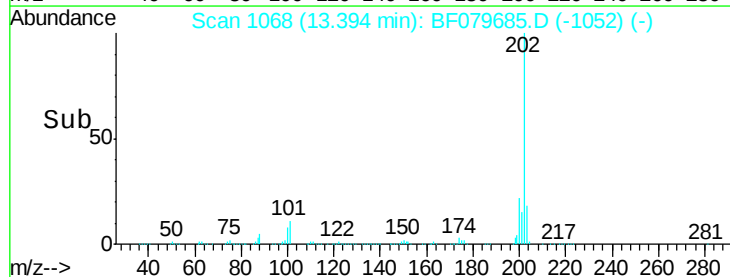
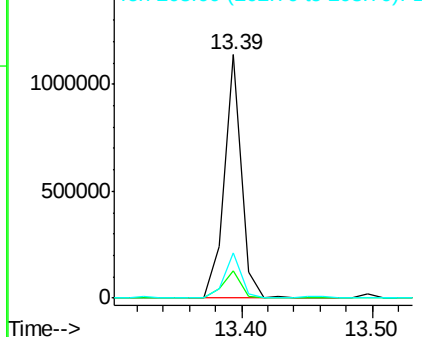
Lab File: BF079685.D

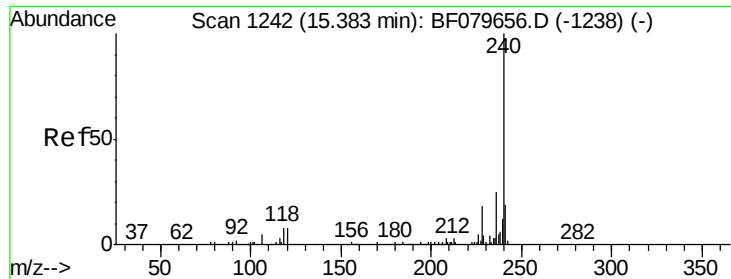
Acq: 4 Jun 2015 3:59

Tgt Ion:	202	Resp:	1038742
Ion Ratio		Lower	Upper
202	100		
101	11.1	0.0	34.0
203	18.5	0.0	37.9



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 m

RT: 15.07 min Scan# 1215

Delta R.T. -0.31 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

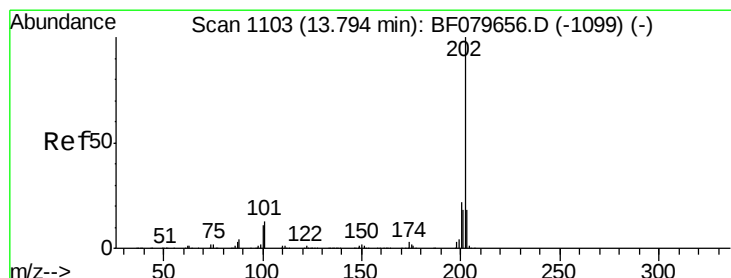
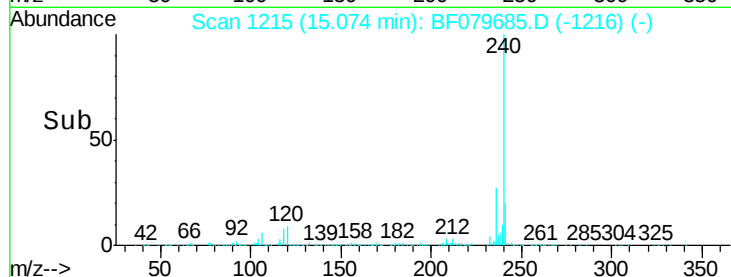
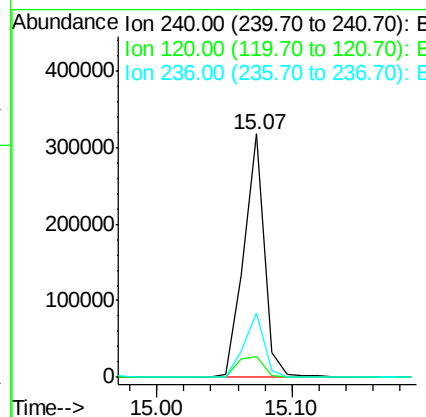
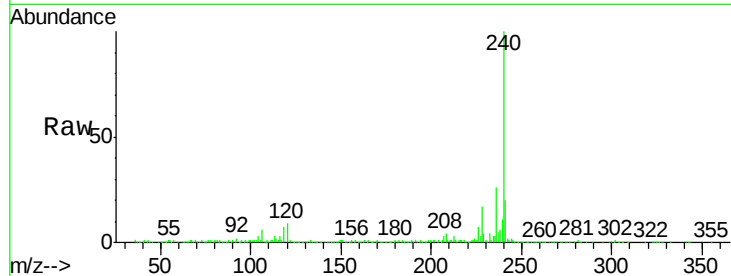
ClientSampleId :

SB-15S

Tot Ion:	240	Resp:	340387
Ion Ratio	Lower	Upper	
240	100		
120	8.8	6.4	9.6
236	26.5	20.2	30.4

Manual Integrations
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#77

Pyrene

Concen: 49.62 ng m

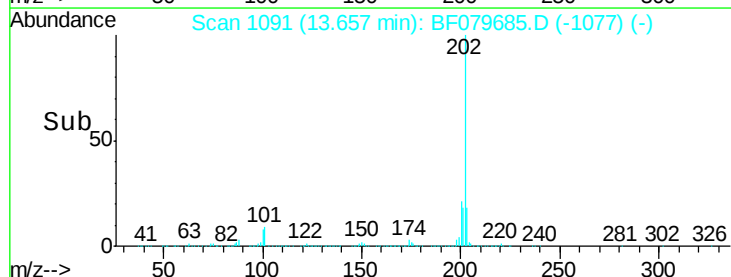
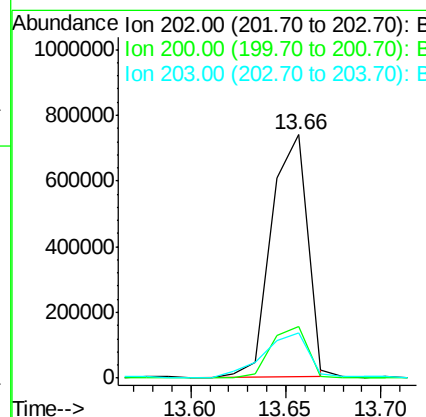
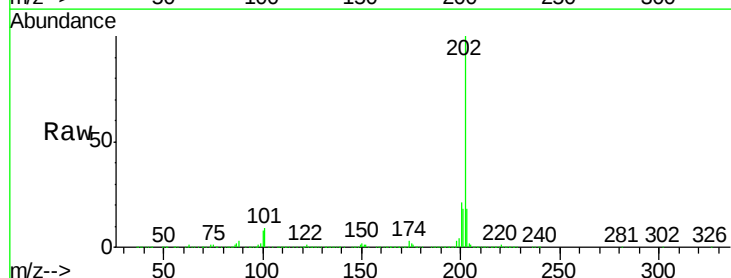
RT: 13.66 min Scan# 1091

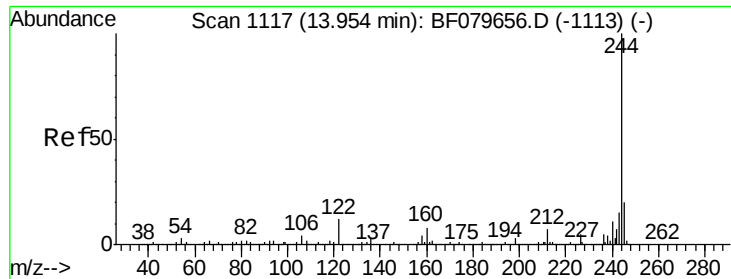
Delta R.T. -0.14 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Tgt Ion:	202	Resp:	972438
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.4	26.0
203	18.4	14.5	21.7





#78

Terphenyl-d14

Concen: 83.08 ng

RT: 13.79 min Scan# 1103

Delta R.T. -0.16 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

ClientSampleId :

SB-15S

Tot Ion:244 Resp: 1116195

Ion Ratio Lower Upper

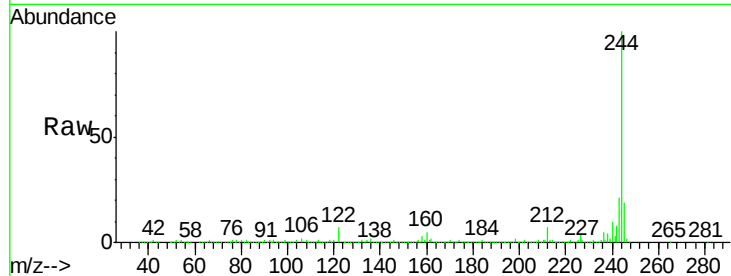
244 100

212 6.6 5.9 8.9

122 7.4 9.8 14.6#

Manual Integrations
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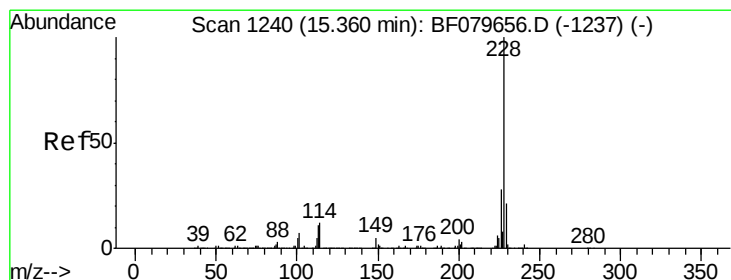
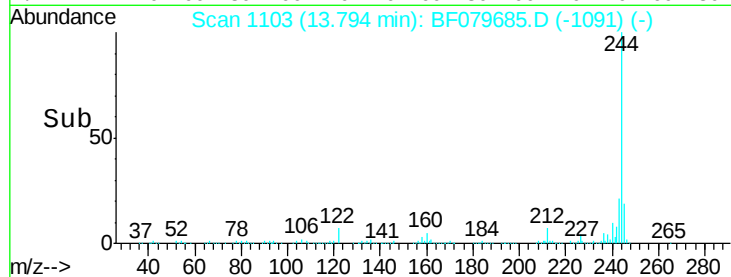
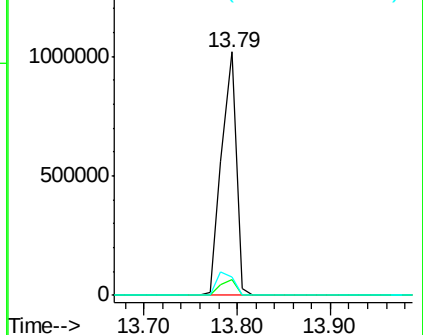
apatel
6/5/2015 8:10:08 AM



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: 28.97 ng

RT: 15.06 min Scan# 1214

Delta R.T. -0.30 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

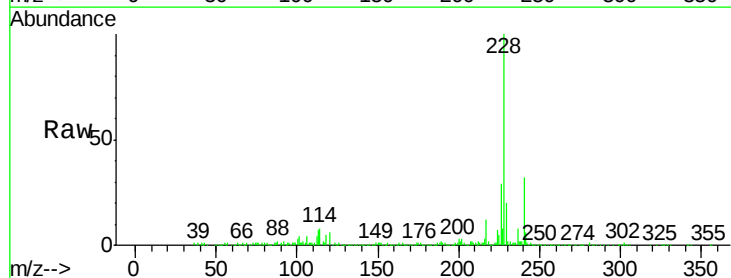
Tgt Ion:228 Resp: 539335

Ion Ratio Lower Upper

228 100

226 29.5 22.5 33.7

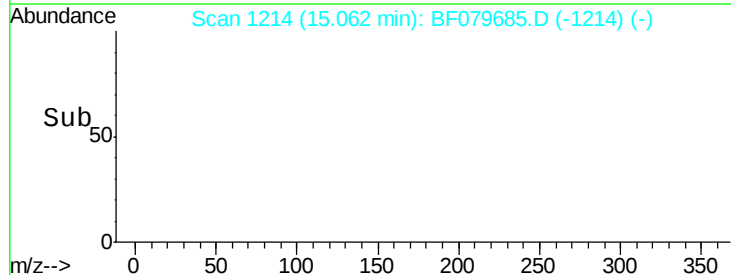
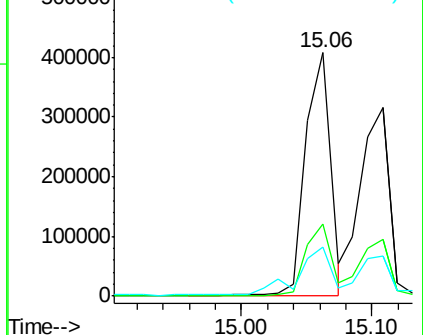
229 20.3 16.6 24.8

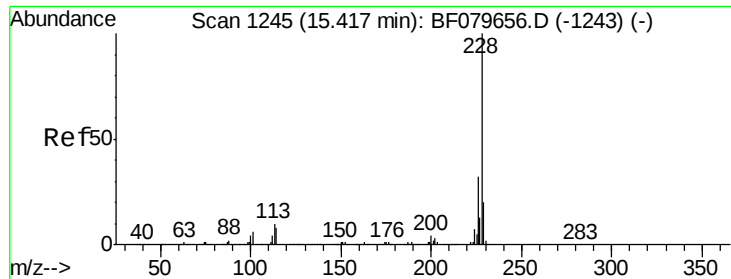


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





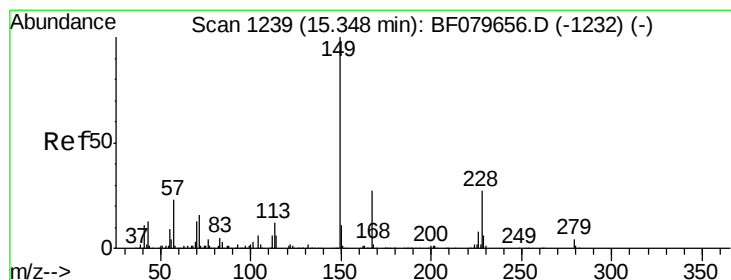
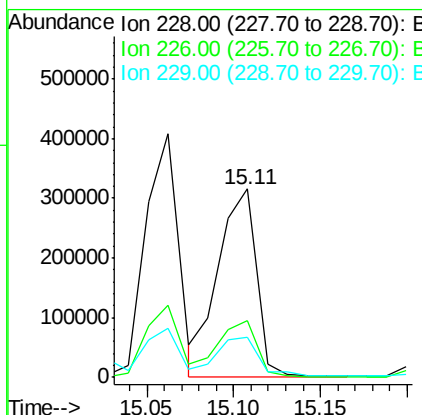
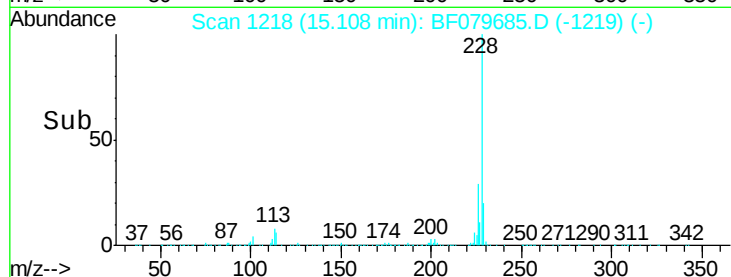
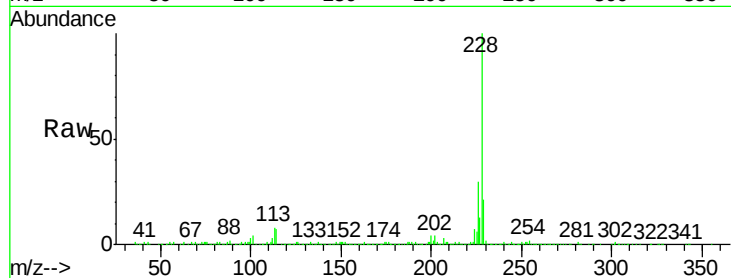
#82
 Chrvsene
 Concen: 26.28 ng/ml
 RT: 15.11 min Scan# 1218
 Delta R.T. -0.31 min
 Lab File: BF079685.D
 Acq: 4 Jun 2015 3:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-15S

Tot Ion:	228	Resp:	492186
Ion Ratio	Lower	Upper	
228	100		
226	30.1	25.2	37.8
229	21.1	16.3	24.5

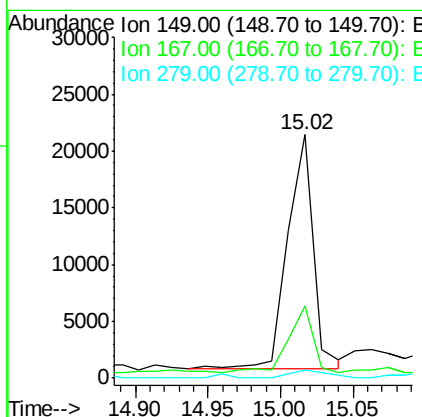
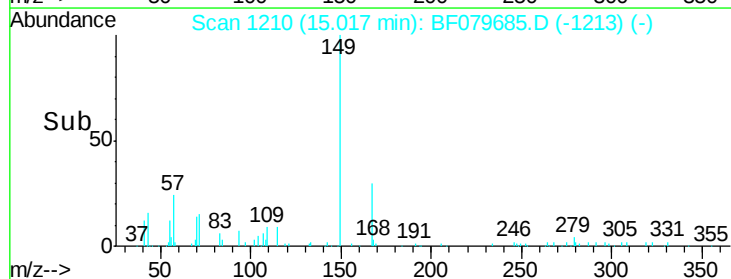
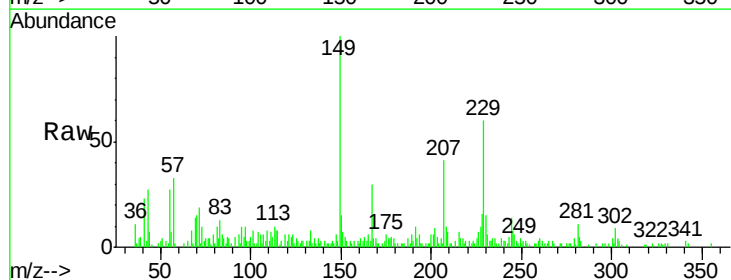
Manual Integrations
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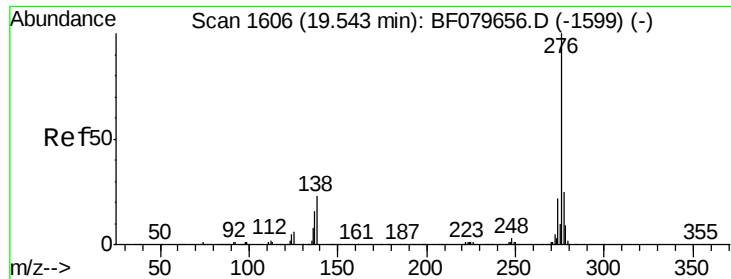
apatel
 6/5/2015 8:10:08 AM



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 5.30 ng
 RT: 15.02 min Scan# 1210
 Delta R.T. -0.33 min
 Lab File: BF079685.D
 Acq: 4 Jun 2015 3:59

Tgt Ion:	149	Resp:	24920
Ion Ratio	Lower	Upper	
149	100		
167	29.7	21.6	32.4
279	3.6	3.1	4.7





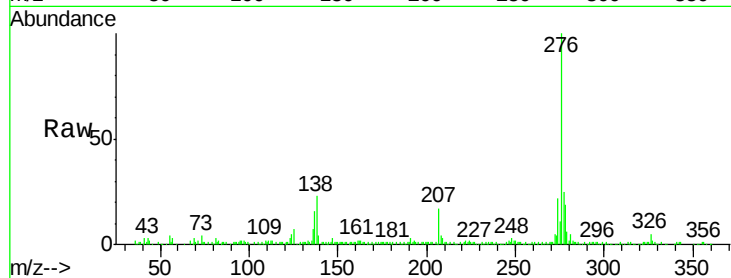
#85
Indeno(1,2,3-cd)pyrene
Concen: 14.37 ng
RT: 19.06 min Scan# 1564
Delta R.T. -0.48 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

Instrument :
BNA_F
ClientSampleID :
SB-15S

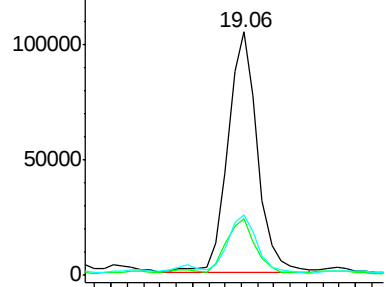
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.0	21.9	32.9
277	23.7	20.2	30.4

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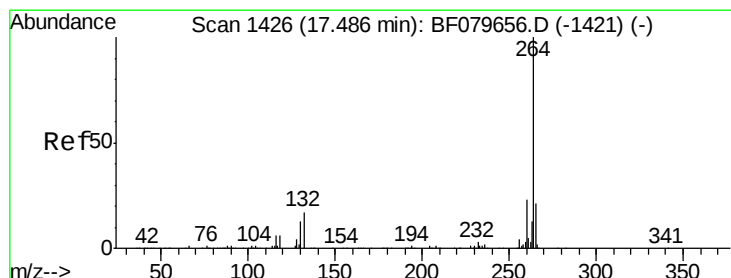
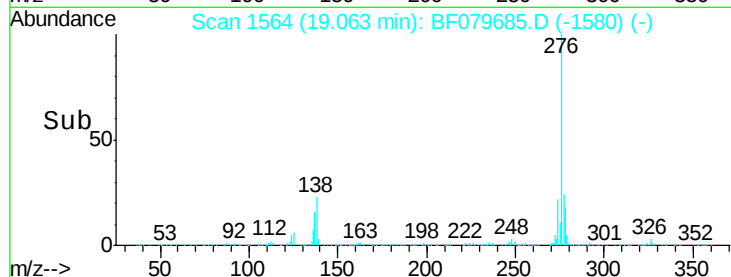
apatel
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Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



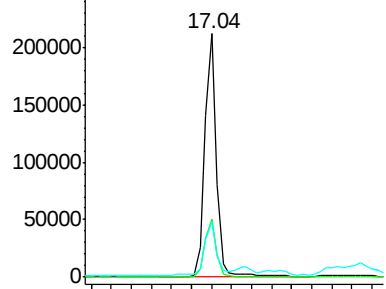
Time-->



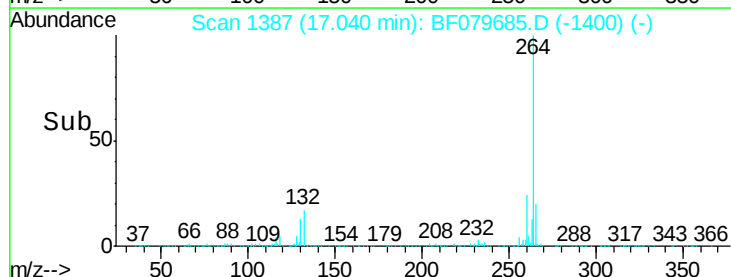
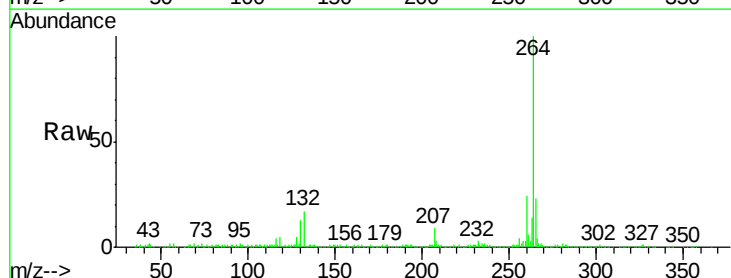
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.04 min Scan# 1387
Delta R.T. -0.45 min
Lab File: BF079685.D
Acq: 4 Jun 2015 3:59

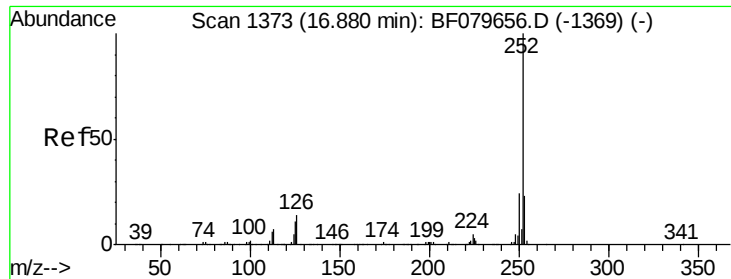
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.8	28.2
265	22.7	17.4	26.0

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time-->





#87

Benzo(b)fluoranthene

Concen: 38.00 ng m

RT: 16.46 min Scan# 1336

Delta R.T. -0.42 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

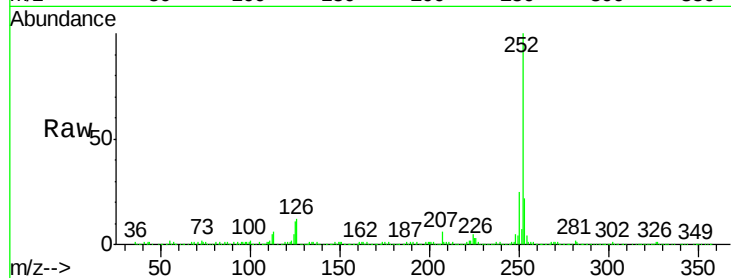
ClientSampled :

SB-15S

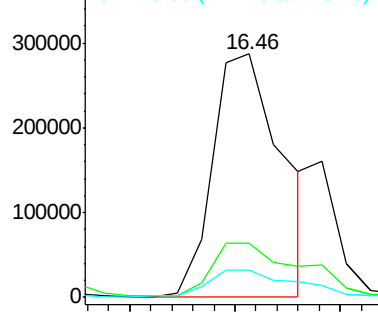
Tot Ion:	252	Resp:	661920
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.0	27.0
125	11.1	8.7	13.1

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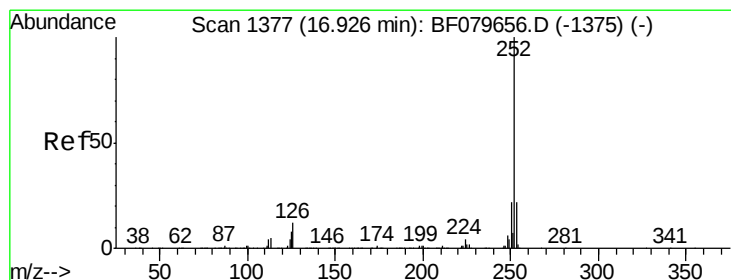
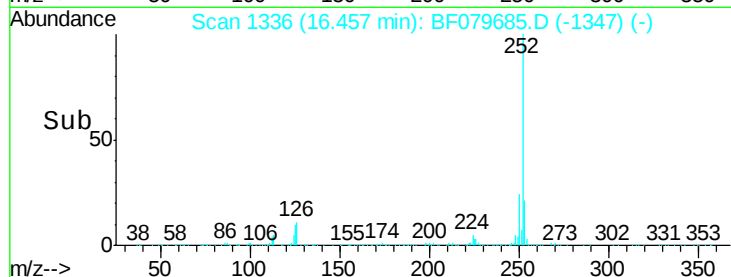
apatel
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->



#88

Benzo(k)fluoranthene

Concen: 7.28 ng m

RT: 16.49 min Scan# 1339

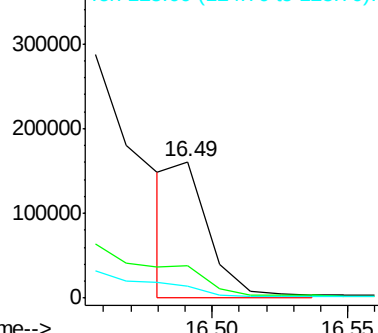
Delta R.T. -0.43 min

Lab File: BF079685.D

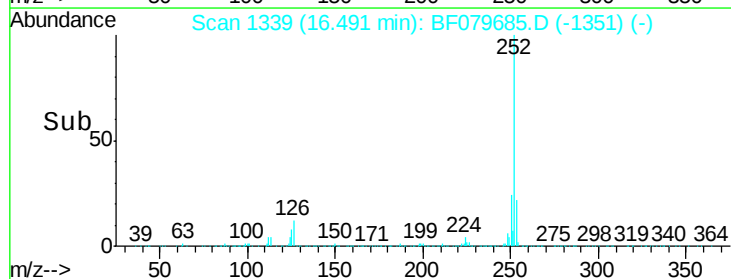
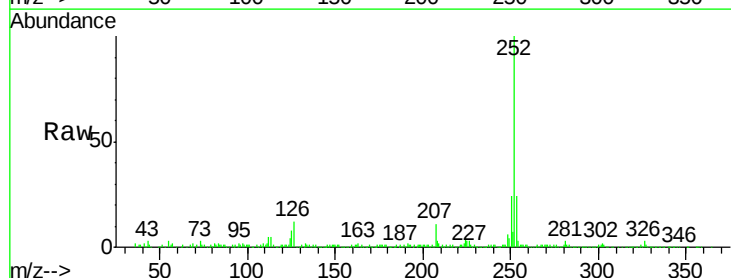
Acq: 4 Jun 2015 3:59

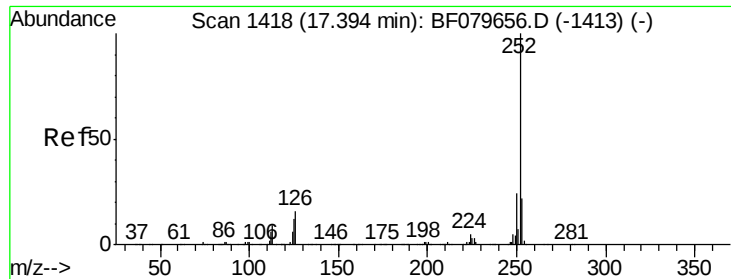
Tgt Ion:	252	Resp:	148515
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.4	26.2
125	8.5	7.1	10.7

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



Time-->





#89

Benzo(a)pyrene

Concen: 26.80 ng

RT: 16.95 min Scan# 1379

Delta R.T. -0.45 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

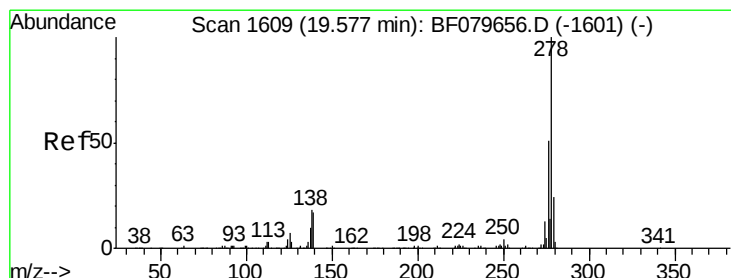
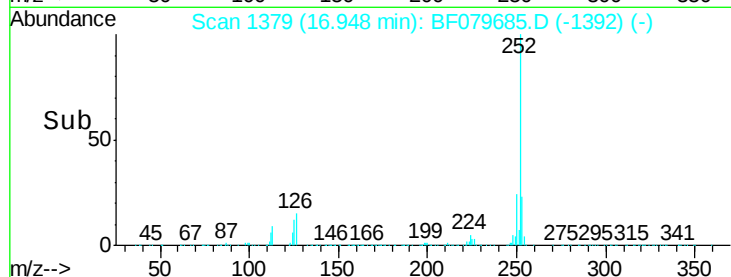
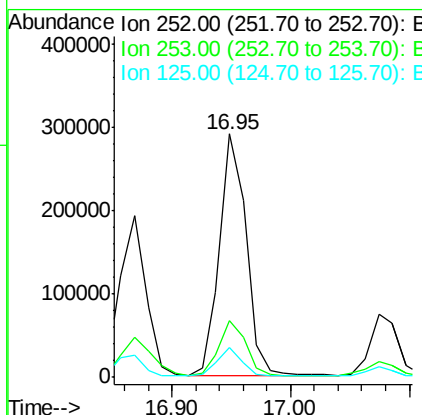
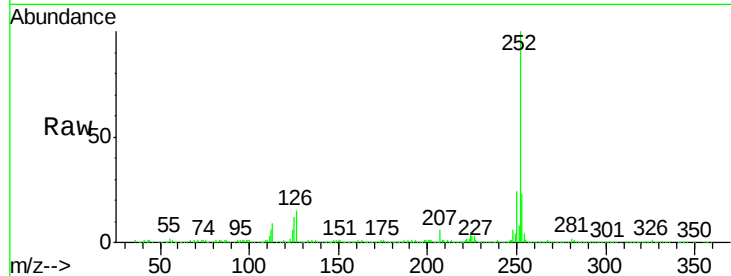
ClientSampleId :

SB-15S

Tot Ion:	252	Resp:	456481
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.9	26.9
125	12.0	9.4	14.0

Manual Integrations
APPROVED

apatel
6/5/2015 8:10:08 AM



#90

Dibenzo(a,h)anthracene

Concen: 3.94 ng

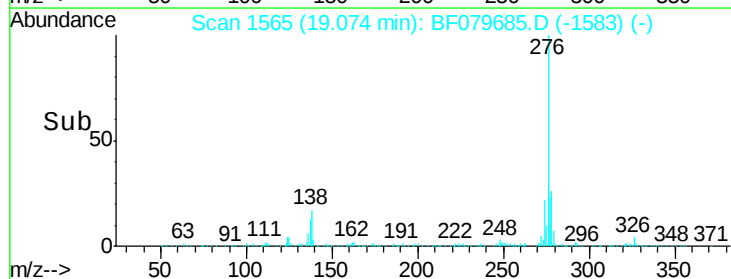
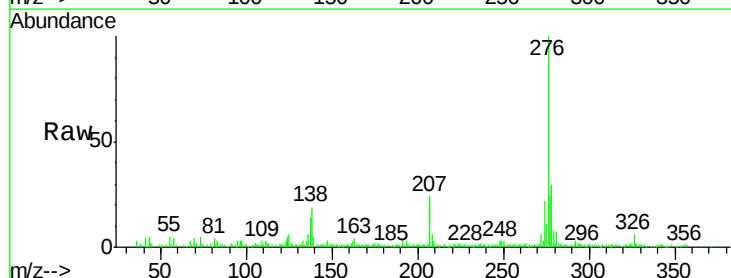
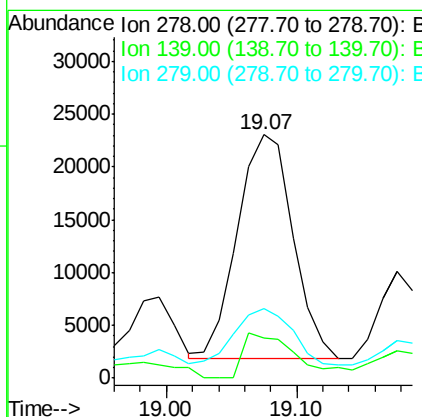
RT: 19.07 min Scan# 1565

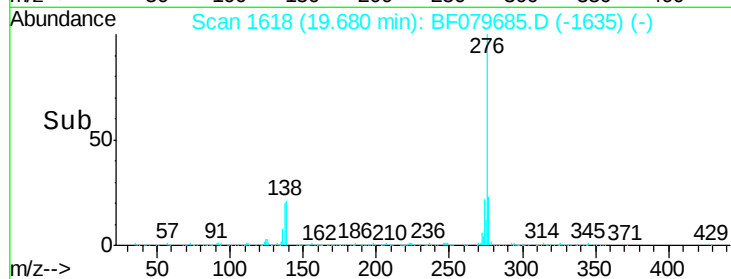
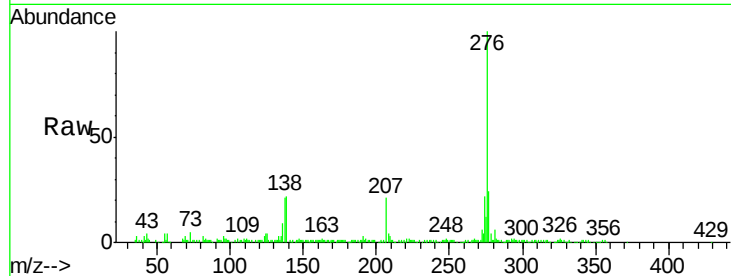
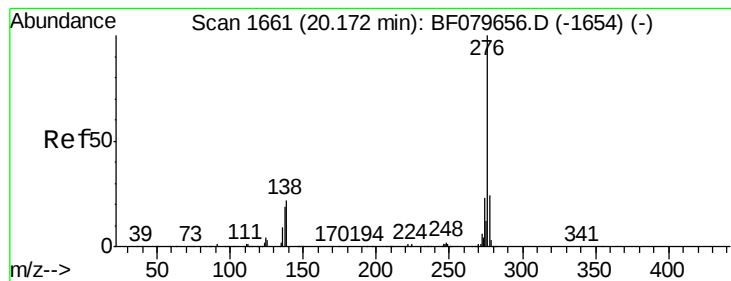
Delta R.T. -0.50 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Tgt Ion:	278	Resp:	62812
Ion Ratio	Lower	Upper	
278	100		
139	16.5	13.7	20.5
279	28.5	19.6	29.4





#91

Benzo(a,h,i)perylene

Concen: 14.53 ng

RT: 19.68 min Scan# 1618

Delta R.T. -0.49 min

Lab File: BF079685.D

Acq: 4 Jun 2015 3:59

Instrument :

BNA_F

ClientSampleId :

SB-15S

Tot Ion:	276	Resp:	246024
Ion Ratio	Lower	Upper	
276	100		
277	24.4	19.1	28.7
138	22.3	17.4	26.0

Manual Integrations
APPROVED

apatel
6/5/2015 8:10:08 AM

