

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030415\
 Data File : BF077604.D
 Acq On : 5 Mar 2015 4:30
 Operator : TP/IZ
 Sample : G1424-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB18

Manual Integrations
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 3/5/2015 12:57:53 PM

Quant Time: Mar 05 06:16:36 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 04 21:51:23 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.22	152	70436	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	275529	20.00	ng	0.00
38) Acenaphthene-d10	10.97	164	138618	20.00	ng	0.00
63) Phenanthrene-d10	12.81	188	261720	20.00	ng	0.00
75) Chrysene-d12	16.10	240	290242	20.00	ng	0.00
86) Perylene-d12	17.78	264	292555	20.00	ng	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	465504	110.33	ng	0.00
7) Phenol-d6	6.79	99	557247	102.72	ng	0.00
23) Nitrobenzene-d5	7.91	82	359715	81.19	ng	0.00
41) 2,4,6-Tribromophenol	11.95	330	144985	108.63	ng	0.00
44) 2-Fluorobiphenyl	10.15	172	638024	71.77	ng	0.00
78) Terphenyl-d14	14.81	244	727252	58.58	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.82	128	43819	3.18	ng	98
48) Acenaphthylene	10.80	152	119943	9.20	ng	99
49) Dimethylphthalate	10.65	163	52023	5.34	ng	100
51) Acenaphthene	11.01	154	18049	2.32	ng	98
57) Fluorene	11.65	166	22356m	2.33	ng	
70) Phenanthrene	12.84	178	388513	25.61	ng	100
71) Anthracene	12.90	178	132831	8.82	ng	99
72) Carbazole	13.11	167	35525	2.48	ng	98
74) Fluoranthene	14.32	202	712821	43.02	ng	98
77) Pyrene	14.60	202	764421	43.06	ng	100
80) Benzo(a)anthracene	16.08	228	473833	27.86	ng	96
82) Chrysene	16.12	228	431158	26.99	ng	98
85) Indeno(1,2,3-cd)pyrene	19.20	276	330804m	18.16	ng	
87) Benzo(b)fluoranthene	17.36	252	641999m	37.74	ng	
88) Benzo(k)fluoranthene	17.38	252	192436m	11.54	ng	
89) Benzo(a)pyrene	17.72	252	484245	29.89	ng	# 94
90) Dibenzo(a,h)anthracene	19.22	278	80150	5.19	ng	# 94
91) Benzo(g,h,i)perylene	19.62	276	328829	21.08	ng	98

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

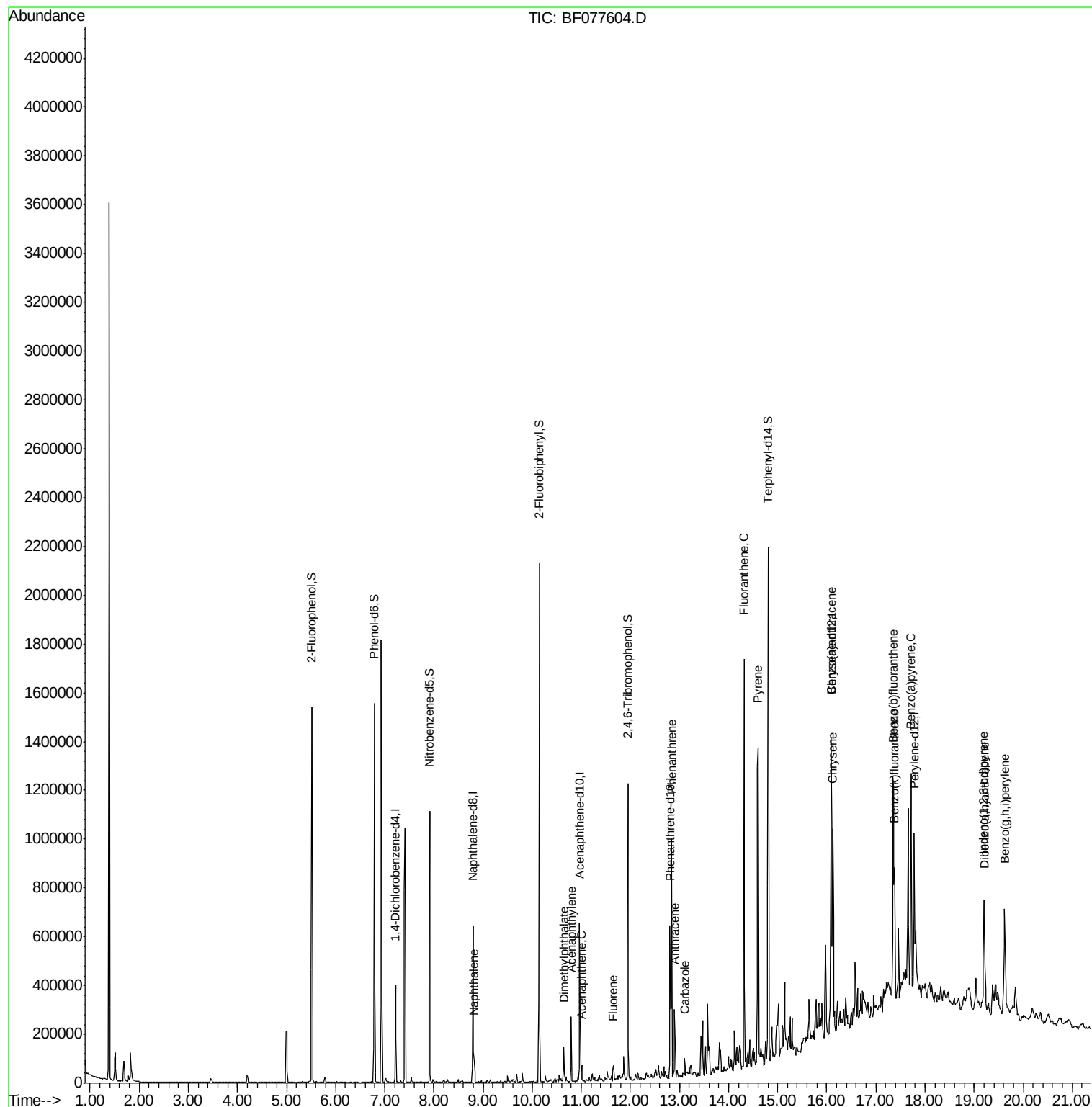
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030415\
Data File : BF077604.D
Acq On : 5 Mar 2015 4:30
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Misc :
ALS Vial : 23 Sample Multiplier: 1

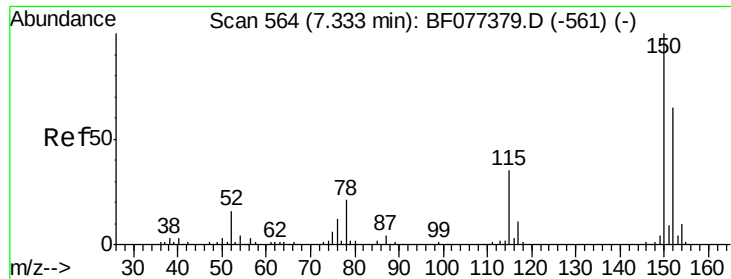
Instrument :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

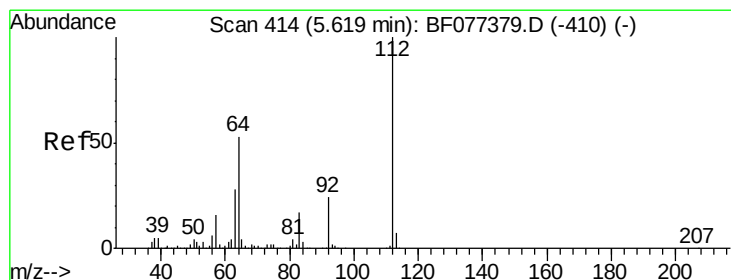
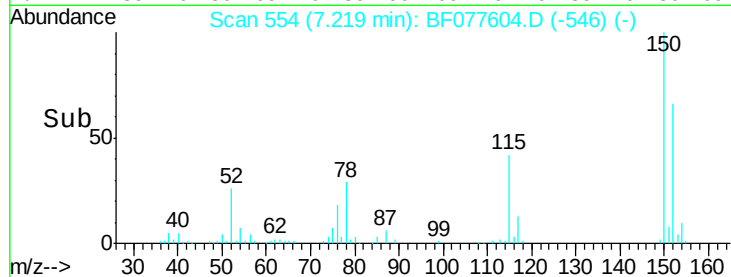
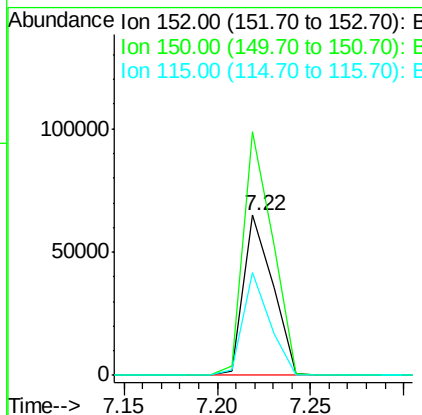
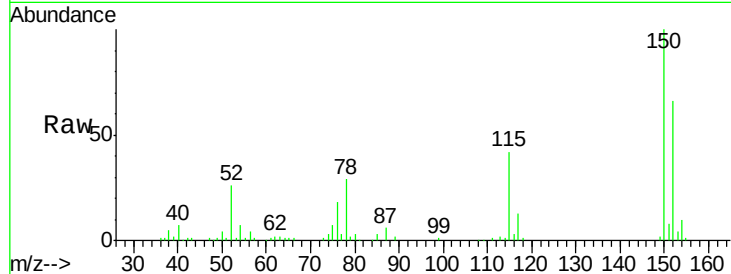
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.22 min Scan# 554
Delta R.T. -0.00 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Instrument :
BNA_F
ClientSampleId :
SB18

Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.9	124.0	186.0
115	63.8	49.4	74.2

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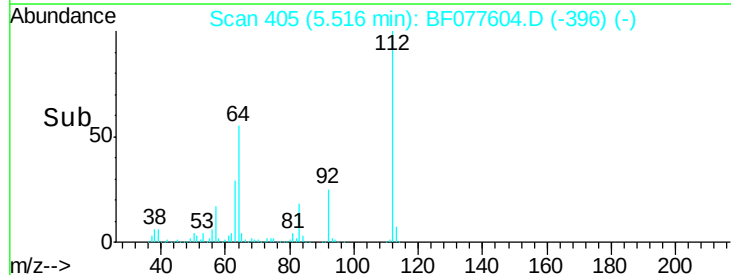
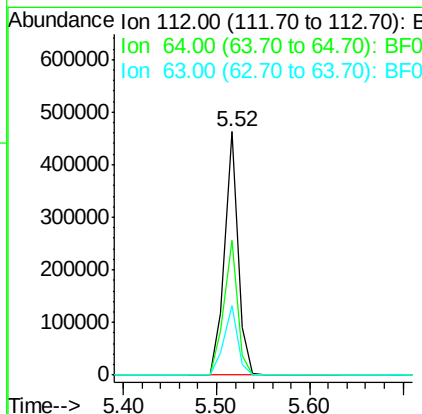
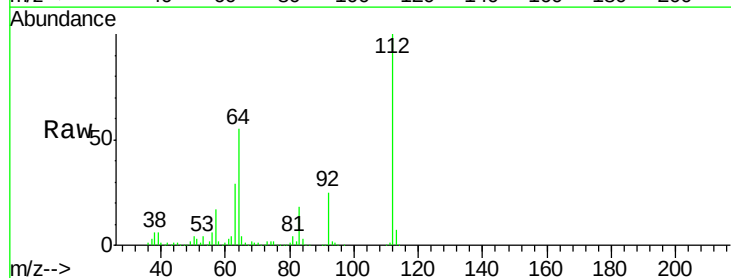
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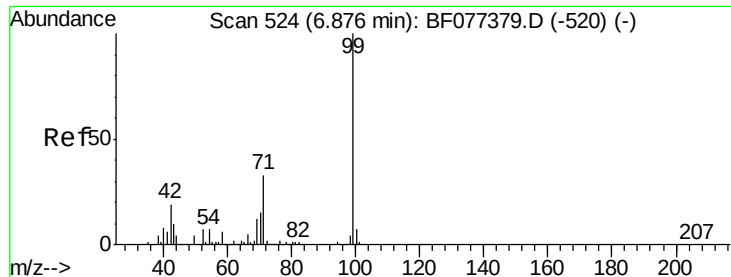


#5

2-Fluorophenol
Concen: 110.33 ng
RT: 5.52 min Scan# 405
Delta R.T. 0.00 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	48.5	72.7
63	28.6	25.0	37.4





#7

Phenol-d6

Concen: 102.72 ng

RT: 6.79 min Scan# 516

Delta R.T. 0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA_F

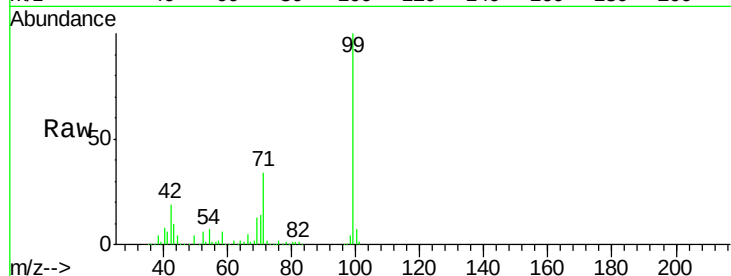
ClientSampleId :

SB18

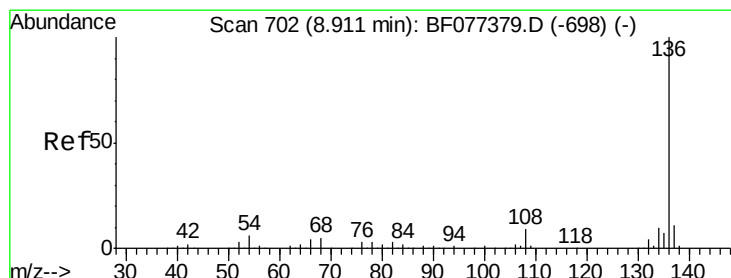
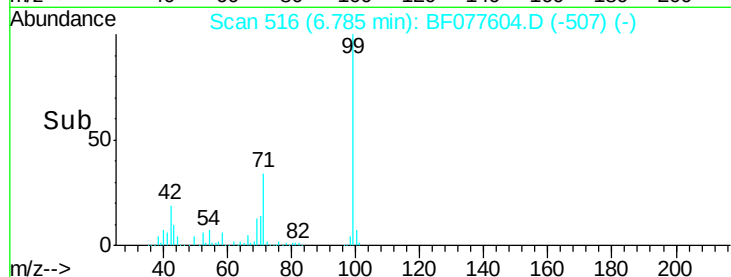
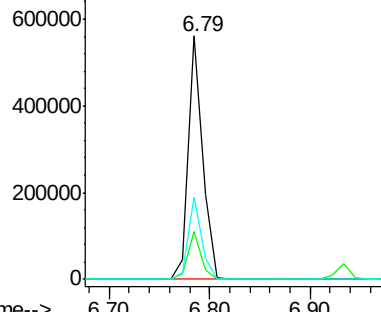
Tgt Ion:	99	Resp:	557247
Ion Ratio	Lower	Upper	
99	100		
42	19.4	16.2	24.4
71	33.9	26.7	40.1

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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

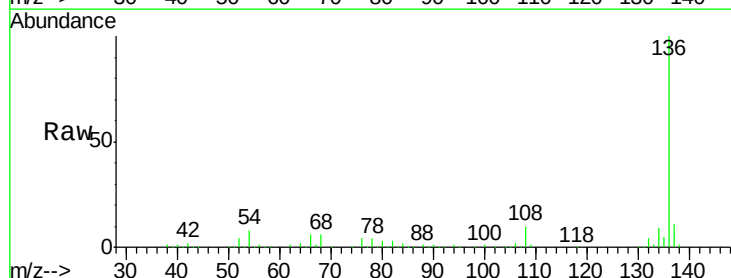
RT: 8.80 min Scan# 692

Delta R.T. -0.00 min

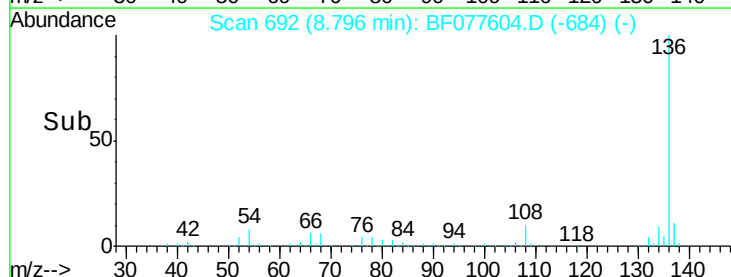
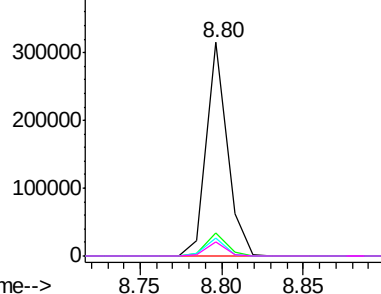
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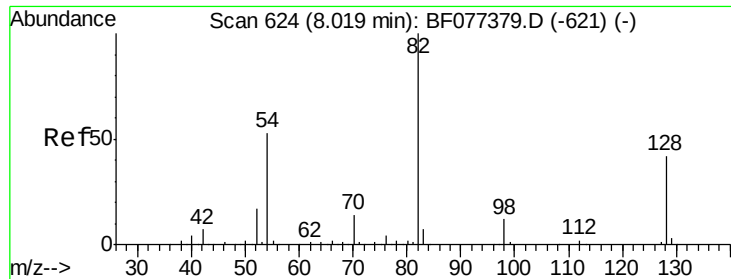
Acq: 5 Mar 2015 4:30

Tgt Ion:	136	Resp:	275529
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.6	13.0
54	8.1	6.2	9.4
68	6.5	5.0	7.6



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





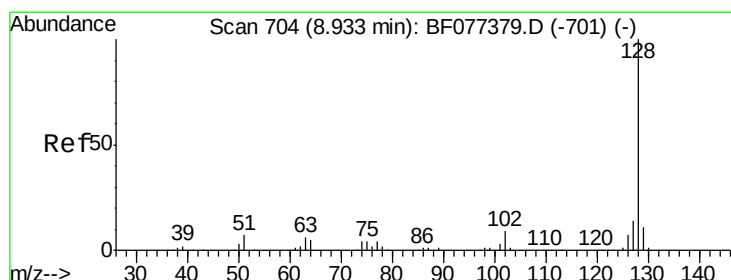
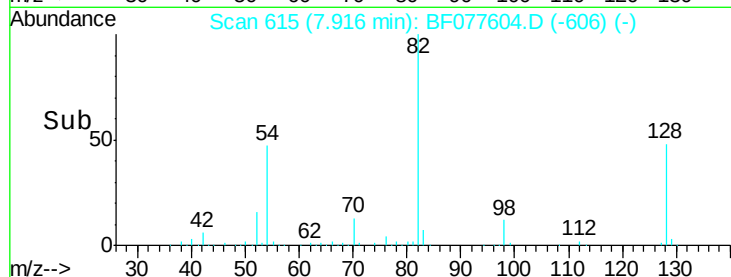
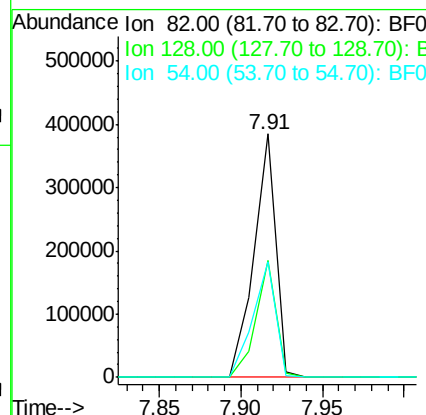
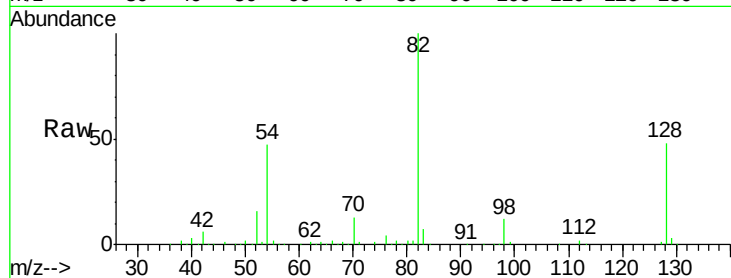
#23
 Nitrobenzene-d5
 Concen: 81.19 ng
 RT: 7.91 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: BF077604.D
 Acq: 5 Mar 2015 4:30

Instrument :
 BNA_F
 ClientSampled :
 SB18

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	359715		
128	47.9	43.8	65.8	
54	47.4	36.7	55.1	

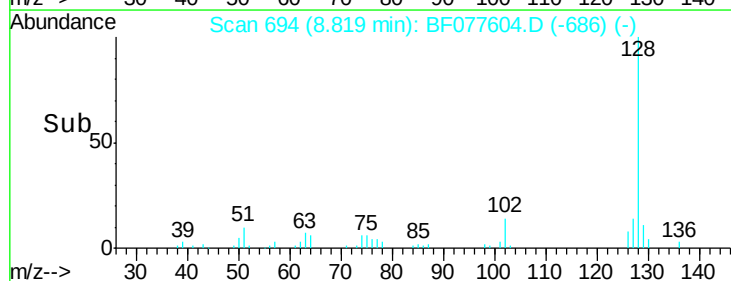
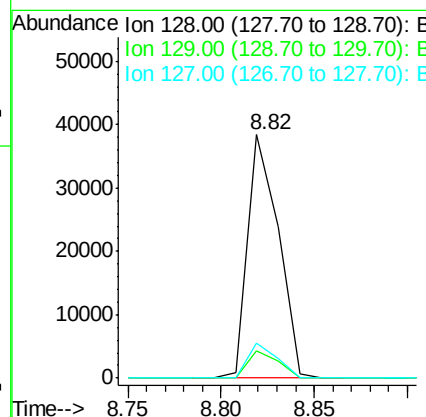
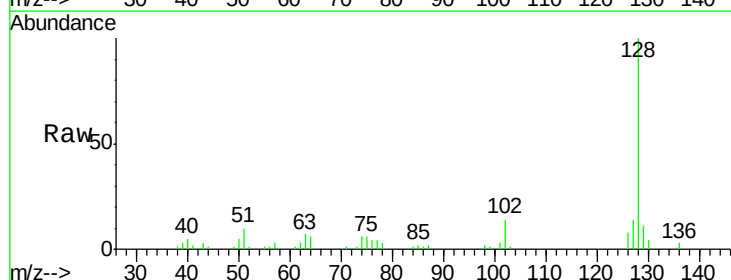
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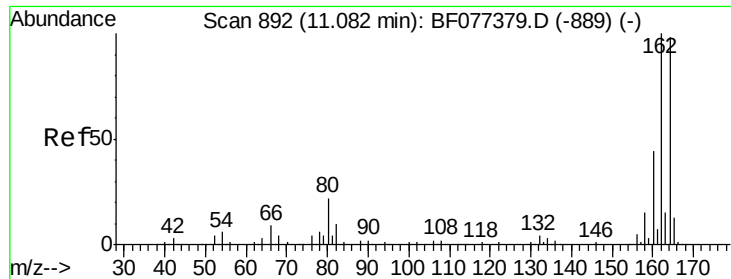
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#31
 Naphthalene
 Concen: 3.18 ng
 RT: 8.82 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: BF077604.D
 Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	43819		
129	11.3	9.4	14.0	
127	14.1	10.6	15.8	





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.97 min Scan# 882

Delta R.T. -0.00 min

Lab File: BF077604.D

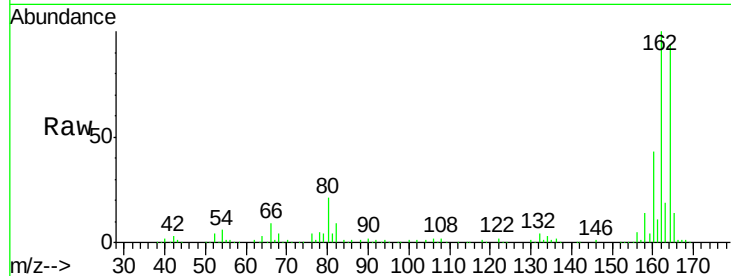
Acq: 5 Mar 2015 4:30

Instrument :

BNA_F

ClientSampleId :

SB18



Tgt Ion:164 Resp: 138618

Ion Ratio Lower Upper

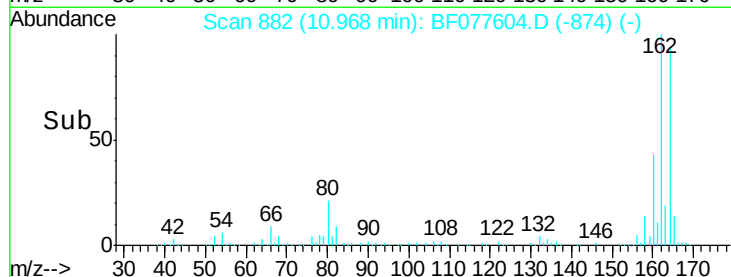
164 100

162 106.3 83.2 124.8

160 45.7 34.6 52.0

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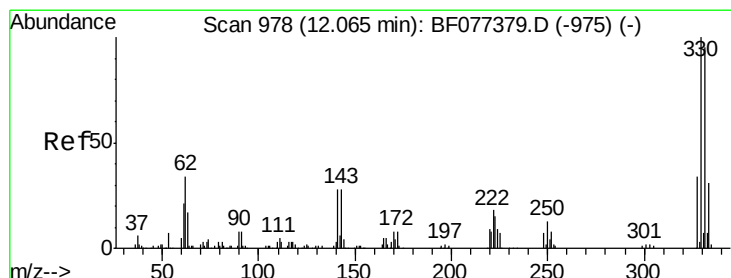
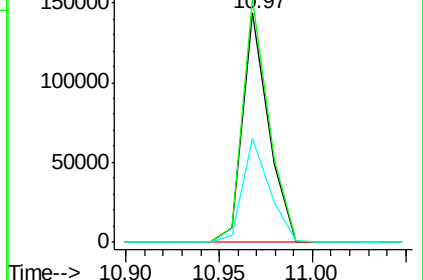
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 108.63 ng

RT: 11.95 min Scan# 968

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

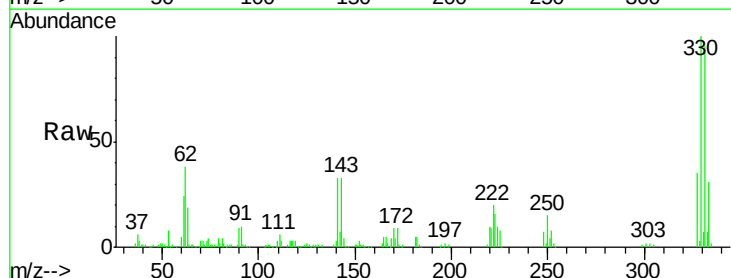
Tgt Ion:330 Resp: 144985

Ion Ratio Lower Upper

330 100

332 95.1 77.4 116.2

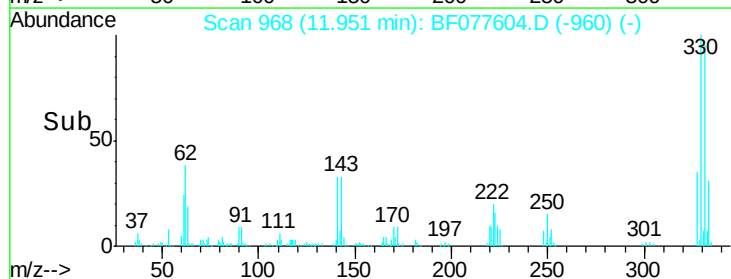
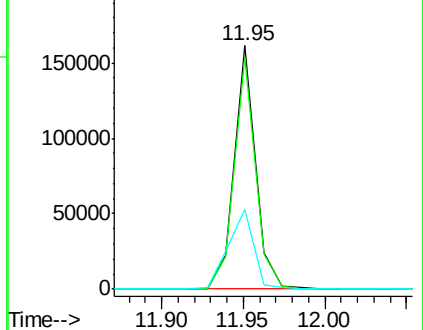
141 40.1 28.8 43.2

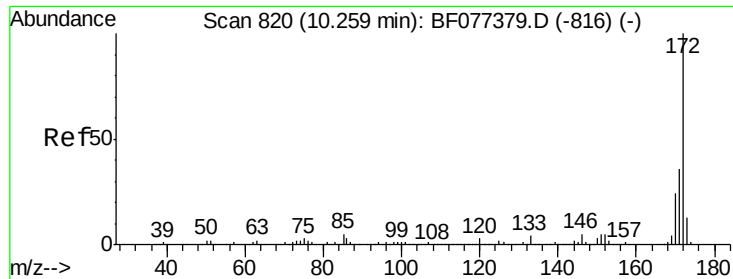


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





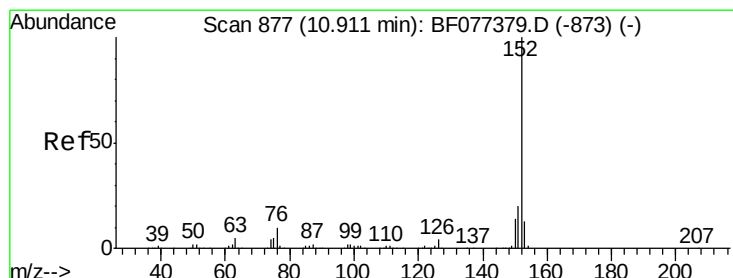
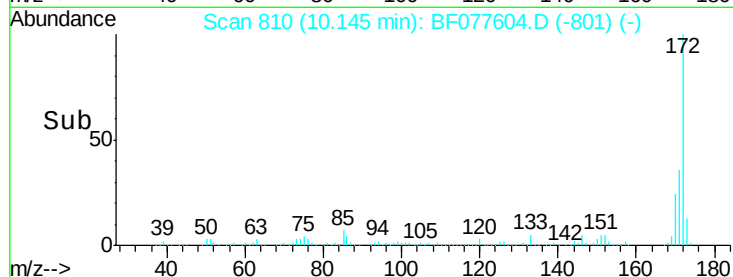
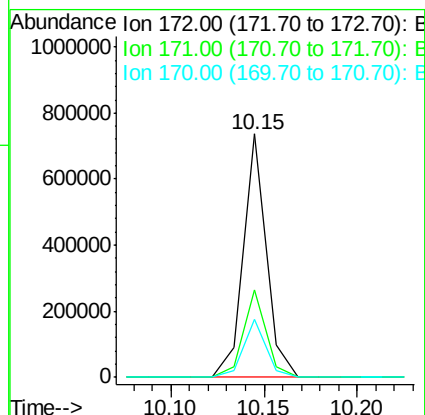
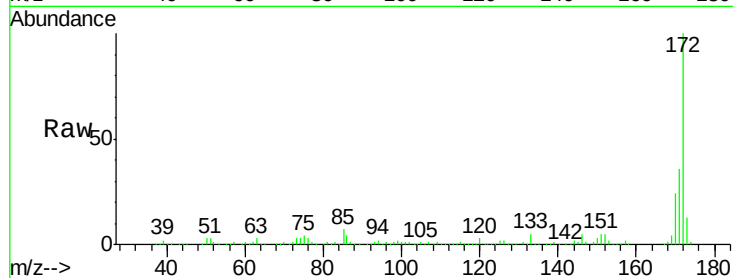
#44
2-Fluorobiphenyl
Concen: 71.77 ng
RT: 10.15 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Instrument :
BNA_F
ClientSampleId :
SB18

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	36.0	28.9	43.3
170	23.6	19.4	29.2

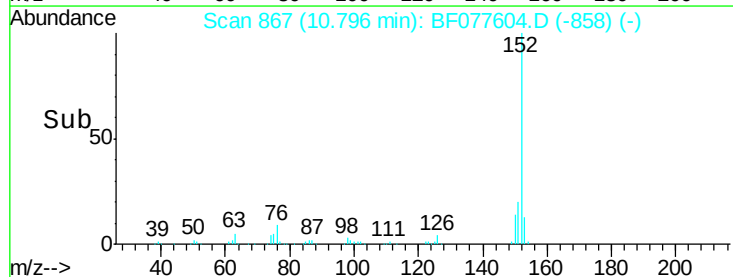
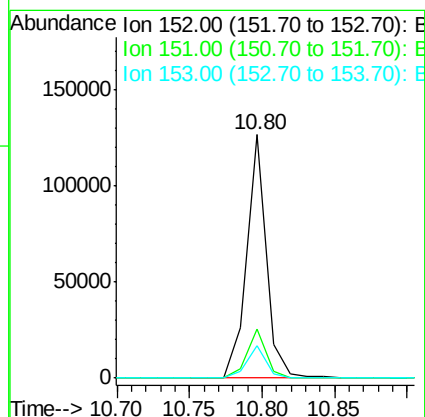
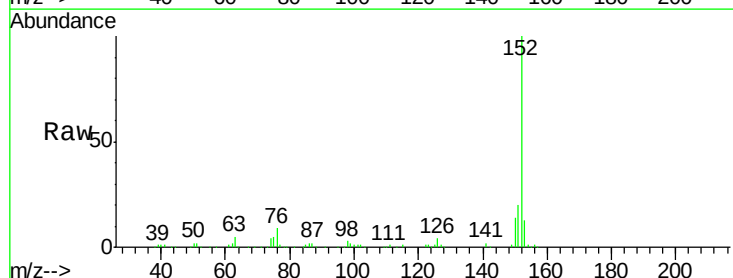
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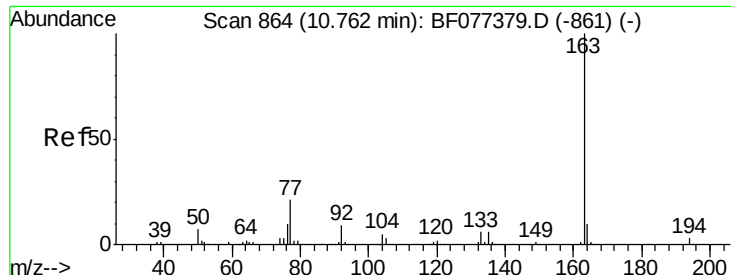
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#48
Acenaphthylene
Concen: 9.20 ng
RT: 10.80 min Scan# 867
Delta R.T. -0.00 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
152	100		
151	19.9	16.1	24.1
153	13.1	10.9	16.3





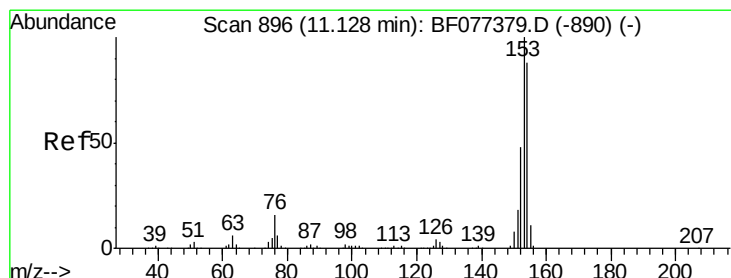
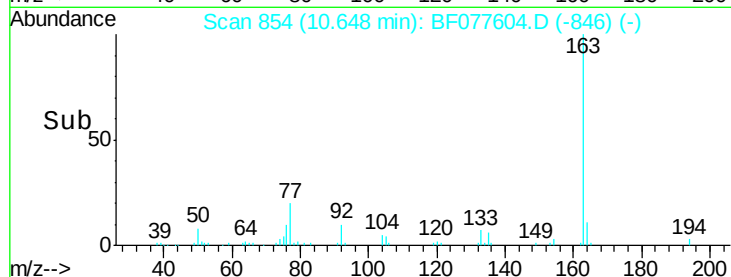
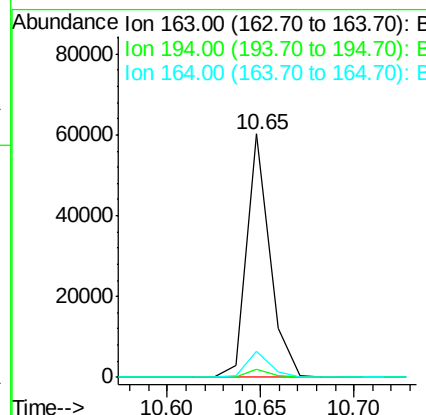
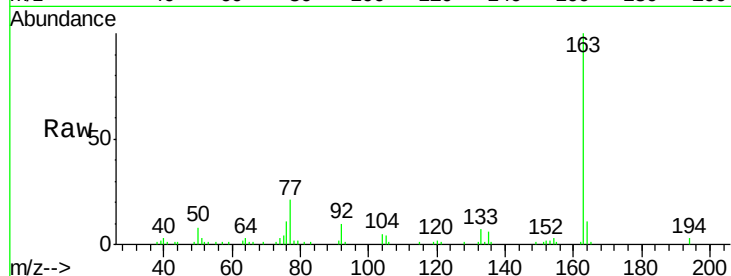
#49
Dimethylphthalate
Concen: 5.34 ng
RT: 10.65 min Scan# 854
Delta R.T. -0.01 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Instrument :
BNA_F
ClientSampleId :
SB18

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.4	2.6	4.0
164	10.7	8.6	13.0

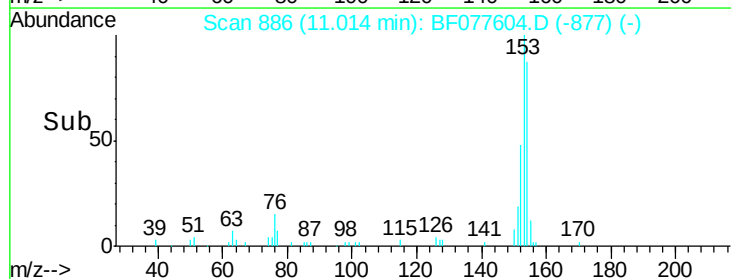
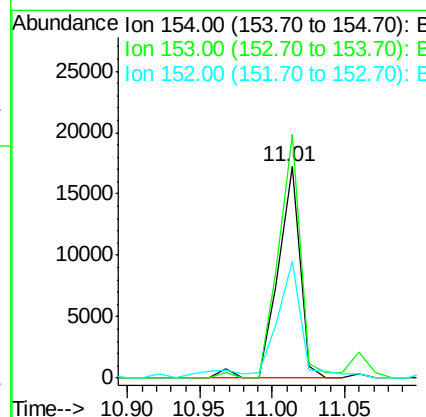
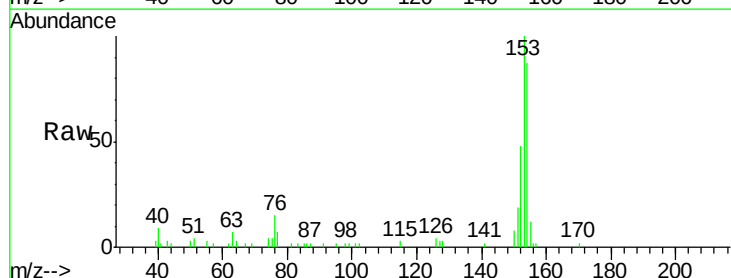
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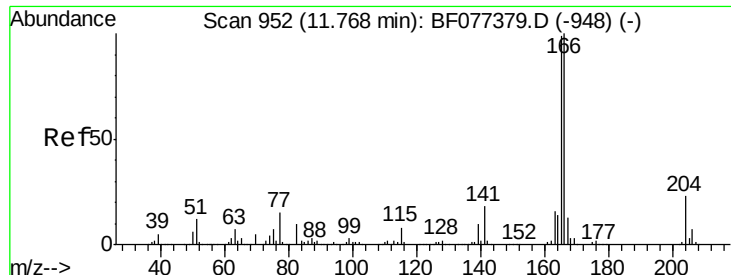
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#51
Acenaphthene
Concen: 2.32 ng
RT: 11.01 min Scan# 886
Delta R.T. -0.00 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	115.3	90.5	135.7
152	55.6	43.5	65.3





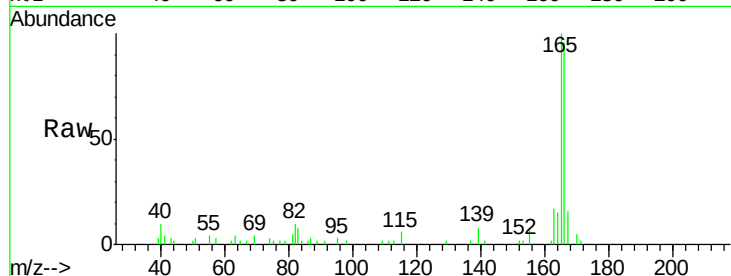
#57
 Fluorene
 Concen: 2.33 ng m
 RT: 11.65 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: BF077604.D
 Acq: 5 Mar 2015 4:30

Instrument :
 BNA_F
 ClientSampleId :
 SB18

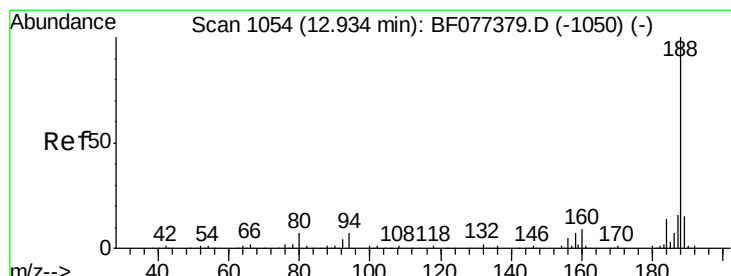
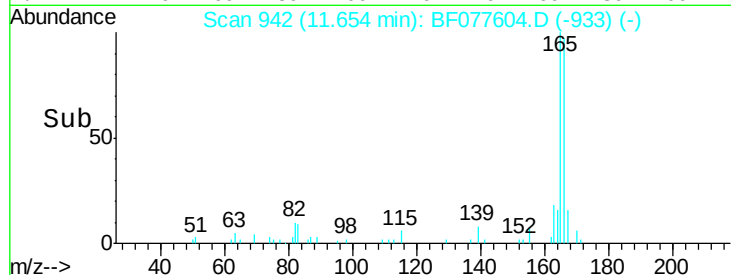
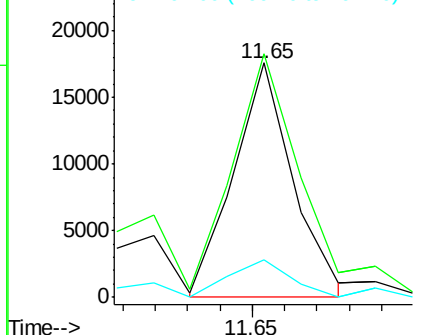
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	22356		
165	104.0	77.6	116.4	
167	16.1	10.6	16.0#	

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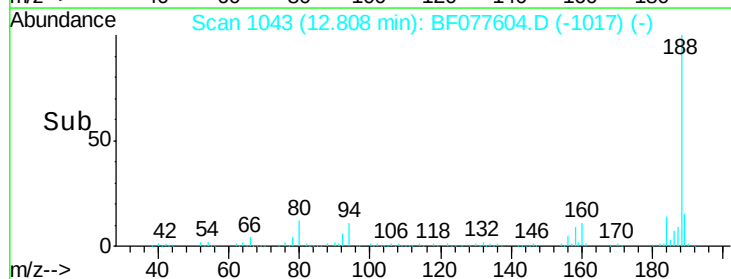
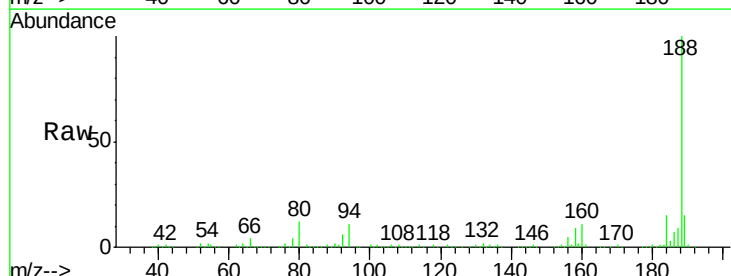
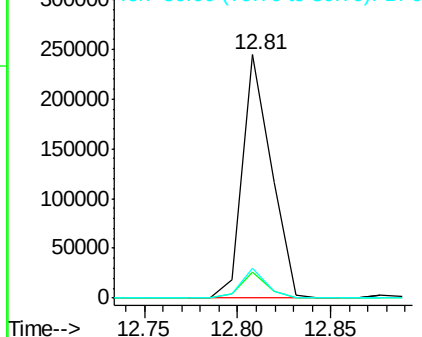
Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

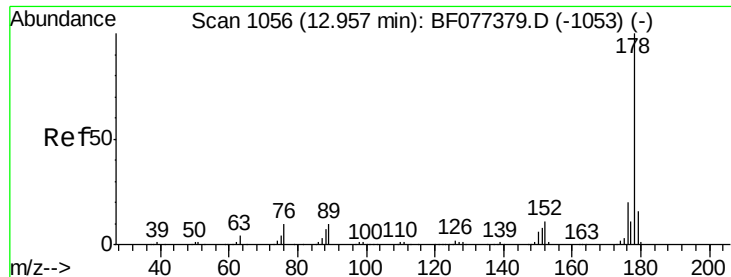


#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.81 min Scan# 1043
 Delta R.T. -0.00 min
 Lab File: BF077604.D
 Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	261720		
94	10.9	7.4	11.2	
80	12.2	8.0	12.0#	

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: 25.61 ng

RT: 12.84 min Scan# 1046

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA_F

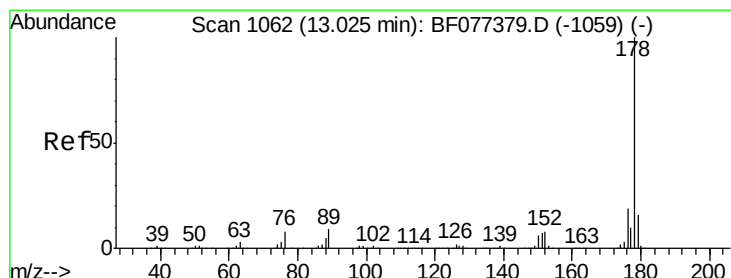
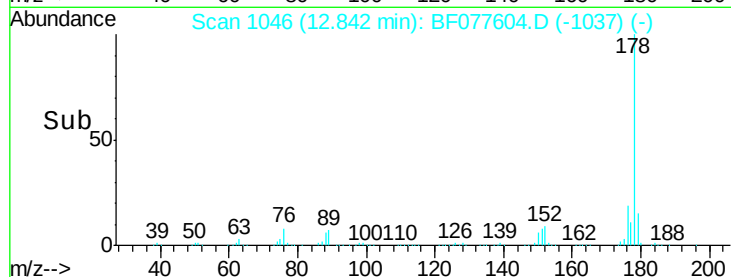
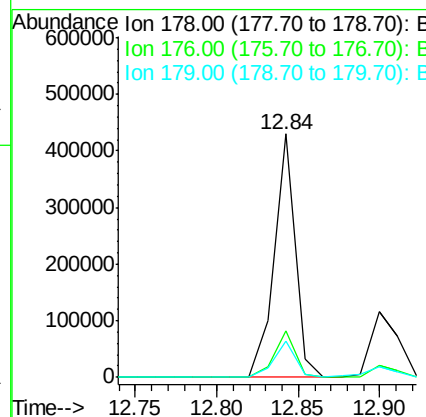
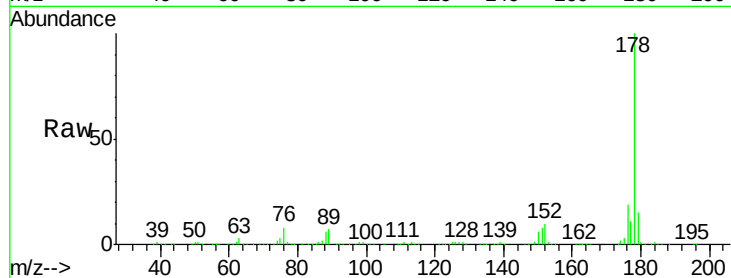
ClientSampled :

SB18

Tgt Ion:	178	Resp:	388513
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.5	23.3
179	15.1	12.2	18.2

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#71

Anthracene

Concen: 8.82 ng

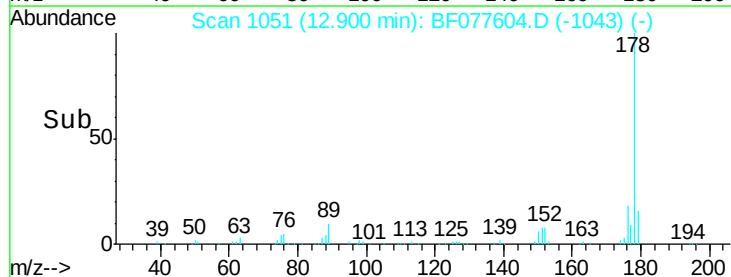
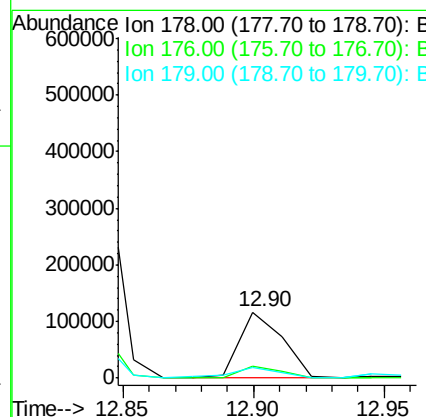
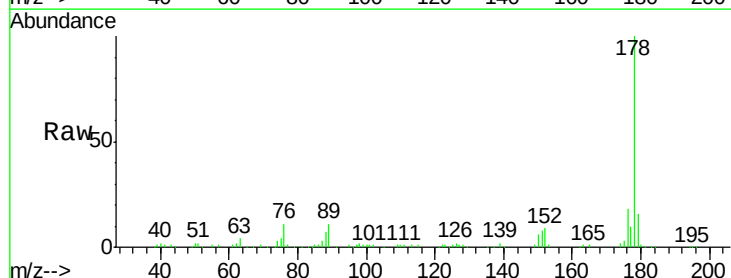
RT: 12.90 min Scan# 1051

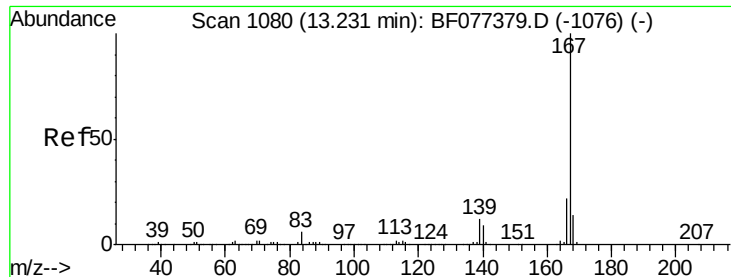
Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Tgt Ion:	178	Resp:	132831
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.4	23.0
179	15.9	12.9	19.3





#72

Carbazole

Concen: 2.48 ng

RT: 13.11 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA_F

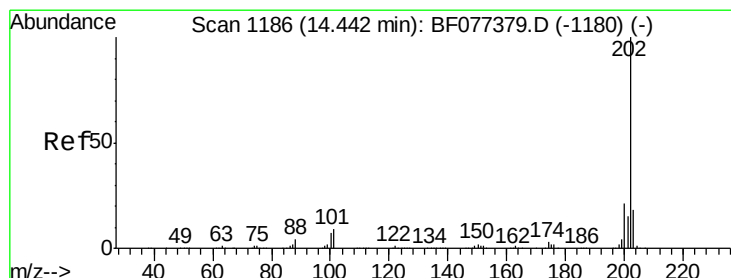
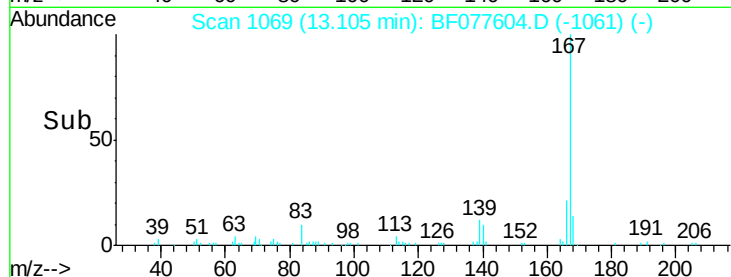
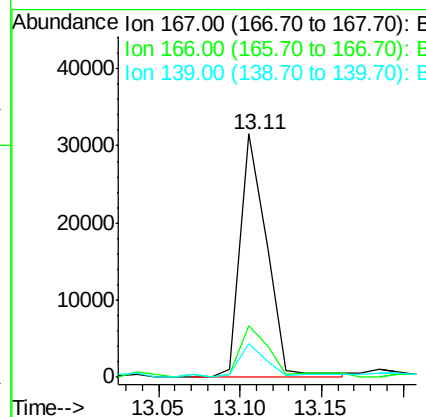
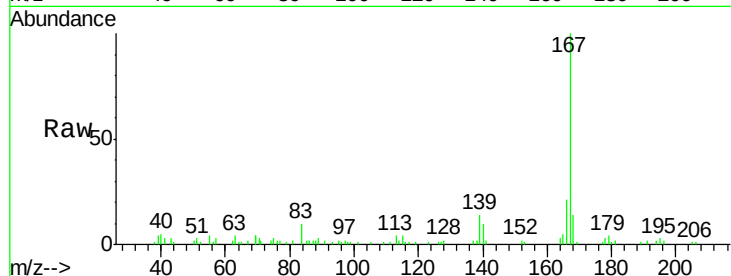
ClientSampleId :

SB18

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.6	26.4
139	13.6	9.9	14.9

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#74

Fluoranthene

Concen: 43.02 ng

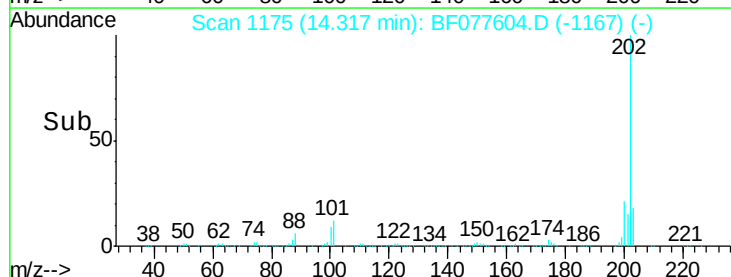
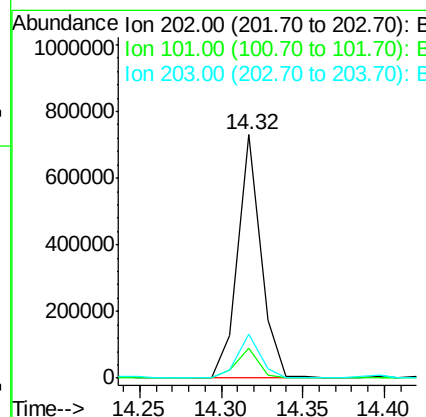
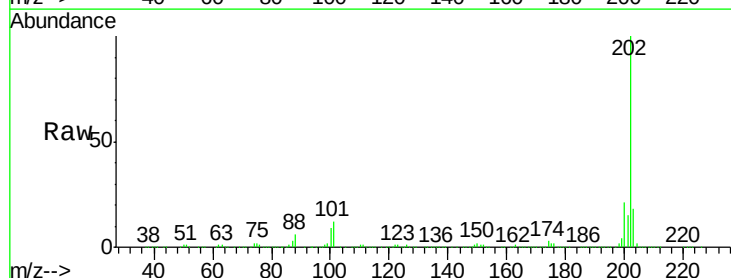
RT: 14.32 min Scan# 1175

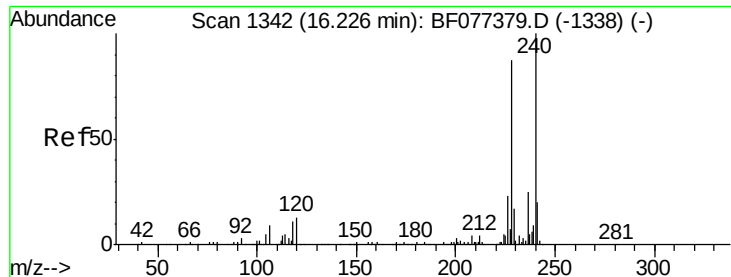
Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	30.8
203	18.3	0.0	37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.10 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA_F

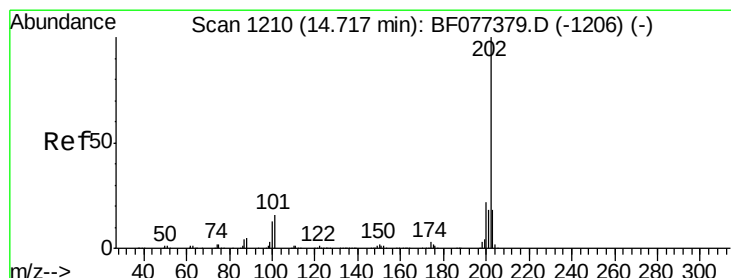
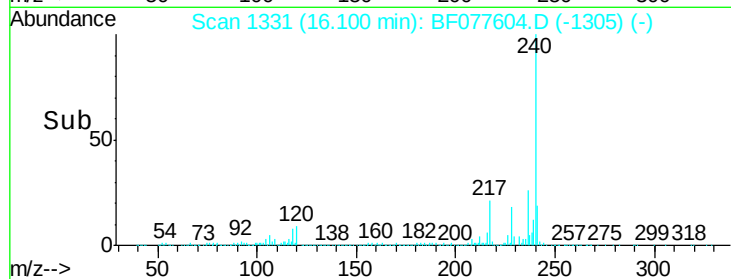
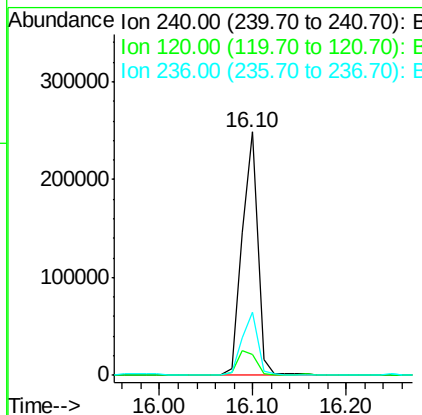
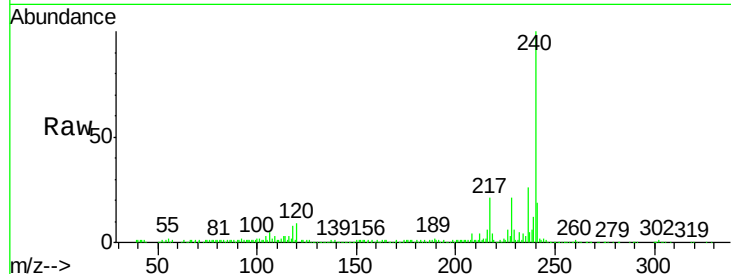
ClientSampleId :

SB18

Tgt Ion:	240	Resp:	290242
Ion Ratio	Lower	Upper	
240	100		
120	8.8	8.8	13.2
236	25.8	20.7	31.1

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#77

Pyrene

Concen: 43.06 ng

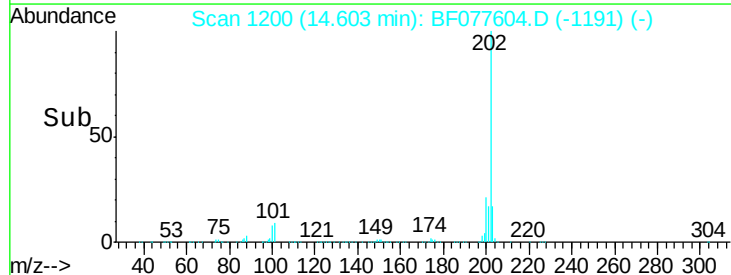
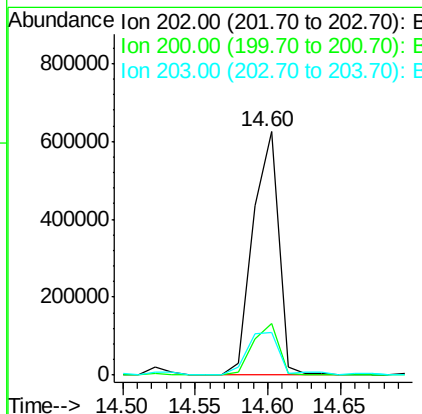
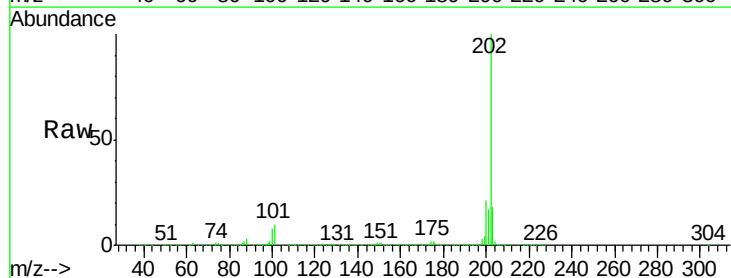
RT: 14.60 min Scan# 1200

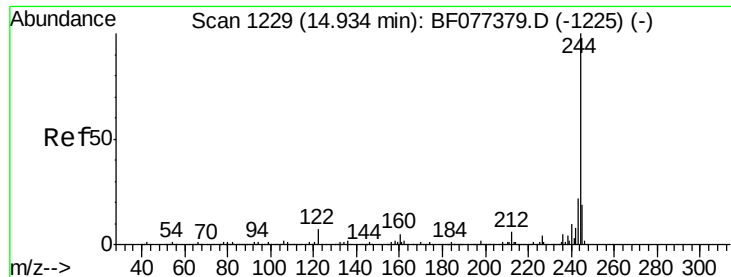
Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Tgt Ion:	202	Resp:	764421
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.1	25.7
203	17.7	14.2	21.2





#78

Terphenyl-d14

Concen: 58.58 ng

RT: 14.81 min Scan# 1218

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA_F

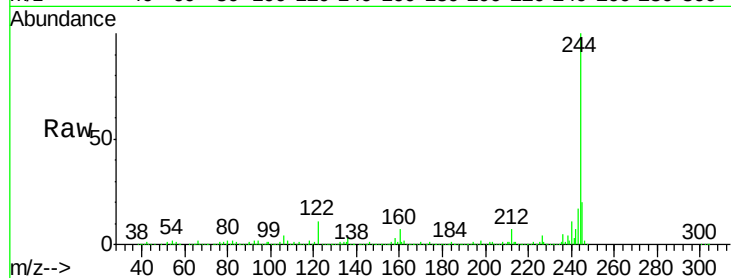
ClientSampleId :

SB18

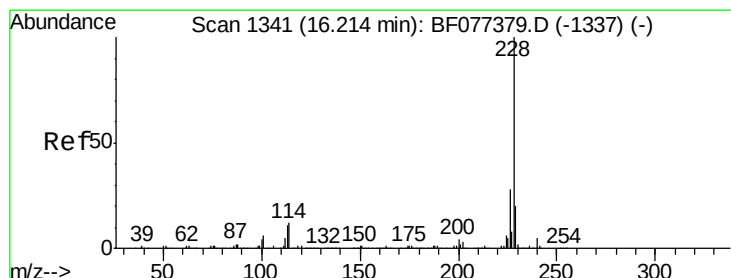
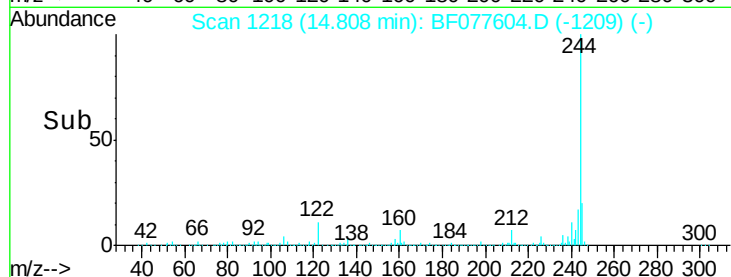
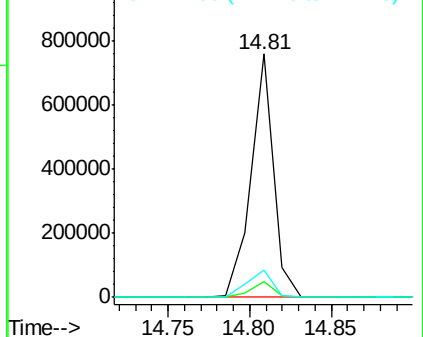
Tgt	Ion:244	Resp:	727252
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.2	7.8
122	11.1	7.8	11.8

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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: 27.86 ng

RT: 16.08 min Scan# 1330

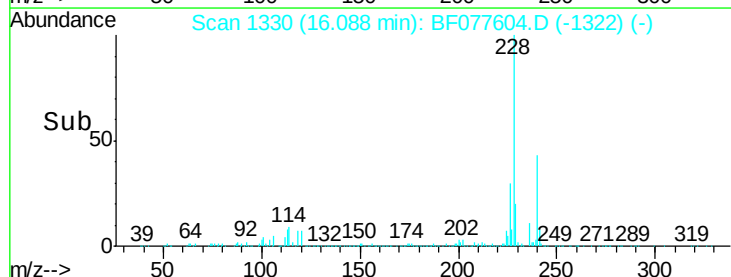
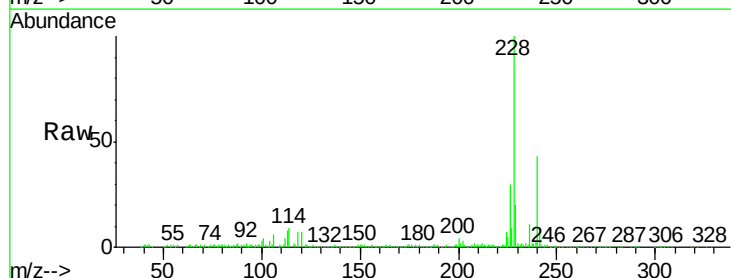
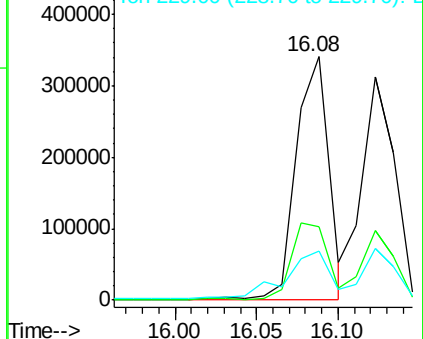
Delta R.T. -0.01 min

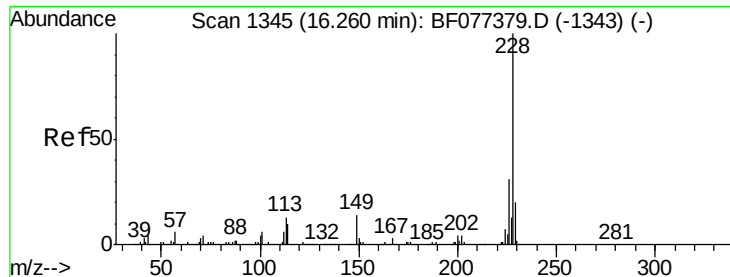
Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Tgt	Ion:228	Resp:	473833
Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.0	33.0
229	20.4	15.8	23.8

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





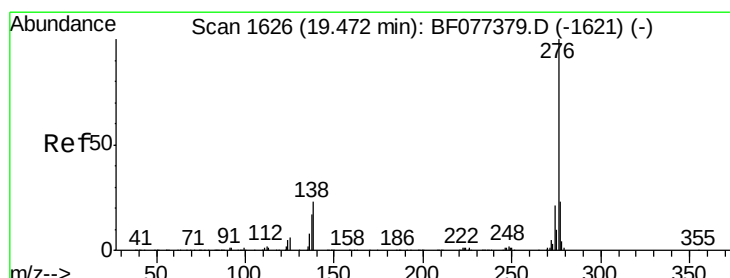
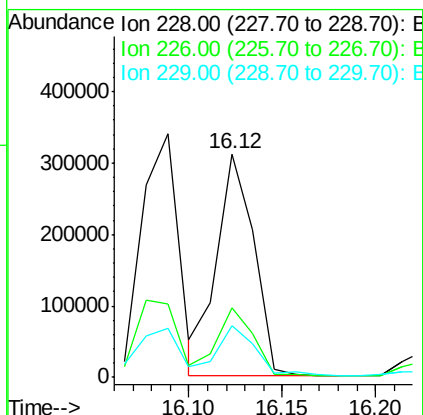
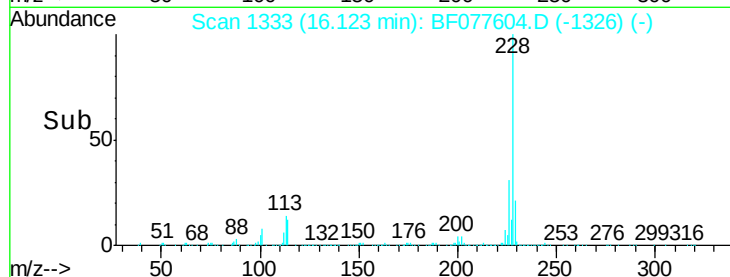
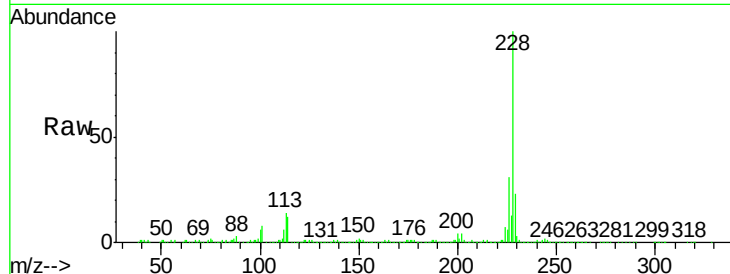
#82
Chrysene
Concen: 26.99 ng
RT: 16.12 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Instrument :
BNA_F
ClientSampleId :
SB18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.9	37.3
229	22.9	16.4	24.6

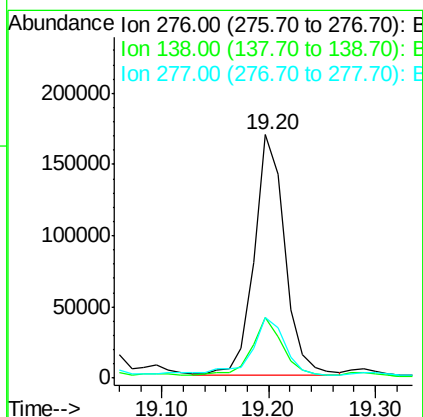
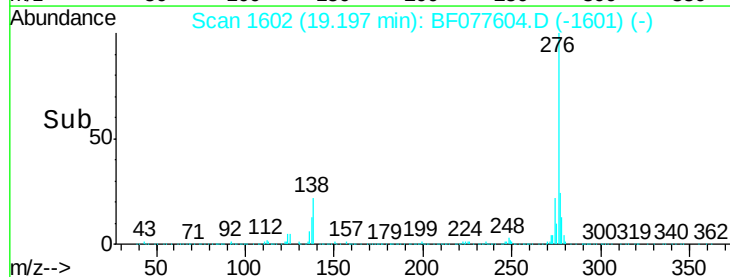
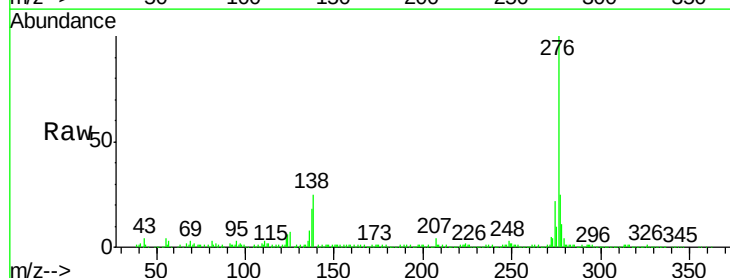
Manual Integrations
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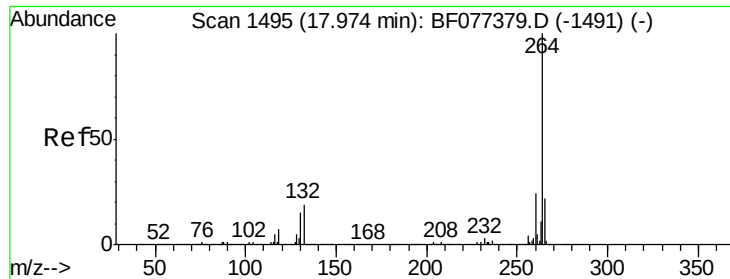
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 18.16 ng m
RT: 19.20 min Scan# 1602
Delta R.T. -0.09 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	1.6	21.2	31.8#
277	1.8	20.0	30.0#





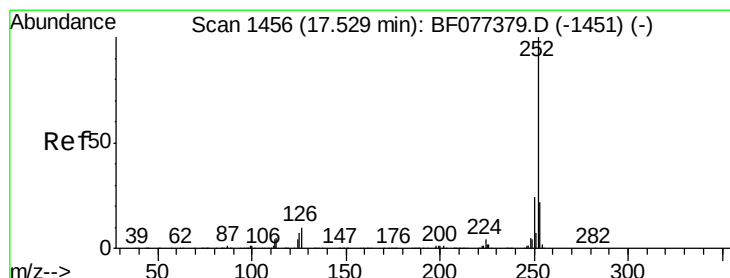
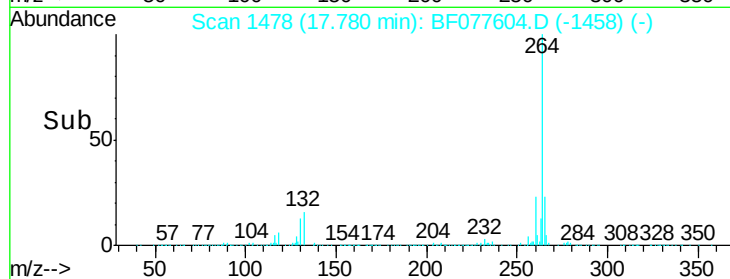
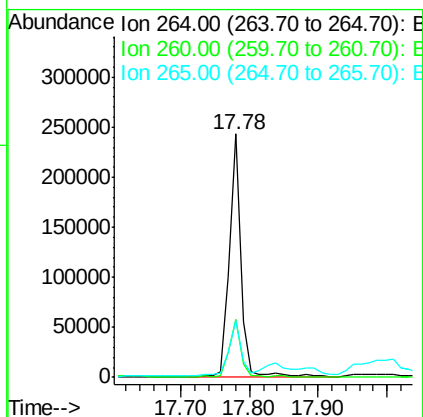
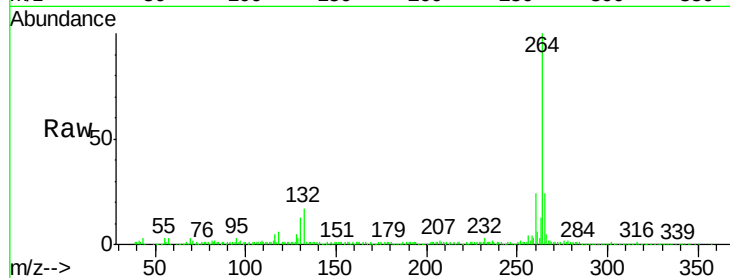
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.78 min Scan# 1478
Delta R.T. -0.07 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Instrument :
BNA_F
ClientSampleId :
SB18

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	292555		
260	23.8	19.3	28.9	
265	23.6	16.8	25.2	

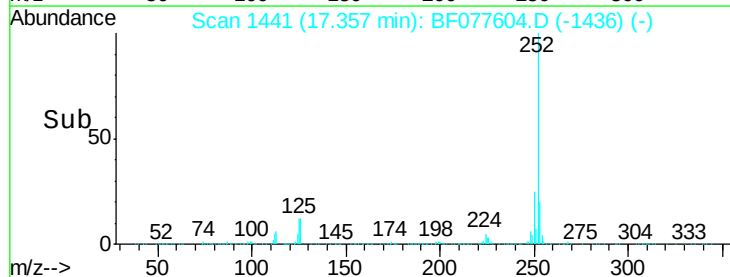
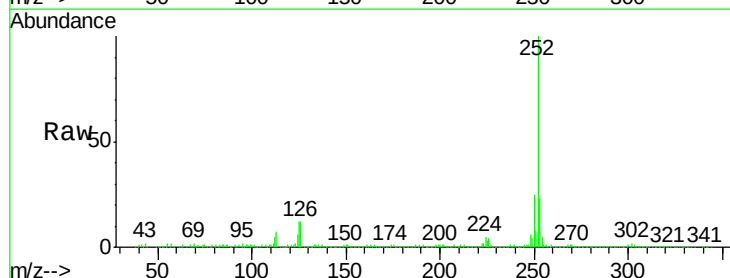
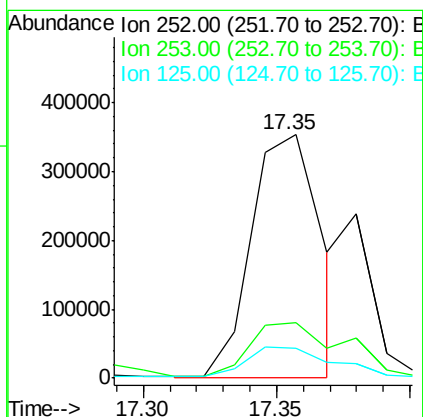
Manual Integrations
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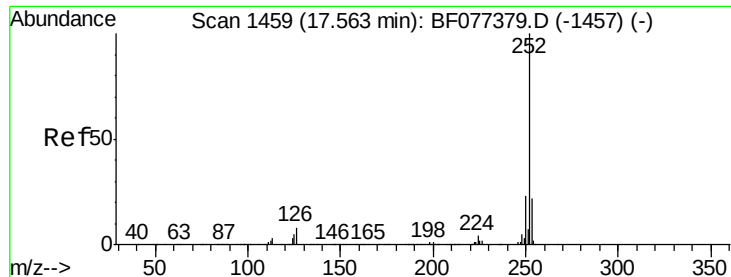
mohammad
3/5/2015 12:57:53 PM



#87
Benzo(b)fluoranthene
Concen: 37.74 ng m
RT: 17.36 min Scan# 1441
Delta R.T. -0.04 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	641999		
253	23.0	17.6	26.4	
125	12.2	5.4	8.2#	





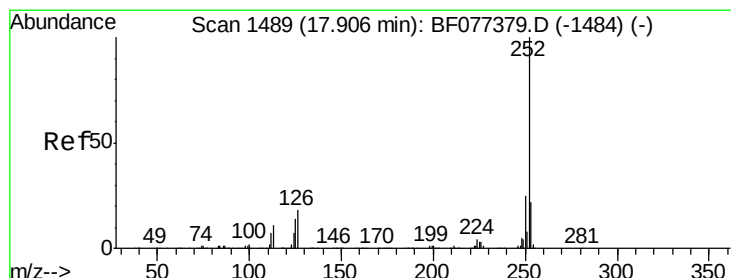
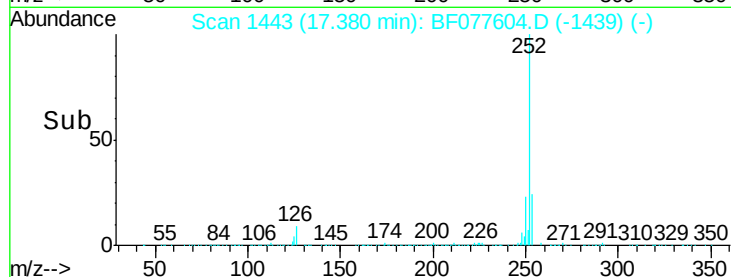
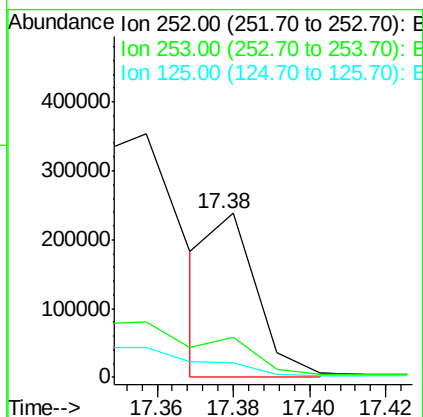
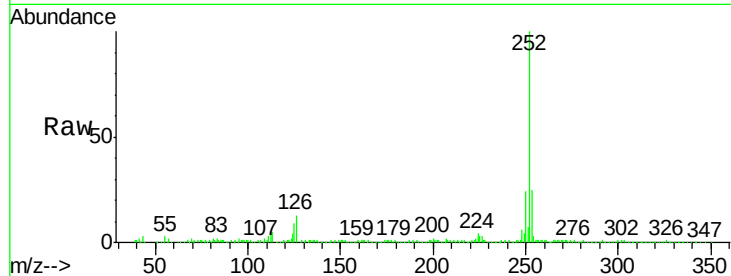
#88
Benzo(k)fluoranthene
Concen: 11.54 ng m
RT: 17.38 min Scan# 1443
Delta R.T. -0.06 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Instrument :
BNA_F
ClientSampleId :
SB18

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.8	18.1	27.1
125	9.0	10.1	15.1#

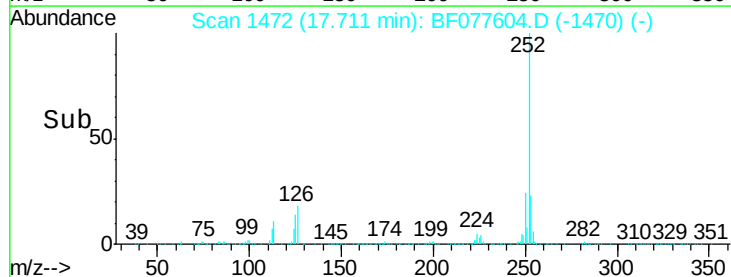
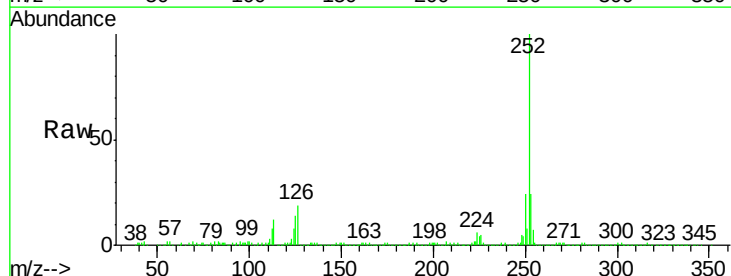
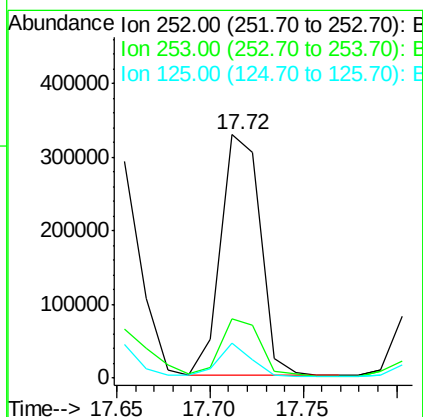
Manual Integrations
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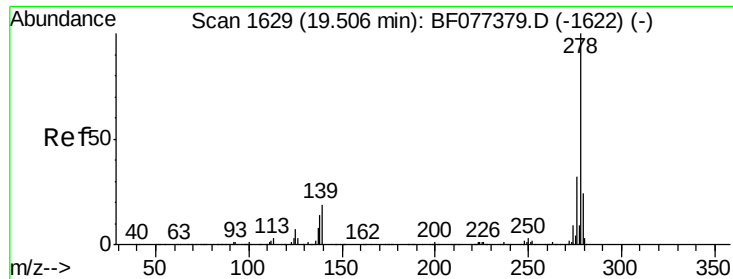
mohammad
3/5/2015 12:57:53 PM



#89
Benzo(a)pyrene
Concen: 29.89 ng
RT: 17.72 min Scan# 1472
Delta R.T. -0.07 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.2	18.2	27.2
125	14.5	8.3	12.5#





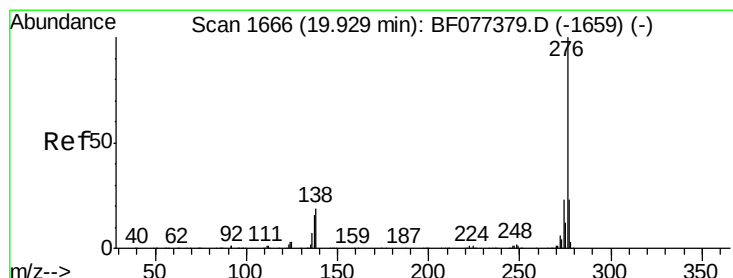
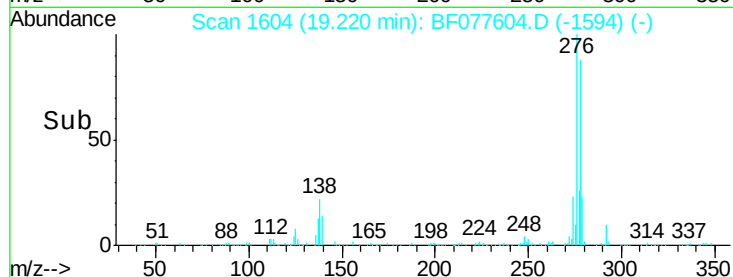
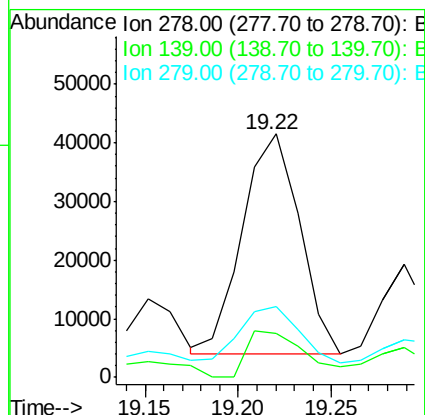
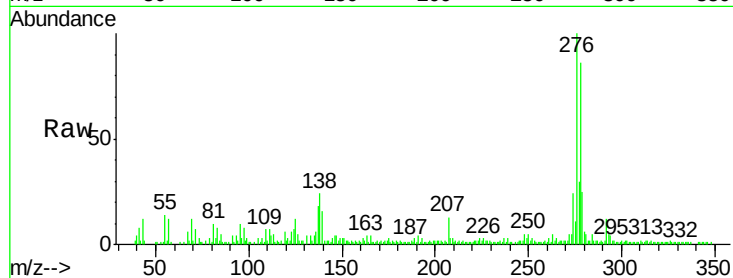
#90
Dibenzo(a,h)anthracene
Concen: 5.19 ng
RT: 19.22 min Scan# 1604
Delta R.T. -0.09 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Instrument :
BNA_F
ClientSampleId :
SB18

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.1	14.3	21.5
279	29.0	19.0	28.6

Manual Integrations
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3/5/2015 12:57:53 PM



#91
Benzo(g,h,i)perylene
Concen: 21.08 ng
RT: 19.62 min Scan# 1639
Delta R.T. -0.08 min
Lab File: BF077604.D
Acq: 5 Mar 2015 4:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.9	28.3
138	24.2	20.5	30.7

