

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
 Data File : BE092220.D
 Acq On : 8 Aug 2016 17:38
 Operator : UM/SJ
 Sample : PB92633BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

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Quant Time: Aug 09 03:15:17 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 08 18:55:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	11380	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	49407	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	25000	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	52399	5.00	ng	-0.02
22) Chrysene-d12	21.73	240	56921	5.00	ng	-0.02
28) Perylene-d12	24.14	264	63033	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	23903	8.18	ng	0.00
5) Phenol-d6	7.34	99	31082	7.98	ng	-0.01
7) Nitrobenzene-d5	9.34	82	14589	3.74	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	6712	8.27	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	30961	3.91	ng	0.00
24) Terphenyl-d14	20.19	244	36519	4.47	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	4611	2.98	ng	# 84
3) n-Nitrosodimethylamine	3.78	42	8188	3.83	ng	96
8) Naphthalene	11.03	128	40857	3.85	ng	95
9) 2-Methylnaphthalene	12.64	142	27590	3.93	ng	89
13) Acenaphthylene	14.54	152	165954	3.76	ng	98
14) Acenaphthene	14.90	154	25382	3.61	ng	97
15) Fluorene	15.88	166	31345	3.52	ng	100
17) Hexachlorobenzene	16.89	284	8681m	3.39	ng	
18) Pentachlorophenol	17.24	266	6649	6.92	ng	# 82
19) Phenanthrene	17.60	178	54943	3.85	ng	99
20) Anthracene	17.70	178	51553	3.70	ng	99
21) Fluoranthene	19.63	202	220885	3.45	ng	97
23) Pyrene	19.99	202	234119	3.93	ng	97
25) Benzo(a)anthracene	21.72	228	255238	4.08	ng	98
26) Chrysene	21.77	228	233808m	3.73	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	317368	4.66	ng	100
29) Benzo(b)fluoranthene	23.40	252	68333m	3.96	ng	
30) Benzo(k)fluoranthene	23.45	252	65165	3.95	ng	96
31) Benzo(a)pyrene	24.02	252	65106	4.11	ng	95
32) Dibenzo(a,h)anthracene	26.67	278	65492	4.33	ng	# 92
33) Benzo(g,h,i)perylene	27.40	276	271246	4.20	ng	96

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

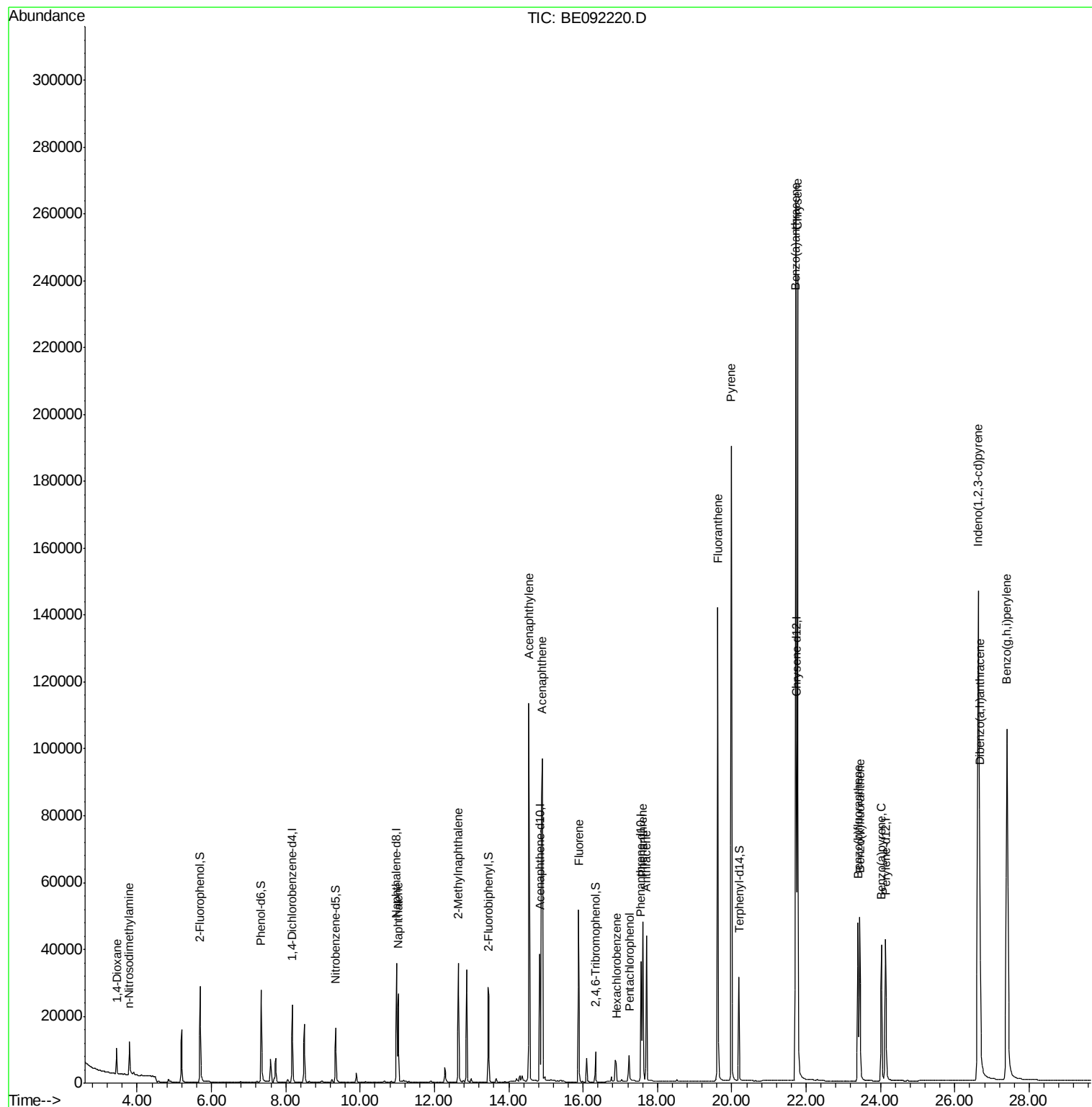
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
Data File : BE092220.D
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ALS Vial : 5 Sample Multiplier: 1

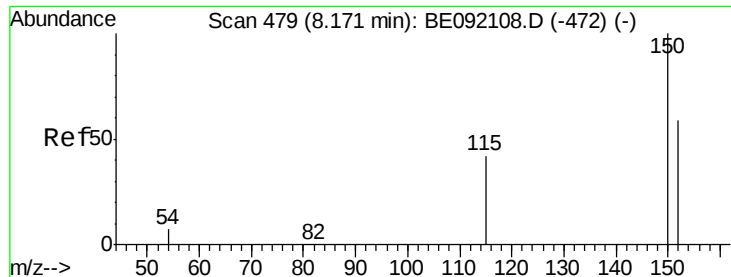
Instrument :
BNA_E
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PB92633BS

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Quant Time: Aug 09 03:15:17 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 08 18:55:30 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

ClientSampleId :

PB92633BS

Tgt Ion:152 Resp: 11380

Ion Ratio Lower Upper

152 100

150 158.5 106.0 159.0

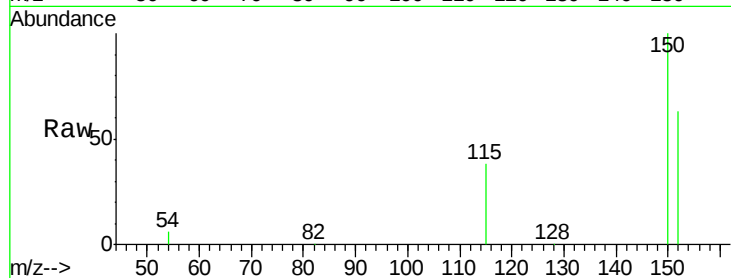
115 59.6 36.9 55.3#

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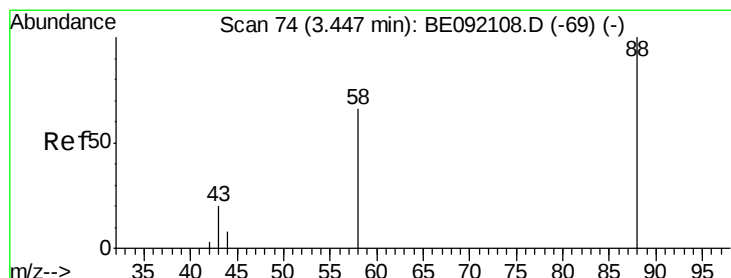
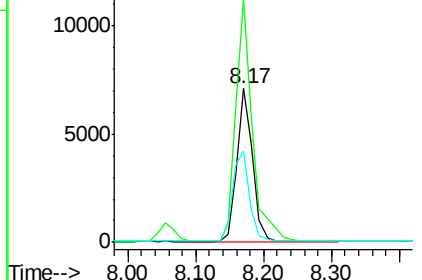
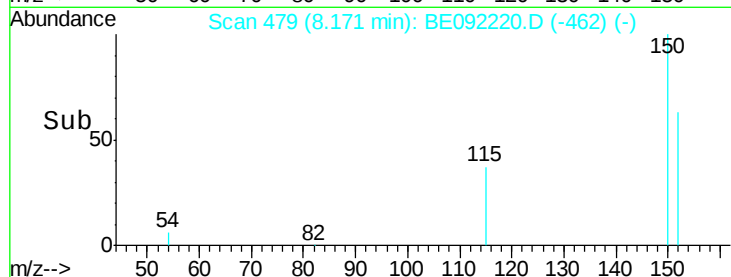
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 2.98 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

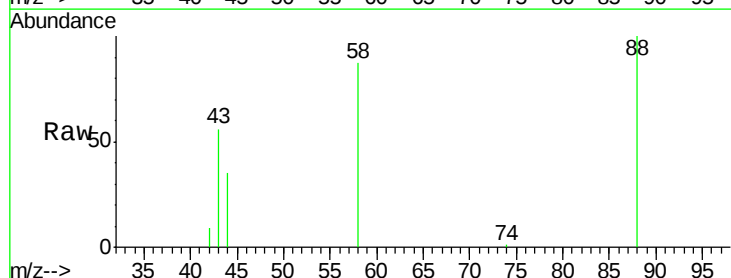
Tgt Ion: 88 Resp: 4611

Ion Ratio Lower Upper

88 100

58 89.2 62.1 93.1

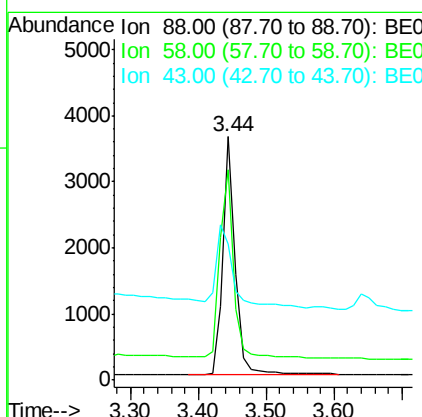
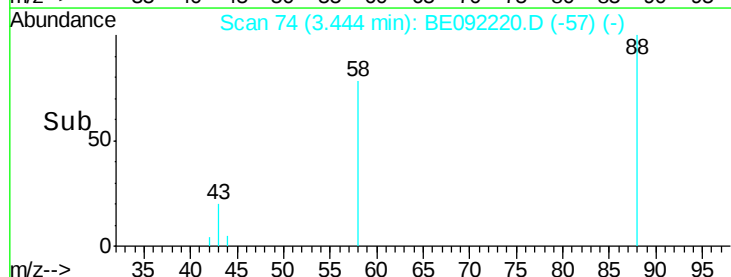
43 45.9 27.2 40.8#

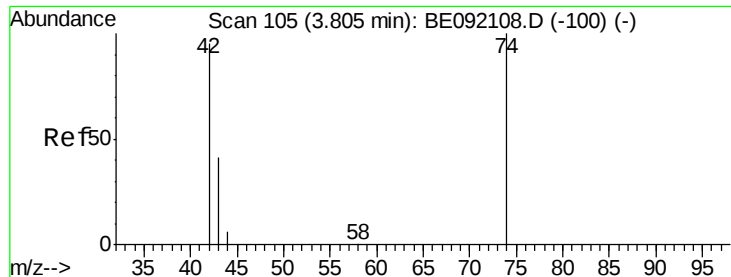


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

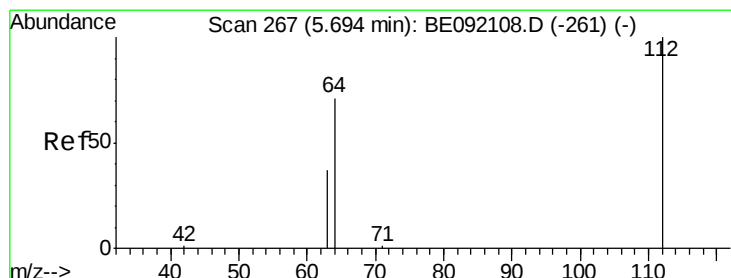
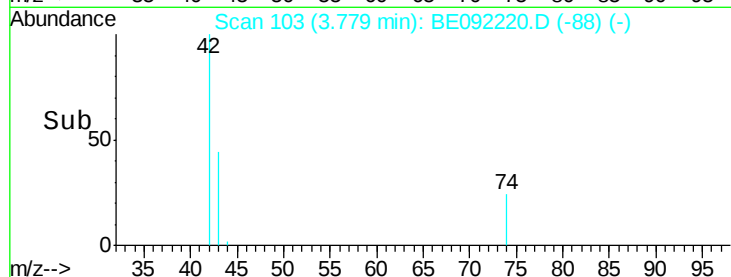
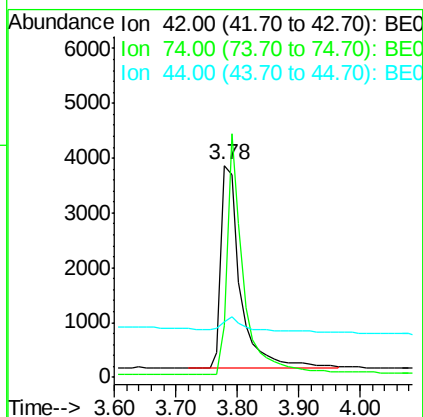
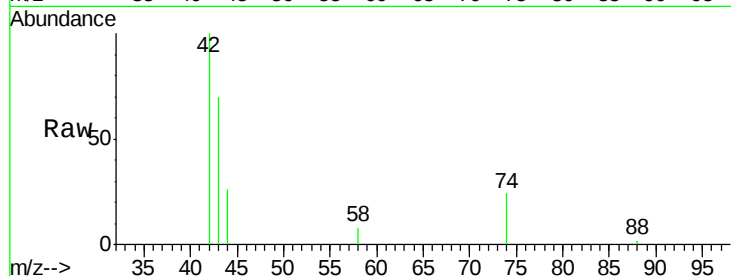
n-Nitrosodimethylamine
 Concen: 3.83 ng
 RT: 3.78 min Scan# 103
 Delta R.T. -0.03 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Tgt Ion	Ratio	Lower	Upper
42	100		
74	99.2	82.8	124.2
44	9.4	9.0	13.4

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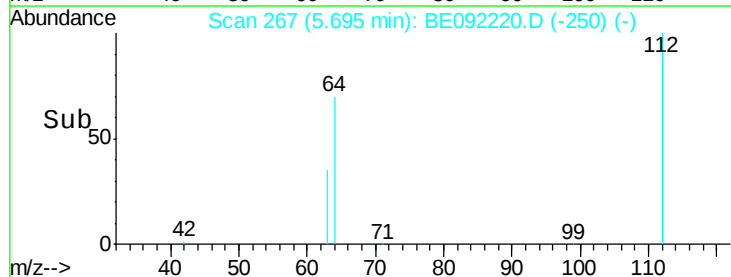
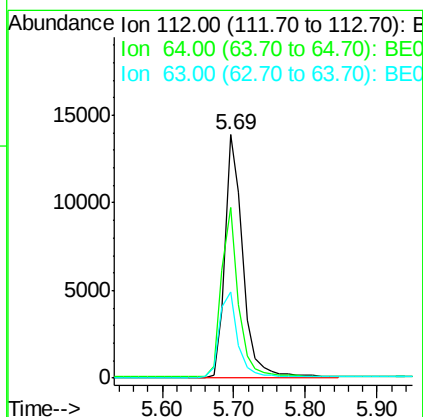
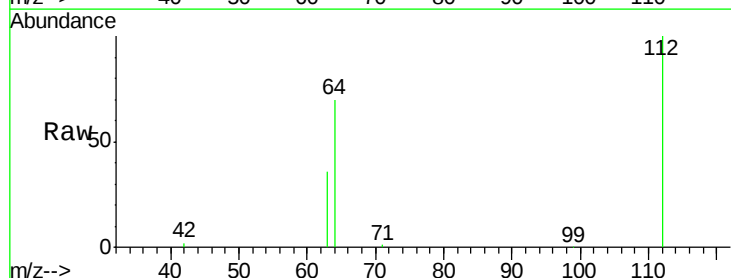
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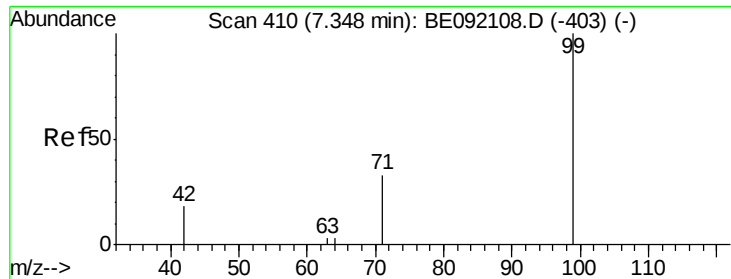


#4

2-Fluorophenol
 Concen: 8.18 ng
 RT: 5.69 min Scan# 267
 Delta R.T. 0.00 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.6	55.9	83.9
63	36.7	31.1	46.7





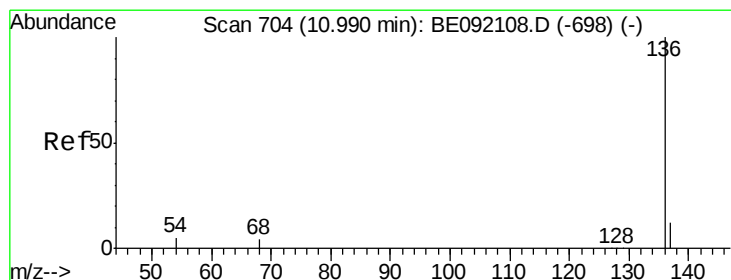
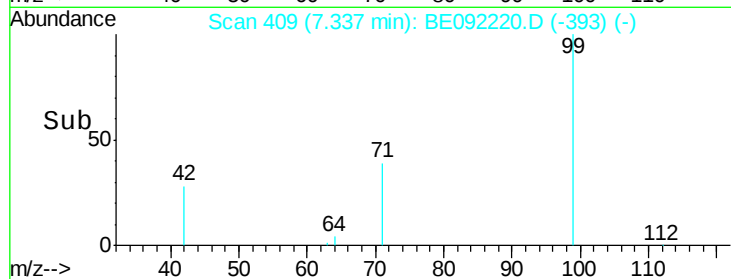
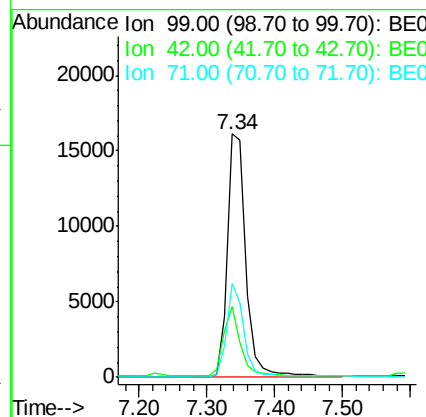
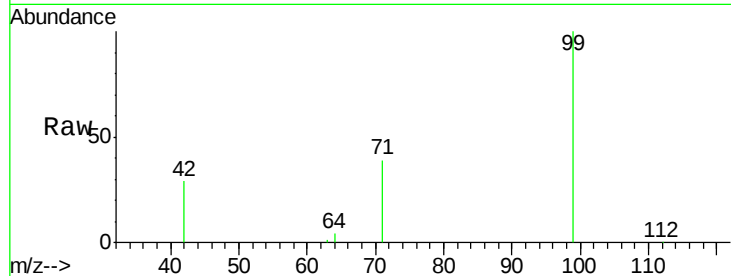
#5
 Phenol-d6
 Concen: 7.98 ng
 RT: 7.34 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.6	22.4	33.6
71	35.4	28.9	43.3

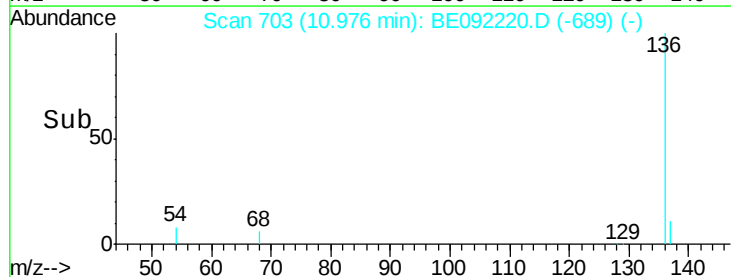
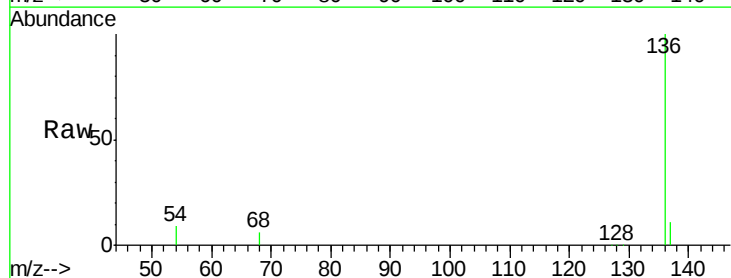
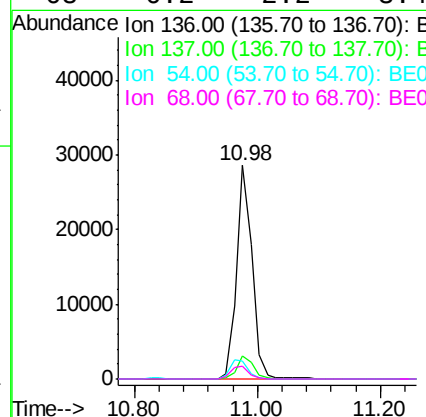
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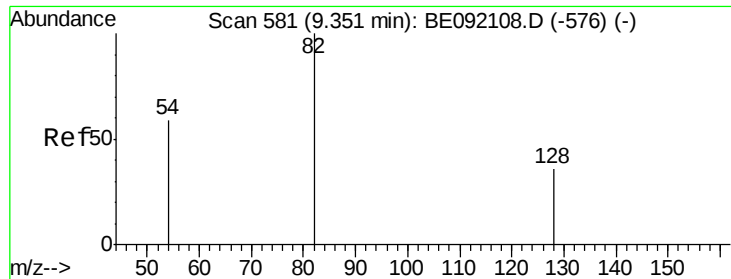
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#6
 Naphthalene-d8
 Concen: 5.00 ng
 RT: 10.98 min Scan# 703
 Delta R.T. -0.01 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.1	13.7
54	8.5	2.7	4.1#
68	6.2	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.74 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

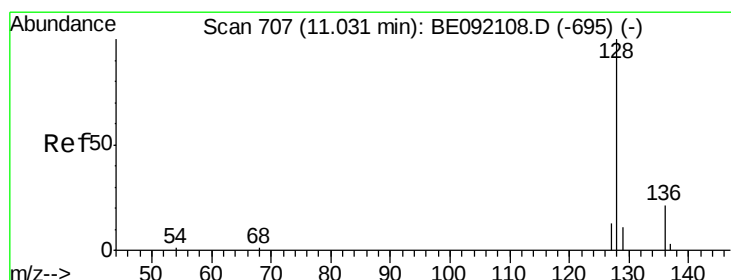
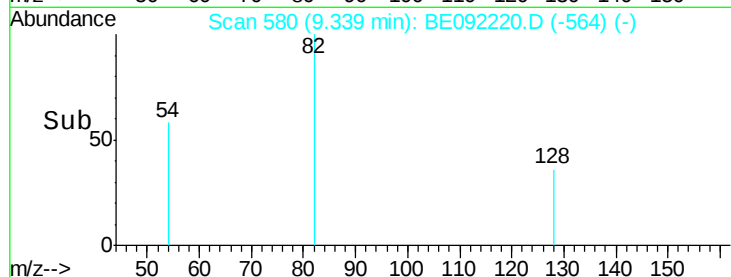
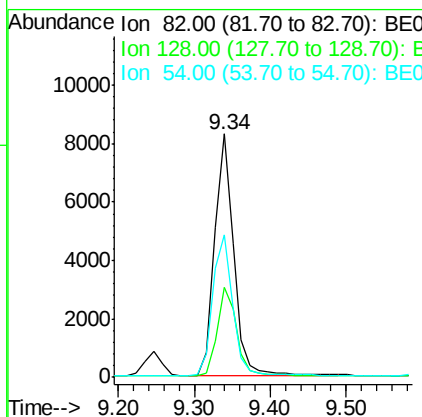
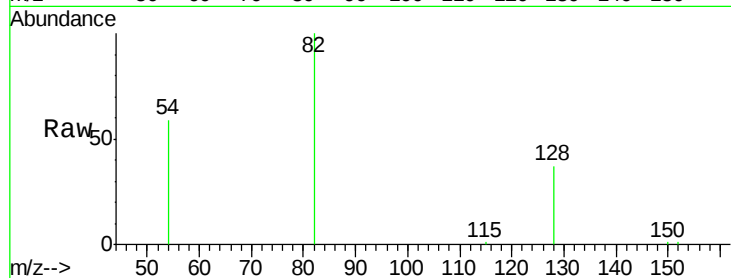
ClientSampleId :

PB92633BS

Tgt Ion:	82	Resp:	14589
Ion Ratio	Lower	Upper	
82	100		
128	36.9	33.0	49.4
54	58.8	42.6	63.8

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#8

Naphthalene

Concen: 3.85 ng

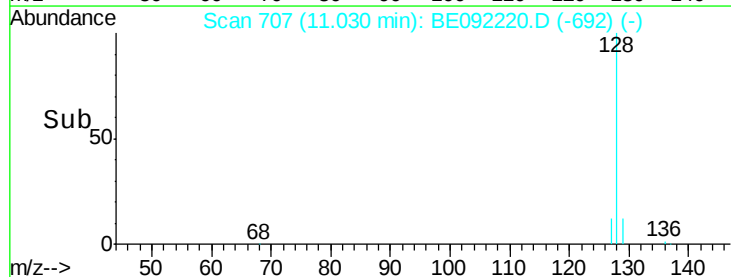
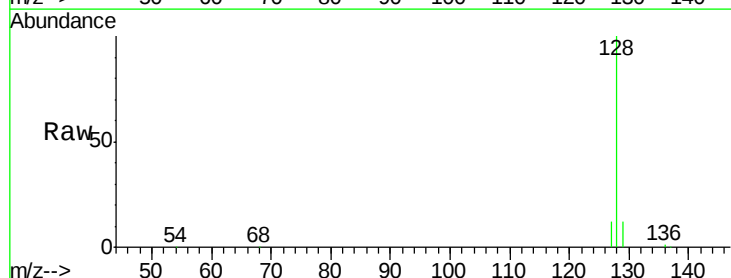
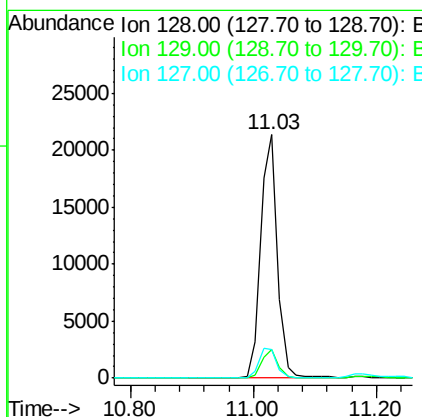
RT: 11.03 min Scan# 707

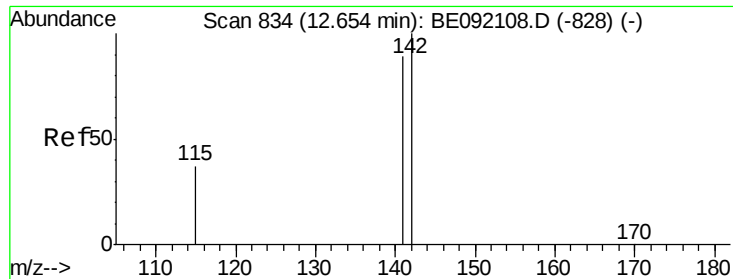
Delta R.T. -0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Tgt Ion:	128	Resp:	40857
Ion Ratio	Lower	Upper	
128	100		
129	11.8	11.1	16.7
127	11.9	11.3	16.9





#9

2-Methylnaphthalene

Concen: 3.93 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

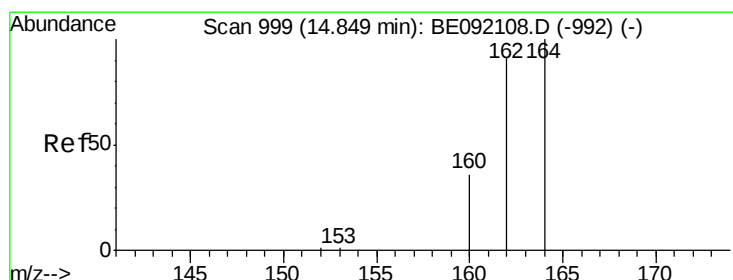
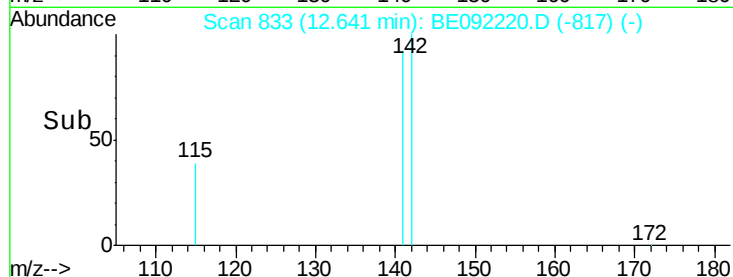
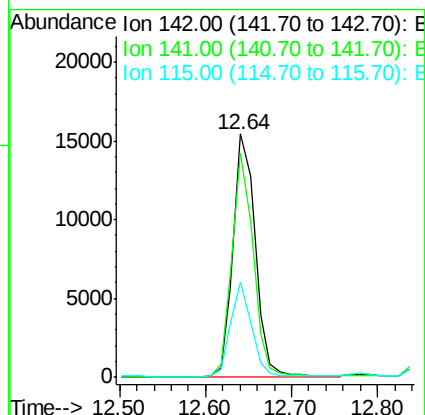
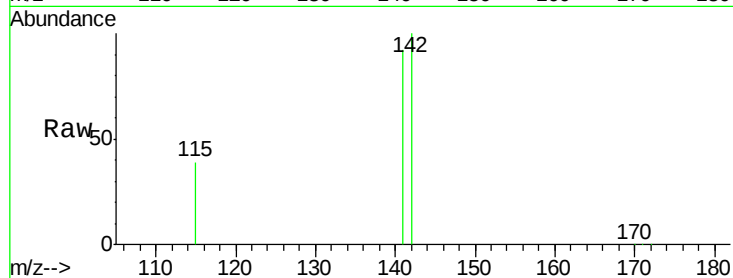
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Tgt Ion:	142	Resp:	27590
Ion Ratio	Lower	Upper	
142	100		
141	92.3	65.1	97.7
115	39.2	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

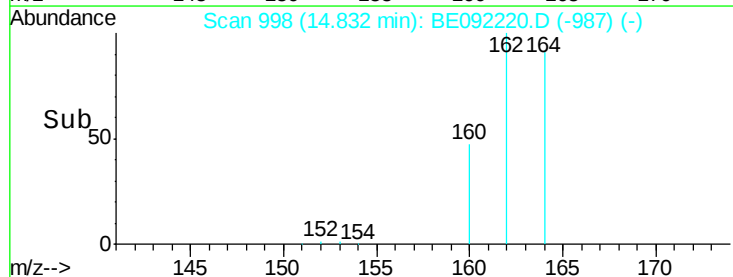
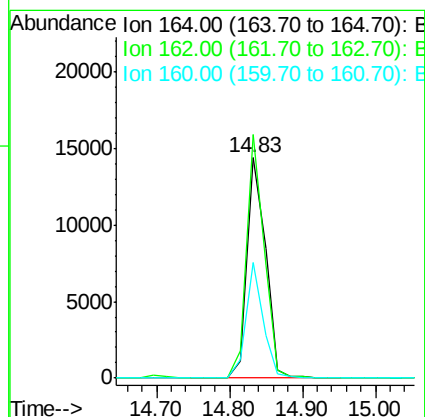
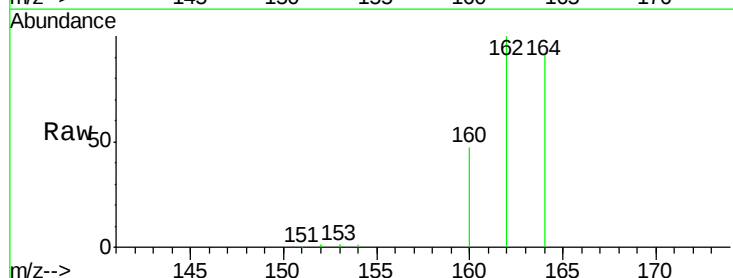
RT: 14.83 min Scan# 998

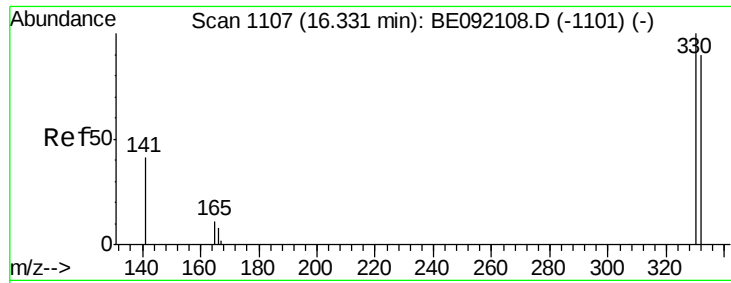
Delta R.T. -0.02 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

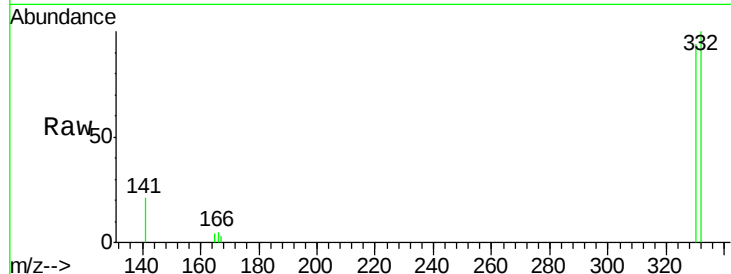
Tgt Ion:	164	Resp:	25000
Ion Ratio	Lower	Upper	
164	100		
162	110.4	69.5	104.3#
160	52.4	27.6	41.4#





#11
 2,4,6-Tribromophenol
 Concen: 8.27 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

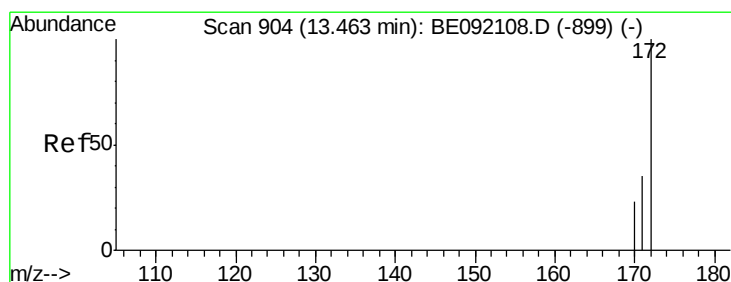
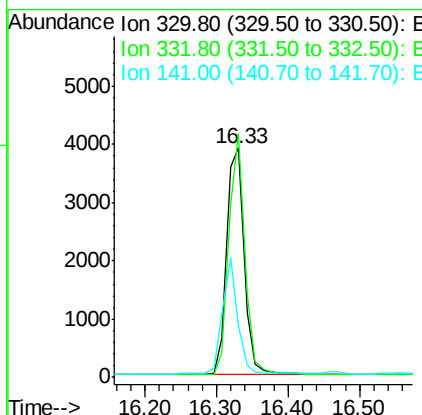
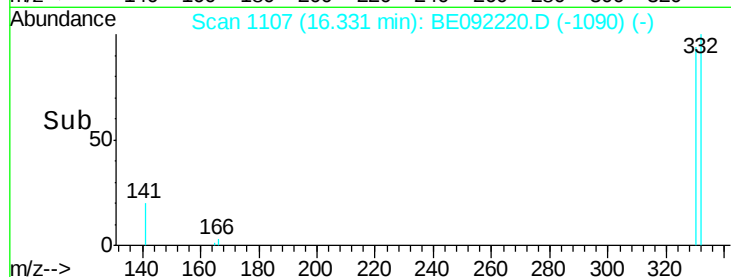
Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS



Tgt Ion: 330 Resp: 6712
 Ion Ratio Lower Upper
 330 100
 332 96.9 74.2 111.4
 141 44.7 139.8 209.8#

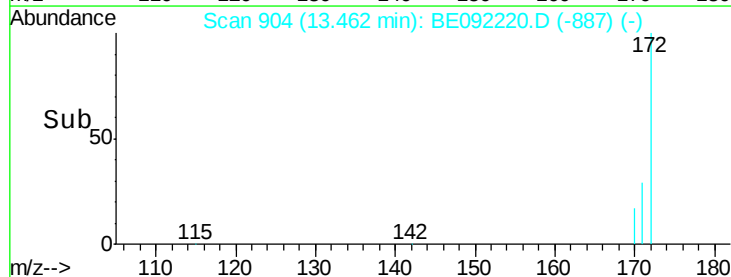
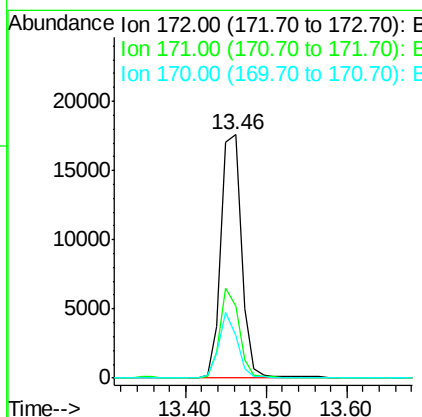
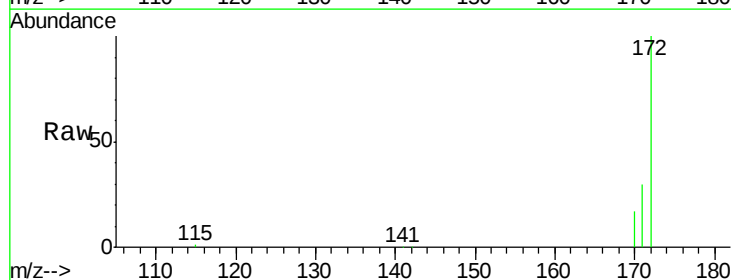
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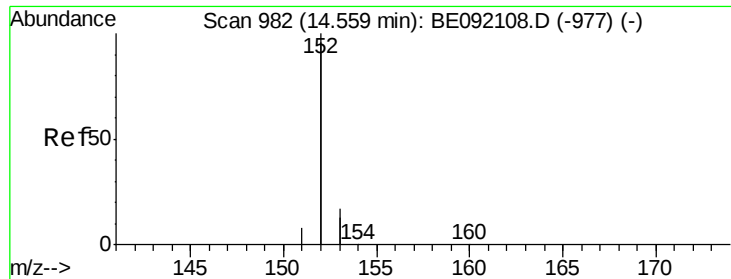
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#12
 2-Fluorobiphenyl
 Concen: 3.91 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Tgt Ion: 172 Resp: 30961
 Ion Ratio Lower Upper
 172 100
 171 29.7 30.3 45.5#
 170 17.5 21.6 32.4#





#13

Acenaphthylene

Concen: 3.76 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

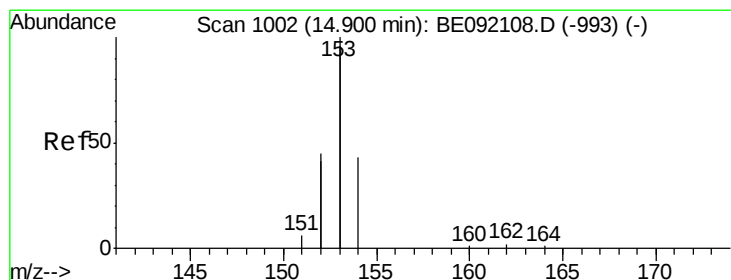
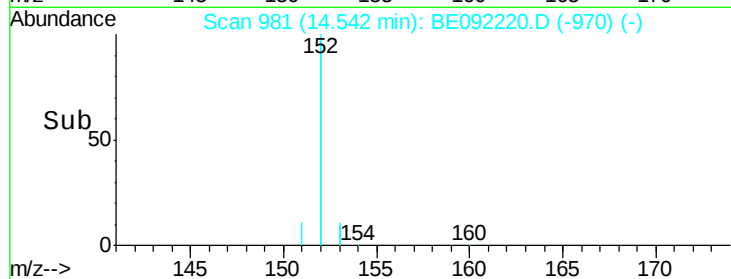
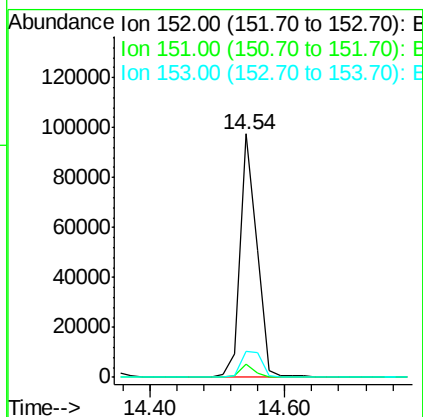
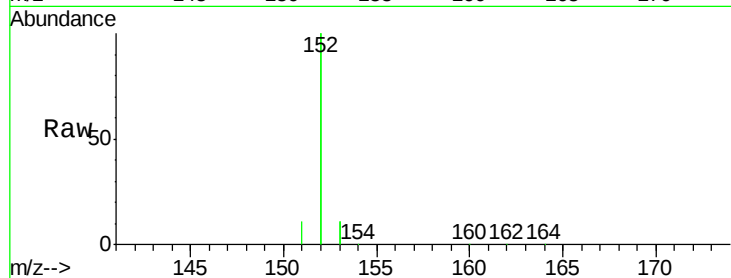
ClientSampleId :

PB92633BS

Tgt Ion:	152	Resp:	165954
Ion Ratio	Lower	Upper	
152	100		
151	4.8	4.0	6.0
153	13.1	9.6	14.4

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#14

Acenaphthene

Concen: 3.61 ng

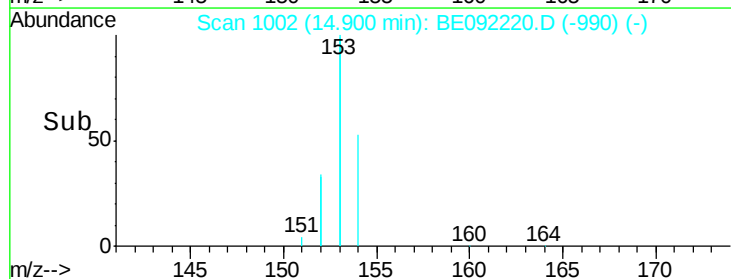
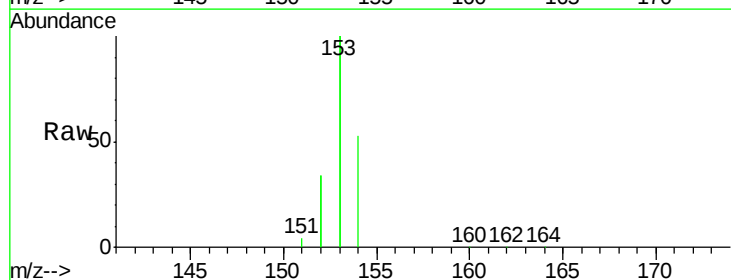
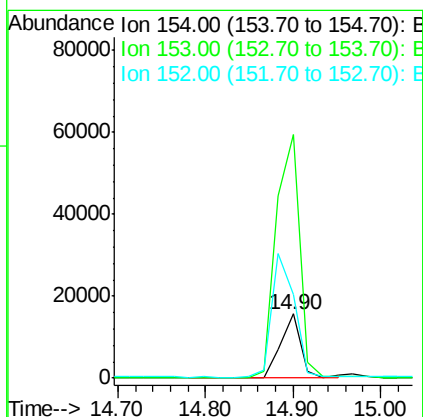
RT: 14.90 min Scan# 1002

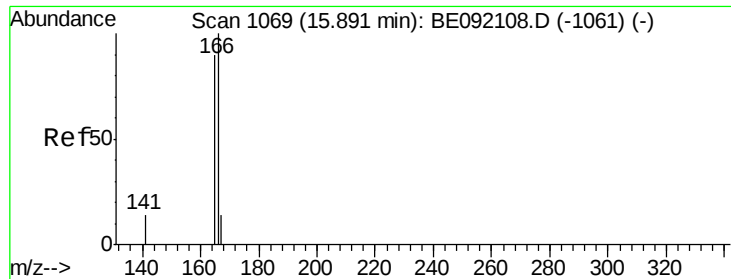
Delta R.T. 0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Tgt Ion:	154	Resp:	25382
Ion Ratio	Lower	Upper	
154	100		
153	441.0	345.1	517.7
152	215.9	176.0	264.0





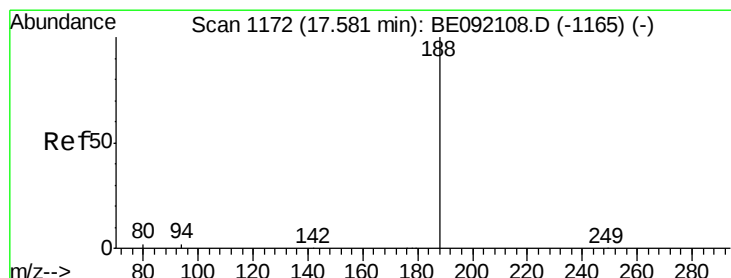
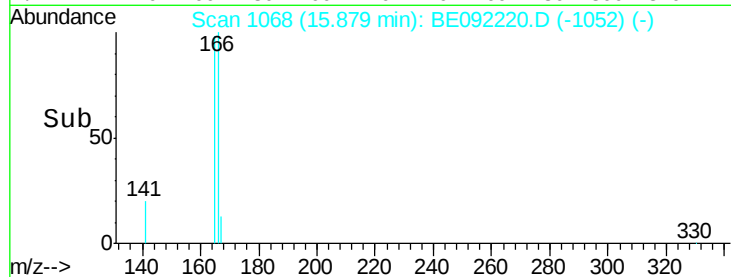
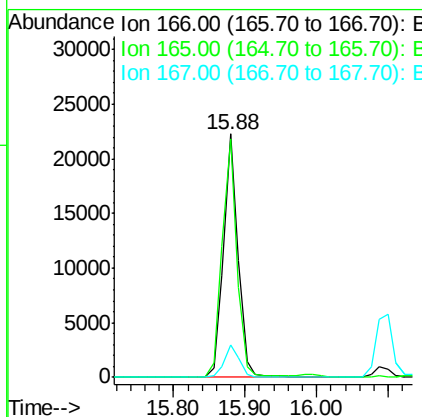
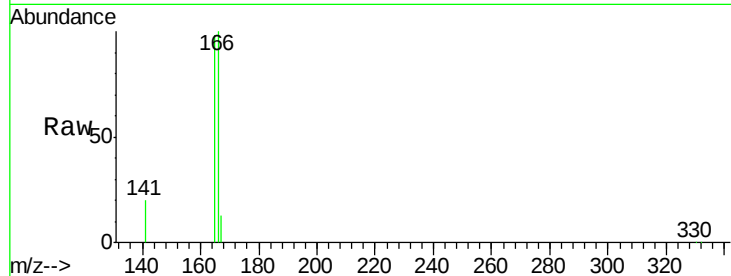
#15
Fluorene
 Concen: 3.52 ng
 RT: 15.88 min Scan# 1068
 Delta R.T. -0.01 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.6	118.0
167	13.5	11.1	16.7

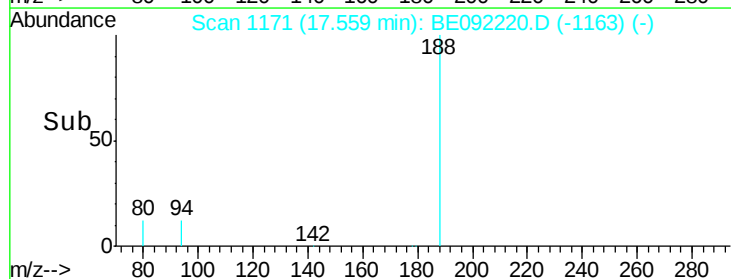
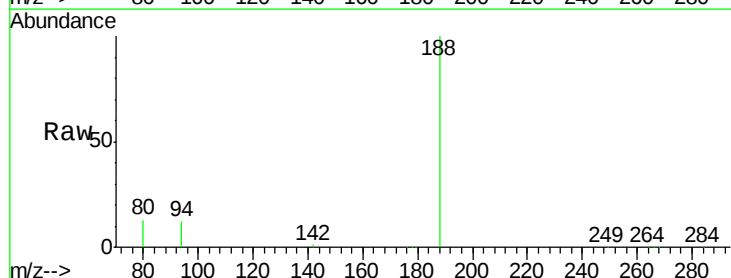
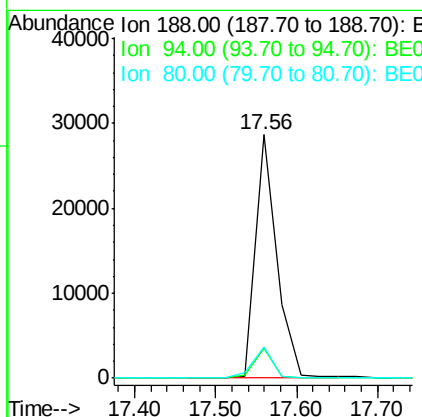
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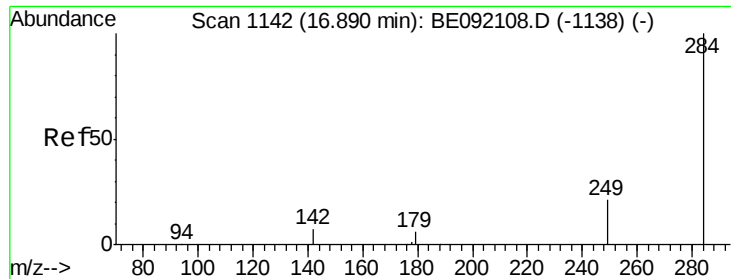
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#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1171
 Delta R.T. -0.02 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.3	3.9	5.9#
80	12.6	3.4	5.0#





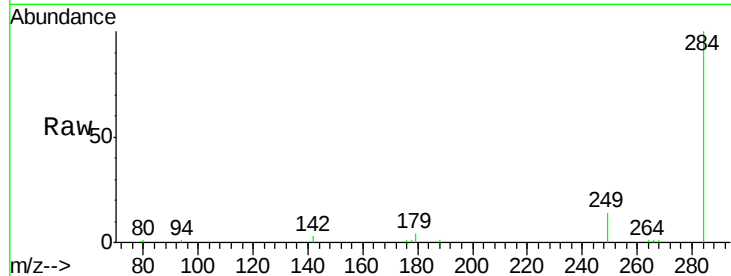
#17
Hexachlorobenzene
Concen: 3.39 ng m
RT: 16.89 min Scan# 1142
Delta R.T. 0.00 min
Lab File: BE092220.D
Acq: 8 Aug 2016 17:38

Instrument :
BNA_E
ClientSampleId :
PB92633BS

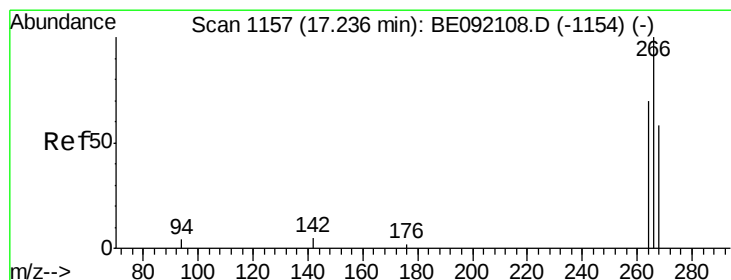
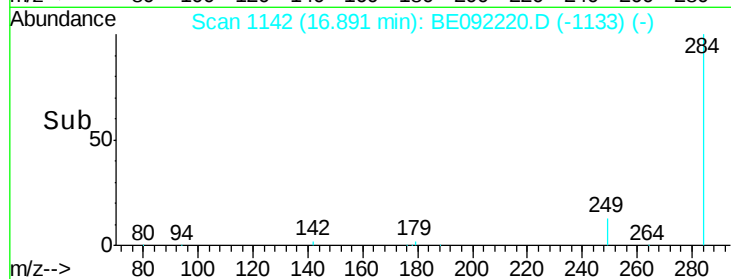
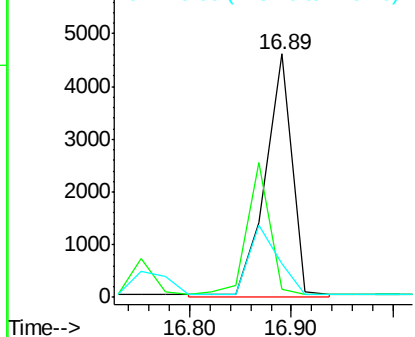
Tgt Ion	Ratio	Resp	Lower	Upper
284	100	8681		
142	0.0	33.3	49.9#	
249	0.0	25.4	38.0#	

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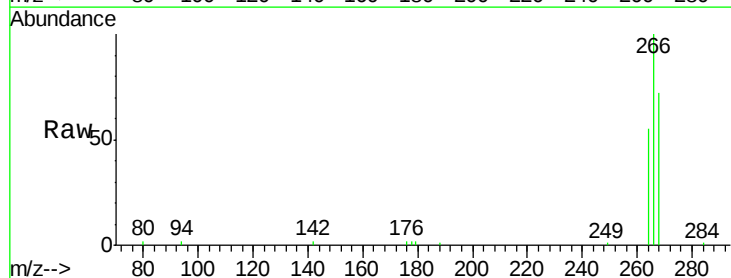


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

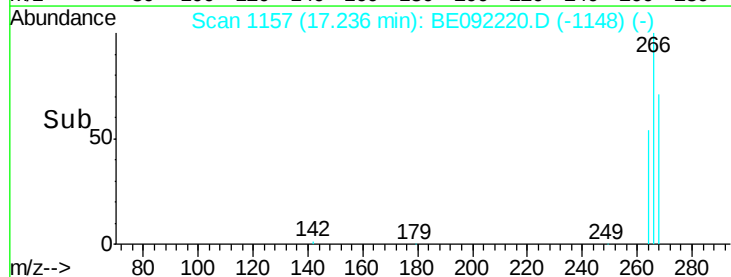
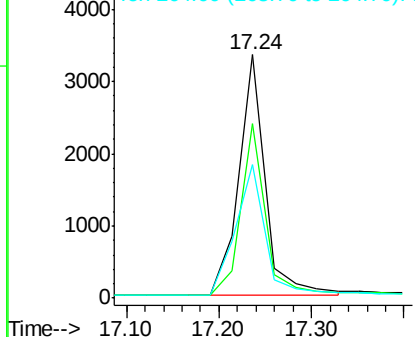


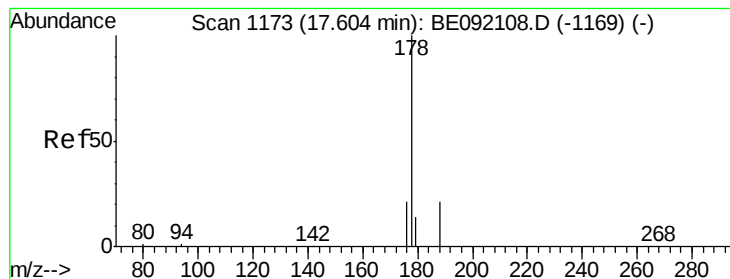
#18
Pentachlorophenol
Concen: 6.92 ng
RT: 17.24 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BE092220.D
Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	6649		
268	71.9	62.7	94.1	
264	54.6	63.5	95.3#	



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 3.85 ng

RT: 17.60 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

ClientSampleId :

PB92633BS

Tgt Ion:178 Resp: 54943

Ion Ratio Lower Upper

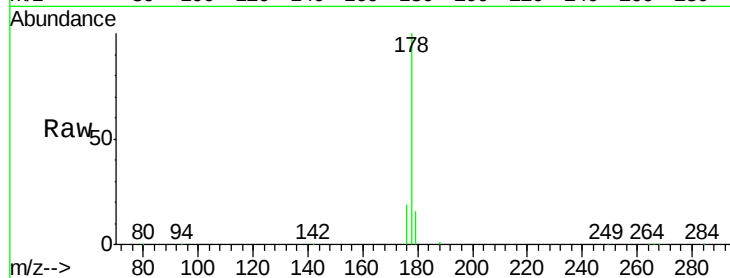
178 100

176 19.1 15.4 23.0

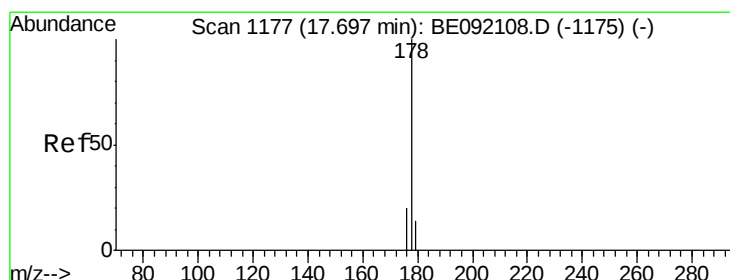
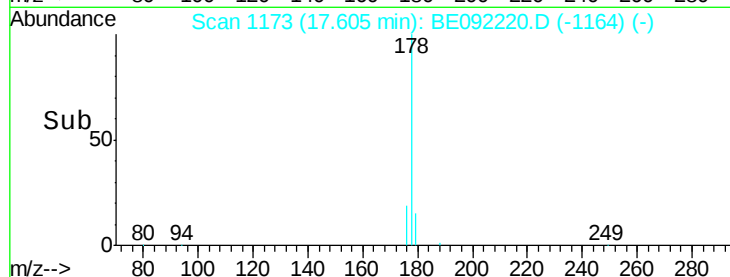
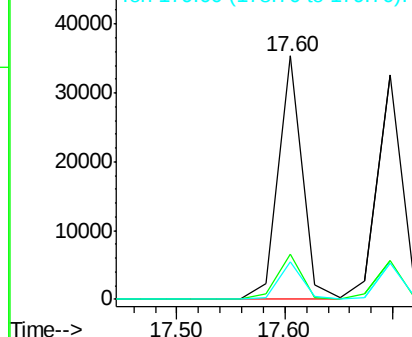
179 15.4 12.7 19.1

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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



#20

Anthracene

Concen: 3.70 ng

RT: 17.70 min Scan# 1177

Delta R.T. 0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Tgt Ion:178 Resp: 51553

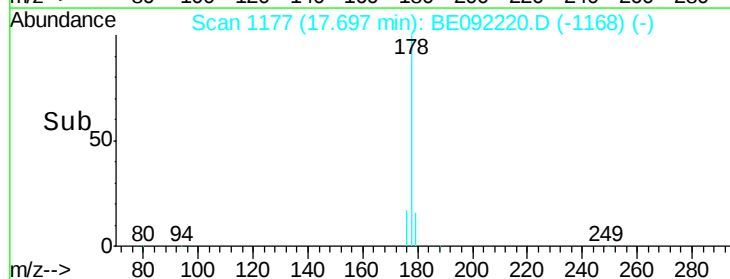
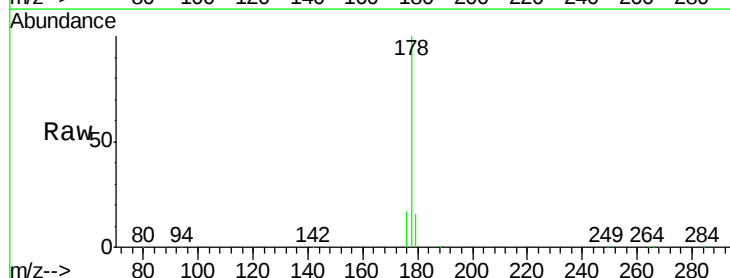
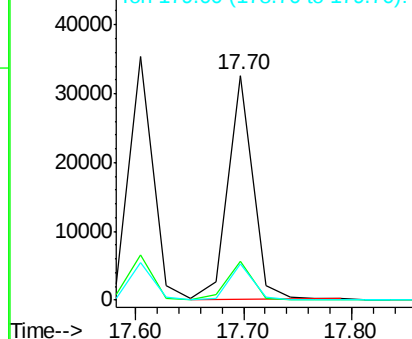
Ion Ratio Lower Upper

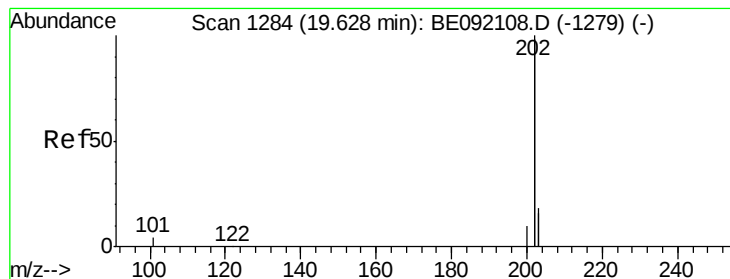
178 100

176 18.0 15.2 22.8

179 15.5 12.2 18.4

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





#21

Fluoranthene

Concen: 3.45 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

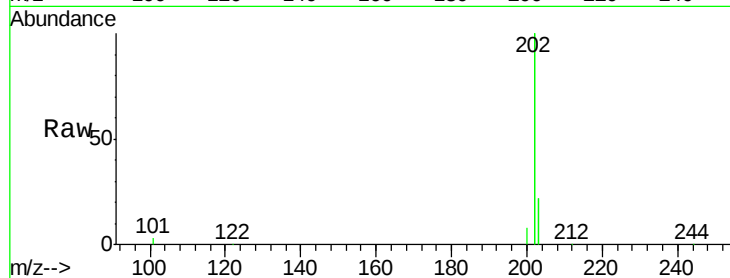
ClientSampleId :

PB92633BS

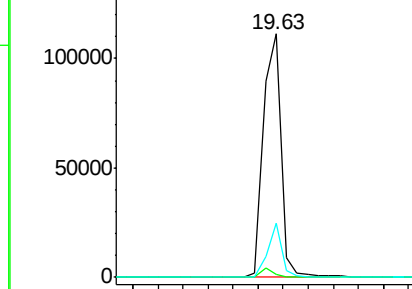
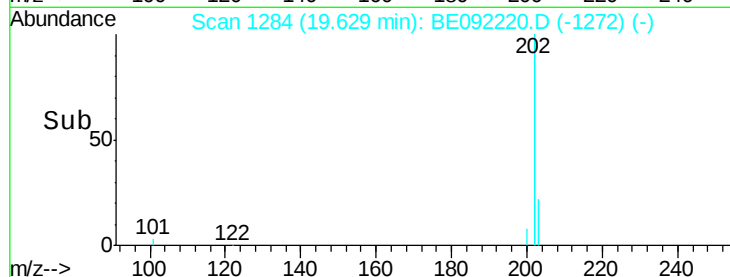
Tgt Ion:	202	Resp:	220885
Ion Ratio	Lower	Upper	
202	100		
101	2.8	2.2	3.2
203	17.6	13.0	19.4

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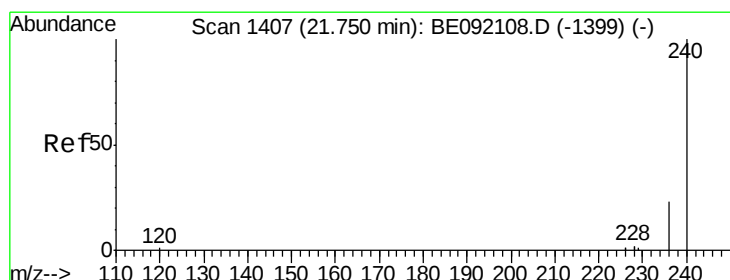
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Abundance Ion 202.00 (201.70 to 202.70): E
150000
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#22

Chrysene-d12

Concen: 5.00 ng

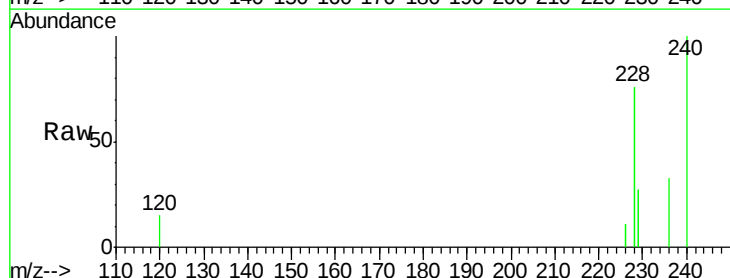
RT: 21.73 min Scan# 1406

Delta R.T. -0.02 min

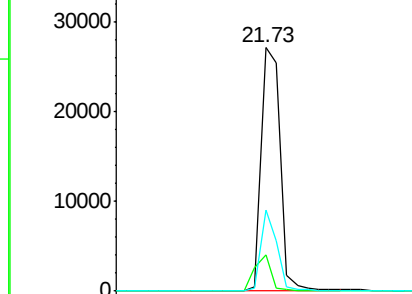
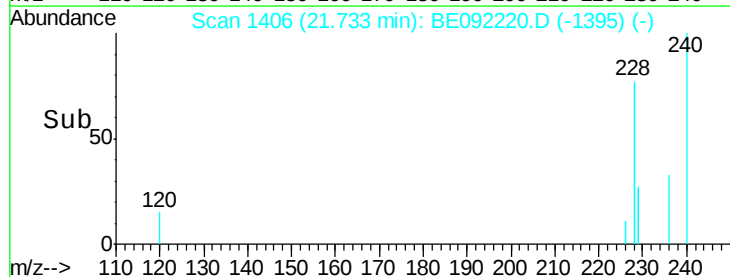
Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

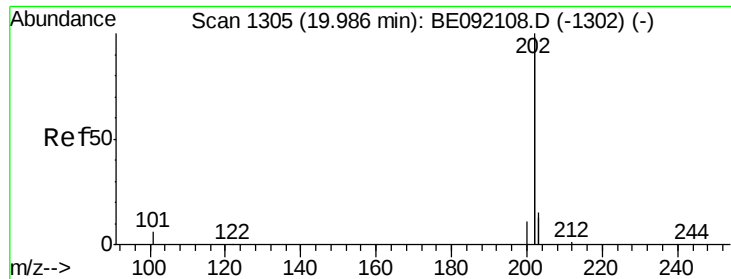
Tgt Ion:	240	Resp:	56921
Ion Ratio	Lower	Upper	
240	100		
120	14.8	0.6	1.0#
236	33.2	18.2	27.4#



Abundance Ion 240.00 (239.70 to 240.70): E
30000
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->



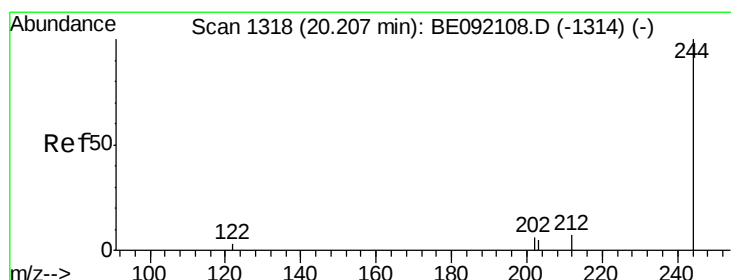
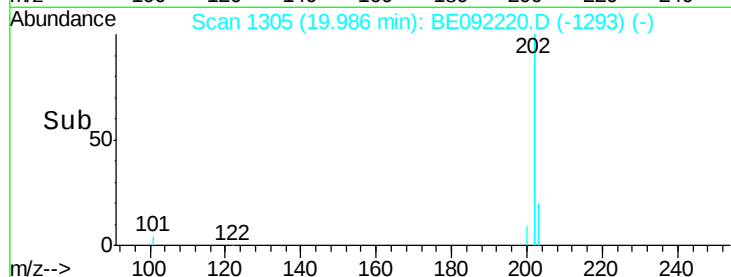
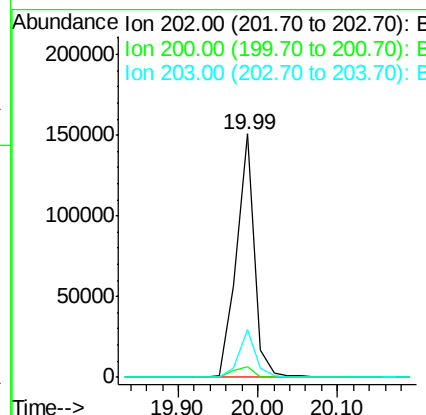
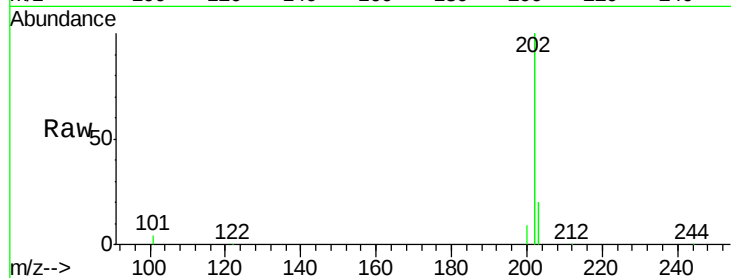
#23
 Pyrene
 Concen: 3.93 ng
 RT: 19.99 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	5.3	4.4	6.6
203	18.3	13.4	20.0

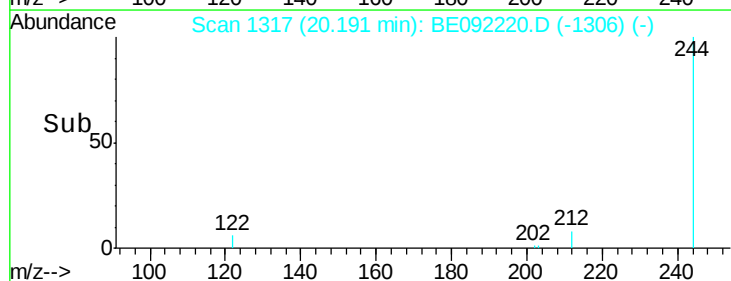
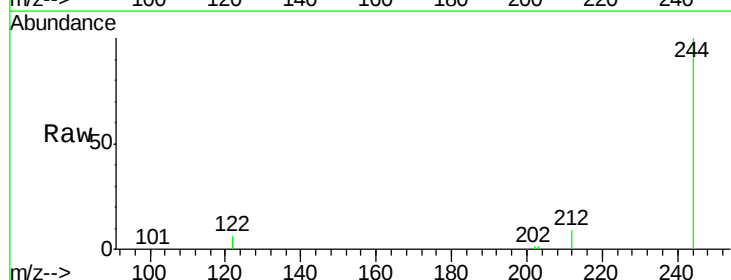
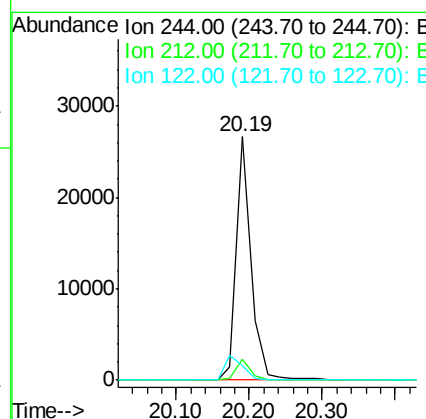
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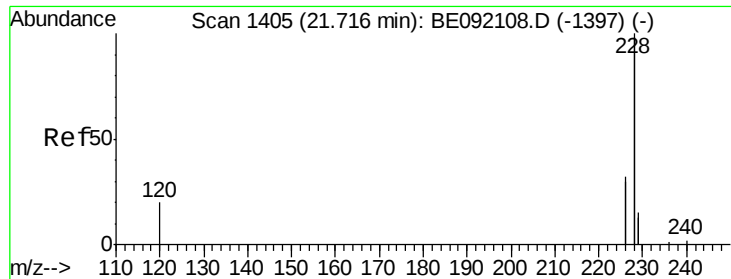
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#24
 Terphenyl-d14
 Concen: 4.47 ng
 RT: 20.19 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.5	9.1	13.7#
122	6.1	11.0	16.4#





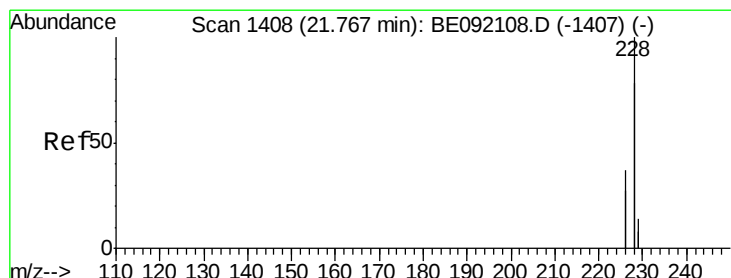
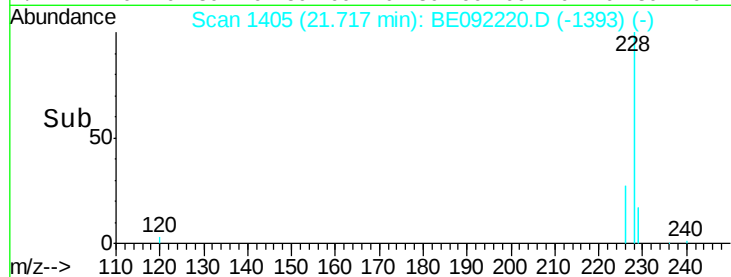
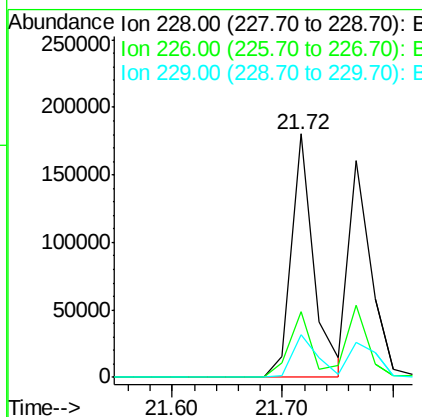
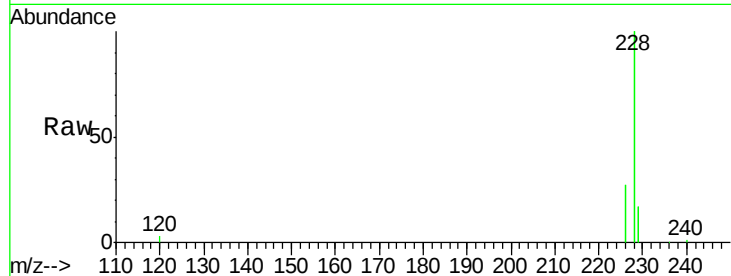
#25
Benzo(a)anthracene
Concen: 4.08 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092220.D
Acq: 8 Aug 2016 17:38

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	255238		
226	26.8	22.1	33.1	
229	17.3	15.1	22.7	

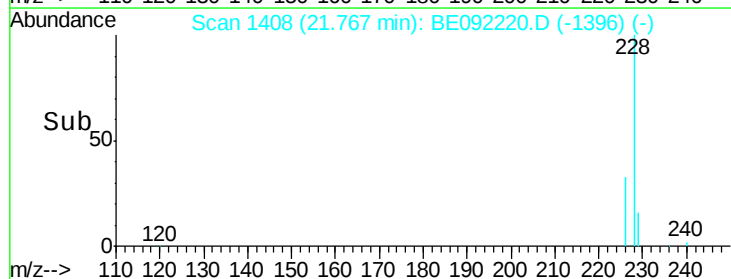
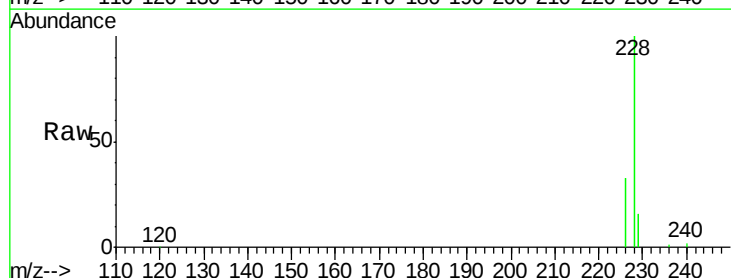
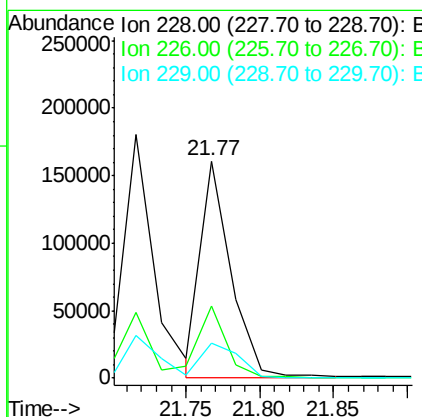
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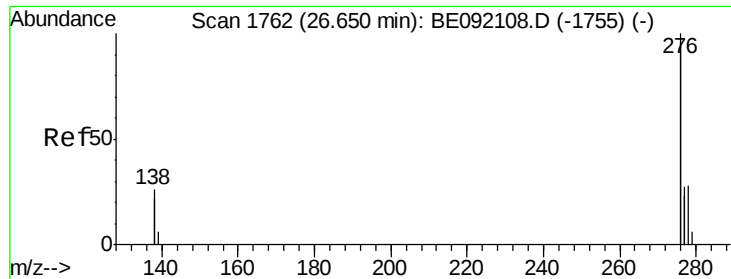
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#26
Chrysene
Concen: 3.73 ng m
RT: 21.77 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BE092220.D
Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	233808		
226	33.0	22.3	33.5	
229	15.8	16.9	25.3#	





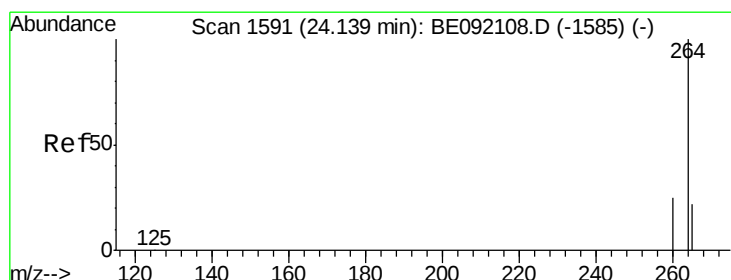
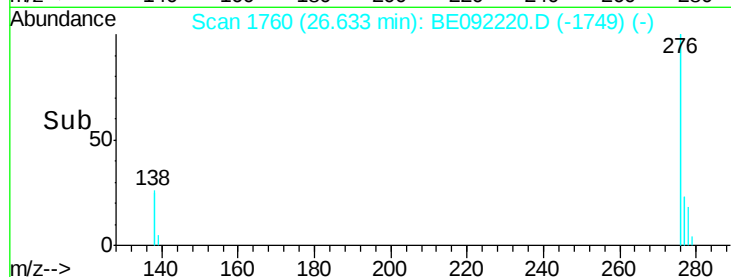
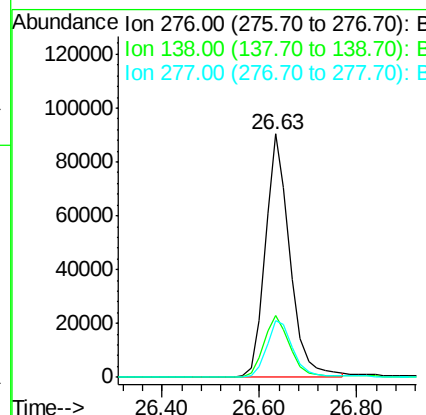
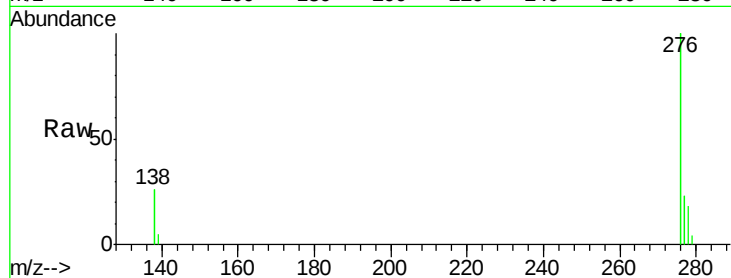
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 4.66 ng
 RT: 26.63 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Instrument :
 BNA_E
 ClientSampleId :
 PB92633BS

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	317368		
138	26.6	21.2	31.8	
277	24.7	19.8	29.8	

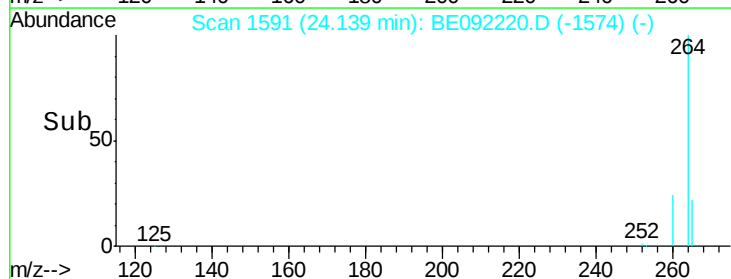
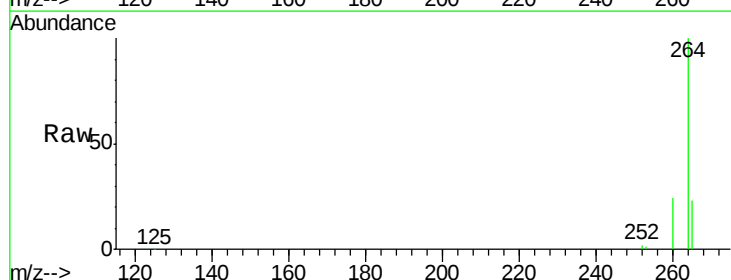
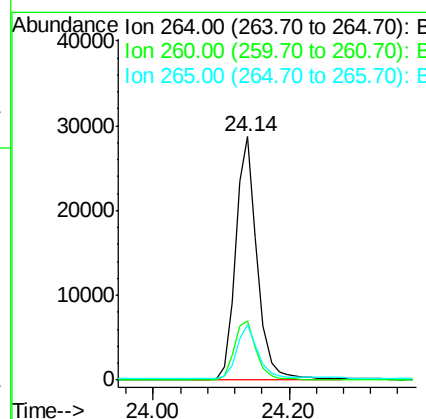
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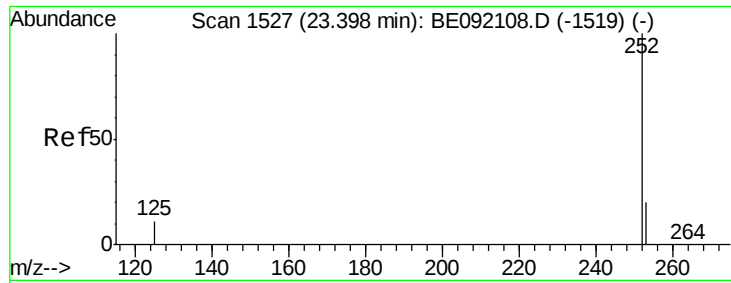
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092220.D
 Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	63033		
260	24.4	20.8	31.2	
265	22.5	16.6	25.0	





#29

Benzo(b)fluoranthene

Concen: 3.96 ng m

RT: 23.40 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

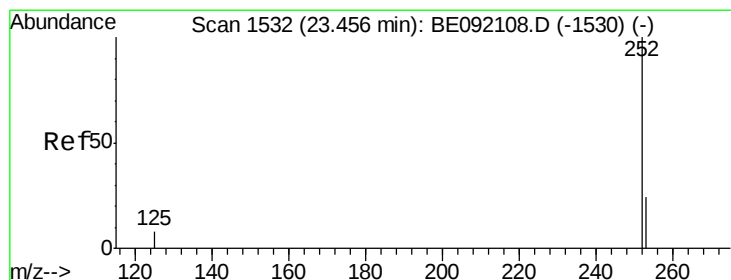
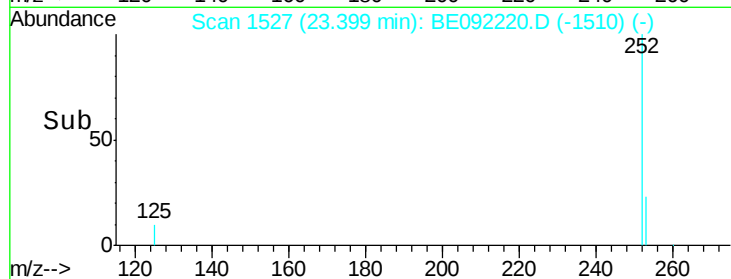
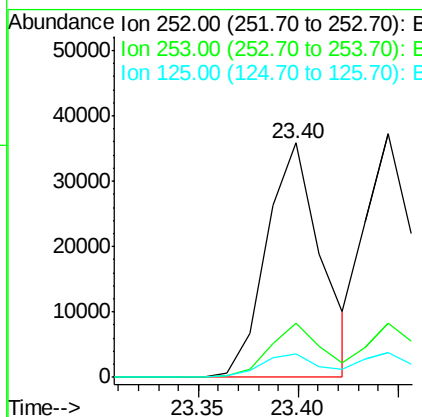
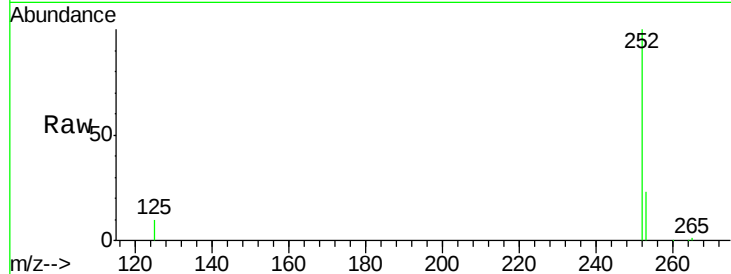
ClientSampleId :

PB92633BS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	9.9	10.2	15.2

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#30

Benzo(k)fluoranthene

Concen: 3.95 ng

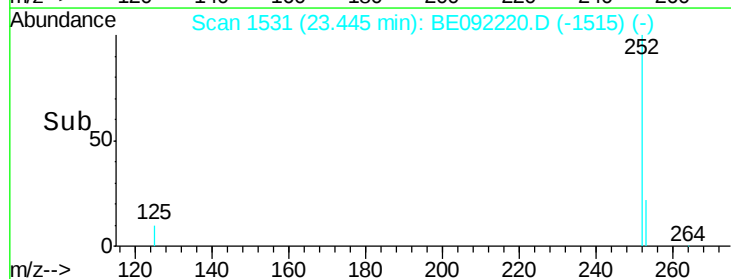
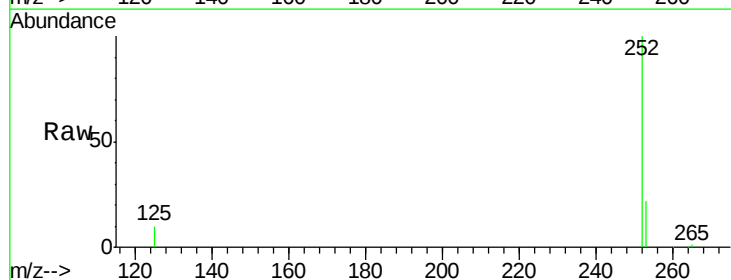
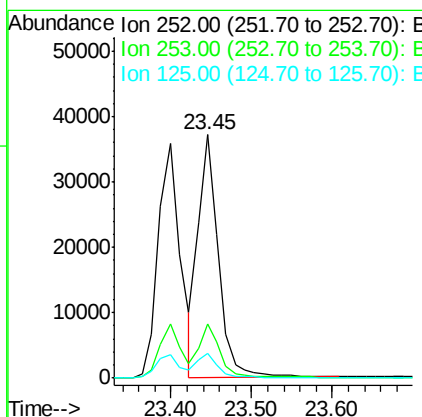
RT: 23.45 min Scan# 1531

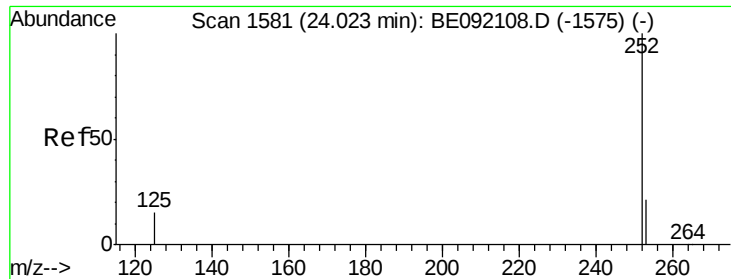
Delta R.T. -0.01 min

Lab File: BE092220.D

Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.4	29.0
125	10.2	8.9	13.3





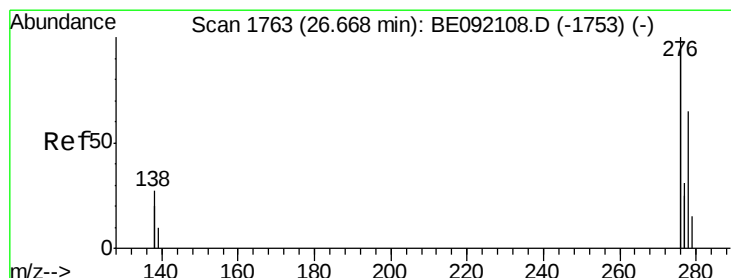
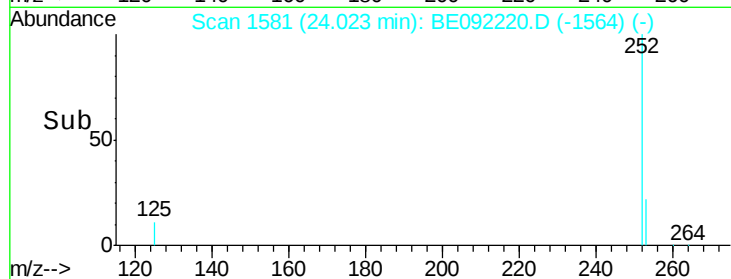
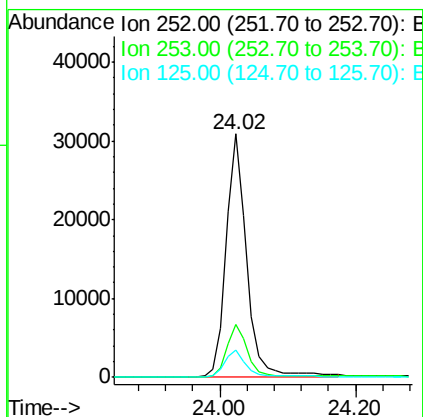
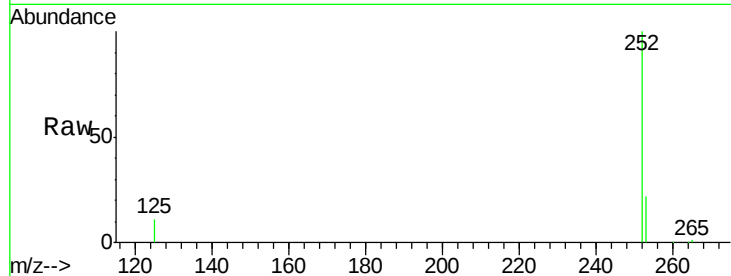
#31
Benzo(a)pyrene
Concen: 4.11 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092220.D
Acq: 8 Aug 2016 17:38

Instrument :
BNA_E
ClientSampleId :
PB92633BS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.8	29.8
125	11.2	10.4	15.6

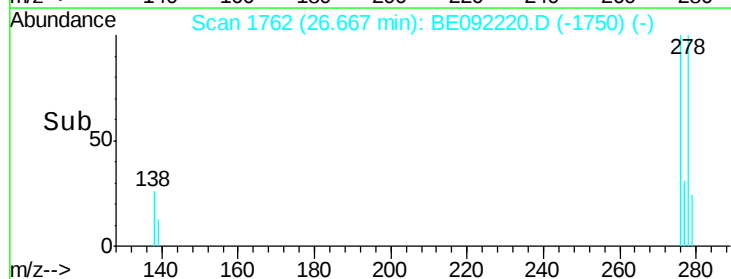
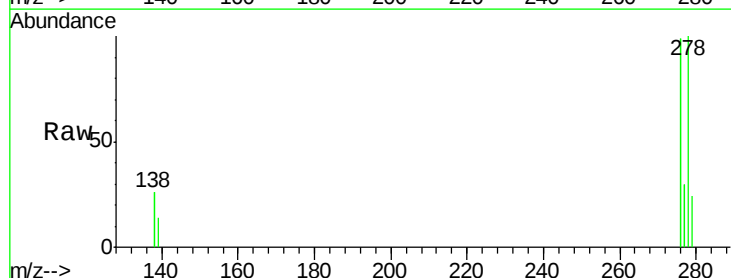
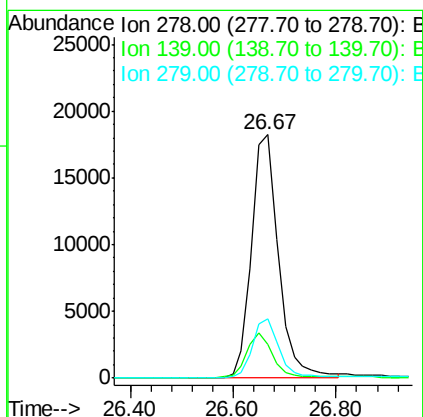
Manual Integrations
APPROVED

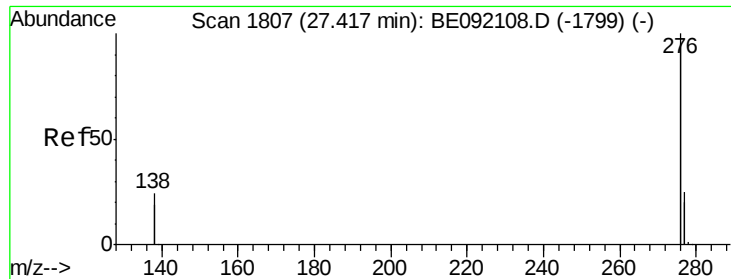
umangi
8/9/2016 2:39:13 PM



#32
Dibenzo(a,h)anthracene
Concen: 4.33 ng
RT: 26.67 min Scan# 1762
Delta R.T. -0.00 min
Lab File: BE092220.D
Acq: 8 Aug 2016 17:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.7	16.7	25.1#
279	24.4	20.3	30.5





#33

Benzo(g,h,i)perylene

Concen: 4.20 ng

RT: 27.40 min Scan# 1805

Delta R.T. -0.02 min

Lab File: BE092220.D

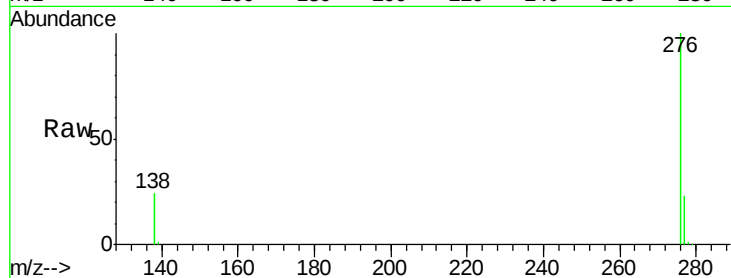
Acq: 8 Aug 2016 17:38

Instrument :

BNA_E

ClientSampleId :

PB92633BS



Tgt Ion:	276	Resp:	271246
Ion Ratio		Lower	Upper
276	100		
277	22.7	19.5	29.3
138	24.0	20.8	31.2

Manual Integrations
APPROVED

umangi
8/9/2016 2:39:13 PM

