

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088172.D
 Acq On : 22 Oct 2014 9:09
 Operator : TP/JJ
 Sample : F4303-09DL 25X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS09-1014

Manual Integrations
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 10/22/2014 1:56:13 PM

Quant Time: Oct 22 11:21:34 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	23403	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	94481	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	48608	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	88216	5.00	ng	0.00
16) Chrysene-d12	18.39	240	47483	5.00	ng	0.00
22) Perylene-d12	21.44	264	45964	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	26431	3.88	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	74875	5.58	ng	0.00
18) Terphenyl-d14	16.15	244	56188	7.35	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	6203	0.32	ng	99
6) 2-Methylnaphthalene	9.58	142	1687	0.14	ng	97
9) Acenaphthylene	10.67	152	3469	0.05	ng	# 76
10) Acenaphthene	10.88	154	6853	0.60	ng	98
11) Fluorene	11.55	166	7631	0.63	ng	99
13) Phenanthrene	13.01	178	431243	6.71	ng	95
14) Anthracene	13.09	178	110034m	1.60	ng	
15) Fluoranthene	15.25	202	130065	7.75	ng	100
17) Pyrene	15.71	202	106336m	8.24	ng	
19) Benzo(a)anthracene	18.36	228	174486	4.13	ng	98
20) Chrysene	18.44	228	176149	4.25	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	100190	2.18	ng	# 89
23) Benzo(b)fluoranthene	20.69	252	49142	4.49	ng	99
24) Benzo(k)fluoranthene	20.74	252	20554	1.75	ng	98
25) Benzo(a)pyrene	21.33	252	36268	3.60	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	4750	0.48	ng	# 95
27) Benzo(g,h,i)perylene	24.27	276	98950	2.27	ng	98

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

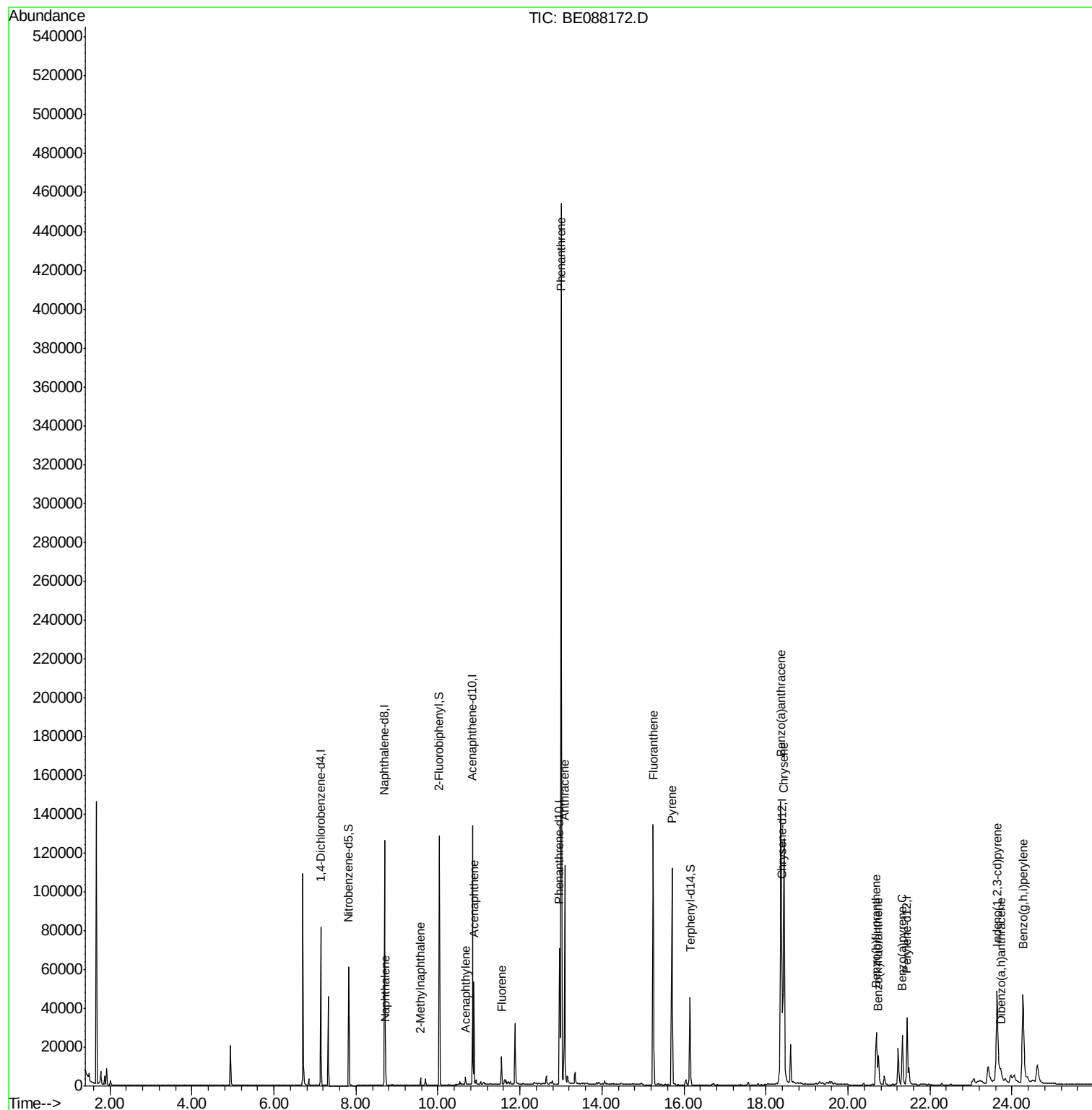
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
Data File : BE088172.D
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Operator : TP/JJ
Sample : F4303-09DL 25X
Misc :
ALS Vial : 30 Sample Multiplier: 1

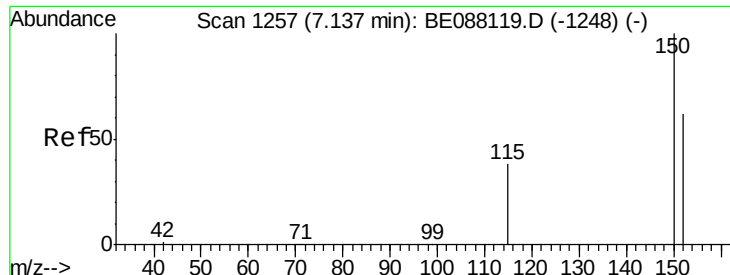
Instrument :
BNA_E
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YS19-SS09-1014

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Quant Time: Oct 22 11:21:34 2014
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:11:14 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088172.D

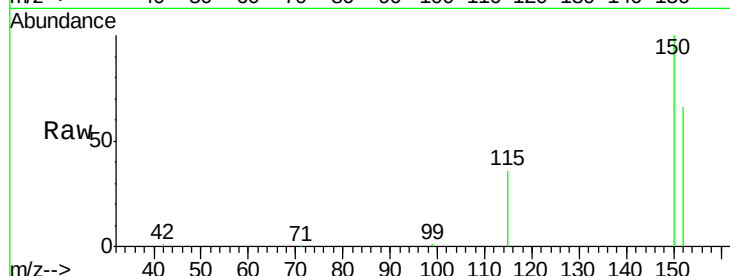
Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 23403

Ion Ratio Lower Upper

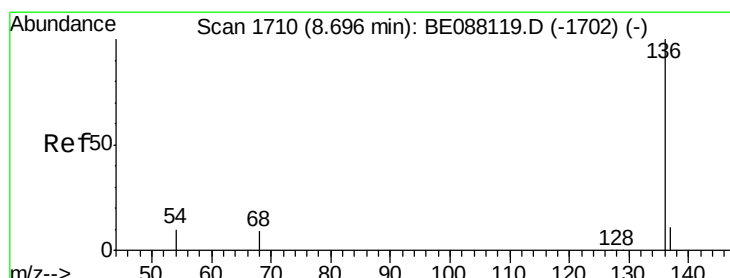
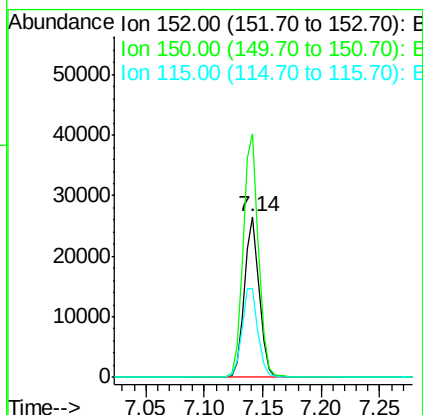
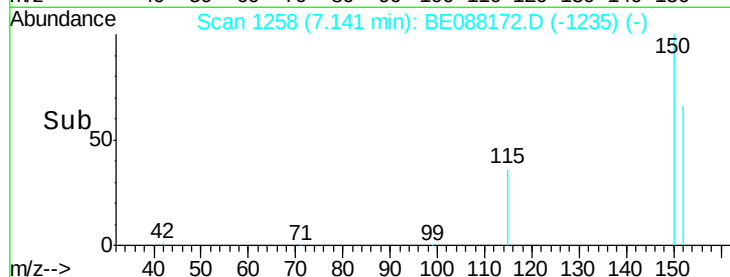
152 100

150 151.6 129.2 193.8

115 54.9 49.3 73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

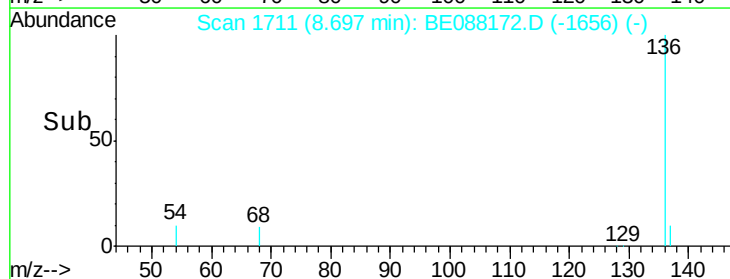
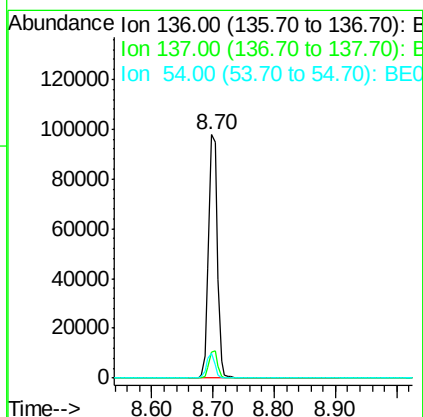
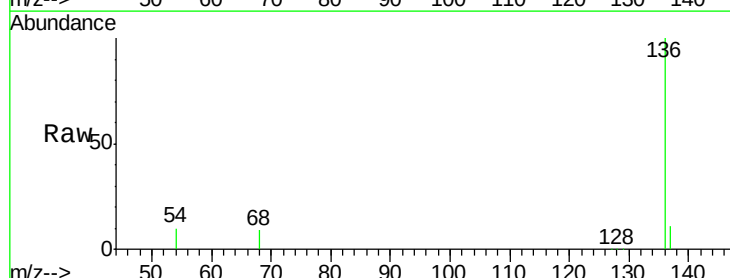
Tgt Ion:136 Resp: 94481

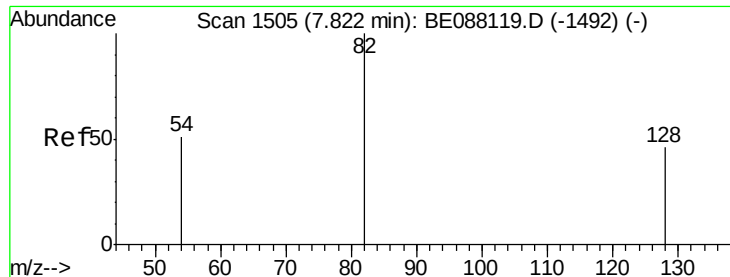
Ion Ratio Lower Upper

136 100

137 10.5 8.6 12.8

54 10.0 7.7 11.5





#4

Nitrobenzene-d5

Concen: 3.88 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088172.D

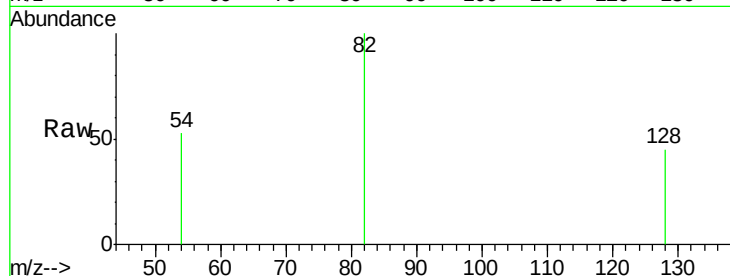
Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

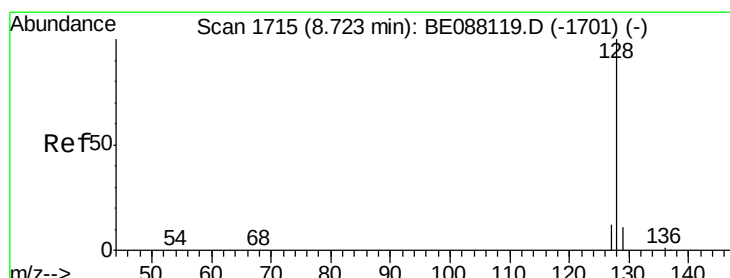
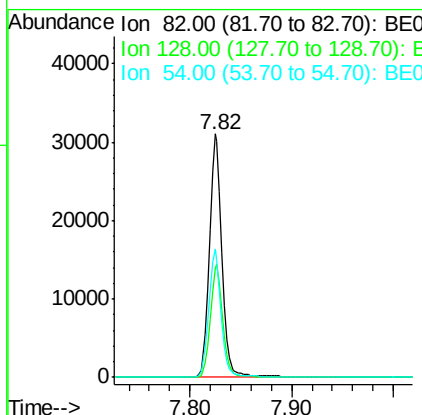
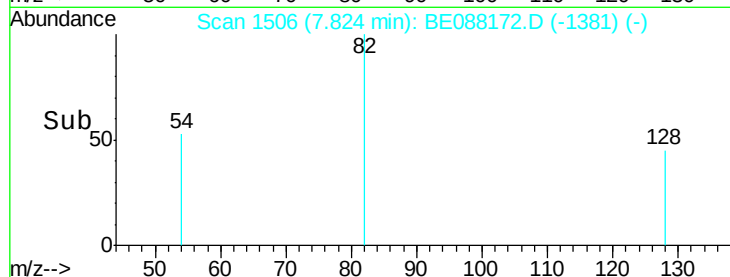
YS19-SS09-1014



Tgt Ion:	82	Resp:	26431
Ion Ratio	Lower	Upper	
82	100		
128	44.6	37.1	55.7
54	52.8	41.1	61.7

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#5

Naphthalene

Concen: 0.32 ng

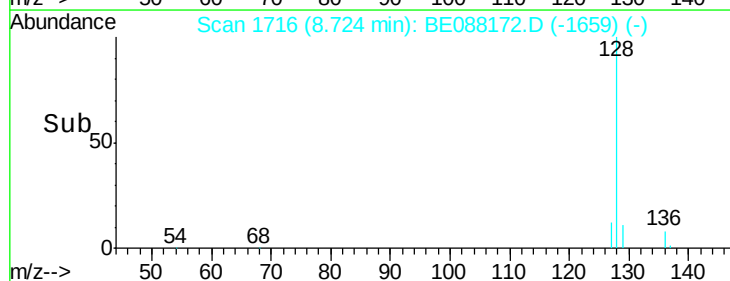
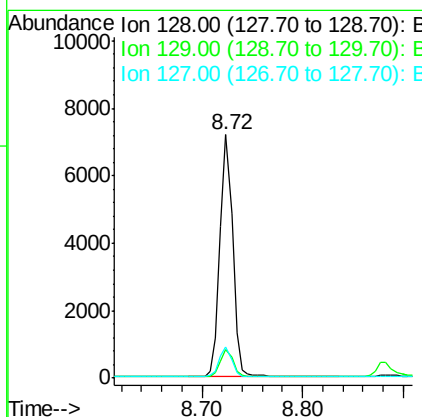
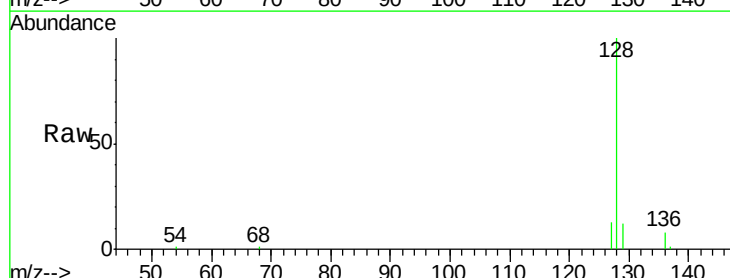
RT: 8.72 min Scan# 1716

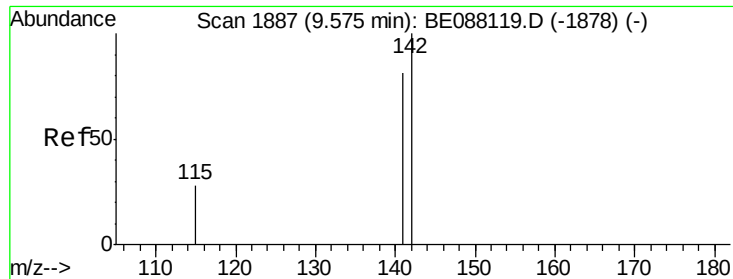
Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Tgt Ion:	128	Resp:	6203
Ion Ratio	Lower	Upper	
128	100		
129	11.7	8.9	13.3
127	12.7	9.7	14.5





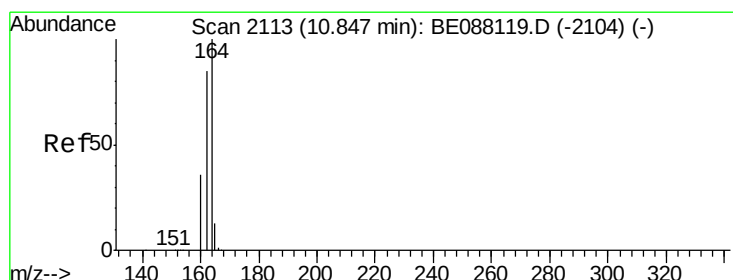
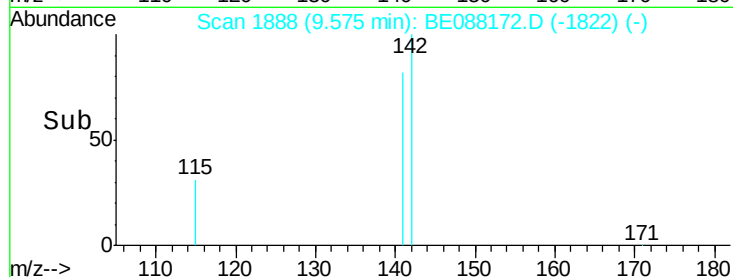
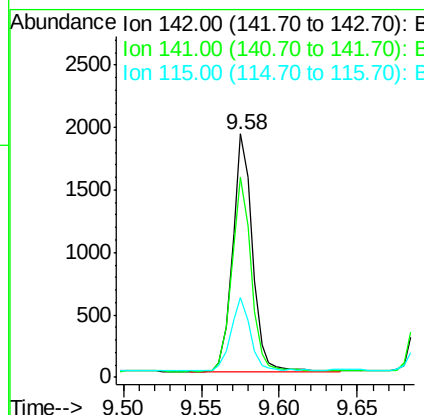
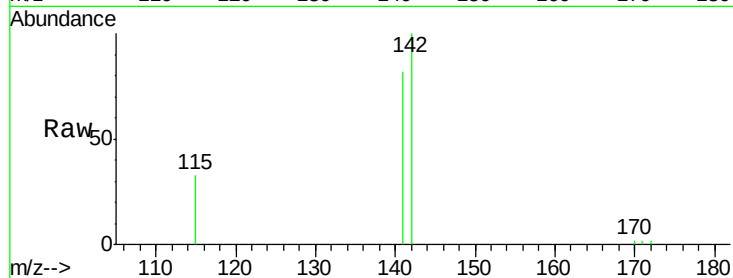
#6
2-Methylnaphthalene
Concen: 0.14 ng
RT: 9.58 min Scan# 1888
Delta R.T. 0.00 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

Instrument :
BNA_E
ClientSampleId :
YS19-SS09-1014

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.2	64.6	97.0
115	32.7	22.6	34.0

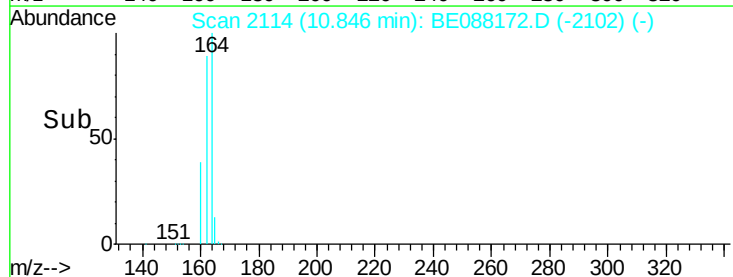
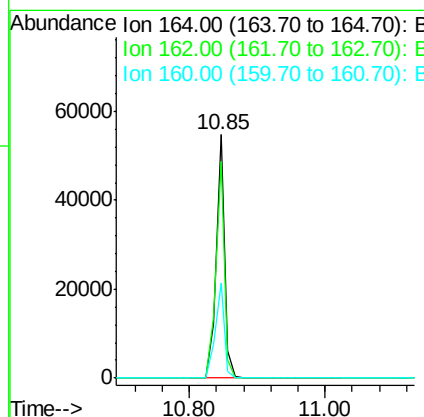
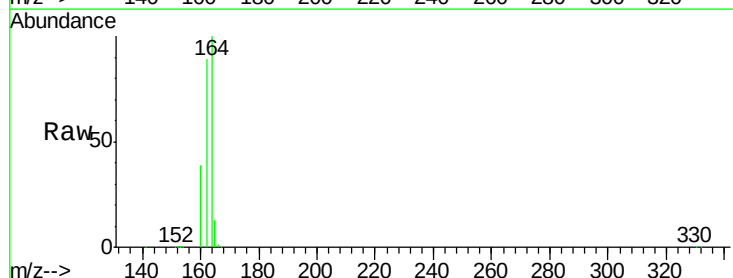
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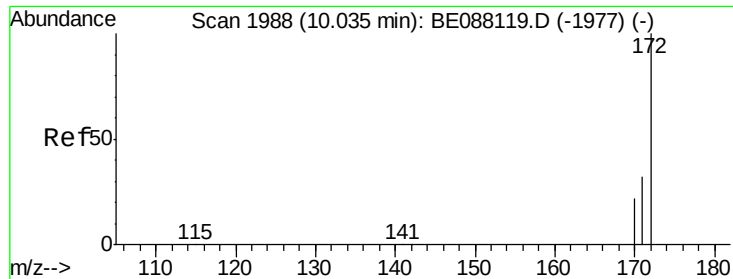
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#7
Acenaphthene-d10
Concen: 5.00 ng
RT: 10.85 min Scan# 2114
Delta R.T. -0.00 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

Tgt Ion	Ratio	Lower	Upper
164	100		
162	89.0	68.3	102.5
160	39.1	28.7	43.1





#8

2-Fluorobiphenyl

Concen: 5.58 ng

RT: 10.03 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

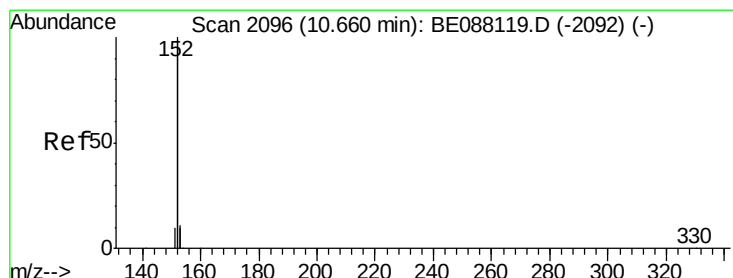
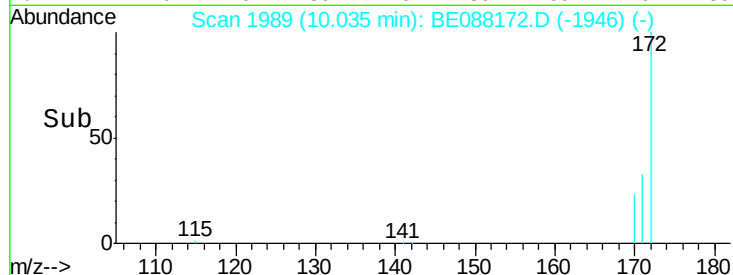
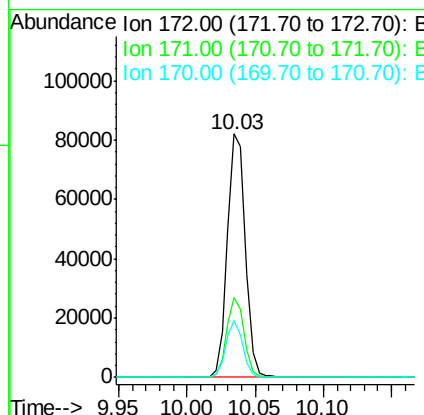
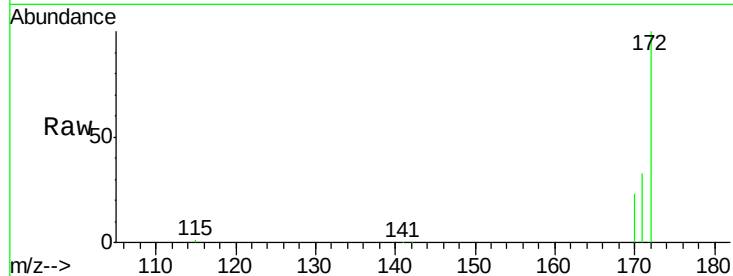
ClientSampleId :

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Tgt Ion:	172	Resp:	74875
Ion Ratio	Lower	Upper	
172	100		
171	33.0	25.4	38.2
170	23.3	17.4	26.2

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#9

Acenaphthylene

Concen: 0.05 ng

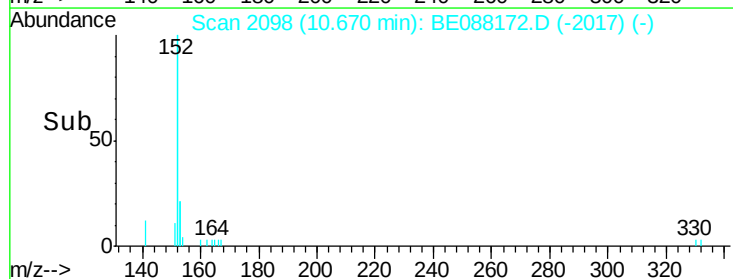
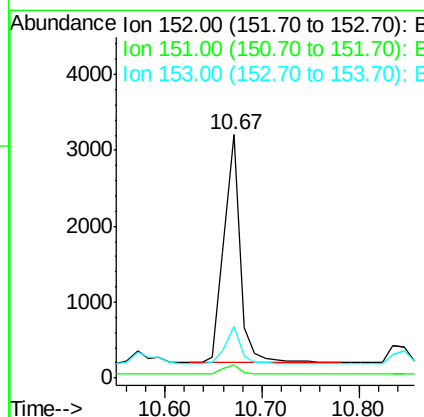
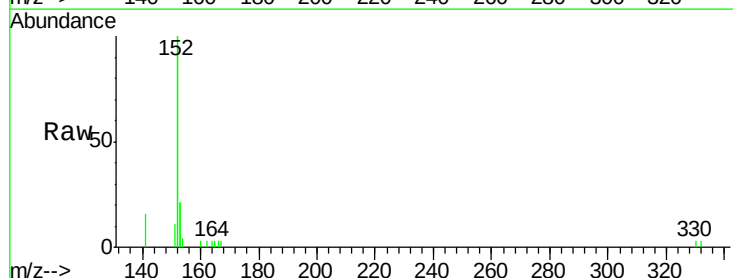
RT: 10.67 min Scan# 2098

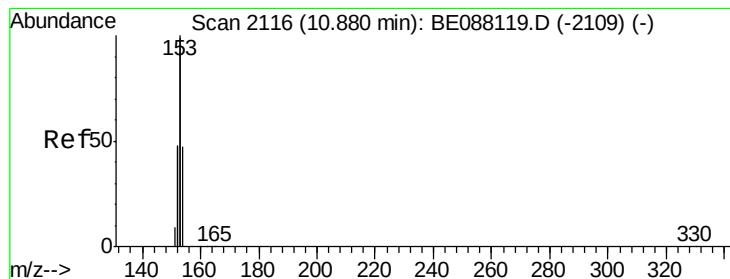
Delta R.T. 0.01 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Tgt Ion:	152	Resp:	3469
Ion Ratio	Lower	Upper	
152	100		
151	4.6	3.7	5.5
153	0.0	10.4	15.6#





#10

Acenaphthene

Concen: 0.60 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

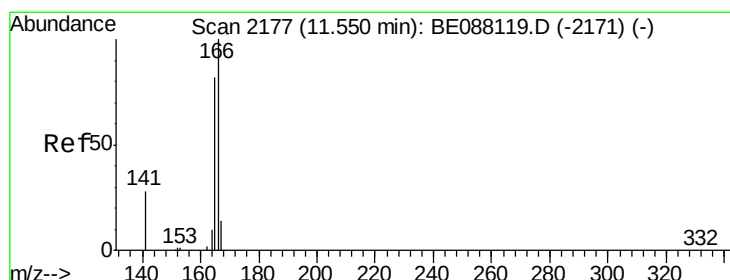
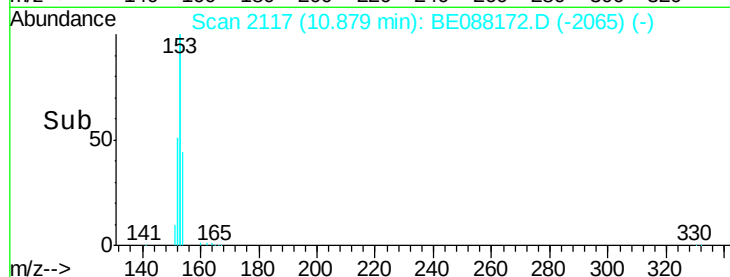
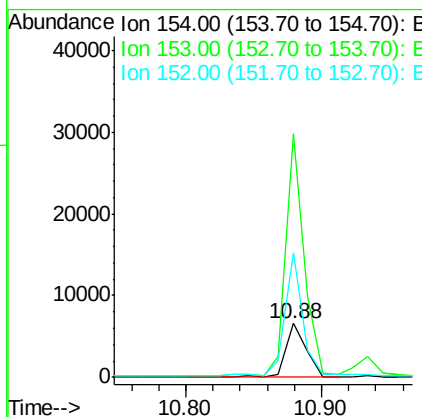
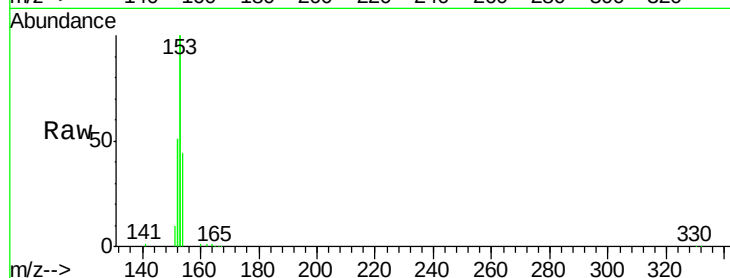
ClientSampleId :

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Tgt Ion:	154	Resp:	6853
Ion Ratio	Lower	Upper	
154	100		
153	408.9	327.8	491.6
152	203.8	157.6	236.4



#11

Fluorene

Concen: 0.63 ng

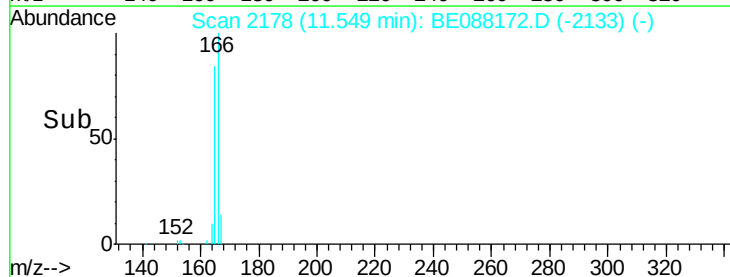
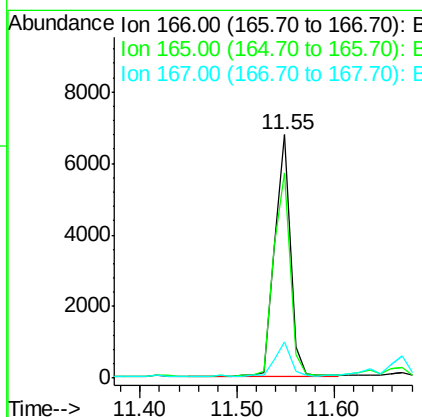
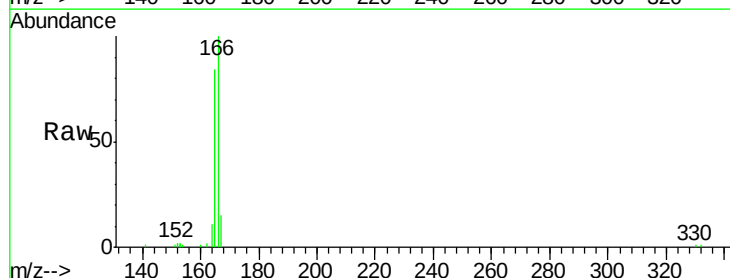
RT: 11.55 min Scan# 2178

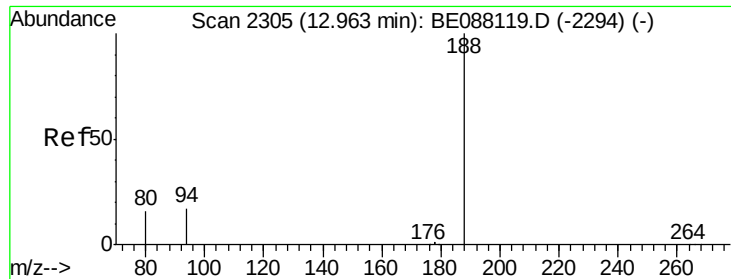
Delta R.T. -0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Tgt Ion:	166	Resp:	7631
Ion Ratio	Lower	Upper	
166	100		
165	89.8	71.4	107.2
167	14.2	10.6	16.0





#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.01 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

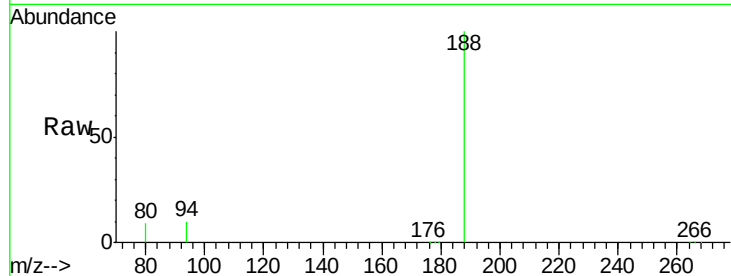
ClientSampleId :

YS19-SS09-1014

Tgt Ion:	188	Resp:	88216
Ion Ratio	Lower	Upper	
188	100		
94	10.4	13.9	20.9#
80	9.1	12.9	19.3#

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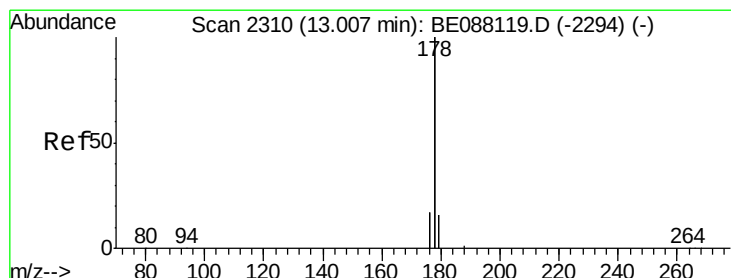
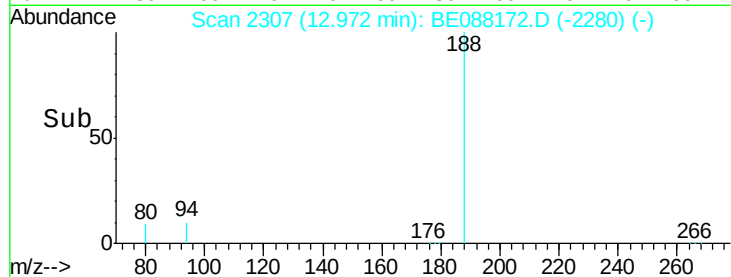
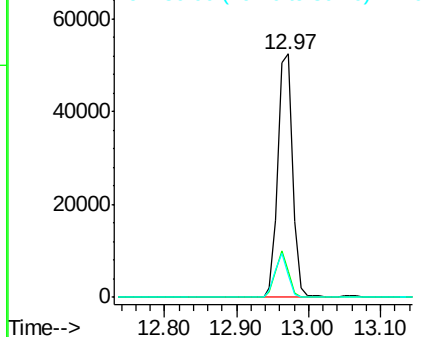
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#13

Phenanthrene

Concen: 6.71 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088172.D

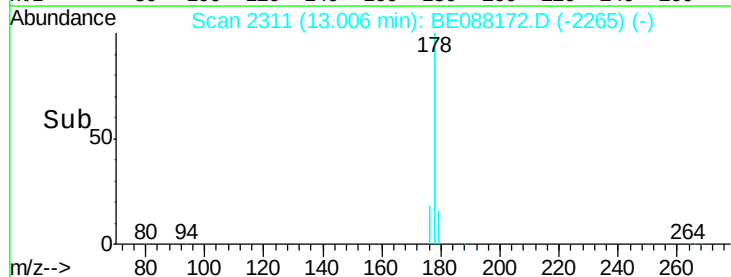
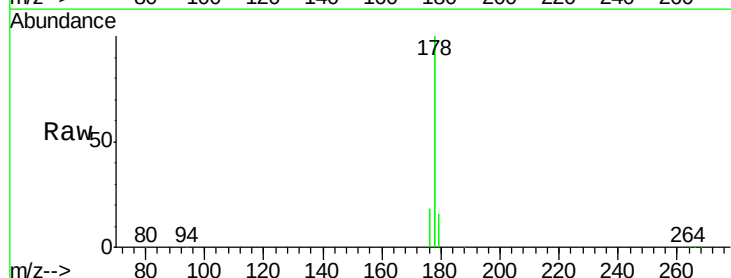
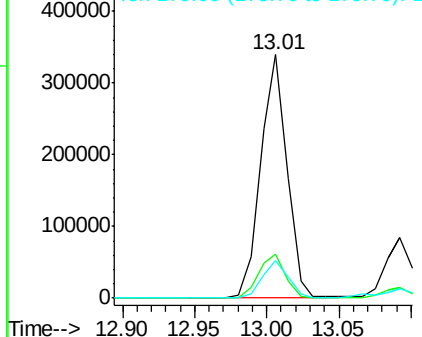
Acq: 22 Oct 2014 9:09

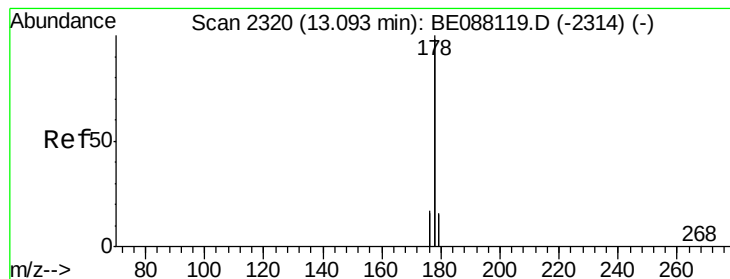
Tgt Ion:	178	Resp:	431243
Ion Ratio	Lower	Upper	
178	100		
176	18.5	12.5	18.7
179	15.4	13.5	20.3

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 1.60 ng m

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

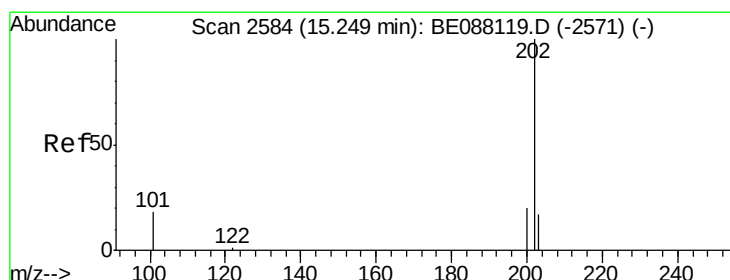
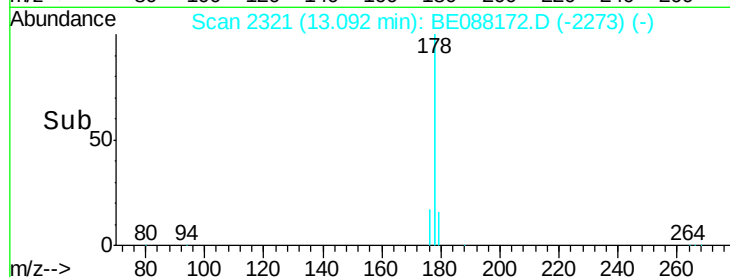
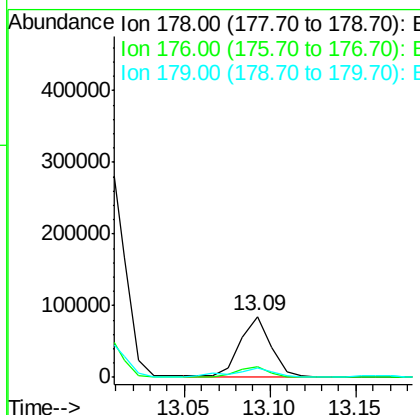
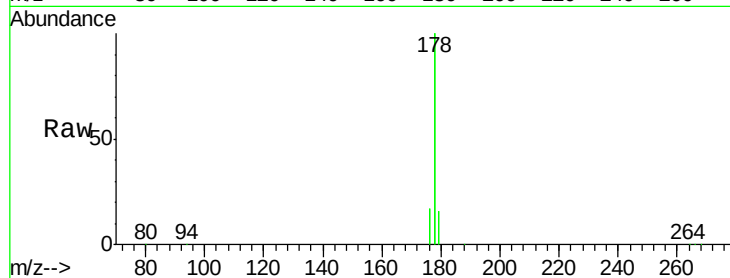
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
178	100		
176	72.7	14.6	21.8#
179	60.2	12.5	18.7#



#15

Fluoranthene

Concen: 7.75 ng

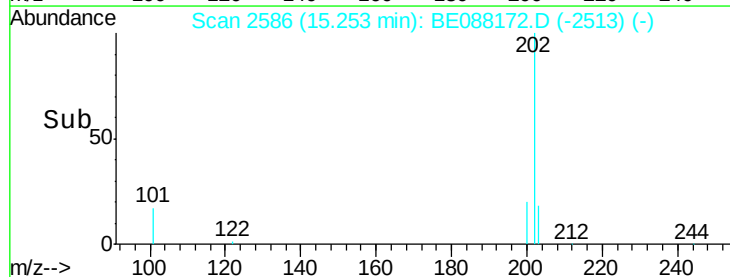
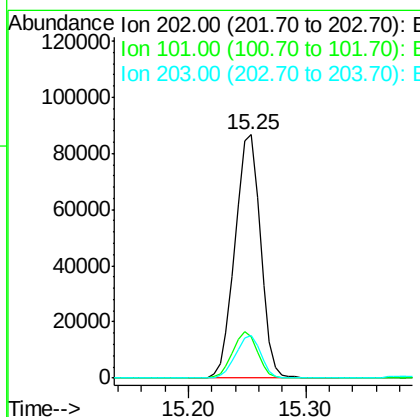
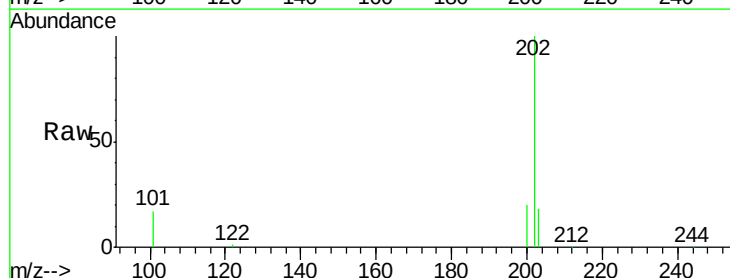
RT: 15.25 min Scan# 2586

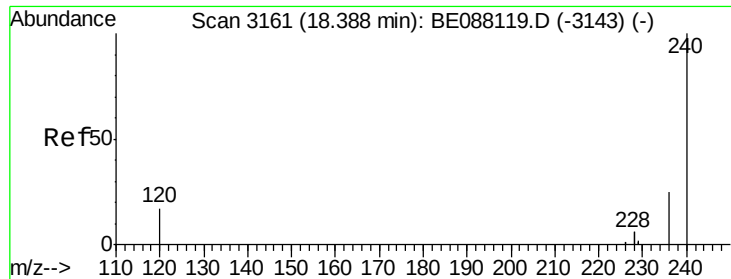
Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.5	14.8	22.2
203	17.3	13.5	20.3





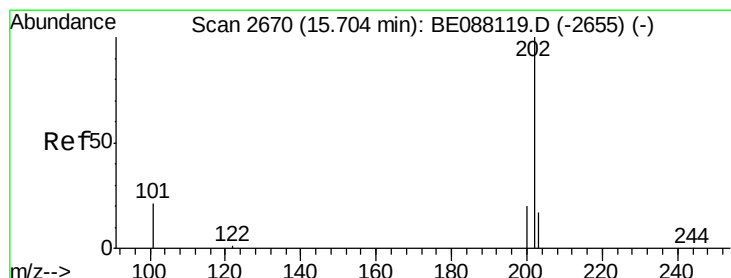
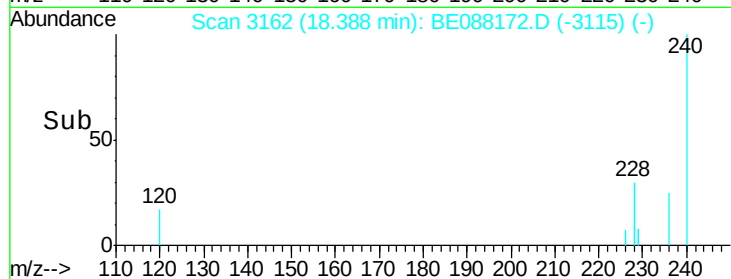
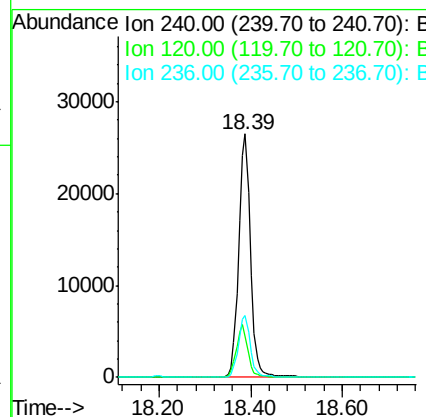
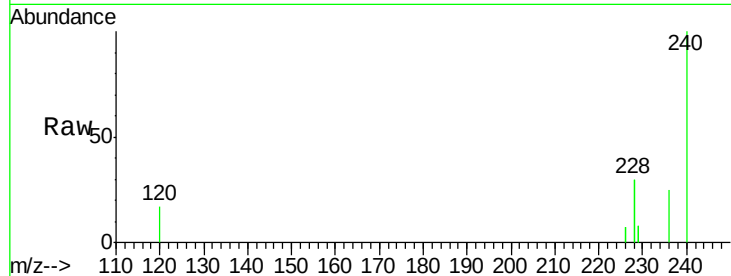
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.39 min Scan# 3162
Delta R.T. 0.00 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

Instrument :
BNA_E
ClientSampleId :
YS19-SS09-1014

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	47483		
120	17.1	13.9	20.9	
236	25.2	19.9	29.9	

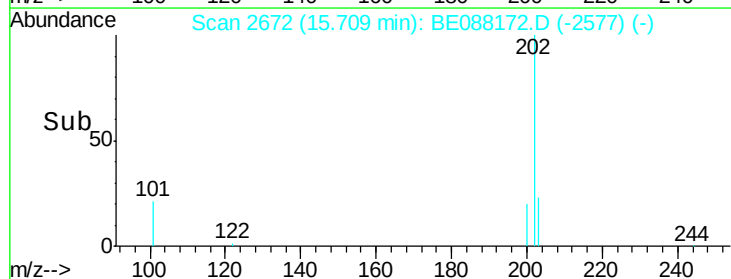
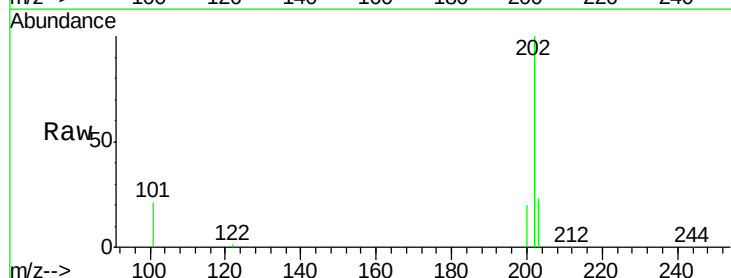
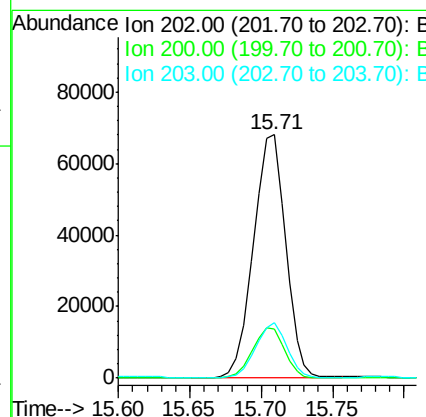
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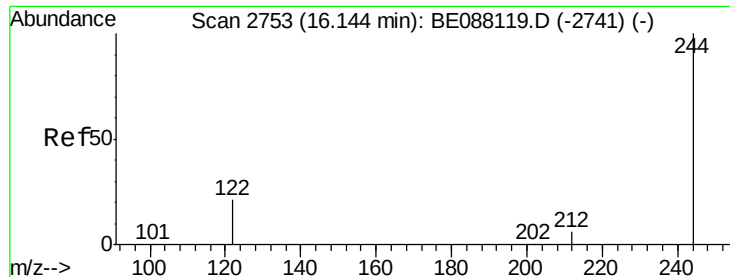
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#17
Pyrene
Concen: 8.24 ng m
RT: 15.71 min Scan# 2672
Delta R.T. 0.00 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	106336		
200	24.4	16.1	24.1#	
203	21.0	13.9	20.9#	





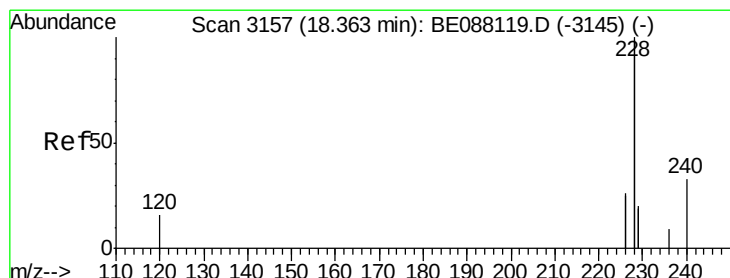
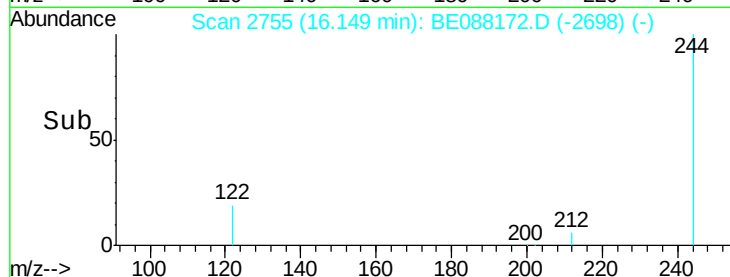
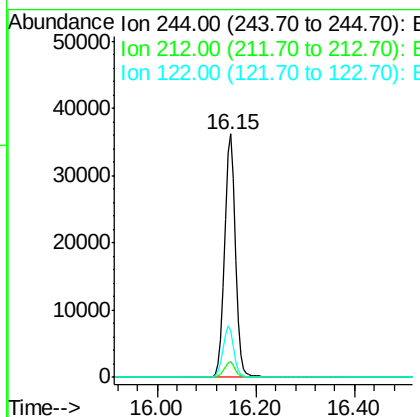
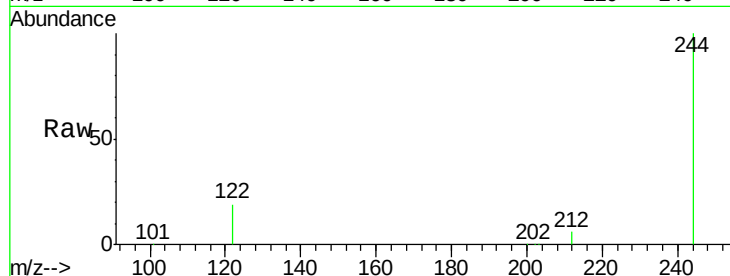
#18
 Terphenyl-d14
 Concen: 7.35 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088172.D
 Acq: 22 Oct 2014 9:09

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS09-1014

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.4	5.4	8.0
122	18.9	17.5	26.3

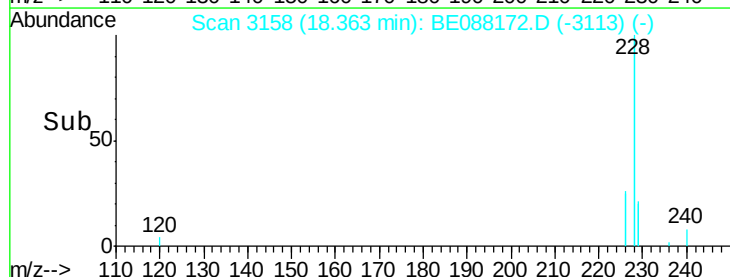
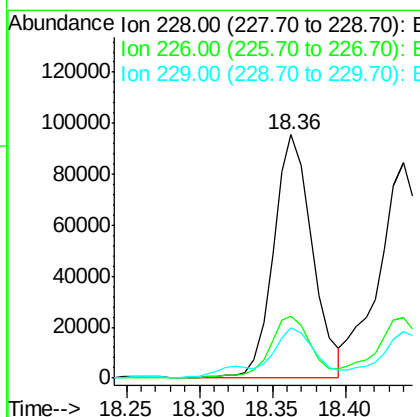
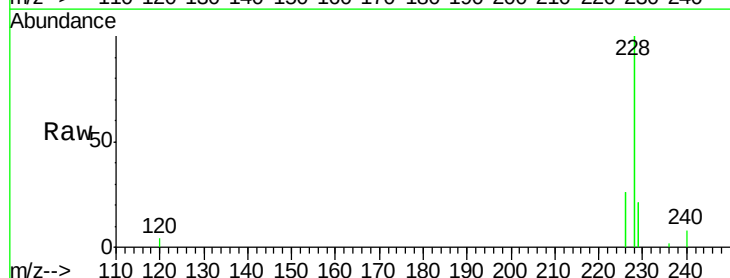
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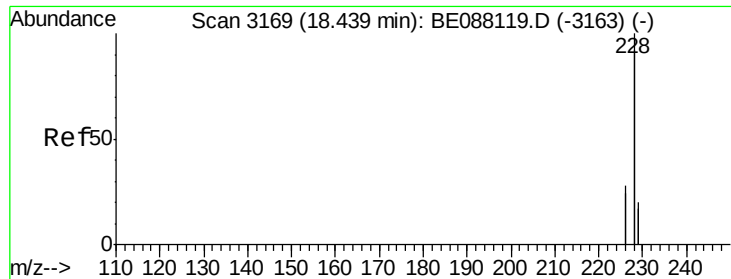
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#19
 Benzo(a)anthracene
 Concen: 4.13 ng
 RT: 18.36 min Scan# 3158
 Delta R.T. 0.00 min
 Lab File: BE088172.D
 Acq: 22 Oct 2014 9:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	25.6	20.8	31.2
229	20.6	15.6	23.4





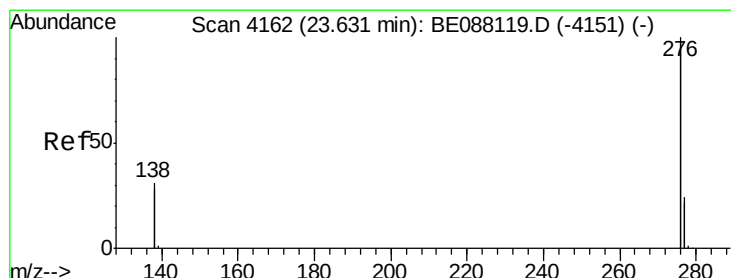
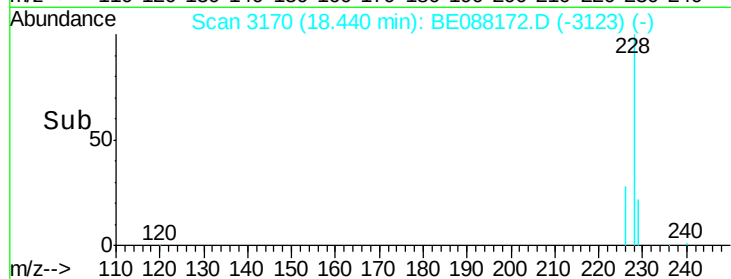
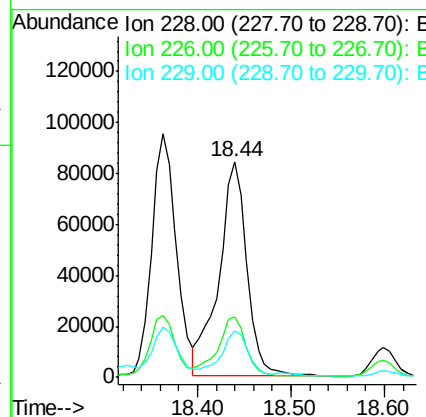
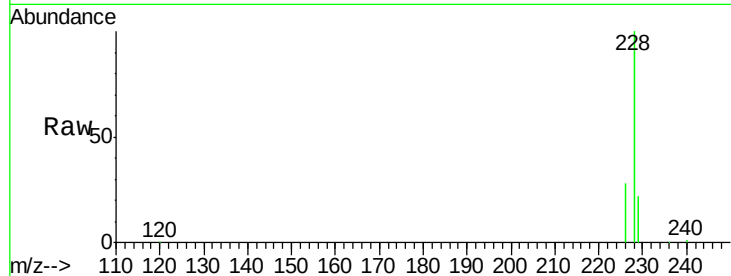
#20
Chrysene
Concen: 4.25 ng
RT: 18.44 min Scan# 3170
Delta R.T. 0.00 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

Instrument :
BNA_E
ClientSampleId :
YS19-SS09-1014

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.7	34.1
229	21.7	15.8	23.6

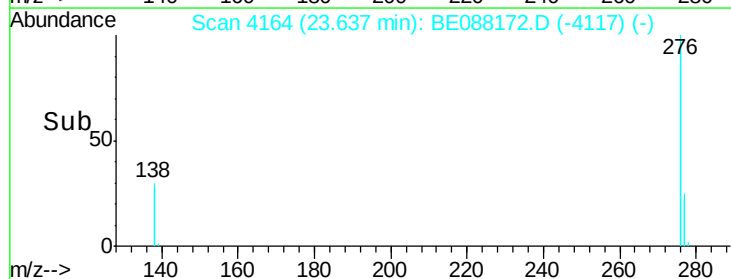
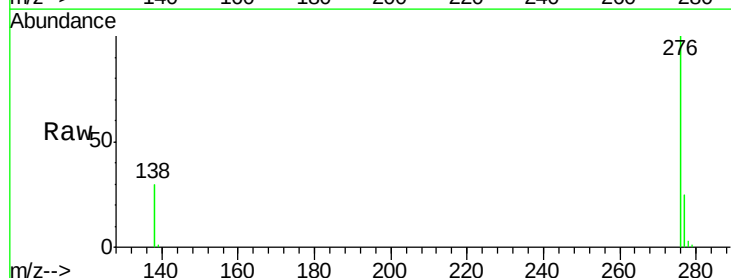
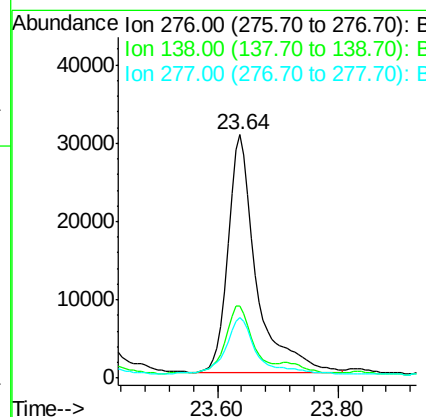
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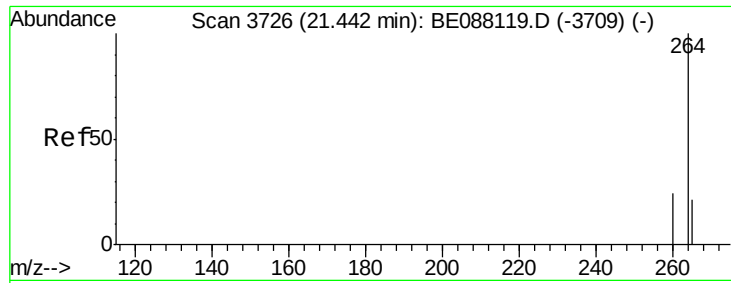
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#21
Indeno(1,2,3-cd)pyrene
Concen: 2.18 ng
RT: 23.64 min Scan# 4164
Delta R.T. 0.01 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.7	18.5	27.7
277	25.6	14.6	21.8





#22

Perylene-d12

Concen: 5.00 ng

RT: 21.44 min Scan# 3727

Delta R.T. -0.00 min

Lab File: BE088172.D

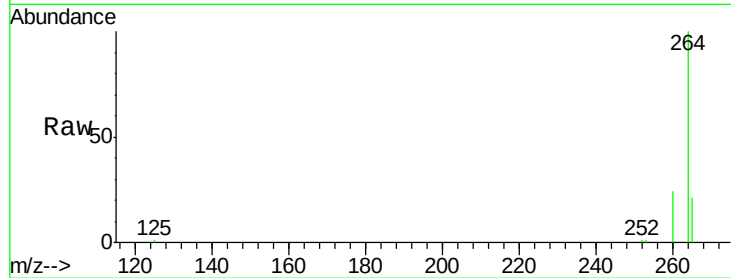
Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

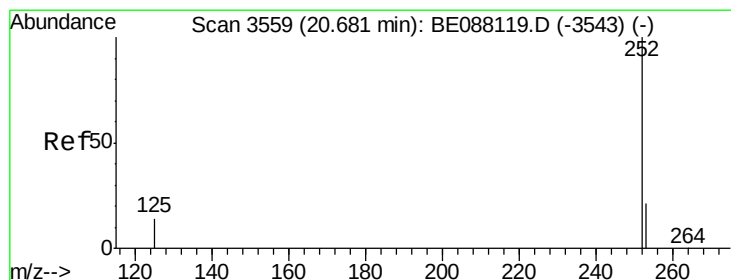
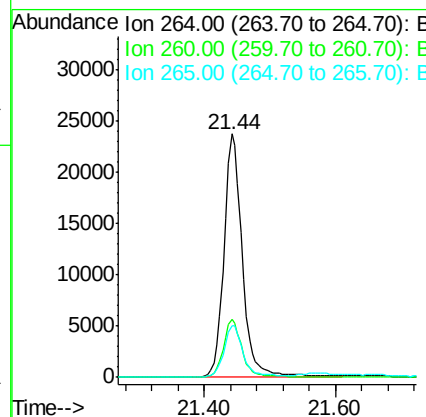
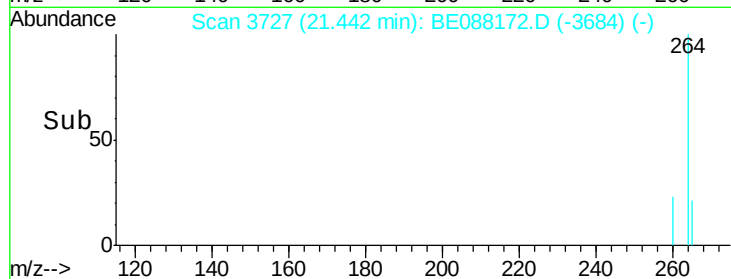
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Tgt Ion:	264	Resp:	45964
Ion Ratio	Lower	Upper	
264	100		
260	23.7	19.0	28.4
265	21.4	17.2	25.8

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#23

Benzo(b)fluoranthene

Concen: 4.49 ng

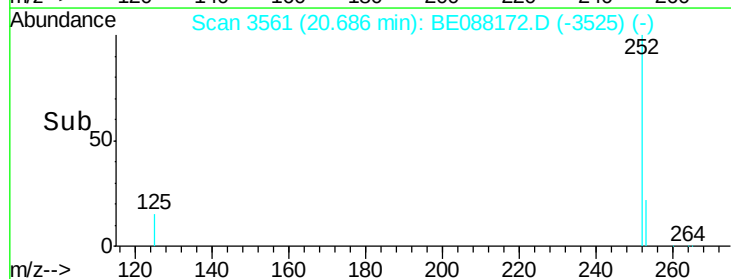
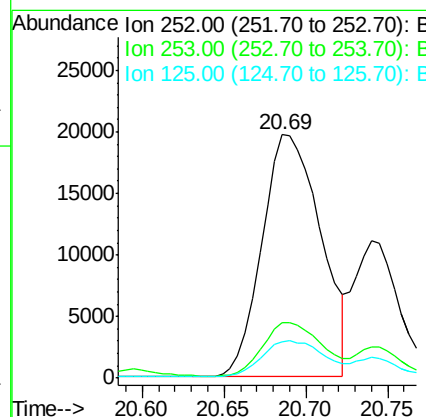
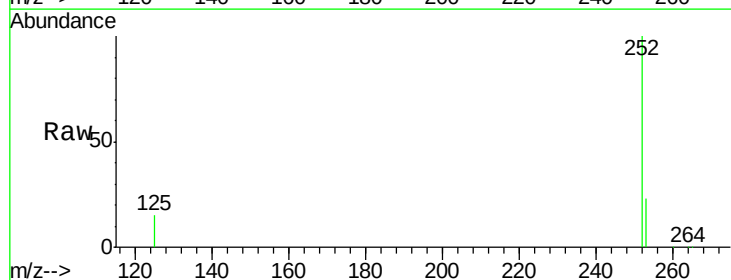
RT: 20.69 min Scan# 3561

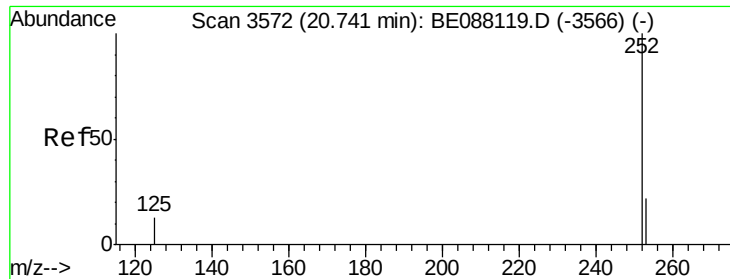
Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

Tgt Ion:	252	Resp:	49142
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.4	26.0
125	15.0	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 1.75 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088172.D

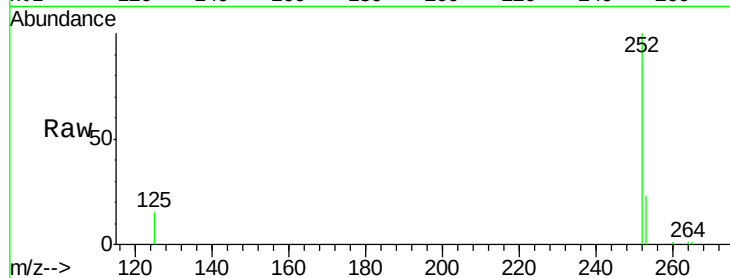
Acq: 22 Oct 2014 9:09

Instrument :

BNA_E

ClientSampleId :

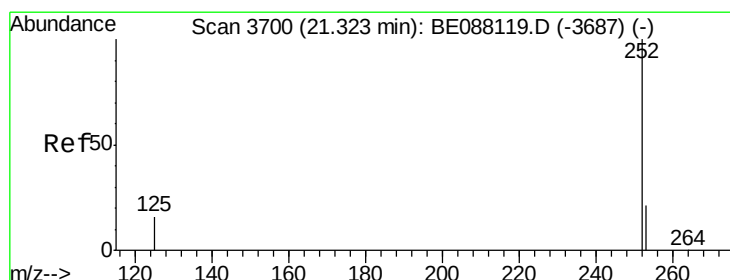
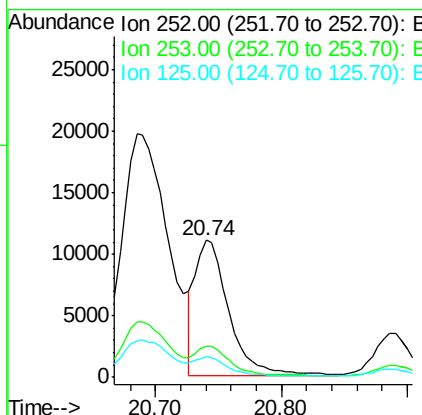
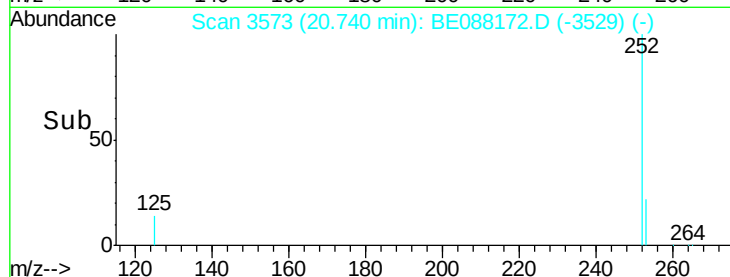
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Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	15.1	11.5	17.3

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#25

Benzo(a)pyrene

Concen: 3.60 ng

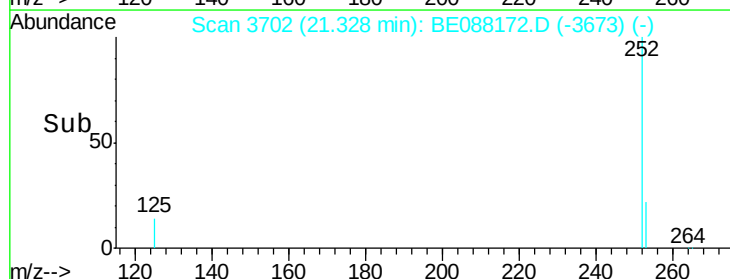
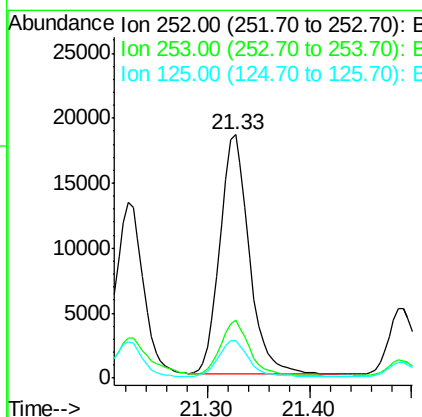
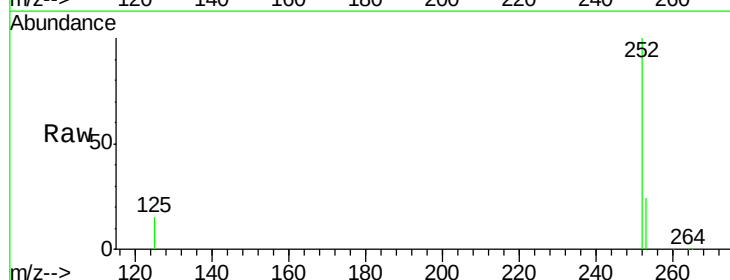
RT: 21.33 min Scan# 3702

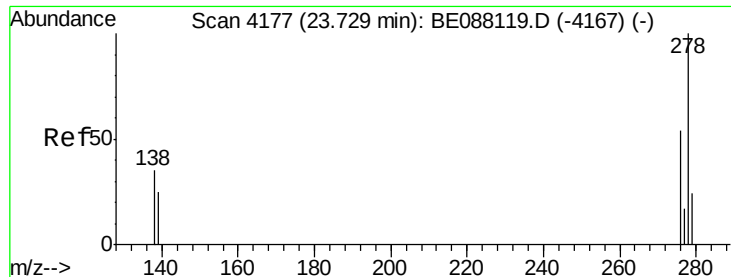
Delta R.T. 0.00 min

Lab File: BE088172.D

Acq: 22 Oct 2014 9:09

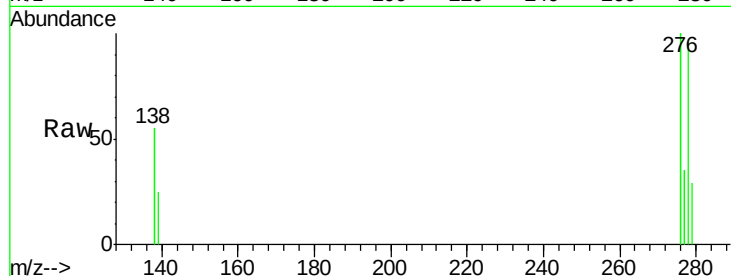
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	15.3	13.0	19.6





#26
Dibenzo(a,h)anthracene
Concen: 0.48 ng
RT: 23.73 min Scan# 4178
Delta R.T. -0.00 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

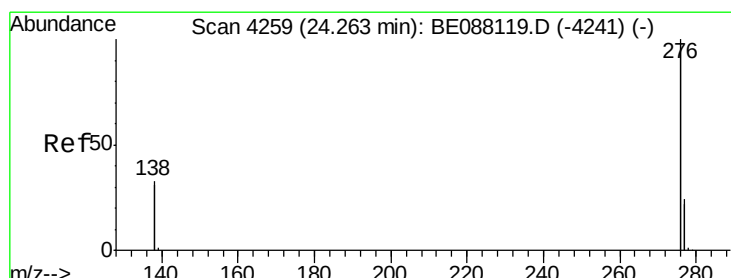
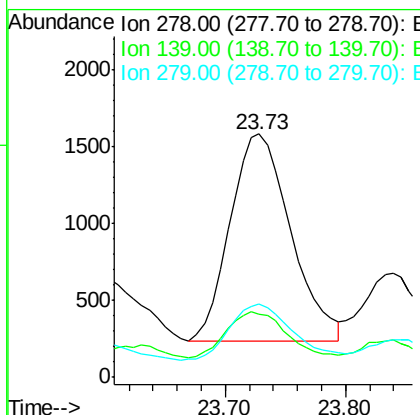
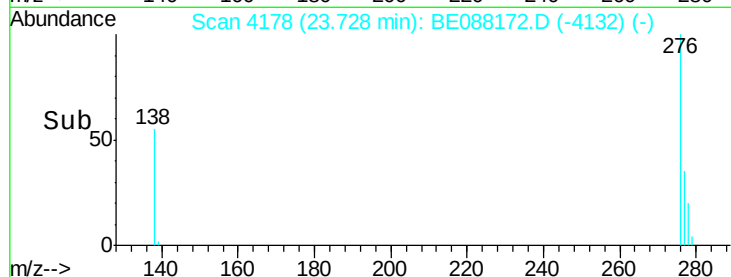
Instrument :
BNA_E
ClientSampleId :
YS19-SS09-1014



Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.2	20.9	31.3
279	30.3	19.8	29.8

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#27
Benzo(g,h,i)perylene
Concen: 2.27 ng
RT: 24.27 min Scan# 4261
Delta R.T. 0.01 min
Lab File: BE088172.D
Acq: 22 Oct 2014 9:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.2	28.8
138	32.2	26.6	40.0

