

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088233.D
 Acq On : 25 Oct 2014 5:35
 Operator : TP/JJ
 Sample : F4368-22
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43-1014

Manual Integrations
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Quant Time: Oct 27 14:13:37 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	27085	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	105673	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	58811	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	127497	5.00	ng	0.00
16) Chrysene-d12	18.35	240	70885	5.00	ng	0.00
22) Perylene-d12	21.40	264	54930	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	353549	44.29	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	501498	30.58	ng	0.00
18) Terphenyl-d14	16.13	244	481047	41.44	ng	0.03
Target Compounds						Qvalue
6) 2-Methylnaphthalene	9.55	142	596	0.05	ng	95
9) Acenaphthylene	10.64	152	6231	0.07	ng	# 95
10) Acenaphthene	10.86	154	976	0.07	ng	96
11) Fluorene	11.52	166	1310	0.09	ng	99
13) Phenanthrene	12.96	178	9081m	0.07	ng	
14) Anthracene	13.06	178	8803	0.10	ng	95
15) Fluoranthene	15.21	202	1953	0.10	ng	100
17) Pyrene	15.66	202	2094	0.11	ng	100
19) Benzo(a)anthracene	18.33	228	7376	0.13	ng	# 94
20) Chrysene	18.40	228	7287	0.11	ng	94
21) Indeno(1,2,3-cd)pyrene	23.57	276	4807m	0.31	ng	
23) Benzo(b)fluoranthene	20.64	252	1375	0.28	ng	# 86
24) Benzo(k)fluoranthene	20.70	252	1775	0.13	ng	# 84
25) Benzo(a)pyrene	21.28	252	1277	0.28	ng	# 82
26) Dibenzo(a,h)anthracene	23.66	278	1025	0.30	ng	# 64
27) Benzo(g,h,i)perylene	24.20	276	5487	0.12	ng	# 81

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

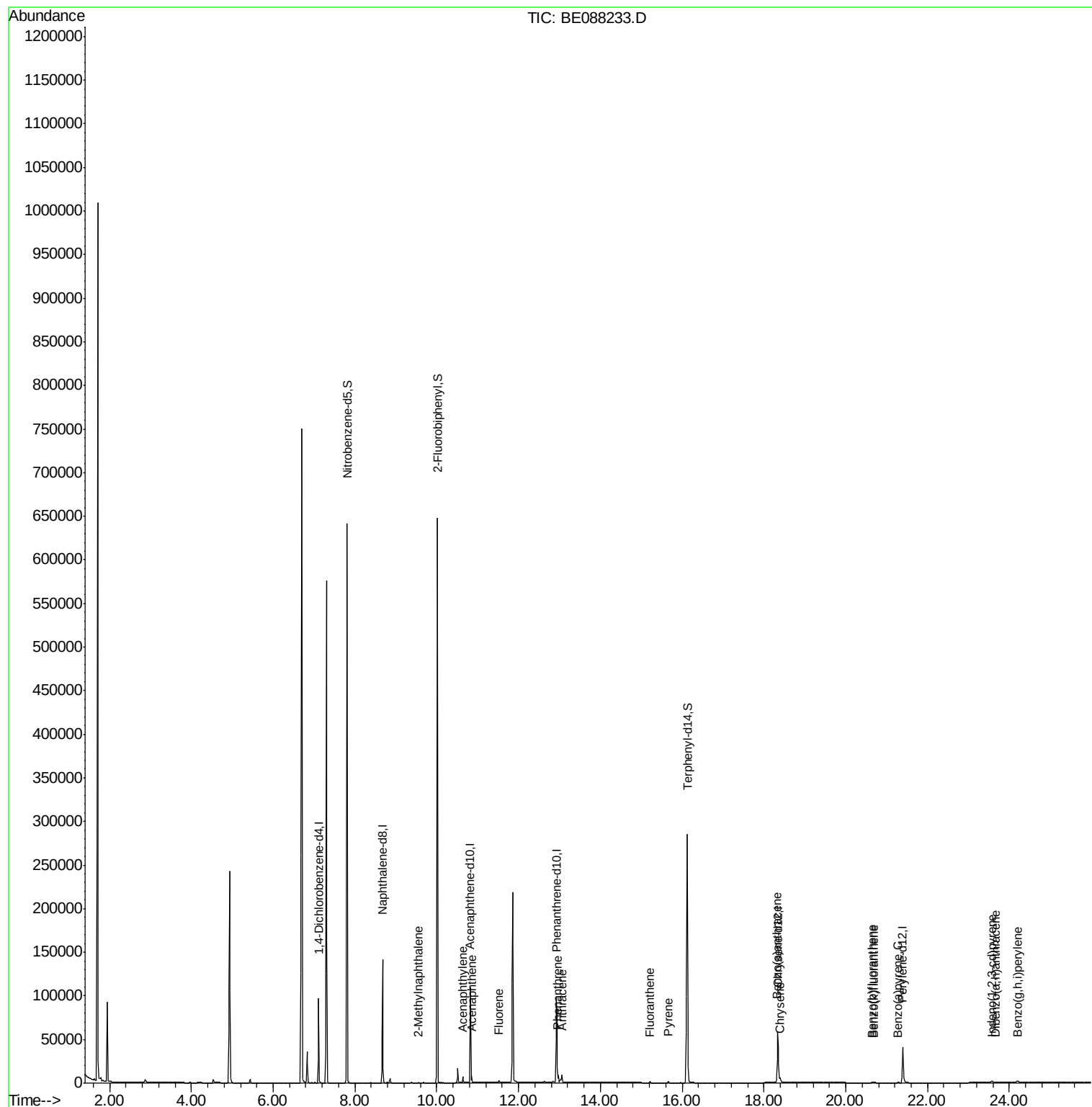
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
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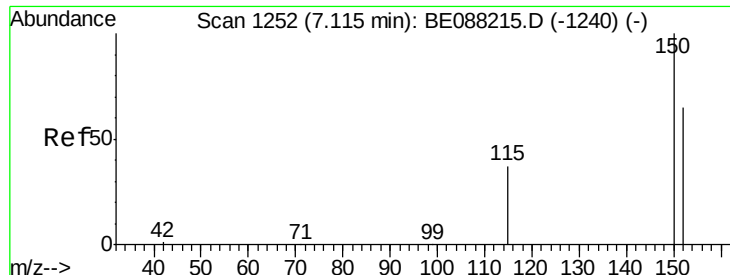
Instrument :
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YS19-SB43-1014

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088233.D

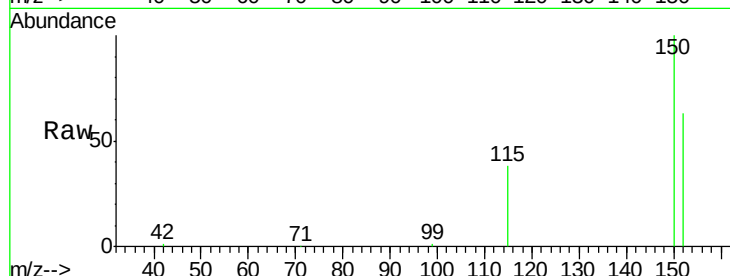
Acq: 25 Oct 2014 5:35

Instrument :

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ClientSampleId :

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Tgt Ion:152 Resp: 27085

Ion Ratio Lower Upper

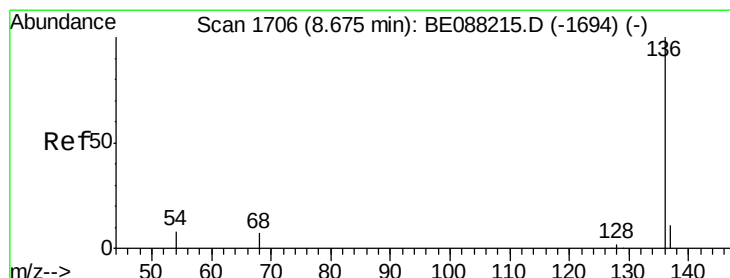
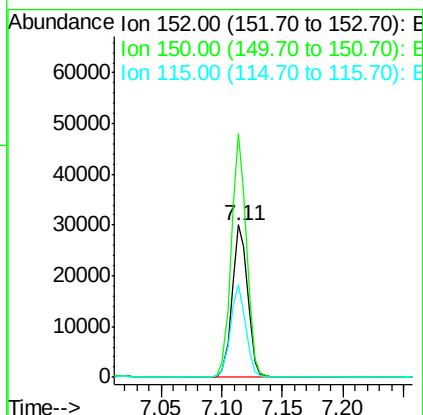
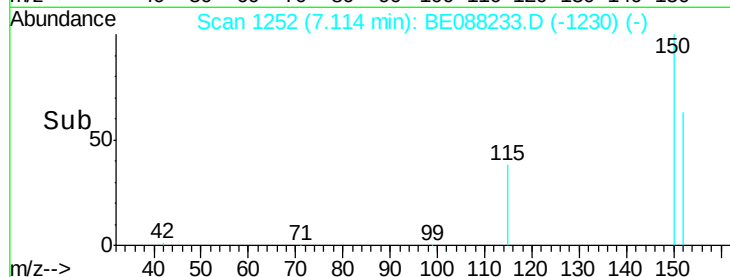
152 100

150 159.9 123.2 184.8

115 61.0 45.3 67.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

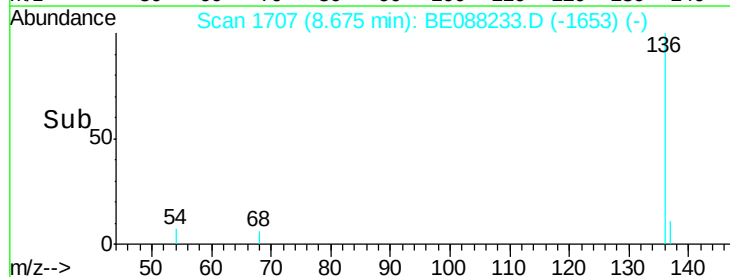
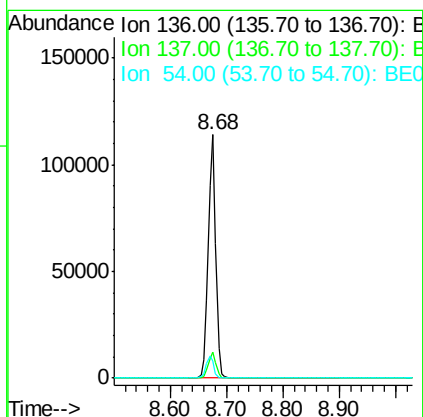
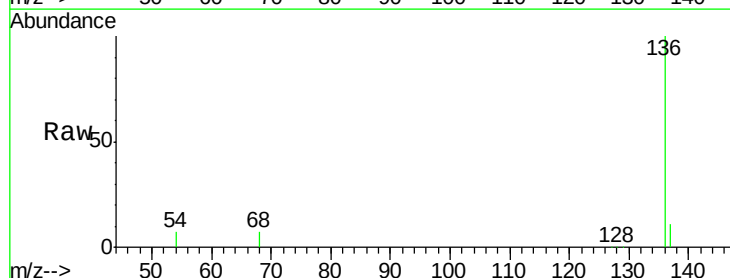
Tgt Ion:136 Resp: 105673

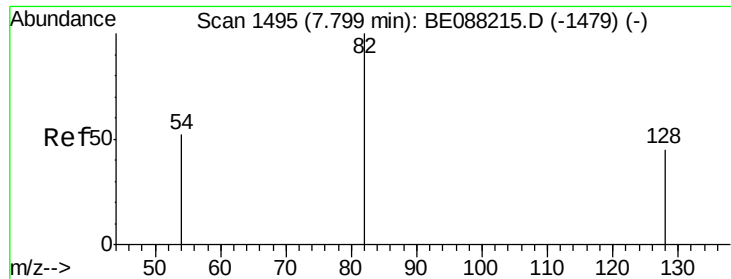
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 6.9 6.1 9.1





#4

Nitrobenzene-d5

Concen: 44.29 ng

RT: 7.81 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BE088233.D

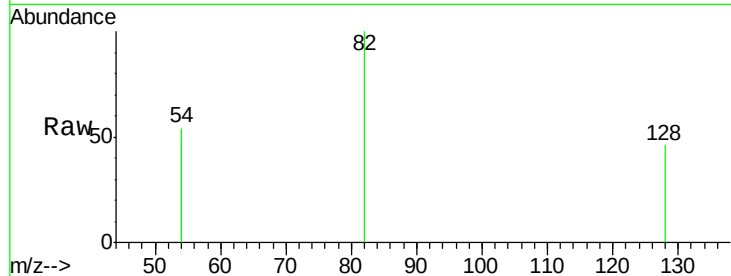
Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

YS19-SB43-1014



Tgt Ion: 82 Resp: 353549

Ion Ratio Lower Upper

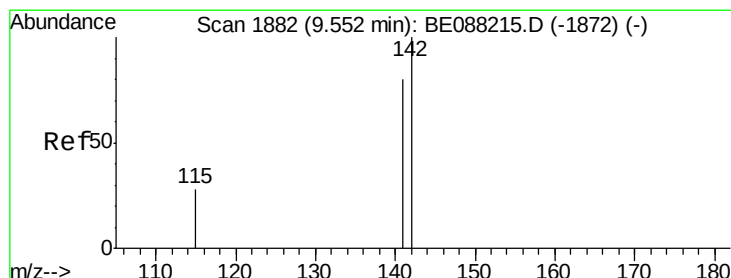
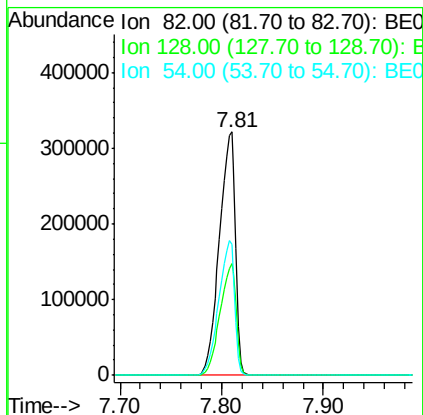
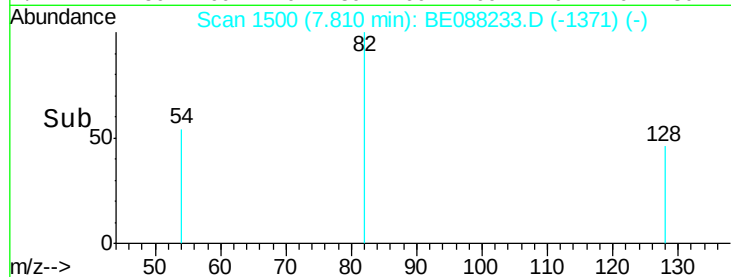
82 100

128 46.0 36.2 54.2

54 53.7 41.8 62.8

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#6

2-Methylnaphthalene

Concen: 0.05 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

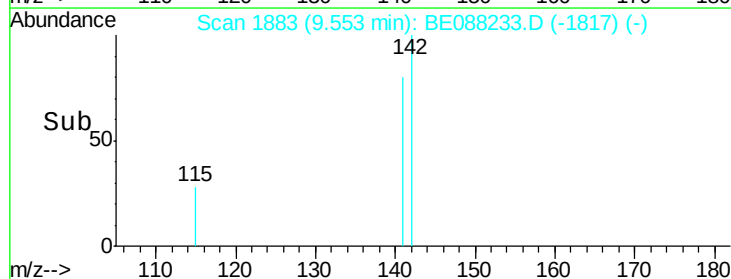
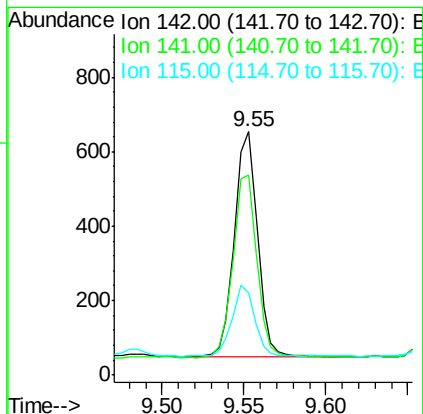
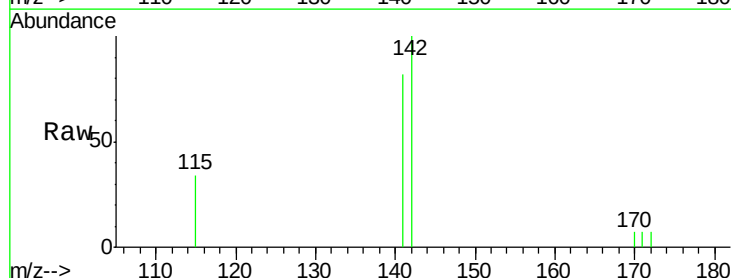
Tgt Ion: 142 Resp: 596

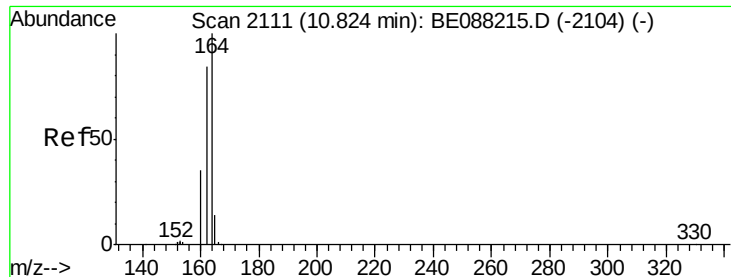
Ion Ratio Lower Upper

142 100

141 82.0 63.7 95.5

115 33.6 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088233.D

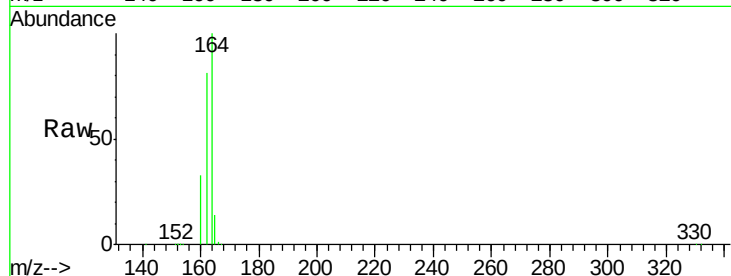
Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

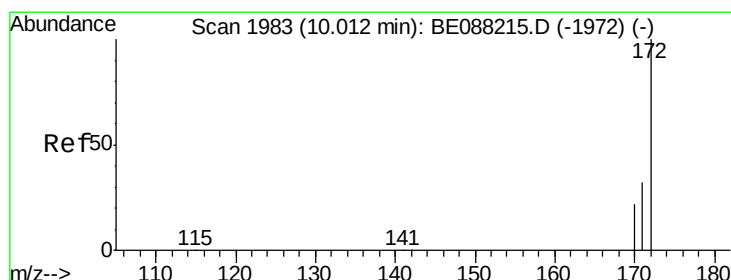
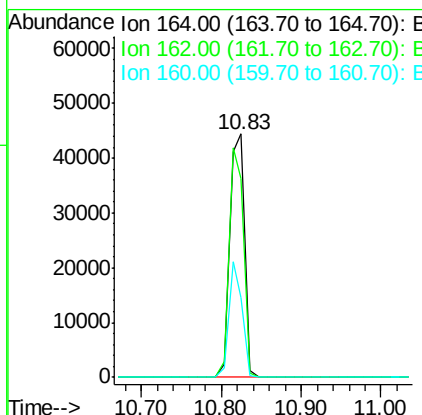
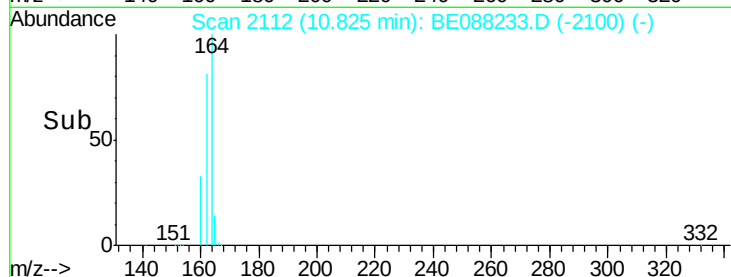
YS19-SB43-1014



Tgt Ion:	164	Resp:	58811
Ion Ratio	Lower	Upper	
164	100		
162	81.4	67.4	101.0
160	32.6	27.7	41.5

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#8

2-Fluorobiphenyl

Concen: 30.58 ng

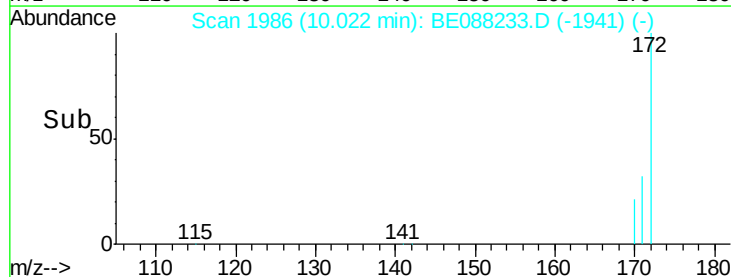
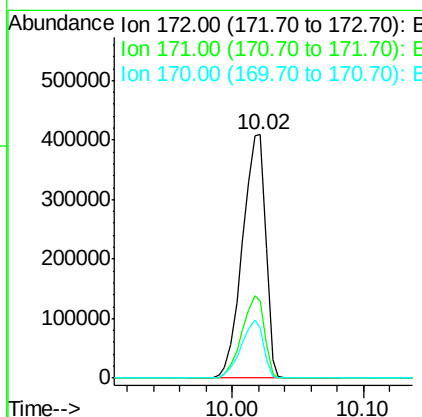
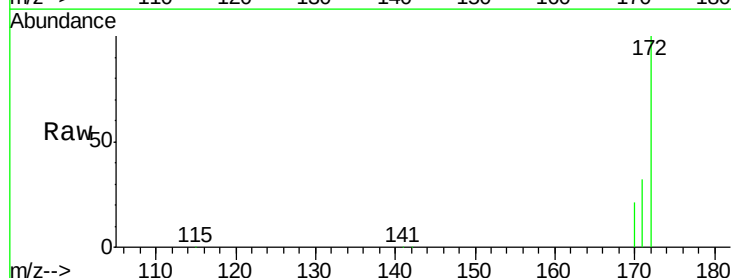
RT: 10.02 min Scan# 1986

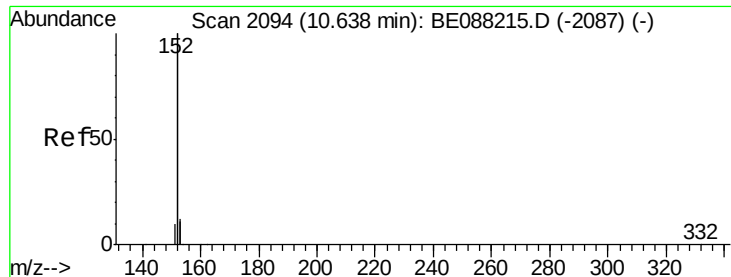
Delta R.T. 0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Tgt Ion:	172	Resp:	501498
Ion Ratio	Lower	Upper	
172	100		
171	31.8	25.8	38.6
170	20.7	17.4	26.0





#9

Acenaphthylene

Concen: 0.07 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

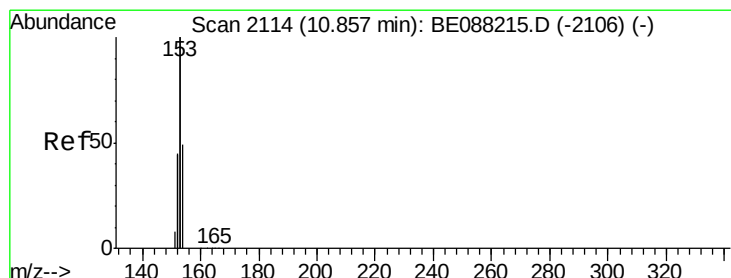
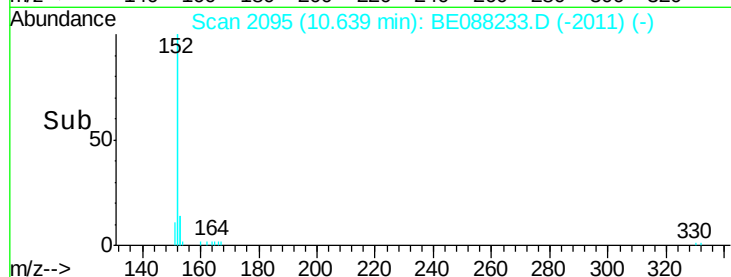
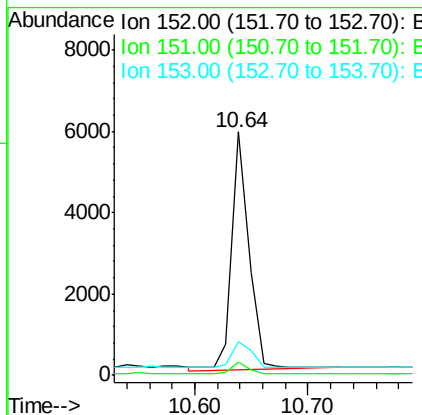
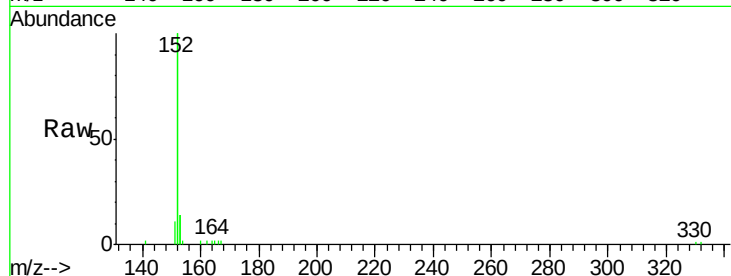
ClientSampleId :

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Tgt Ion:	152	Resp:	6231
Ion Ratio	Lower	Upper	
152	100		
151	4.5	3.7	5.5
153	15.8	10.3	15.5#



#10

Acenaphthene

Concen: 0.07 ng

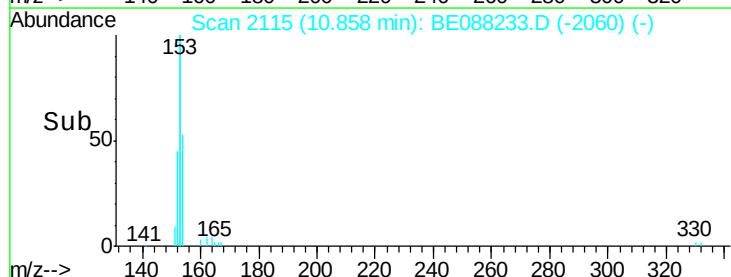
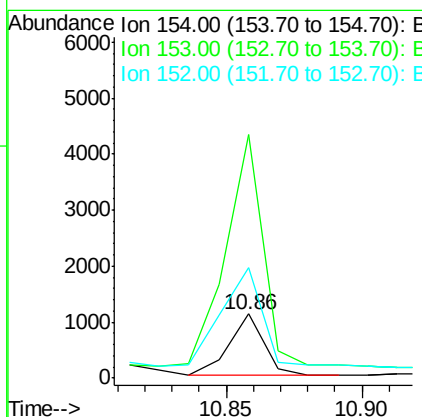
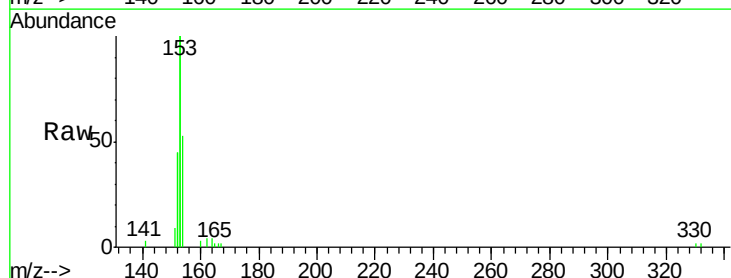
RT: 10.86 min Scan# 2115

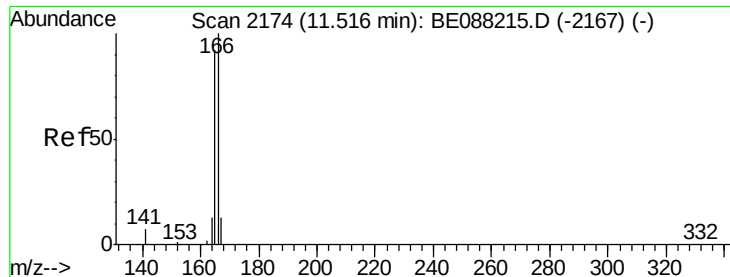
Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Tgt Ion:	154	Resp:	976
Ion Ratio	Lower	Upper	
154	100		
153	411.2	326.0	489.0
152	207.5	155.6	233.4





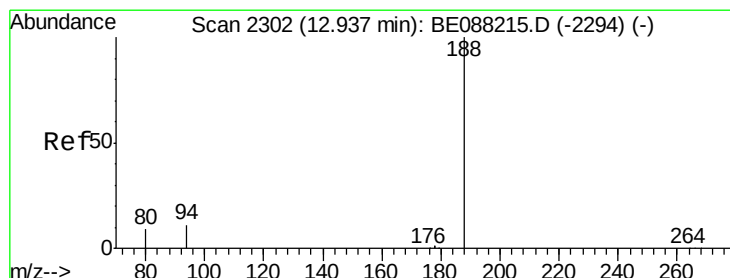
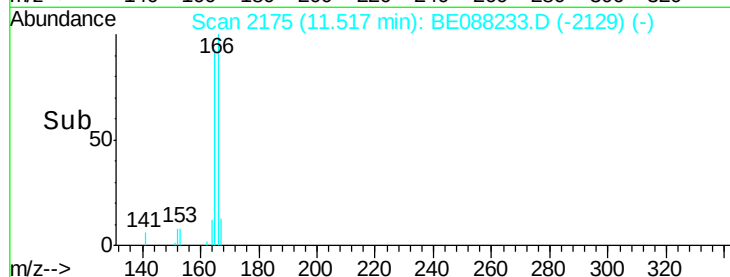
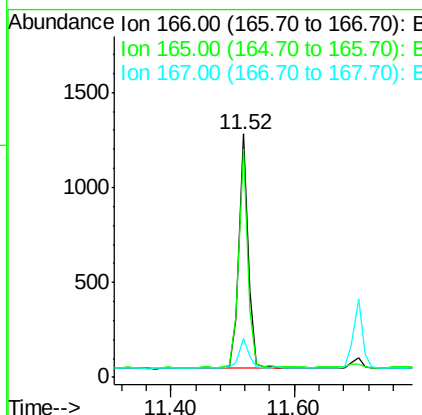
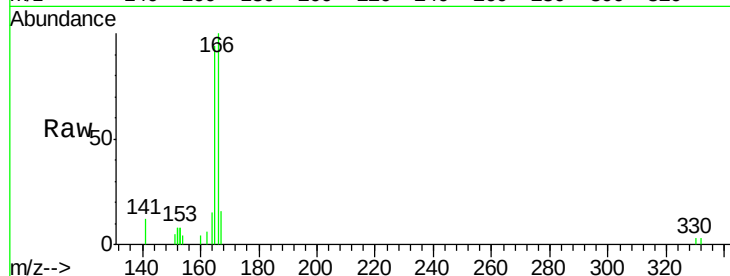
#11
 Fluorene
 Concen: 0.09 ng
 RT: 11.52 min Scan# 2175
 Delta R.T. 0.00 min
 Lab File: BE088233.D
 Acq: 25 Oct 2014 5:35

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43-1014

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.6	71.8	107.6
167	13.7	10.7	16.1

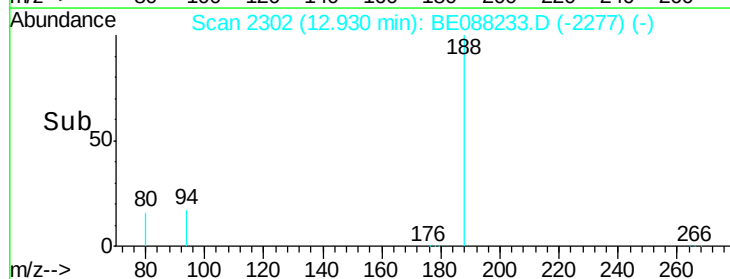
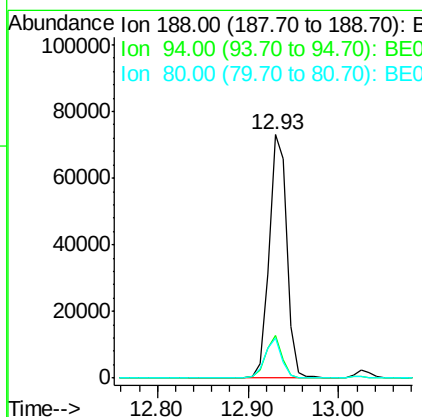
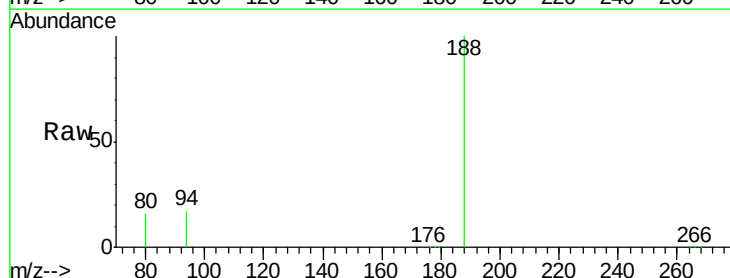
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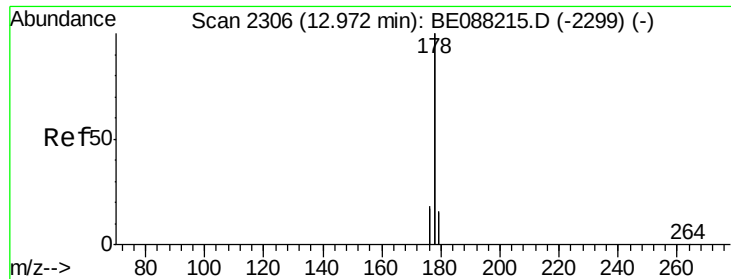
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#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.93 min Scan# 2302
 Delta R.T. -0.01 min
 Lab File: BE088233.D
 Acq: 25 Oct 2014 5:35

Tgt Ion	Ratio	Lower	Upper
188	100		
94	17.3	8.5	12.7#
80	16.4	7.4	11.0#





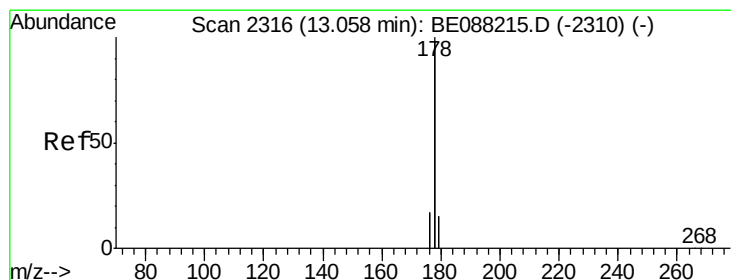
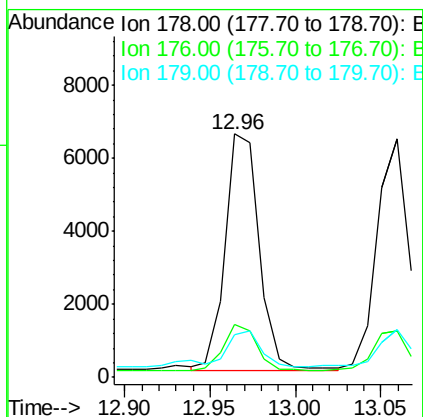
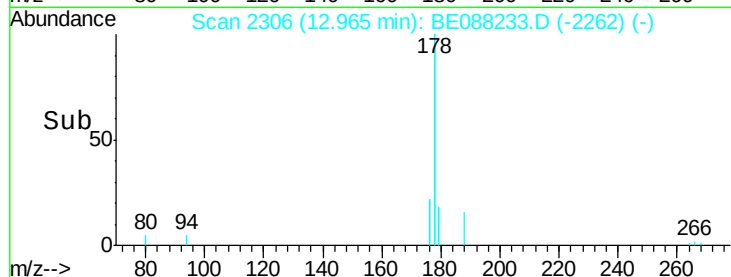
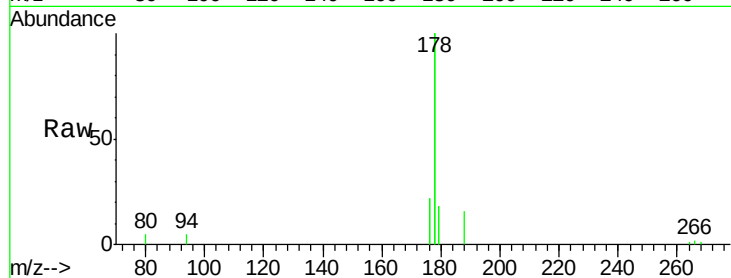
#13
Phenanthrene
Concen: 0.07 ng m
RT: 12.96 min Scan# 2306
Delta R.T. -0.01 min
Lab File: BE088233.D
Acq: 25 Oct 2014 5:35

Instrument :
BNA_E
ClientSampleId :
YS19-SB43-1014

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	14.0	21.0
179	16.7	11.8	17.6

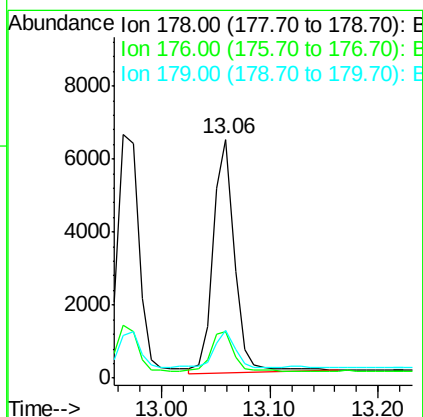
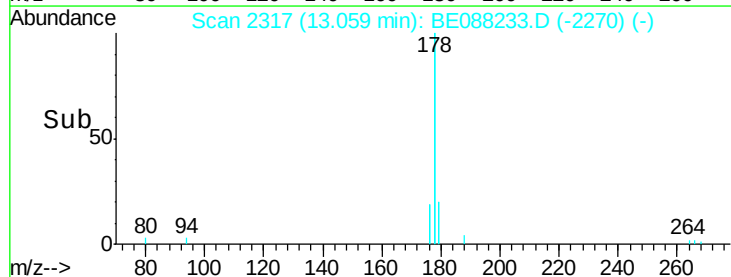
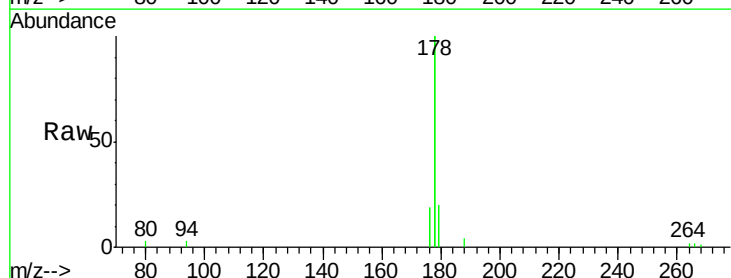
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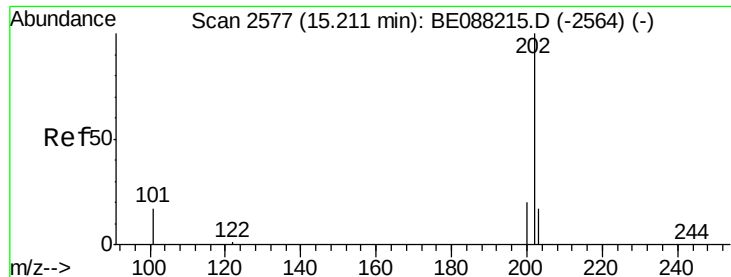
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#14
Anthracene
Concen: 0.10 ng
RT: 13.06 min Scan# 2317
Delta R.T. 0.00 min
Lab File: BE088233.D
Acq: 25 Oct 2014 5:35

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.9	14.7	22.1
179	17.2	12.3	18.5





#15

Fluoranthene

Concen: 0.10 ng

RT: 15.21 min Scan# 2578

Delta R.T. -0.00 min

Lab File: BE088233.D

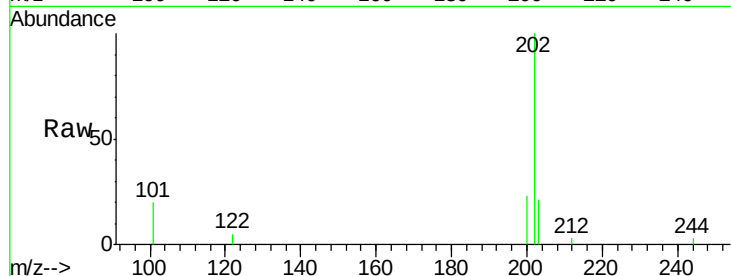
Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

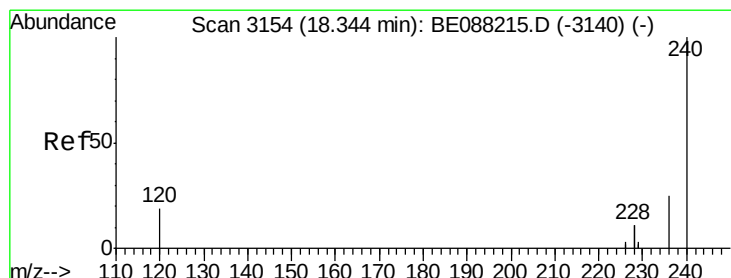
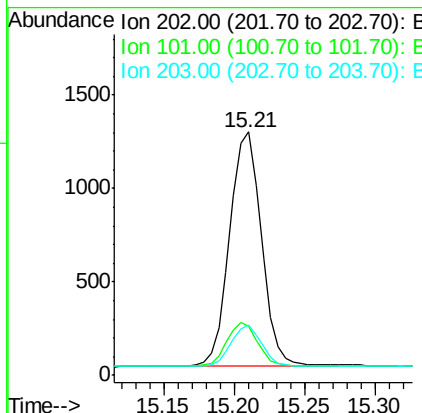
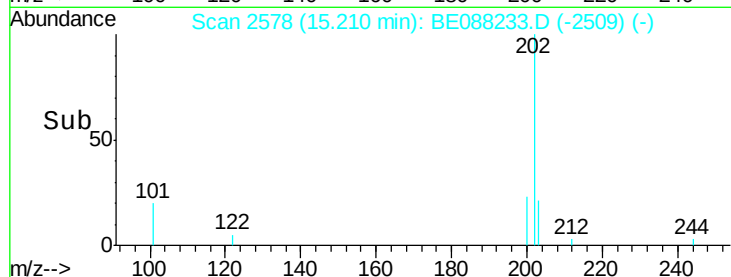
YS19-SB43-1014



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1953		
101	18.1		14.4	21.6
203	17.2		13.4	20.2

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#16

Chrysene-d12

Concen: 5.00 ng

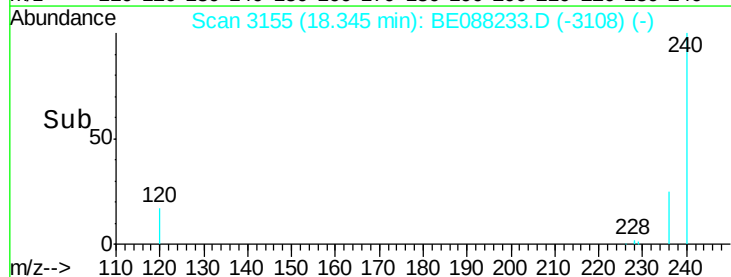
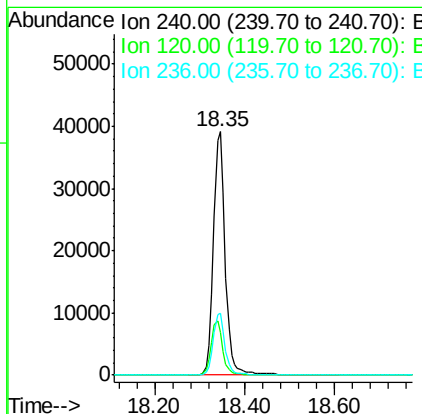
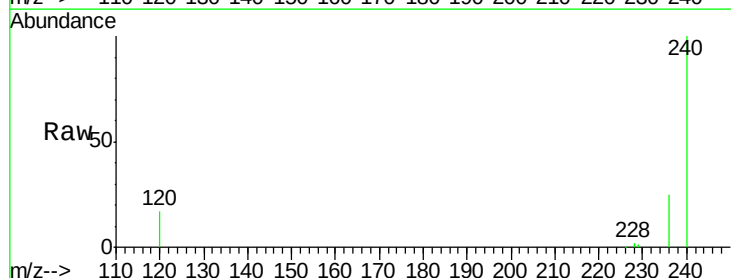
RT: 18.35 min Scan# 3155

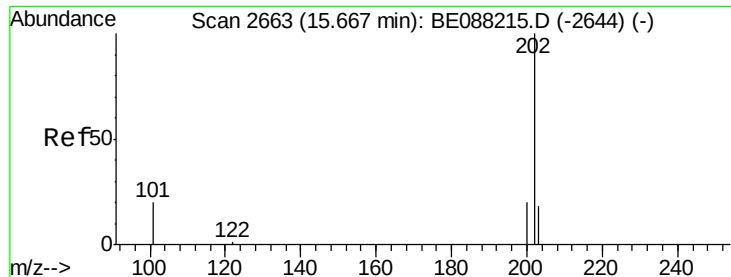
Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	70885		
120	17.5		15.1	22.7
236	25.1		20.1	30.1





#17

Pyrene

Concen: 0.11 ng

RT: 15.66 min Scan# 2663

Delta R.T. -0.01 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

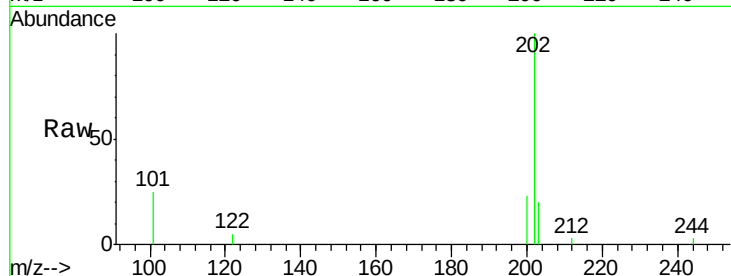
ClientSampleId :

YS19-SB43-1014

Tgt Ion:	202	Resp:	2094
Ion Ratio	Lower	Upper	
202	100		
200	20.2	16.2	24.2
203	17.7	13.8	20.8

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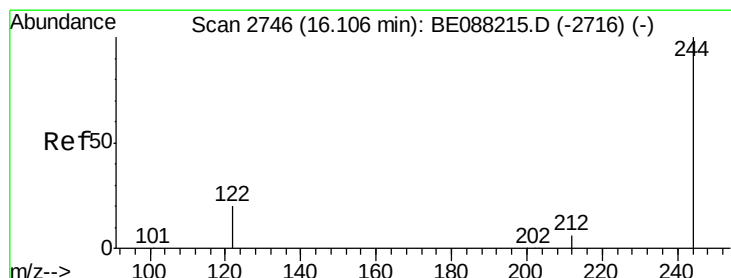
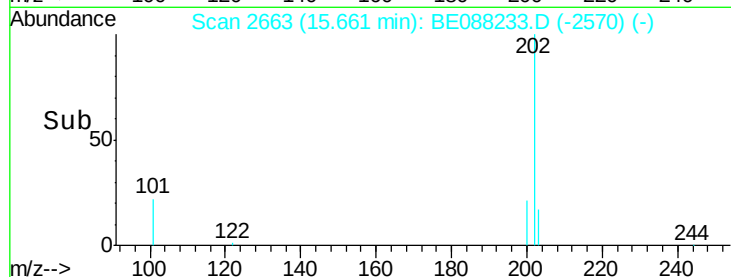
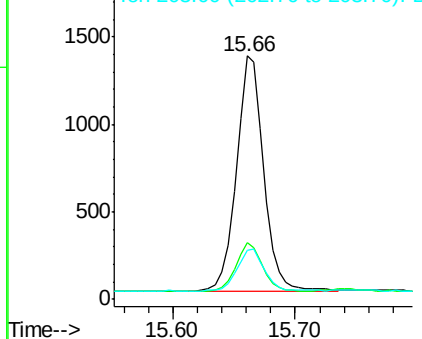
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 41.44 ng

RT: 16.13 min Scan# 2752

Delta R.T. 0.03 min

Lab File: BE088233.D

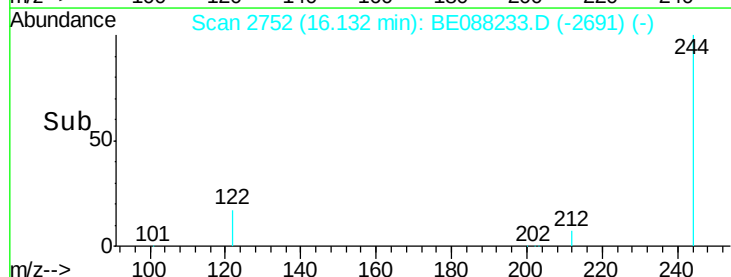
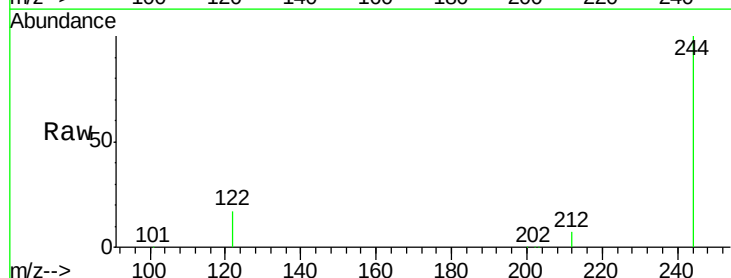
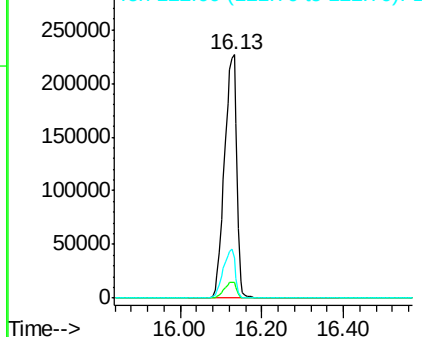
Acq: 25 Oct 2014 5:35

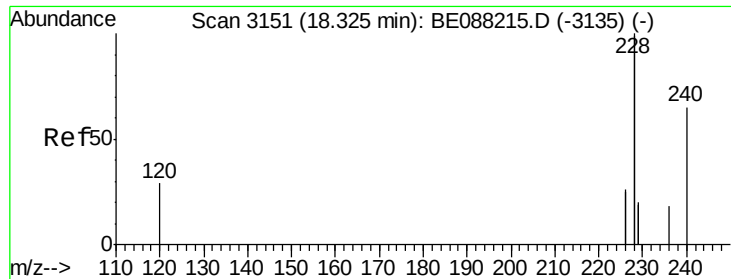
Tgt Ion:	244	Resp:	481047
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.2
122	16.7	16.7	25.1#

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





#19

Benzo(a)anthracene

Concen: 0.13 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088233.D

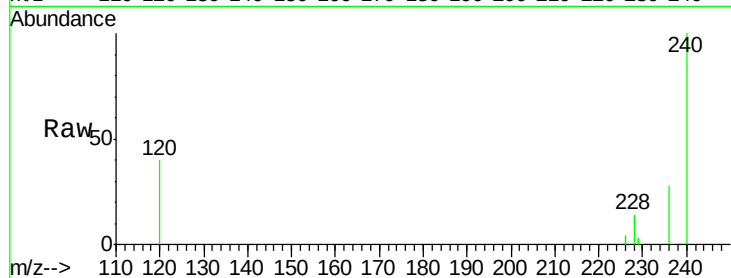
Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

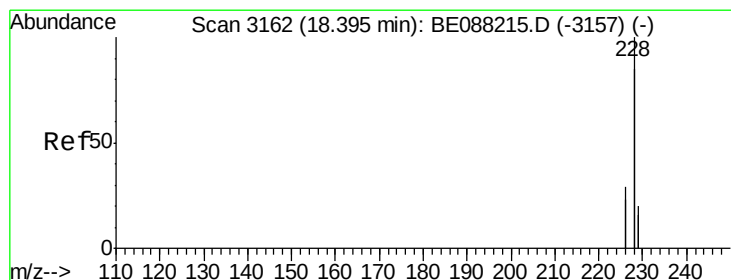
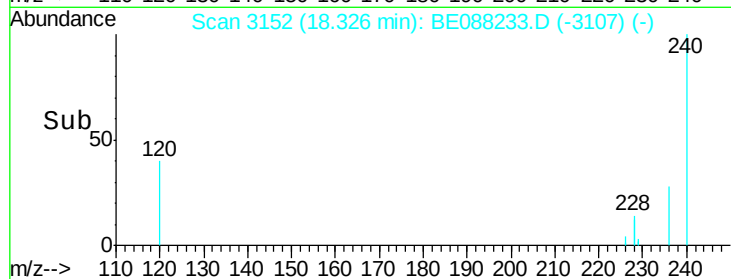
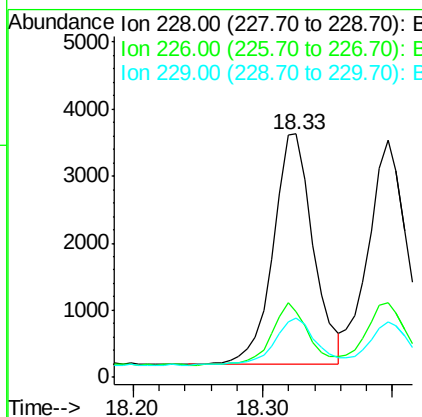
YS19-SB43-1014



Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	20.5	30.7
229	24.4	16.1	24.1#

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#20

Chrysene

Concen: 0.11 ng

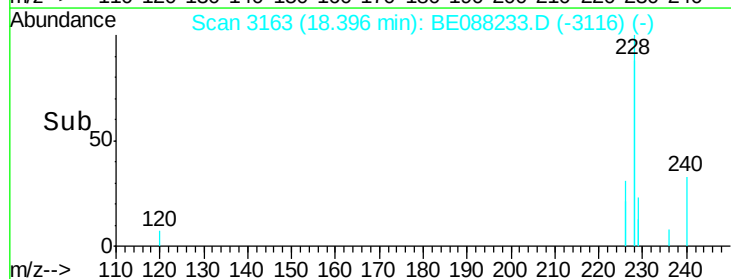
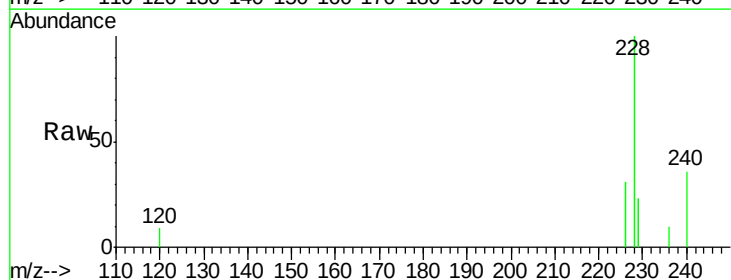
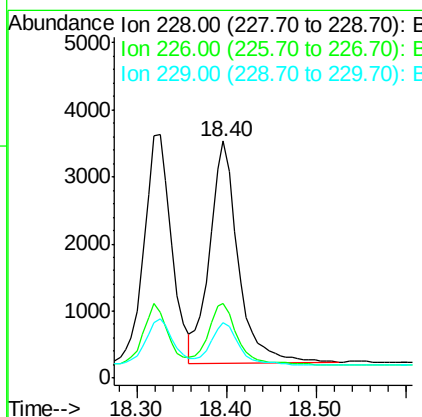
RT: 18.40 min Scan# 3163

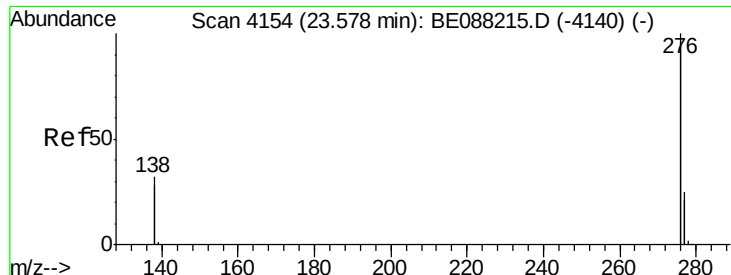
Delta R.T. 0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

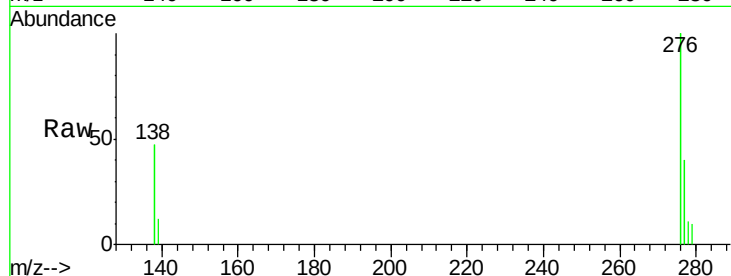
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.3	34.9
229	23.3	15.6	23.4





#21
Indeno(1,2,3-cd)pyrene
Concen: 0.31 ng m
RT: 23.57 min Scan# 4154
Delta R.T. -0.01 min
Lab File: BE088233.D
Acq: 25 Oct 2014 5:35

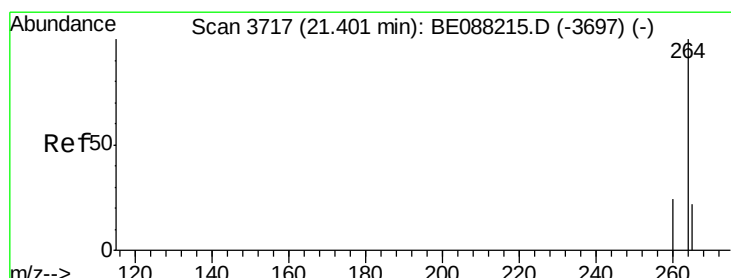
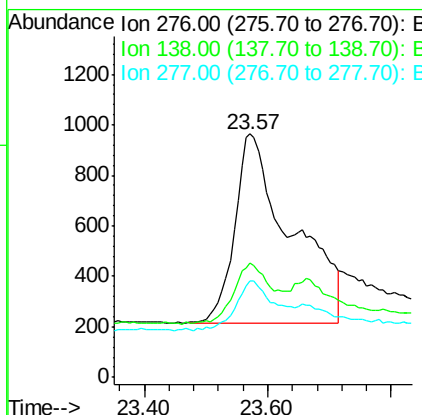
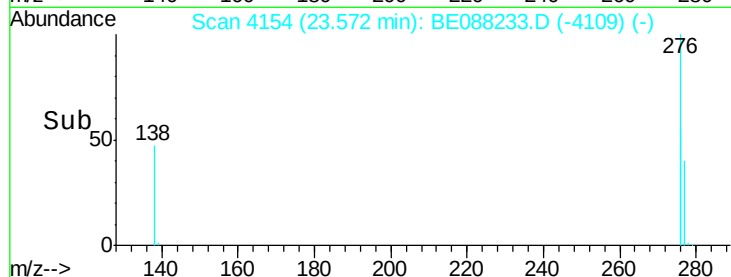
Instrument :
BNA_E
ClientSampleId :
YS19-SB43-1014



Tgt Ion: 276 Resp: 4807
Ion Ratio Lower Upper
276 100
138 21.7 13.9 20.9#
277 18.5 10.7 16.1#

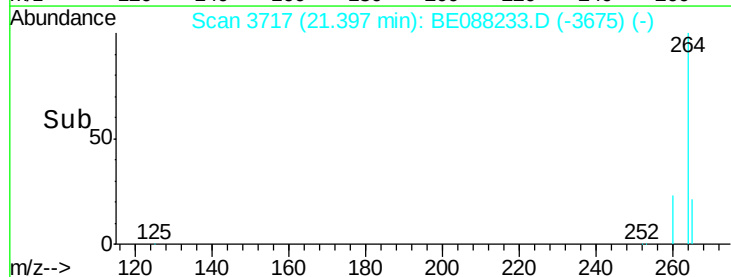
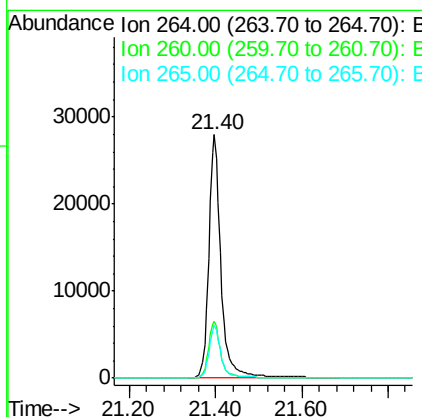
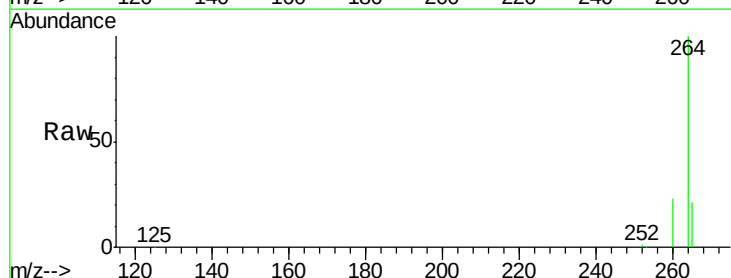
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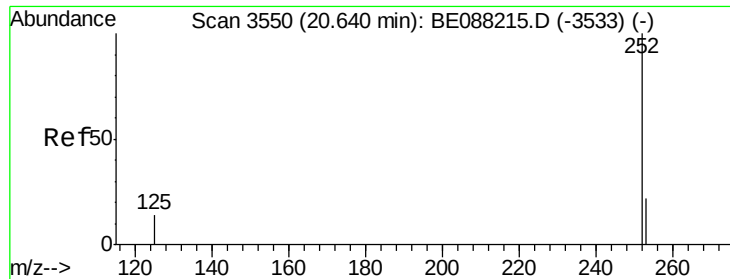
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#22
Perylene-d12
Concen: 5.00 ng
RT: 21.40 min Scan# 3717
Delta R.T. -0.00 min
Lab File: BE088233.D
Acq: 25 Oct 2014 5:35

Tgt Ion: 264 Resp: 54930
Ion Ratio Lower Upper
264 100
260 23.3 19.0 28.4
265 21.5 17.4 26.2





#23

Benzo(b)fluoranthene

Concen: 0.28 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088233.D

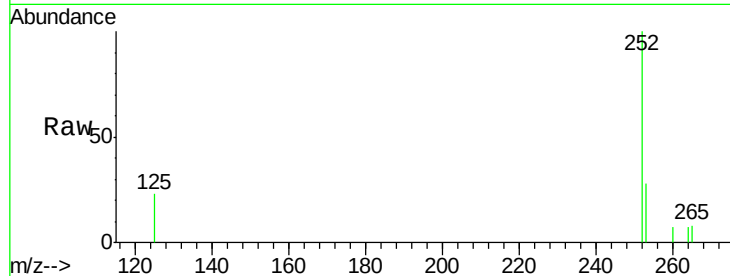
Acq: 25 Oct 2014 5:35

Instrument :

BNA_E

ClientSampleId :

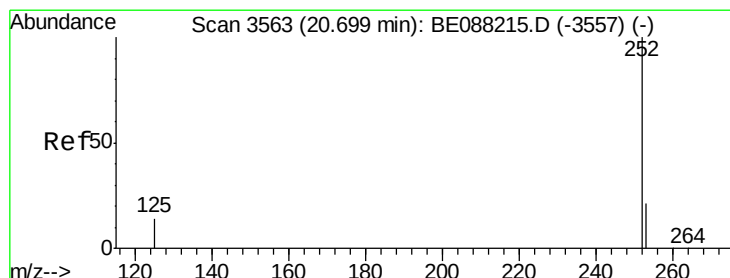
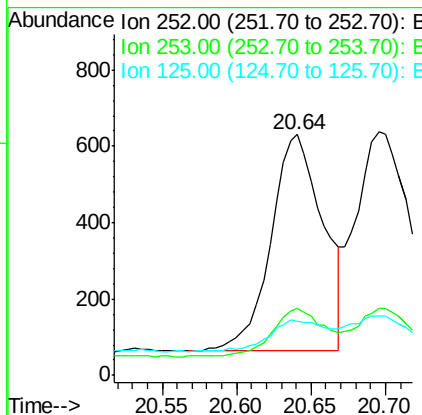
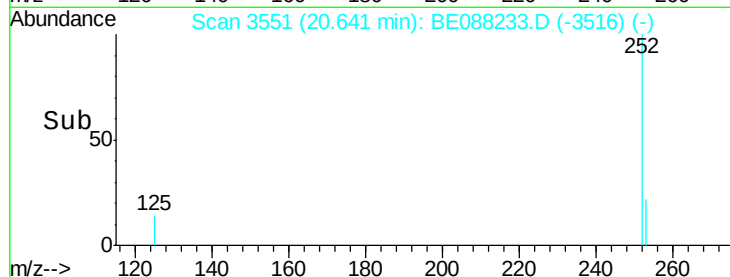
YS19-SB43-1014



Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.6	17.9	26.9#
125	22.7	12.2	18.2#

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#24

Benzo(k)fluoranthene

Concen: 0.13 ng

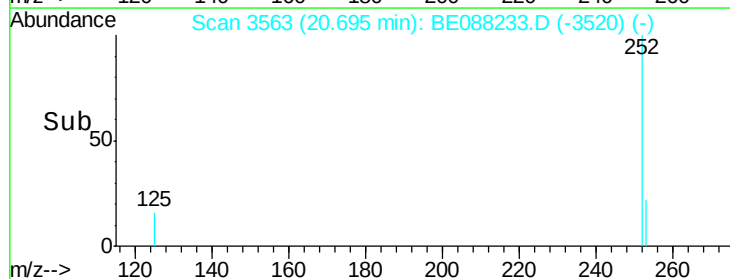
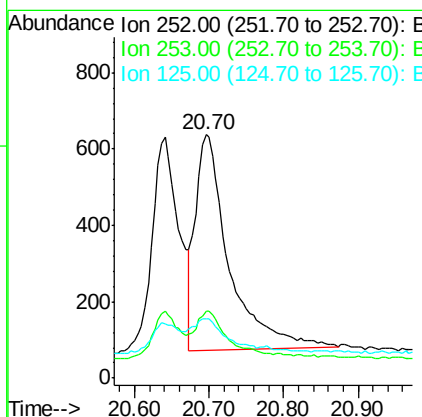
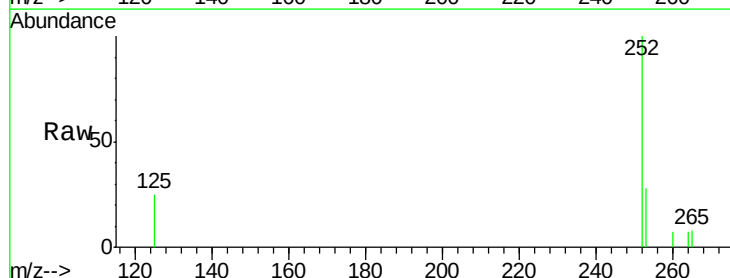
RT: 20.70 min Scan# 3563

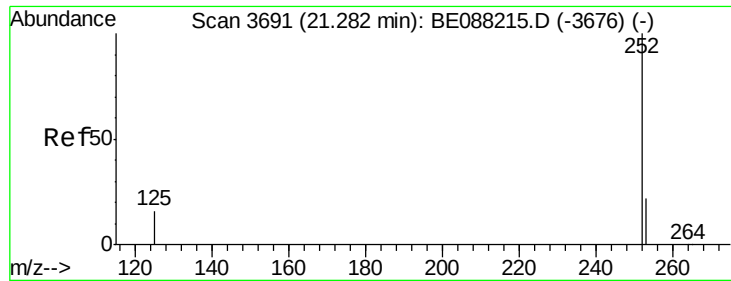
Delta R.T. -0.00 min

Lab File: BE088233.D

Acq: 25 Oct 2014 5:35

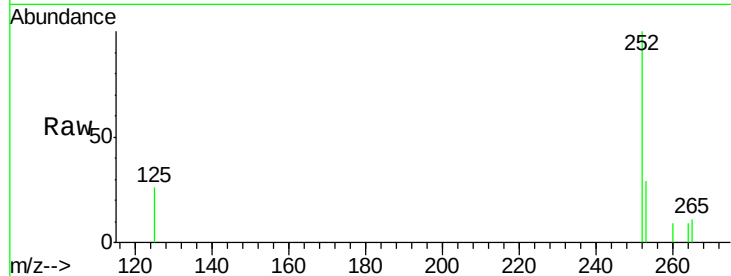
Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	17.6	26.4#
125	24.6	12.1	18.1#





#25
Benzo(a)pyrene
Concen: 0.28 ng
RT: 21.28 min Scan# 3691
Delta R.T. -0.00 min
Lab File: BE088233.D
Acq: 25 Oct 2014 5:35

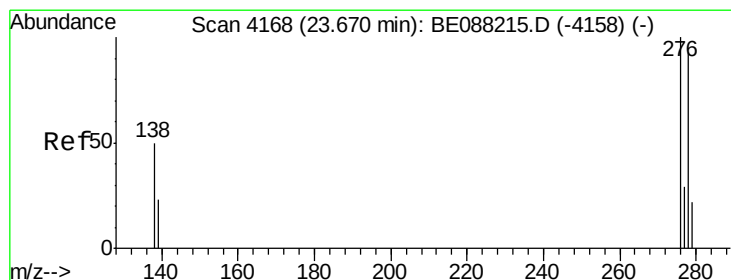
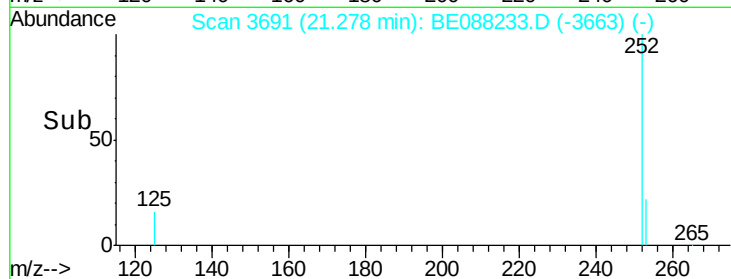
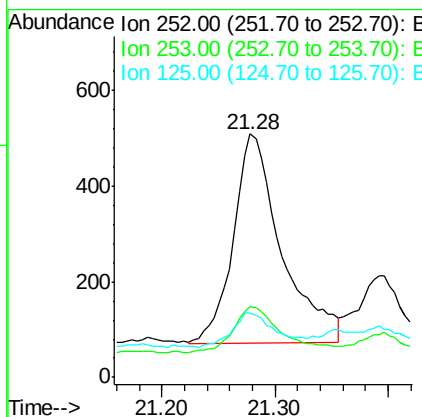
Instrument :
BNA_E
ClientSampleId :
YS19-SB43-1014



Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.3	17.8	26.8#
125	26.3	13.5	20.3#

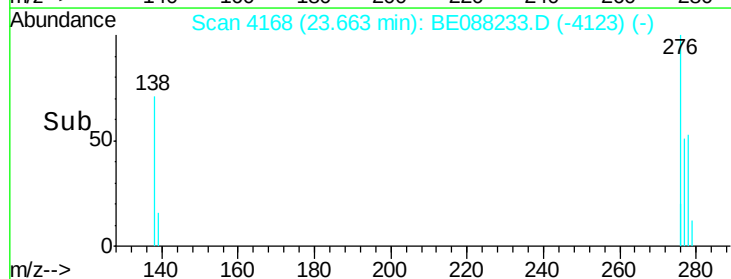
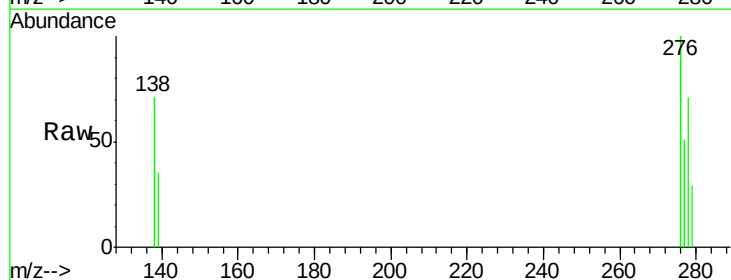
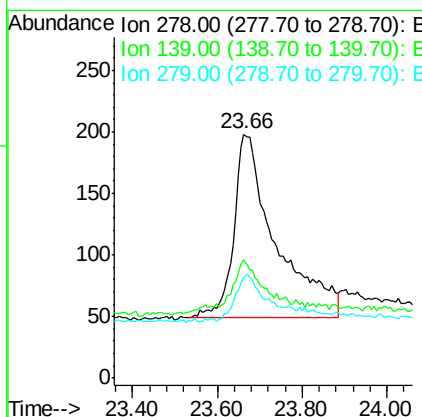
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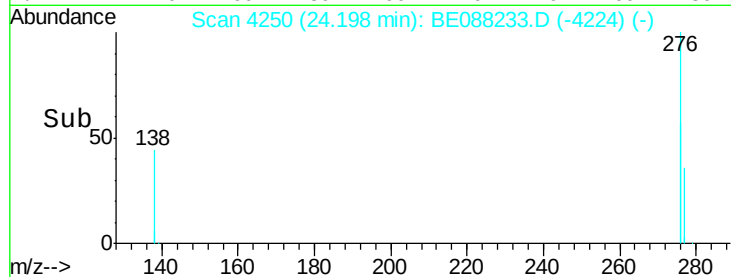
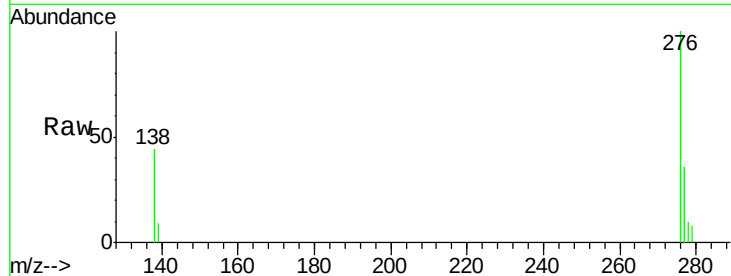
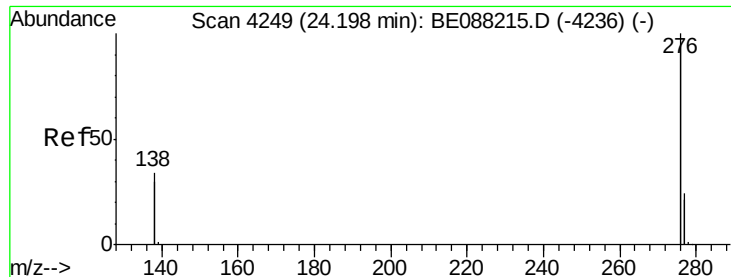
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#26
Dibenzo(a,h)anthracene
Concen: 0.30 ng
RT: 23.66 min Scan# 4168
Delta R.T. -0.01 min
Lab File: BE088233.D
Acq: 25 Oct 2014 5:35

Tgt Ion	Ratio	Lower	Upper
278	100		
139	48.5	22.1	33.1#
279	40.9	20.2	30.2#





#27
 Benzo(g,h,i)perylene
 Concen: 0.12 ng
 RT: 24.20 min Scan# 4250
 Delta R.T. -0.00 min
 Lab File: BE088233.D
 Acq: 25 Oct 2014 5:35

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43-1014

Tgt Ion	Ratio	Lower	Upper
276	100		
277	35.6	19.4	29.2#
138	43.7	27.3	40.9#

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