

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060515\
 Data File : BF079753.D
 Acq On : 6 Jun 2015 4:02
 Operator : TP/IZ
 Sample : G2464-07 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-12D

Manual Integrations
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Quant Time: Jun 08 16:09:43 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 08 15:29:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	51091m	20.00	ng	0.00
21) Naphthalene-d8	8.79	136	213519m	20.00	ng	0.00
38) Acenaphthene-d10	10.56	164	118078	20.00	ng	0.00
63) Phenanthrene-d10	12.07	188	222570	20.00	ng	0.00
75) Chrysene-d12	14.99	240	248826	20.00	ng	0.06
86) Perylene-d12	16.93	264	246734	20.00	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	6.10	112	65137	21.37	ng	0.00
7) Phenol-d6	7.07	99	82069	20.84	ng	-0.01
23) Nitrobenzene-d5	8.04	82	41678	11.98	ng	0.00
41) 2,4,6-Tribromophenol	11.36	330	18383	16.28	ng	0.00
44) 2-Fluorobiphenyl	9.86	172	106863	12.26	ng	0.00
78) Terphenyl-d14	13.74	244	144978	13.34	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	8.81	128	2934628	261.98	ng	# 94
37) 2-Methylnaphthalene	9.51	142	1362517	191.33	ng	100
45) 1,1'-Biphenyl	9.96	154	267746	26.07	ng	98
48) Acenaphthylene	10.42	152	899660	64.88	ng	98
51) Acenaphthene	10.59	154	314645	40.07	ng	97
54) Dibenzofuran	10.76	168	344806	31.00	ng	97
57) Fluorene	11.12	166	734962	76.35	ng	98
70) Phenanthrene	12.10	178	2599825	199.51	ng	95
71) Anthracene	12.15	178	943762	73.45	ng	98
72) Carbazole	12.30	167	111655	9.14	ng	95
74) Fluoranthene	13.35	202	1633754	114.51	ng	98
77) Pvrene	13.60	202	1989599	130.42	ng	98
80) Benzo(a)anthracene	14.98	228	1016925m	66.76	ng	
82) Chrysene	15.03	228	745977	52.98	ng	99
85) Indeno(1,2,3-cd)pyrene	18.91	276	304131	18.66	ng	96
87) Benzo(b)fluoranthene	16.35	252	837789m	54.66	ng	
88) Benzo(k)fluoranthene	16.39	252	183290m	12.47	ng	
89) Benzo(a)pyrene	16.85	252	747555	52.83	ng	98
90) Dibenzo(a,h)anthracene	18.93	278	85137	6.23	ng	# 87
91) Benzo(a,h,i)perylene	19.52	276	310300	21.98	ng	97

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

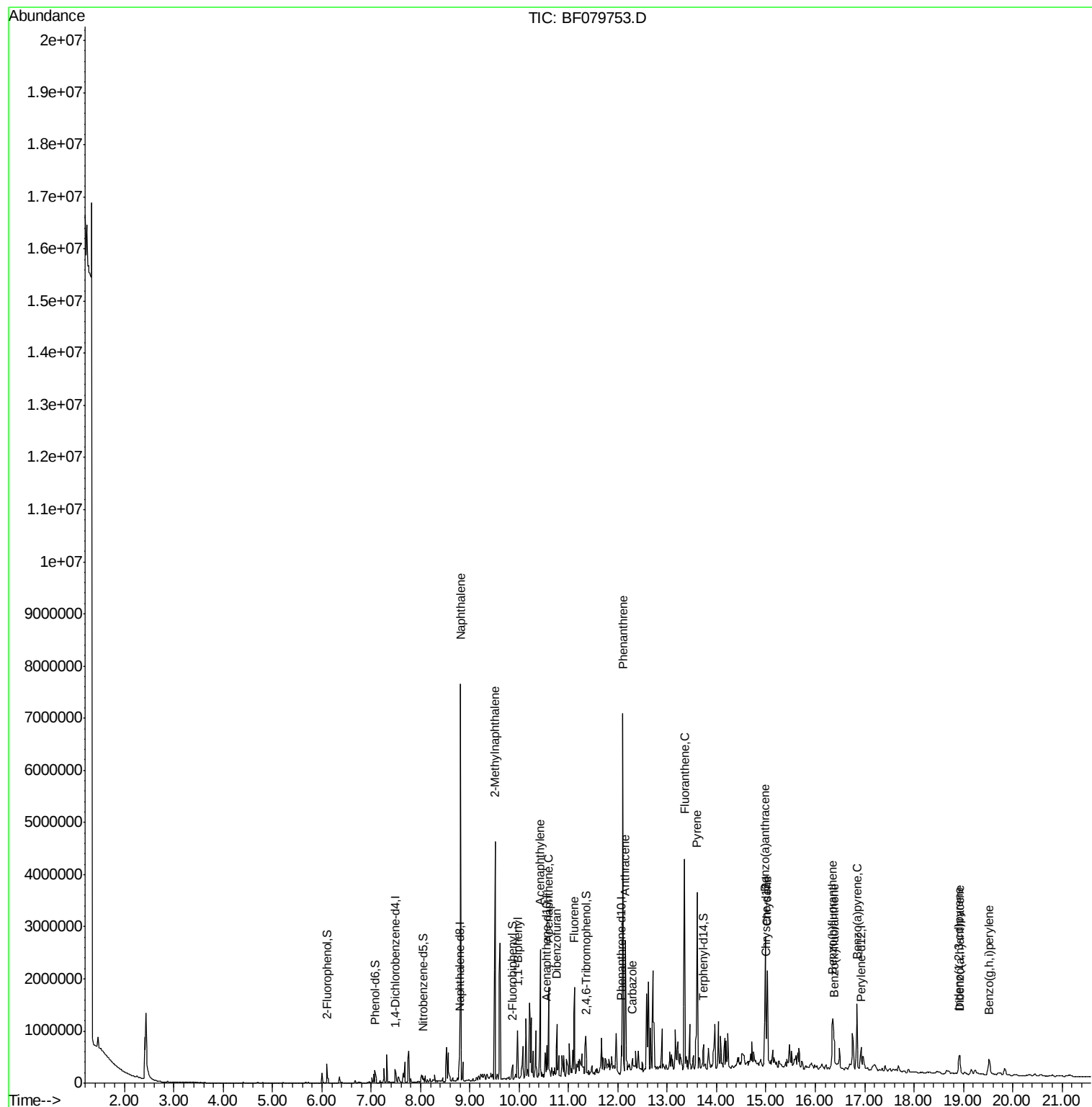
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060515\
Data File : BF079753.D
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ALS Vial : 15 Sample Multiplier: 1

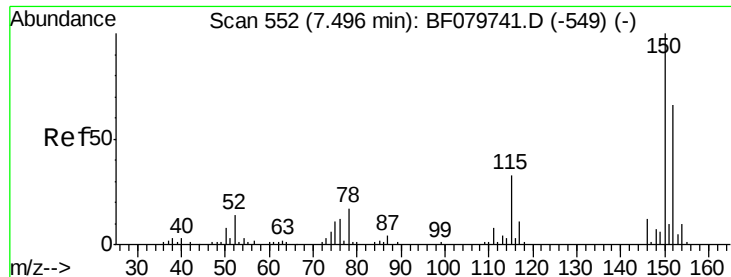
Instrument :
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SB-12D

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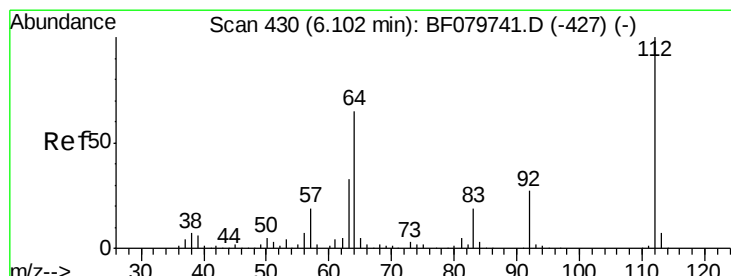
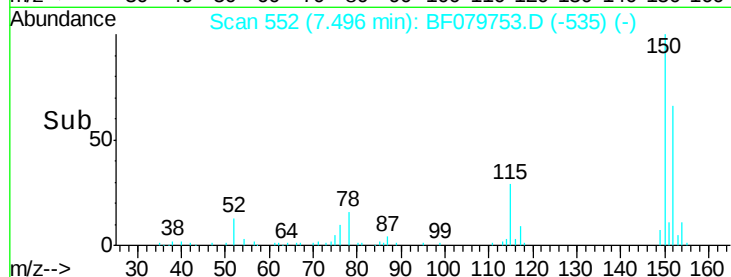
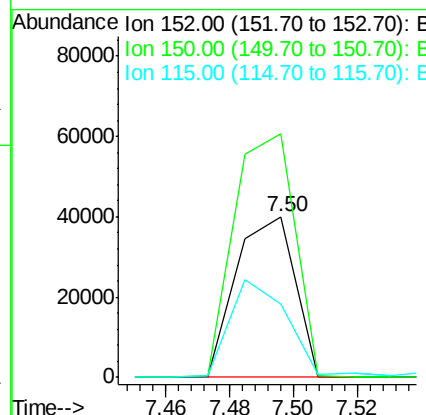
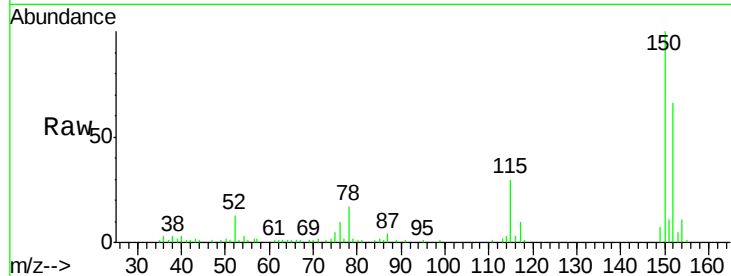
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng/mL
 RT: 7.50 min Scan# 552
 Delta R.T. -0.00 min
 Lab File: BF079753.D
 Acq: 6 Jun 2015 4:02

Instrument :
 BNA_F
 ClientSampleId :
 SB-12D

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.5	128.1	192.1
115	45.6	49.7	74.5

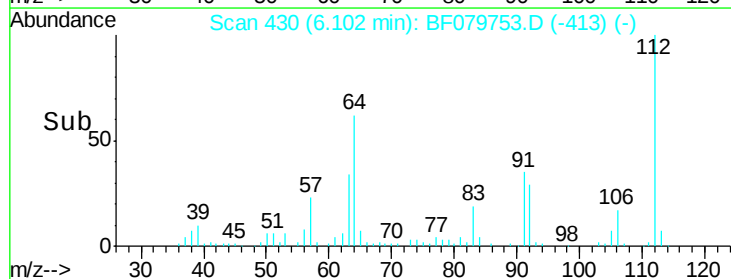
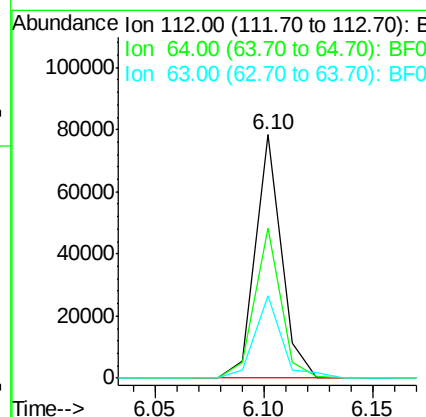
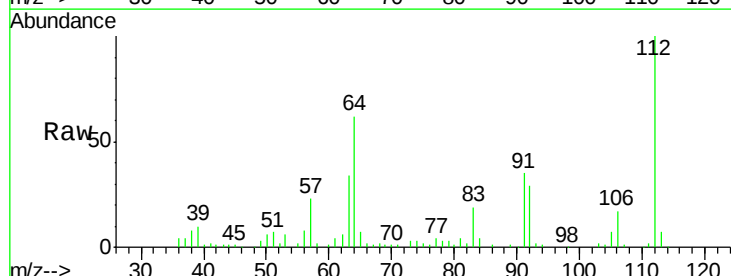
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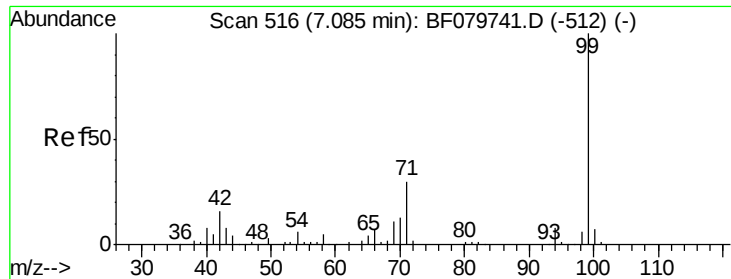
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#5
 2-Fluorophenol
 Concen: 21.37 ng
 RT: 6.10 min Scan# 430
 Delta R.T. -0.00 min
 Lab File: BF079753.D
 Acq: 6 Jun 2015 4:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.7	49.6	74.4
63	33.9	24.9	37.3





#7

Phenol-d6

Concen: 20.84 ng

RT: 7.07 min Scan# 515

Delta R.T. -0.01 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Instrument :

BNA_F

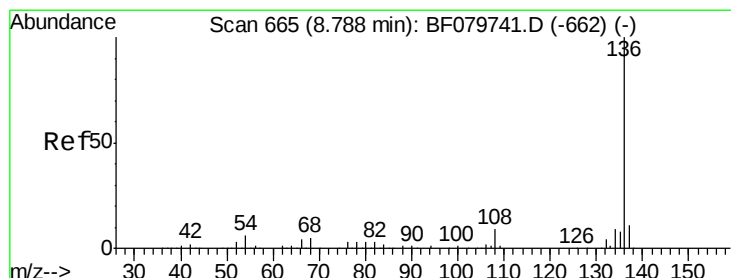
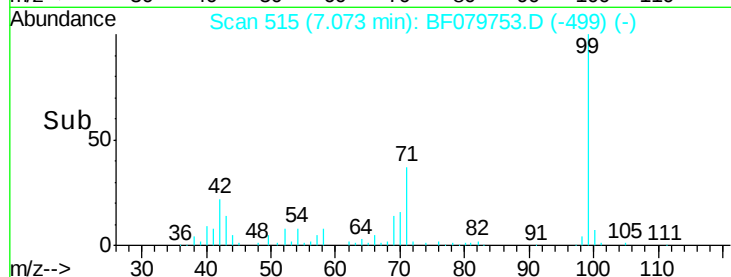
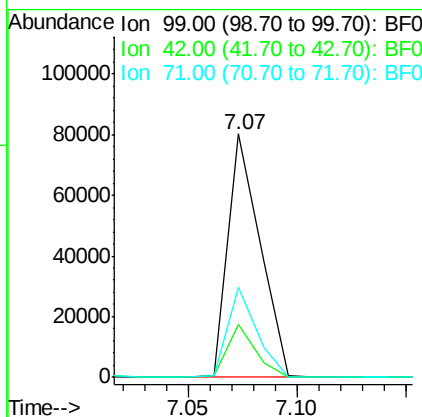
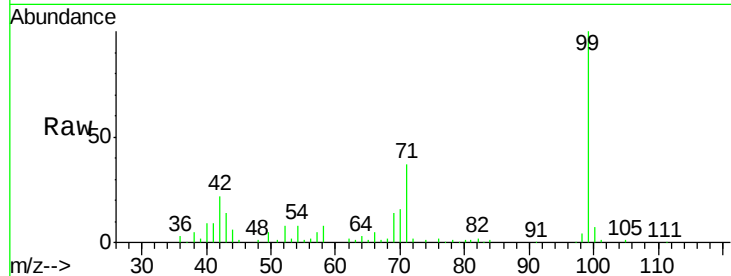
ClientSampled :

SB-12D

Tot Ion:	99	Resp:	82069
Ion Ratio	Lower	Upper	
99	100		
42	21.8	18.0	27.0
71	37.1	28.4	42.6

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#21

Naphthalene-d8

Concen: 20.00 ng m

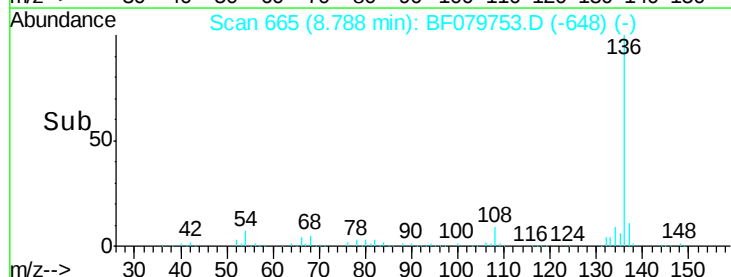
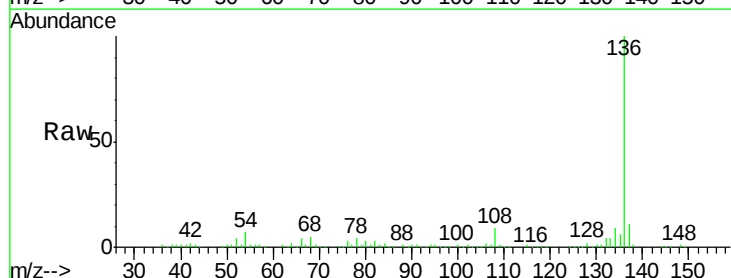
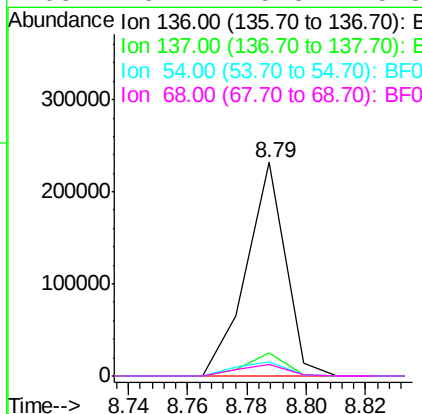
RT: 8.79 min Scan# 665

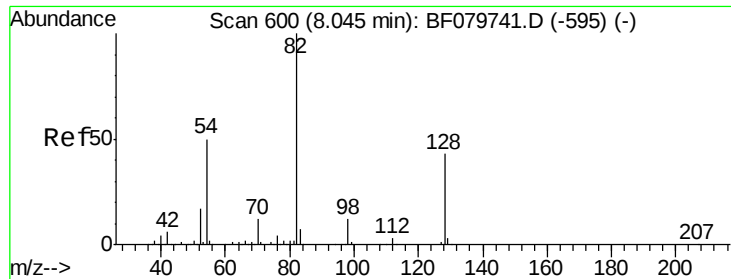
Delta R.T. -0.00 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Tgt Ion:	136	Resp:	213519
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.8	13.2
54	6.8	8.7	13.1#
68	5.2	5.8	8.8#





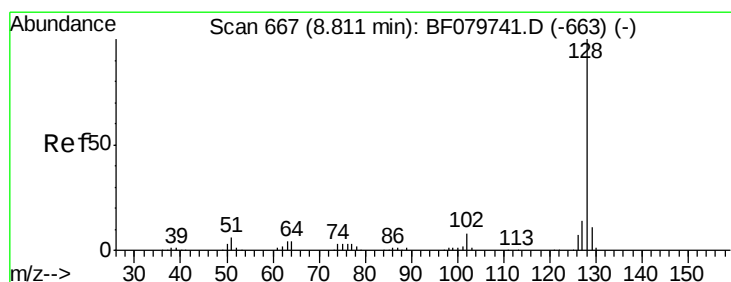
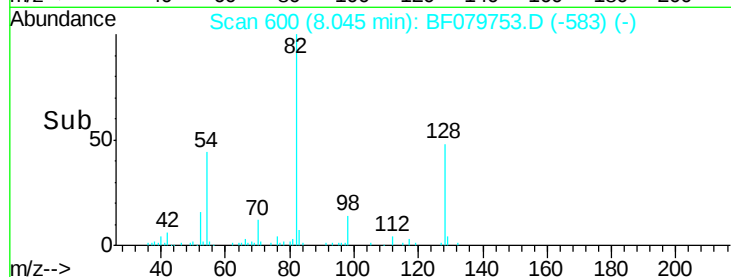
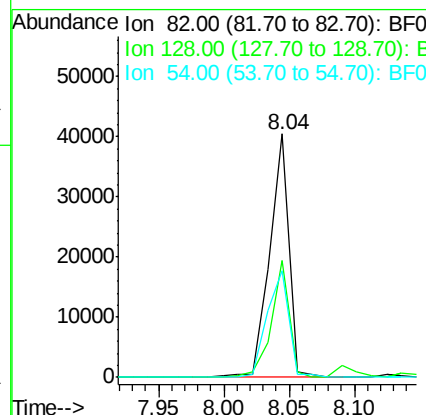
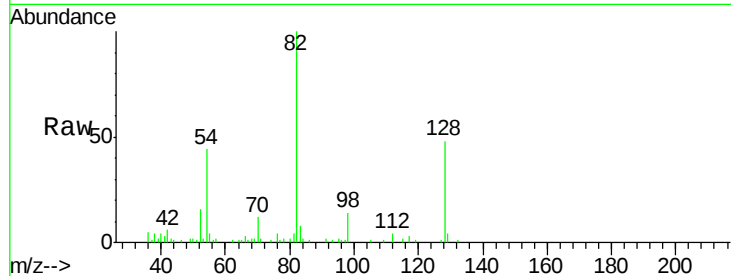
#23
Nitrobenzene-d5
Concen: 11.98 ng
RT: 8.04 min Scan# 600
Delta R.T. -0.00 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Instrument :
BNA_F
ClientSampleId :
SB-12D

Tot Ion	82	Resp	41678
Ion Ratio	100	Lower	Upper
128	47.9	37.6	56.4
54	43.7	39.4	59.2

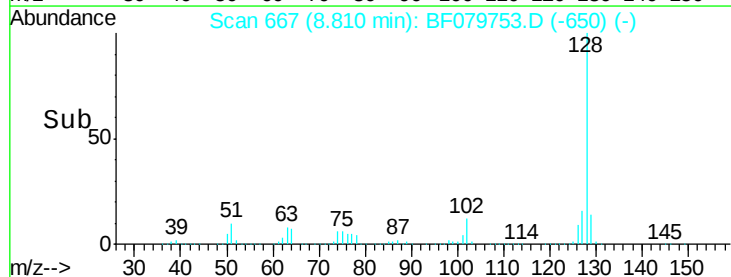
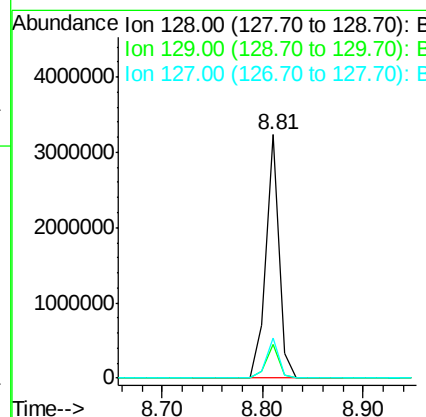
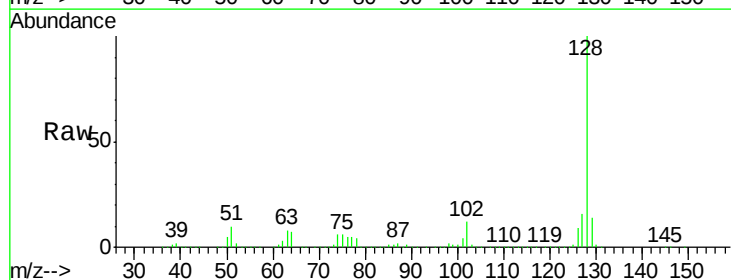
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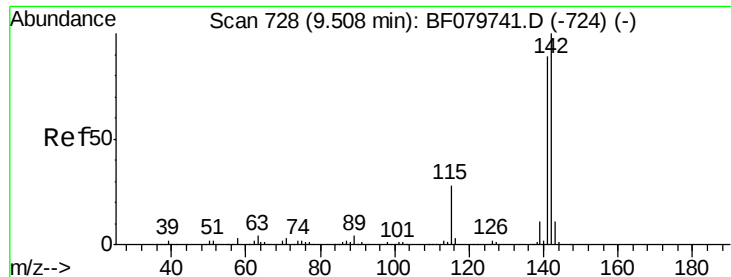
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#31
Naphthalene
Concen: 261.98 ng
RT: 8.81 min Scan# 667
Delta R.T. -0.00 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Tgt Ion	128	Resp	2934628
Ion Ratio	100	Lower	Upper
129	13.7	9.4	14.2
127	16.4	10.7	16.1#





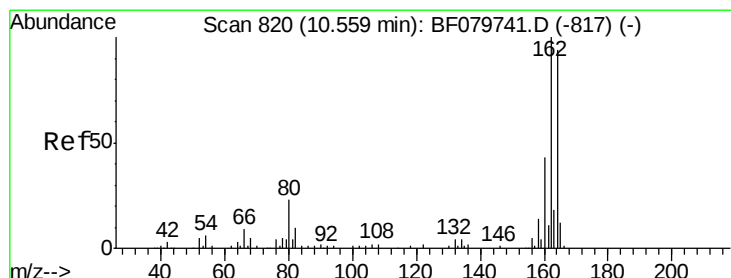
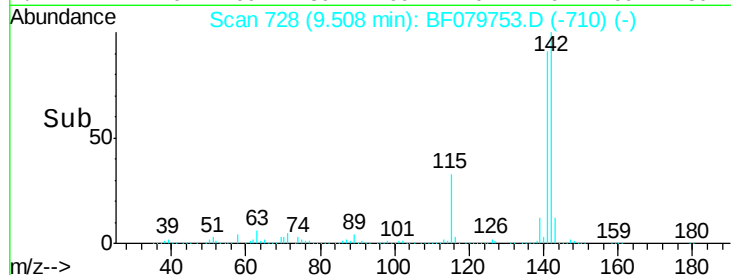
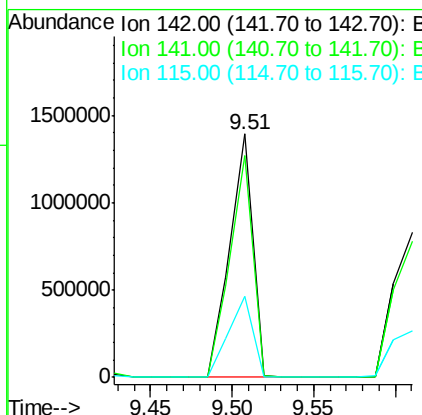
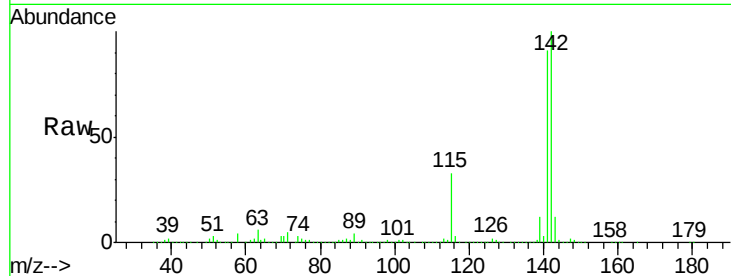
#37
2-Methylnaphthalene
Concen: 191.33 ng
RT: 9.51 min Scan# 728
Delta R.T. 0.01 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Instrument :
BNA_F
ClientSampled :
SB-12D

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.2	72.8	109.2
115	33.4	26.9	40.3

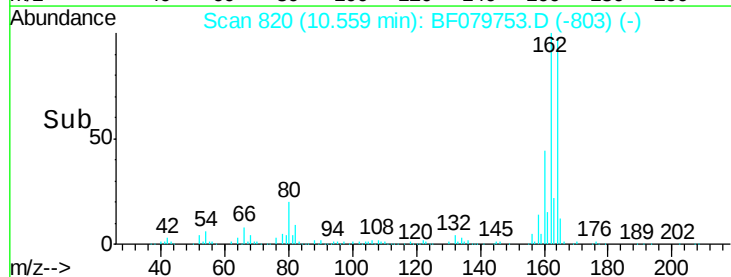
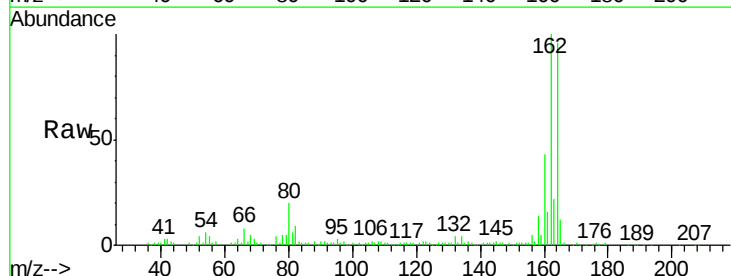
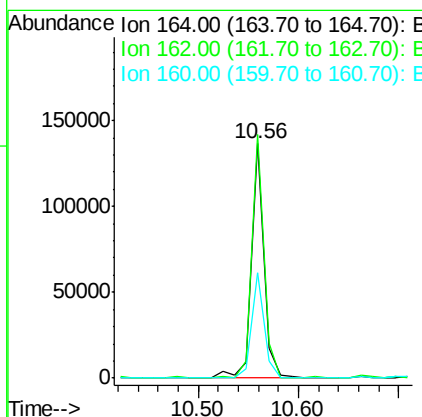
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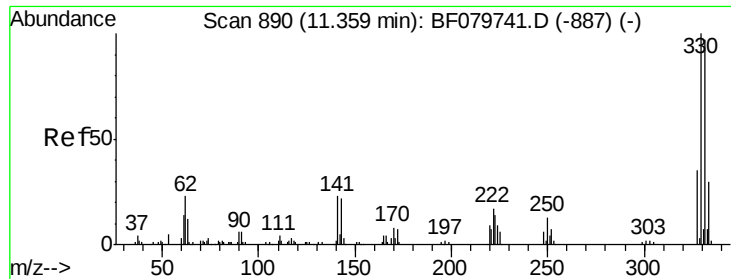
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.56 min Scan# 820
Delta R.T. -0.00 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.6	123.8
160	45.0	36.8	55.2





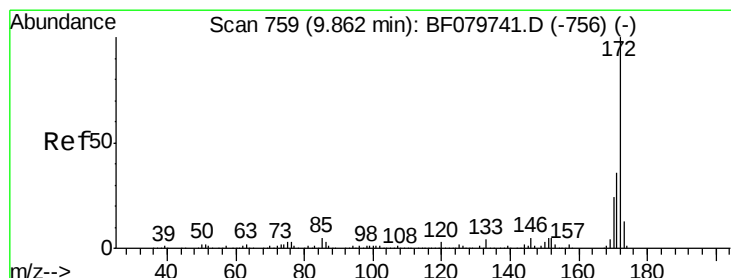
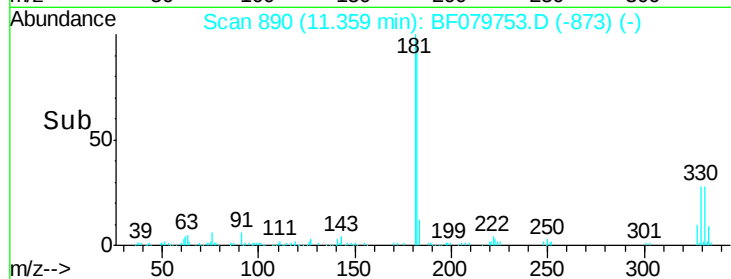
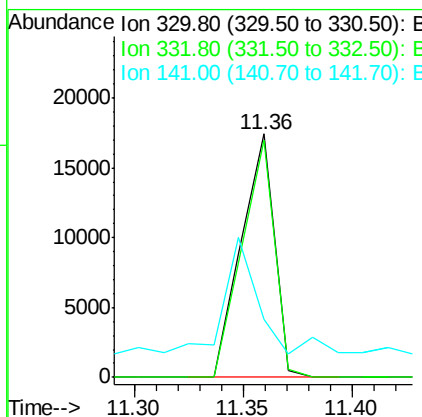
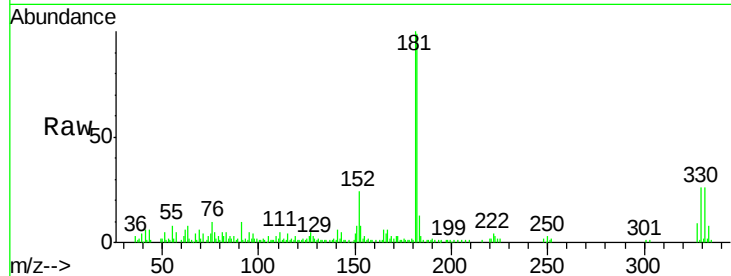
#41
 2,4,6-Tribromophenol
 Concen: 16.28 ng
 RT: 11.36 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: BF079753.D
 Acq: 6 Jun 2015 4:02

Instrument :
 BNA_F
 ClientSampleId :
 SB-12D

Tot Ion	Ratio	Resp	Lower	Upper
330	100	18383		
332	96.0	77.4	116.0	
141	56.1	30.2	45.2	

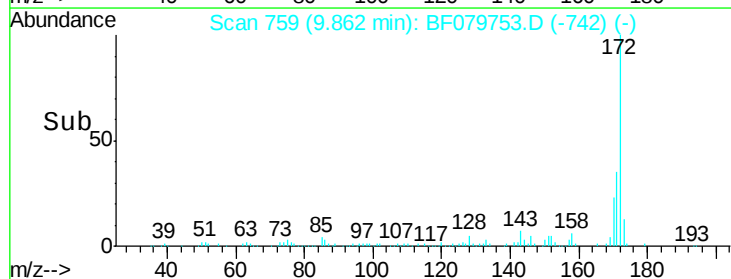
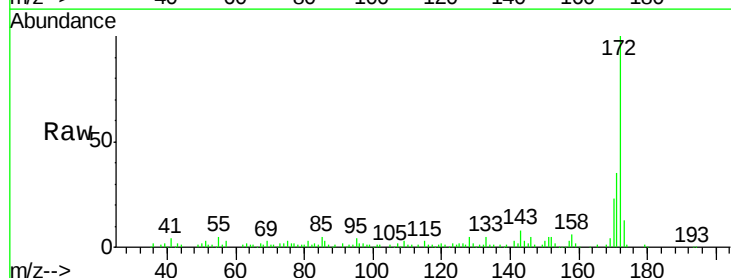
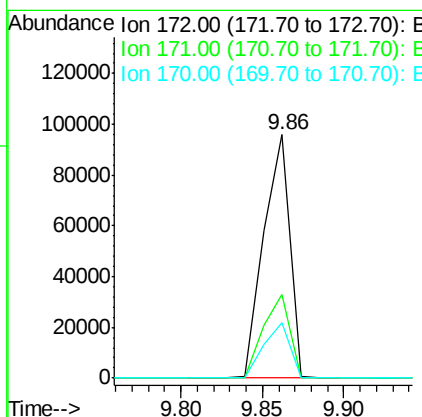
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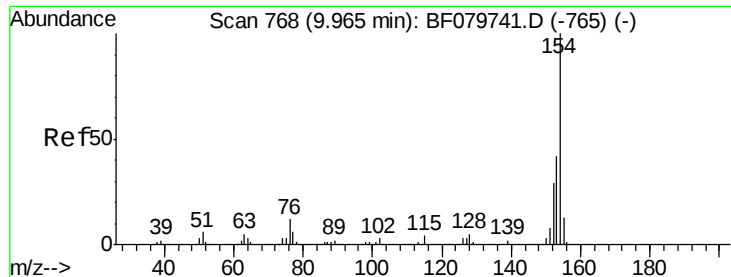
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#44
 2-Fluorobiphenyl
 Concen: 12.26 ng
 RT: 9.86 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: BF079753.D
 Acq: 6 Jun 2015 4:02

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	106863		
171	34.6	29.4	44.0	
170	22.8	19.7	29.5	





#45

1,1'-Biphenyl

Concen: 26.07 ng

RT: 9.96 min Scan# 768

Delta R.T. -0.00 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Instrument :

BNA_F

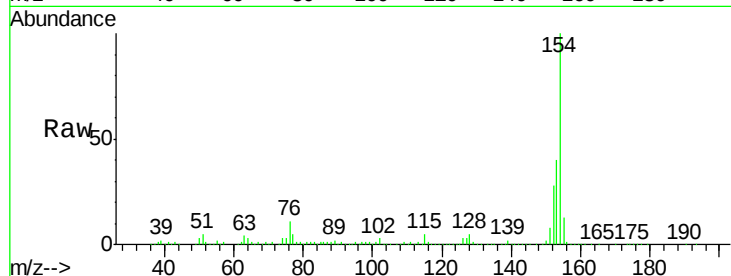
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SB-12D

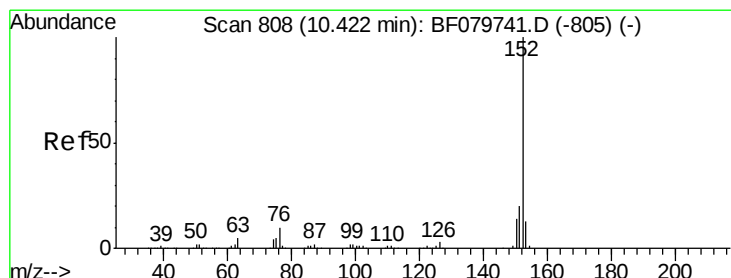
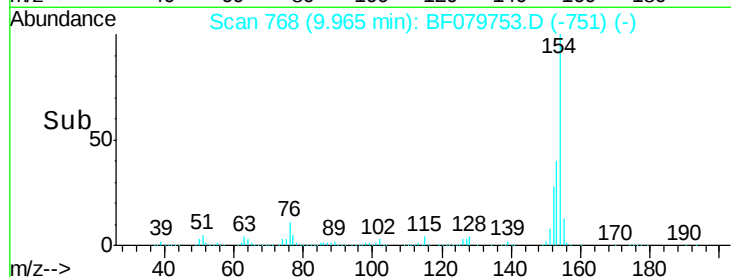
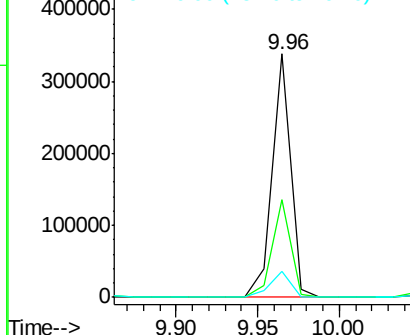
Tot Ion:	154	Resp:	267746
Ion Ratio	Lower	Upper	
154	100		
153	40.2	19.9	59.9
76	10.7	0.0	28.2

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 64.88 ng

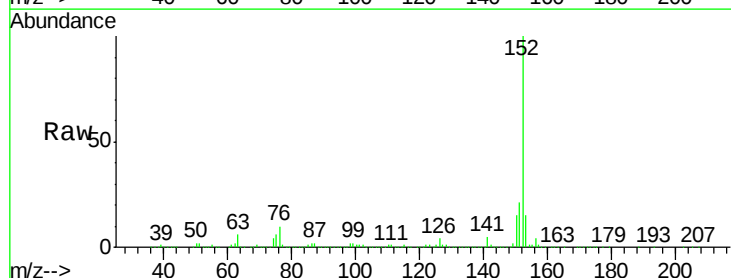
RT: 10.42 min Scan# 808

Delta R.T. -0.00 min

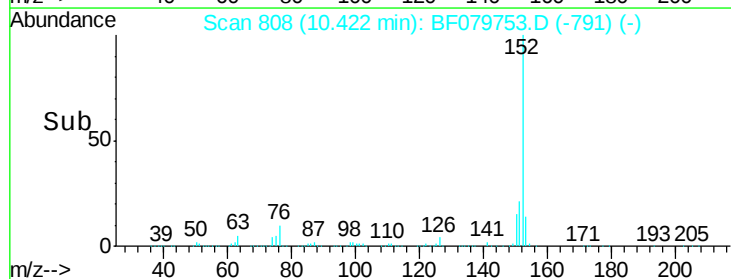
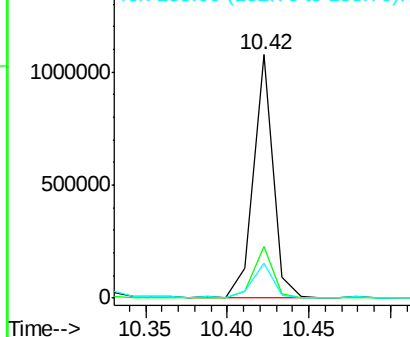
Lab File: BF079753.D

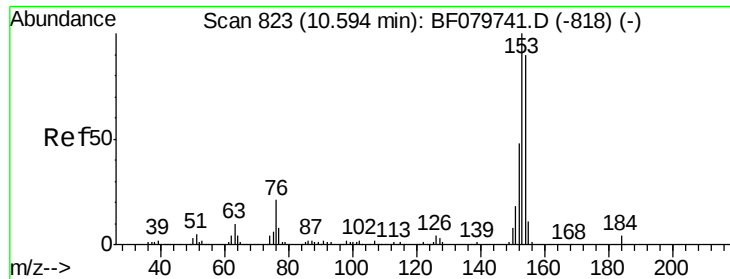
Acq: 6 Jun 2015 4:02

Tgt Ion:	152	Resp:	899660
Ion Ratio	Lower	Upper	
152	100		
151	21.0	16.2	24.4
153	14.6	10.4	15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 40.07 ng

RT: 10.59 min Scan# 823

Delta R.T. -0.00 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Instrument :

BNA_F

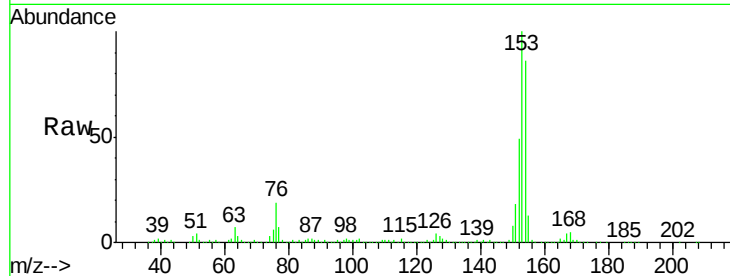
ClientSampleId :

SB-12D

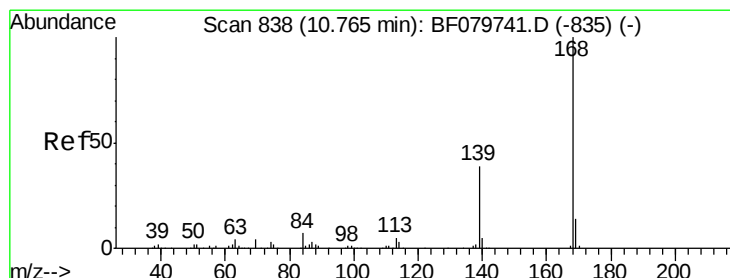
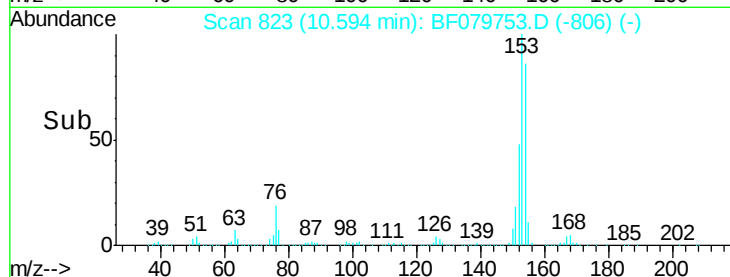
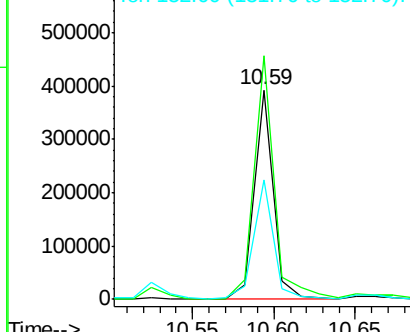
Tot Ion:	154	Resp:	314645
Ion Ratio	Lower	Upper	
154	100		
153	116.2	90.1	135.1
152	56.8	43.4	65.0

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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: 31.00 ng

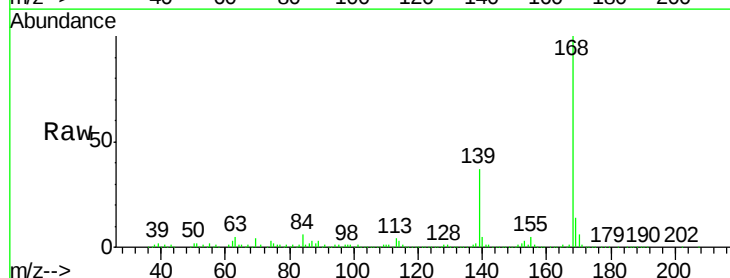
RT: 10.76 min Scan# 838

Delta R.T. -0.00 min

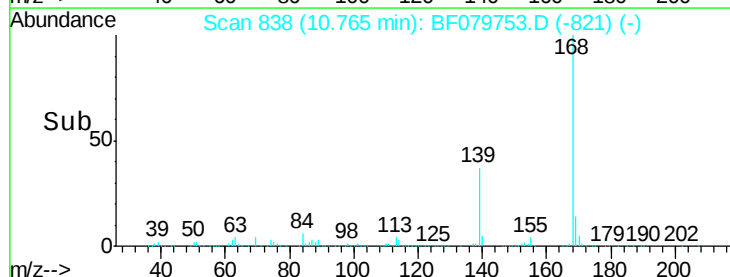
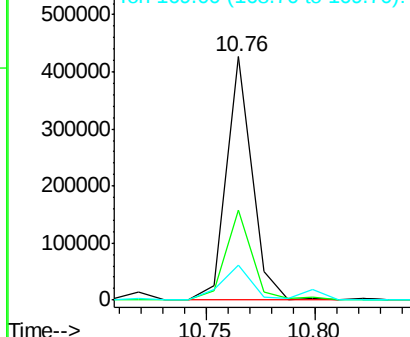
Lab File: BF079753.D

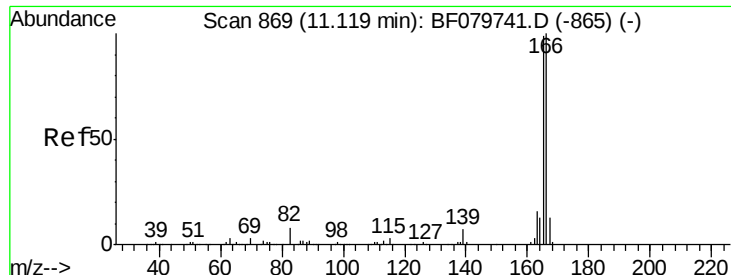
Acq: 6 Jun 2015 4:02

Tgt Ion:	168	Resp:	344806
Ion Ratio	Lower	Upper	
168	100		
139	36.9	27.7	41.5
169	14.2	11.0	16.4



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





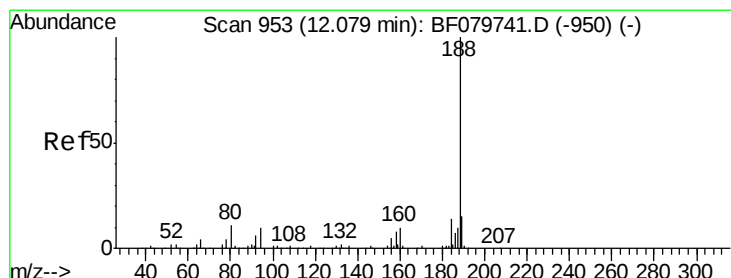
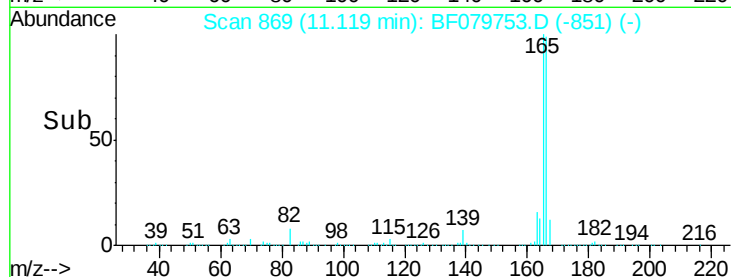
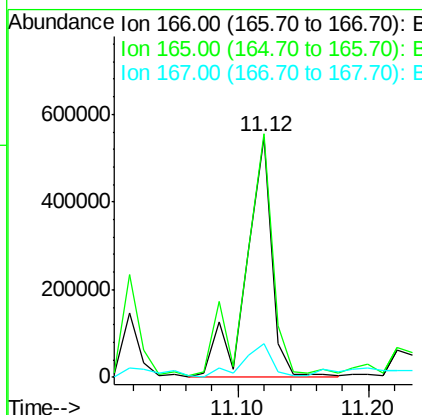
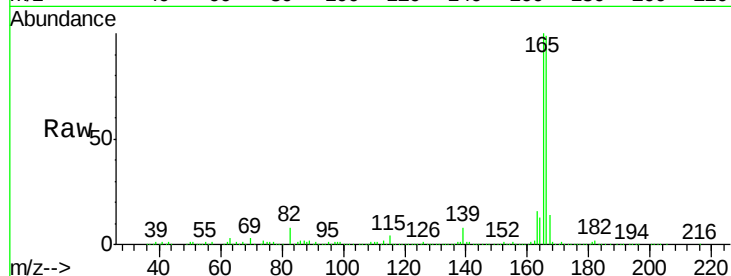
#57
Fluorene
 Concen: 76.35 ng
 RT: 11.12 min Scan# 869
 Delta R.T. 0.01 min
 Lab File: BF079753.D
 Acq: 6 Jun 2015 4:02

Instrument :
 BNA_F
 ClientSampleId :
 SB-12D

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	101.3	79.4	119.0		
167	14.0	11.0	16.4		

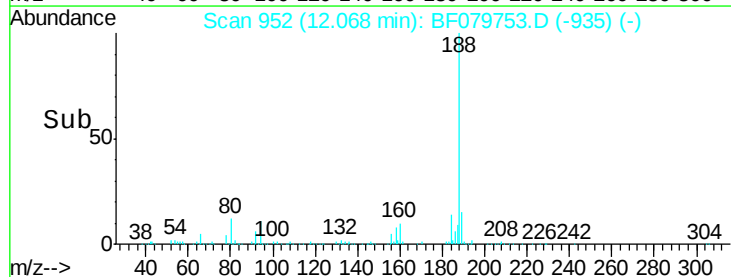
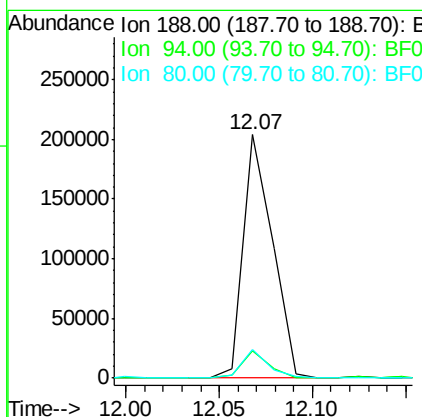
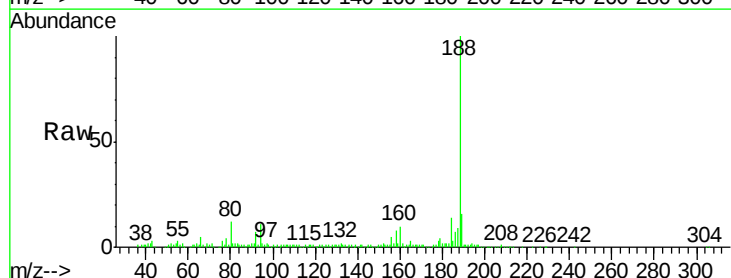
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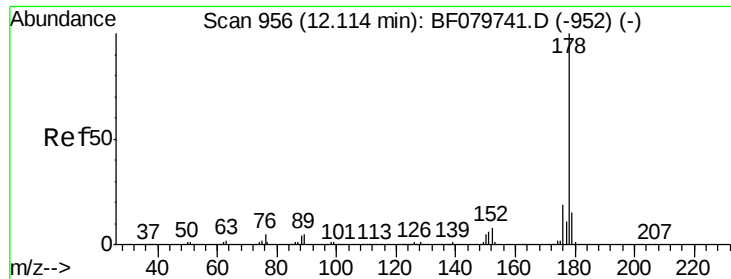
apatel
 6/9/2015 8:10:33 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.07 min Scan# 952
 Delta R.T. -0.00 min
 Lab File: BF079753.D
 Acq: 6 Jun 2015 4:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	11.3	5.0	7.4#		
80	12.0	5.3	7.9#		





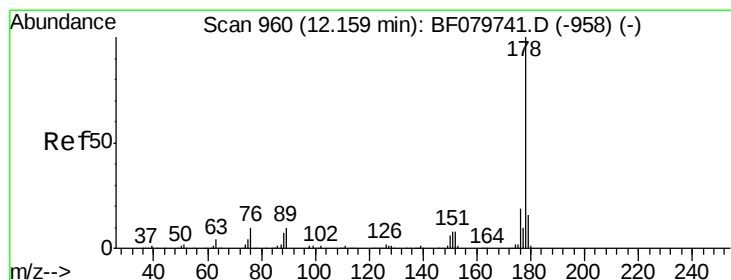
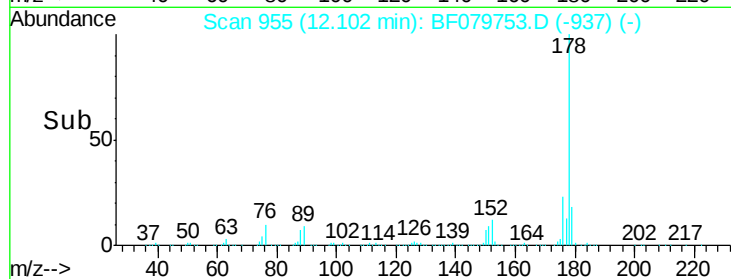
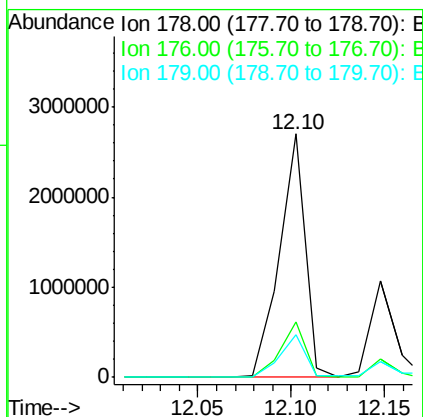
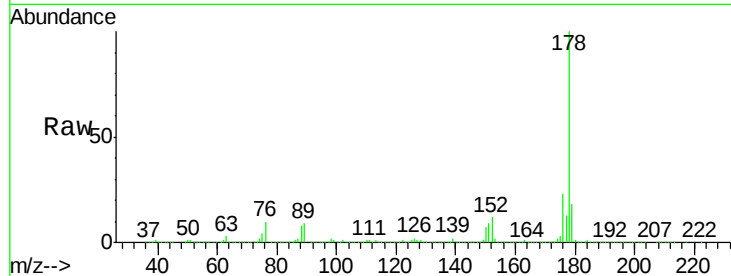
#70
Phenanthrene
Concen: 199.51 ng
RT: 12.10 min Scan# 955
Delta R.T. 0.01 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Instrument :
BNA_F
ClientSampleId :
SB-12D

Tot Ion:178 Resp: 2599825
Ion Ratio Lower Upper
178 100
176 22.8 16.2 24.4
179 17.7 12.6 19.0

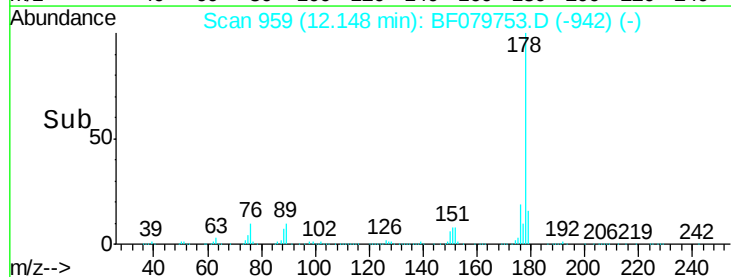
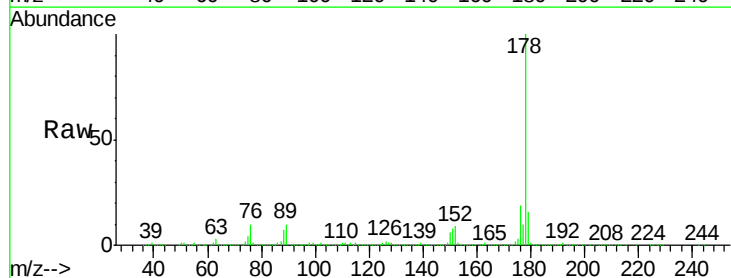
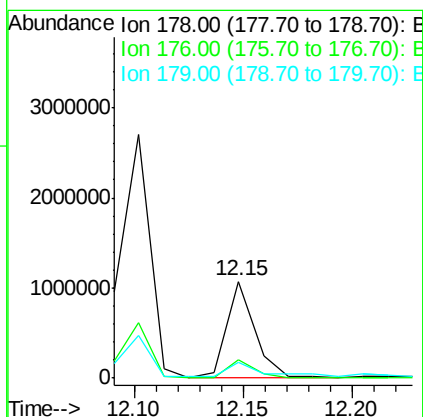
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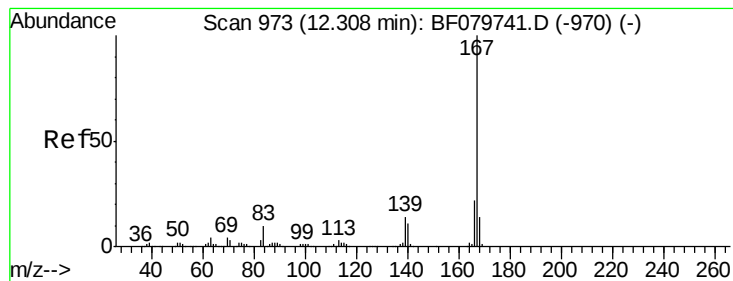
apatel
6/9/2015 8:10:33 AM



#71
Anthracene
Concen: 73.45 ng
RT: 12.15 min Scan# 959
Delta R.T. -0.00 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Tgt Ion:178 Resp: 943762
Ion Ratio Lower Upper
178 100
176 19.3 14.8 22.2
179 16.5 12.2 18.2





#72

Carbazole

Concen: 9.14 ng

RT: 12.30 min Scan# 972

Delta R.T. 0.01 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Instrument :

BNA_F

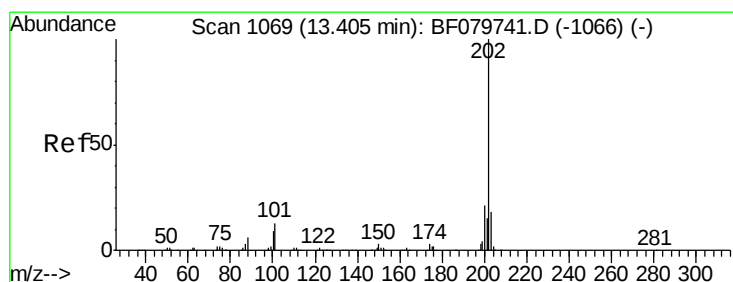
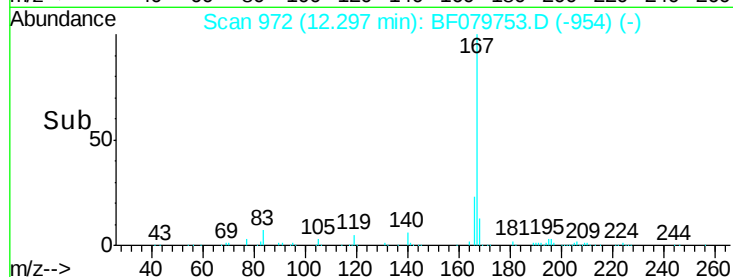
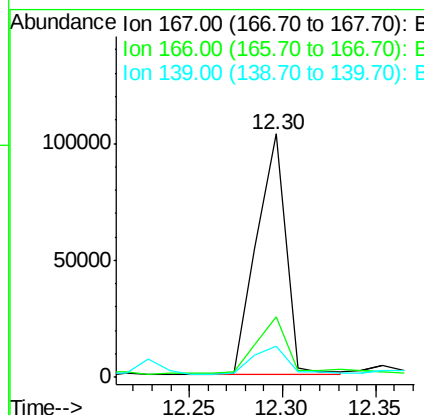
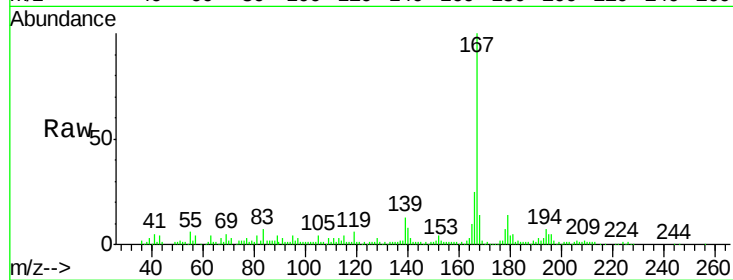
ClientSampleId :

SB-12D

Tot Ion:	167	Resp:	111655
Ion Ratio	Lower	Upper	
167	100		
166	24.8	17.7	26.5
139	12.6	9.3	13.9

Manual Integrations
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#74

Fluoranthene

Concen: 114.51 ng

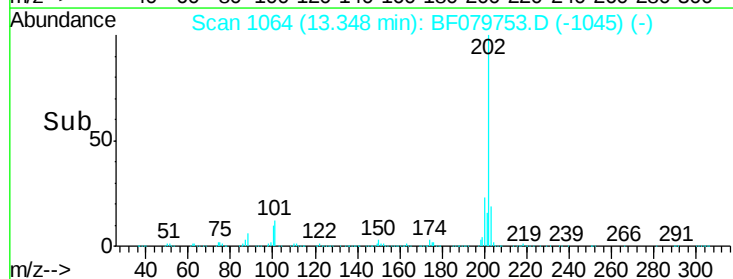
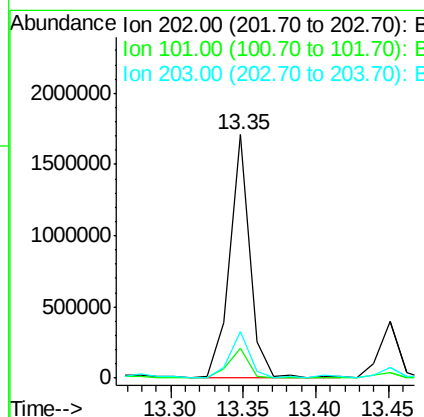
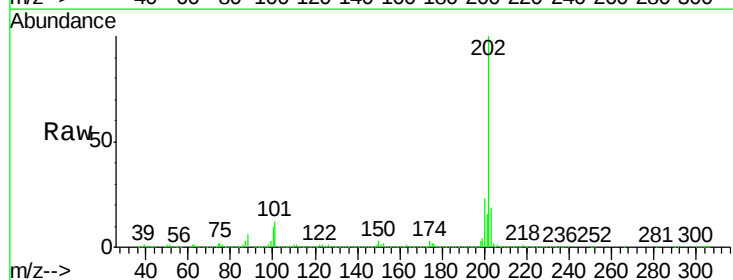
RT: 13.35 min Scan# 1064

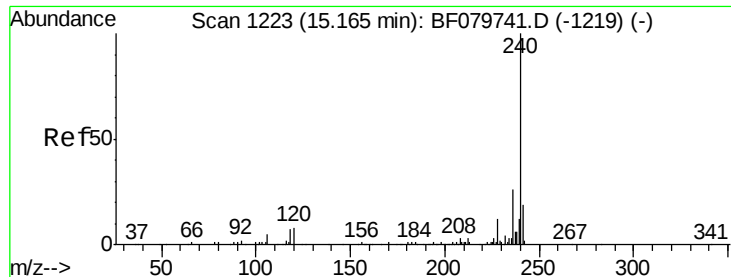
Delta R.T. 0.02 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Tgt Ion:	202	Resp:	1633754
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	31.3
203	19.3	0.0	38.4





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.99 min Scan# 1208

Delta R.T. 0.06 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Instrument :

BNA_F

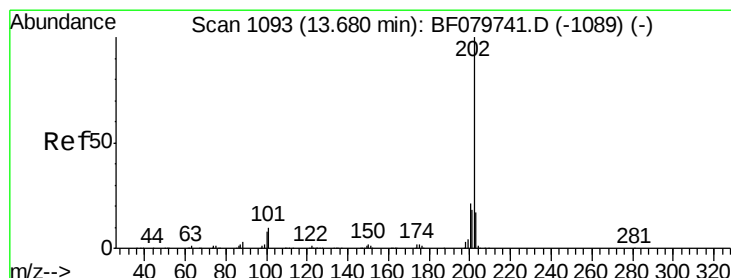
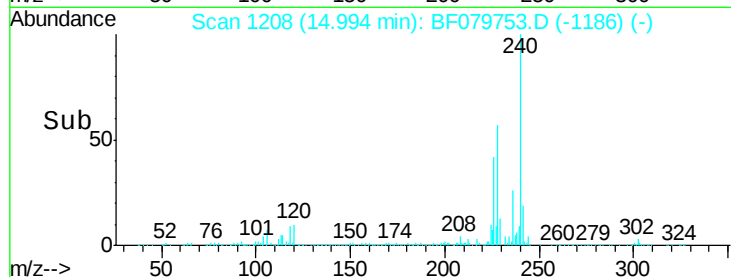
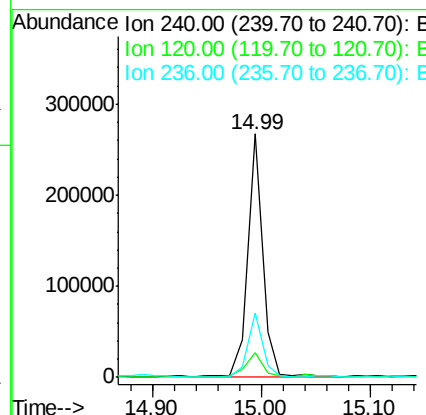
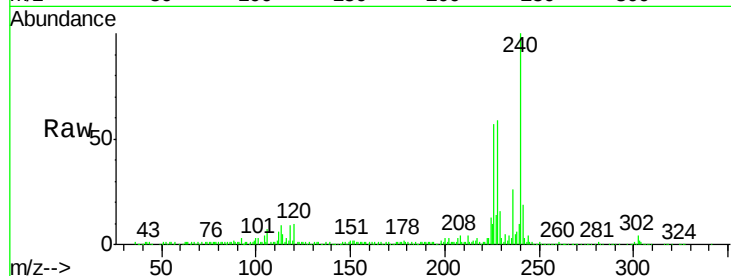
ClientSampled :

SB-12D

Tot Ion	Ratio	Resp	Lower	Upper
240	100	248826		
120	10.0	6.2	9.2#	
236	26.3	21.0	31.4	

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#77

Pyrene

Concen: 130.42 ng

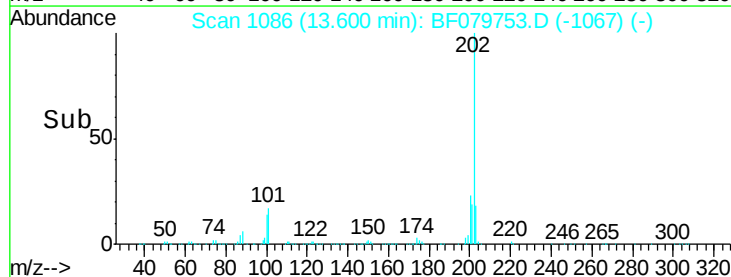
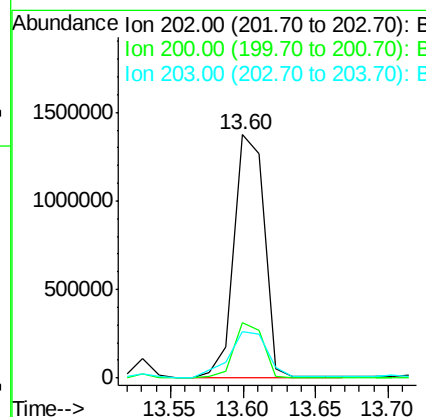
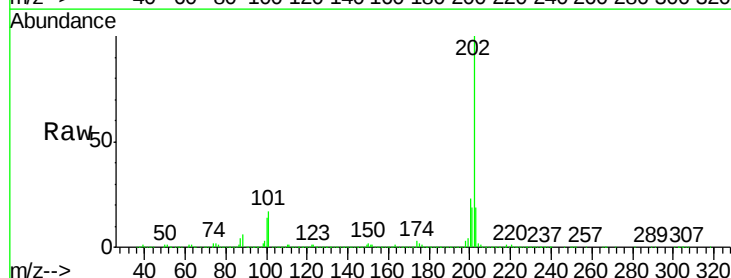
RT: 13.60 min Scan# 1086

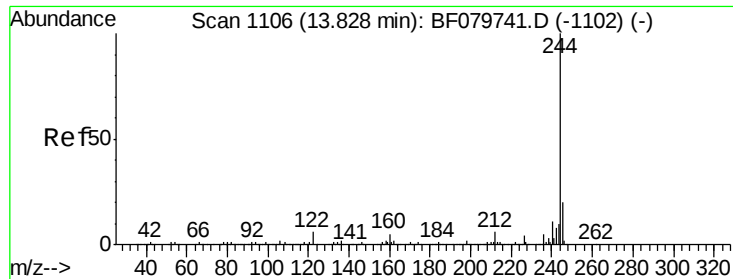
Delta R.T. 0.02 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1989599		
200	22.7	17.5	26.3	
203	19.1	14.8	22.2	





#78

Terphenyl-d14

Concen: 13.34 ng

RT: 13.74 min Scan# 1098

Delta R.T. 0.02 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Instrument :

BNA_F

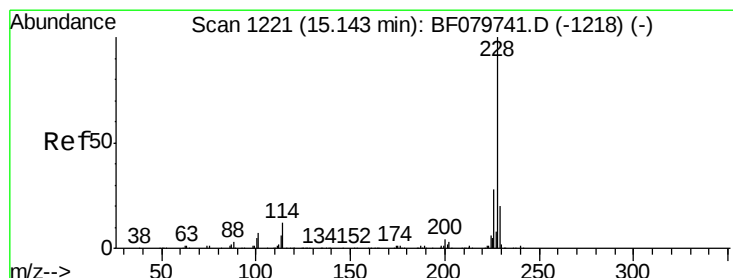
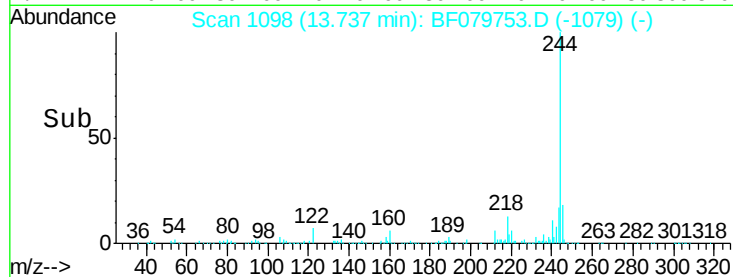
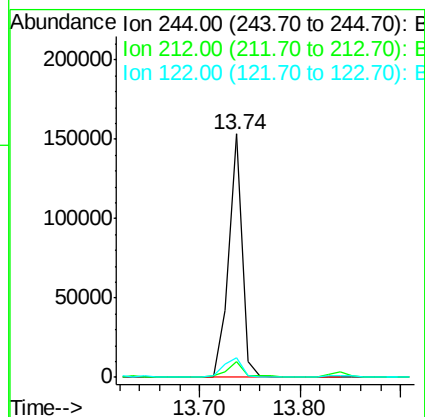
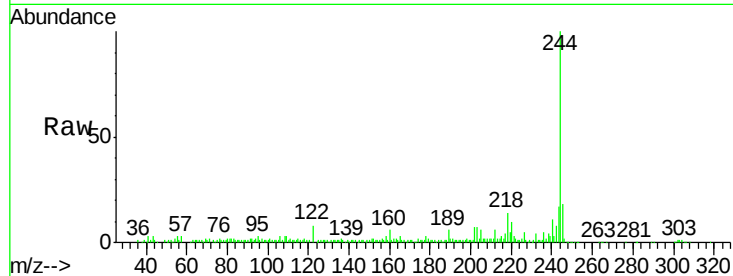
ClientSampleId :

SB-12D

Tot Ion:	244	Resp:	144978
Ion Ratio		Lower	Upper
244	100		
212	6.3	6.1	9.1
122	7.9	9.3	13.9#

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#80

Benzo(a)anthracene

Concen: 66.76 ng m

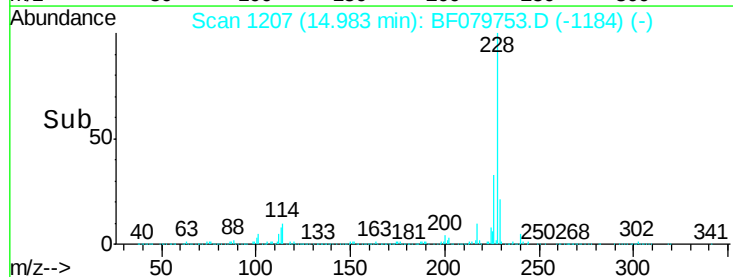
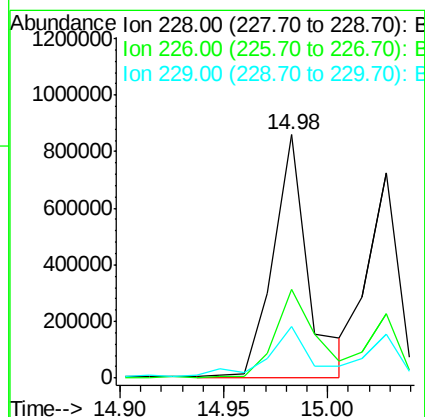
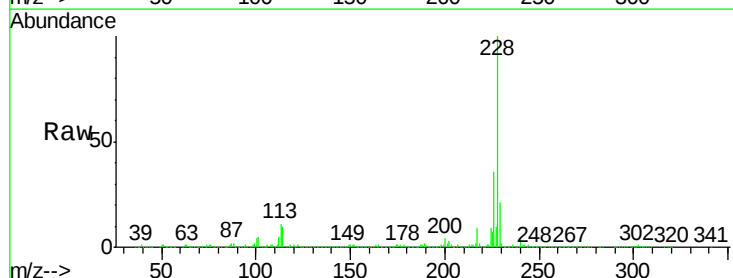
RT: 14.98 min Scan# 1207

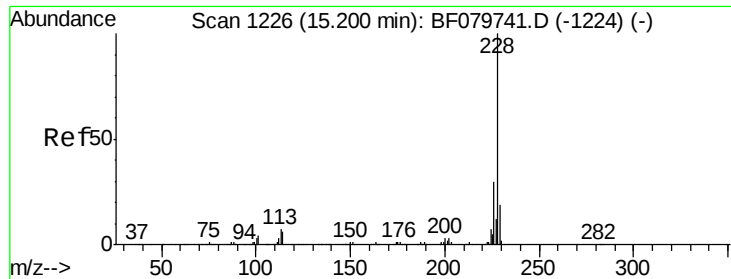
Delta R.T. 0.07 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Tgt Ion:	228	Resp:	1016925
Ion Ratio		Lower	Upper
228	100		
226	36.4	22.2	33.4#
229	21.3	16.6	25.0





#82

Chrysene

Concen: 52.98 ng

RT: 15.03 min Scan# 1211

Delta R.T. 0.07 min

Lab File: BF079753.D

Acq: 6 Jun 2015 4:02

Instrument :

BNA_F

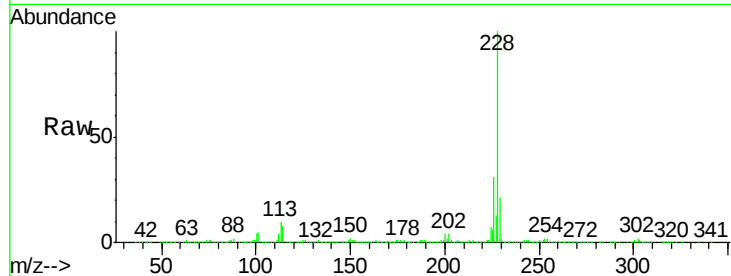
ClientSampled :

SB-12D

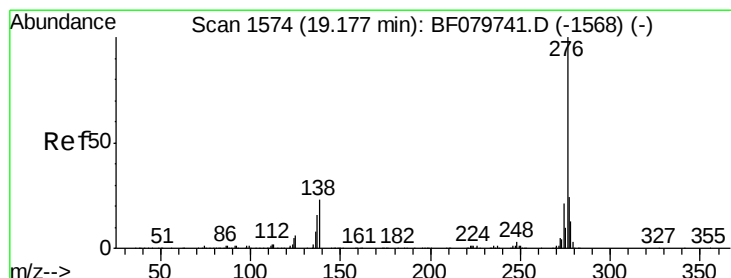
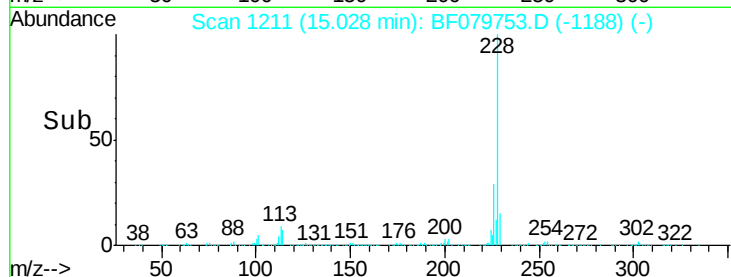
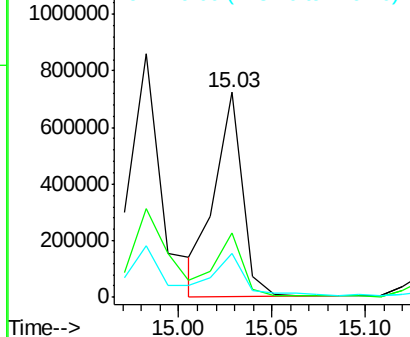
Tot Ion:	228	Resp:	745977
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.2	37.8
229	21.3	16.2	24.4

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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: 18.66 ng

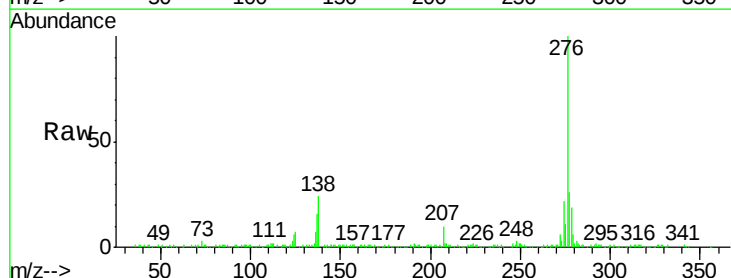
RT: 18.91 min Scan# 1551

Delta R.T. 0.10 min

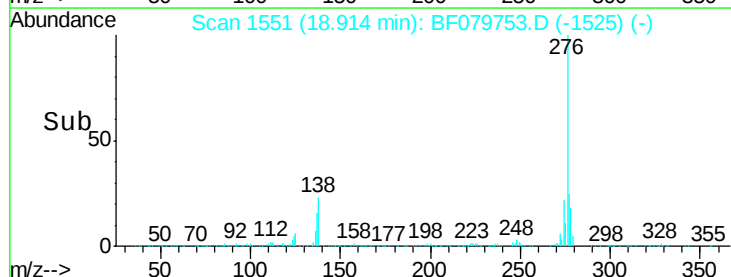
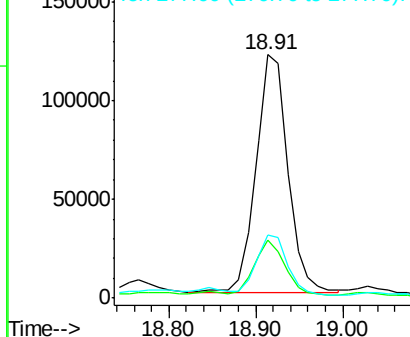
Lab File: BF079753.D

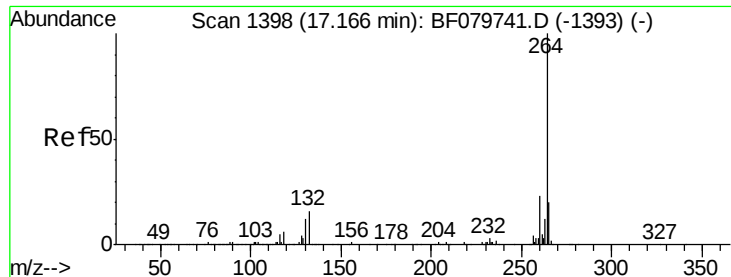
Acq: 6 Jun 2015 4:02

Tgt Ion:	276	Resp:	304131
Ion Ratio	Lower	Upper	
276	100		
138	22.1	20.8	31.2
277	25.2	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





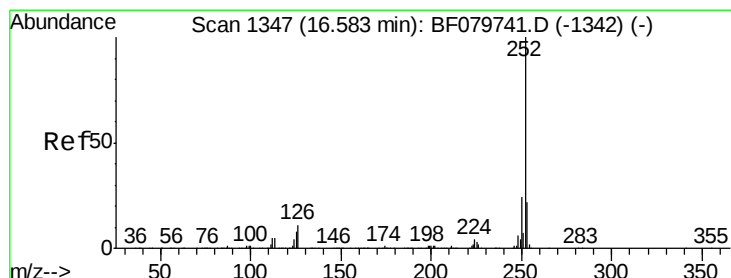
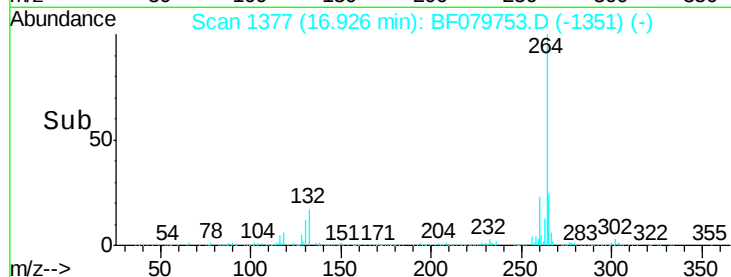
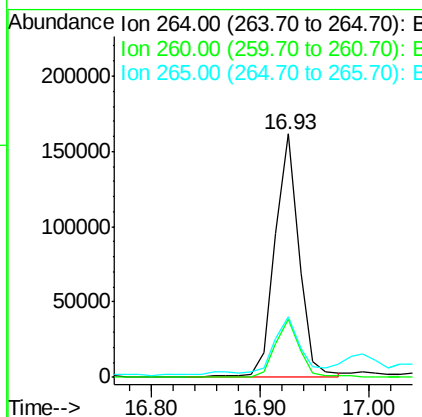
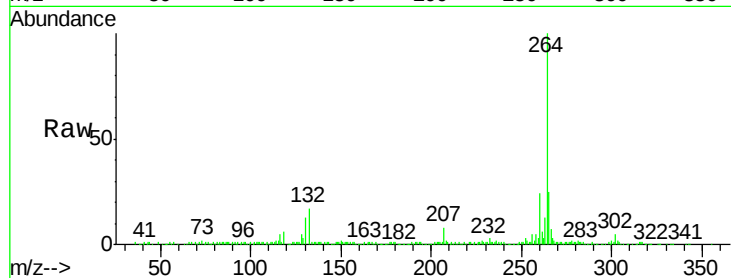
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.93 min Scan# 1377
Delta R.T. 0.10 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Instrument :
BNA_F
ClientSampleId :
SB-12D

Tot Ion	Ratio	Resp	Lower	Upper
264	100	246734		
260	23.9	18.6	27.8	
265	25.1	18.2	27.4	

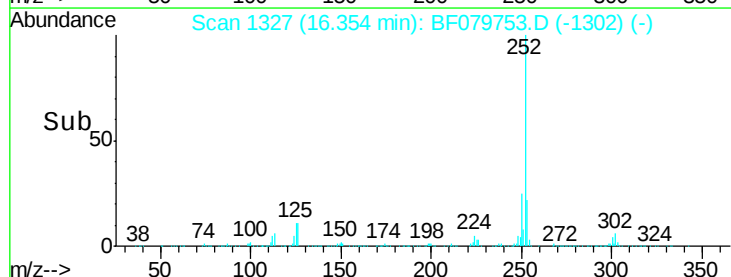
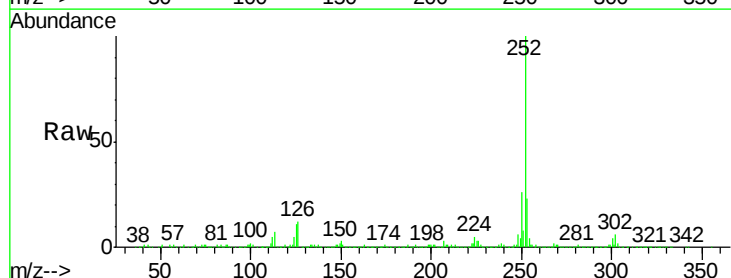
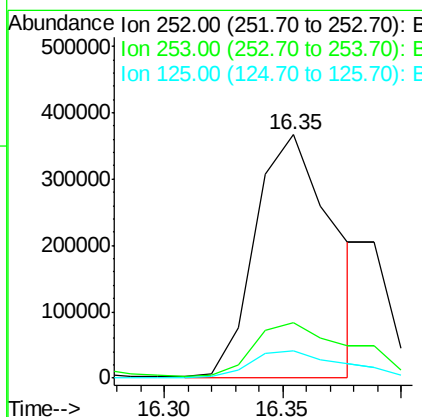
Manual Integrations
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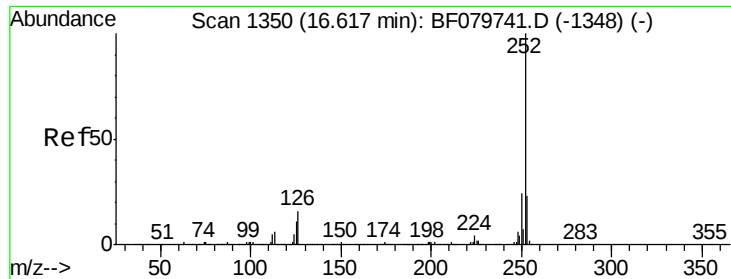
apatel
6/9/2015 8:10:33 AM



#87
Benzo(b)fluoranthene
Concen: 54.66 ng m
RT: 16.35 min Scan# 1327
Delta R.T. 0.09 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	837789		
253	22.8	17.4	26.2	
125	11.3	6.5	9.7#	





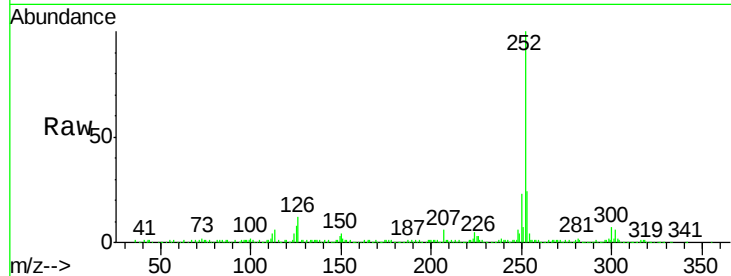
#88
Benzo(k)fluoranthene
Concen: 12.47 ng
RT: 16.39 min Scan# 1330
Delta R.T. 0.09 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Instrument :
BNA_F
ClientSampleId :
SB-12D

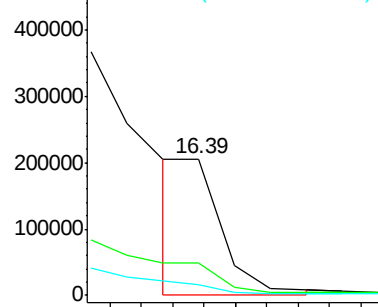
Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.0	17.8	26.8
125	8.3	8.4	12.6

Manual Integrations
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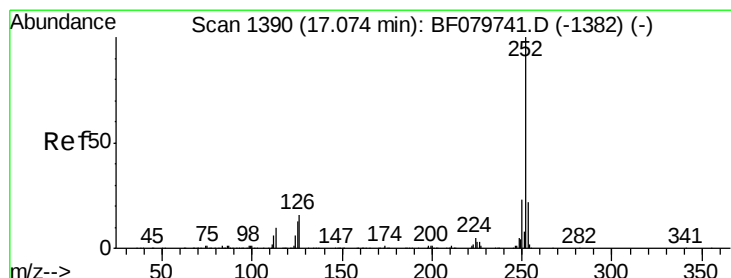
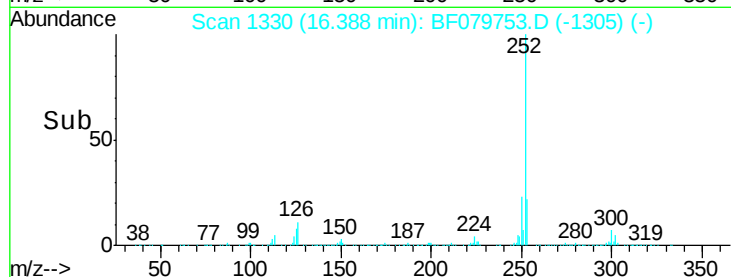
apatel
6/9/2015 8:10:33 AM



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



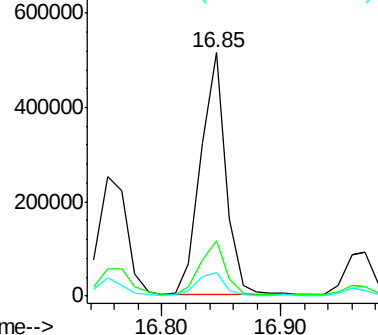
Time-->



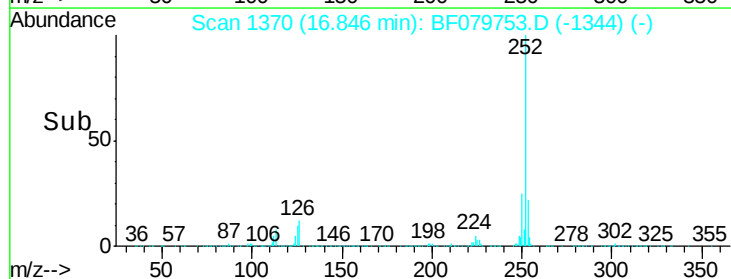
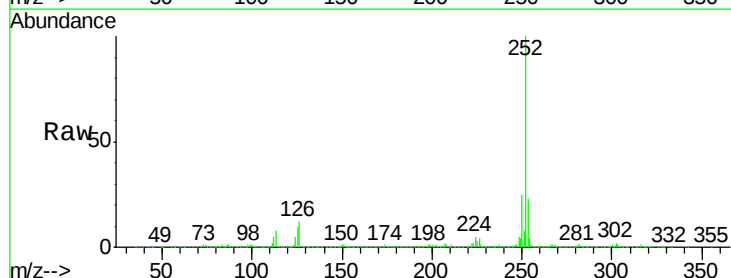
#89
Benzo(a)pyrene
Concen: 52.83 ng
RT: 16.85 min Scan# 1370
Delta R.T. 0.10 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

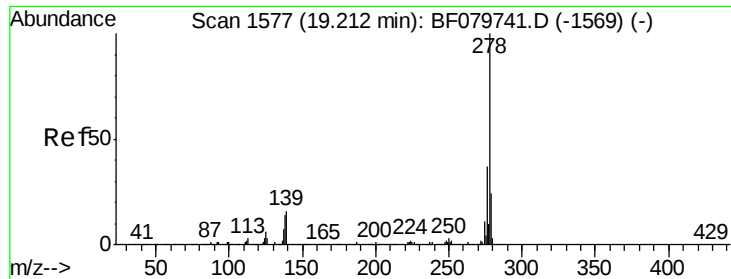
Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.8	17.6	26.4
125	9.8	7.4	11.0

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-->





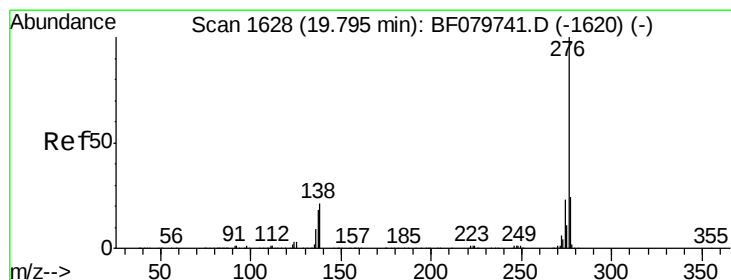
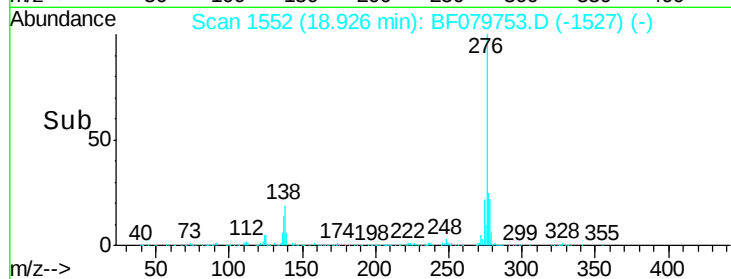
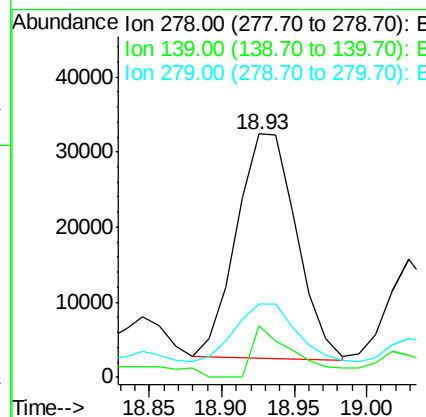
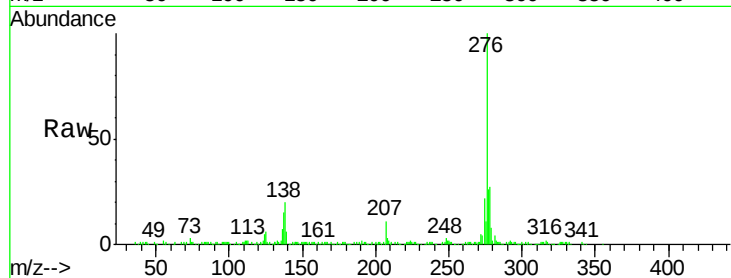
#90
Dibenzo(a,h)anthracene
Concen: 6.23 ng
RT: 18.93 min Scan# 1552
Delta R.T. 0.09 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Instrument :
BNA_F
ClientSampleId :
SB-12D

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.4	12.7	19.1#
279	30.3	19.4	29.2#

Manual Integrations
APPROVED

apatel
6/9/2015 8:10:33 AM



#91
Benzo(g,h,i)perylene
Concen: 21.98 ng
RT: 19.52 min Scan# 1604
Delta R.T. 0.10 min
Lab File: BF079753.D
Acq: 6 Jun 2015 4:02

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.8	28.2
138	25.0	18.2	27.2

