

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
 Data File : BF079608.D
 Acq On : 30 May 2015 17:45
 Operator : TP/IZ
 Sample : G2420-16
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.8(5)

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Quant Time: May 31 07:16:55 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 29 17:35:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	65211	20.00	ng	-0.02
21) Naphthalene-d8	8.51	136	257153	20.00	ng	-0.02
38) Acenaphthene-d10	10.67	164	123712	20.00	ng	-0.03
63) Phenanthrene-d10	12.50	188	226738	20.00	ng	-0.03
75) Chrysene-d12	15.78	240	248588	20.00	ng	-0.06
86) Perylene-d12	17.46	264	251616	20.00	ng	-0.21
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	377060	100.29	ng	-0.02
7) Phenol-d6	6.54	99	498724	104.07	ng	-0.02
23) Nitrobenzene-d5	7.63	82	285443	64.17	ng	-0.03
41) 2,4,6-Tribromophenol	11.66	330	140767	103.60	ng	-0.03
44) 2-Fluorobiphenyl	9.86	172	529540	61.07	ng	-0.02
78) Terphenyl-d14	14.50	244	587985	55.51	ng	-0.03
Target Compounds						Qvalue
37) 2-Methylnaphthalene	9.39	142	17405	2.03	ng	97
49) Dimethylphthalate	10.38	163	52008	5.71	ng	# 99
51) Acenaphthene	10.71	154	18352	2.53	ng	99
70) Phenanthrene	12.54	178	330340	26.56	ng	99
71) Anthracene	12.61	178	59447	4.71	ng	100
72) Carbazole	12.82	167	49813	4.10	ng	98
74) Fluoranthene	14.01	202	510734	38.29	ng	99
77) Pyrene	14.29	202	421788	27.39	ng	99
80) Benzo(a)anthracene	15.77	228	231141m	16.16	ng	
82) Chrysene	15.82	228	239922m	17.65	ng	
85) Indeno(1,2,3-cd)pyrene	18.74	276	150404m	8.60	ng	
87) Benzo(b)fluoranthene	17.04	252	356091m	24.81	ng	
88) Benzo(k)fluoranthene	17.06	252	72374m	5.64	ng	
89) Benzo(a)pyrene	17.41	252	194633	14.15	ng	98
91) Benzo(g,h,i)perylene	19.11	276	132973	8.11	ng	98

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

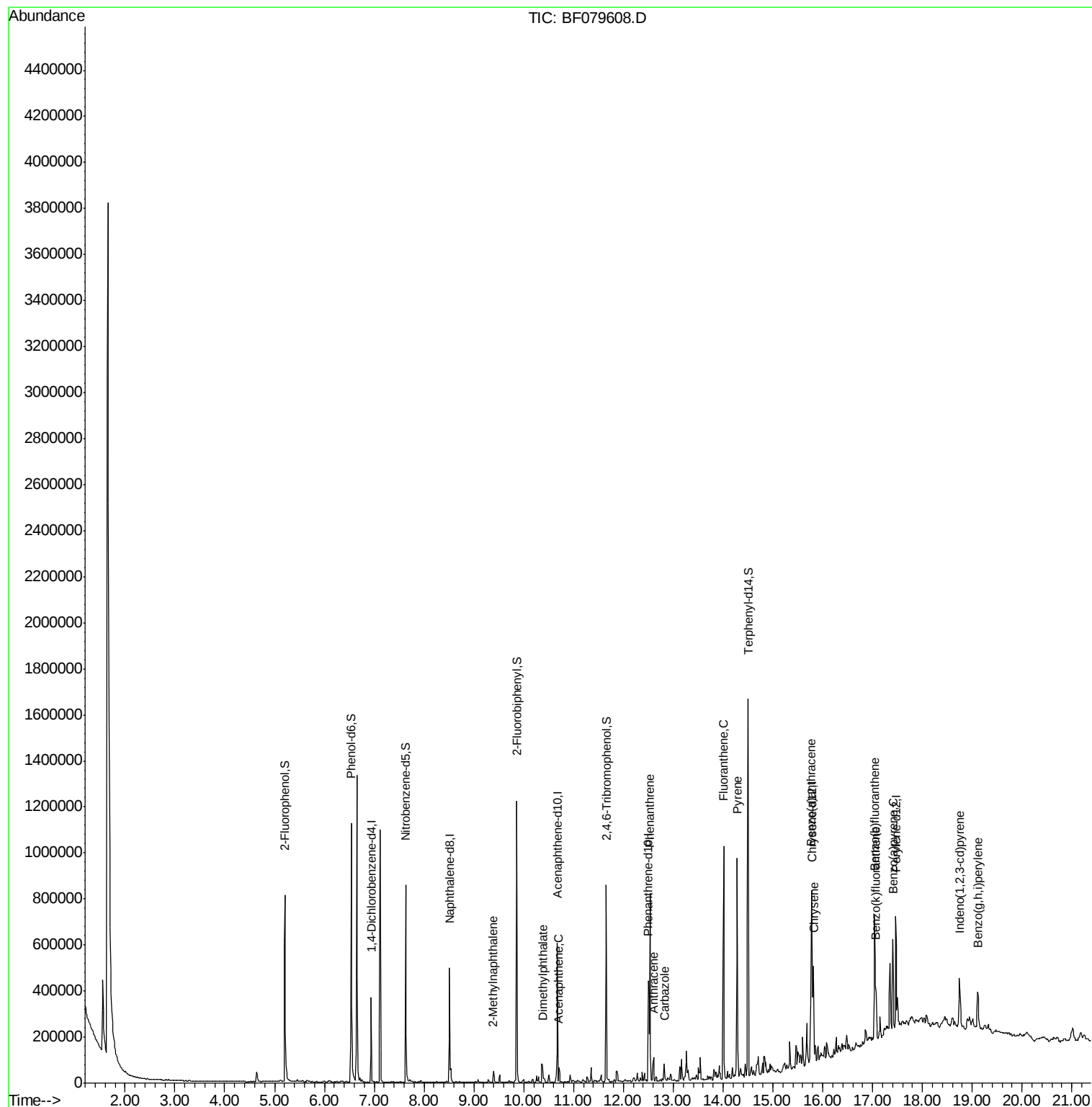
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
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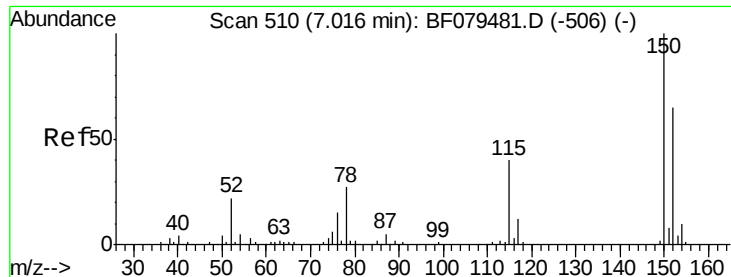
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#1

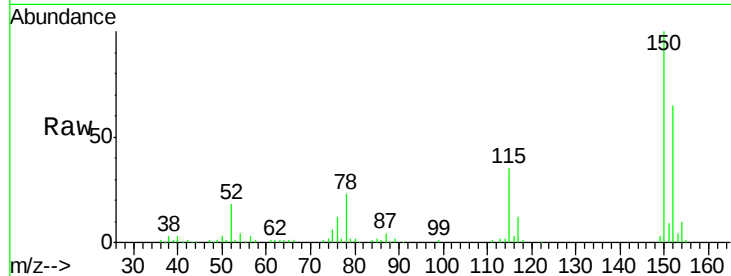
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.94 min Scan# 503
Delta R.T. -0.02 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

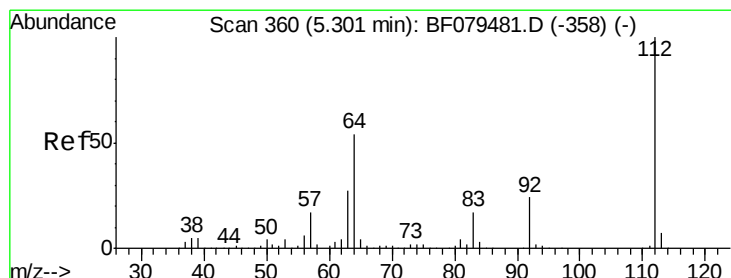
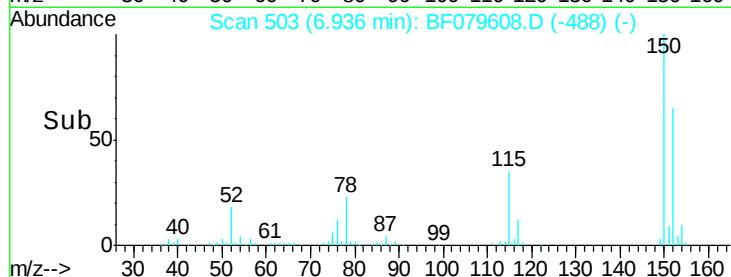
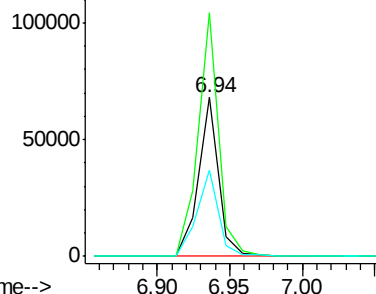
Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.0	186.0
115	54.2	49.6	74.4

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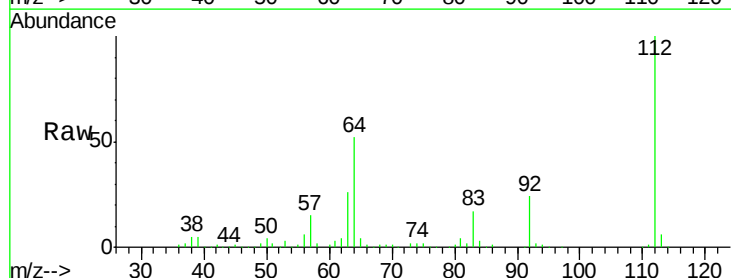
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



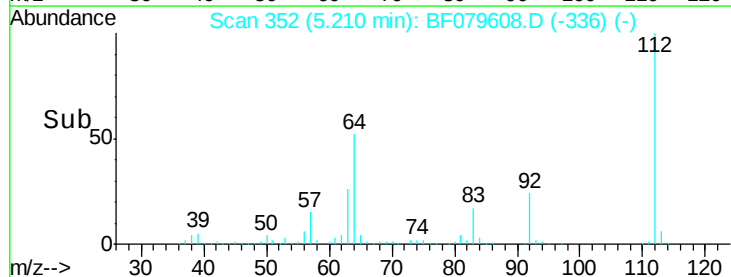
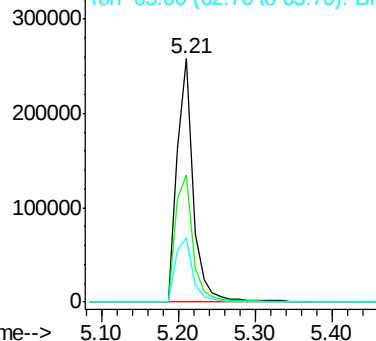
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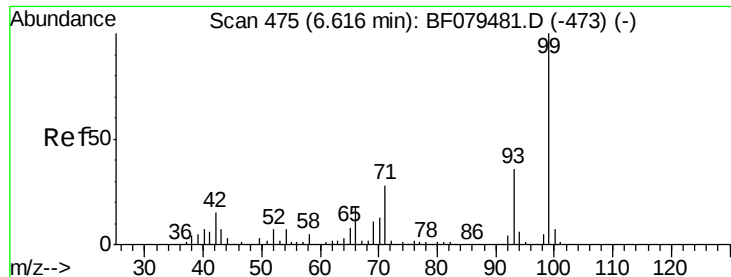
2-Fluorophenol
Concen: 100.29 ng
RT: 5.21 min Scan# 352
Delta R.T. -0.02 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.4	43.5	65.3
63	26.5	21.8	32.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 104.07 ng

RT: 6.54 min Scan# 468

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

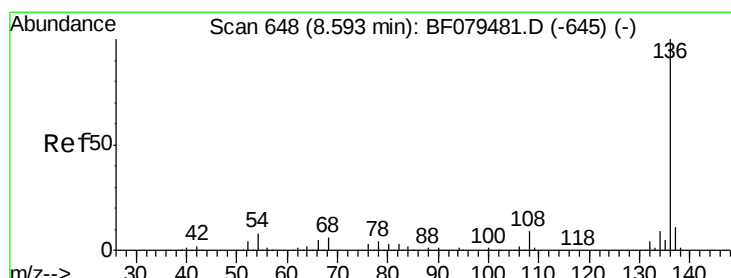
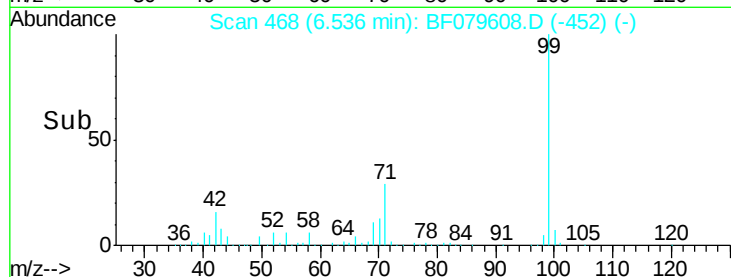
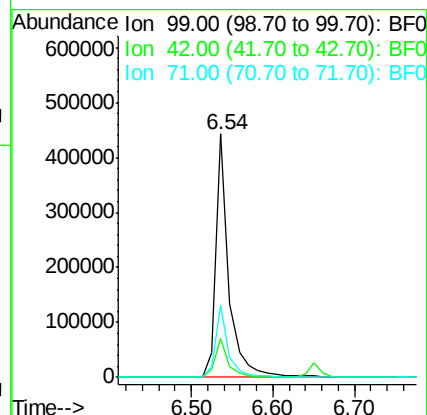
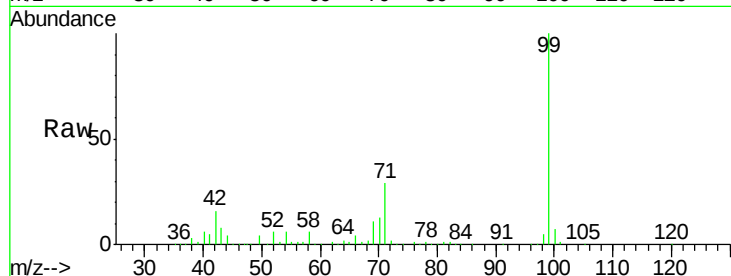
ClientSampleId :

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Tgt Ion:	99	Resp:	498724
Ion Ratio	Lower	Upper	
99	100		
42	15.9	11.9	17.9
71	29.4	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

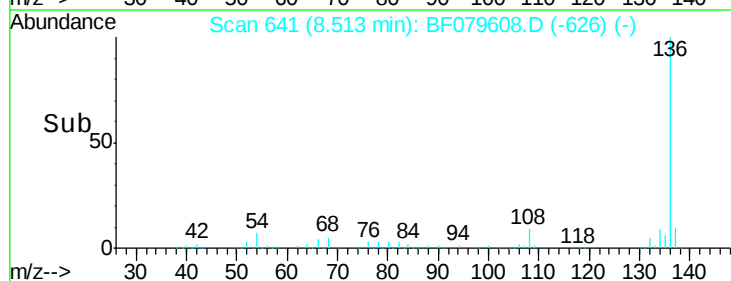
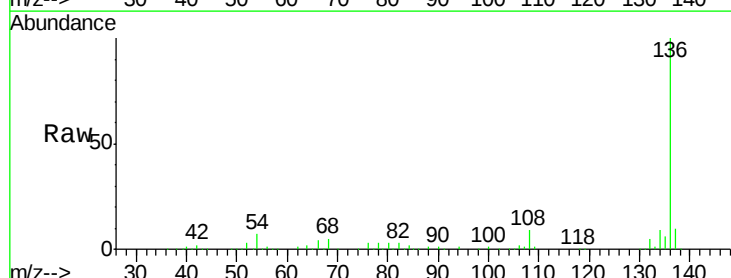
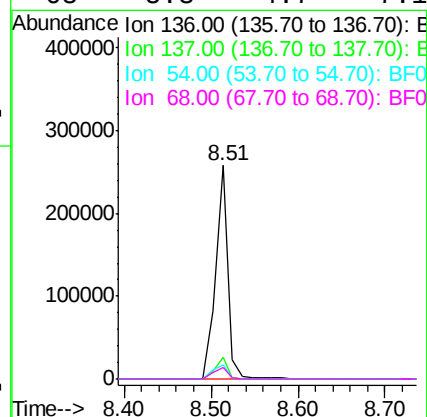
RT: 8.51 min Scan# 641

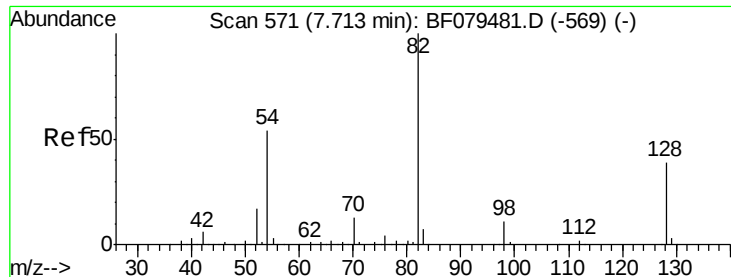
Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Tgt Ion:	136	Resp:	257153
Ion Ratio	Lower	Upper	
136	100		
137	10.0	8.5	12.7
54	6.6	6.6	9.8
68	5.3	4.7	7.1





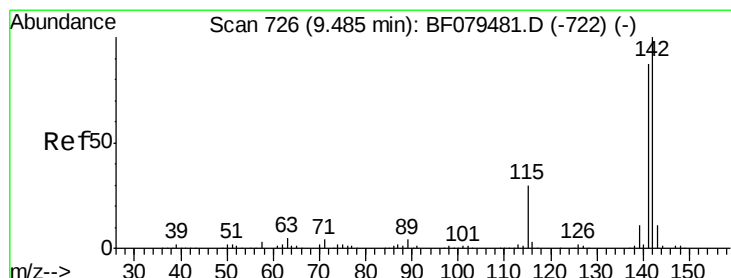
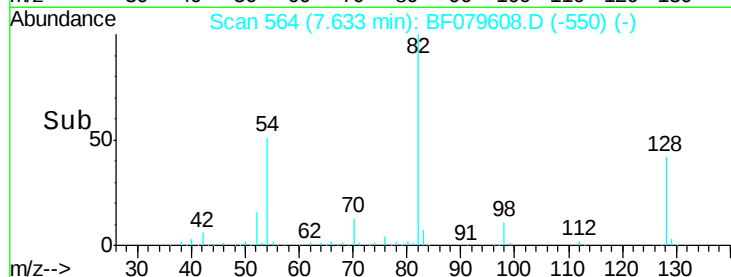
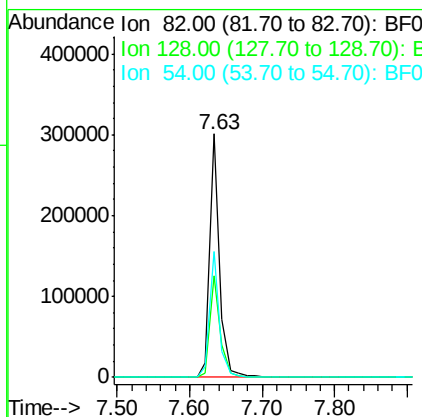
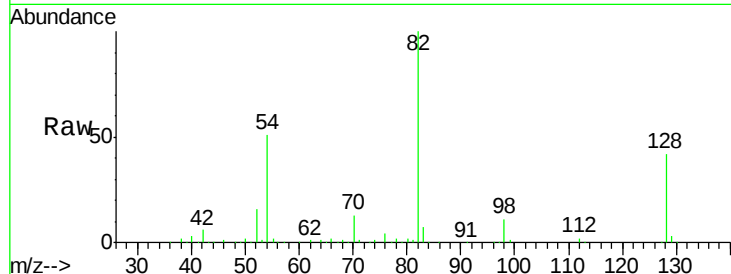
#23
 Nitrobenzene-d5
 Concen: 64.17 ng
 RT: 7.63 min Scan# 564
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

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 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
82	100	285443		
128	41.9	30.8	46.2	
54	51.5	42.8	64.2	

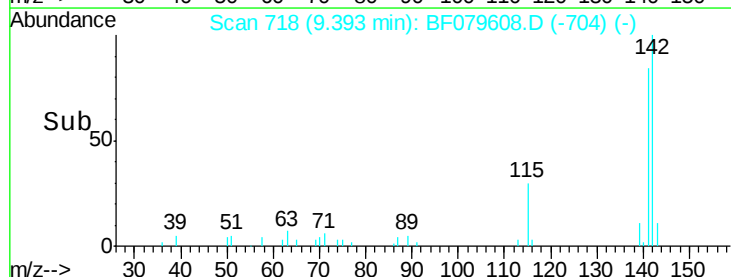
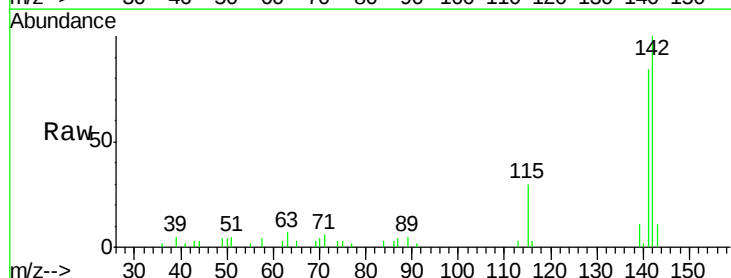
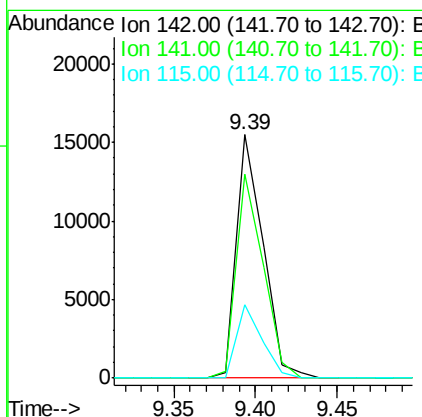
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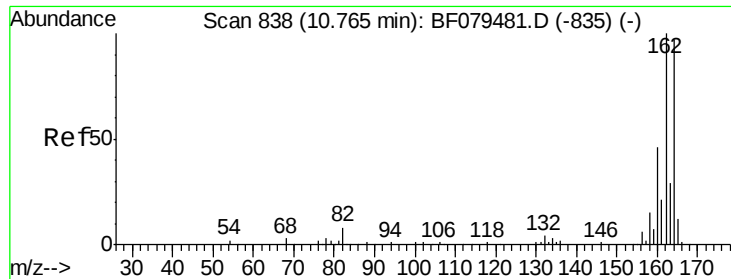
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#37
 2-Methylnaphthalene
 Concen: 2.03 ng
 RT: 9.39 min Scan# 718
 Delta R.T. -0.03 min
 Lab File: BF079608.D
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Tgt Ion	Ratio	Resp	Lower	Upper
142	100	17405		
141	83.9	69.5	104.3	
115	30.2	23.8	35.6	





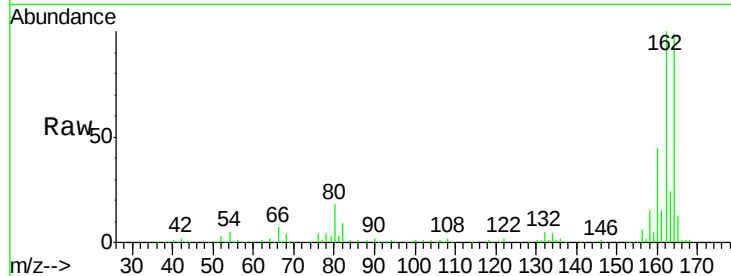
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.67 min Scan# 830
Delta R.T. -0.03 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

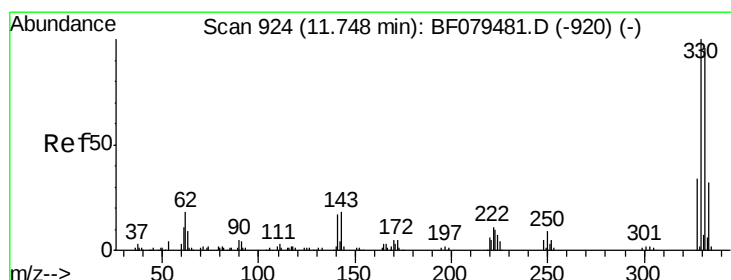
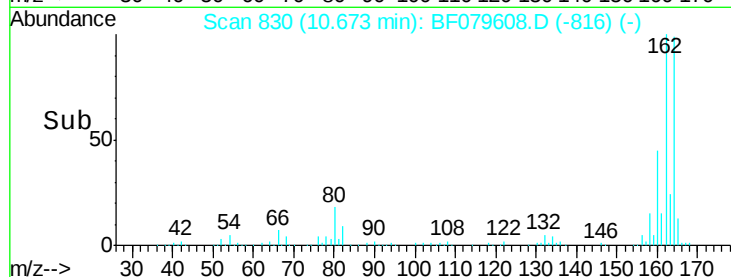
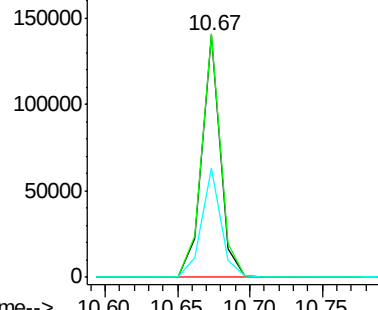
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	123712		
162	100.6	82.6	124.0	
160	45.1	37.7	56.5	

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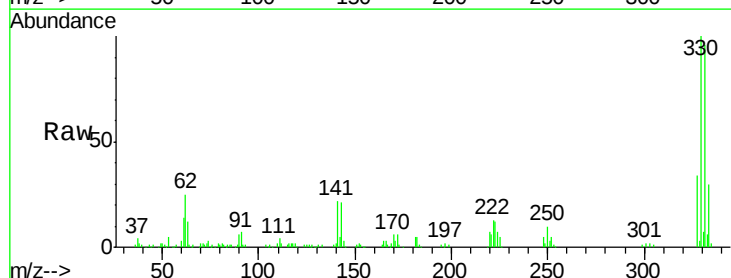


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

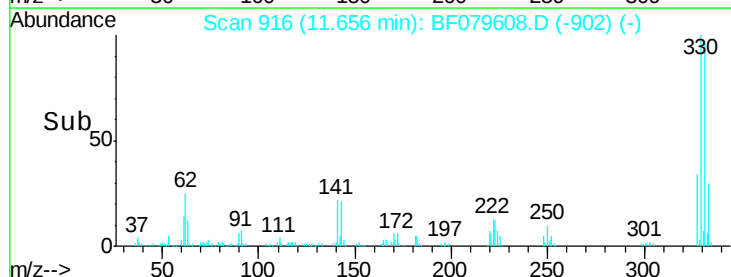
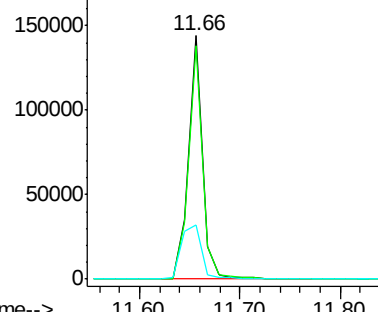


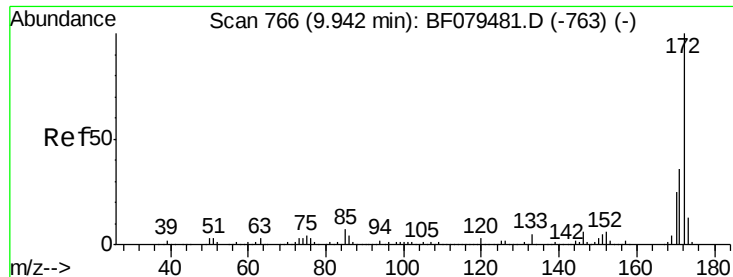
#41
2,4,6-Tribromophenol
Concen: 103.60 ng
RT: 11.66 min Scan# 916
Delta R.T. -0.03 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	140767		
332	96.1	0.0	0.0#	
141	32.8	0.0	0.0#	



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





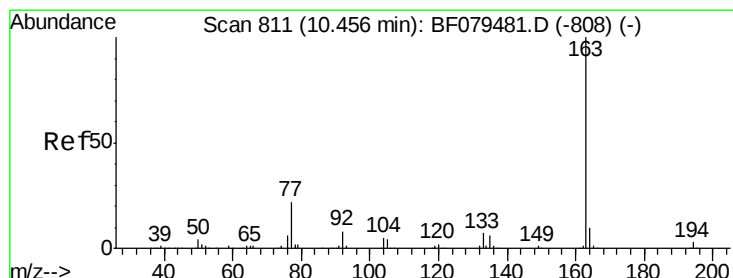
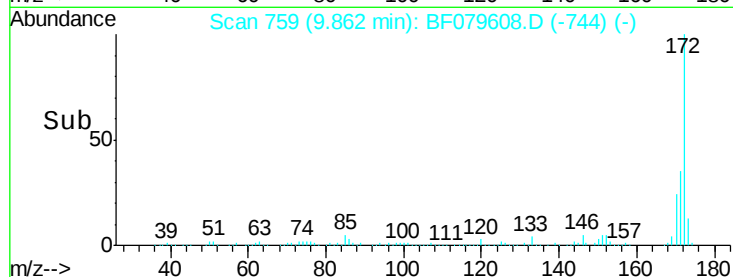
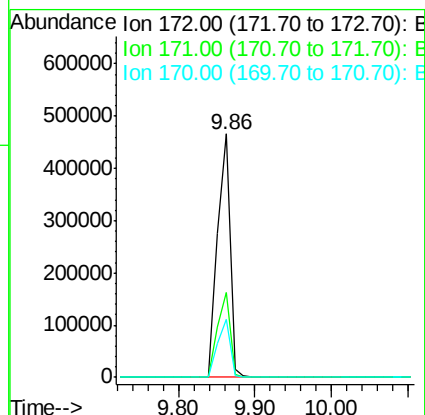
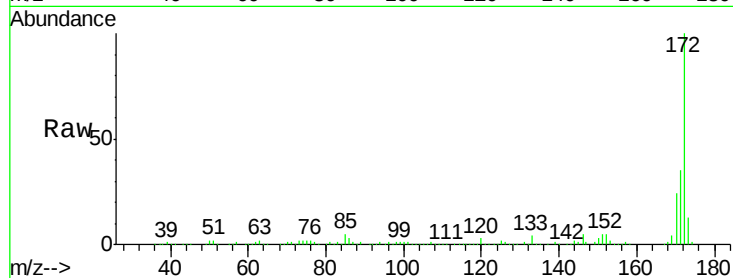
#44
 2-Fluorobiphenyl
 Concen: 61.07 ng
 RT: 9.86 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Instrument :
 BNA_F
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 PENRD8.8(5)

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	529540		
171	34.7	28.5	42.7	
170	23.6	19.7	29.5	

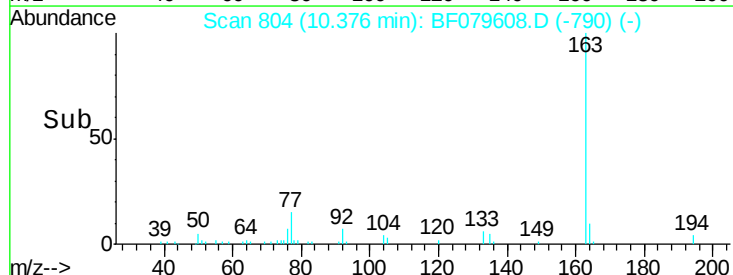
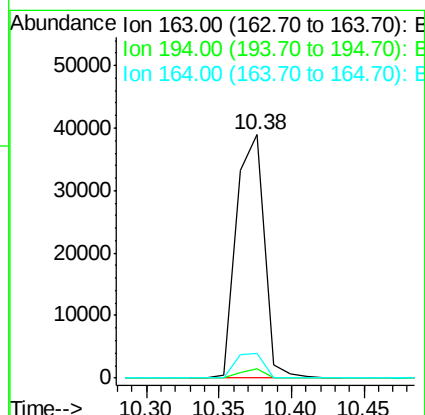
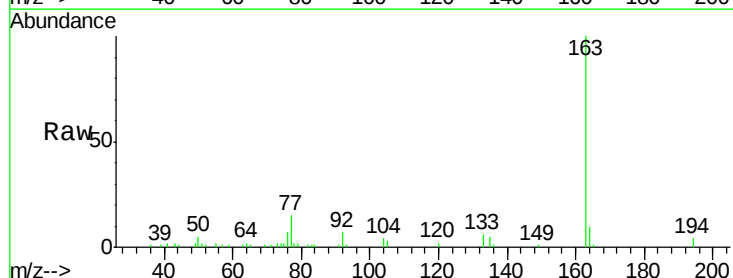
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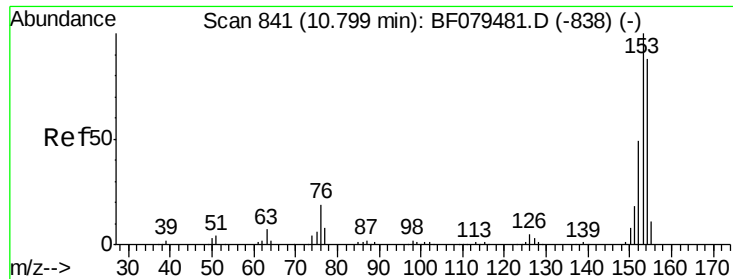
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#49
 Dimethylphthalate
 Concen: 5.71 ng
 RT: 10.38 min Scan# 804
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	52008		
194	3.8	2.4	3.6#	
164	10.0	8.2	12.4	





#51

Acenaphthene

Concen: 2.53 ng

RT: 10.71 min Scan# 833

Delta R.T. -0.03 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

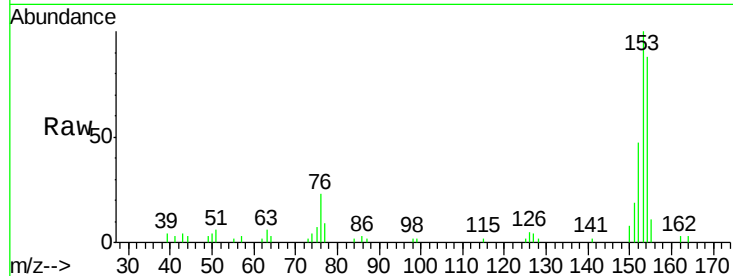
ClientSampleId :

PENRD8.8(5)

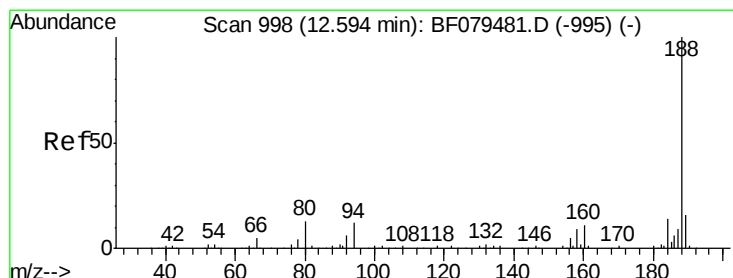
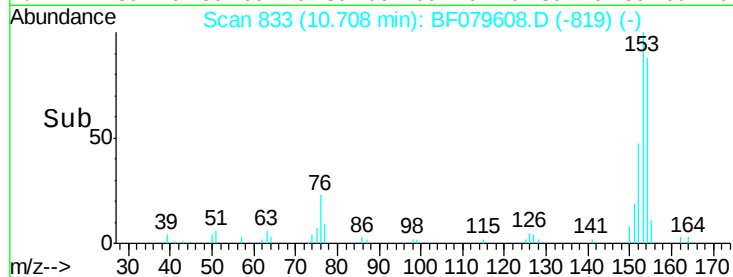
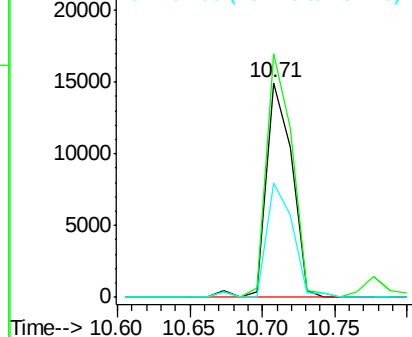
Tgt Ion:	154	Resp:	18352
Ion Ratio	Lower	Upper	
154	100		
153	113.3	91.1	136.7
152	53.3	44.6	66.8

Manual Integrations
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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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.50 min Scan# 990

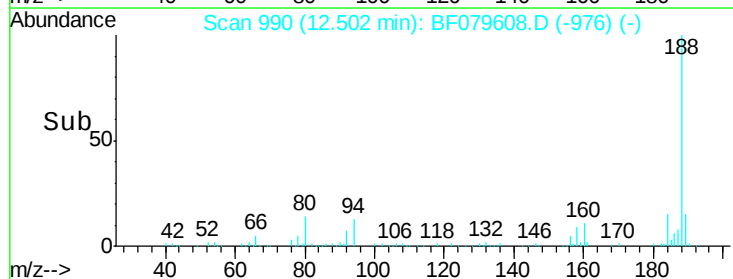
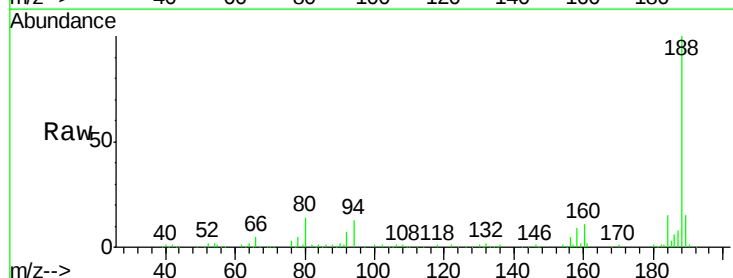
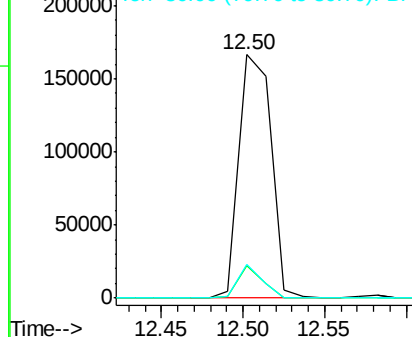
Delta R.T. -0.03 min

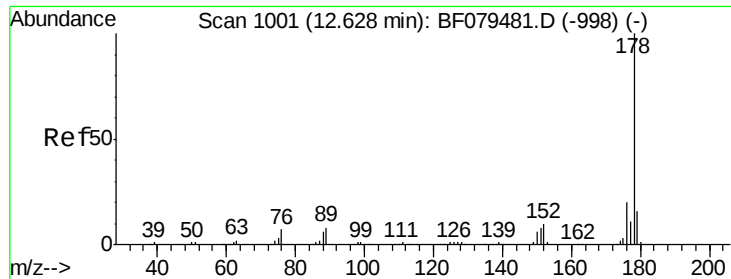
Lab File: BF079608.D

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Tgt Ion:	188	Resp:	226738
Ion Ratio	Lower	Upper	
188	100		
94	13.3	9.8	14.6
80	14.0	10.5	15.7

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





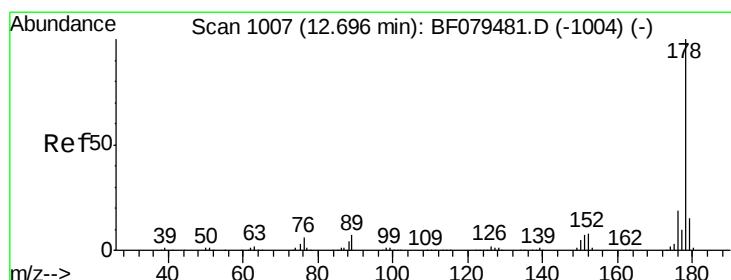
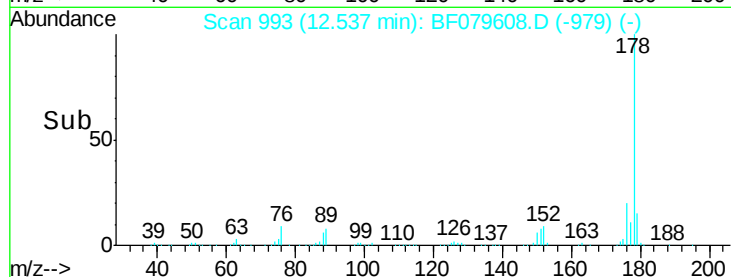
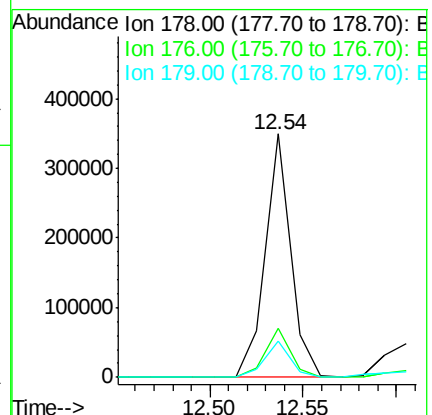
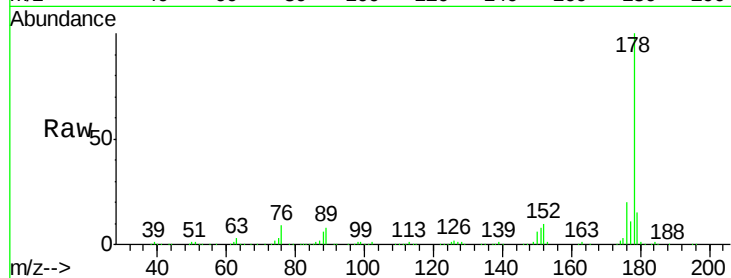
#70
Phenanthrene
Concen: 26.56 ng
RT: 12.54 min Scan# 993
Delta R.T. -0.03 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.7	23.5
179	15.0	12.4	18.6

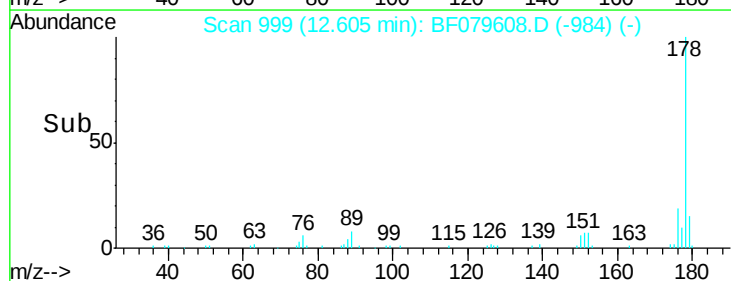
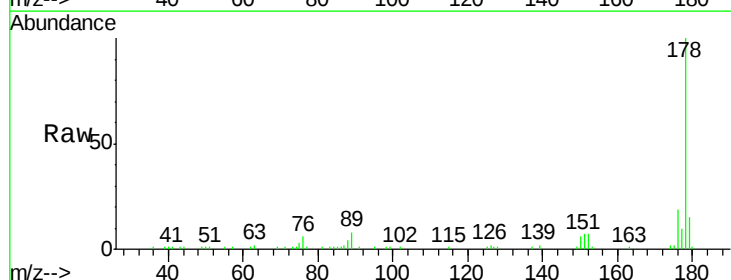
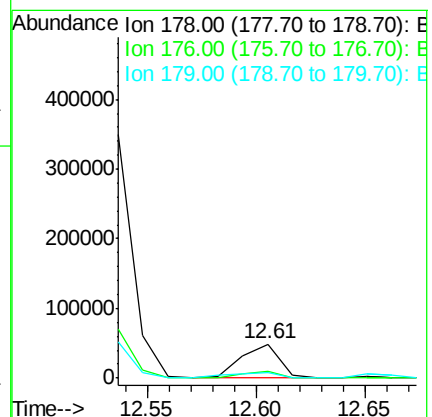
Manual Integrations
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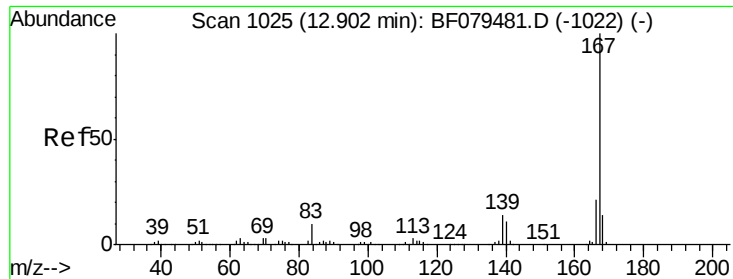
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#71
Anthracene
Concen: 4.71 ng
RT: 12.61 min Scan# 999
Delta R.T. -0.02 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.5	12.2	18.4





#72

Carbazole

Concen: 4.10 ng

RT: 12.82 min Scan# 1018

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

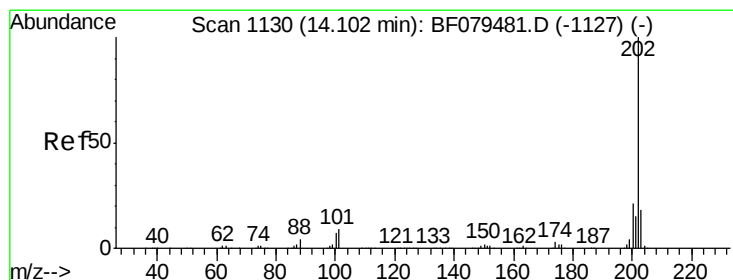
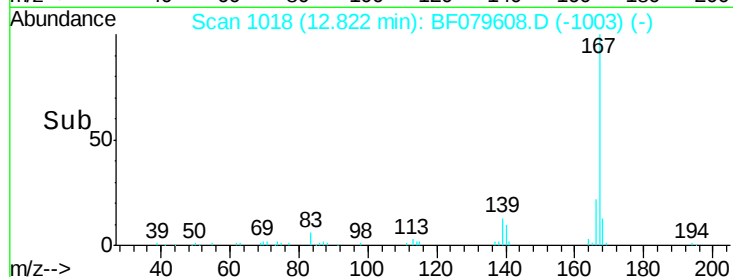
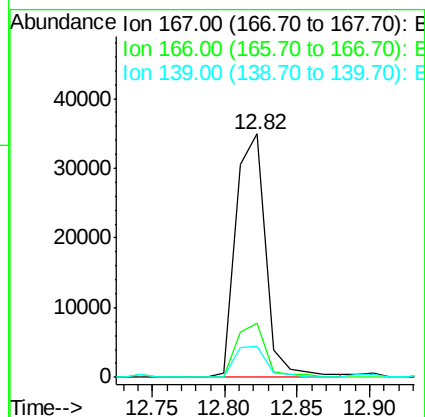
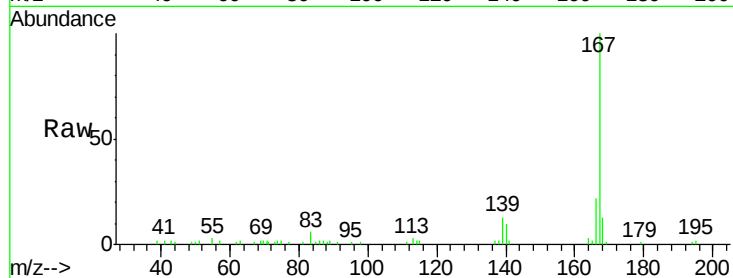
ClientSampleId :

PENRD8.8(5)

Tgt Ion:	167	Resp:	49813
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.0	25.4
139	12.7	11.2	16.8

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#74

Fluoranthene

Concen: 38.29 ng

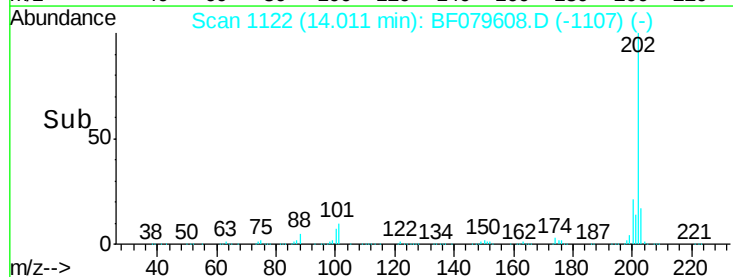
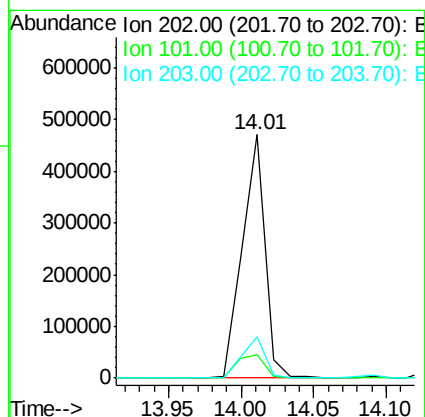
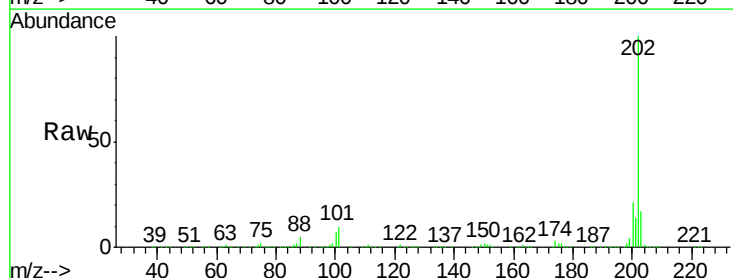
RT: 14.01 min Scan# 1122

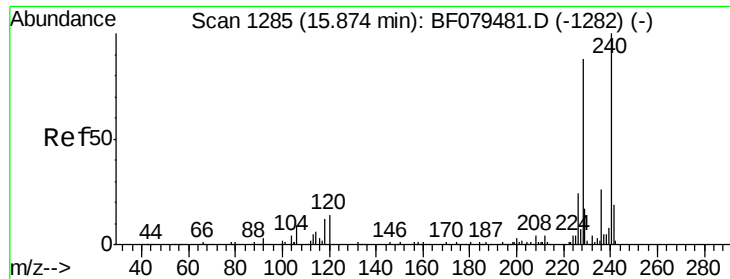
Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Tgt Ion:	202	Resp:	510734
Ion Ratio	Lower	Upper	
202	100		
101	9.6	0.0	29.3
203	17.0	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.78 min Scan# 1277

Delta R.T. -0.06 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

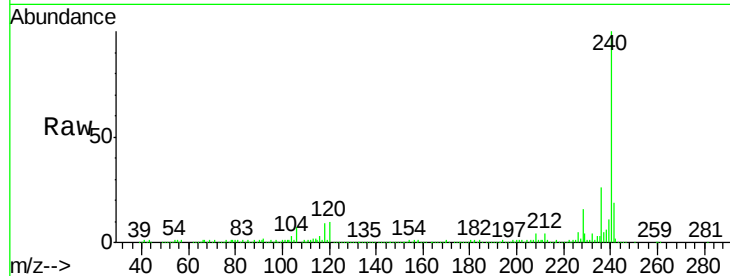
ClientSampleId :

PENRD8.8(5)

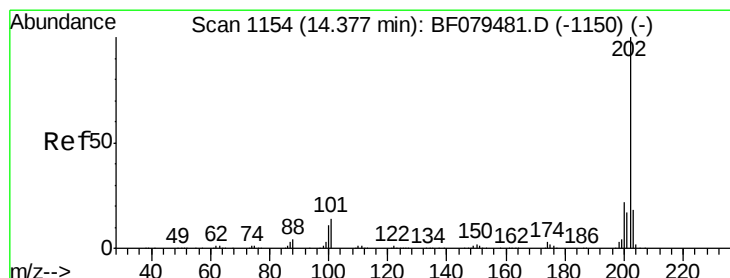
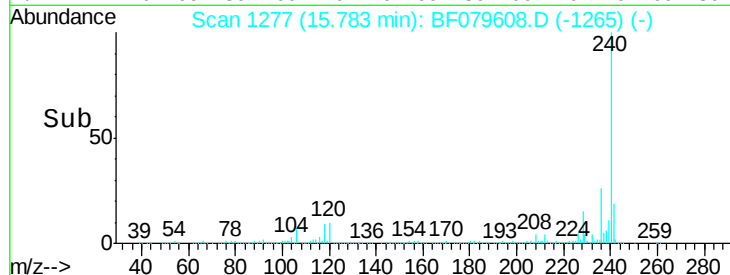
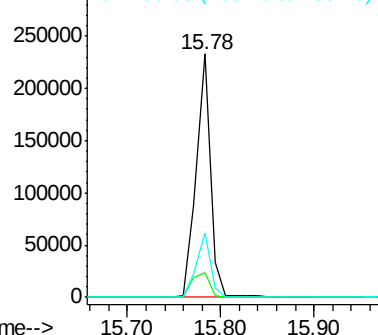
Tgt Ion:	240	Resp:	248588
Ion Ratio		Lower	Upper
240	100		
120	9.9	10.8	16.2#
236	26.4	21.0	31.6

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 27.39 ng

RT: 14.29 min Scan# 1146

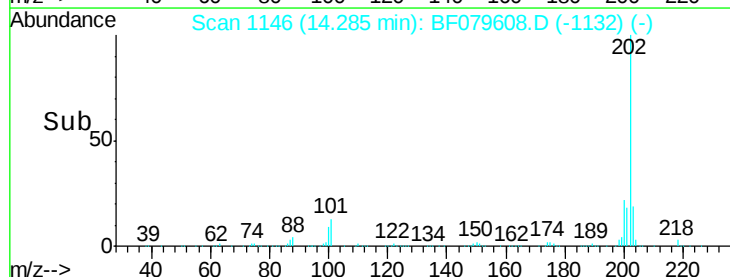
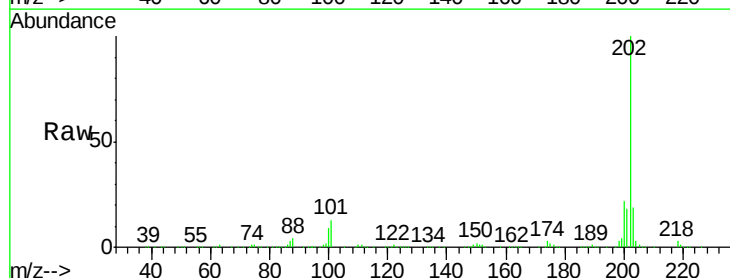
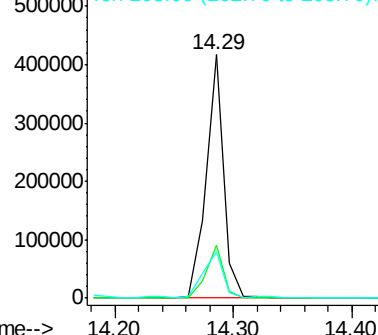
Delta R.T. -0.03 min

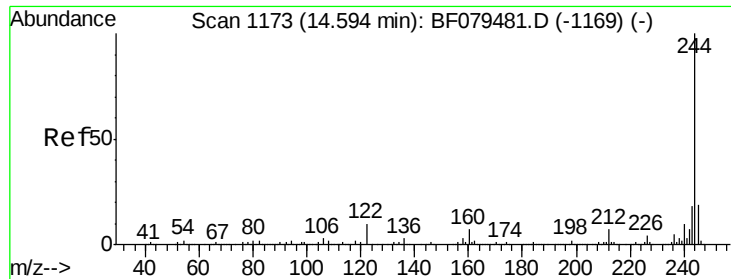
Lab File: BF079608.D

Acq: 30 May 2015 17:45

Tgt Ion:	202	Resp:	421788
Ion Ratio		Lower	Upper
202	100		
200	21.8	17.5	26.3
203	19.2	14.4	21.6

Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





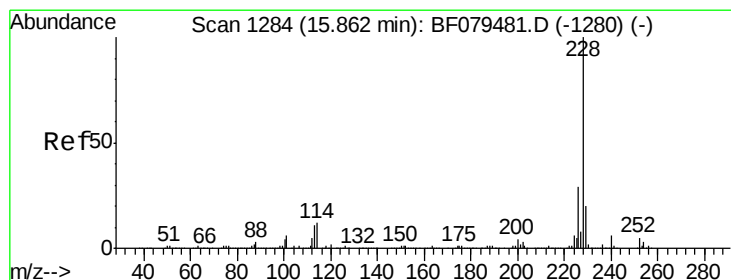
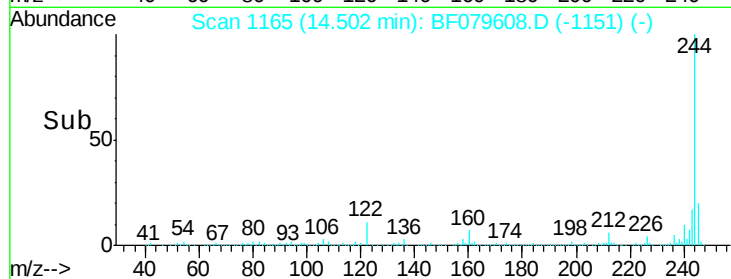
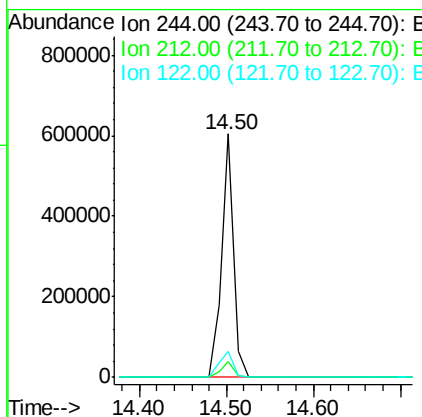
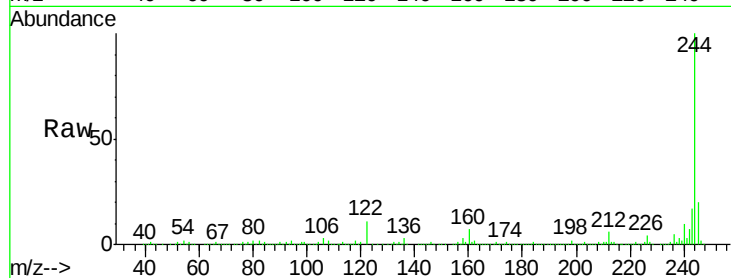
#78
 Terphenyl-d14
 Concen: 55.51 ng
 RT: 14.50 min Scan# 1165
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.8(5)

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.3	5.2	7.8
122	10.7	8.0	12.0

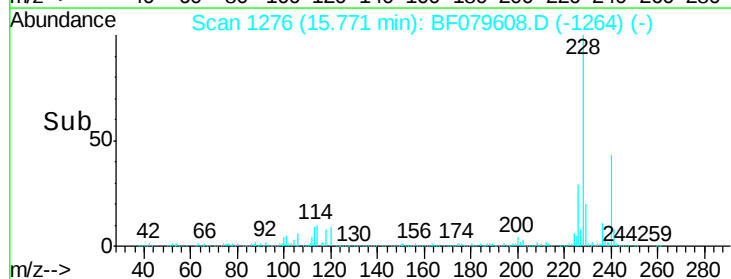
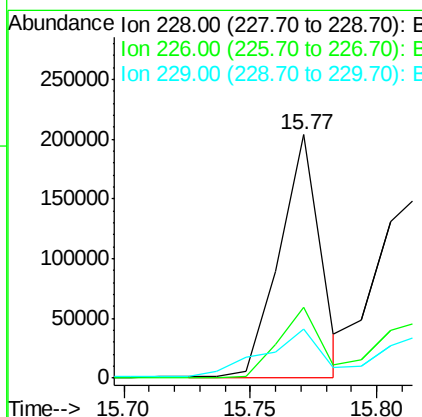
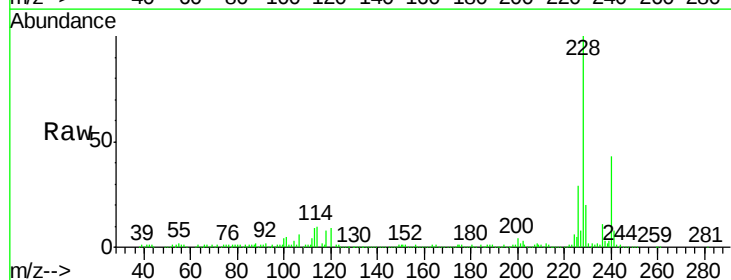
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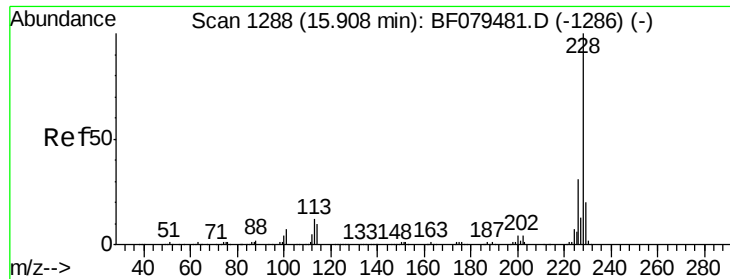
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#80
 Benzo(a)anthracene
 Concen: 16.16 ng m
 RT: 15.77 min Scan# 1276
 Delta R.T. -0.06 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.3	22.8	34.2
229	20.3	15.9	23.9





#82

Chrysene

Concen: 17.65 ng m

RT: 15.82 min Scan# 1280

Delta R.T. -0.06 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

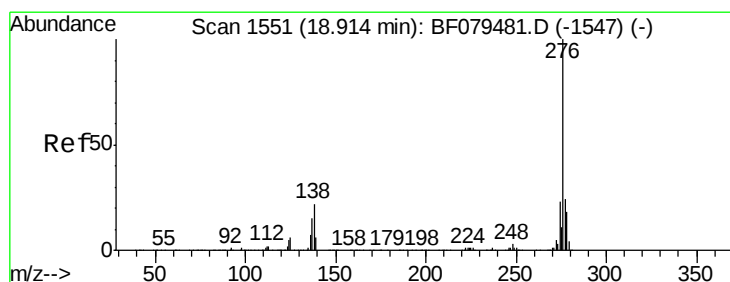
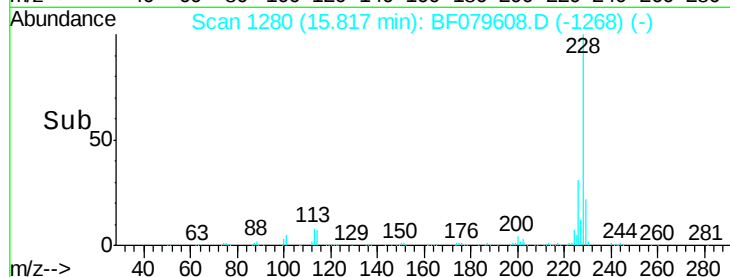
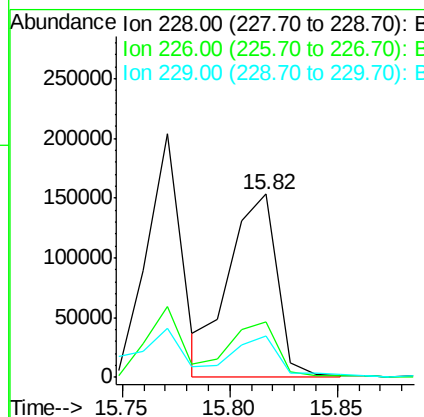
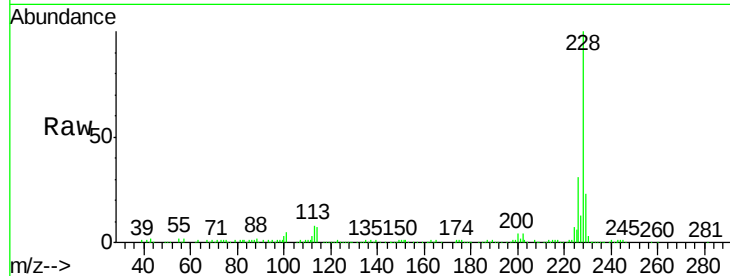
ClientSampleId :

PENRD8.8(5)

Tgt Ion:	228	Resp:	239922
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.0	37.4
229	22.9	15.9	23.9

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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.60 ng m

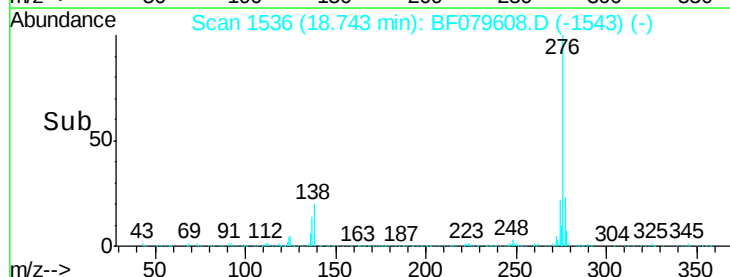
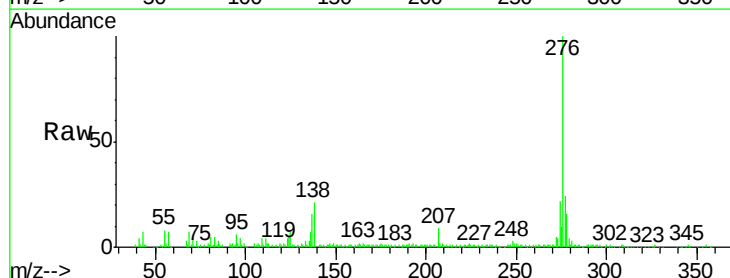
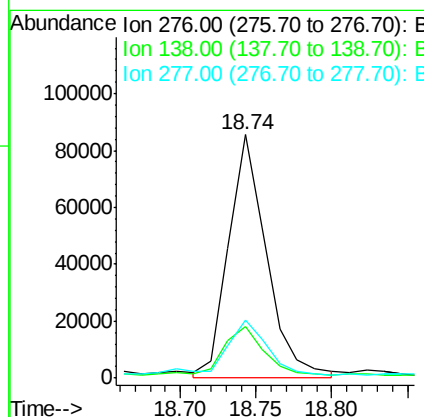
RT: 18.74 min Scan# 1536

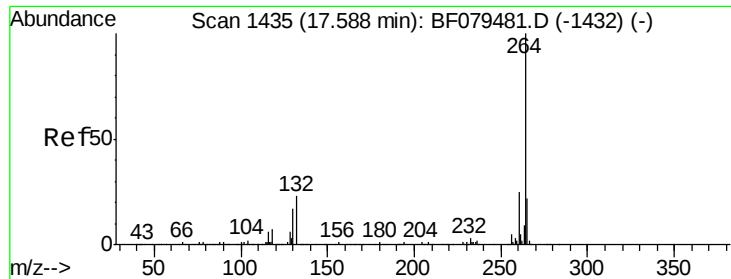
Delta R.T. -0.27 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Tgt Ion:	276	Resp:	150404
Ion Ratio	Lower	Upper	
276	100		
138	3.9	21.4	32.2#
277	0.0	19.8	29.6#





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.46 min Scan# 1424

Delta R.T. -0.21 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

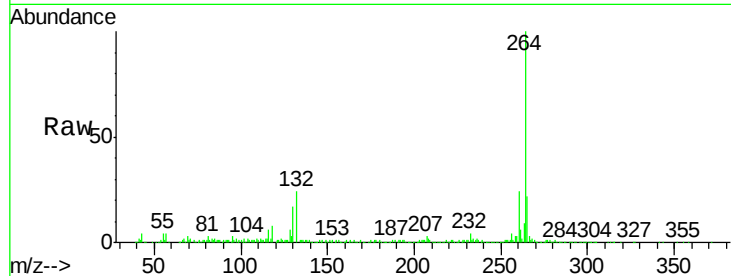
ClientSampleId :

PENRD8.8(5)

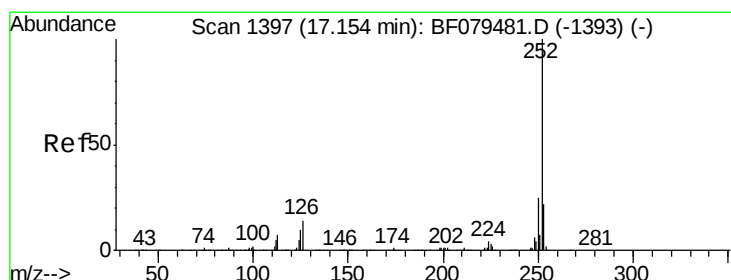
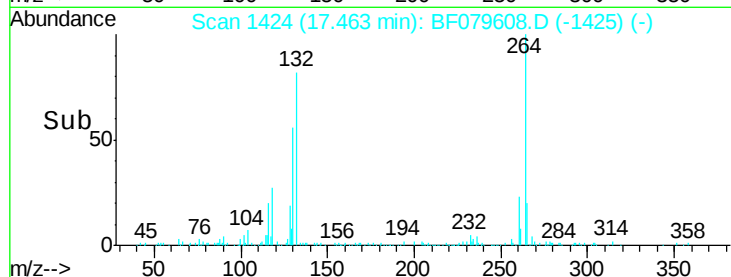
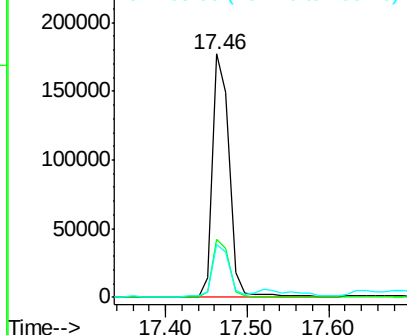
Tgt Ion:	264	Resp:	251616
Ion Ratio		Lower	Upper
264	100		
260	23.8	19.8	29.8
265	21.7	17.8	26.6

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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



#87

Benzo(b)fluoranthene

Concen: 24.81 ng m

RT: 17.04 min Scan# 1387

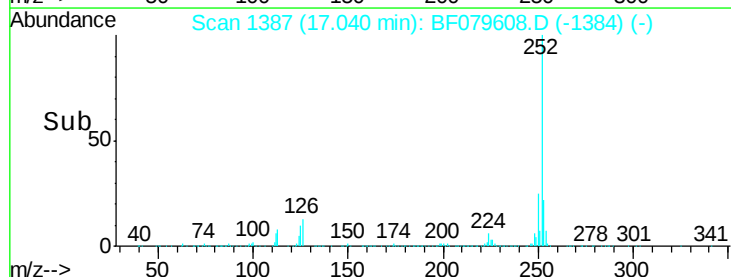
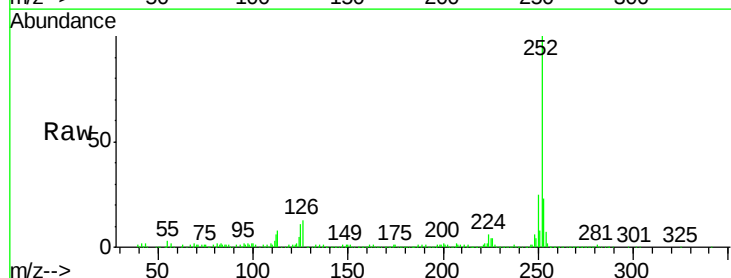
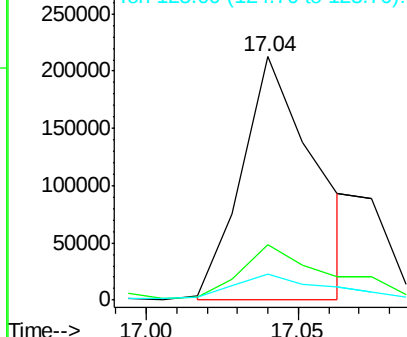
Delta R.T. -0.16 min

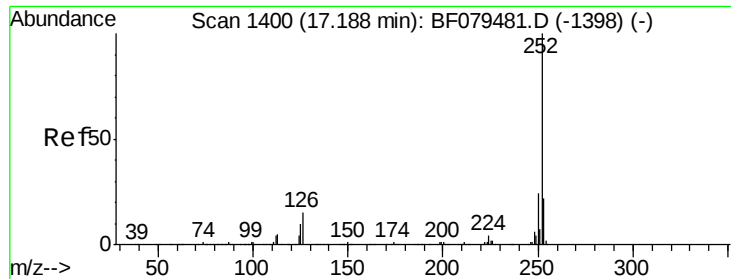
Lab File: BF079608.D

Acq: 30 May 2015 17:45

Tgt Ion:	252	Resp:	356091
Ion Ratio		Lower	Upper
252	100		
253	22.9	17.6	26.4
125	10.8	7.8	11.6

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





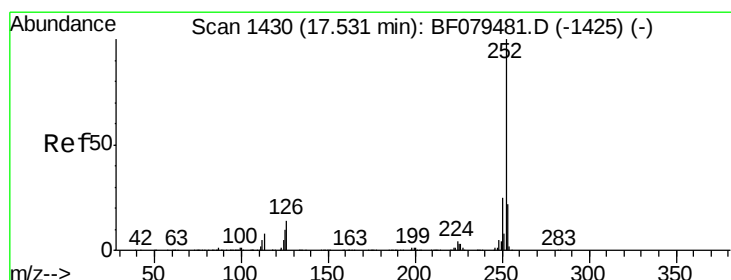
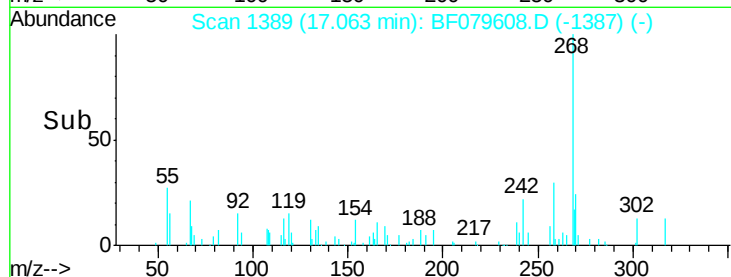
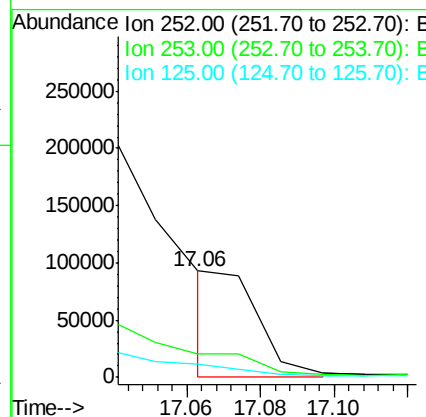
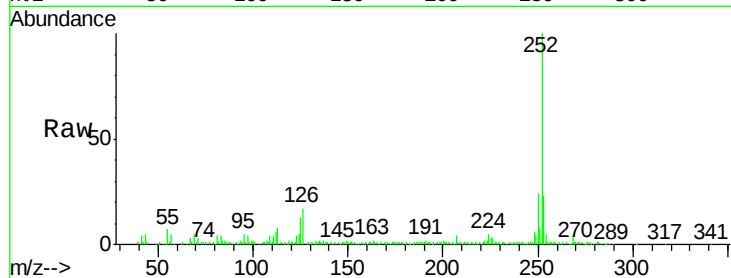
#88
Benzo(k)fluoranthene
Concen: 5.64 ng m
RT: 17.06 min Scan# 1389
Delta R.T. -0.17 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.2	25.8
125	13.0	6.8	10.2

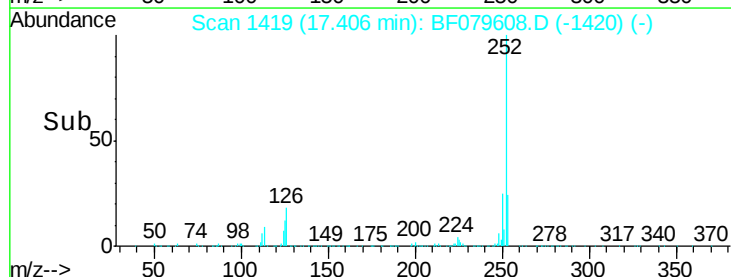
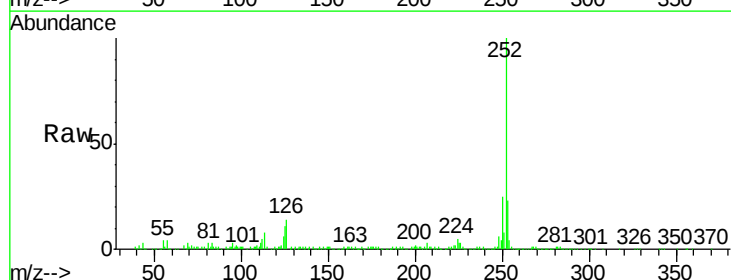
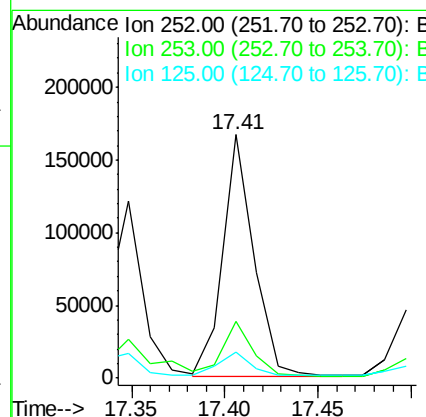
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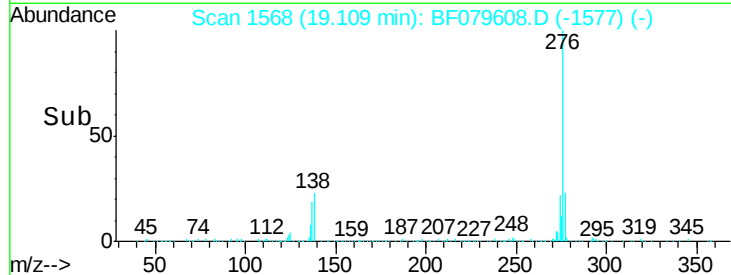
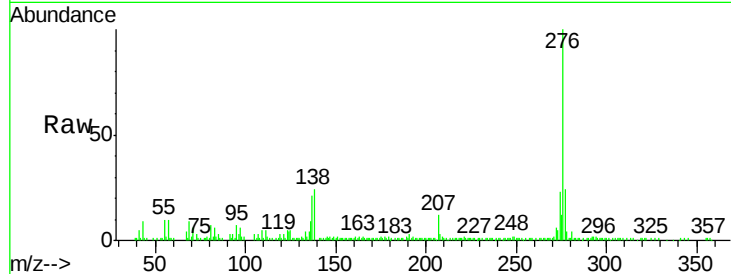
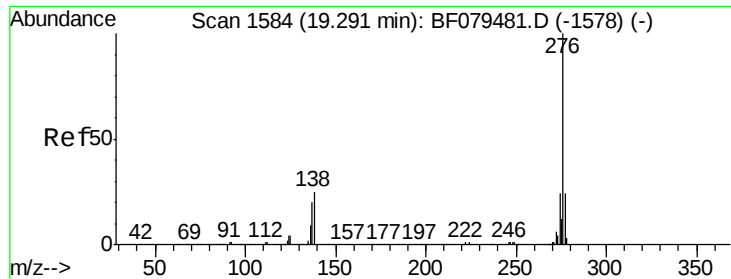
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#89
Benzo(a)pyrene
Concen: 14.15 ng
RT: 17.41 min Scan# 1419
Delta R.T. -0.21 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	10.8	7.9	11.9





#91

Benzo(g,h,i)perylene

Concen: 8.11 ng

RT: 19.11 min Scan# 1568

Delta R.T. -0.30 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

Tgt Ion:	276	Resp:	132973
Ion Ratio	Lower	Upper	
276	100		
277	24.5	19.1	28.7
138	23.8	20.1	30.1

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