

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041015\
 Data File : BF078439.D
 Acq On : 11 Apr 2015 12:44
 Operator : TP/IZ
 Sample : G1793-18
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-10D

Manual Integrations
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Quant Time: Apr 13 04:16:15 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 13 02:33:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	32978	20.00	ng	0.01
21) Naphthalene-d8	8.44	136	141649	20.00	ng	0.00
38) Acenaphthene-d10	10.59	164	75725	20.00	ng	0.00
63) Phenanthrene-d10	12.42	188	154214	20.00	ng	0.00
75) Chrysene-d12	15.69	240	157766	20.00	ng	0.01
86) Perylene-d12	17.41	264	165554	20.00	ng	0.10

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.12	112	200476	100.23	ng	0.01
7) Phenol-d6	6.46	99	273960	109.29	ng	0.01
23) Nitrobenzene-d5	7.56	82	154950	66.30	ng	0.00
41) 2,4,6-Tribromophenol	11.57	330	71020	113.08	ng	0.01
44) 2-Fluorobiphenyl	9.79	172	298220	56.29	ng	0.01
78) Terphenyl-d14	14.42	244	370706	53.10	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.48	94	8803	2.93	ng	# 61
31) Naphthalene	8.46	128	117684	15.96	ng	99
37) 2-Methylnaphthalene	9.32	142	19676	3.93	ng	98
48) Acenaphthylene	10.42	152	84171	10.70	ng	# 97
49) Dimethylphthalate	10.29	163	15948	2.80	ng	# 95
51) Acenaphthene	10.64	154	344689	77.79	ng	100
54) Dibenzofuran	10.85	168	74560	11.02	ng	95
55) 4-Nitrophenol	10.80	139	1148	3.90	ng	# 34
57) Fluorene	11.28	166	131433	23.96	ng	96
70) Phenanthrene	12.45	178	1342235	150.47	ng	97
71) Anthracene	12.52	178	619642	70.49	ng	99
72) Carbazole	12.73	167	28206	3.42	ng	96
74) Fluoranthene	13.93	202	1409724	149.85	ng	96
77) Pyrene	14.20	202	1529994	154.48	ng	94
80) Benzo(a)anthracene	15.68	228	711978m	75.85	ng	
82) Chrysene	15.72	228	513319	58.20	ng	97
83) Bis(2-ethylhexyl)phthalate	15.77	149	16657	2.81	ng	96
85) Indeno(1,2,3-cd)pyrene	18.67	276	312633m	31.24	ng	
87) Benzo(b)fluoranthene	16.98	252	639630m	62.51	ng	
88) Benzo(k)fluoranthene	17.00	252	219872m	24.18	ng	
89) Benzo(a)pyrene	17.36	252	615184	68.89	ng	97
90) Dibenz(a,h)anthracene	18.68	278	65681	7.35	ng	92
91) Benzo(g,h,i)perylene	19.03	276	344012m	38.38	ng	

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

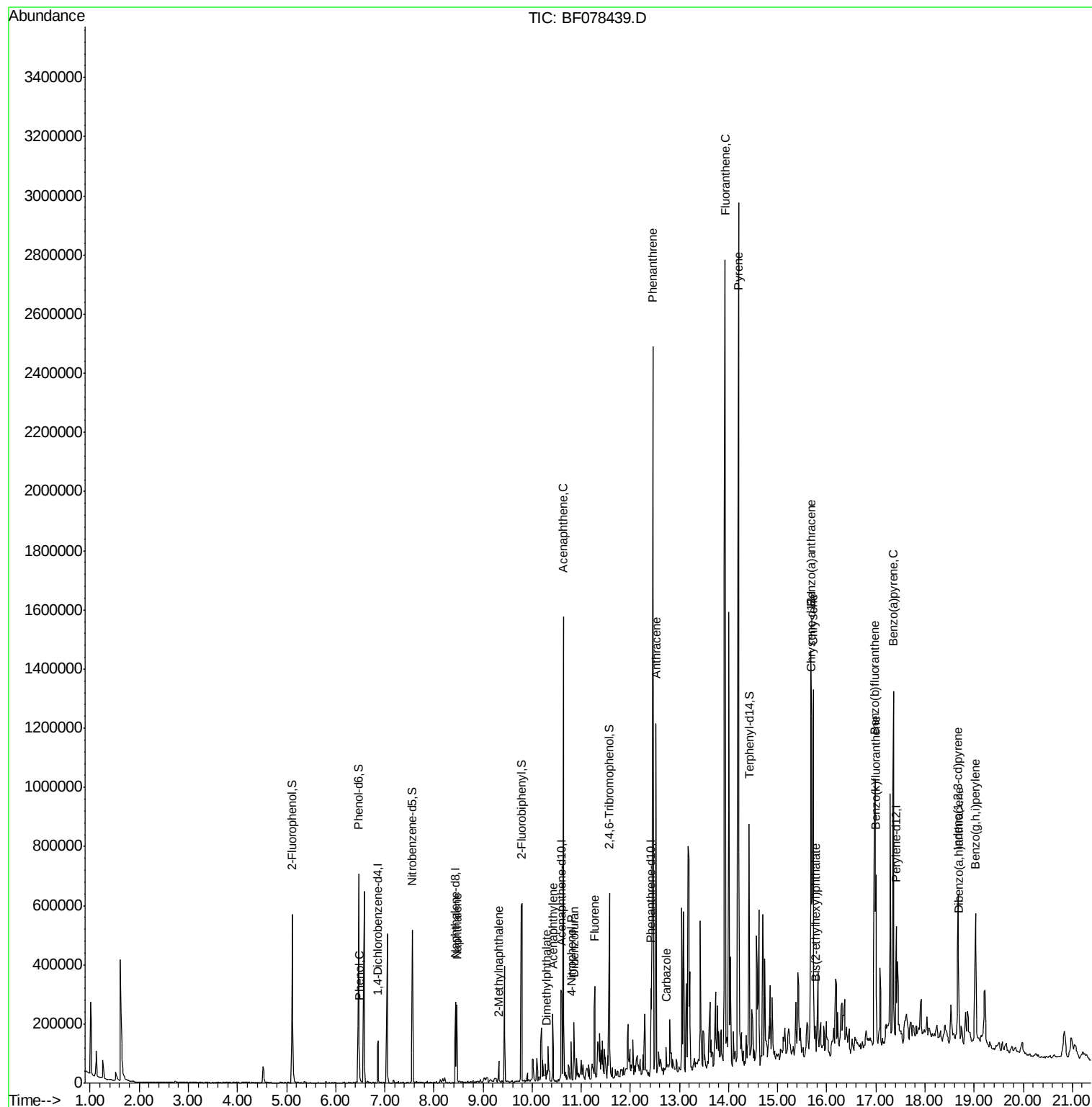
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041015\
Data File : BF078439.D
Acq On : 11 Apr 2015 12:44
Operator : TP/IZ
Sample : G1793-18
Misc :
ALS Vial : 37 Sample Multiplier: 1

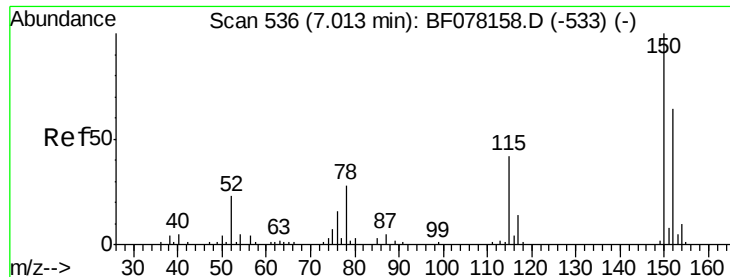
Instrument :
BNA_F
ClientSampleID :
SB-10D

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Quant Time: Apr 13 04:16:15 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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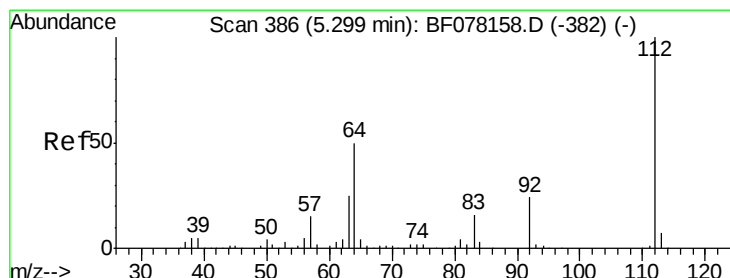
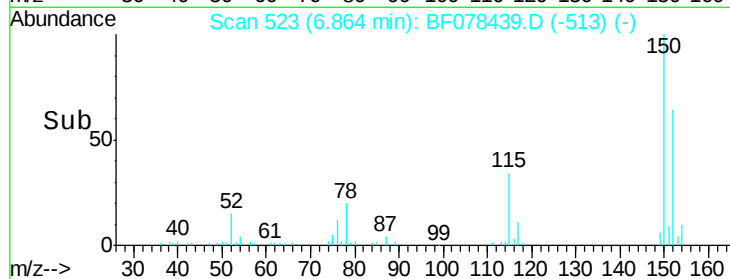
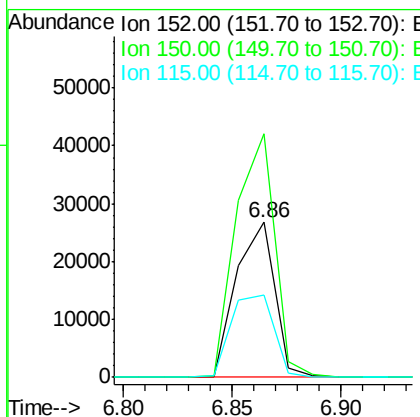
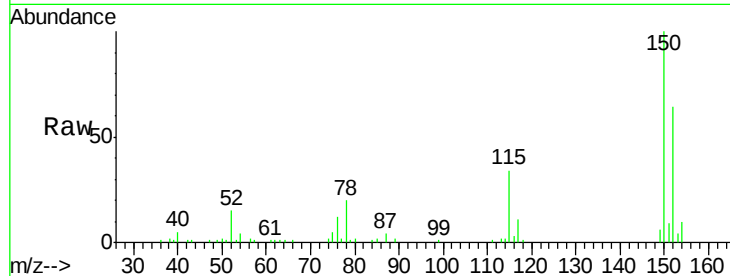
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.86 min Scan# 523
 Delta R.T. 0.01 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Instrument :
 BNA_F
 ClientSampleId :
 SB-10D

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	32978		
150	156.9	125.9	188.9	
115	53.1	52.7	79.1	

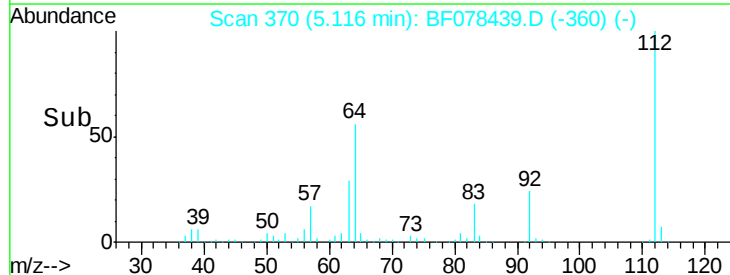
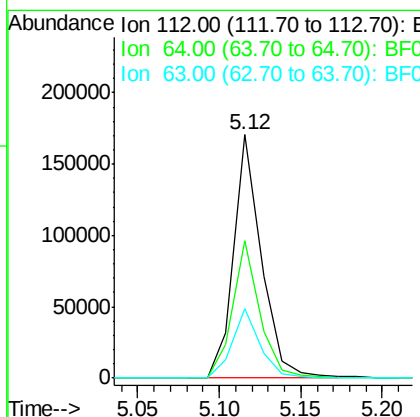
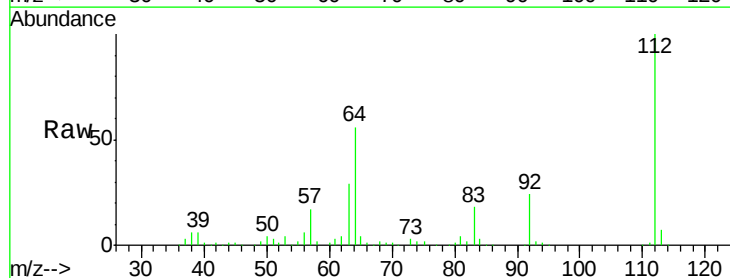
Manual Integrations
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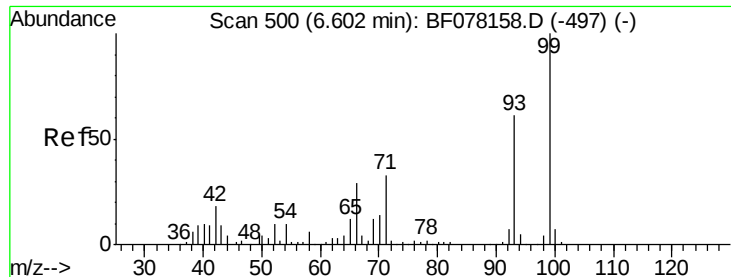
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#5
 2-Fluorophenol
 Concen: 100.23 ng
 RT: 5.12 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	200476		
64	56.5	39.9	59.9	
63	28.7	20.2	30.4	





#7

Phenol-d6

Concen: 109.29 ng

RT: 6.46 min Scan# 488

Delta R.T. 0.01 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

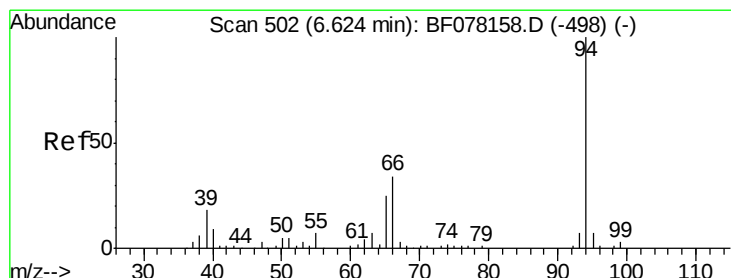
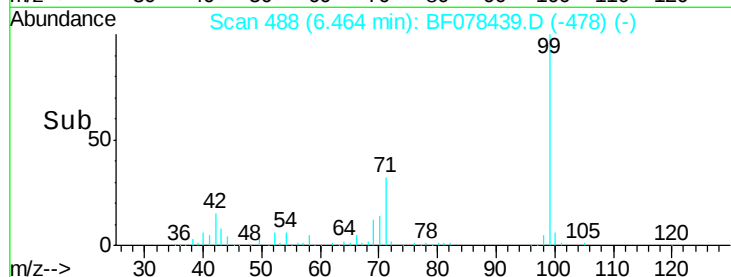
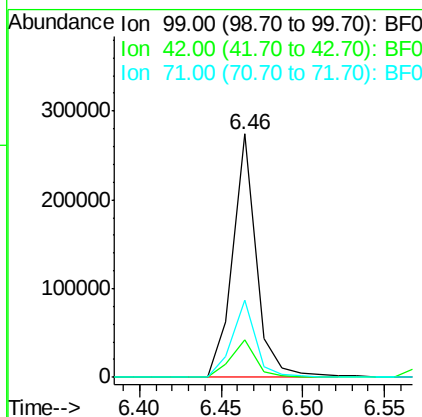
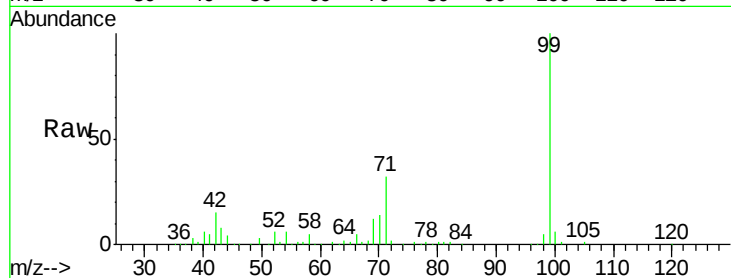
ClientSampled :

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Tgt Ion:	99	Resp:	273960
Ion Ratio	Lower	Upper	
99	100		
42	15.5	14.8	22.2
71	31.6	26.6	39.8

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#10

Phenol

Concen: 2.93 ng

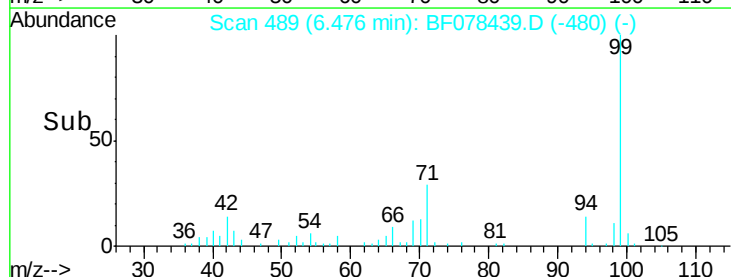
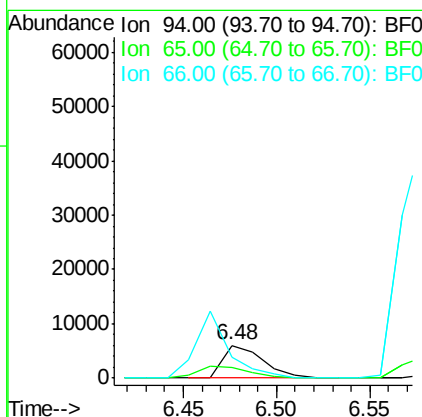
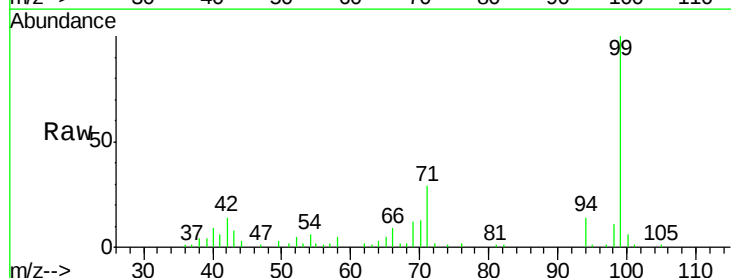
RT: 6.48 min Scan# 489

Delta R.T. -0.00 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Tgt Ion:	94	Resp:	8803
Ion Ratio	Lower	Upper	
94	100		
65	33.6	4.9	44.9
66	65.3	13.8	53.8#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.44 min Scan# 661

Delta R.T. -0.00 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

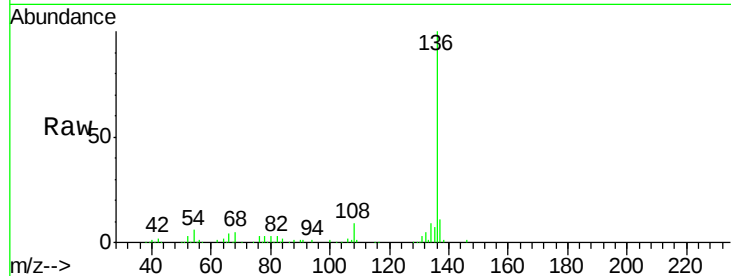
ClientSampleId :

SB-10D

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	141649		
137	10.7	9.0	13.4	
54	6.3	7.0	10.6	
68	5.1	5.4	8.2	

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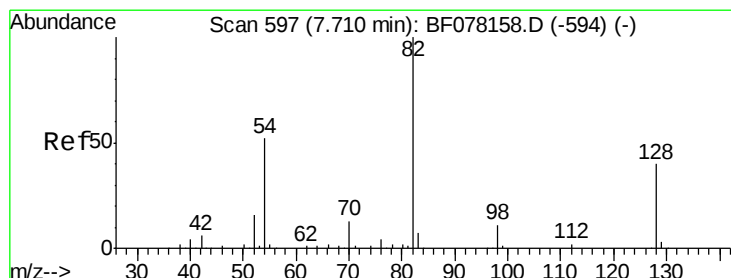
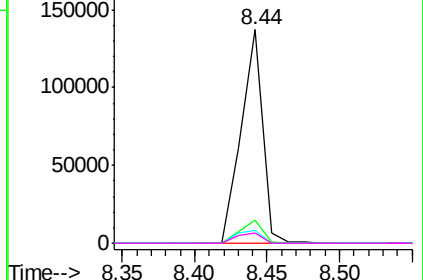
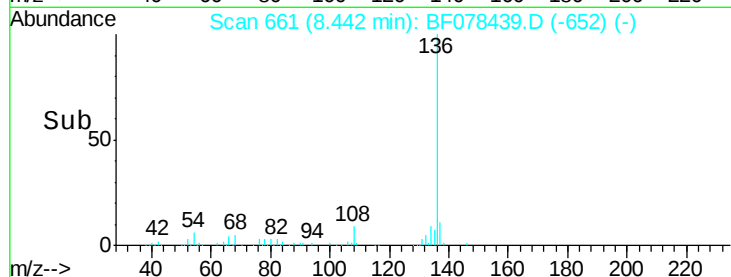


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 66.30 ng

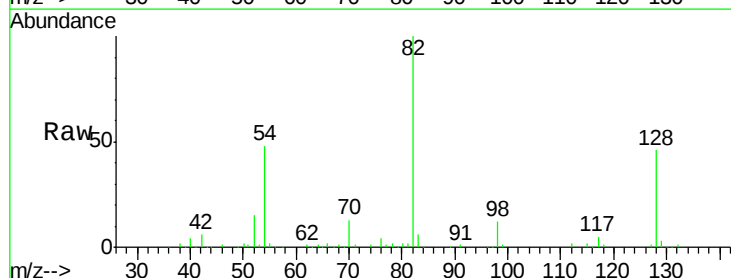
RT: 7.56 min Scan# 584

Delta R.T. -0.00 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

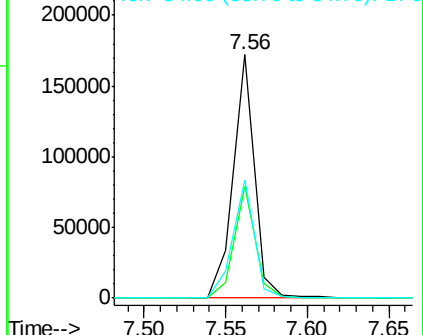
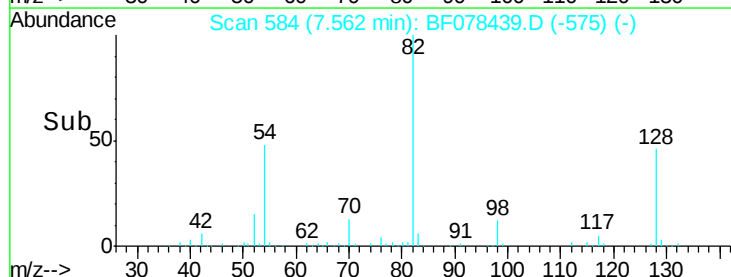
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	154950		
128	46.1	31.8	47.8	
54	48.4	41.5	62.3	

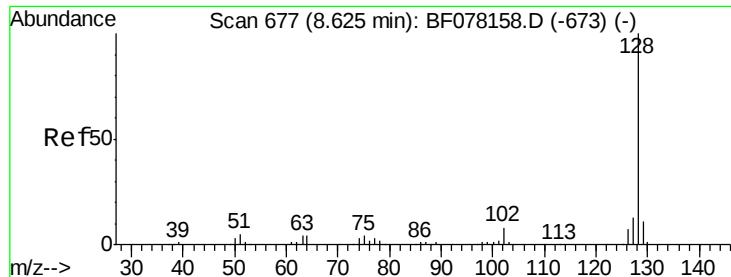


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 15.96 ng

RT: 8.46 min Scan# 663

Delta R.T. -0.00 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

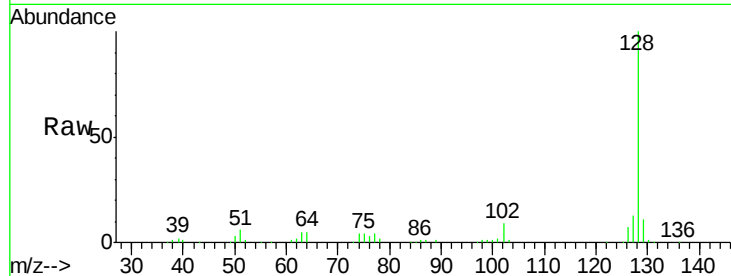
ClientSampleId :

SB-10D

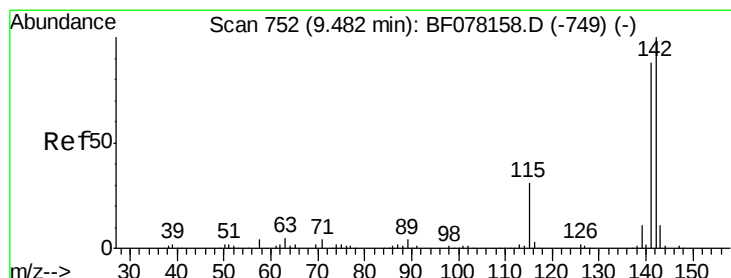
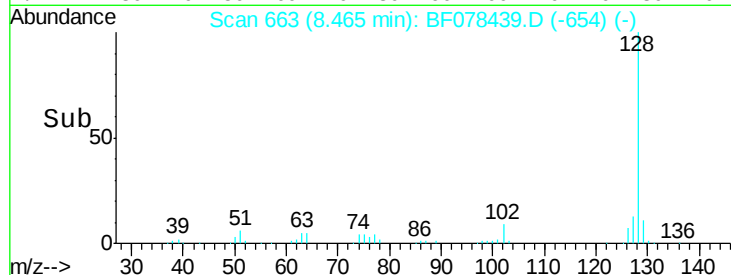
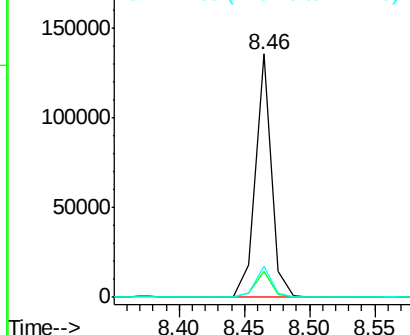
Tgt Ion:	128	Resp:	117684
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.6	12.8
127	12.7	10.7	16.1

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 3.93 ng

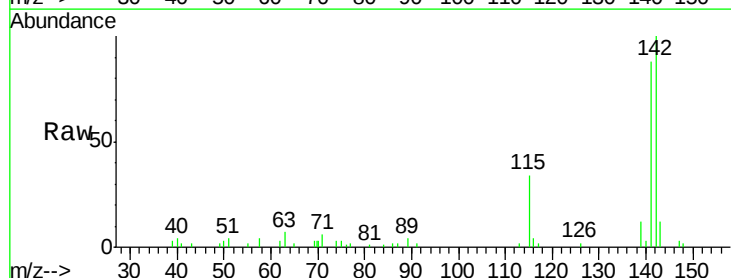
RT: 9.32 min Scan# 738

Delta R.T. -0.00 min

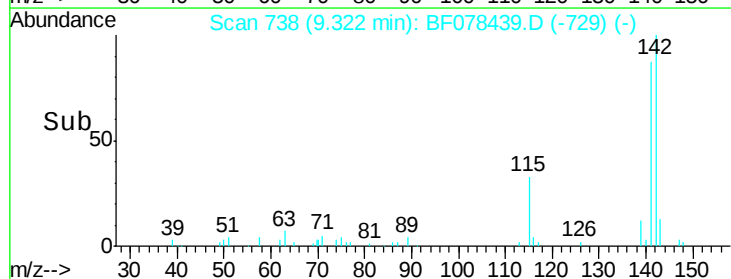
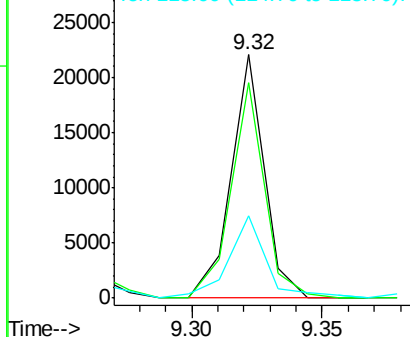
Lab File: BF078439.D

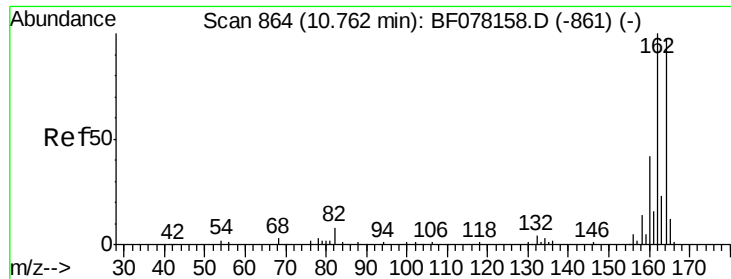
Acq: 11 Apr 2015 12:44

Tgt Ion:	142	Resp:	19676
Ion Ratio	Lower	Upper	
142	100		
141	88.5	70.3	105.5
115	33.9	24.6	37.0



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.59 min Scan# 849

Delta R.T. -0.00 min

Lab File: BF078439.D

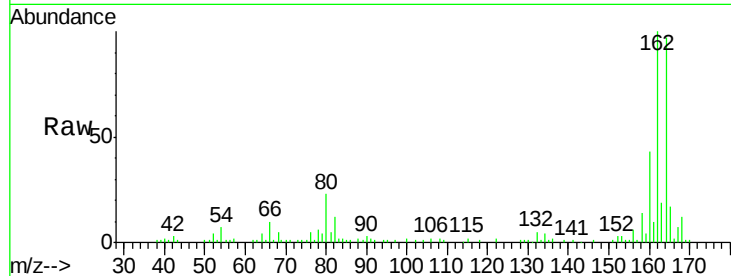
Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

ClientSampleId :

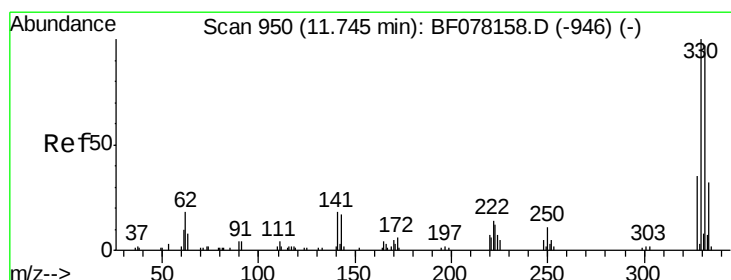
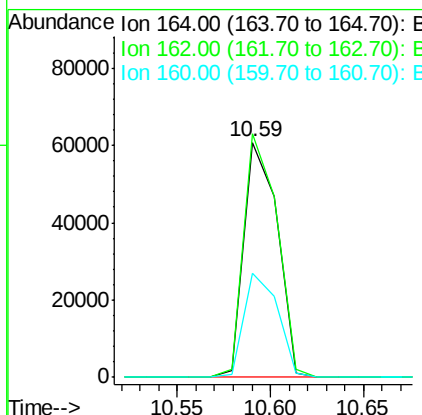
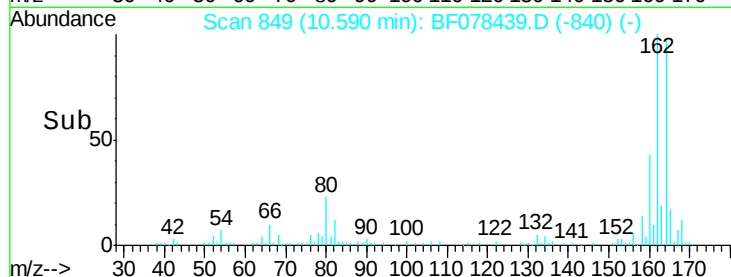
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Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.2	123.2
160	44.5	34.7	52.1

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#41

2,4,6-Tribromophenol

Concen: 113.08 ng

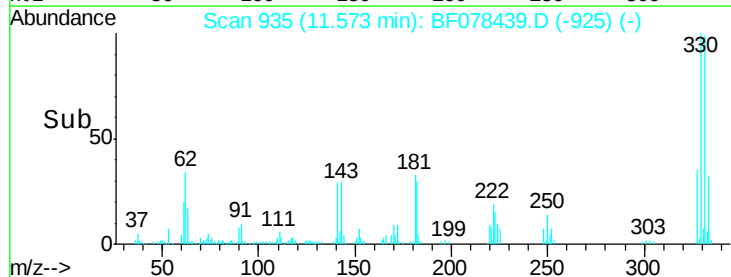
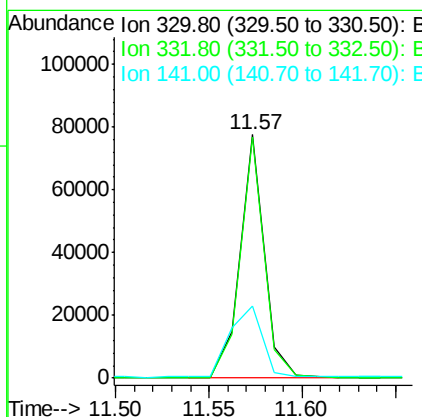
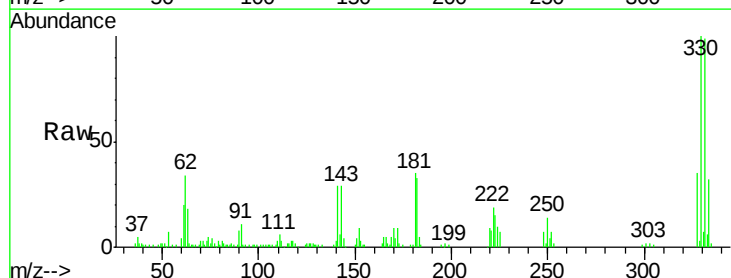
RT: 11.57 min Scan# 935

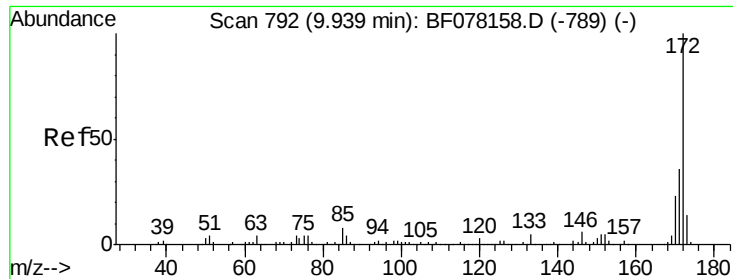
Delta R.T. 0.01 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.0	78.6	117.8
141	39.2	31.2	46.8





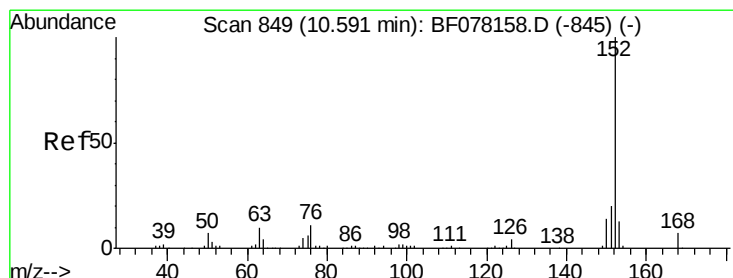
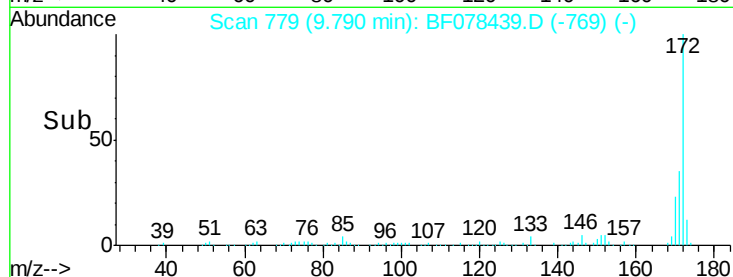
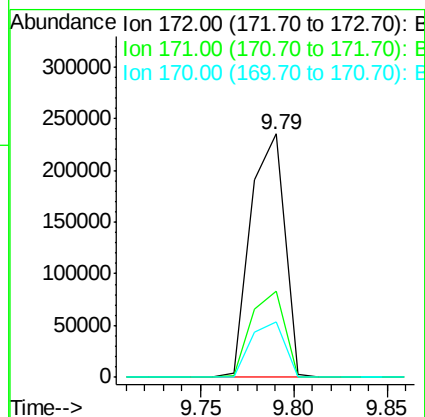
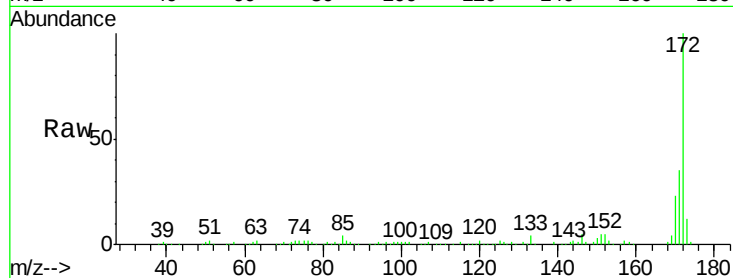
#44
 2-Fluorobiphenyl
 Concen: 56.29 ng
 RT: 9.79 min Scan# 779
 Delta R.T. 0.01 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Instrument :
 BNA_F
 ClientSampleId :
 SB-10D

Tgt Ion:	172	Resp:	298220
Ion Ratio		Lower	Upper
172	100		
171	35.2	28.6	42.8
170	22.8	18.5	27.7

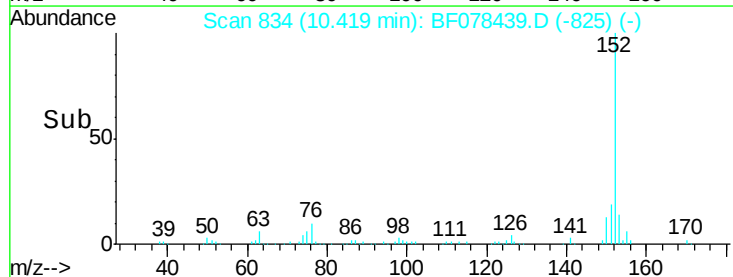
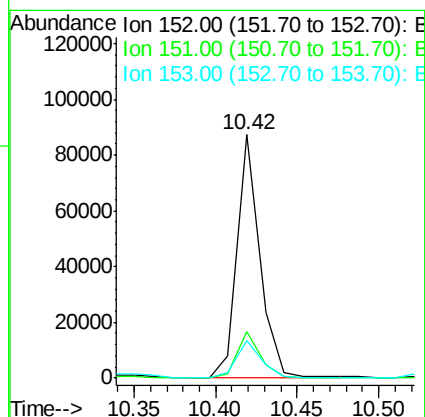
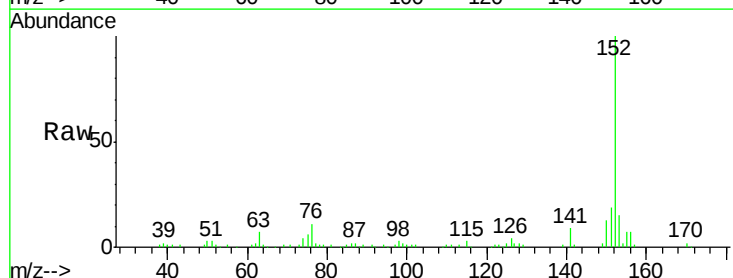
Manual Integrations
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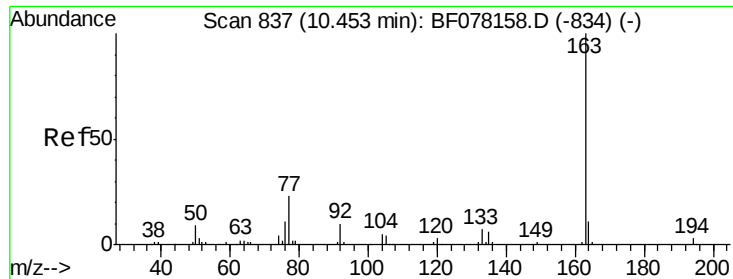
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#48
 Acenaphthylene
 Concen: 10.70 ng
 RT: 10.42 min Scan# 834
 Delta R.T. -0.00 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Tgt Ion:	152	Resp:	84171
Ion Ratio		Lower	Upper
152	100		
151	19.1	15.7	23.5
153	15.3	10.2	15.2#





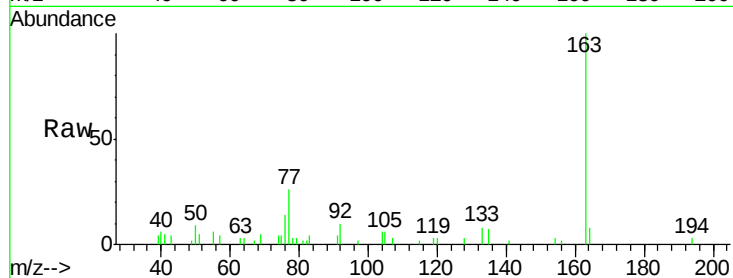
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Dimethylphthalate
Concen: 2.80 ng
RT: 10.29 min Scan# 823
Delta R.T. -0.00 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Instrument :
BNA_F
ClientSampleId :
SB-10D

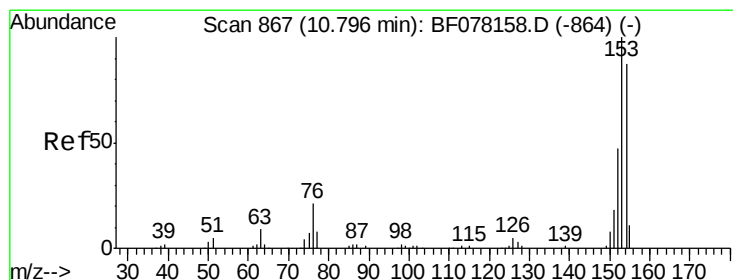
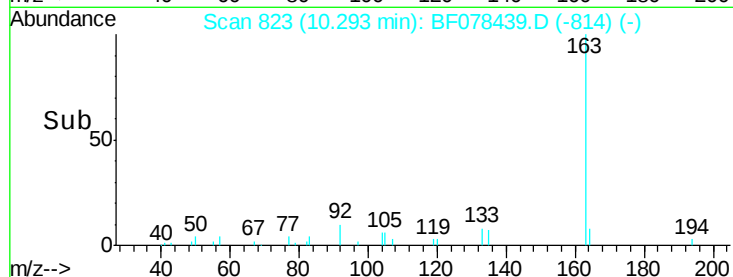
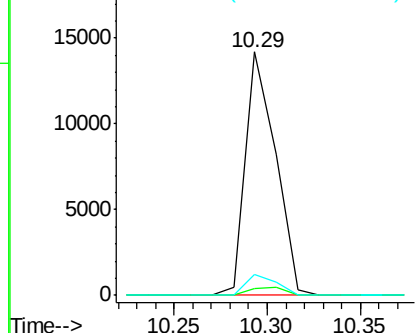
Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.0	2.3	3.5
164	8.4	8.6	13.0#

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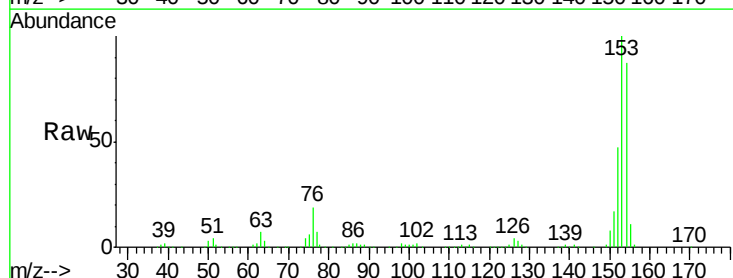


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

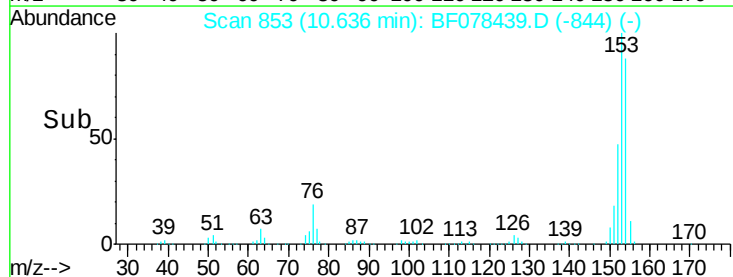
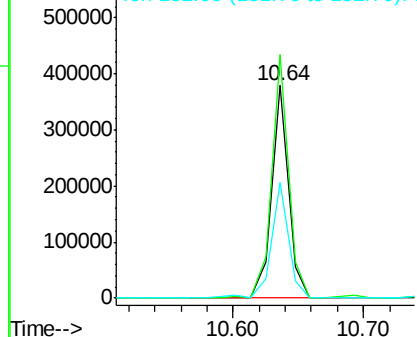


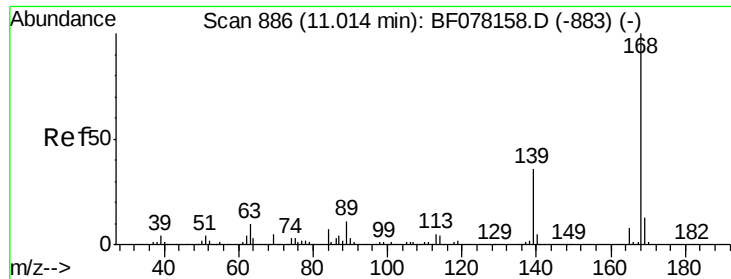
#51
Acenaphthene
Concen: 77.79 ng
RT: 10.64 min Scan# 853
Delta R.T. -0.00 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	114.5	91.4	137.2
152	54.1	43.0	64.6



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





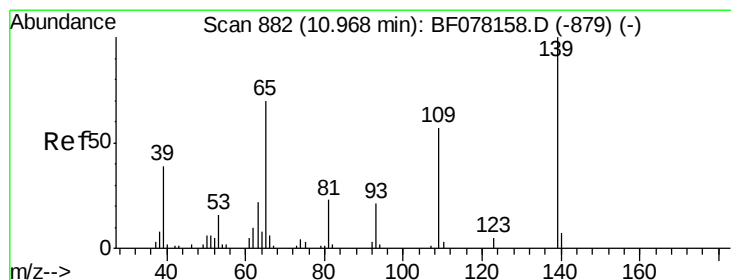
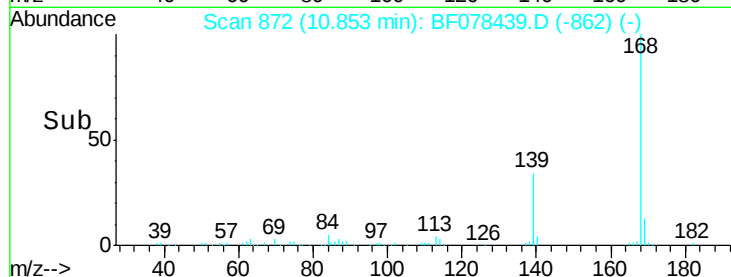
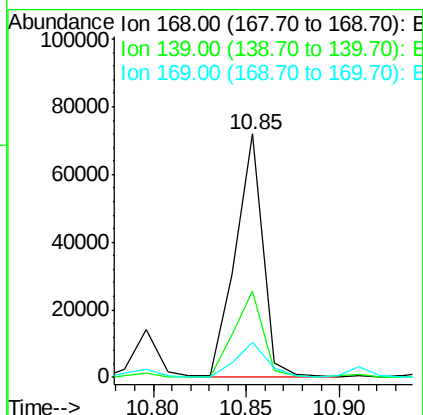
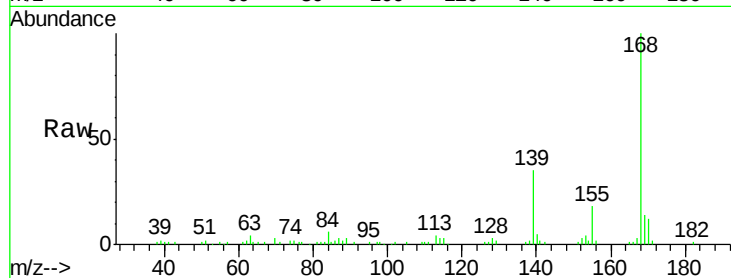
#54
Dibenzofuran
Concen: 11.02 ng
RT: 10.85 min Scan# 872
Delta R.T. 0.01 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Instrument :
BNA_F
ClientSampled :
SB-10D

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	74560		
139	35.4	31.0	46.4	
169	14.2	10.7	16.1	

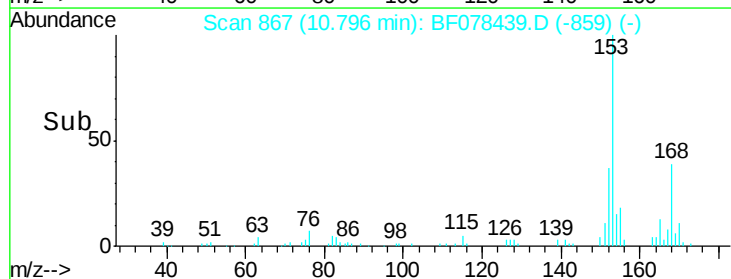
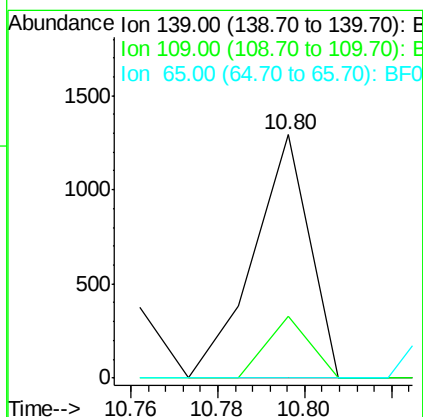
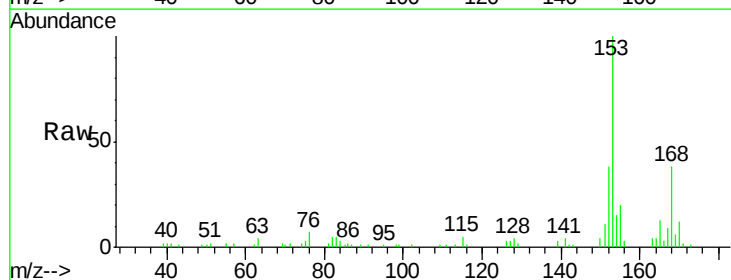
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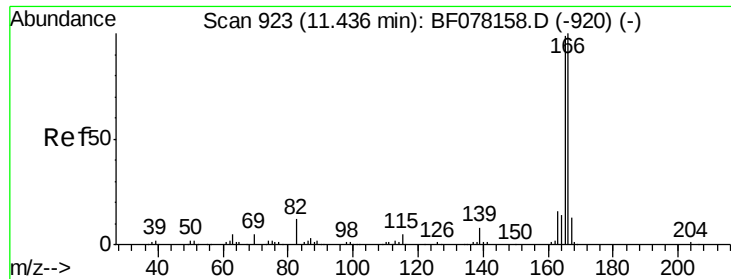
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#55
4-Nitrophenol
Concen: 3.90 ng
RT: 10.80 min Scan# 867
Delta R.T. -0.01 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	1148		
109	25.3	36.7	76.7#	
65	0.0	49.9	89.9#	





#57

Fluorene

Concen: 23.96 ng

RT: 11.28 min Scan# 909

Delta R.T. 0.01 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

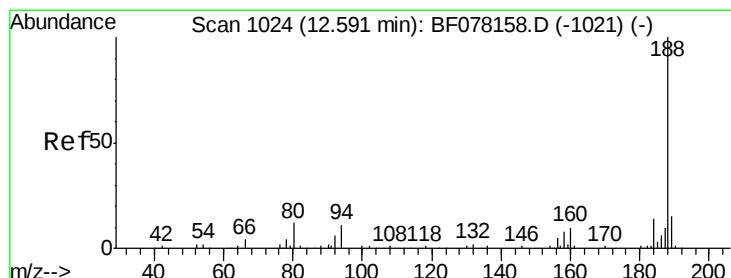
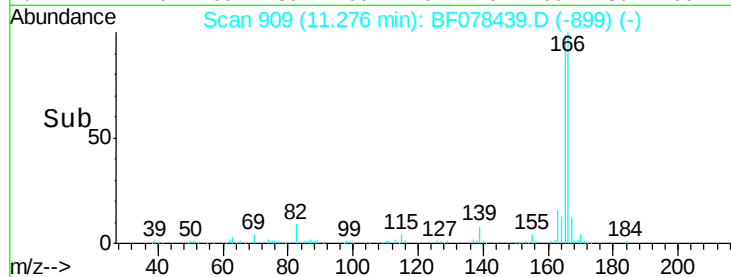
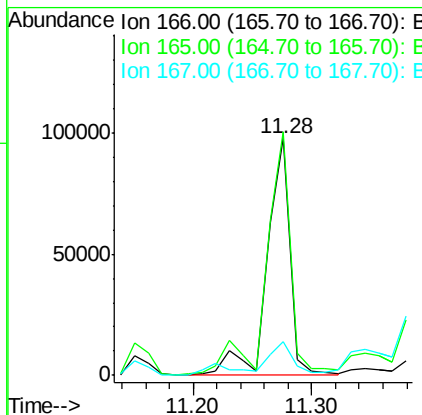
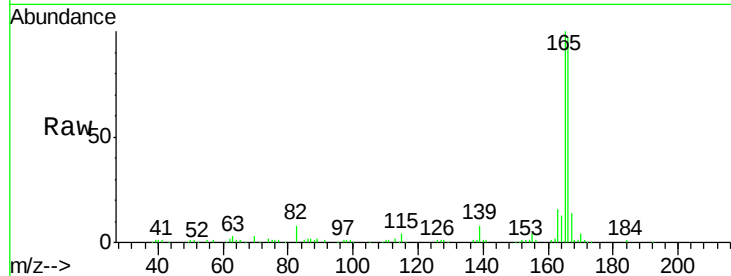
ClientSampled :

SB-10D

Tgt Ion:	166	Resp:	131433
Ion Ratio	Lower	Upper	
166	100		
165	102.9	78.9	118.3
167	14.4	10.7	16.1

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#63

Phenanthrene-d10

Concen: 20.00 ng

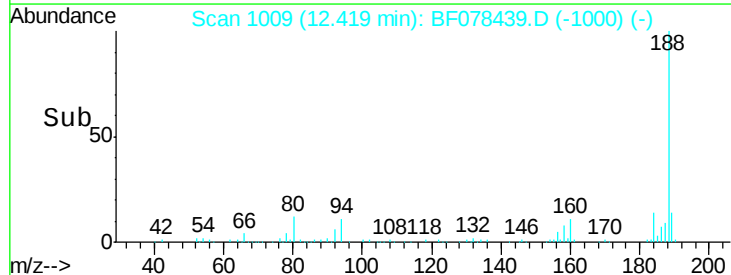
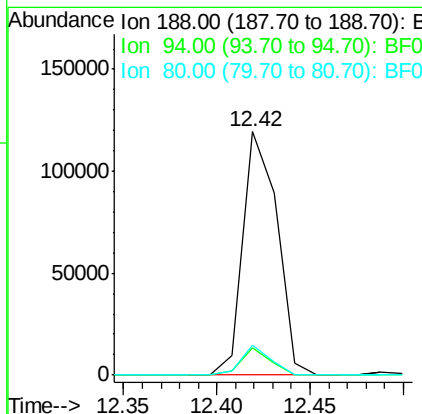
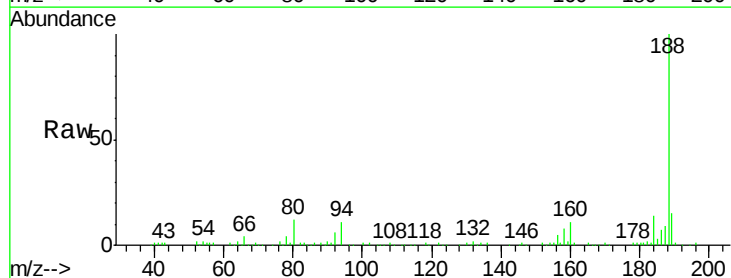
RT: 12.42 min Scan# 1009

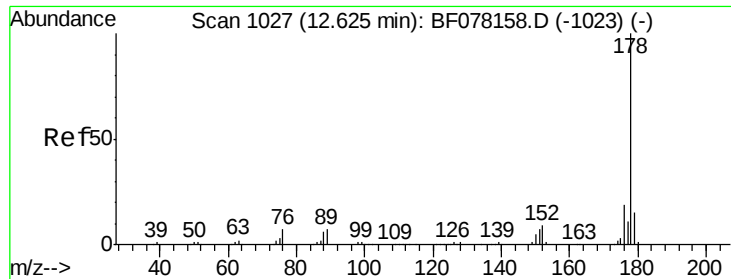
Delta R.T. -0.00 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Tgt Ion:	188	Resp:	154214
Ion Ratio	Lower	Upper	
188	100		
94	11.3	9.0	13.4
80	12.0	9.5	14.3





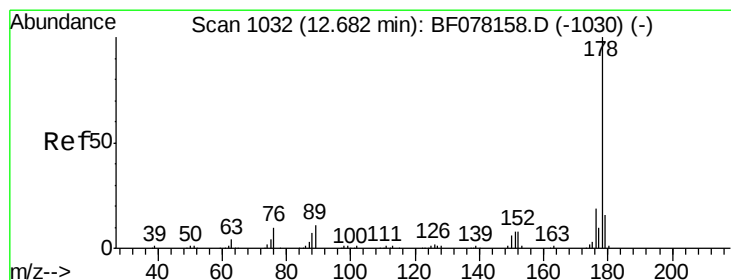
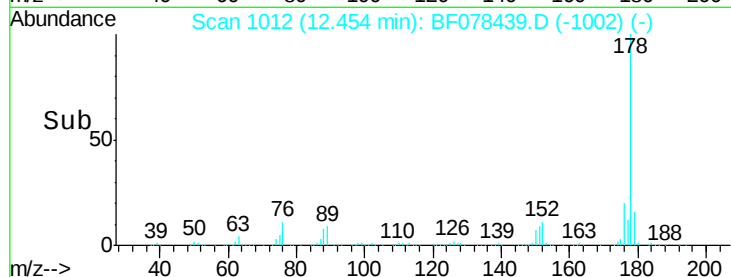
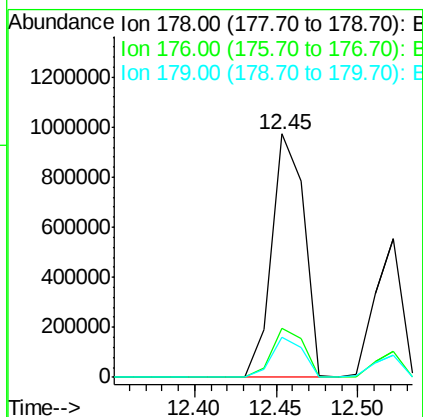
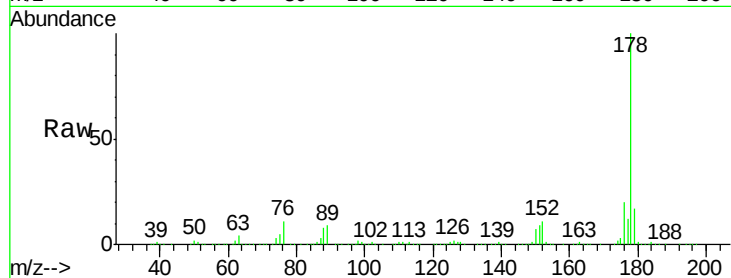
#70
Phenanthrene
Concen: 150.47 ng
RT: 12.45 min Scan# 1012
Delta R.T. 0.01 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Instrument :
BNA_F
ClientSampleId :
SB-10D

Tgt Ion:178 Resp: 1342235
Ion Ratio Lower Upper
178 100
176 20.1 15.4 23.0
179 16.5 12.2 18.2

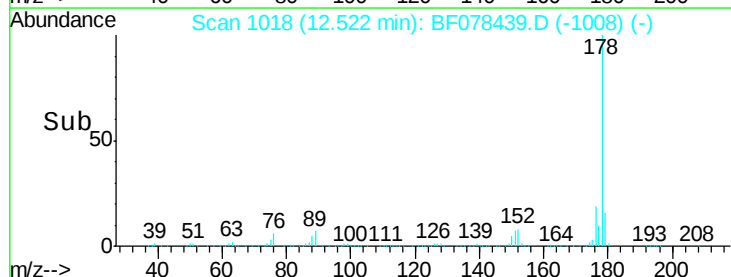
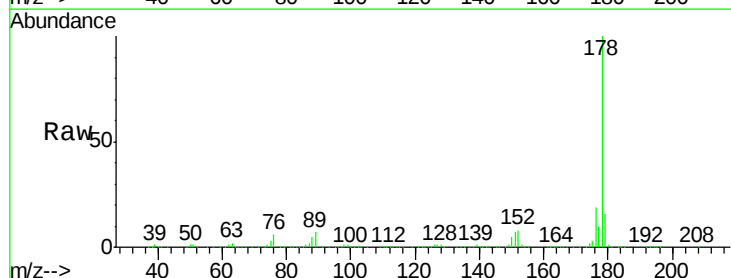
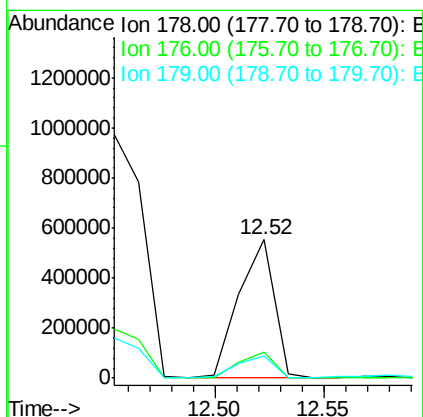
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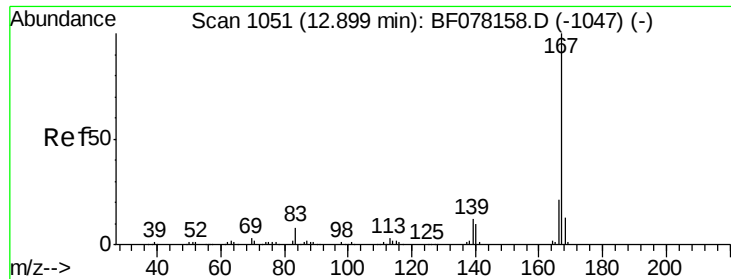
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#71
Anthracene
Concen: 70.49 ng
RT: 12.52 min Scan# 1018
Delta R.T. 0.01 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Tgt Ion:178 Resp: 619642
Ion Ratio Lower Upper
178 100
176 19.0 14.8 22.2
179 15.6 12.4 18.6





#72

Carbazole

Concen: 3.42 ng

RT: 12.73 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

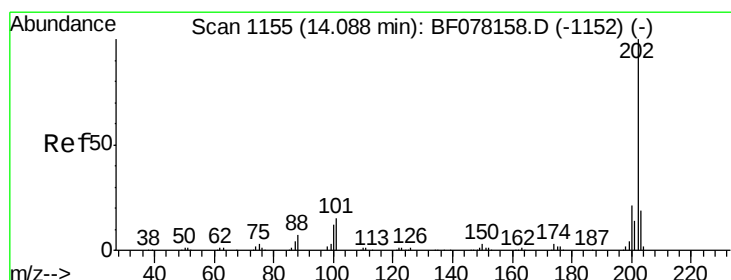
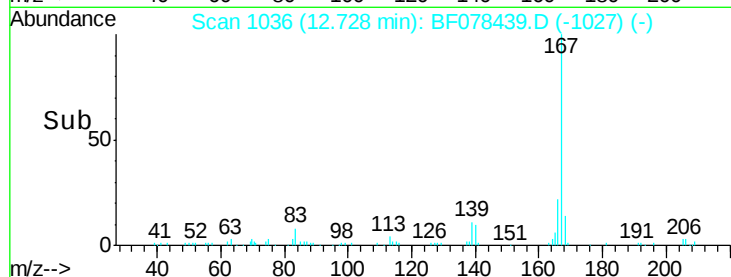
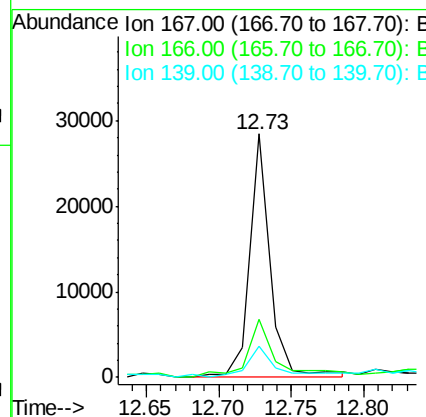
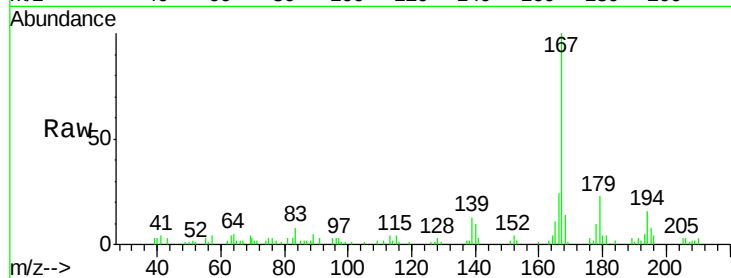
ClientSampleId :

SB-10D

Tgt Ion:	167	Resp:	28206
Ion Ratio	Lower	Upper	
167	100		
166	23.7	16.8	25.2
139	12.8	10.0	15.0

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#74

Fluoranthene

Concen: 149.85 ng

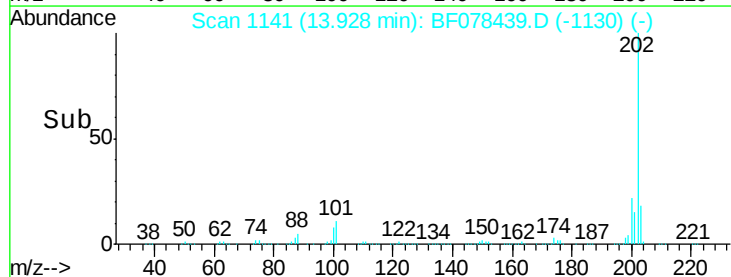
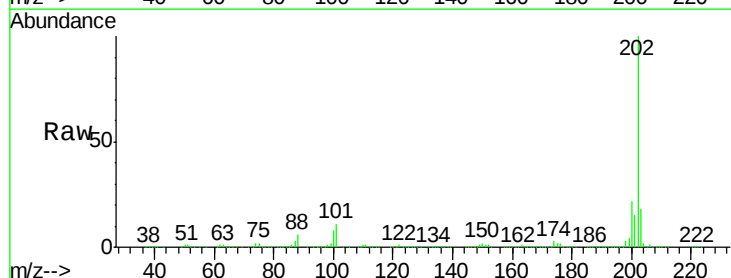
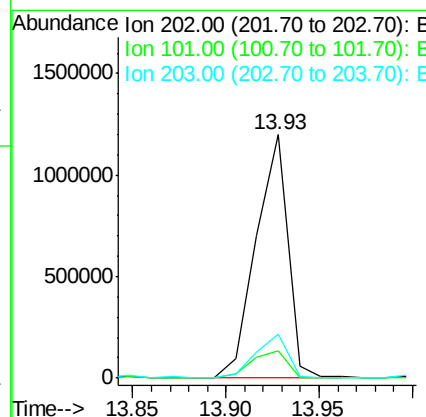
RT: 13.93 min Scan# 1141

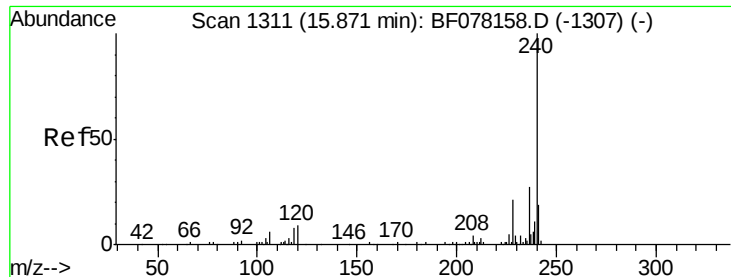
Delta R.T. 0.02 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Tgt Ion:	202	Resp:	1409724
Ion Ratio	Lower	Upper	
202	100		
101	11.4	0.0	35.2
203	18.2	0.0	38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.69 min Scan# 1295

Delta R.T. 0.01 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

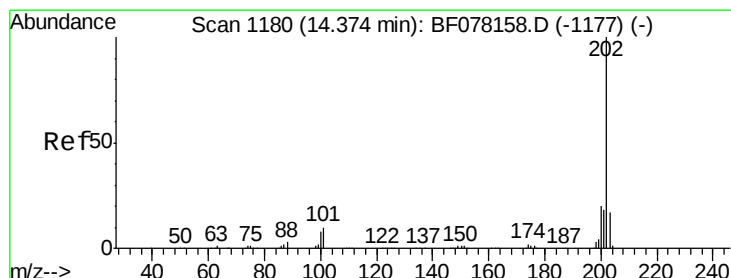
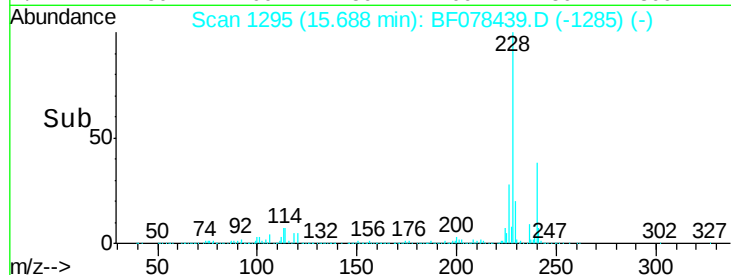
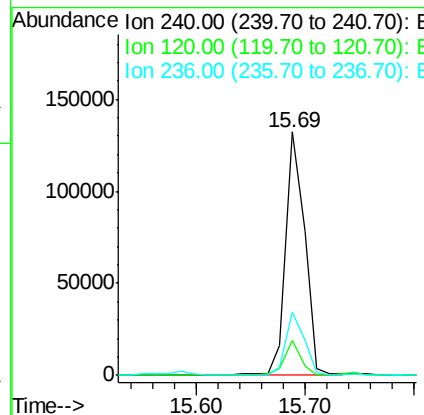
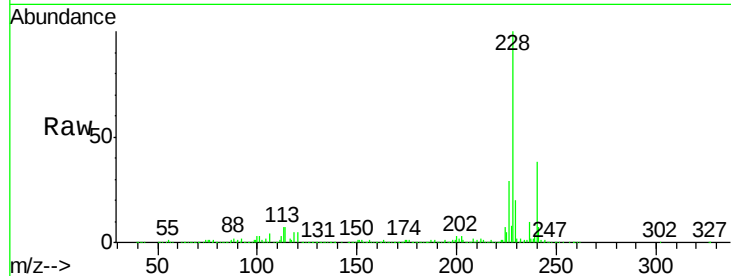
ClientSampleId :

SB-10D

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	157766		
120	14.3	7.1	10.7#	
236	25.8	21.4	32.2	

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#77

Pyrene

Concen: 154.48 ng

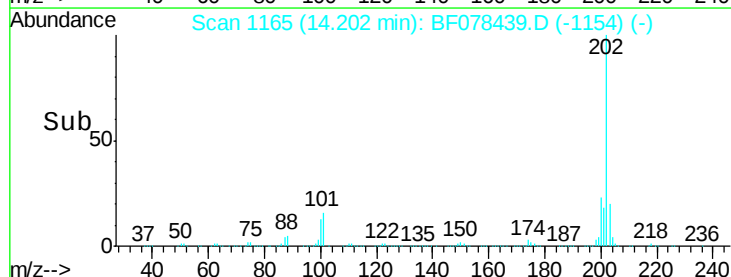
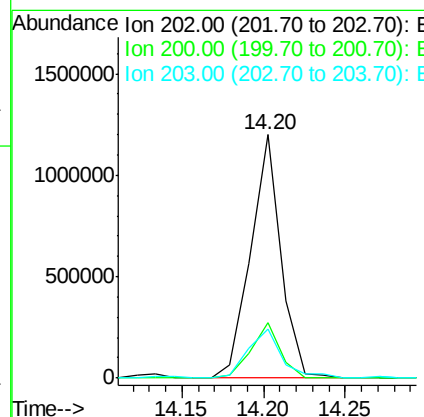
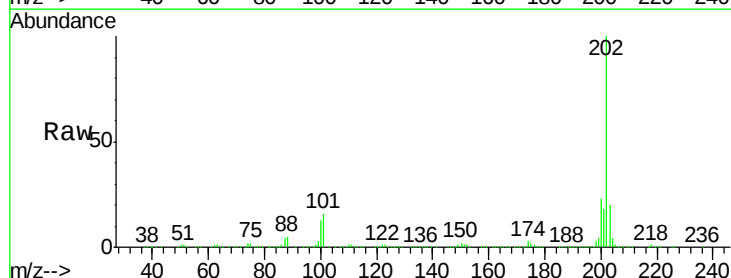
RT: 14.20 min Scan# 1165

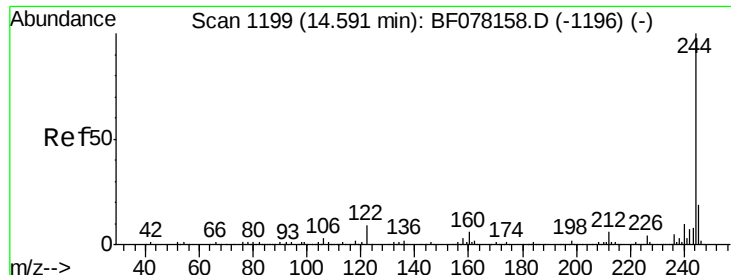
Delta R.T. 0.02 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1529994		
200	22.6	16.3	24.5	
203	20.4	13.8	20.6	





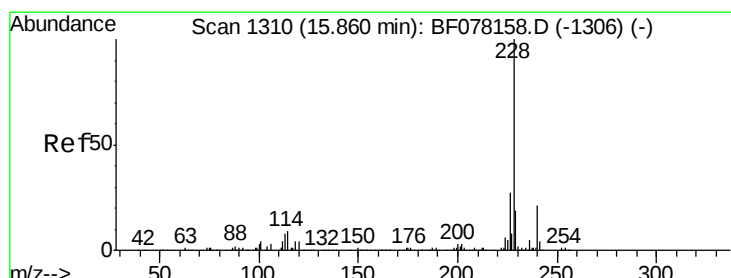
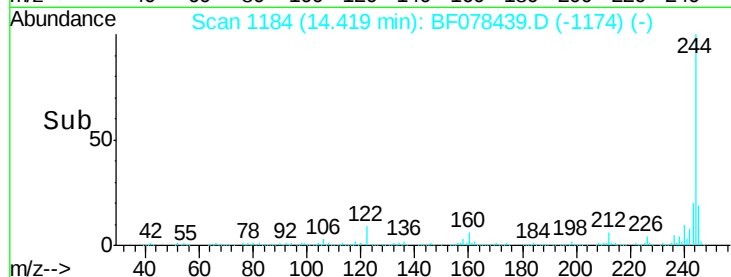
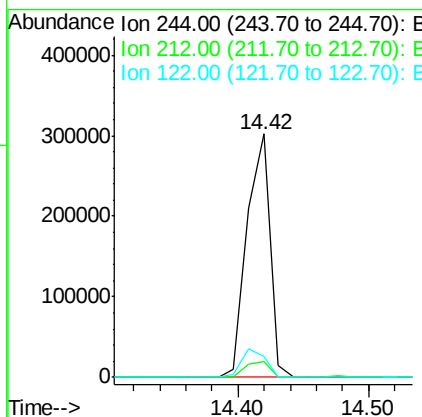
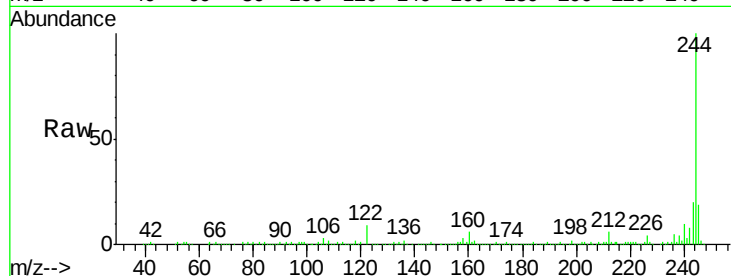
#78
 Terphenyl-d14
 Concen: 53.10 ng
 RT: 14.42 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Instrument :
 BNA_F
 ClientSampleId :
 SB-10D

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.5	5.0	7.4
122	8.7	7.1	10.7

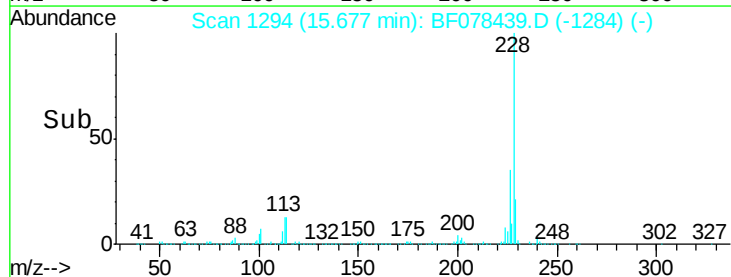
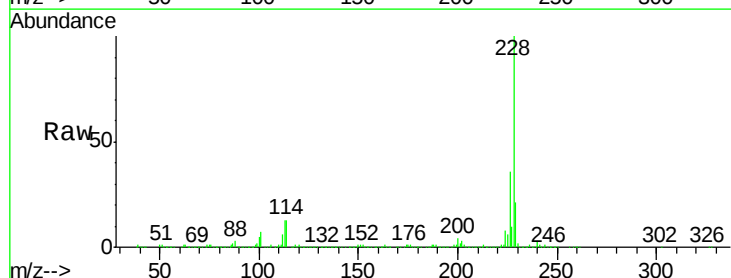
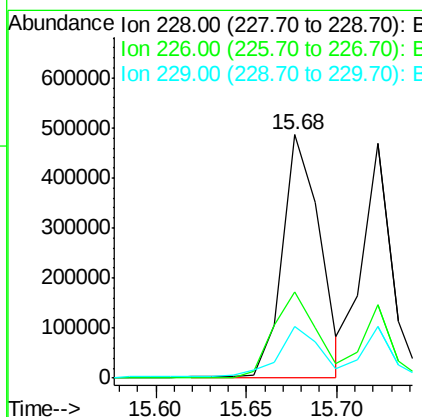
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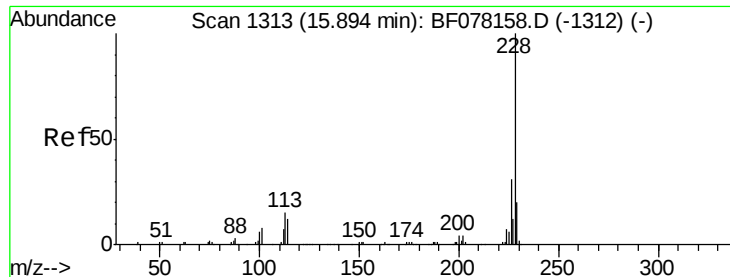
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#80
 Benzo(a)anthracene
 Concen: 75.85 ng m
 RT: 15.68 min Scan# 1294
 Delta R.T. 0.01 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	35.6	21.3	31.9#
229	21.1	15.4	23.2





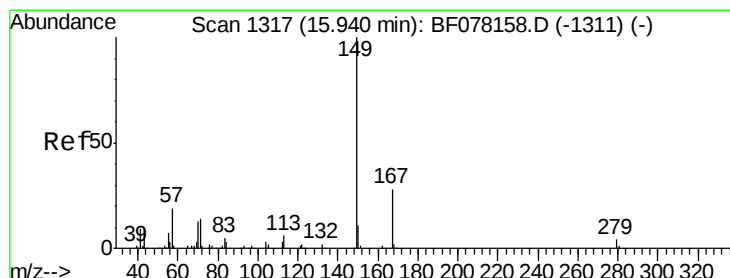
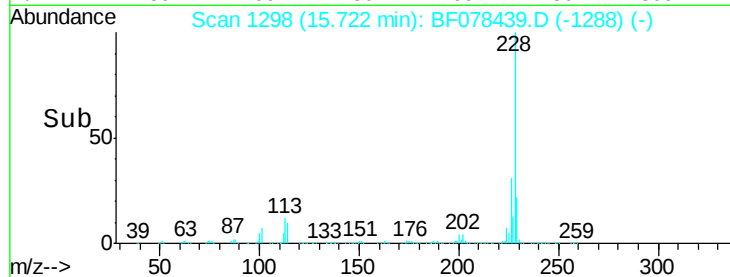
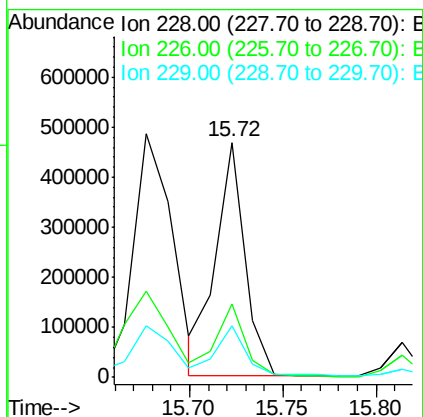
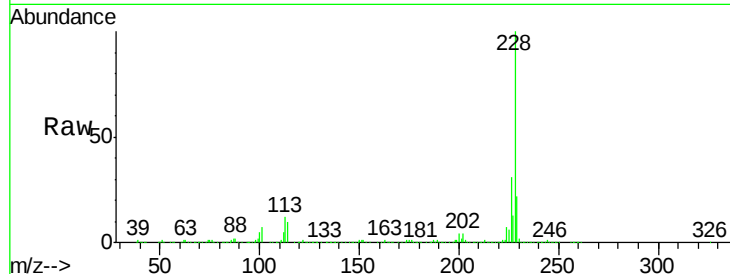
#82
 Chrysene
 Concen: 58.20 ng
 RT: 15.72 min Scan# 1298
 Delta R.T. 0.01 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Instrument :
 BNA_F
 ClientSampleId :
 SB-10D

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.2	36.4
229	22.1	15.8	23.8

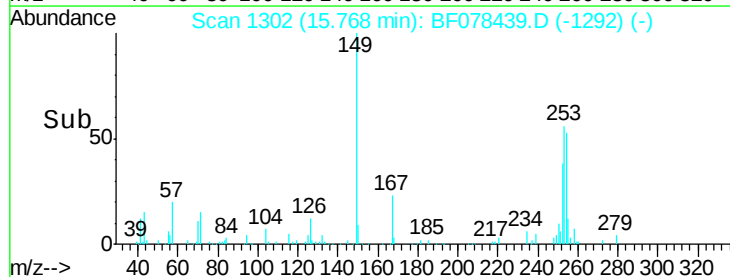
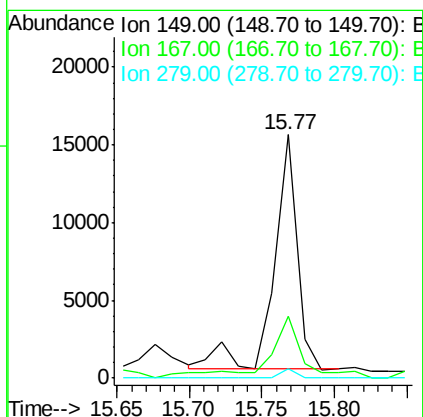
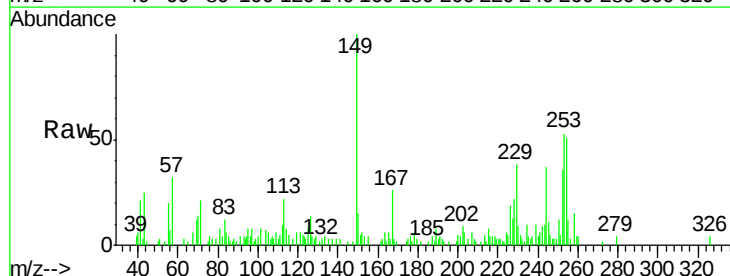
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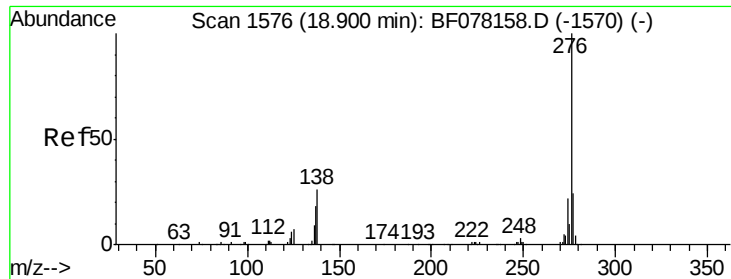
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#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.81 ng
 RT: 15.77 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	22.2	33.2
279	3.9	3.2	4.8





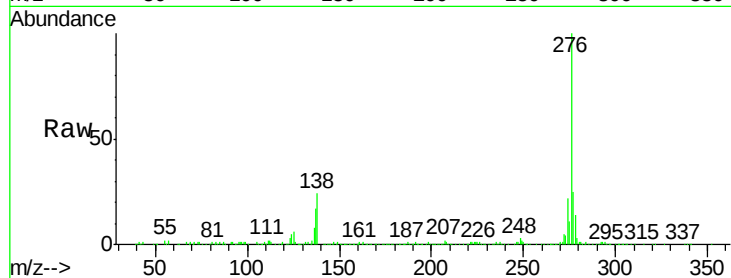
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 31.24 ng m
 RT: 18.67 min Scan# 1556
 Delta R.T. 0.15 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Instrument :
 BNA_F
 ClientSampleId :
 SB-10D

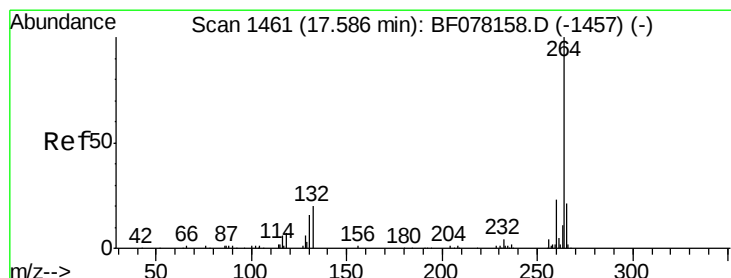
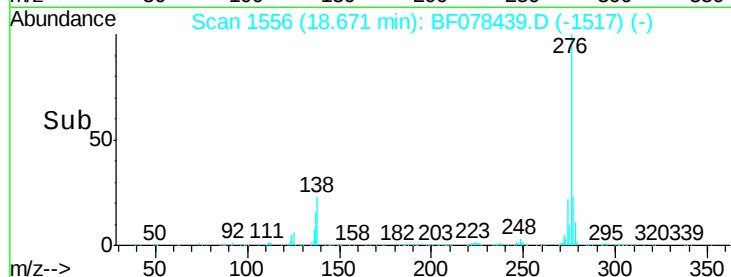
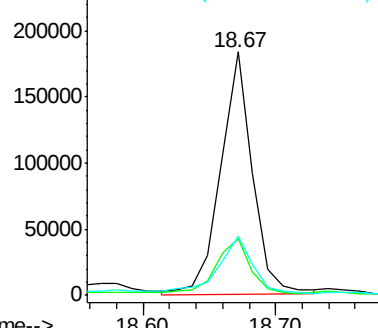
Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.7	16.9	25.3#
277	5.0	15.8	23.6#

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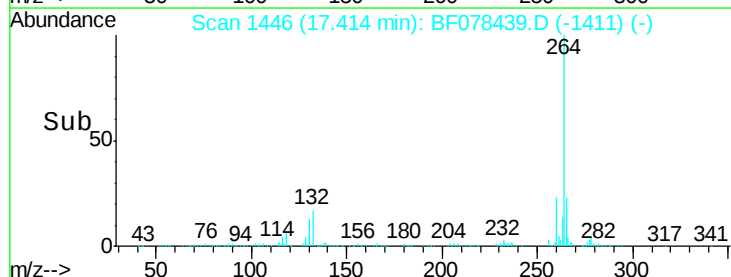
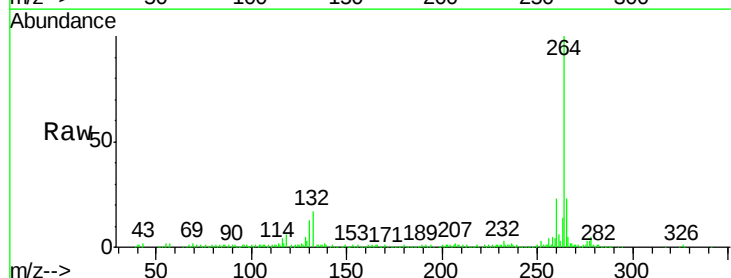
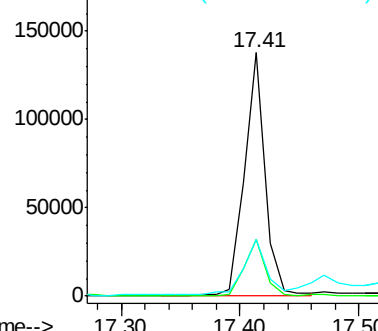
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

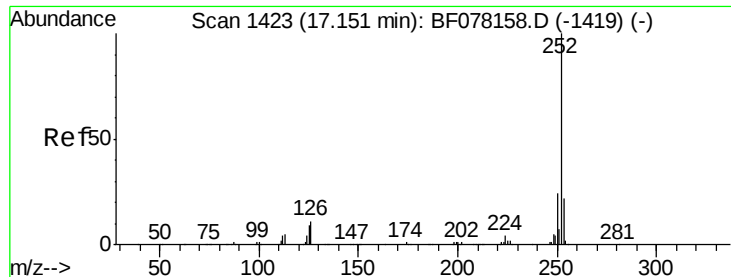


#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.41 min Scan# 1446
 Delta R.T. 0.10 min
 Lab File: BF078439.D
 Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	27.8
265	23.3	17.0	25.6

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





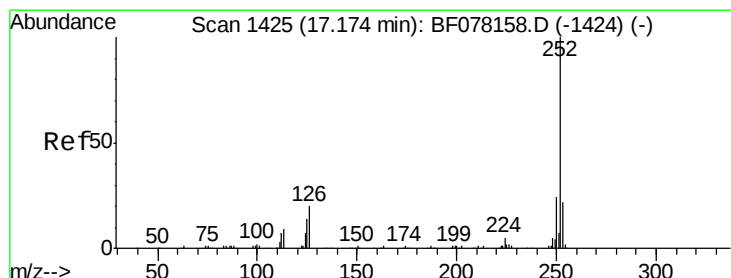
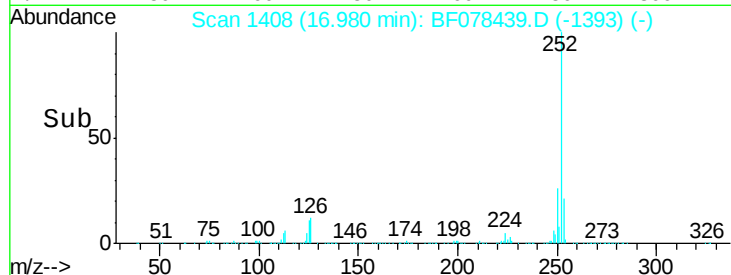
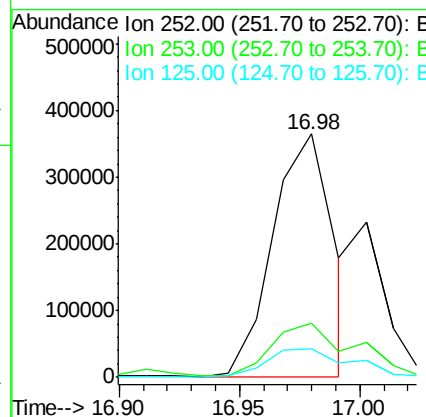
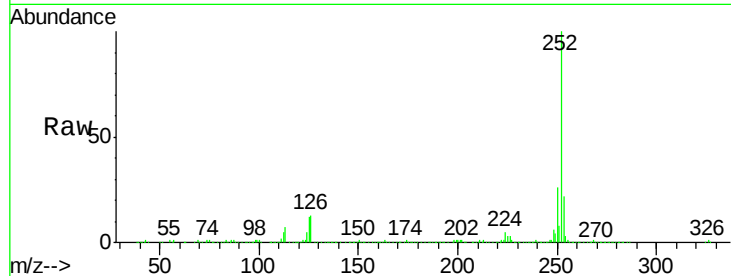
#87
Benzo(b)fluoranthene
Concen: 62.51 ng m
RT: 16.98 min Scan# 1408
Delta R.T. 0.07 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Instrument :
BNA_F
ClientSampleId :
SB-10D

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.2	25.8
125	11.7	7.0	10.4

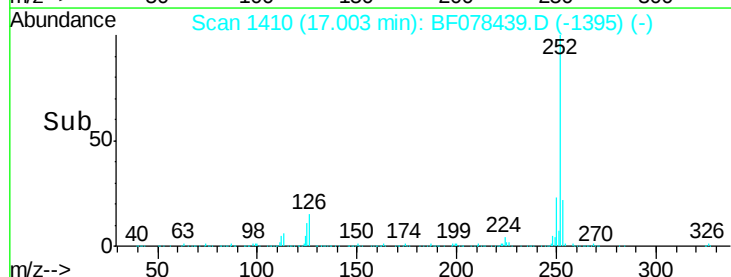
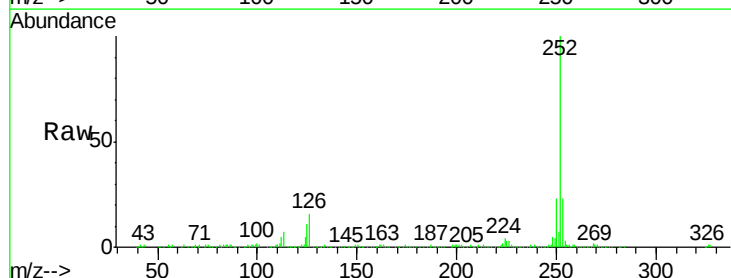
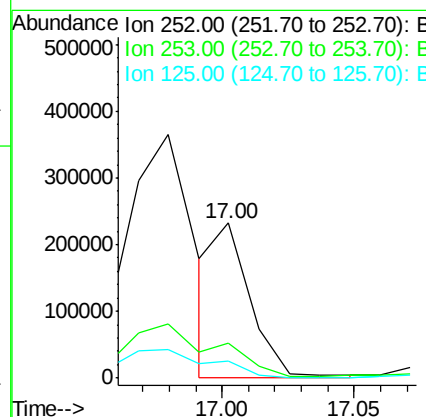
Manual Integrations
APPROVED

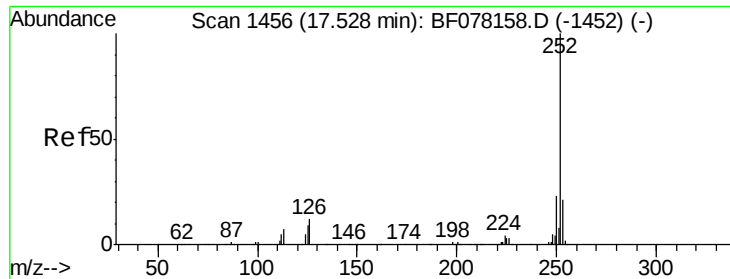
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#88
Benzo(k)fluoranthene
Concen: 24.18 ng m
RT: 17.00 min Scan# 1410
Delta R.T. 0.07 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	11.3	11.6	17.4





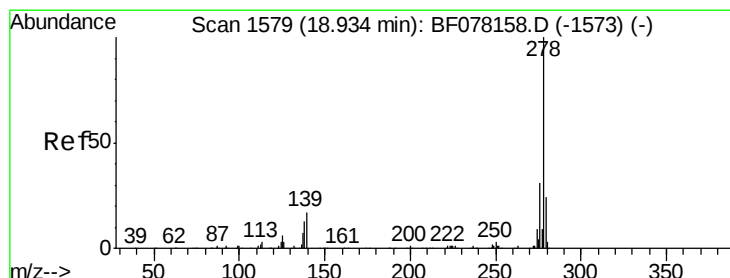
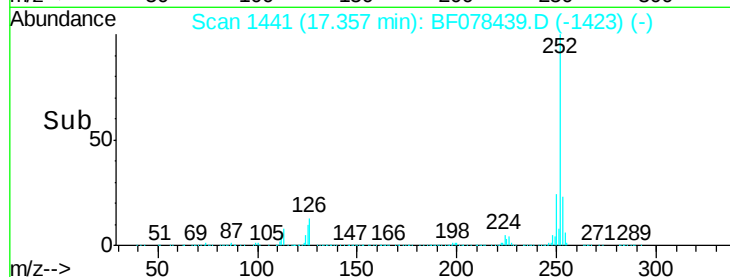
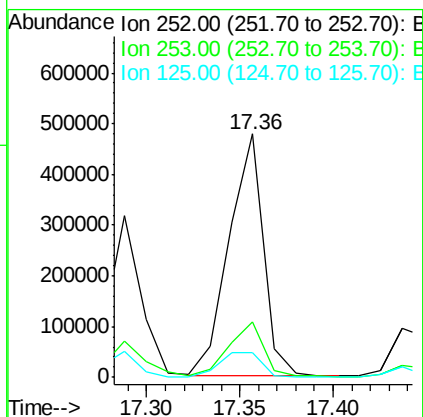
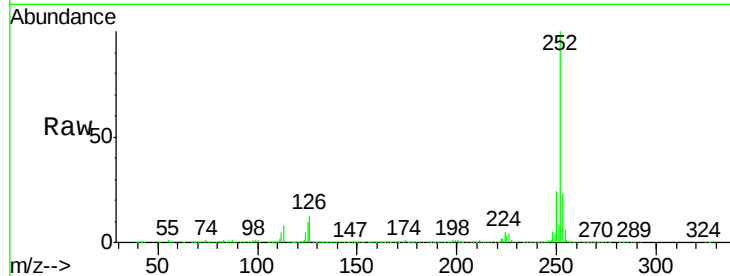
#89
Benzo(a)pyrene
Concen: 68.89 ng
RT: 17.36 min Scan# 1441
Delta R.T. 0.10 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Instrument :
BNA_F
ClientSampleId :
SB-10D

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	16.8	25.2
125	10.2	7.4	11.0

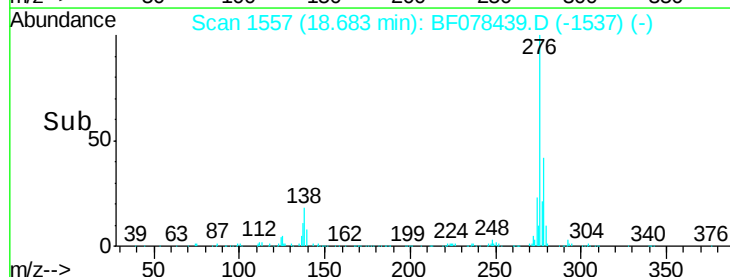
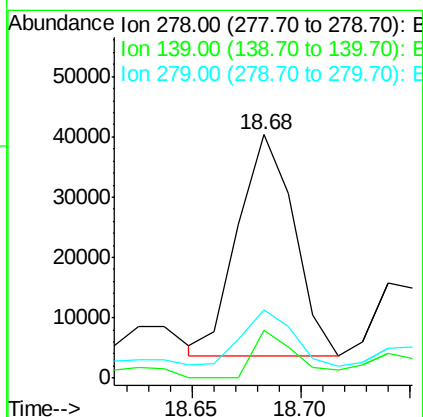
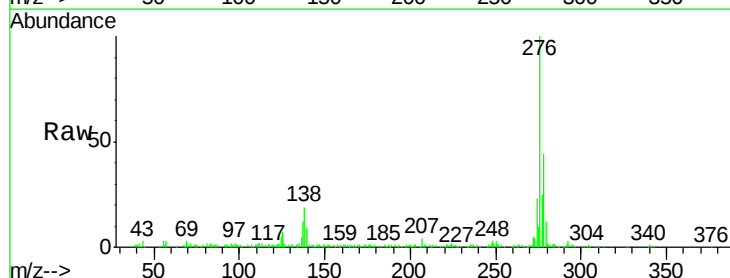
Manual Integrations
APPROVED

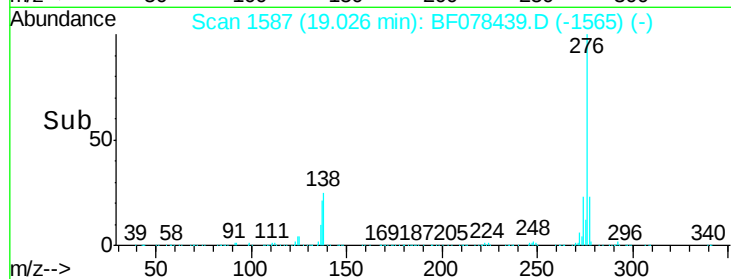
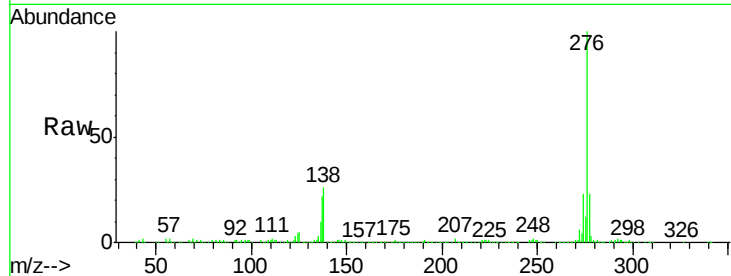
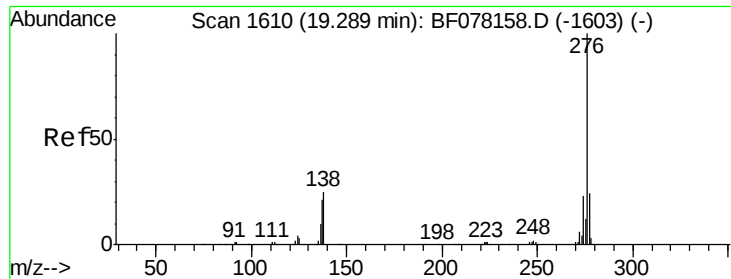
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#90
Dibenzo(a,h)anthracene
Concen: 7.35 ng
RT: 18.68 min Scan# 1557
Delta R.T. 0.13 min
Lab File: BF078439.D
Acq: 11 Apr 2015 12:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.7	13.6	20.4
279	28.0	19.0	28.6





#91

Benzo(g,h,i)perylene

Concen: 38.38 ng m

RT: 19.03 min Scan# 1587

Delta R.T. 0.15 min

Lab File: BF078439.D

Acq: 11 Apr 2015 12:44

Instrument :

BNA_F

ClientSampleId :

SB-10D

Tgt Ion:	276	Resp:	344012
Ion Ratio	Lower	Upper	
276	100		
277	23.4	19.0	28.4
138	25.7	19.9	29.9

Manual Integrations
APPROVED

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