

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060515\
 Data File : BF079758.D
 Acq On : 6 Jun 2015 6:27
 Operator : TP/IZ
 Sample : G2450-07 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.5-SP

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Quant Time: Jun 08 16:32:38 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	53670	20.00	ng	0.00
21) Naphthalene-d8	8.79	136	220816	20.00	ng	0.00
38) Acenaphthene-d10	10.56	164	122521	20.00	ng	0.00
63) Phenanthrene-d10	12.07	188	246500	20.00	ng	0.00
75) Chrysene-d12	14.99	240	262404	20.00	ng	0.06
86) Perylene-d12	16.91	264	273019	20.00	ng	0.09
System Monitoring Compounds						
5) 2-Fluorophenol	6.10	112	178370	55.70	ng	0.00
7) Phenol-d6	7.08	99	245590	59.38	ng	0.00
23) Nitrobenzene-d5	8.04	82	130468	36.27	ng	0.00
41) 2,4,6-Tribromophenol	11.36	330	62469	53.31	ng	0.00
44) 2-Fluorobiphenyl	9.86	172	308411	34.10	ng	0.00
78) Terphenyl-d14	13.74	244	400432	34.95	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	8.81	128	36902	3.19	ng	99
37) 2-Methylnaphthalene	9.50	142	17489	2.37	ng	# 93
48) Acenaphthylene	10.42	152	243916	16.95	ng	100
49) Dimethylphthalate	10.24	163	33773	3.58	ng	98
51) Acenaphthene	10.59	154	31585	3.88	ng	99
54) Dibenzofuran	10.76	168	27703	2.40	ng	98
57) Fluorene	11.11	166	39392	3.94	ng	# 95
70) Phenanthrene	12.09	178	477791	33.11	ng	98
71) Anthracene	12.15	178	586571	41.22	ng	99
72) Carbazole	12.30	167	83914	6.20	ng	99
74) Fluoranthene	13.35	202	1886088	119.36	ng	98
77) Pyrene	13.60	202	1853876	115.24	ng	99
80) Benzo(a)anthracene	14.98	228	1443636m	89.87	ng	
82) Chrysene	15.03	228	1491588	100.45	ng	99
85) Indeno(1,2,3-cd)pyrene	18.91	276	523892	30.48	ng	95
87) Benzo(b)fluoranthene	16.34	252	1762770m	103.94	ng	
88) Benzo(k)fluoranthene	16.38	252	615758m	37.85	ng	
89) Benzo(a)pyrene	16.83	252	944203	60.31	ng	# 96
90) Dibenzo(a,h)anthracene	18.93	278	142171	9.41	ng	98
91) Benzo(a,h,i)perylene	19.52	276	448571	28.71	ng	98

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

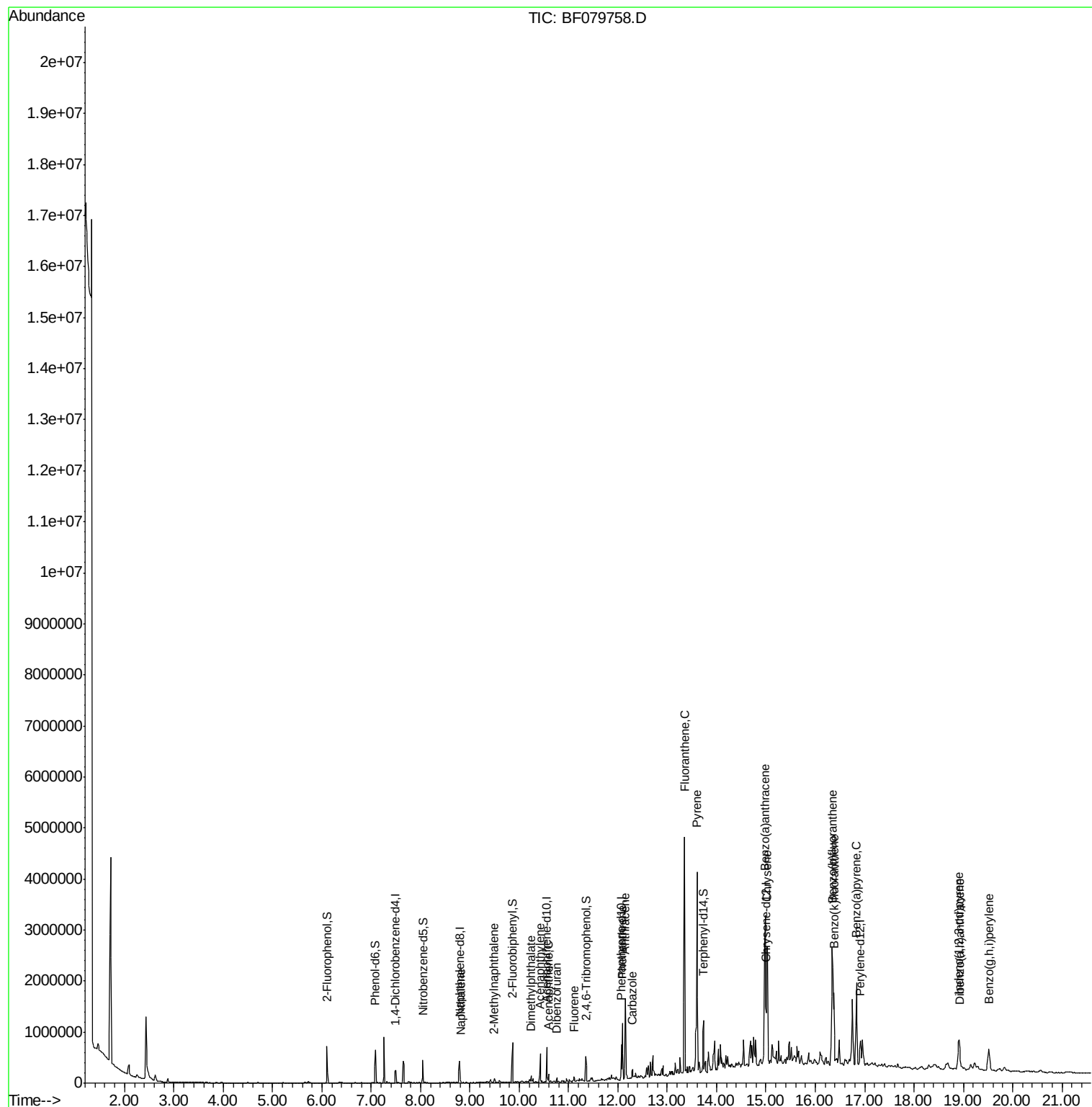
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060515\
Data File : BF079758.D
Acq On : 6 Jun 2015 6:27
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Sample : G2450-07 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

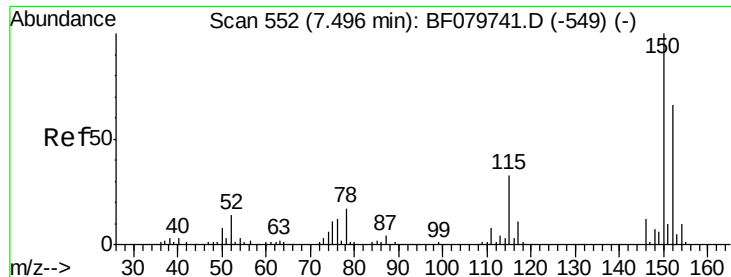
Instrument :
BNA_F
ClientSampleId :
SEC-3.5-SP

Quant Time: Jun 08 16:32:38 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
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#1

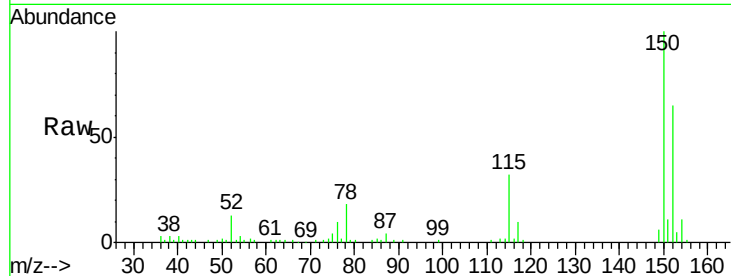
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.50 min Scan# 552
Delta R.T. -0.00 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Instrument :
BNA_F
ClientSampleId :
SEC-3.5-SP

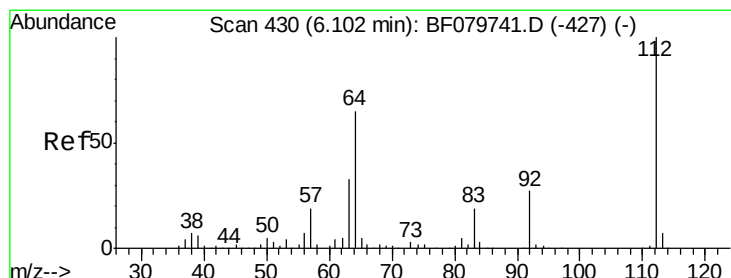
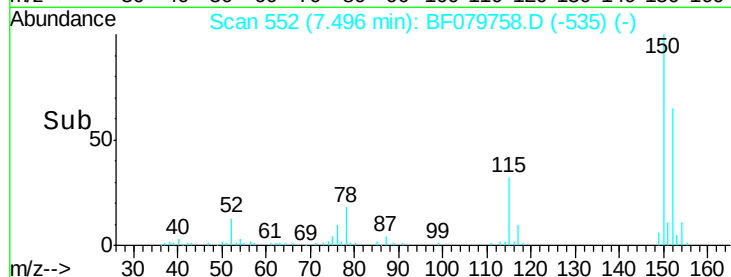
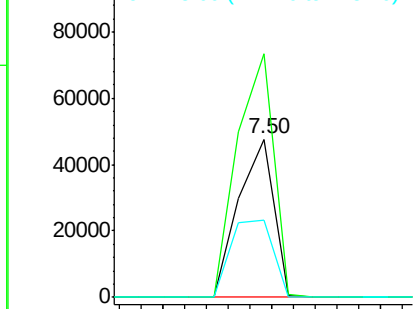
Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	128.1	192.1
115	48.5	49.7	74.5

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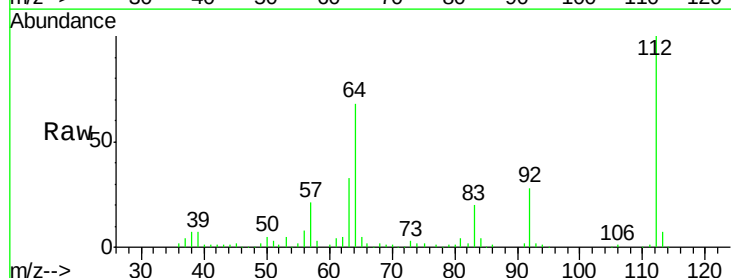
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



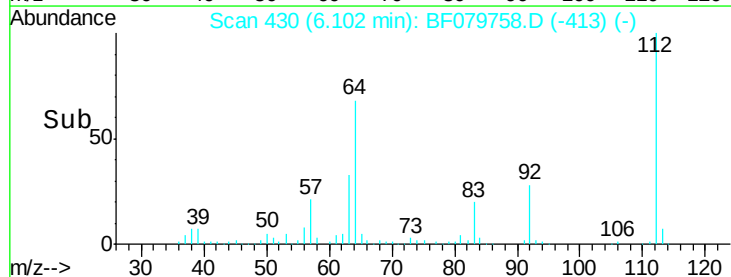
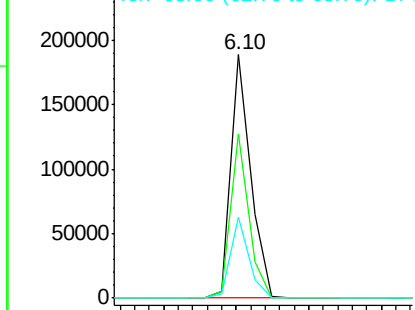
#5

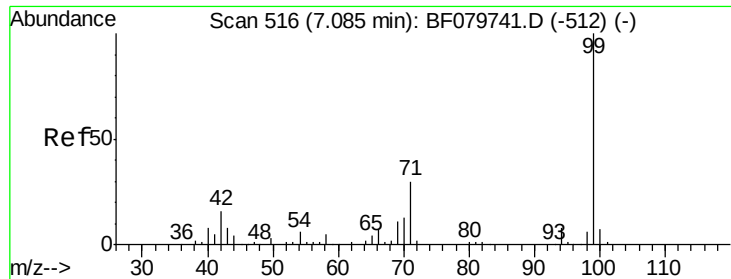
2-Fluorophenol
Concen: 55.70 ng
RT: 6.10 min Scan# 430
Delta R.T. -0.00 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.6	49.6	74.4
63	33.4	24.9	37.3



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: 59.38 ng

RT: 7.08 min Scan# 516

Delta R.T. -0.00 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

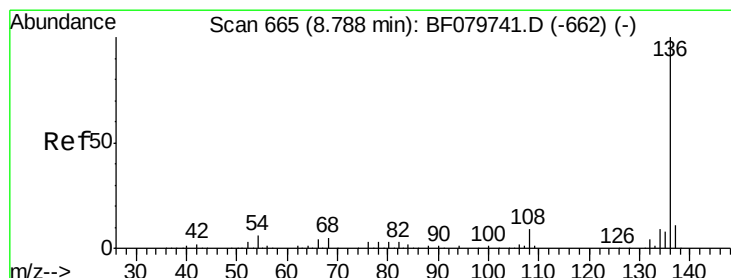
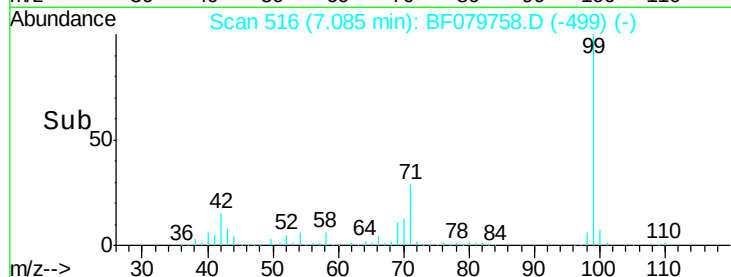
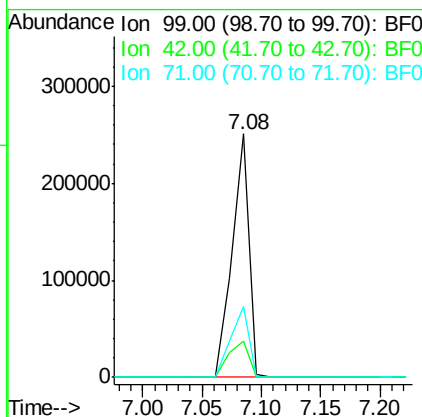
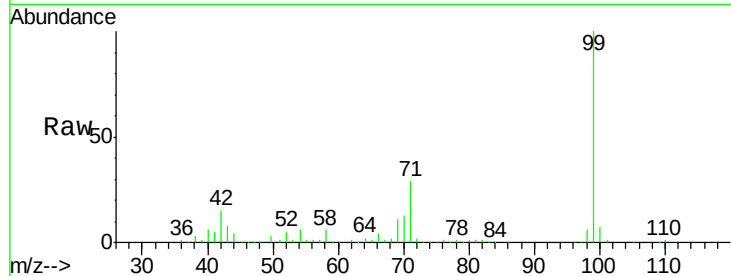
ClientSampleId :

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Tot Ion:	99	Resp:	245590
Ion Ratio	Lower	Upper	
99	100		
42	15.0	18.0	27.0#
71	29.1	28.4	42.6

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#21

Naphthalene-d8

Concen: 20.00 ng

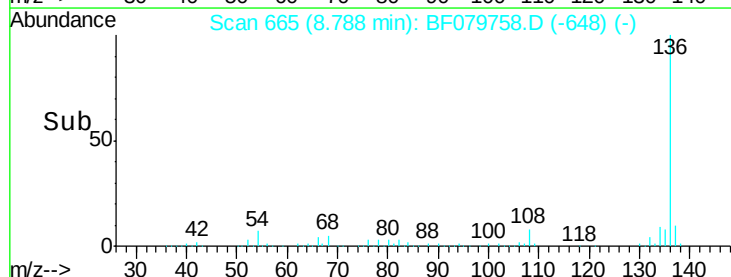
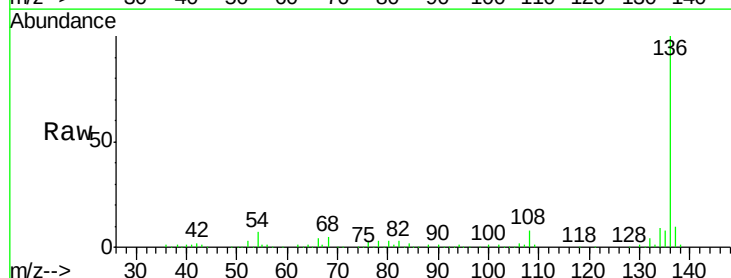
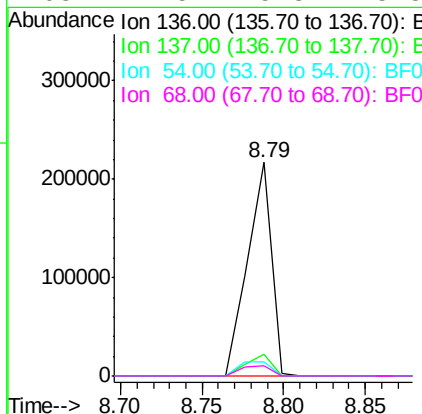
RT: 8.79 min Scan# 665

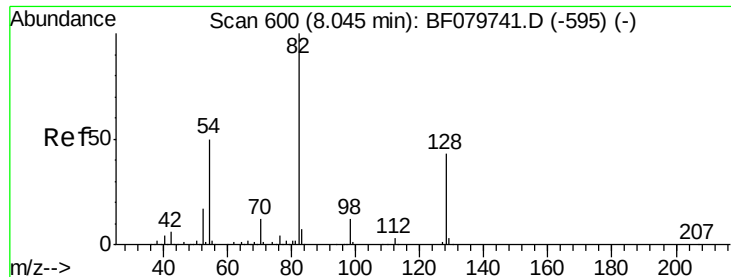
Delta R.T. -0.00 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Tgt Ion:	136	Resp:	220816
Ion Ratio	Lower	Upper	
136	100		
137	10.3	8.8	13.2
54	6.8	8.7	13.1#
68	4.5	5.8	8.8#





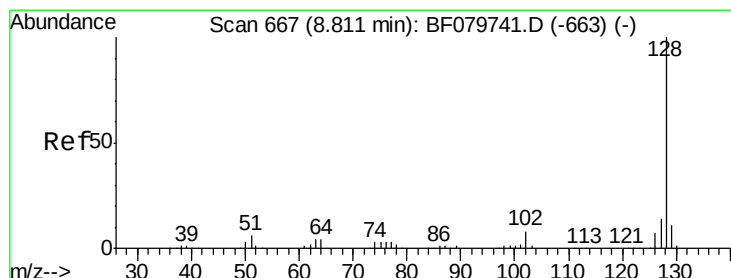
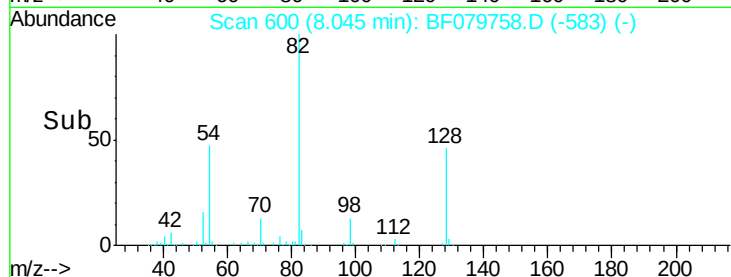
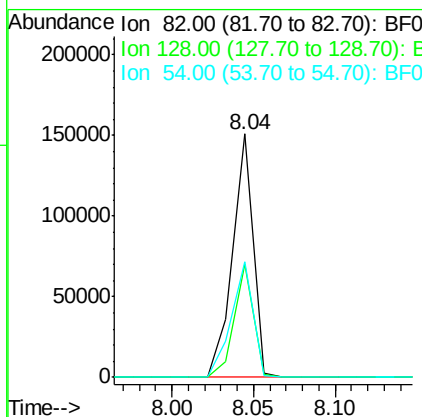
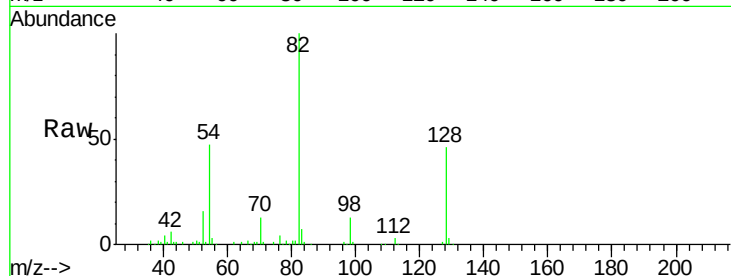
#23
 Nitrobenzene-d5
 Concen: 36.27 ng
 RT: 8.04 min Scan# 600
 Delta R.T. -0.00 min
 Lab File: BF079758.D
 Acq: 6 Jun 2015 6:27

Instrument :
 BNA_F
 ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.4	37.6	56.4	
54	47.3	39.4	59.2	

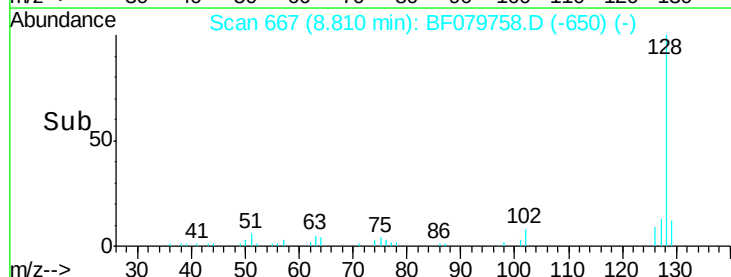
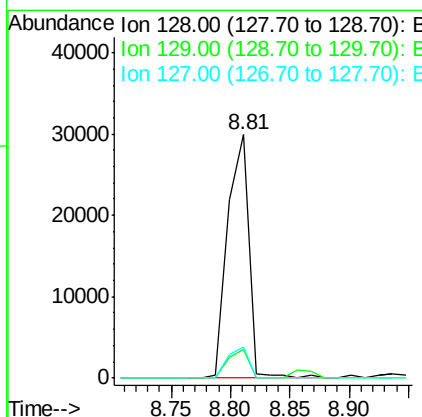
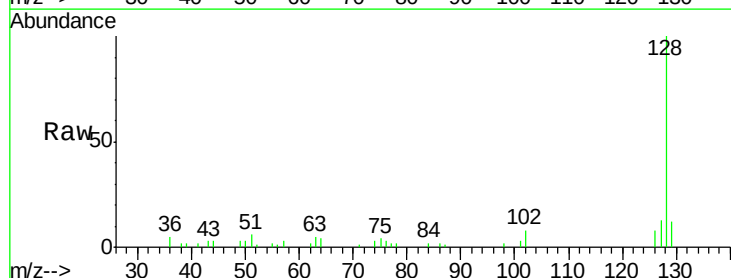
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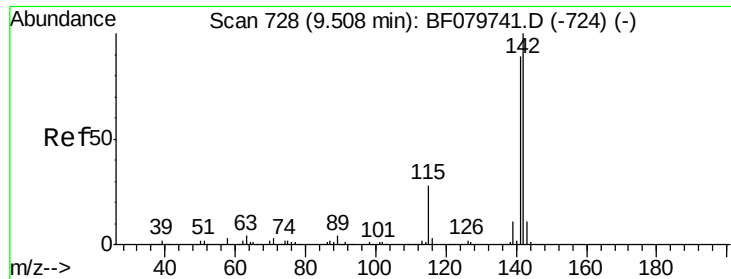
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#31
 Naphthalene
 Concen: 3.19 ng
 RT: 8.81 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: BF079758.D
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Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.6	9.4	14.2	
127	13.0	10.7	16.1	





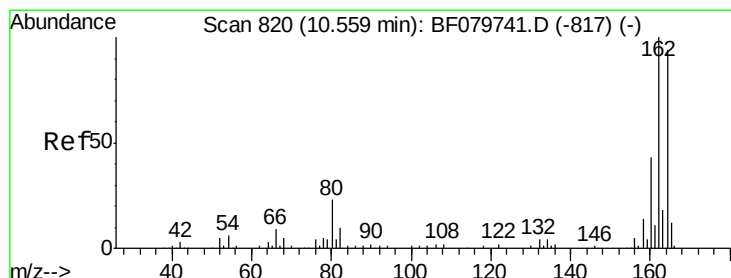
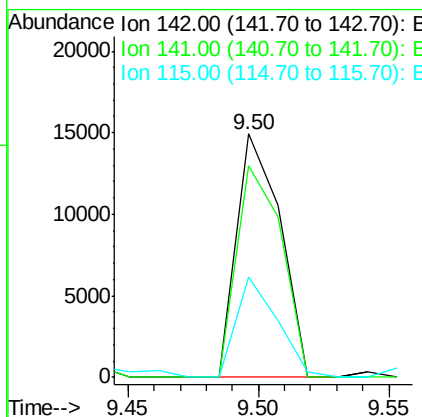
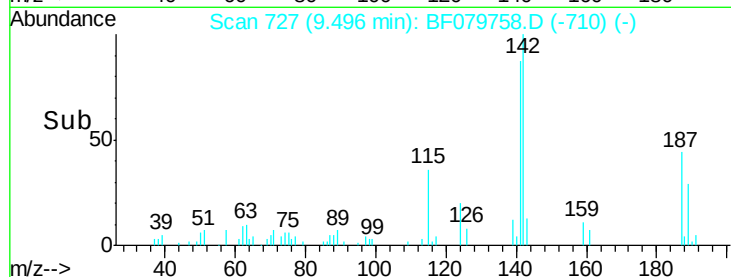
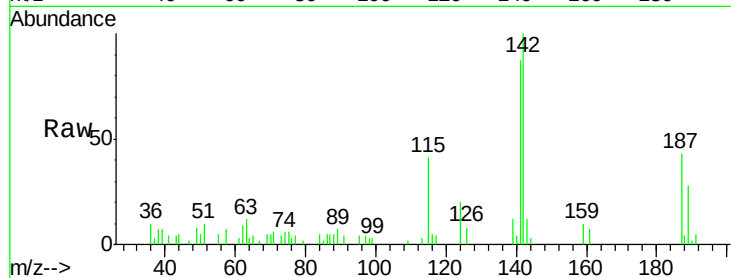
#37
2-Methylnaphthalene
Concen: 2.37 ng
RT: 9.50 min Scan# 727
Delta R.T. -0.00 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
142	100		
141	86.9	72.8	109.2
115	41.0	26.9	40.3#

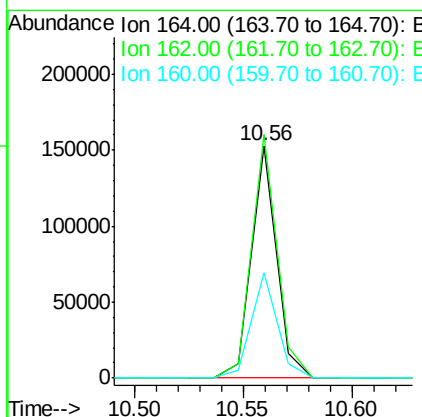
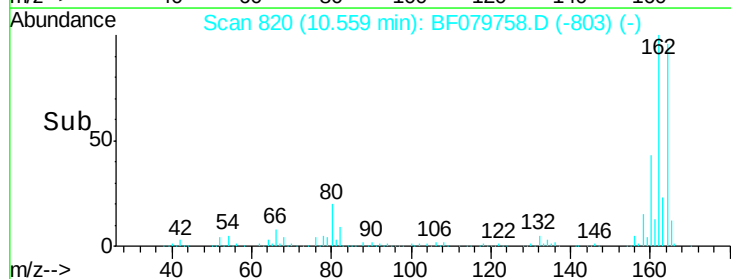
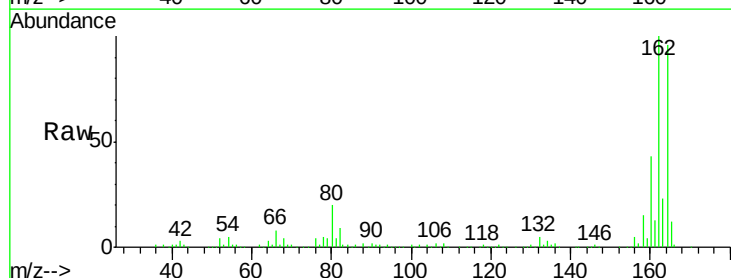
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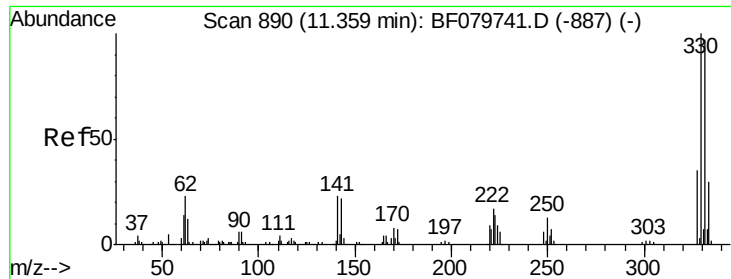
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.56 min Scan# 820
Delta R.T. -0.00 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	82.6	123.8
160	45.3	36.8	55.2





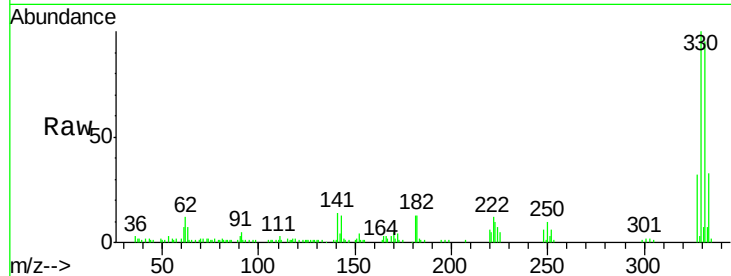
#41
 2,4,6-Tribromophenol
 Concen: 53.31 ng
 RT: 11.36 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: BF079758.D
 Acq: 6 Jun 2015 6:27

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.5-SP

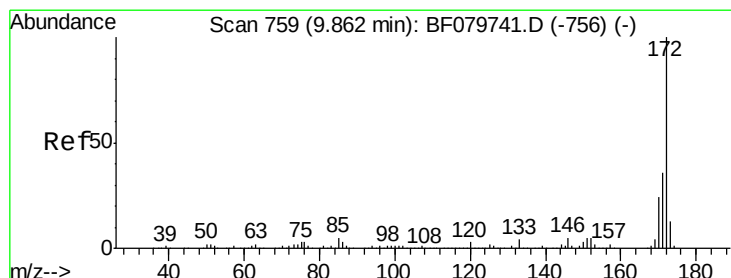
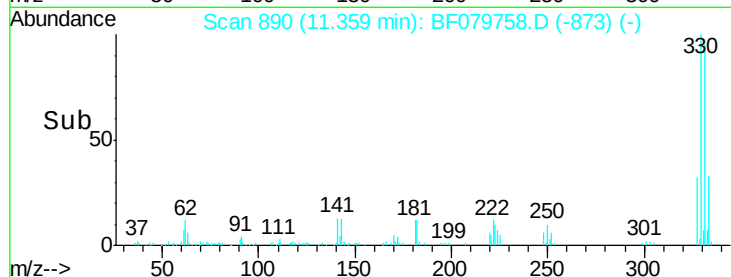
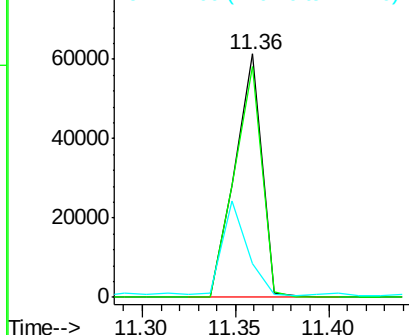
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.4	116.0
141	38.2	30.2	45.2

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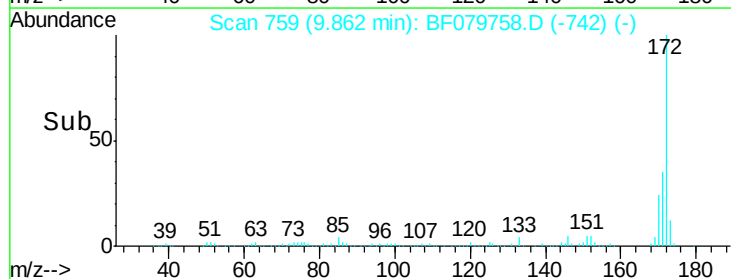
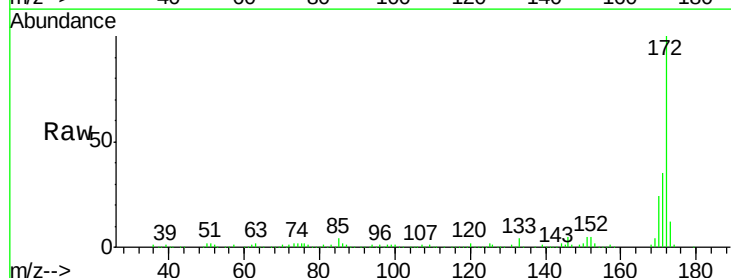
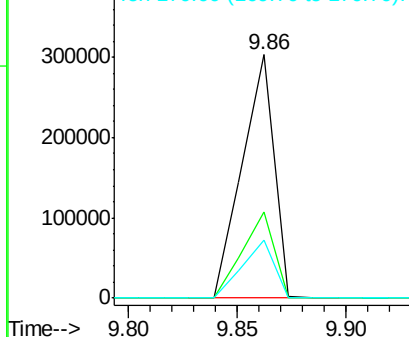
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

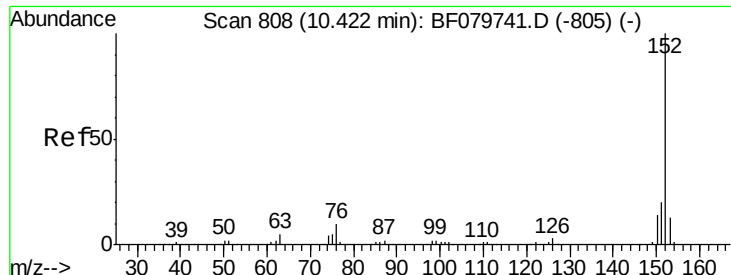


#44
 2-Fluorobiphenyl
 Concen: 34.10 ng
 RT: 9.86 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: BF079758.D
 Acq: 6 Jun 2015 6:27

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.4	44.0
170	23.7	19.7	29.5

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





#48

Acenaphthylene

Concen: 16.95 ng

RT: 10.42 min Scan# 808

Delta R.T. -0.00 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

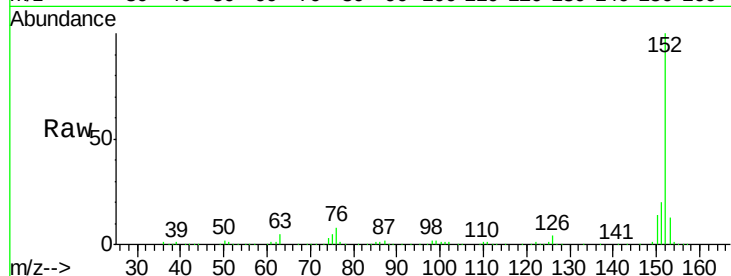
ClientSampleId :

SEC-3.5-SP

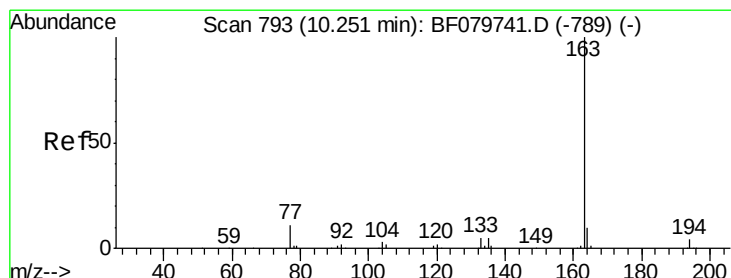
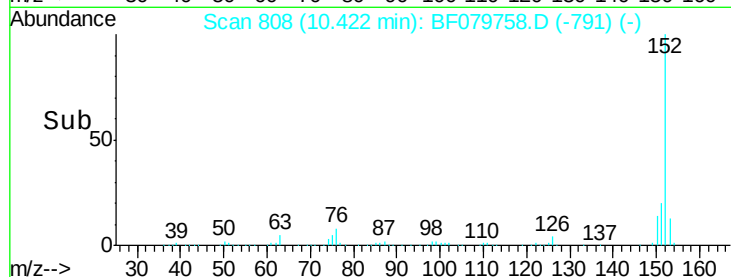
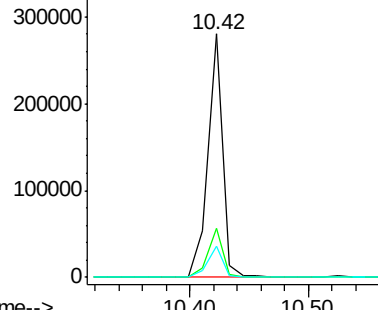
Tot Ion:	152	Resp:	243916
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.2	24.4
153	12.7	10.4	15.6

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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



#49

Dimethylphthalate

Concen: 3.58 ng

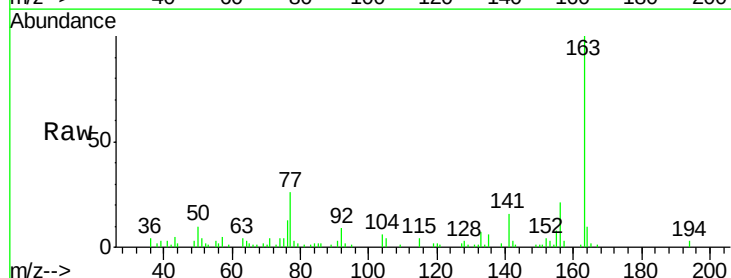
RT: 10.24 min Scan# 792

Delta R.T. -0.00 min

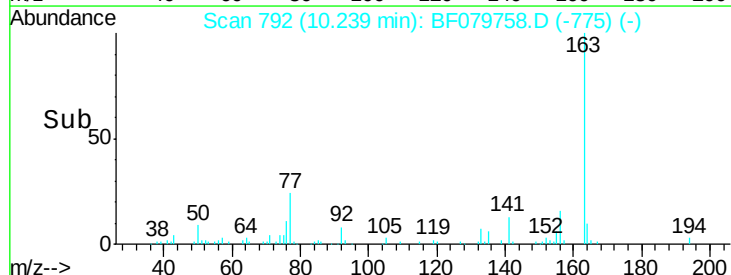
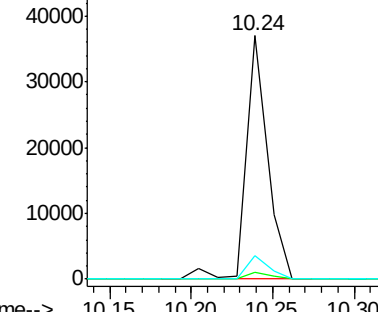
Lab File: BF079758.D

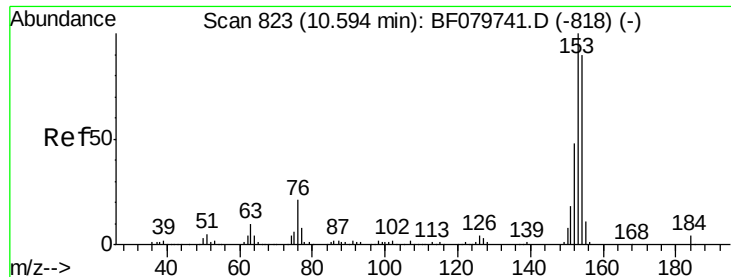
Acq: 6 Jun 2015 6:27

Tgt Ion:	163	Resp:	33773
Ion Ratio	Lower	Upper	
163	100		
194	2.9	2.6	3.8
164	9.8	8.5	12.7



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 3.88 ng

RT: 10.59 min Scan# 823

Delta R.T. -0.00 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

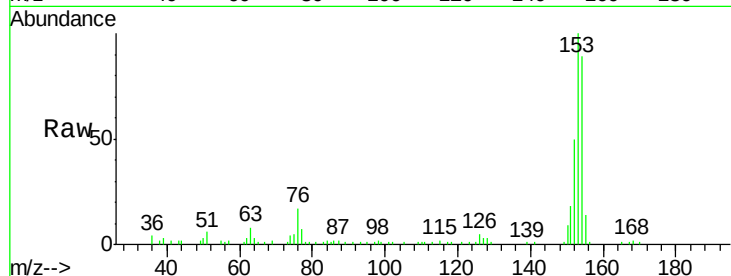
ClientSampleId :

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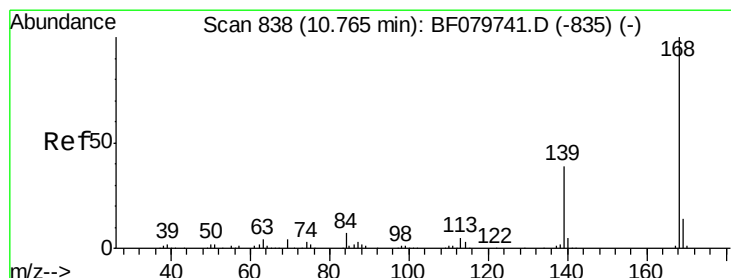
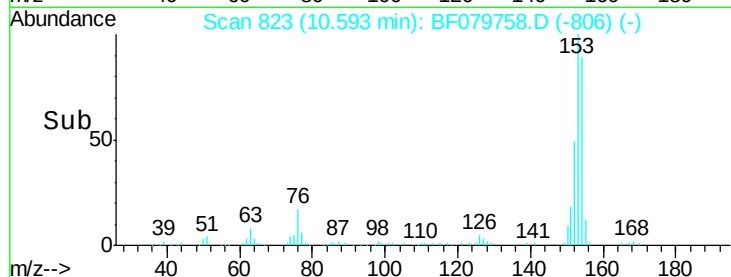
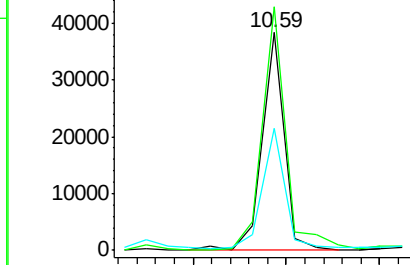
Tot Ion:	154	Resp:	31585
Ion Ratio	Lower	Upper	
154	100		
153	111.9	90.1	135.1
152	56.0	43.4	65.0

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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: 2.40 ng

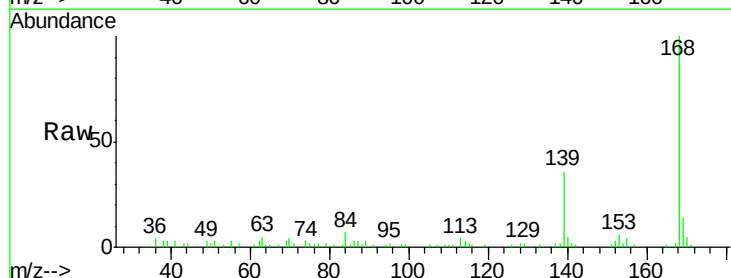
RT: 10.76 min Scan# 838

Delta R.T. -0.00 min

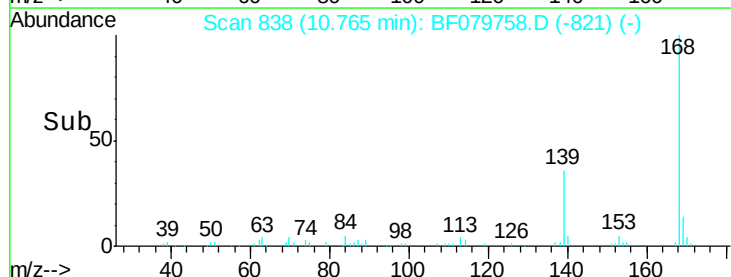
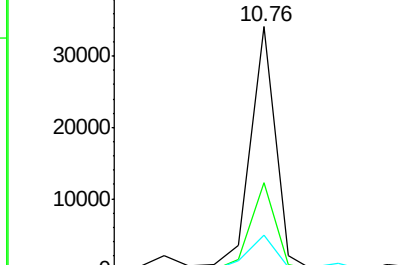
Lab File: BF079758.D

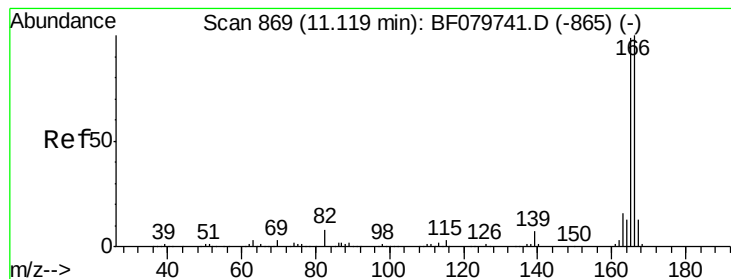
Acq: 6 Jun 2015 6:27

Tgt Ion:	168	Resp:	27703
Ion Ratio	Lower	Upper	
168	100		
139	35.8	27.7	41.5
169	14.1	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: 3.94 ng

RT: 11.11 min Scan# 868

Delta R.T. -0.00 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

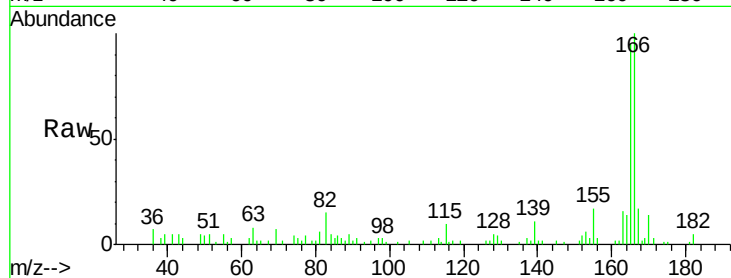
ClientSampleId :

SEC-3.5-SP

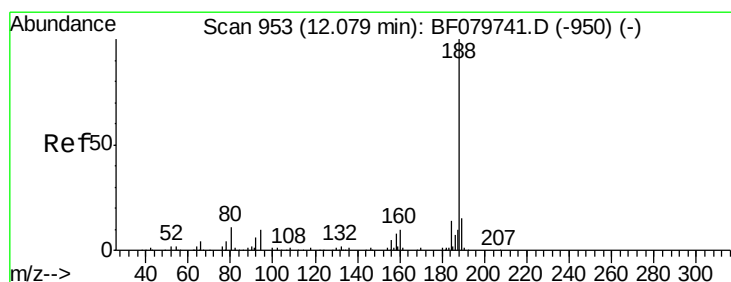
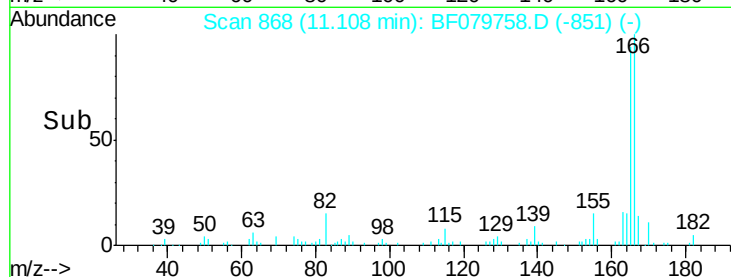
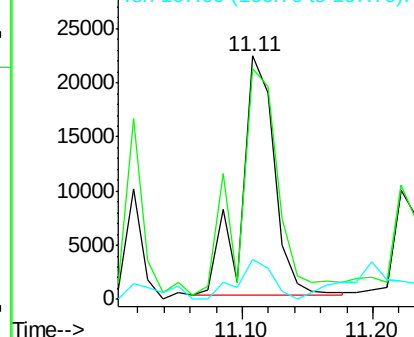
Tot Ion:	166	Resp:	39392
Ion Ratio	Lower	Upper	
166	100		
165	95.0	79.4	119.0
167	16.7	11.0	16.4#

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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.07 min Scan# 952

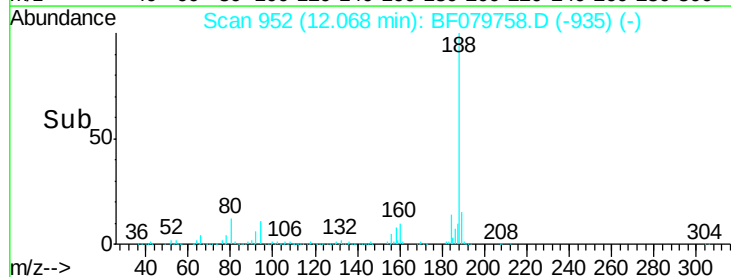
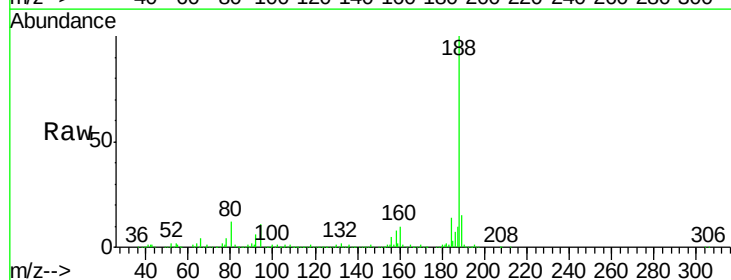
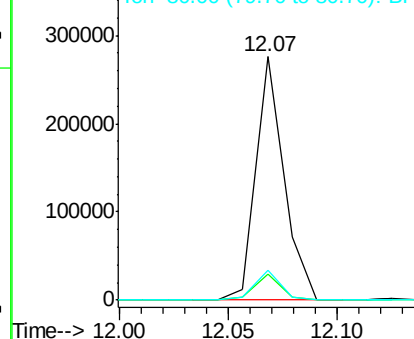
Delta R.T. -0.00 min

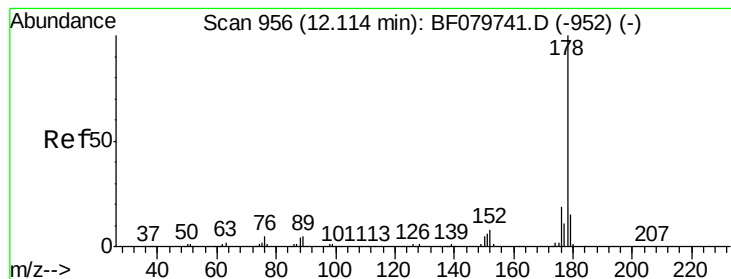
Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Tgt Ion:	188	Resp:	246500
Ion Ratio	Lower	Upper	
188	100		
94	10.7	5.0	7.4#
80	12.1	5.3	7.9#

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: 33.11 ng

RT: 12.09 min Scan# 954

Delta R.T. -0.00 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

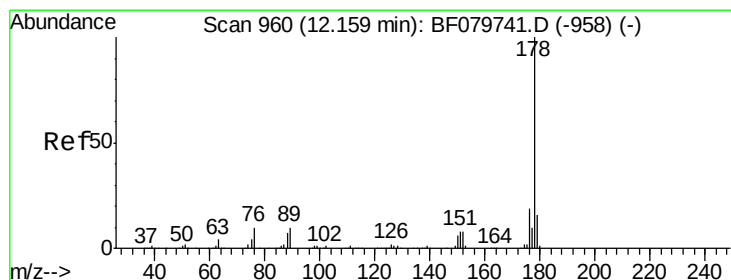
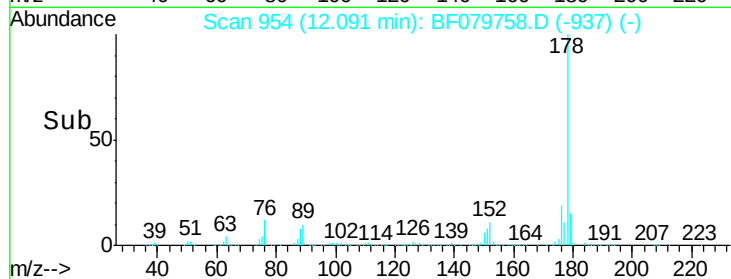
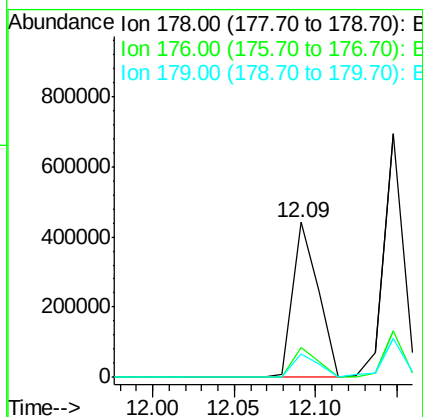
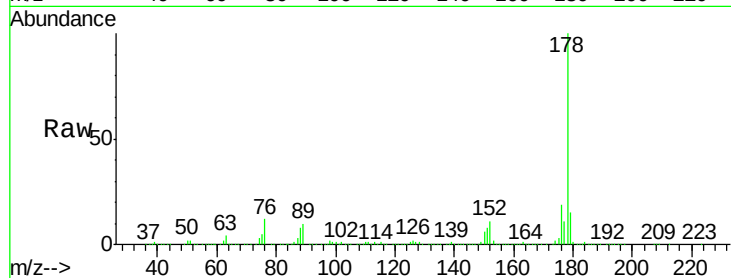
ClientSampleId :

SEC-3.5-SP

Tot Ion:	178	Resp:	477791
Ion Ratio	Lower	Upper	
178	100		
176	19.4	16.2	24.4
179	15.4	12.6	19.0

Manual Integrations
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#71

Anthracene

Concen: 41.22 ng

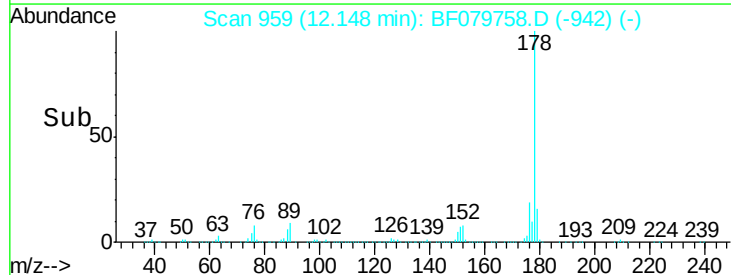
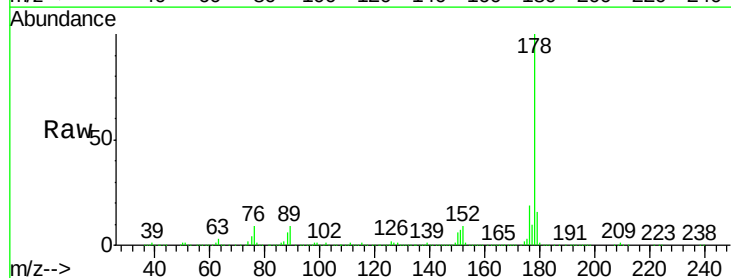
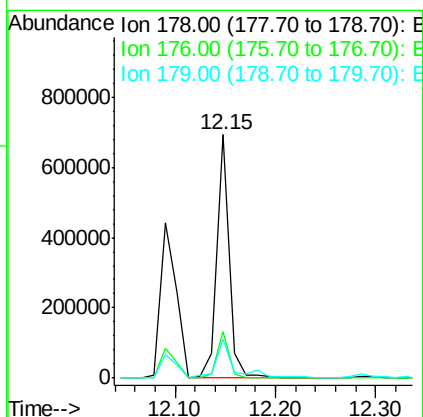
RT: 12.15 min Scan# 959

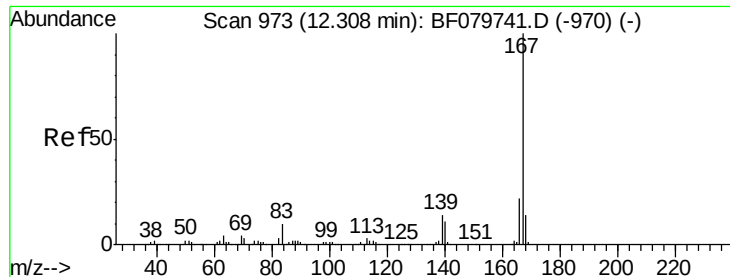
Delta R.T. -0.00 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Tgt Ion:	178	Resp:	586571
Ion Ratio	Lower	Upper	
178	100		
176	19.0	14.8	22.2
179	15.9	12.2	18.2





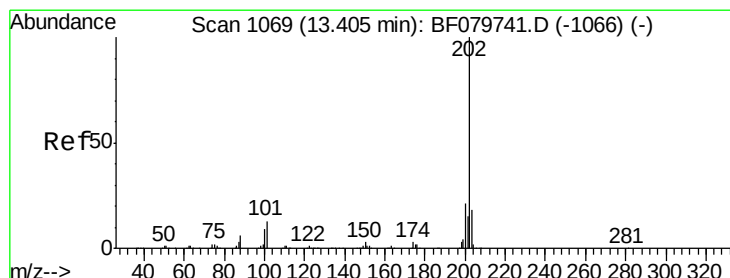
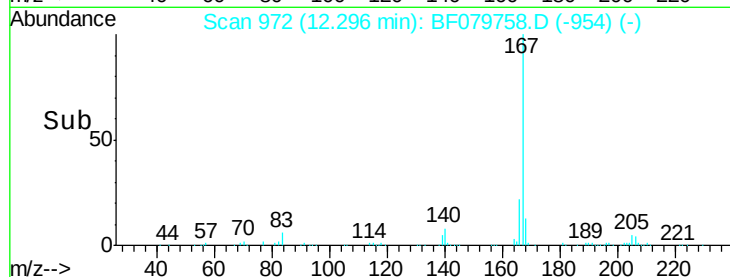
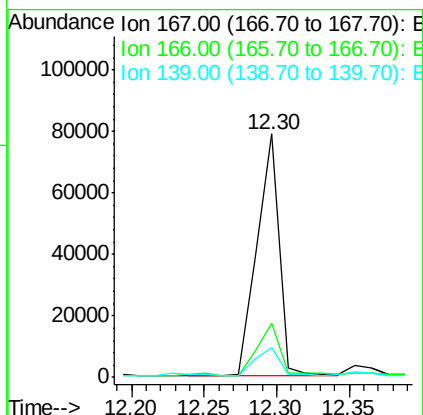
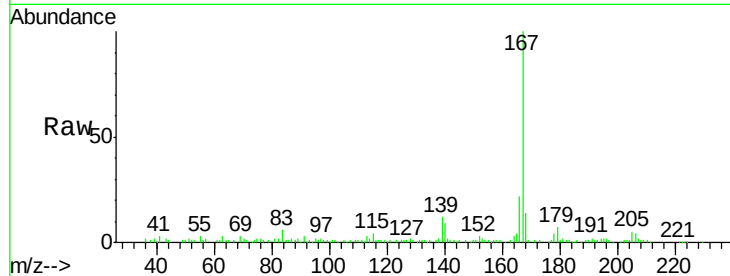
#72
 Carbazole
 Concen: 6.20 ng
 RT: 12.30 min Scan# 972
 Delta R.T. 0.01 min
 Lab File: BF079758.D
 Acq: 6 Jun 2015 6:27

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.5-SP

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.7	26.5
139	12.0	9.3	13.9

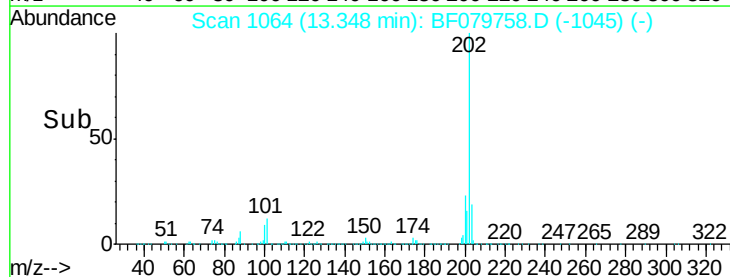
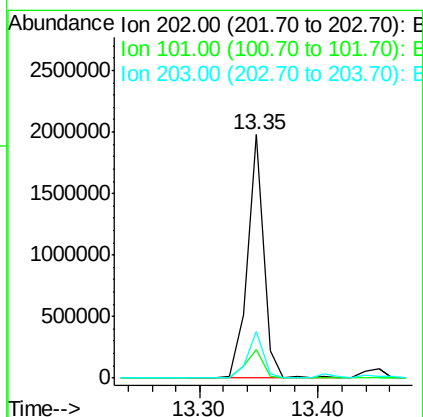
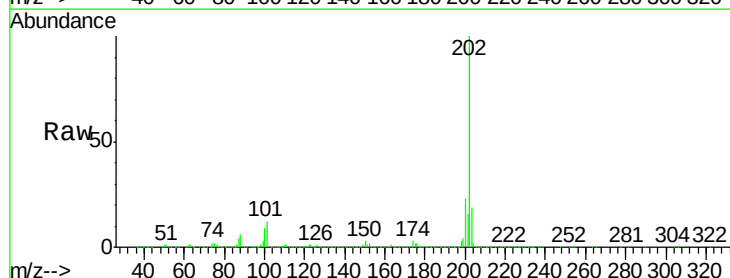
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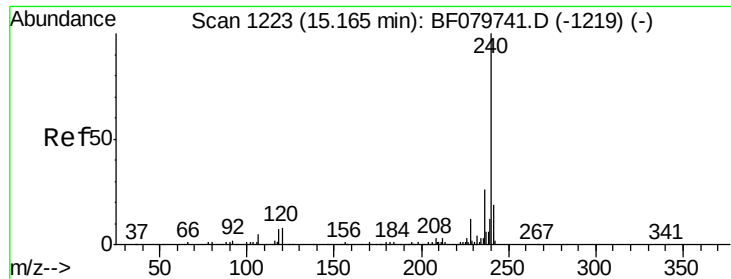
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#74
 Fluoranthene
 Concen: 119.36 ng
 RT: 13.35 min Scan# 1064
 Delta R.T. 0.02 min
 Lab File: BF079758.D
 Acq: 6 Jun 2015 6:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	31.3
203	19.1	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: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

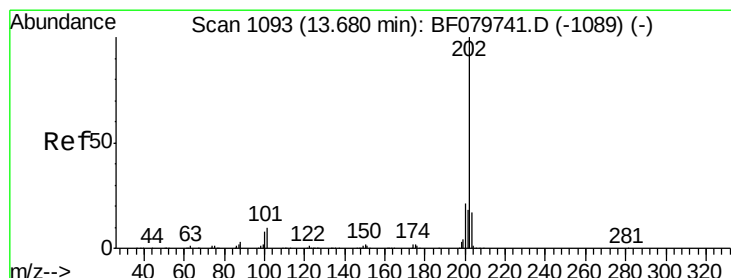
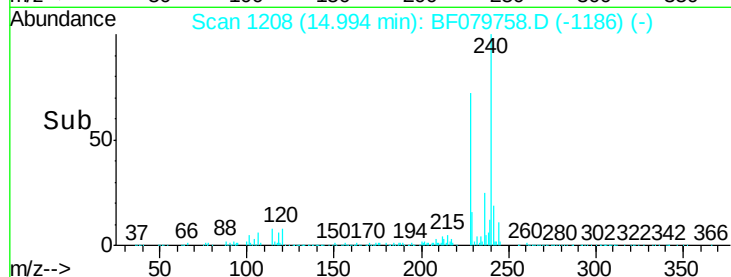
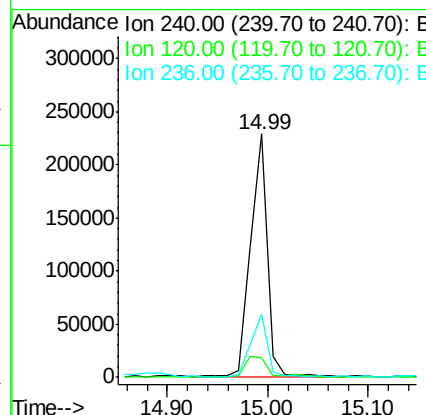
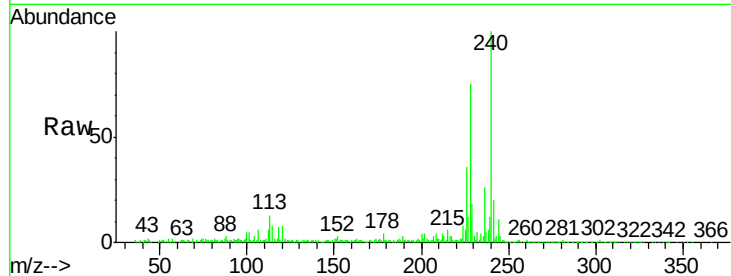
ClientSampleId :

SEC-3.5-SP

Tot Ion:	240	Resp:	262404
Ion Ratio	Lower	Upper	
240	100		
120	8.0	6.2	9.2
236	25.7	21.0	31.4

Manual Integrations
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#77

Pyrene

Concen: 115.24 ng

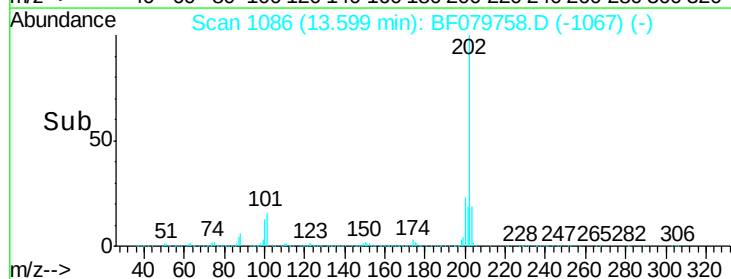
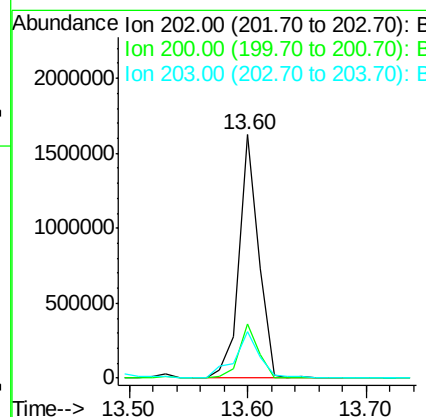
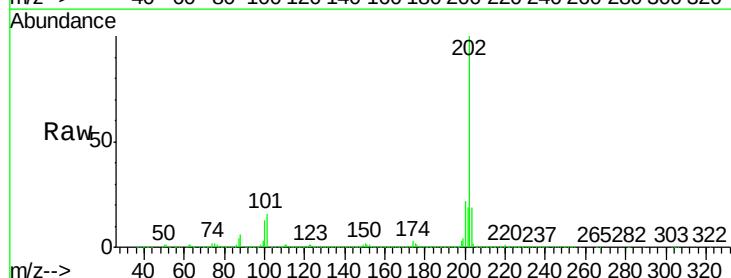
RT: 13.60 min Scan# 1086

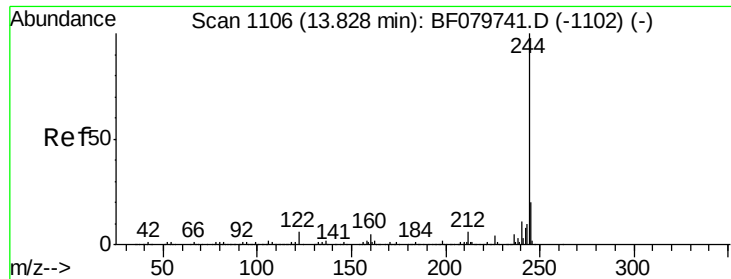
Delta R.T. 0.02 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Tgt Ion:	202	Resp:	1853876
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.5	26.3
203	18.9	14.8	22.2





#78

Terphenyl-d14

Concen: 34.95 ng

RT: 13.74 min Scan# 1098

Delta R.T. 0.02 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

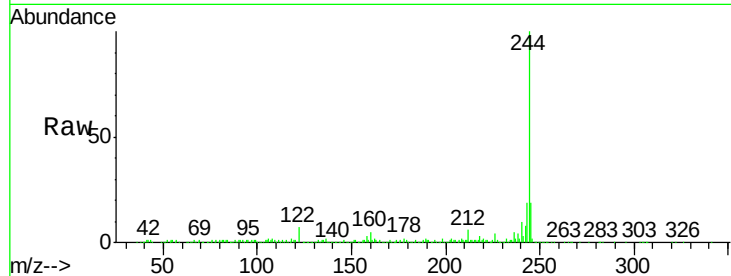
ClientSampleId :

SEC-3.5-SP

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	6.1	9.1
122	7.3	9.3	13.9#

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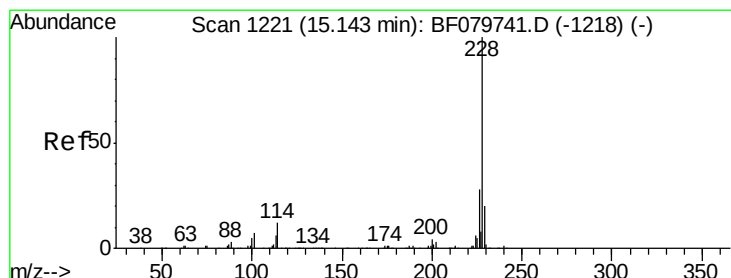
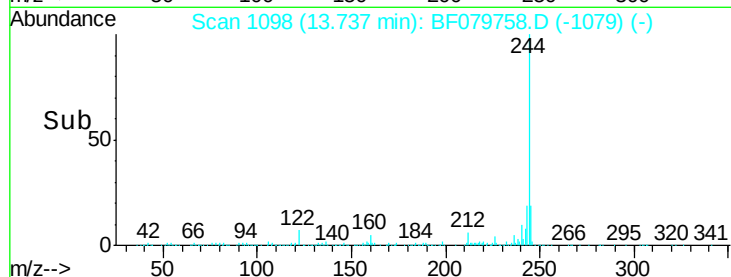
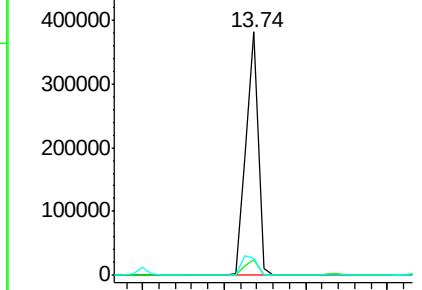
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 89.87 ng m

RT: 14.98 min Scan# 1207

Delta R.T. 0.07 min

Lab File: BF079758.D

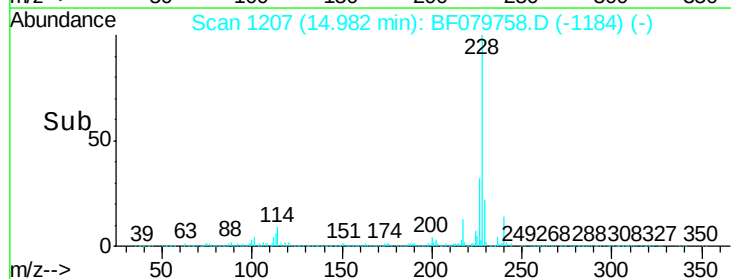
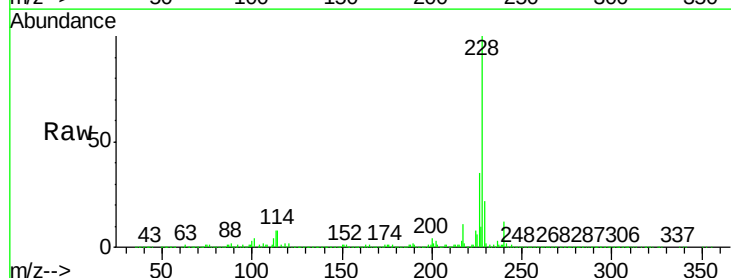
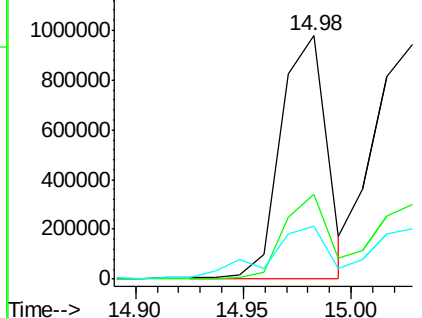
Acq: 6 Jun 2015 6:27

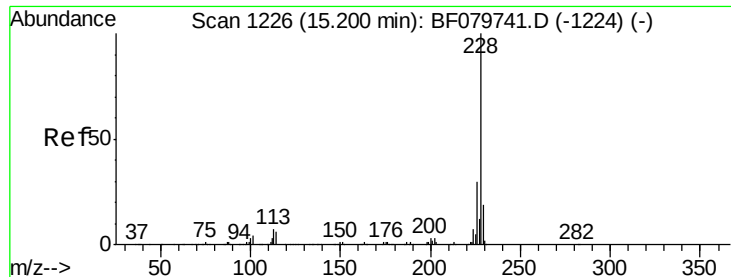
Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.7	22.2	33.4#
229	21.8	16.6	25.0

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: 100.45 ng

RT: 15.03 min Scan# 1211

Delta R.T. 0.07 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

ClientSampleId :

SEC-3.5-SP

Tot Ion:228 Resp: 1491588

Ion Ratio Lower Upper

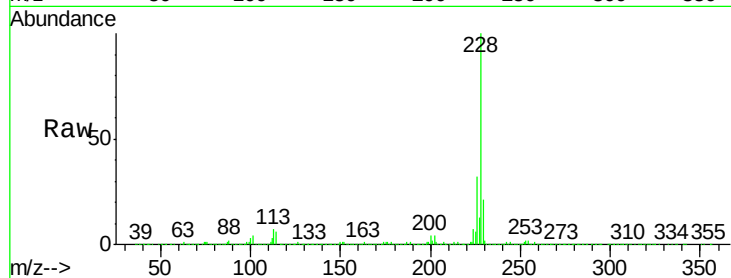
228 100

226 31.7 25.2 37.8

229 21.4 16.2 24.4

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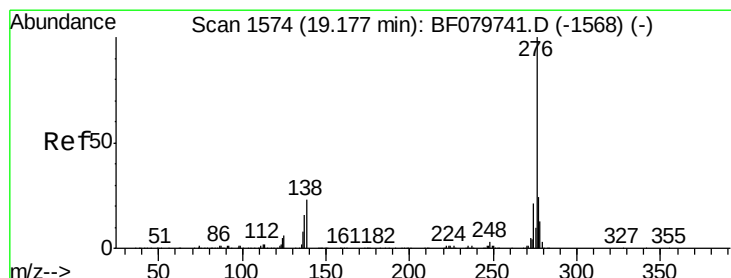
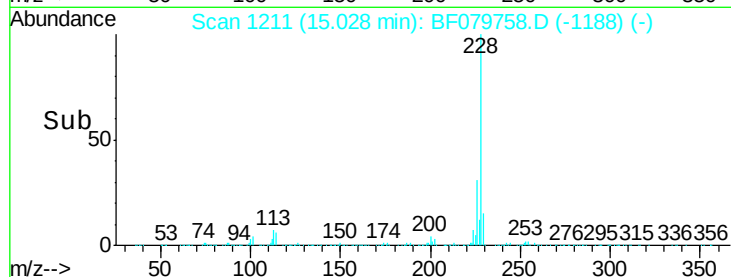
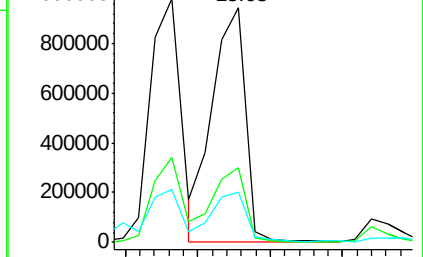
apatel
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Abundance Ion 228.00 (227.70 to 228.70): E

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: 30.48 ng

RT: 18.91 min Scan# 1551

Delta R.T. 0.10 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

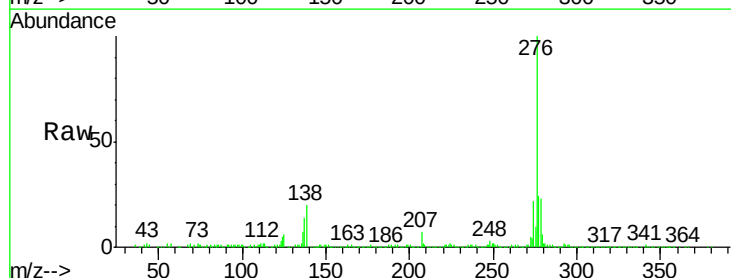
Tgt Ion:276 Resp: 523892

Ion Ratio Lower Upper

276 100

138 21.7 20.8 31.2

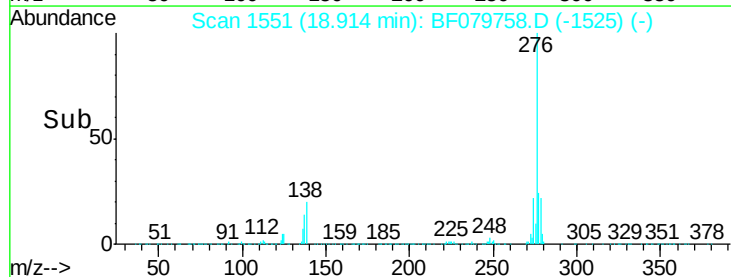
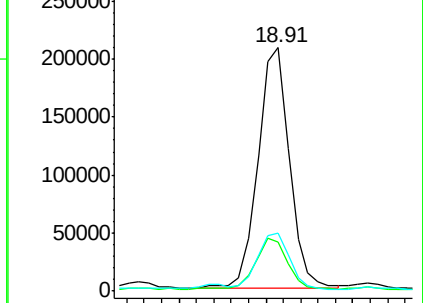
277 23.9 20.0 30.0

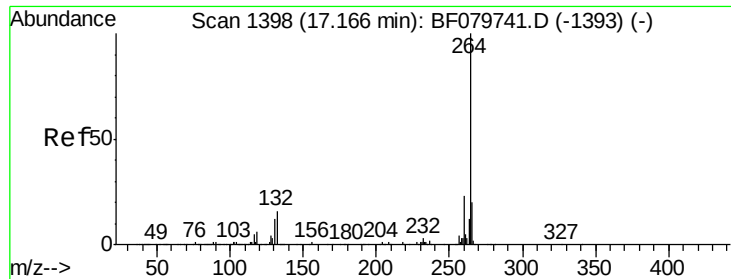


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





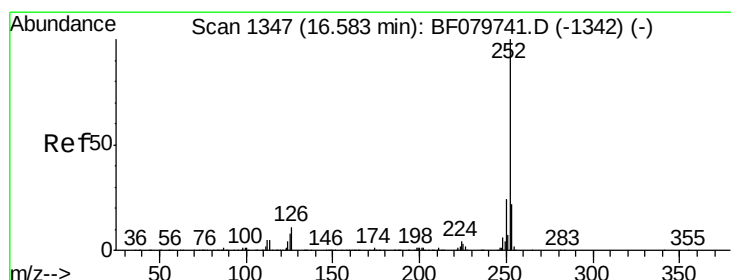
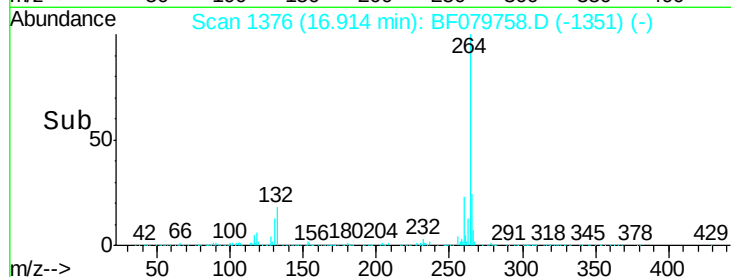
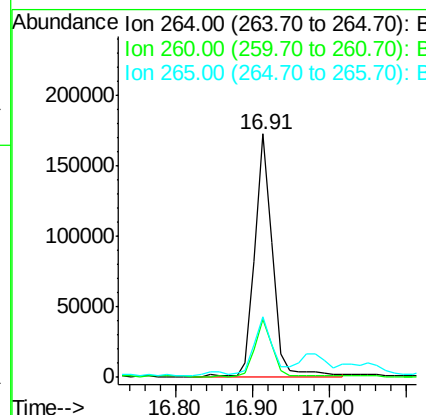
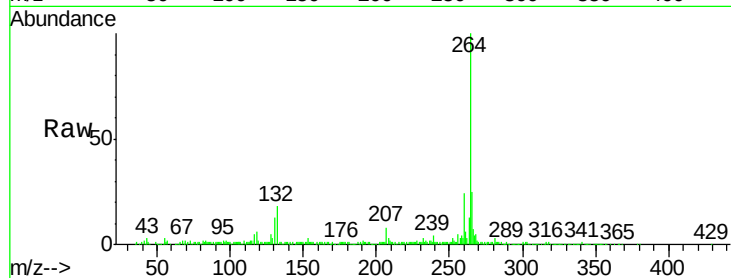
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.91 min Scan# 1376
Delta R.T. 0.09 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Instrument :
BNA_F
ClientSampleId :
SEC-3.5-SP

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	27.8
265	24.9	18.2	27.4

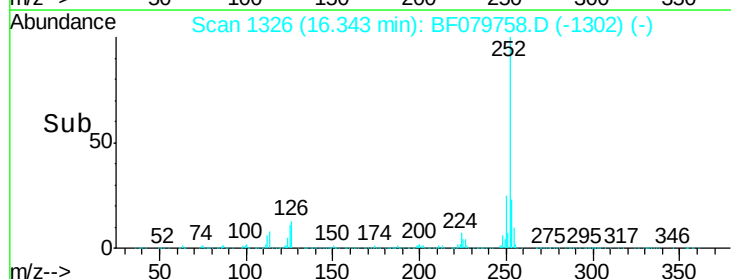
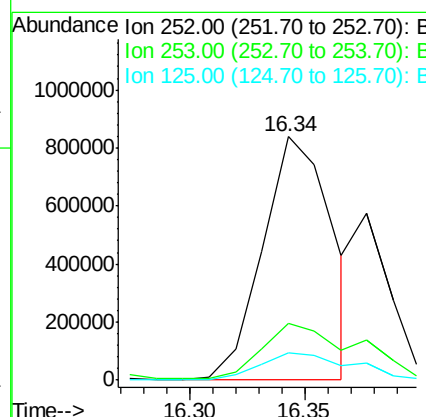
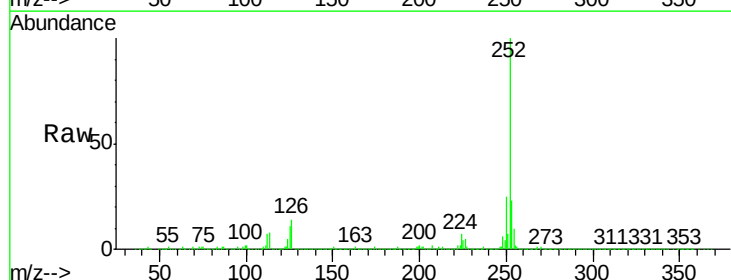
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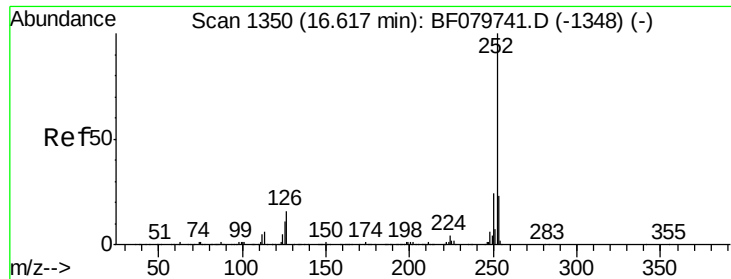
apatel
6/9/2015 8:10:56 AM



#87
Benzo(b)fluoranthene
Concen: 103.94 ng m
RT: 16.34 min Scan# 1326
Delta R.T. 0.08 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.2
125	11.3	6.5	9.7#





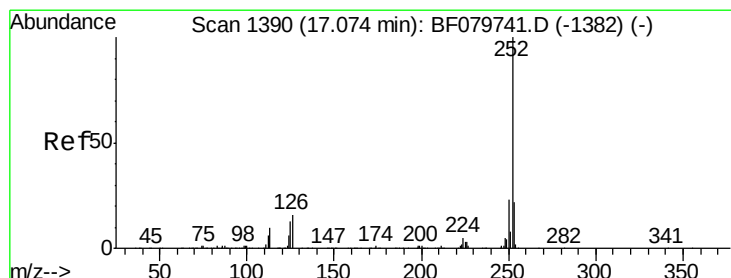
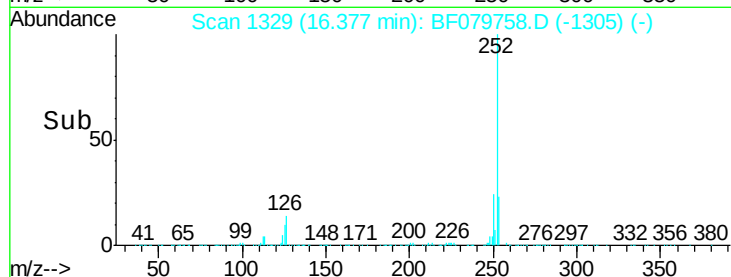
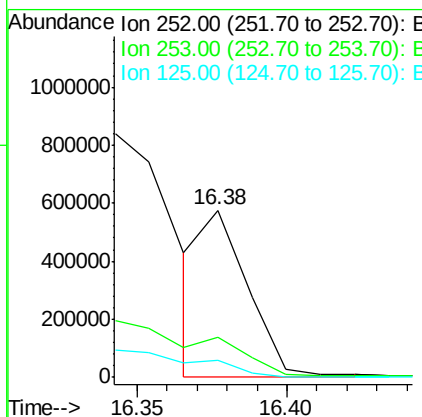
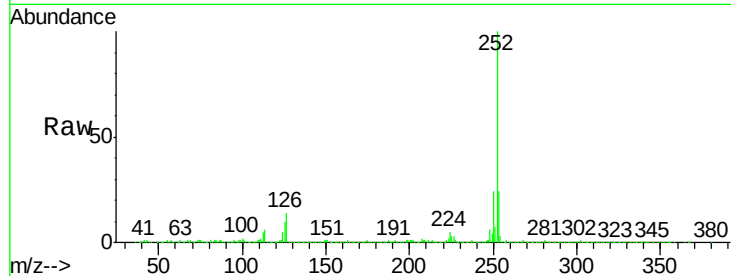
#88
Benzo(k)fluoranthene
Concen: 37.85 ng m
RT: 16.38 min Scan# 1329
Delta R.T. 0.08 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Instrument :
BNA_F
ClientSampleId :
SEC-3.5-SP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.8
125	10.1	8.4	12.6

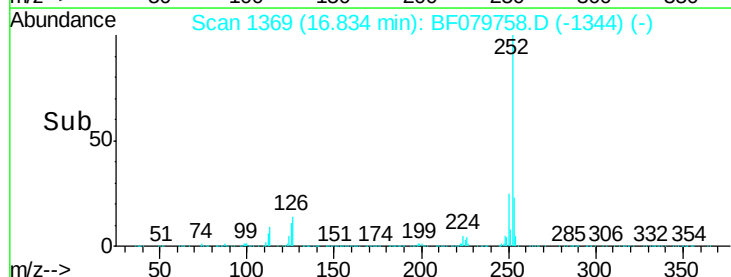
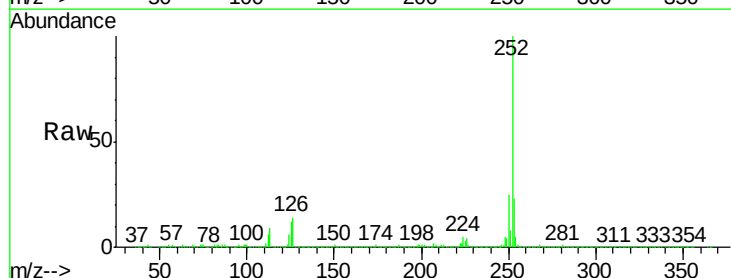
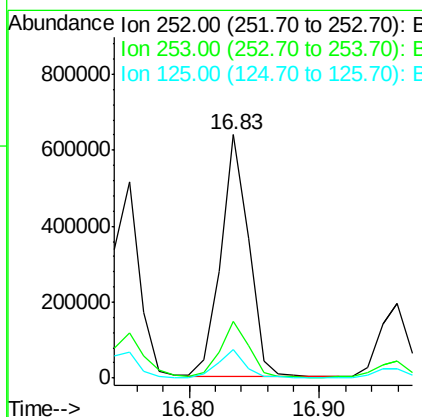
Manual Integrations
APPROVED

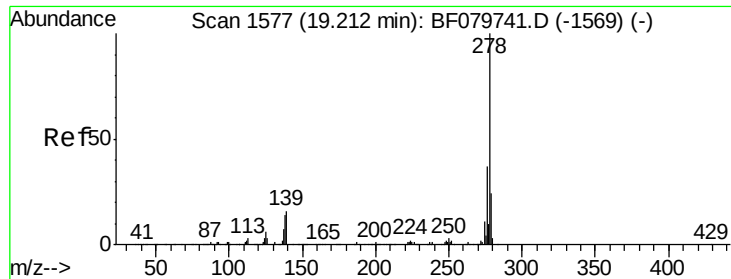
apatel
6/9/2015 8:10:56 AM



#89
Benzo(a)pyrene
Concen: 60.31 ng
RT: 16.83 min Scan# 1369
Delta R.T. 0.09 min
Lab File: BF079758.D
Acq: 6 Jun 2015 6:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.6	26.4
125	11.5	7.4	11.0





#90

Dibenzo(a,h)anthracene

Concen: 9.41 ng

RT: 18.93 min Scan# 1552

Delta R.T. 0.09 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Instrument :

BNA_F

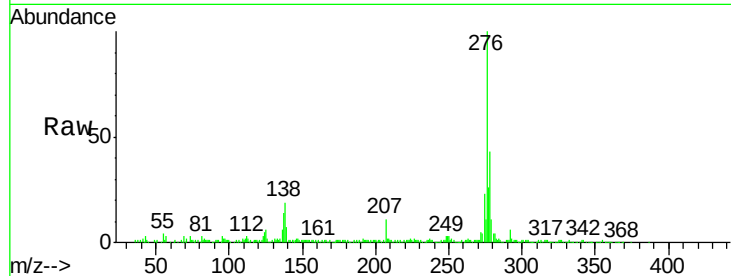
ClientSampled :

SEC-3.5-SP

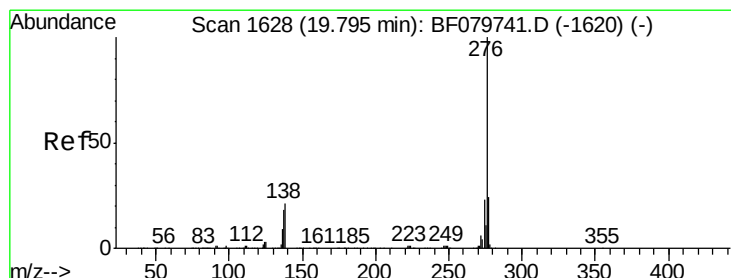
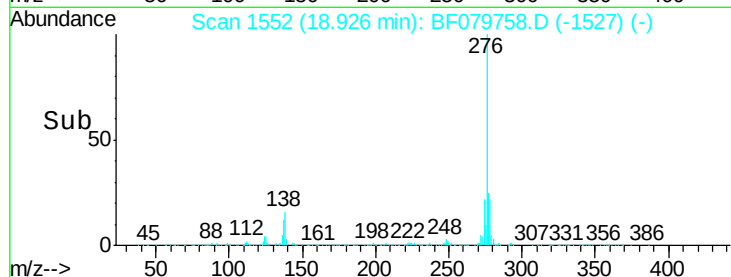
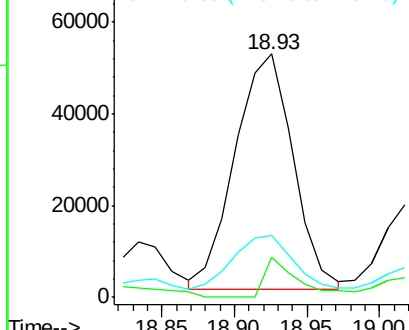
Tot Ion:	278	Resp:	142171
Ion Ratio	Lower	Upper	
278	100		
139	16.4	12.7	19.1
279	25.6	19.4	29.2

Manual Integrations
APPROVED

apatel
6/9/2015 8:10:56 AM



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



#91

Benzo(g,h,i)perylene

Concen: 28.71 ng

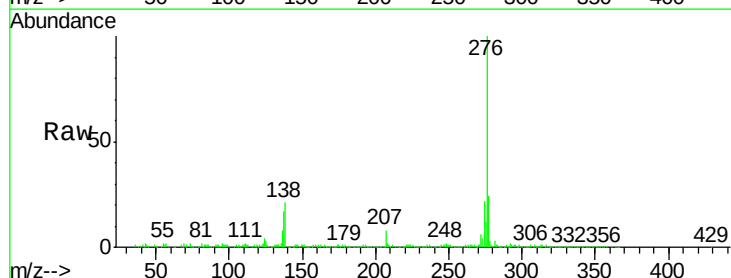
RT: 19.52 min Scan# 1604

Delta R.T. 0.10 min

Lab File: BF079758.D

Acq: 6 Jun 2015 6:27

Tgt Ion:	276	Resp:	448571
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.8	28.2
138	21.2	18.2	27.2



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

