

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
 Data File : BE092192.D
 Acq On : 4 Aug 2016 21:11
 Operator : UM/SJ
 Sample : PB92633BS
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Manual Integrations
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Quant Time: Aug 05 03:46:10 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	13226	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	57906	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	27062	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	59267	5.00	ng	-0.02
22) Chrysene-d12	21.73	240	59068	5.00	ng	-0.02
28) Perylene-d12	24.14	264	24979	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	23298	6.86	ng	0.00
5) Phenol-d6	7.34	99	28815	6.37	ng	-0.01
7) Nitrobenzene-d5	9.34	82	13851	3.03	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	6319	7.19	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	29246	3.41	ng	0.00
24) Terphenyl-d14	20.19	244	33716	3.97	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	5381	2.99	ng	93
3) n-Nitrosodimethylamine	3.78	42	9009	3.63	ng	# 81
8) Naphthalene	11.03	128	38563	3.10	ng	95
9) 2-Methylnaphthalene	12.64	142	25838	3.14	ng	# 86
13) Acenaphthylene	14.54	152	117499	2.46	ng	98
14) Acenaphthene	14.90	154	22621	2.97	ng	# 96
15) Fluorene	15.88	166	29475	3.05	ng	100
17) Hexachlorobenzene	16.89	284	8094	2.79	ng	# 38
18) Pentachlorophenol	17.24	266	6714	6.20	ng	# 82
19) Phenanthrene	17.61	178	51622	3.19	ng	99
20) Anthracene	17.70	178	44157	2.80	ng	99
21) Fluoranthene	19.63	202	193688	2.67	ng	97
23) Pvrene	19.99	202	173066	2.80	ng	97
25) Benzo(a)anthracene	21.72	228	204345	3.15	ng	97
26) Chrysene	21.77	228	197416m	3.04	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	192250	2.72	ng	97
29) Benzo(b)fluoranthene	23.40	252	54249	7.94	ng	97
30) Benzo(k)fluoranthene	23.45	252	46337	7.10	ng	97
31) Benzo(a)pvrene	24.02	252	34647	5.52	ng	96
32) Dibenzo(a,h)anthracene	26.67	278	51190	8.54	ng	# 92
33) Benzo(g,h,i)perylene	27.40	276	154794	6.05	ng	98

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

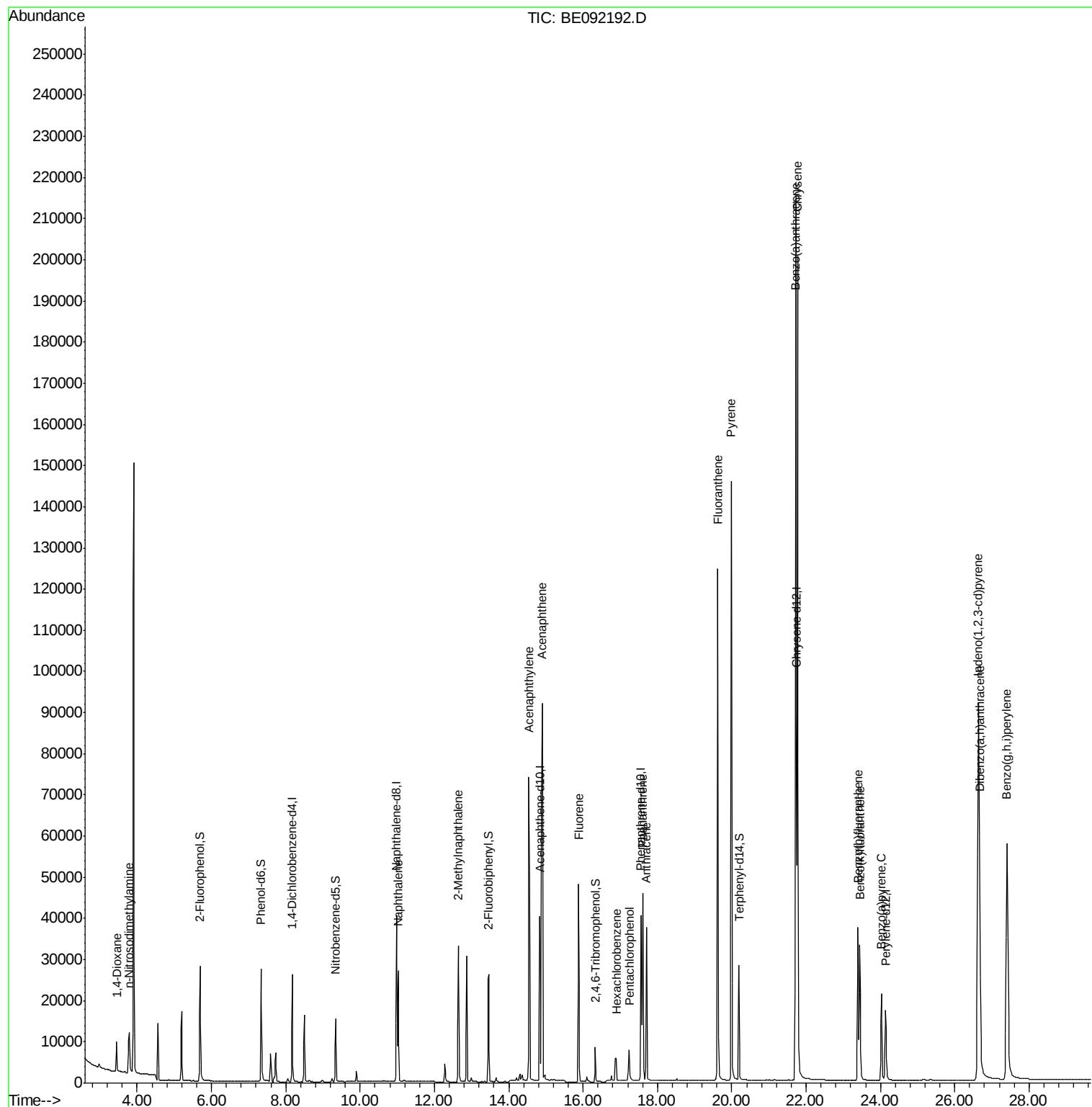
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
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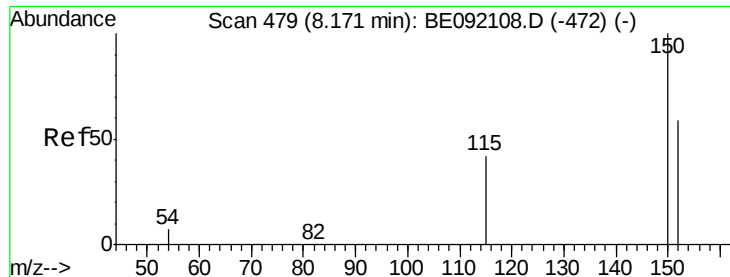
Instrument :
BNA_E
ClientSampleId :
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#1

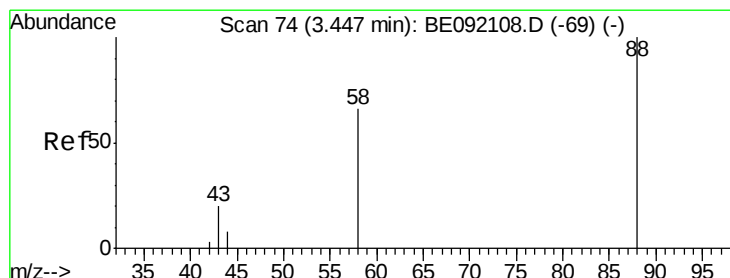
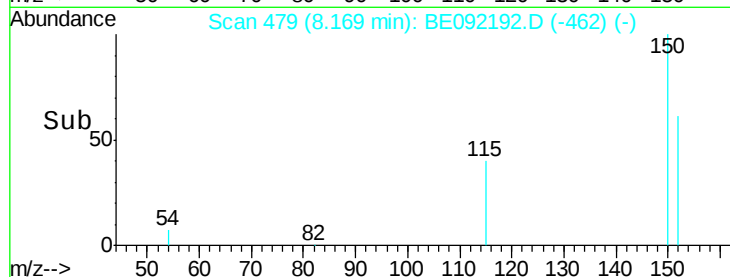
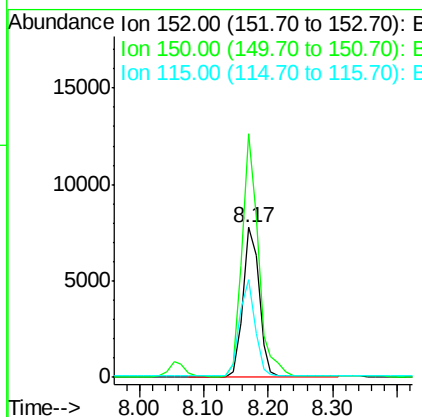
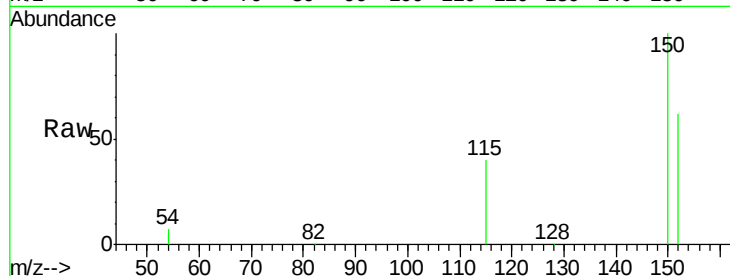
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.17 min Scan# 479
Delta R.T. -0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.3	106.0	159.0#
115	65.4	36.9	55.3#

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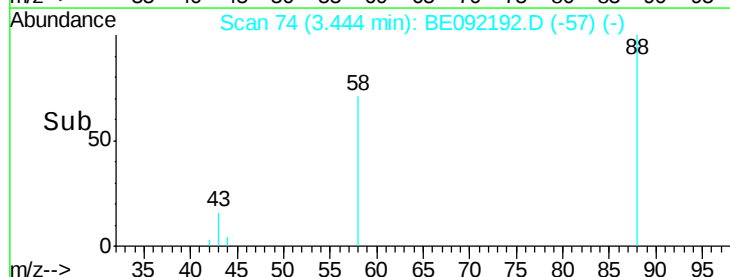
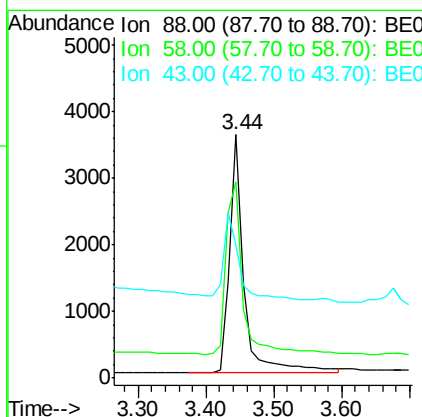
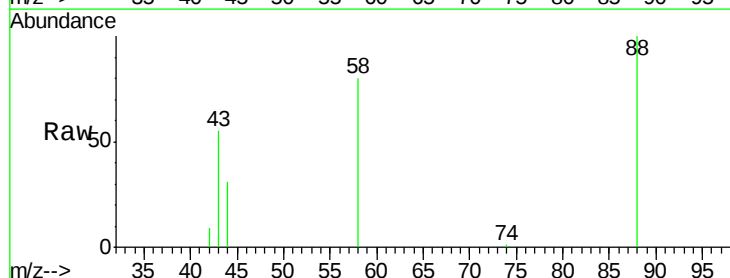
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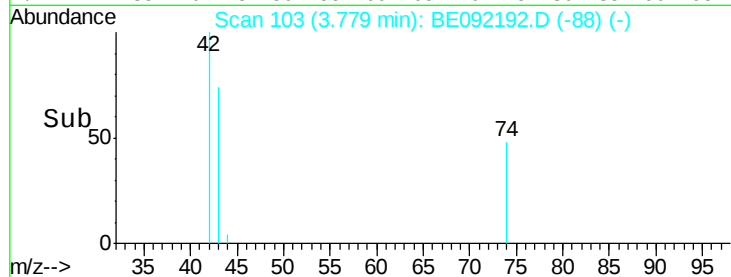
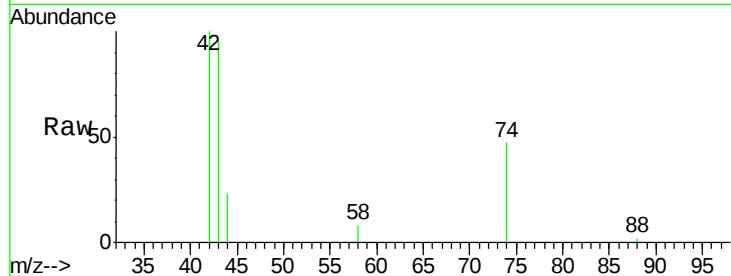
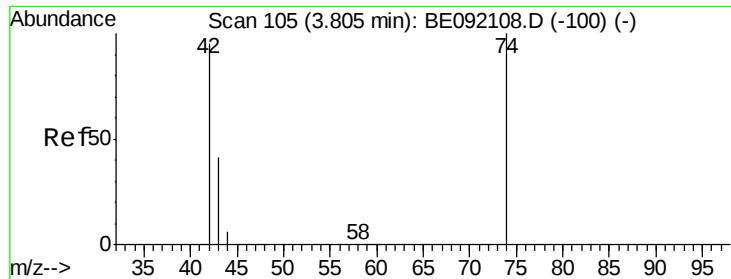


#2

1,4-Dioxane
Concen: 2.99 ng
RT: 3.44 min Scan# 74
Delta R.T. -0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Lower	Upper
88	100		
58	82.8	62.1	93.1
43	39.3	27.2	40.8





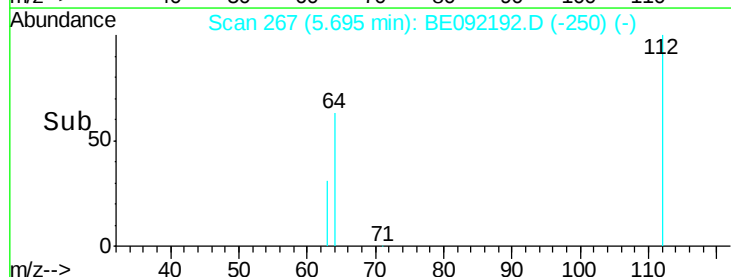
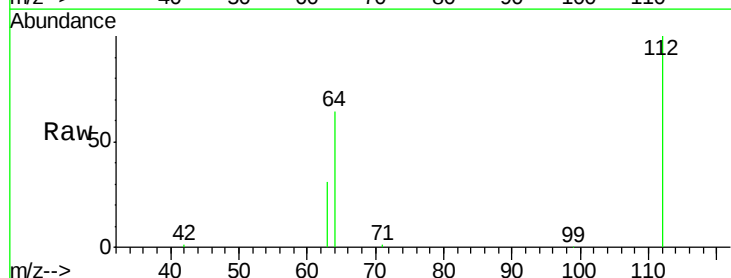
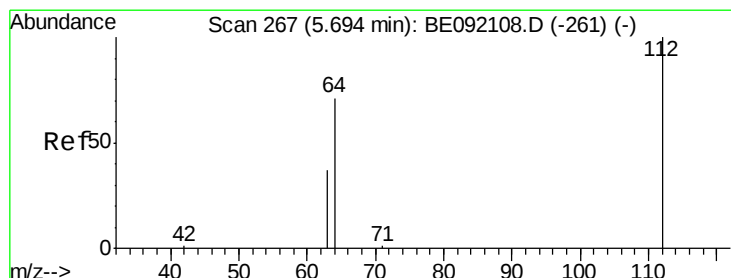
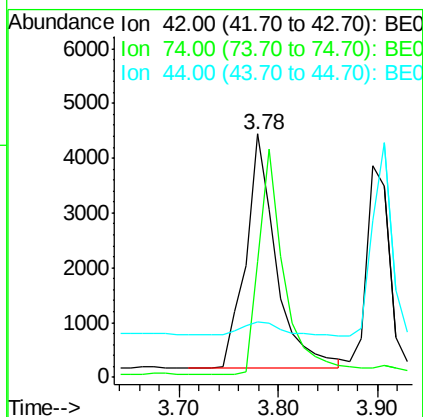
#3
n-Nitrosodimethylamine
Concen: 3.63 ng
RT: 3.78 min Scan# 103
Delta R.T. -0.03 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tot Ion	Ratio	Lower	Upper
42	100		
74	83.1	82.8	124.2
44	7.2	9.0	13.4

Instrument :
BNA_E
ClientSampleId :
PB92633BS

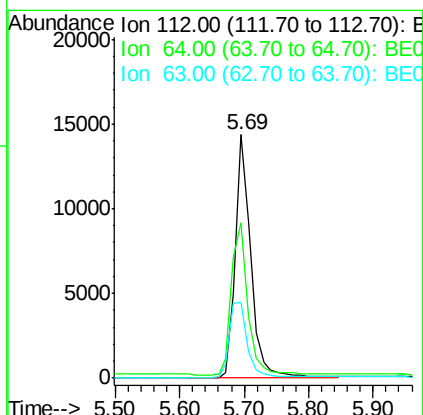
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#4
2-Fluorophenol
Concen: 6.86 ng
RT: 5.69 min Scan# 267
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.8	55.9	83.9
63	36.4	31.1	46.7





#5

Phenol-d6

Concen: 6.37 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

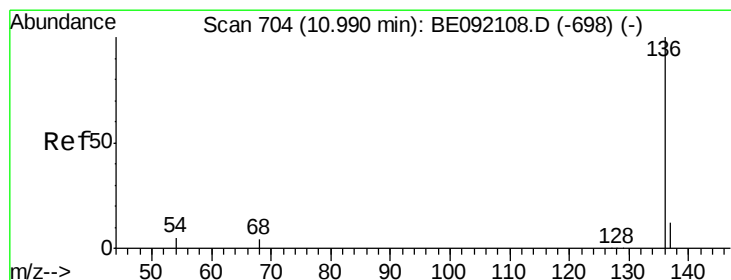
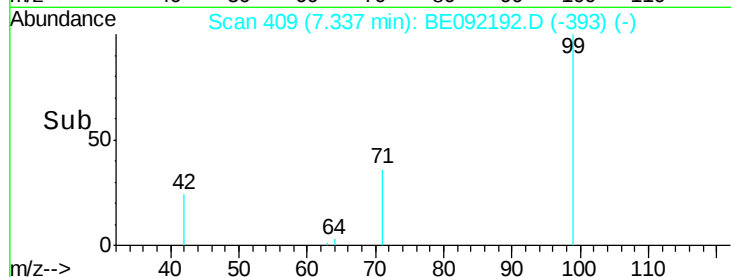
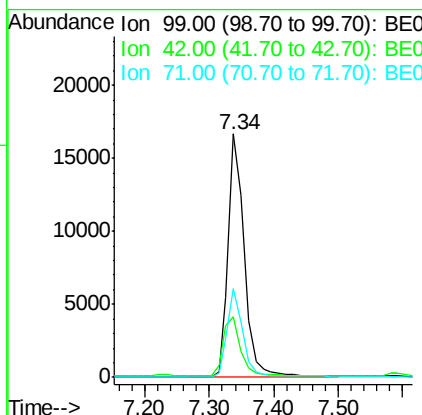
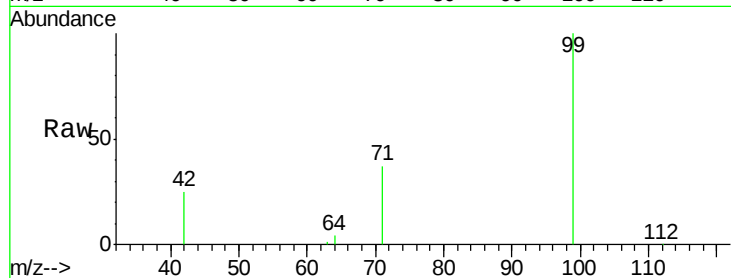
ClientSampleId :

PB92633BS

Tot Ion:	99	Resp:	28815
Ion Ratio	Lower	Upper	
99	100		
42	26.1	22.4	33.6
71	35.2	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

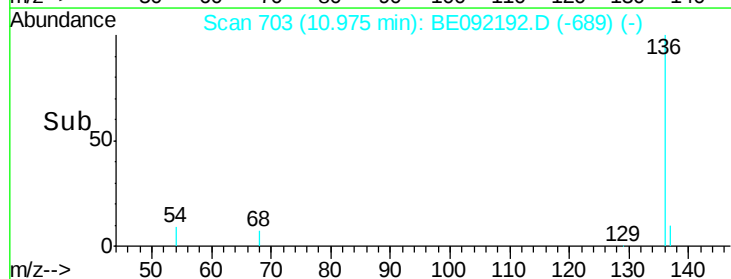
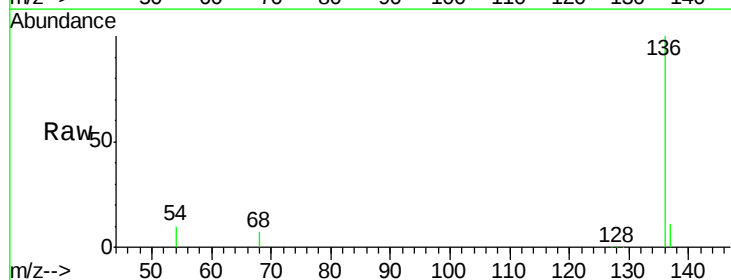
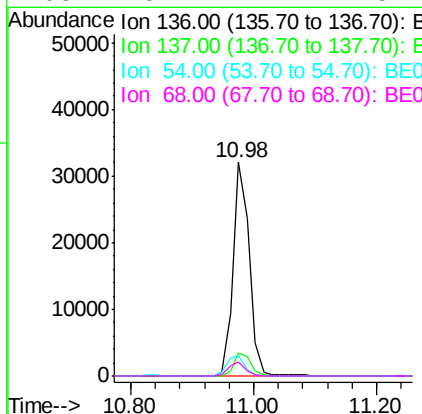
RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion:	136	Resp:	57906
Ion Ratio	Lower	Upper	
136	100		
137	10.6	9.1	13.7
54	9.5	2.7	4.1#
68	6.7	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.03 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

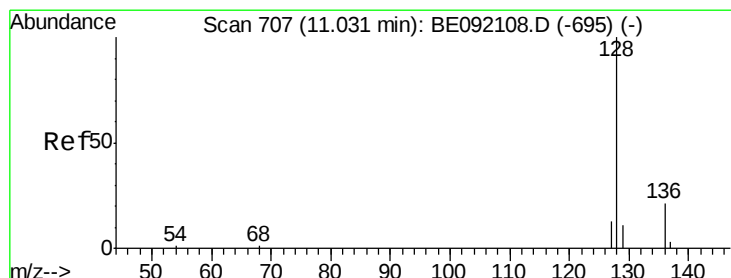
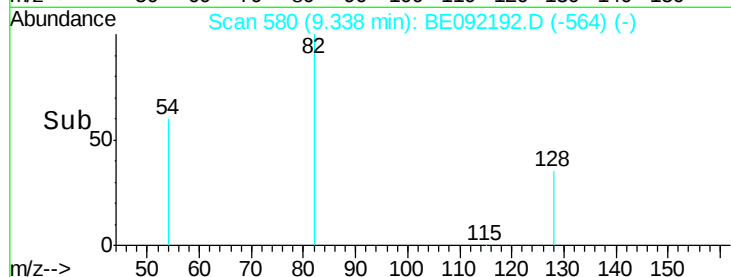
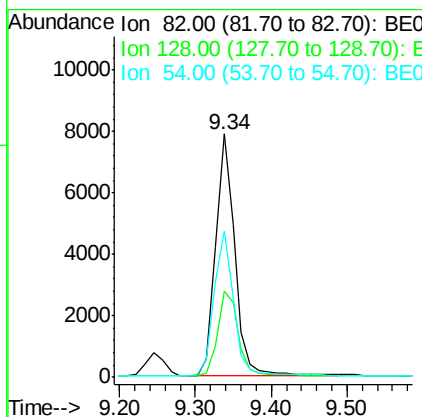
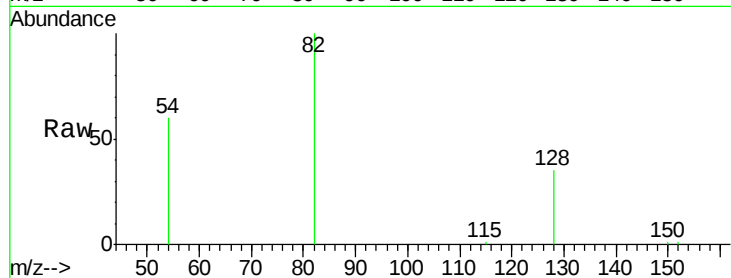
ClientSampleId :

PB92633BS

Tot Ion:	82	Resp:	13851
Ion Ratio	Lower	Upper	
82	100		
128	35.5	33.0	49.4
54	59.9	42.6	63.8

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#8

Naphthalene

Concen: 3.10 ng

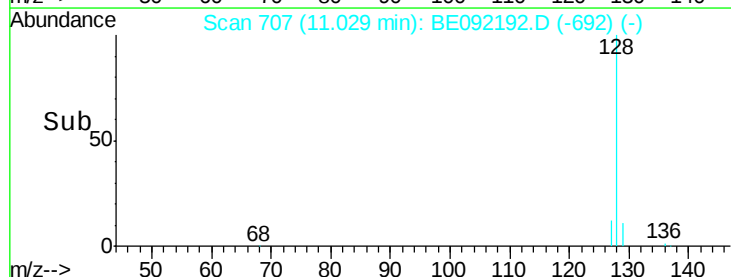
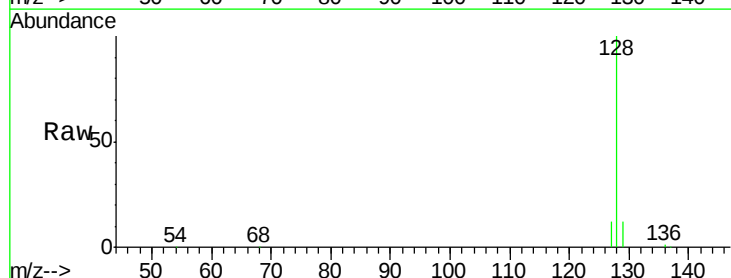
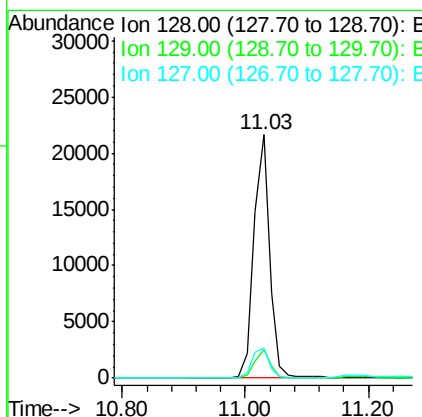
RT: 11.03 min Scan# 707

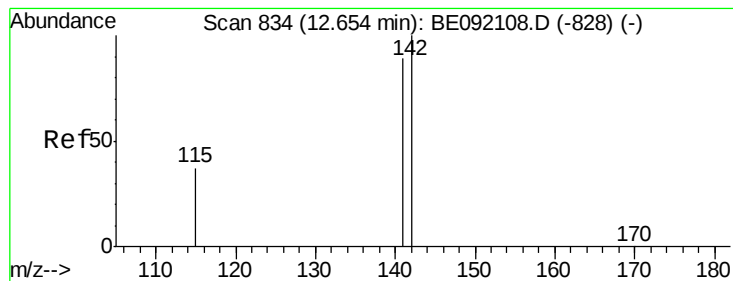
Delta R.T. -0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion:	128	Resp:	38563
Ion Ratio	Lower	Upper	
128	100		
129	11.6	11.1	16.7
127	12.2	11.3	16.9





#9

2-Methylnaphthalene

Concen: 3.14 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

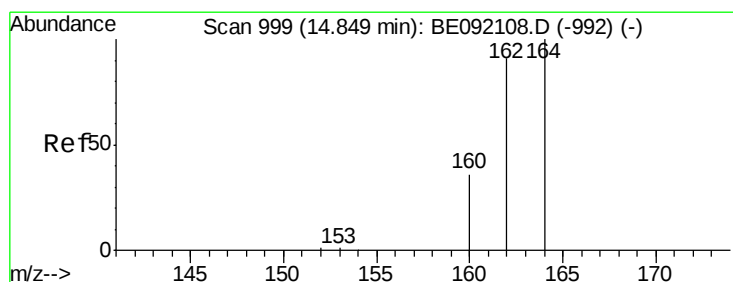
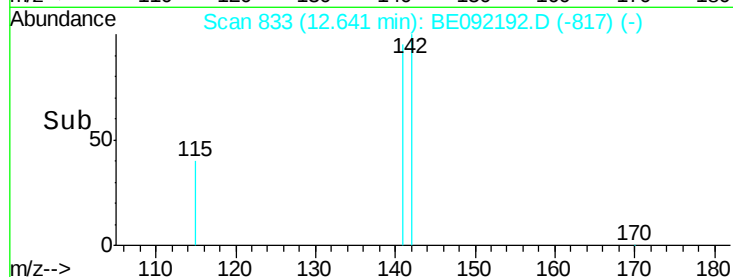
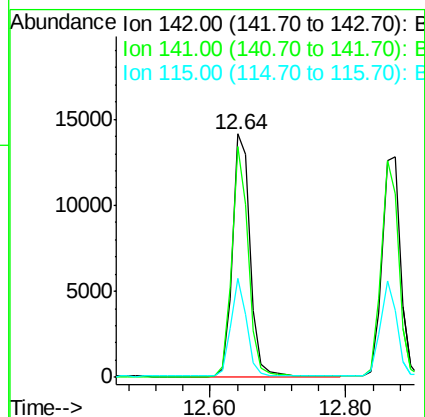
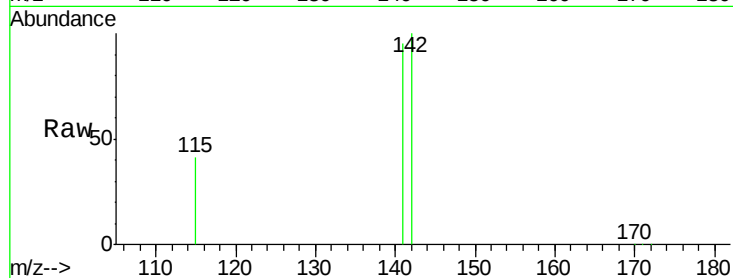
ClientSampleId :

PB92633BS

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.6	65.1	97.7
115	40.7	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

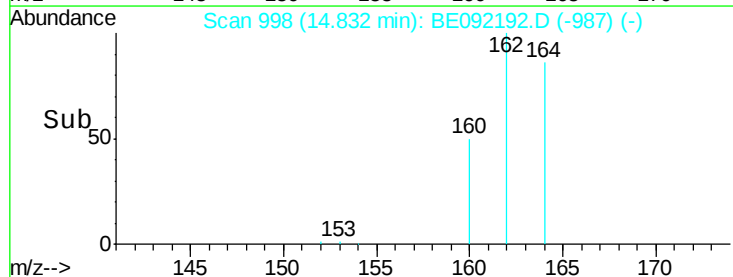
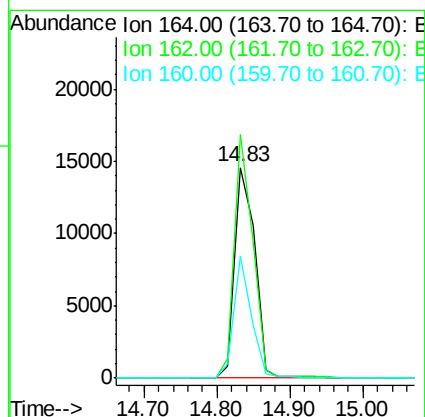
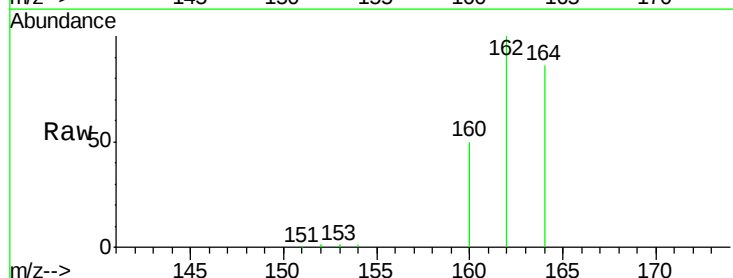
RT: 14.83 min Scan# 998

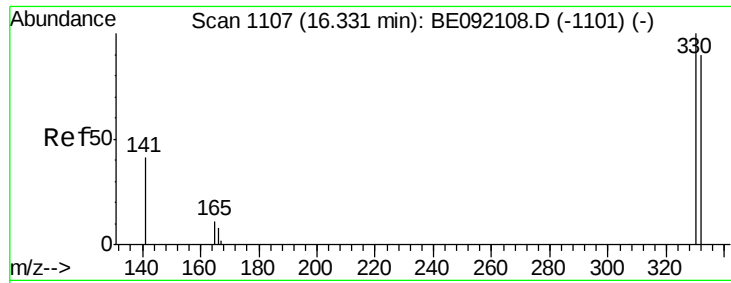
Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Lower	Upper
164	100		
162	115.8	69.5	104.3
160	57.7	27.6	41.4





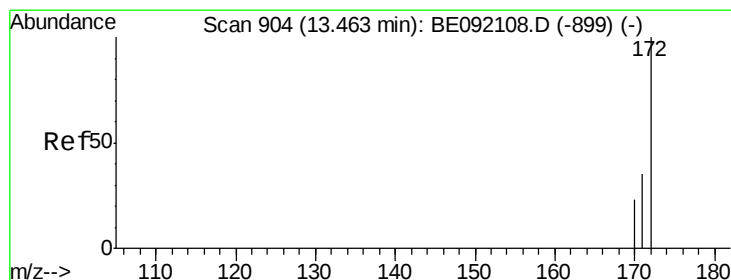
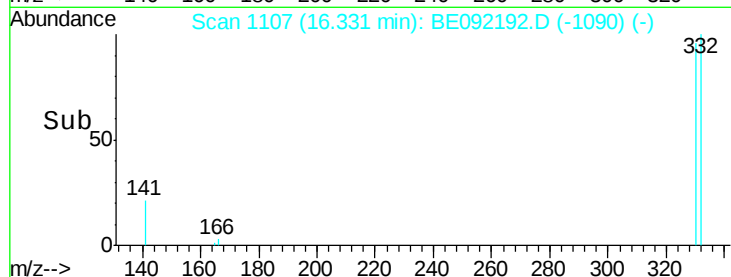
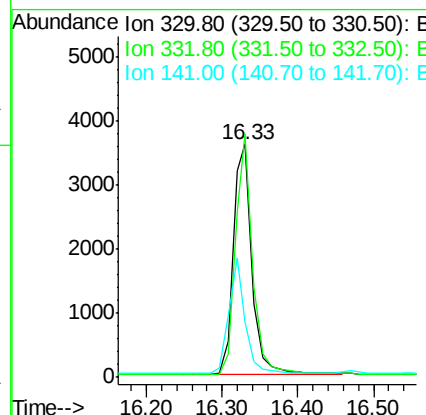
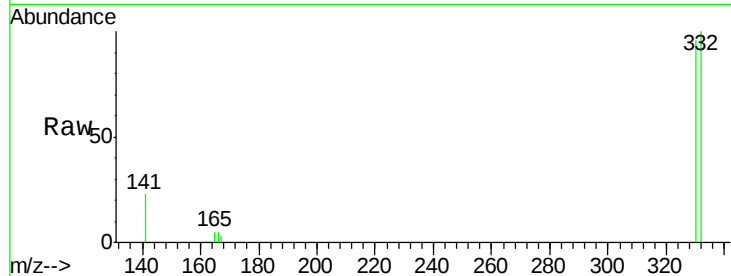
#11
 2,4,6-Tribromophenol
 Concen: 7.19 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092192.D
 Acq: 4 Aug 2016 21:11

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.2	74.2	111.4	
141	44.5	139.8	209.8	

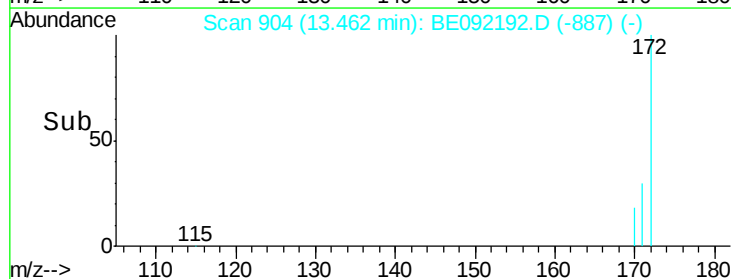
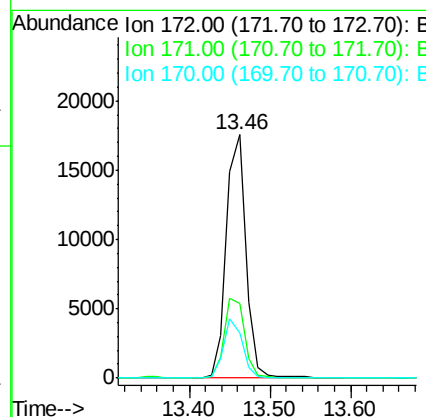
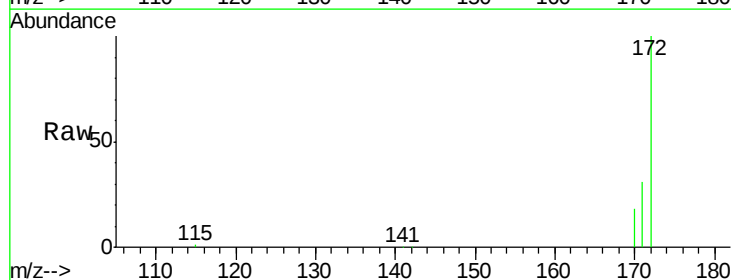
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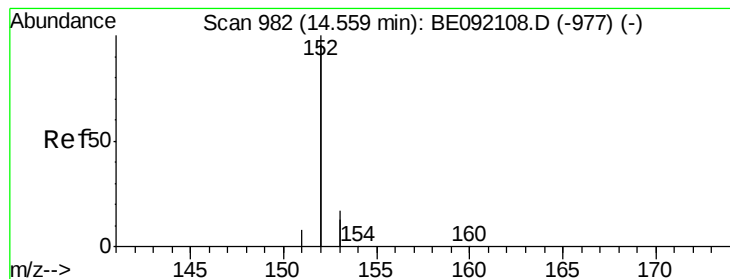
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#12
 2-Fluorobiphenyl
 Concen: 3.41 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092192.D
 Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	30.7	30.3	45.5	
170	18.4	21.6	32.4	





#13

Acenaphthylene

Concen: 2.46 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

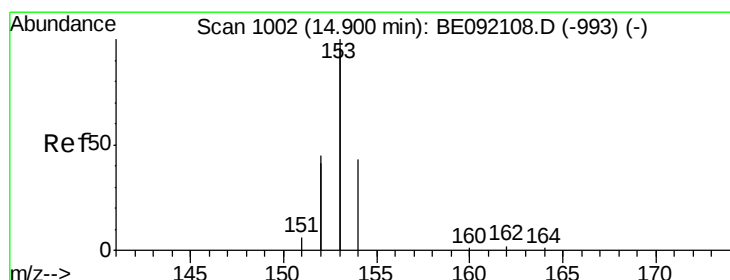
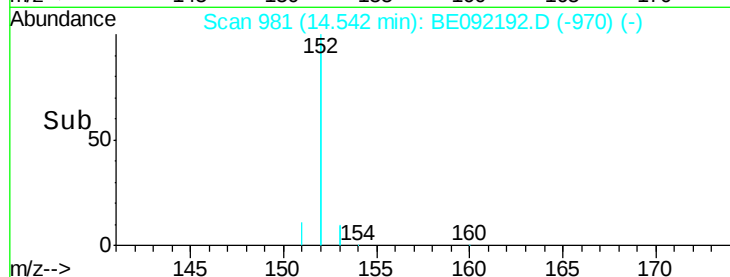
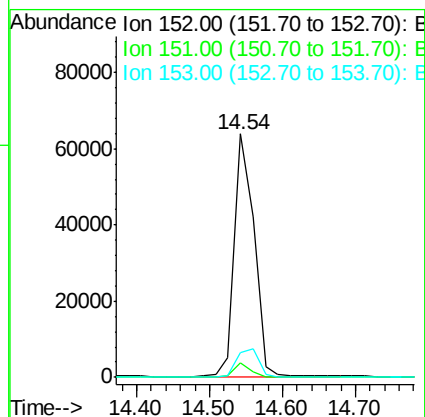
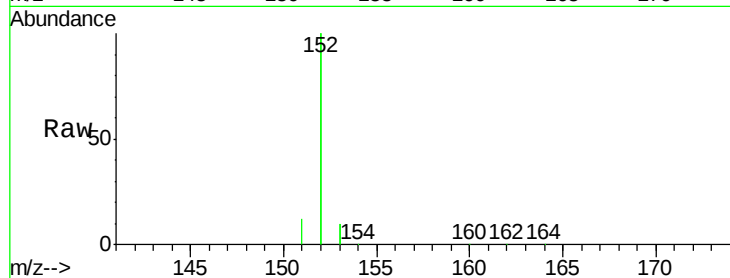
ClientSampleId :

PB92633BS

Tot Ion:	152	Resp:	117499
Ion Ratio	Lower	Upper	
152	100		
151	4.9	4.0	6.0
153	13.0	9.6	14.4

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#14

Acenaphthene

Concen: 2.97 ng

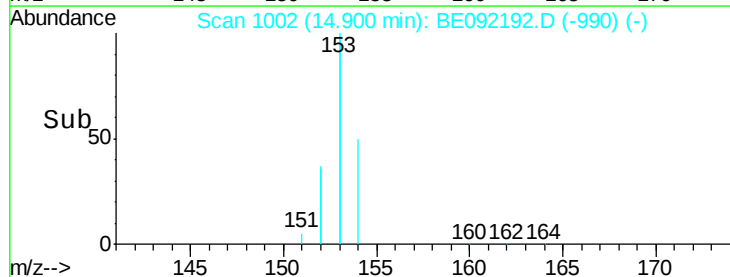
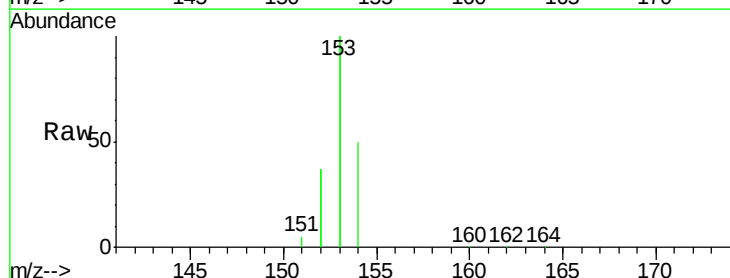
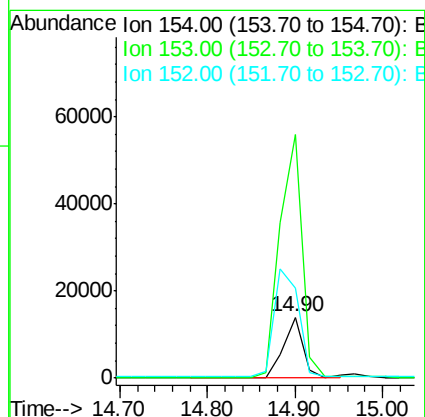
RT: 14.90 min Scan# 1002

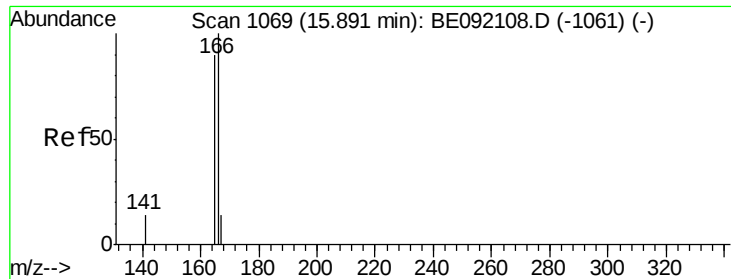
Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion:	154	Resp:	22621
Ion Ratio	Lower	Upper	
154	100		
153	441.4	345.1	517.7
152	218.2	0.0	0.0#





#15

Fluorene

Concen: 3.05 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

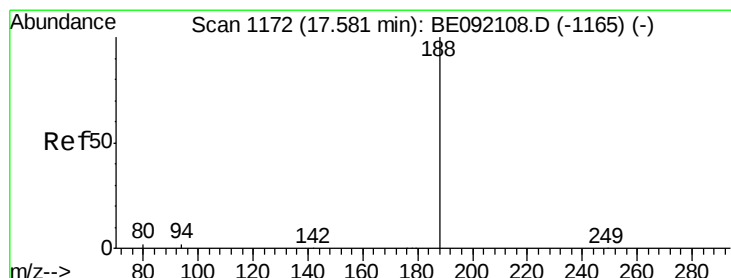
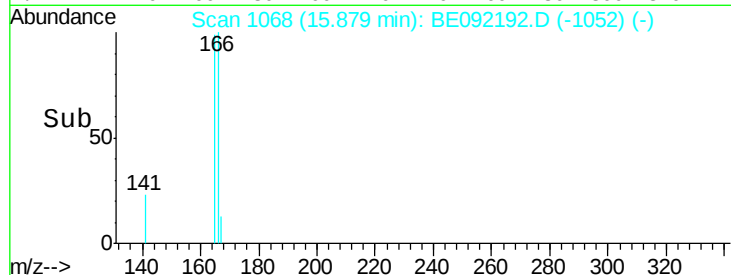
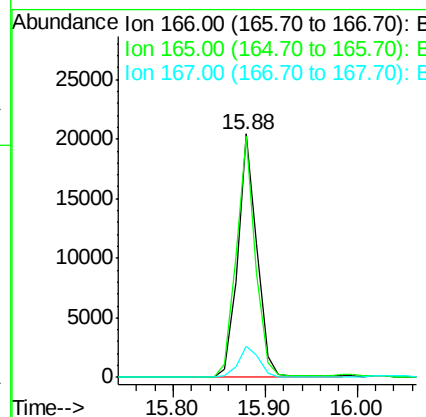
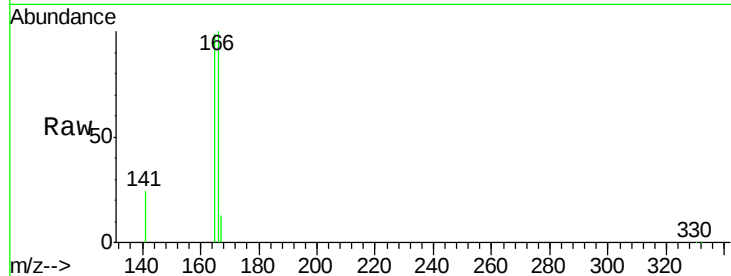
ClientSampled :

PB92633BS

Tot Ion:	166	Resp:	29475
Ion Ratio	Lower	Upper	
166	100		
165	98.1	78.6	118.0
167	13.4	11.1	16.7

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#16

Phenanthrene-d10

Concen: 5.00 ng

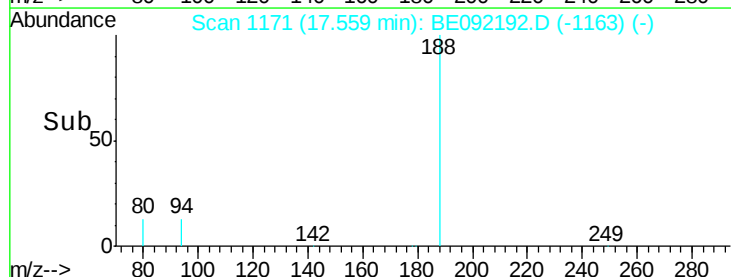
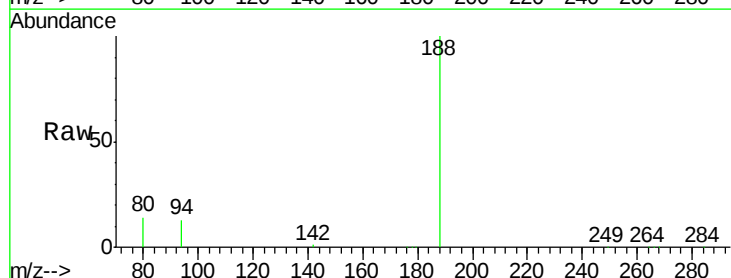
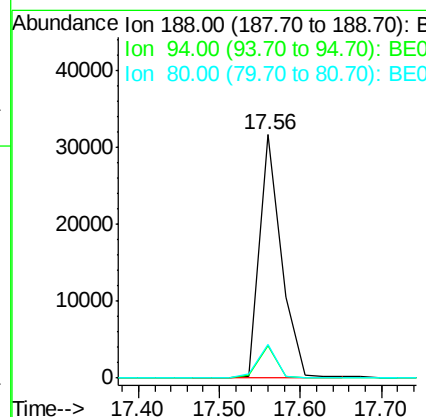
RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion:	188	Resp:	59267
Ion Ratio	Lower	Upper	
188	100		
94	13.3	3.9	5.9#
80	13.6	3.4	5.0#





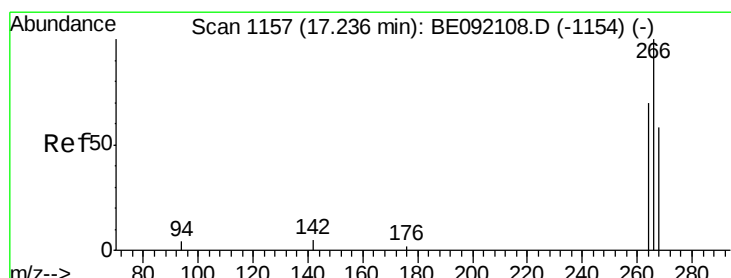
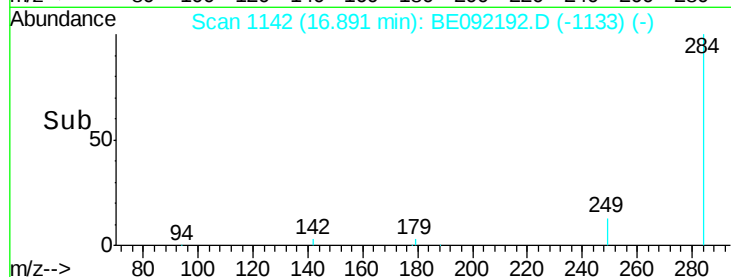
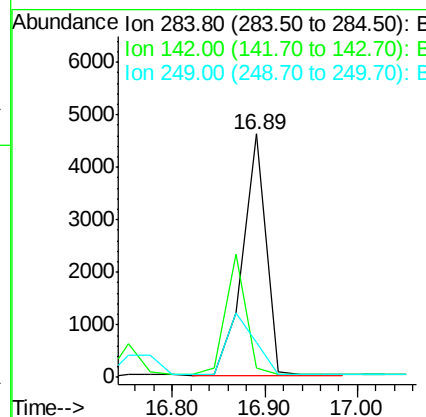
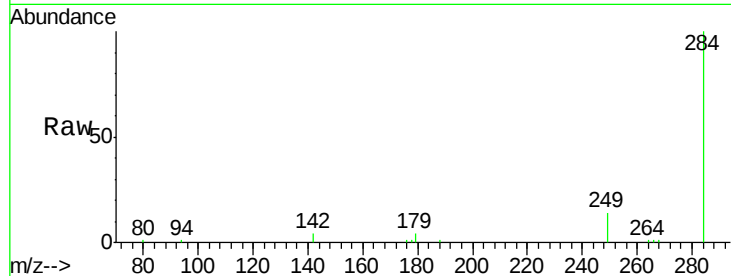
#17
Hexachlorobenzene
Concen: 2.79 ng
RT: 16.89 min Scan# 1142
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	33.3	49.9#
249	0.0	25.4	38.0#

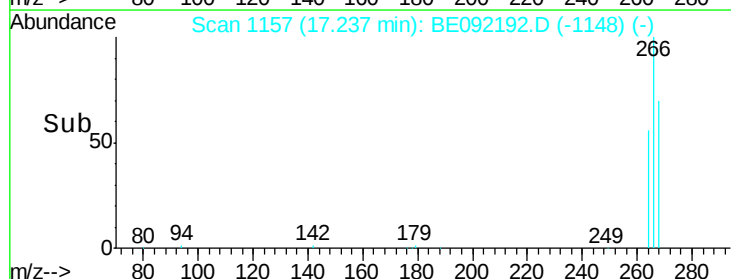
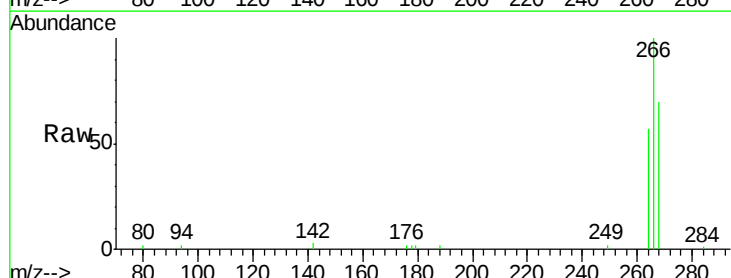
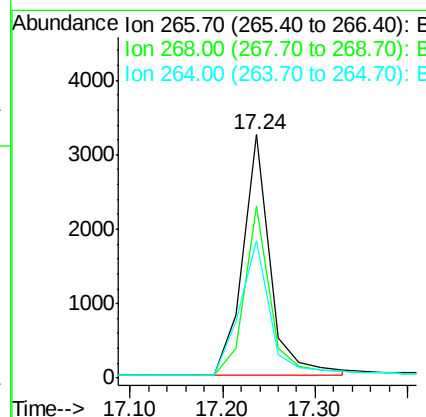
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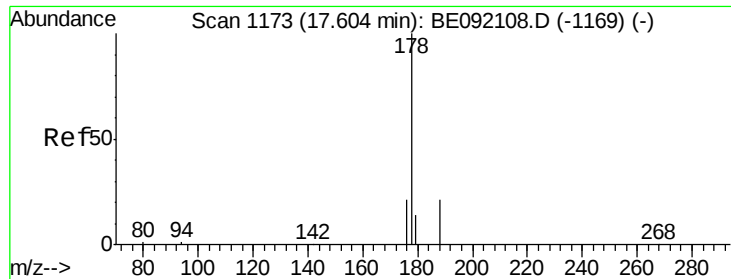
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#18
Pentachlorophenol
Concen: 6.20 ng
RT: 17.24 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Lower	Upper
266	100		
268	70.5	62.7	94.1
264	56.5	63.5	95.3#





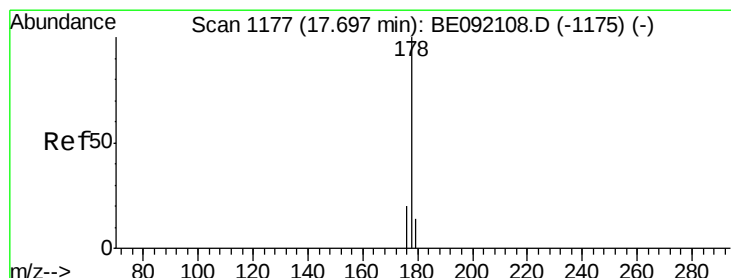
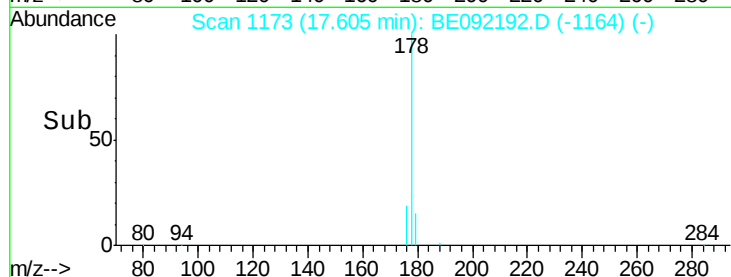
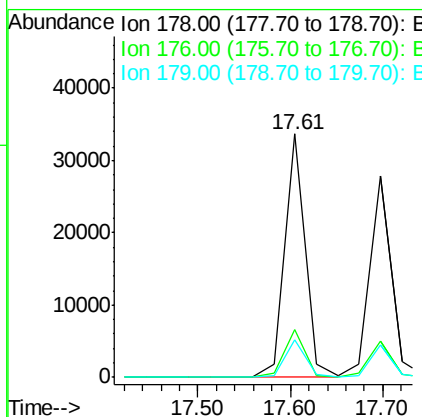
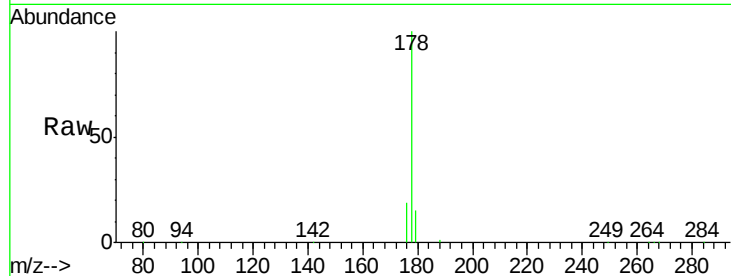
#19
Phenanthrene
Concen: 3.19 ng
RT: 17.61 min Scan# 1173
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	15.3	12.7	19.1

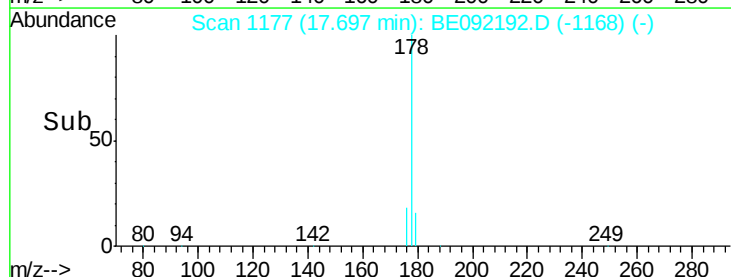
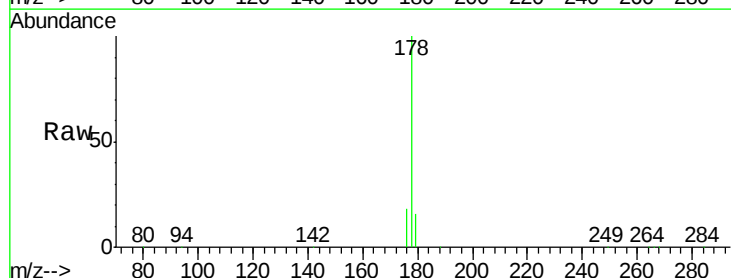
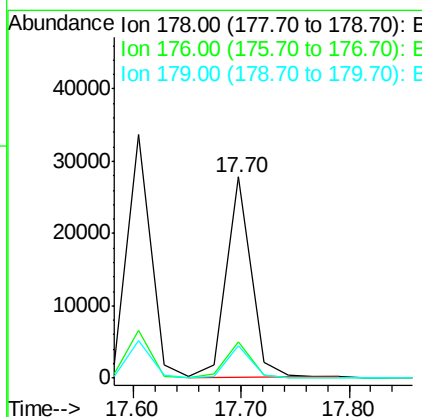
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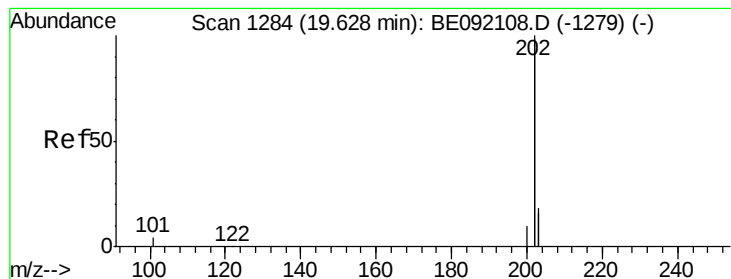
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#20
Anthracene
Concen: 2.80 ng
RT: 17.70 min Scan# 1177
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.2	22.8
179	15.8	12.2	18.4





#21

Fluoranthene

Concen: 2.67 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

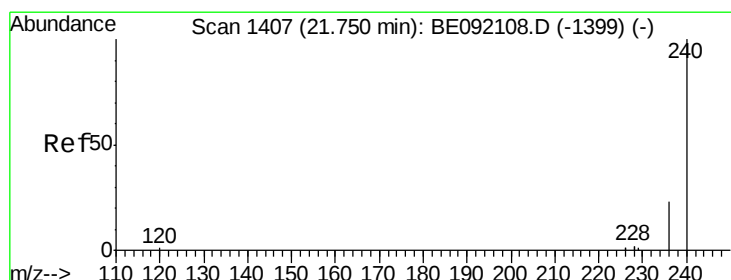
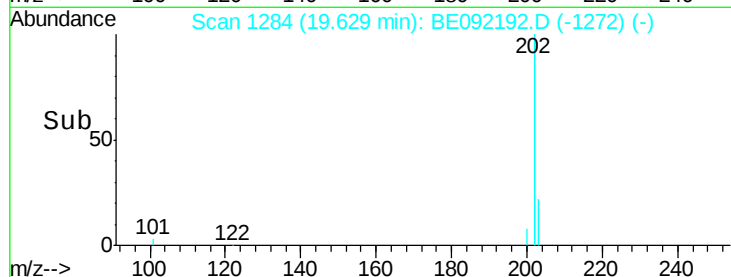
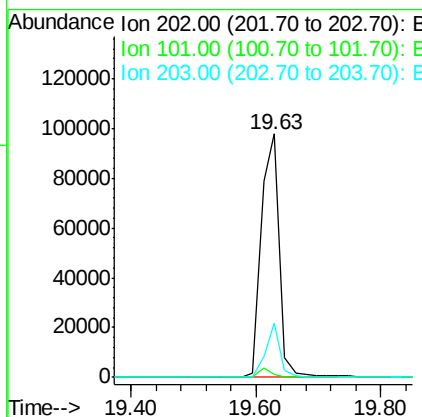
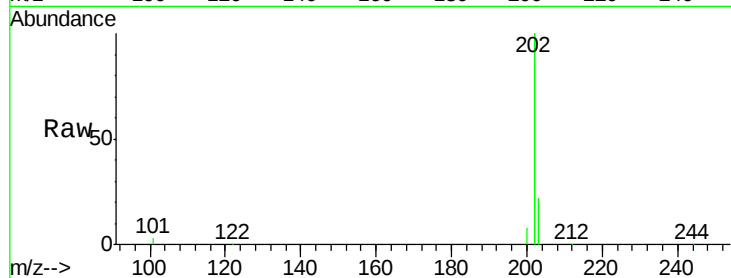
ClientSampleId :

PB92633BS

Tot Ion:	202	Resp:	193688
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.2
203	17.6	13.0	19.4

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#22

Chrysene-d12

Concen: 5.00 ng

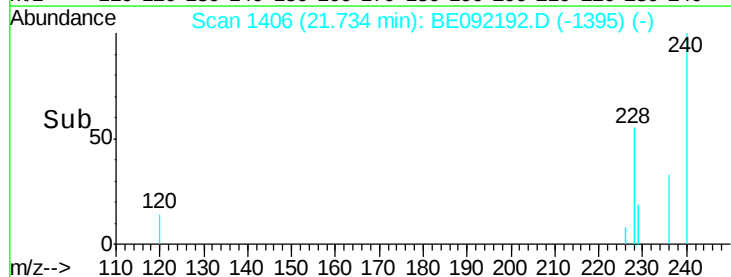
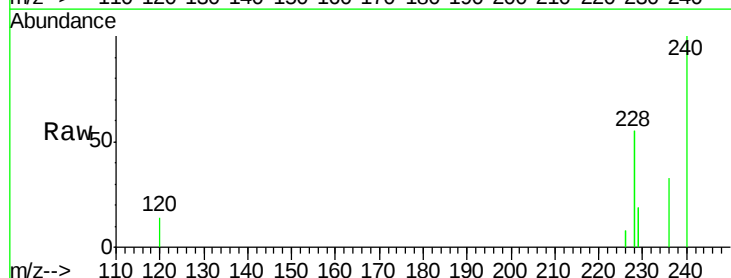
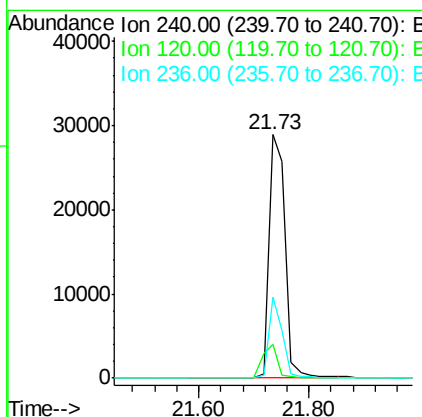
RT: 21.73 min Scan# 1406

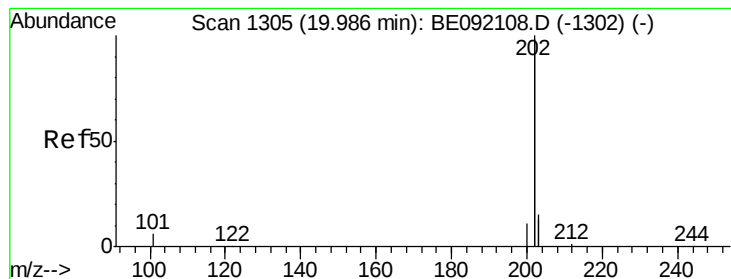
Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion:	240	Resp:	59068
Ion Ratio	Lower	Upper	
240	100		
120	13.9	0.6	1.0#
236	33.1	18.2	27.4#





#23

Pvrene

Concen: 2.80 ng

RT: 19.99 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

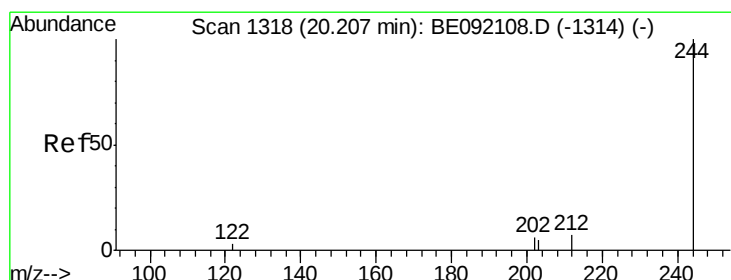
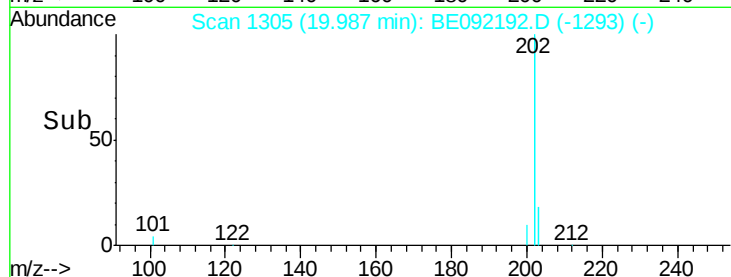
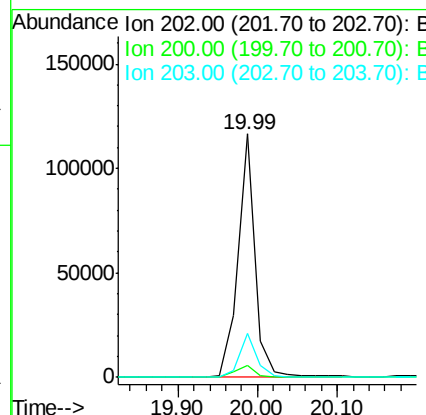
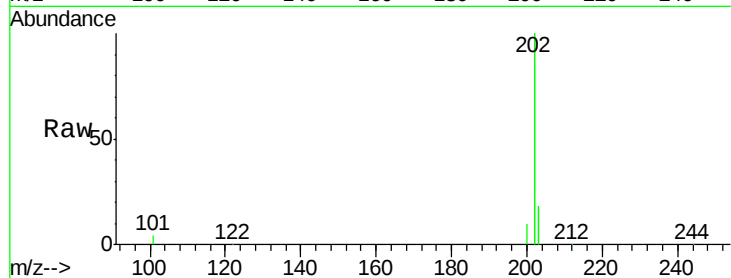
ClientSampleId :

PB92633BS

Tot Ion:	202	Resp:	173066
Ion Ratio		Lower	Upper
202	100		
200	5.3	4.4	6.6
203	18.5	13.4	20.0

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#24

Terphenyl-d14

Concen: 3.97 ng

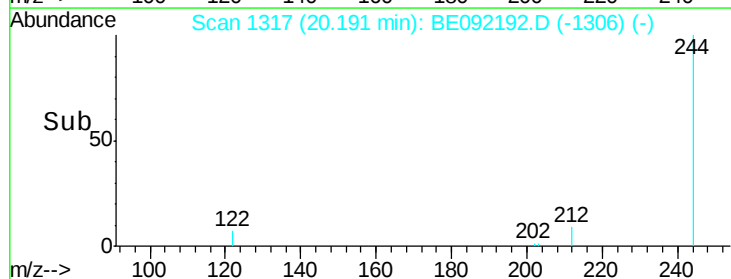
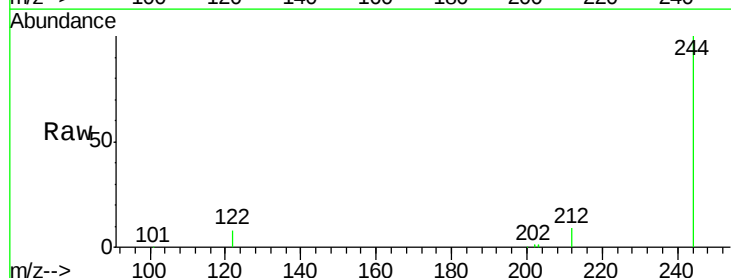
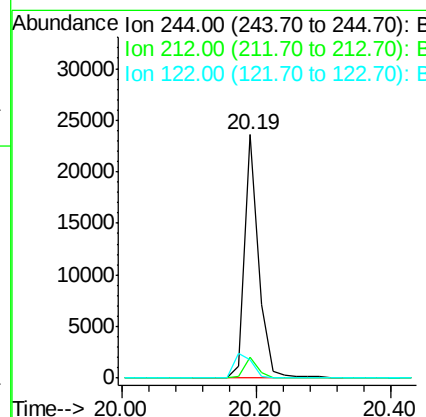
RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion:	244	Resp:	33716
Ion Ratio		Lower	Upper
244	100		
212	8.8	9.1	13.7#
122	7.5	11.0	16.4#





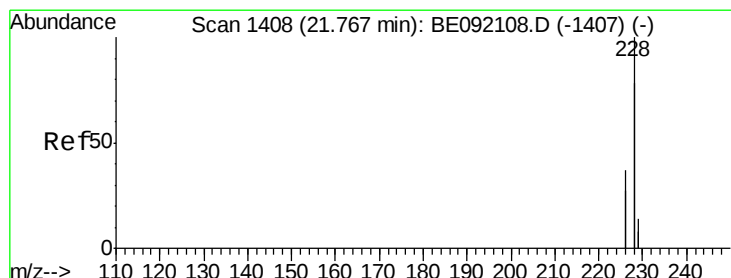
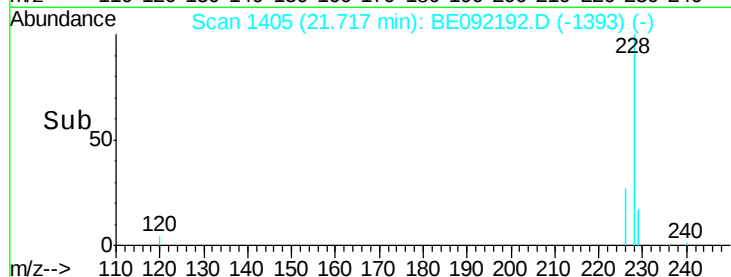
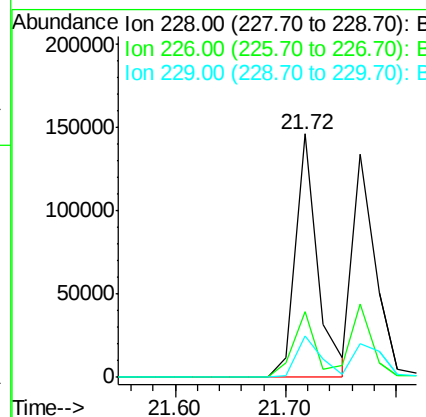
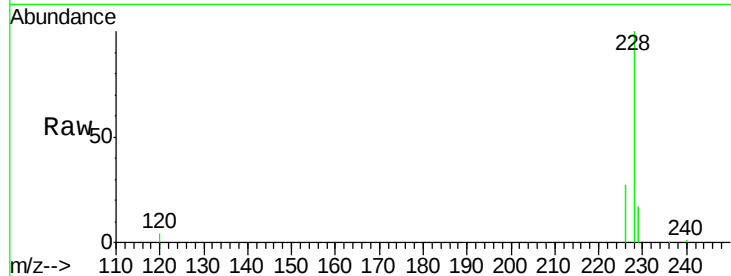
#25
Benzo(a)anthracene
Concen: 3.15 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.1	33.1
229	17.2	15.1	22.7

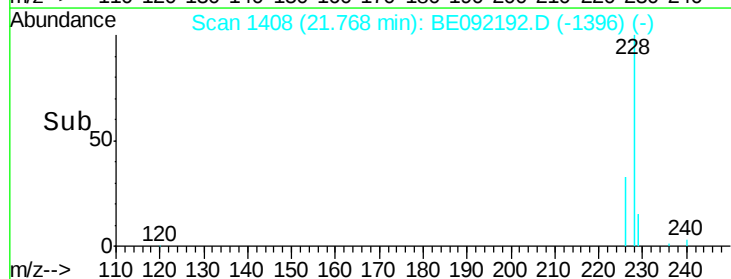
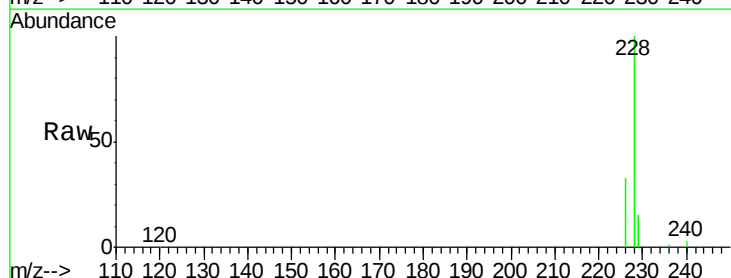
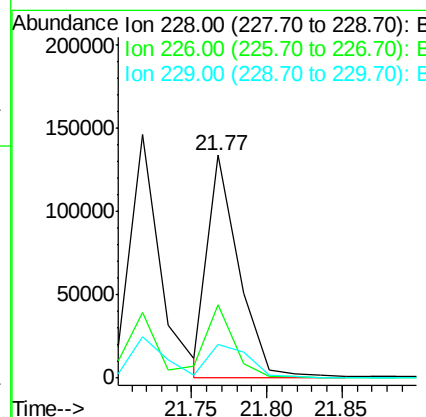
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#26
Chrysene
Concen: 3.04 ng m
RT: 21.77 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.3	33.5
229	15.3	16.9	25.3#





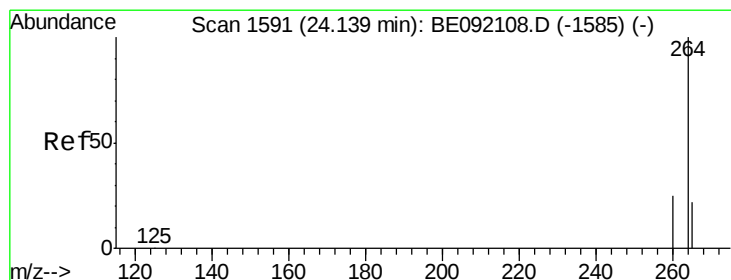
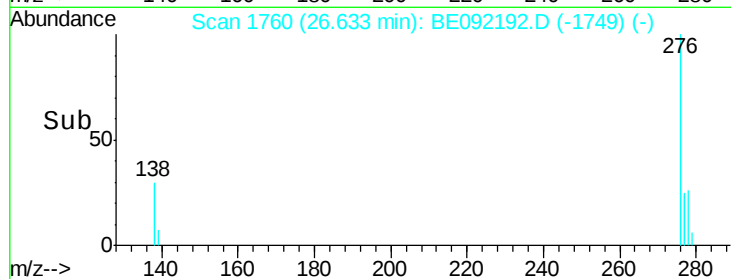
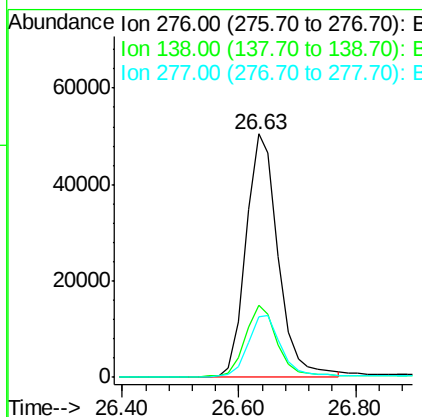
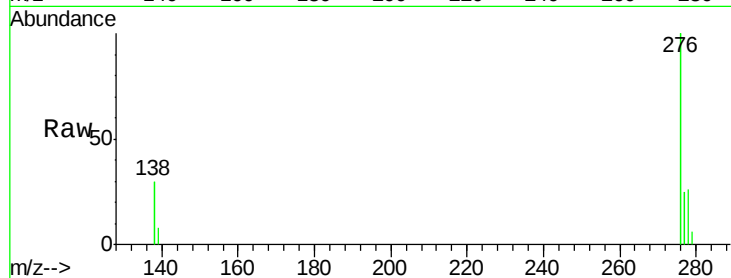
#27
Indeno(1,2,3-cd)pyrene
Concen: 2.72 ng
RT: 26.63 min Scan# 1760
Delta R.T. -0.02 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	28.9	21.2	31.8
277	25.4	19.8	29.8

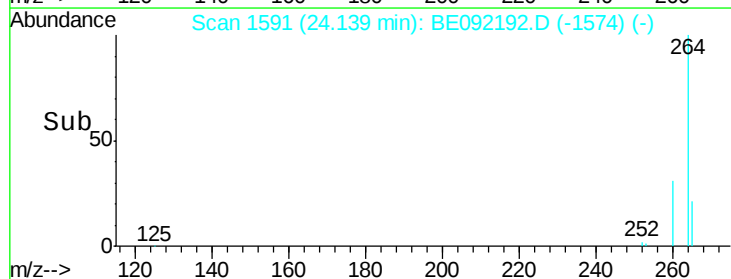
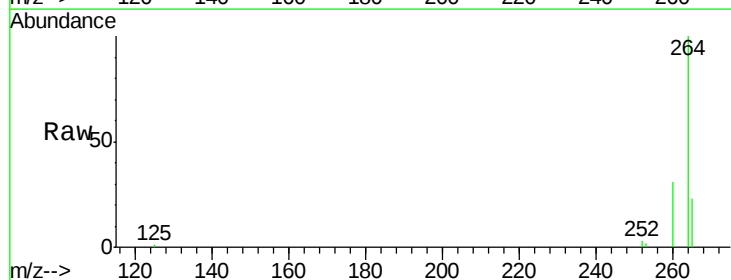
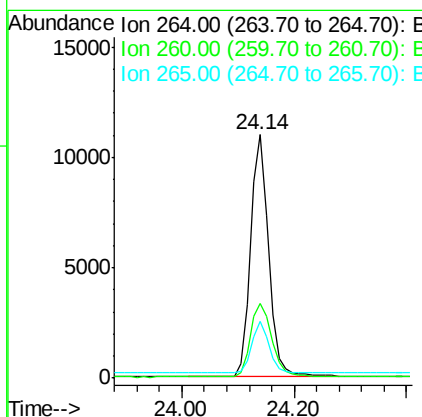
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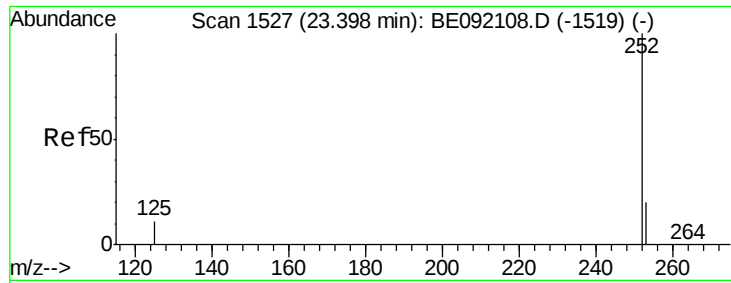
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#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	30.9	20.8	31.2
265	23.4	16.6	25.0





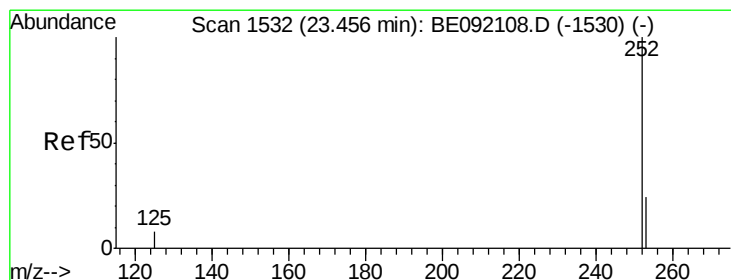
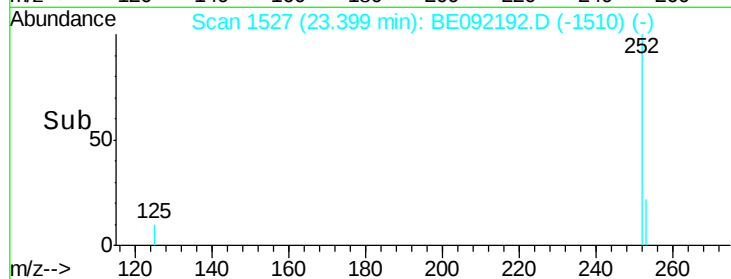
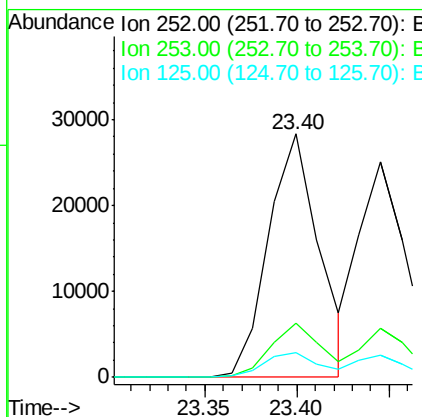
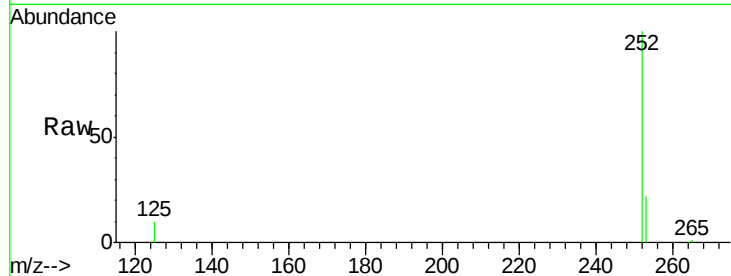
#29
Benzo(b)fluoranthene
Concen: 7.94 ng
RT: 23.40 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	10.2	10.2	15.2

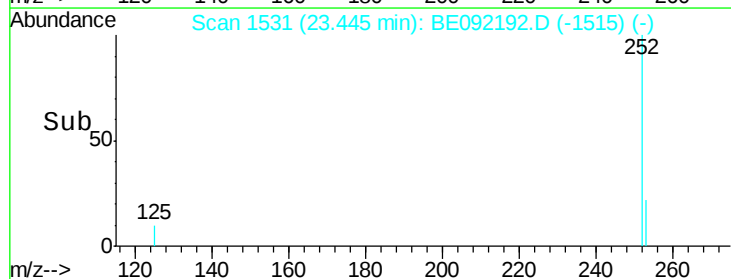
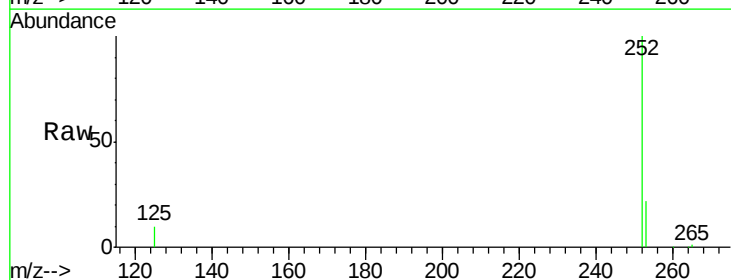
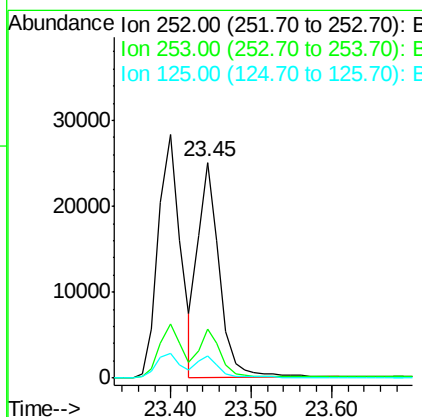
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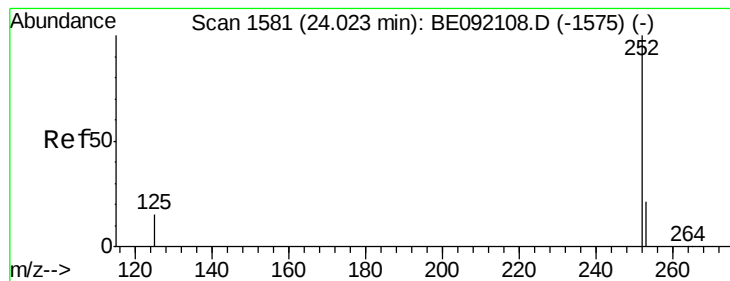
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#30
Benzo(k)fluoranthene
Concen: 7.10 ng
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092192.D
Acq: 4 Aug 2016 21:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	19.4	29.0
125	10.5	8.9	13.3





#31

Benzo(a)pyrene

Concen: 5.52 ng

RT: 24.02 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE092192.D

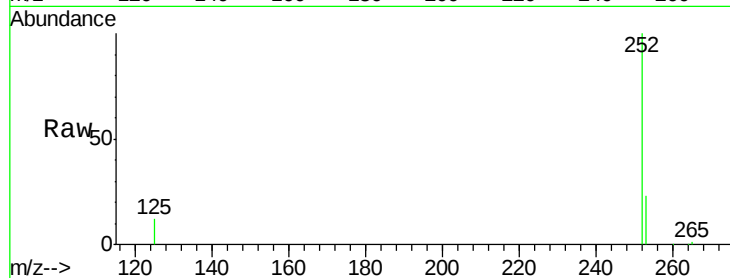
Acq: 4 Aug 2016 21:11

Instrument :

BNA_E

ClientSampleId :

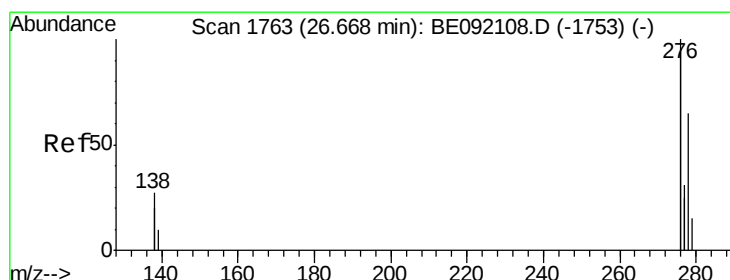
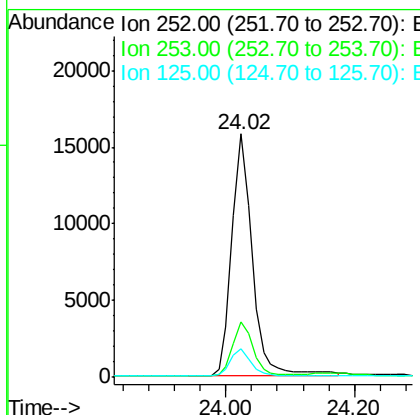
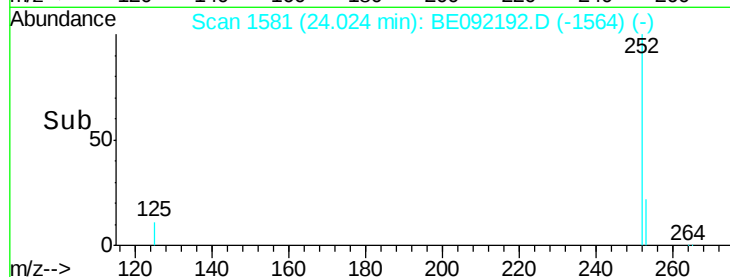
PB92633BS



Tot Ion:	252	Resp:	34647
Ion Ratio	Lower	Upper	
252	100		
253	22.6	19.8	29.8
125	11.6	10.4	15.6

Manual Integrations
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#32

Dibenzo(a,h)anthracene

Concen: 8.54 ng

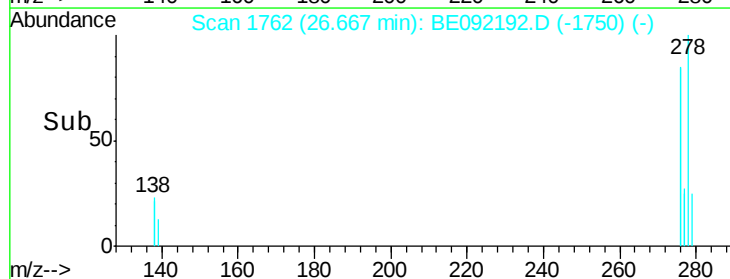
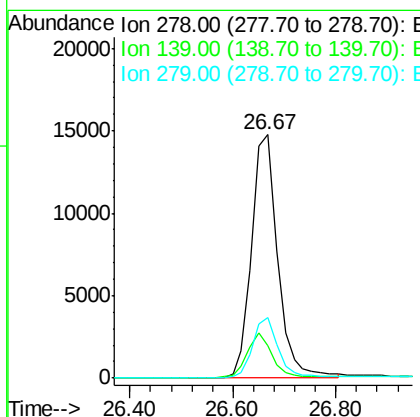
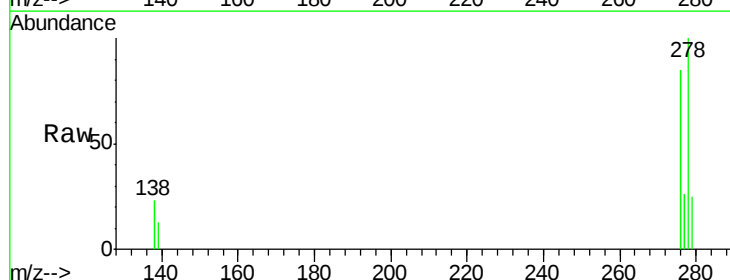
RT: 26.67 min Scan# 1762

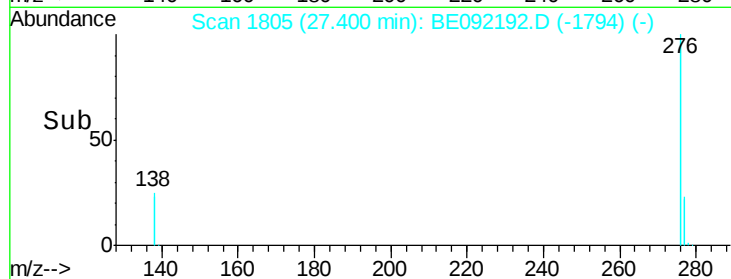
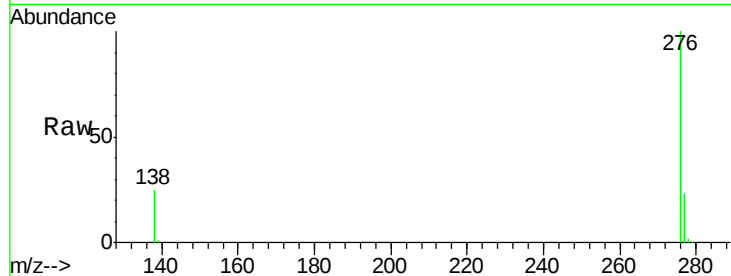
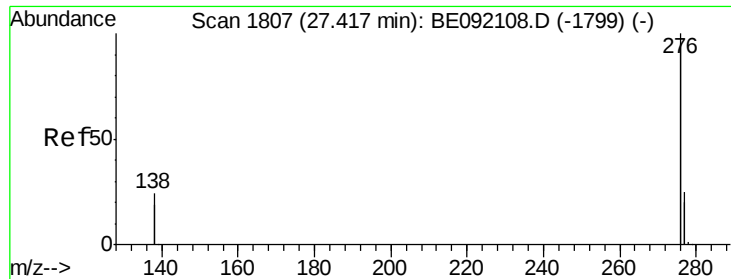
Delta R.T. -0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion:	278	Resp:	51190
Ion Ratio	Lower	Upper	
278	100		
139	13.2	16.7	25.1#
279	25.0	20.3	30.5





#33
 Benzo(a,h,i)perylene
 Concen: 6.05 ng
 RT: 27.40 min Scan# 1805
 Delta R.T. -0.02 min
 Lab File: BE092192.D
 Acq: 4 Aug 2016 21:11

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.5	29.3
138	24.7	20.8	31.2

Manual Integrations
 APPROVED

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 8/5/2016 6:58:12 PM

