

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
 Data File : BE092226.D
 Acq On : 8 Aug 2016 21:28
 Operator : UM/SJ
 Sample : PB92747BSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB92747BSD

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Quant Time: Aug 09 03:23:43 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	14057	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	61522	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	30559	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	64331	5.00	ng	-0.02
22) Chrysene-d12	21.73	240	66019	5.00	ng	-0.02
28) Perylene-d12	24.14	264	71036	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	21143	5.86	ng	0.00
5) Phenol-d6	7.34	99	27022	5.62	ng	-0.01
7) Nitrobenzene-d5	9.34	82	12847	2.65	ng	-0.01
11) 2,4,6-Tribromophenol	16.32	330	5575	5.62	ng	-0.01
12) 2-Fluorobiphenyl	13.45	172	26736	2.76	ng	-0.01
24) Terphenyl-d14	20.19	244	27753	2.93	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	4156	2.17	ng	# 78
3) n-Nitrosodimethylamine	3.79	42	7092	2.71	ng	98
8) Naphthalene	11.03	128	36446	2.76	ng	95
9) 2-Methylnaphthalene	12.64	142	24668	2.83	ng	91
13) Acenaphthylene	14.54	152	145137	2.69	ng	98
14) Acenaphthene	14.90	154	21938	2.55	ng	94
15) Fluorene	15.88	166	27375	2.51	ng	99
17) Hexachlorobenzene	16.89	284	7405m	2.35	ng	
18) Pentachlorophenol	17.24	266	5235	4.51	ng	# 83
19) Phenanthrene	17.61	178	46715	2.65	ng	100
20) Anthracene	17.70	178	42446	2.48	ng	99
21) Fluoranthene	19.63	202	184771	2.35	ng	97
23) Pyrene	19.99	202	190920	2.77	ng	97
25) Benzo(a)anthracene	21.72	228	205256	2.83	ng	96
26) Chrysene	21.77	228	182785m	2.51	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	253228	3.21	ng	100
29) Benzo(b)fluoranthene	23.40	252	53393	2.75	ng	# 96
30) Benzo(k)fluoranthene	23.45	252	49463	2.65	ng	96
31) Benzo(a)pyrene	24.02	252	50066	2.80	ng	95
32) Dibenzo(a,h)anthracene	26.65	278	52926	3.11	ng	96
33) Benzo(g,h,i)perylene	27.40	276	221711	3.05	ng	96

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

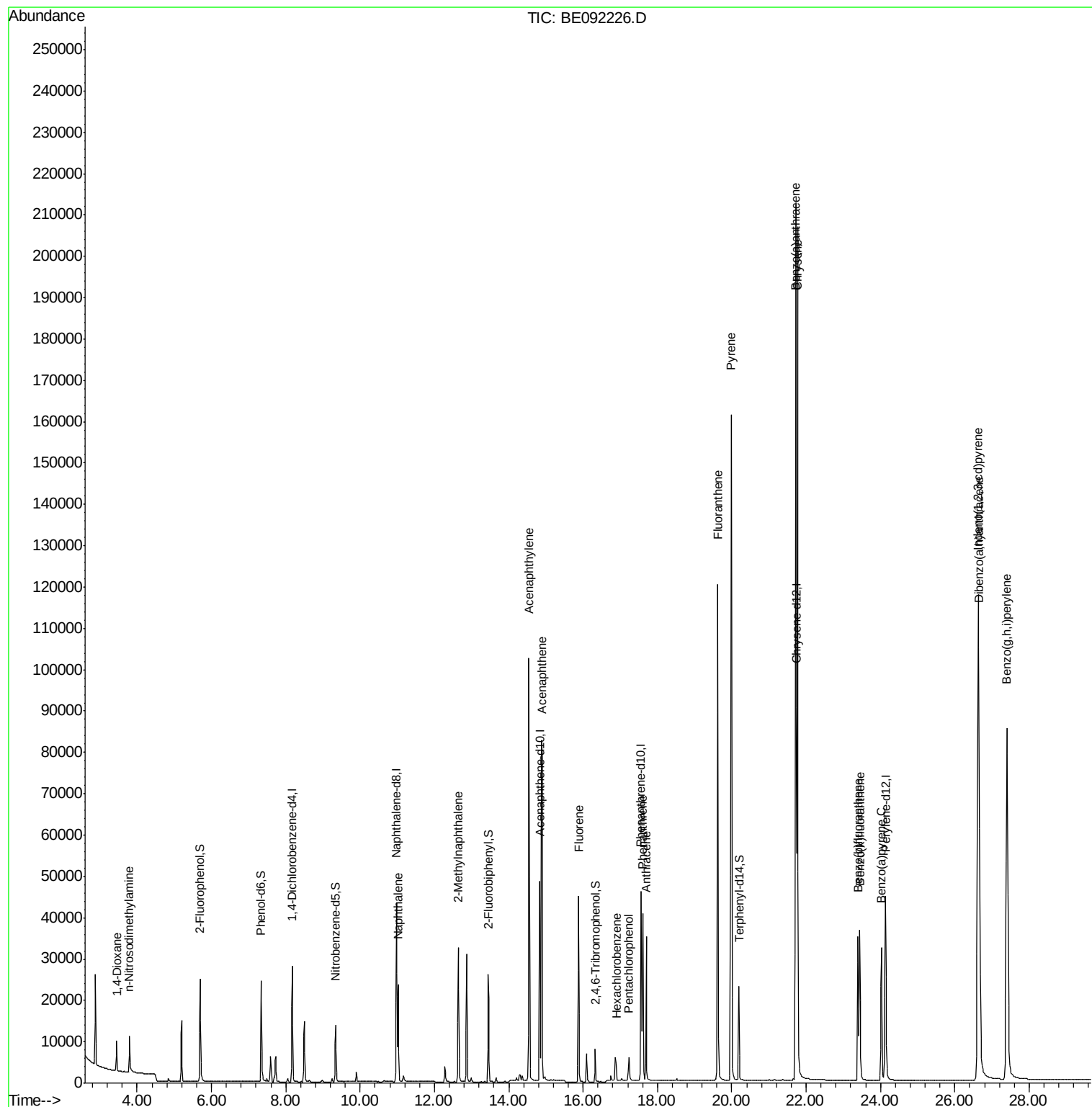
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
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ALS Vial : 11 Sample Multiplier: 1

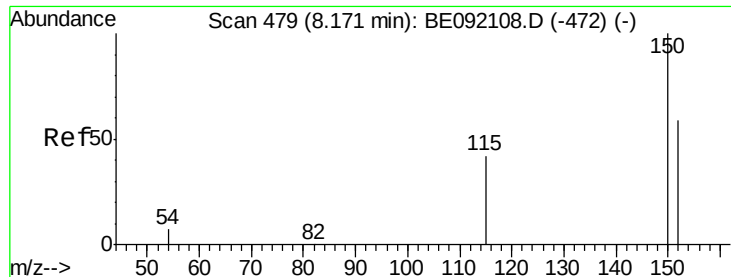
Instrument :
BNA_E
ClientSampleID :
PB92747BSD

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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
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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: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

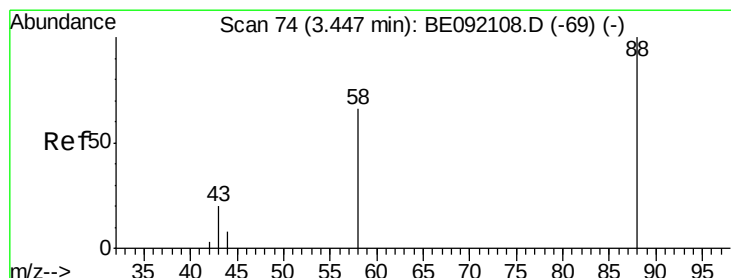
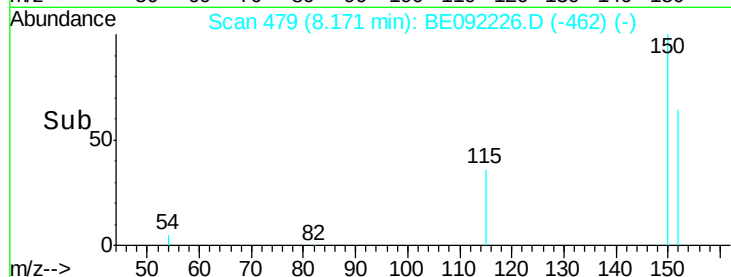
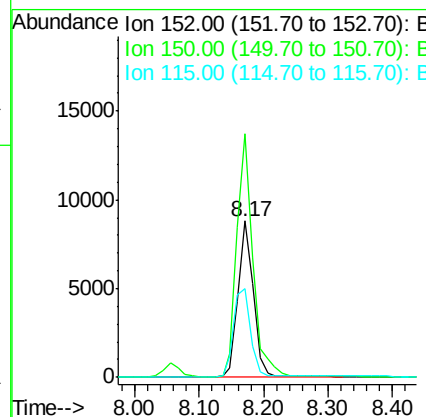
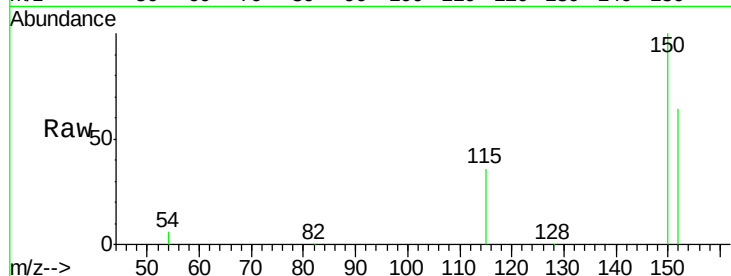
ClientSampleId :

PB92747BSD

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.6	106.0	159.0
115	56.8	36.9	55.3

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#2

1,4-Dioxane

Concen: 2.17 ng

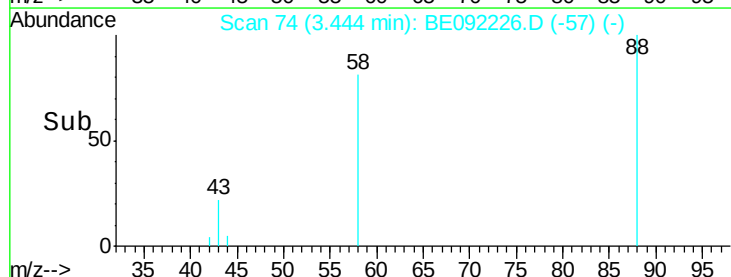
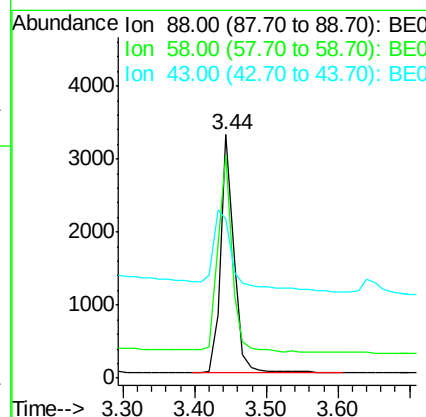
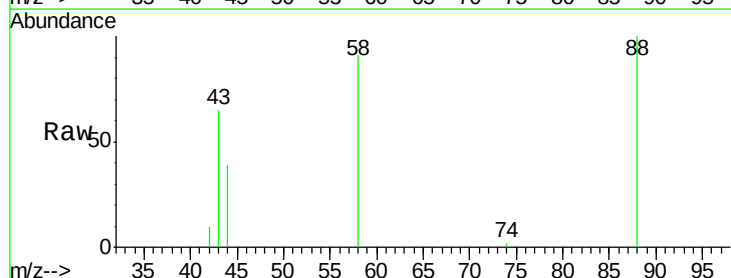
RT: 3.44 min Scan# 74

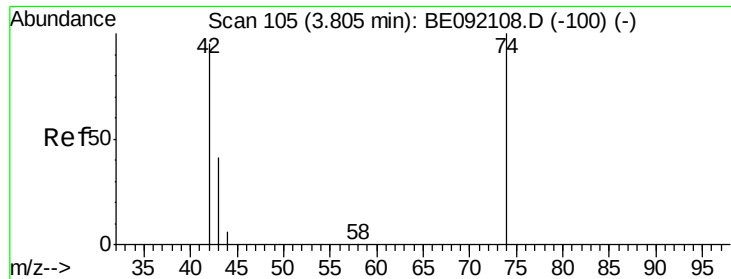
Delta R.T. -0.00 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Tgt Ion	Ratio	Lower	Upper
88	100		
58	90.7	62.1	93.1
43	54.7	27.2	40.8





#3

n-Nitrosodimethylamine

Concen: 2.71 ng

RT: 3.79 min Scan# 104

Delta R.T. -0.01 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

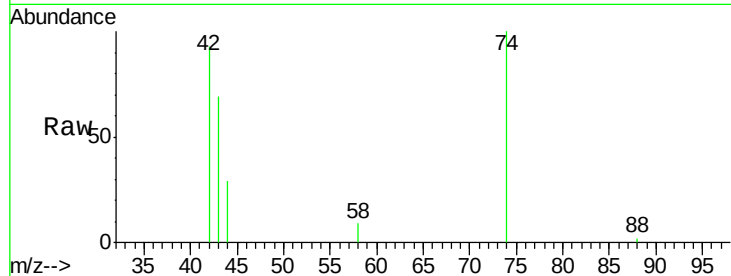
ClientSampleId :

PB92747BSD

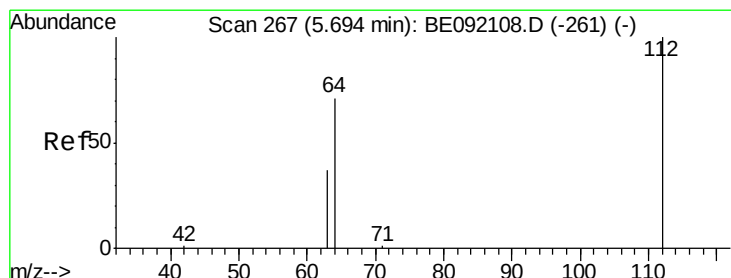
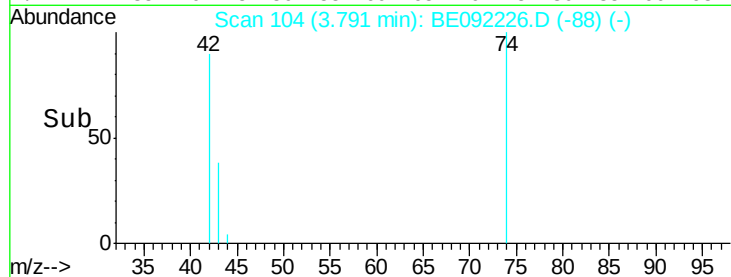
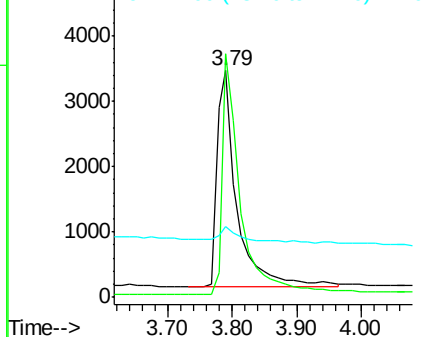
Tgt Ion:	42	Resp:	7092
Ion Ratio	Lower	Upper	
42	100		
74	100.9	82.8	124.2
44	11.4	9.0	13.4

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Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 5.86 ng

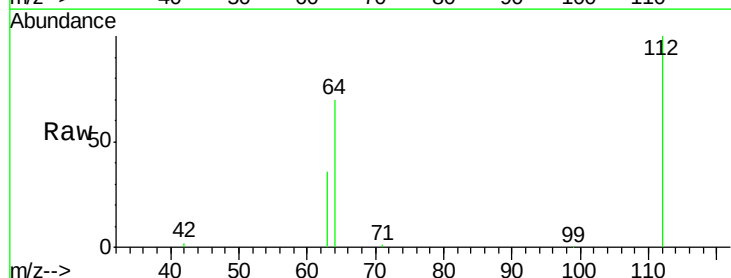
RT: 5.69 min Scan# 267

Delta R.T. 0.00 min

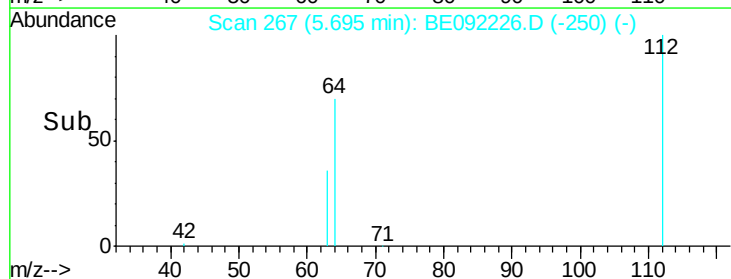
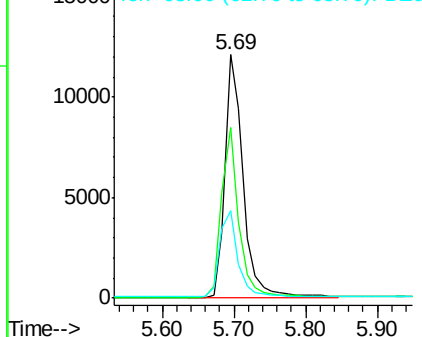
Lab File: BE092226.D

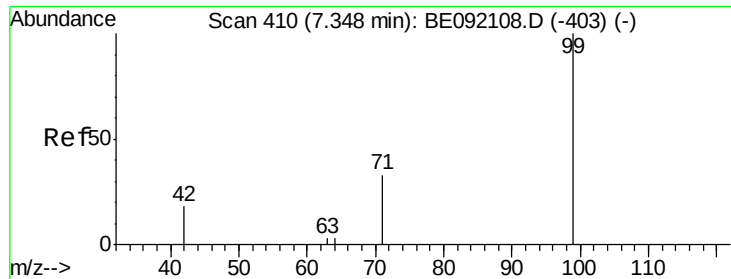
Acq: 8 Aug 2016 21:28

Tgt Ion:	112	Resp:	21143
Ion Ratio	Lower	Upper	
112	100		
64	67.1	55.9	83.9
63	36.6	31.1	46.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 5.62 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

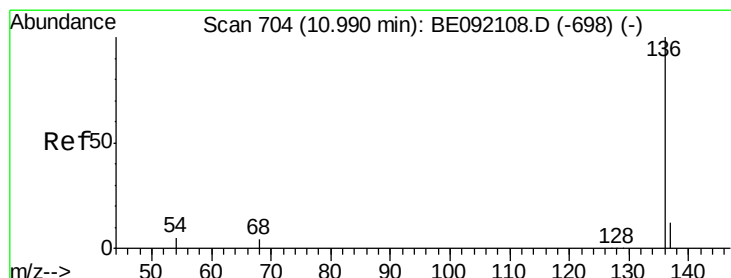
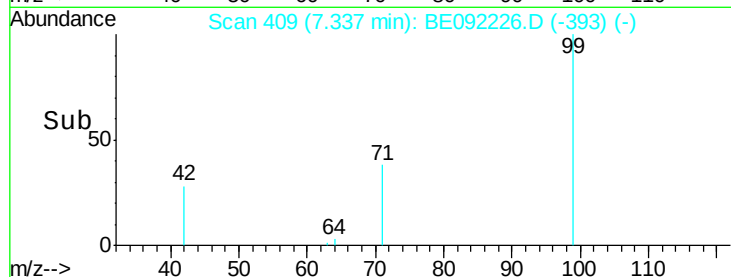
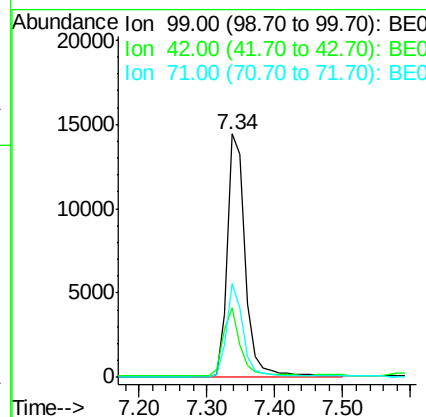
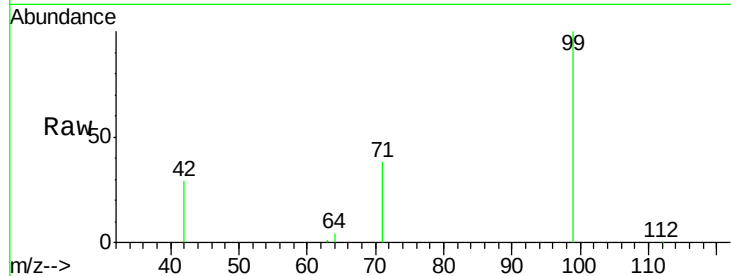
ClientSampleId :

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Tgt Ion:	99	Resp:	27022
Ion Ratio	Lower	Upper	
99	100		
42	26.0	22.4	33.6
71	35.4	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

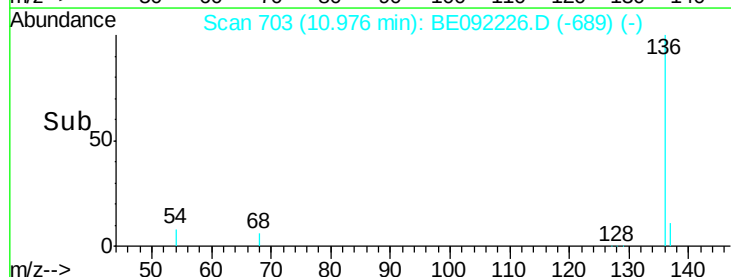
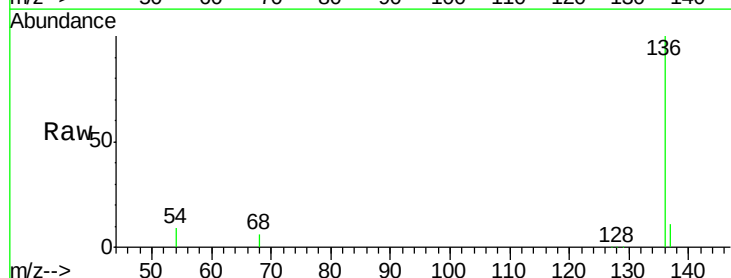
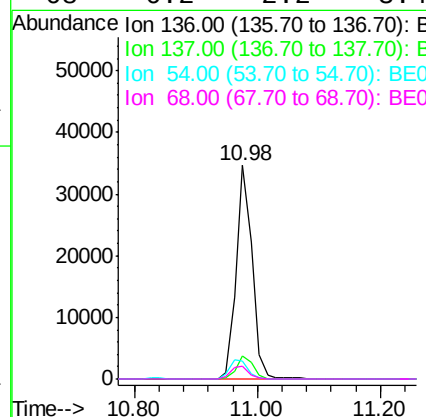
RT: 10.98 min Scan# 703

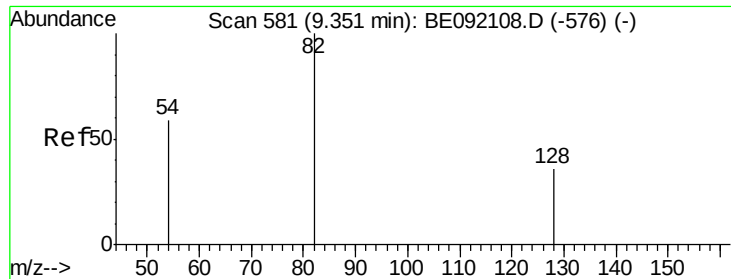
Delta R.T. -0.01 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Tgt Ion:	136	Resp:	61522
Ion Ratio	Lower	Upper	
136	100		
137	10.8	9.1	13.7
54	8.6	2.7	4.1#
68	6.2	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 2.65 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

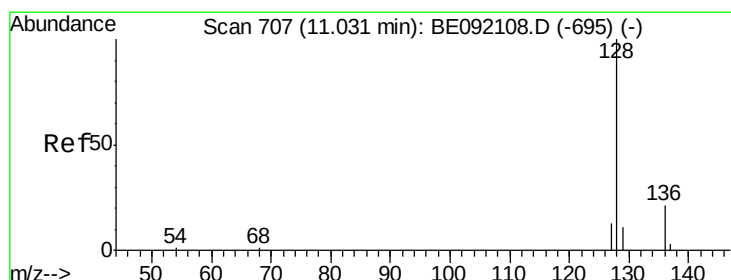
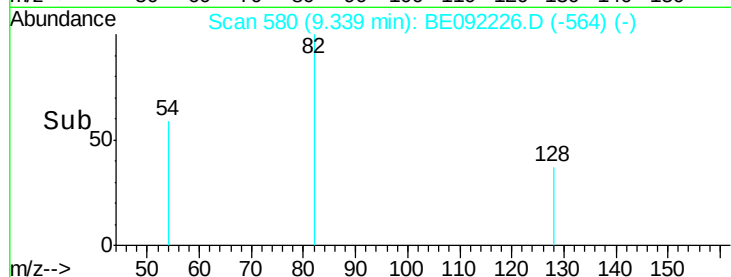
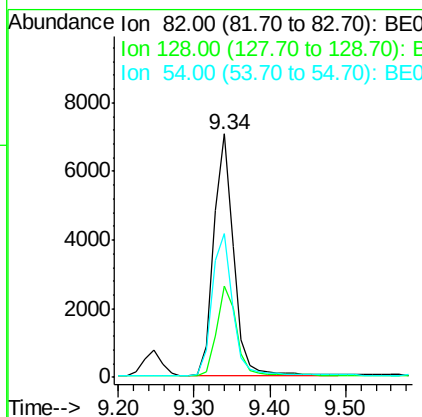
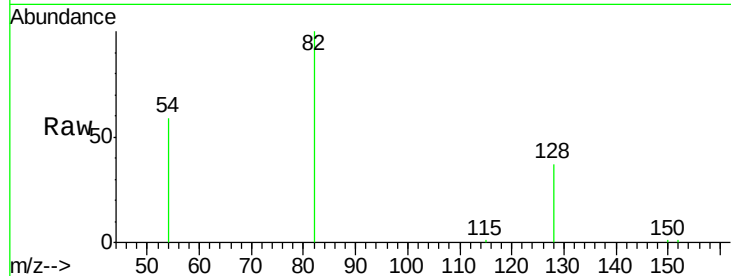
ClientSampleId :

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Tgt Ion:	82	Resp:	12847
Ion Ratio	Lower	Upper	
82	100		
128	37.5	33.0	49.4
54	59.2	42.6	63.8

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#8

Naphthalene

Concen: 2.76 ng

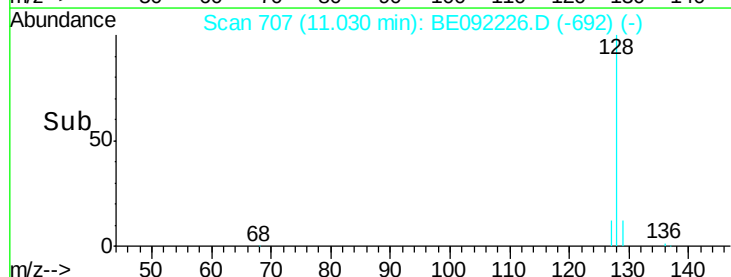
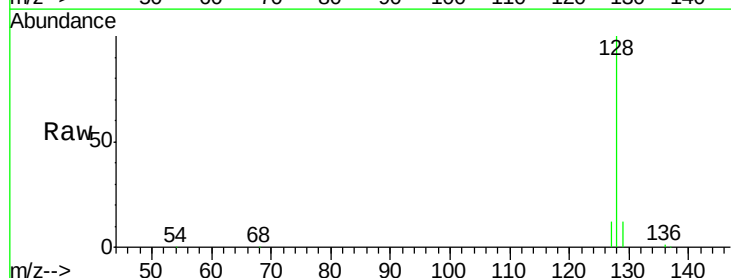
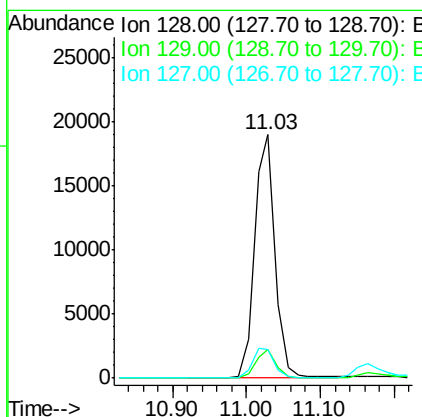
RT: 11.03 min Scan# 707

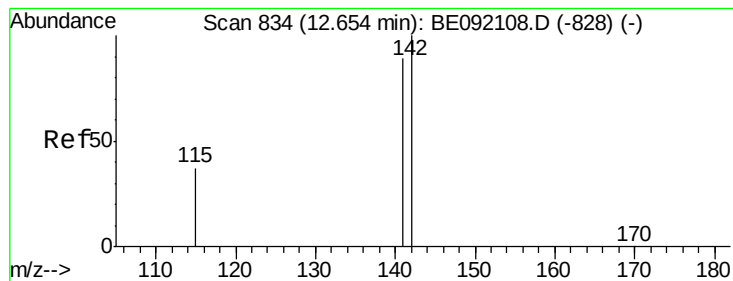
Delta R.T. -0.00 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Tgt Ion:	128	Resp:	36446
Ion Ratio	Lower	Upper	
128	100		
129	11.8	11.1	16.7
127	11.9	11.3	16.9





#9

2-Methylnaphthalene

Concen: 2.83 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

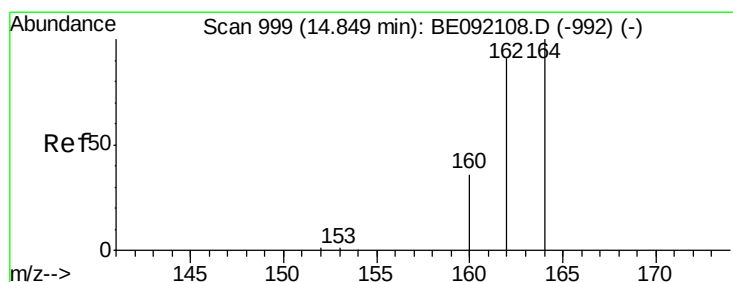
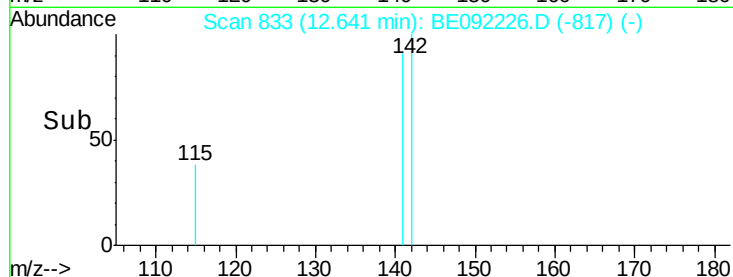
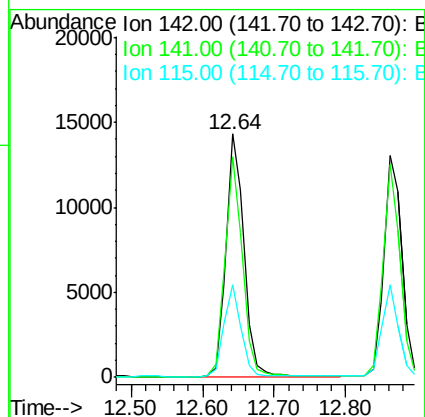
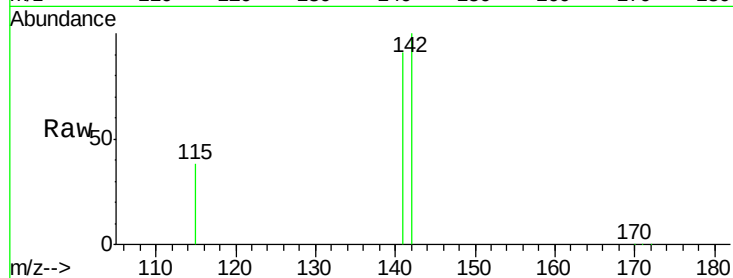
ClientSampleId :

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Tgt Ion:	142	Resp:	24668
Ion Ratio	Lower	Upper	
142	100		
141	90.7	65.1	97.7
115	37.8	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

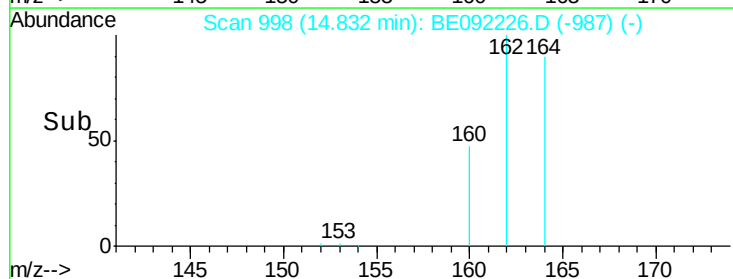
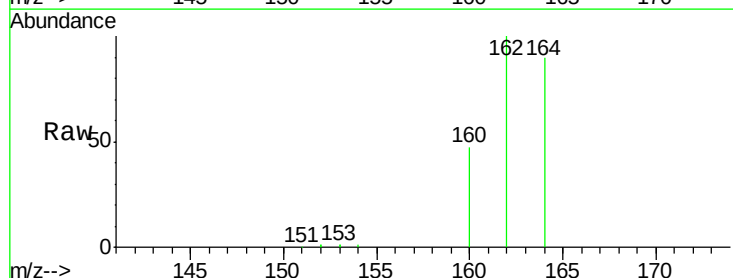
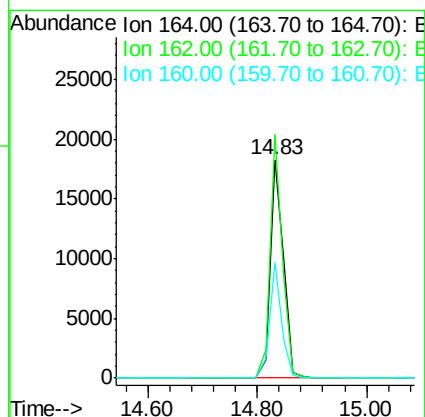
RT: 14.83 min Scan# 998

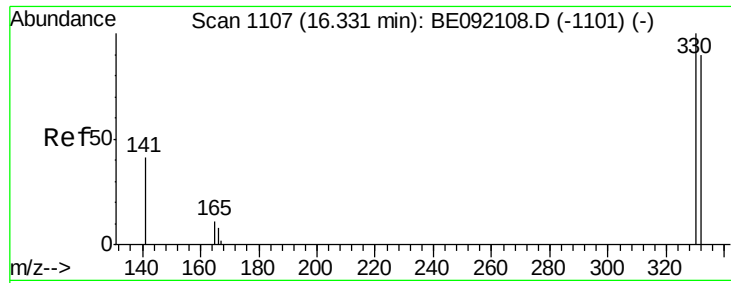
Delta R.T. -0.02 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Tgt Ion:	164	Resp:	30559
Ion Ratio	Lower	Upper	
164	100		
162	111.6	69.5	104.3#
160	52.9	27.6	41.4#





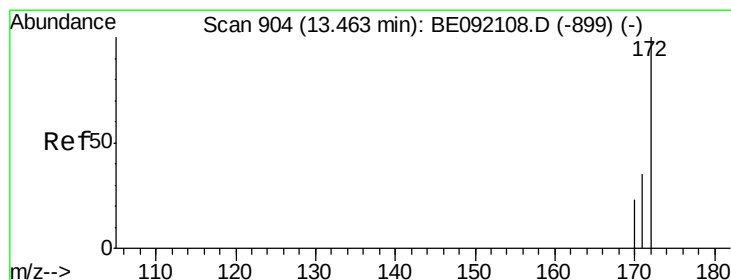
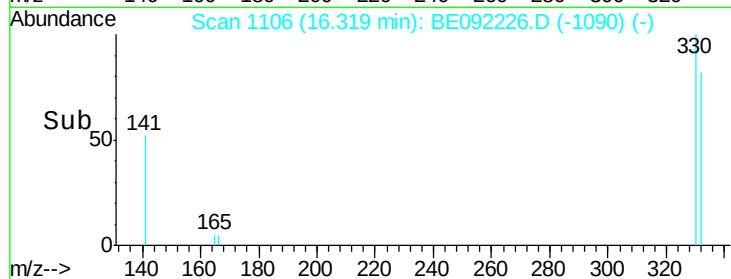
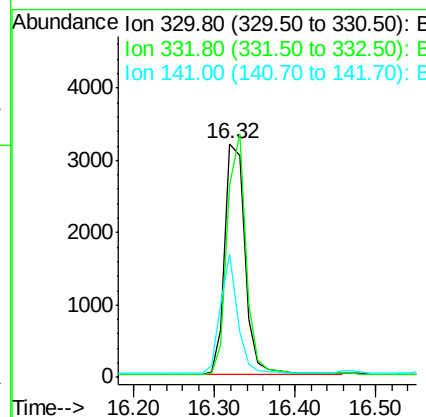
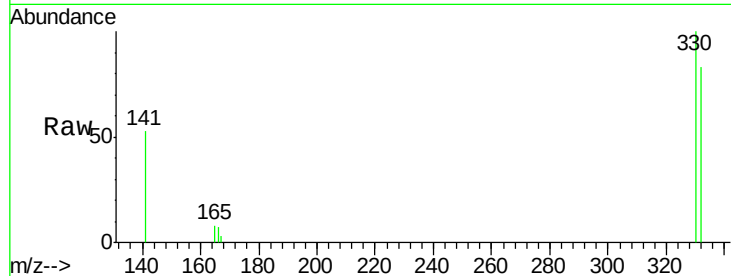
#11
 2,4,6-Tribromophenol
 Concen: 5.62 ng
 RT: 16.32 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: BE092226.D
 Acq: 8 Aug 2016 21:28

Instrument :
 BNA_E
 ClientSampleId :
 PB92747BSD

Tgt Ion: 330 Resp: 5575
 Ion Ratio Lower Upper
 330 100
 332 97.0 74.2 111.4
 141 44.4 139.8 209.8#

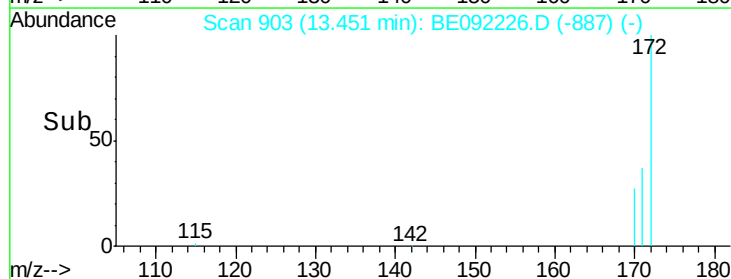
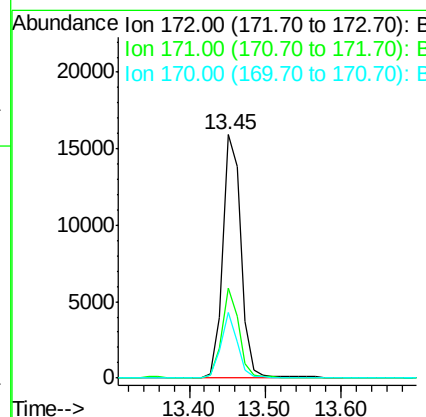
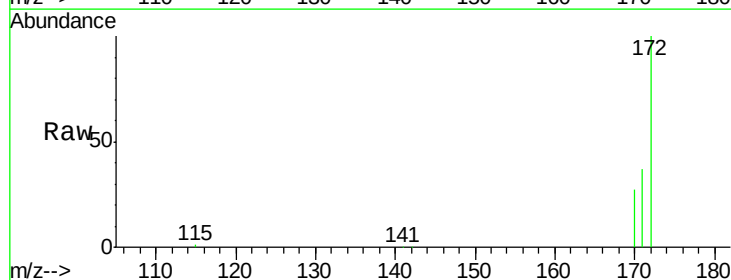
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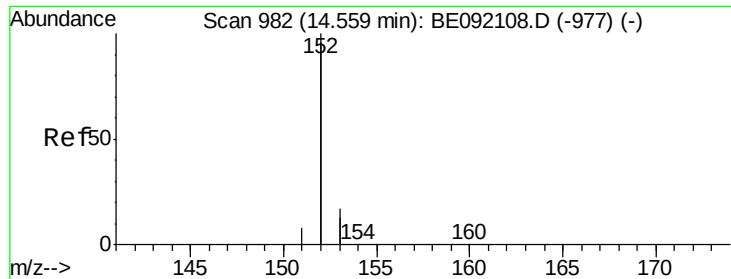
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#12
 2-Fluorobiphenyl
 Concen: 2.76 ng
 RT: 13.45 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BE092226.D
 Acq: 8 Aug 2016 21:28

Tgt Ion: 172 Resp: 26736
 Ion Ratio Lower Upper
 172 100
 171 37.0 30.3 45.5
 170 27.0 21.6 32.4





#13

Acenaphthylene

Concen: 2.69 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

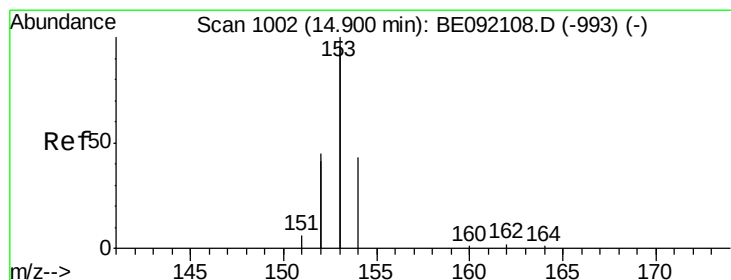
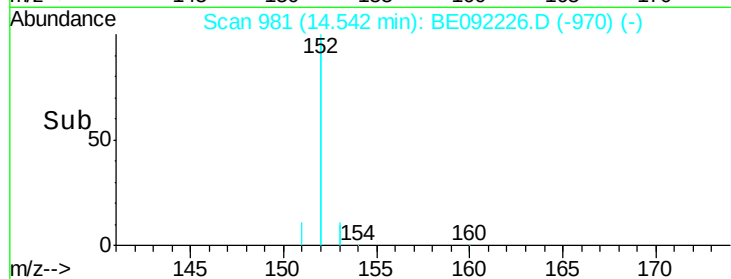
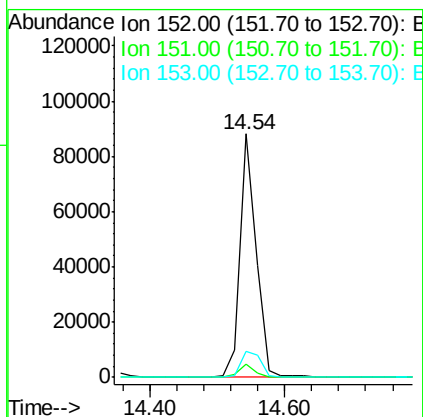
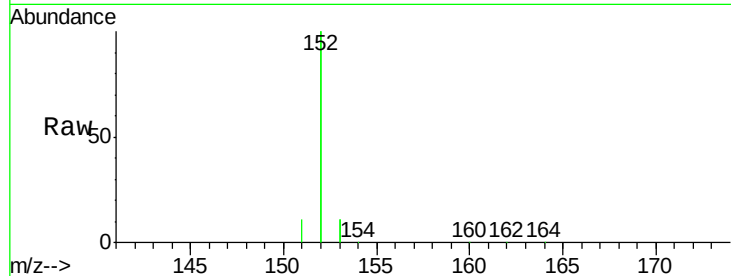
ClientSampleId :

PB92747BSD

Tgt Ion:	152	Resp:	145137
Ion Ratio	Lower	Upper	
152	100		
151	5.0	4.0	6.0
153	12.9	9.6	14.4

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#14

Acenaphthene

Concen: 2.55 ng

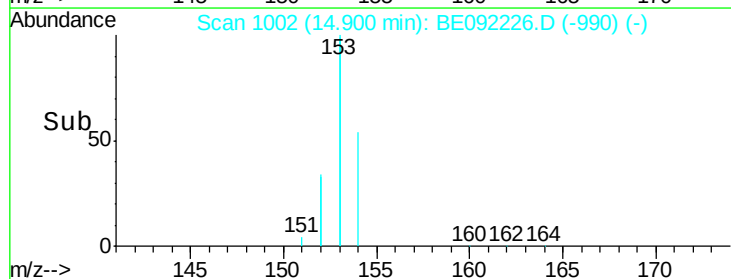
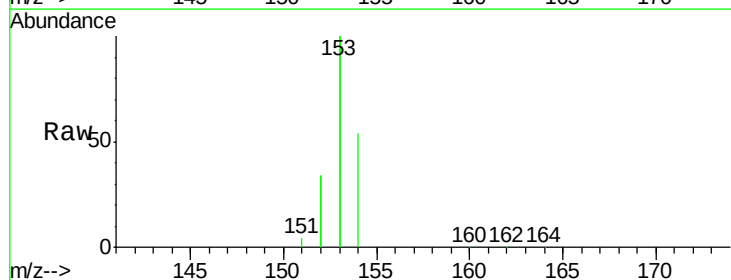
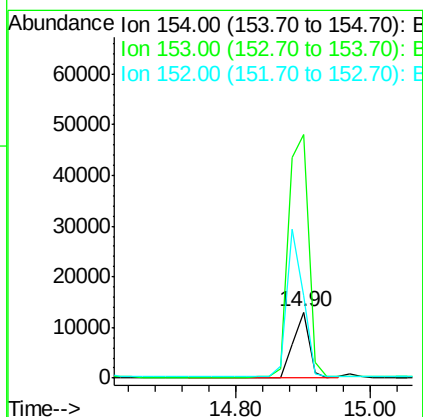
RT: 14.90 min Scan# 1002

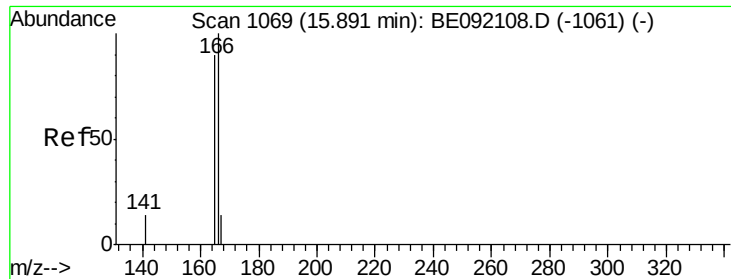
Delta R.T. 0.00 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Tgt Ion:	154	Resp:	21938
Ion Ratio	Lower	Upper	
154	100		
153	449.7	345.1	517.7
152	226.0	176.0	264.0





#15

Fluorene

Concen: 2.51 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

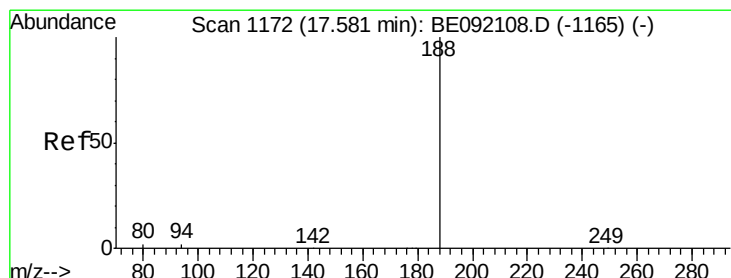
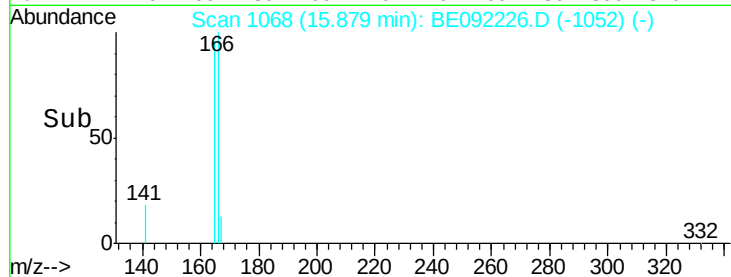
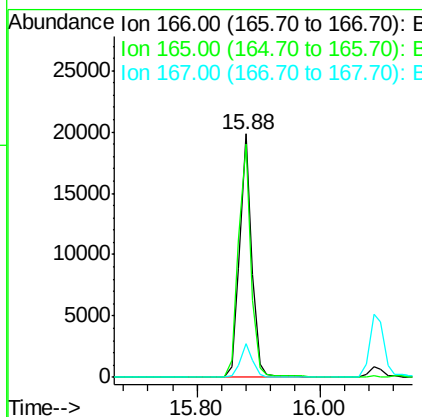
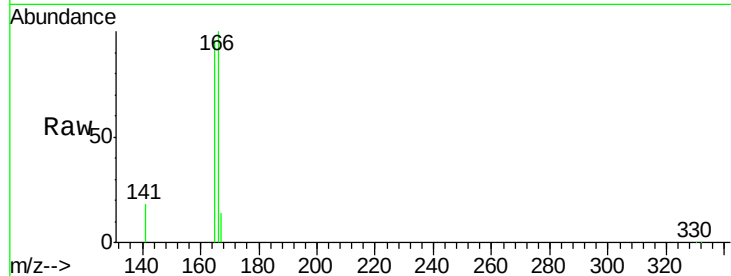
ClientSampleId :

PB92747BSD

Tgt Ion:	166	Resp:	27375
Ion Ratio	Lower	Upper	
166	100		
165	98.8	78.6	118.0
167	13.4	11.1	16.7

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#16

Phenanthrene-d10

Concen: 5.00 ng

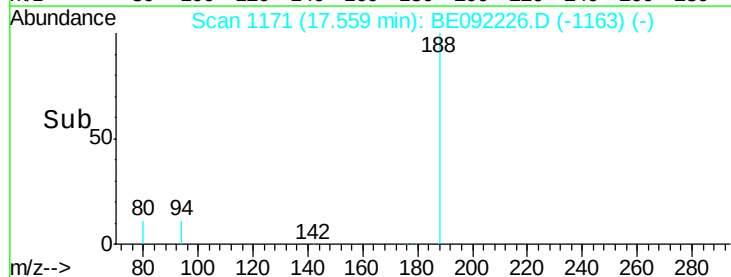
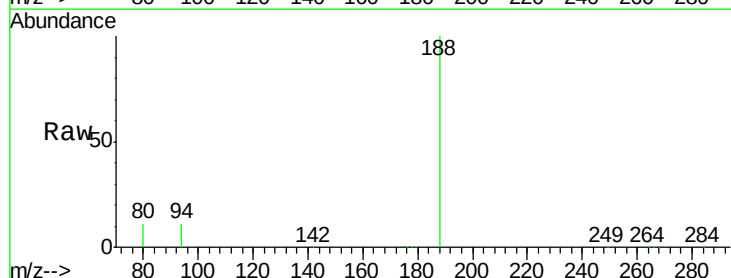
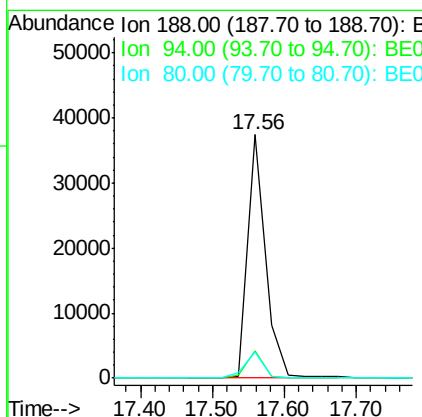
RT: 17.56 min Scan# 1171

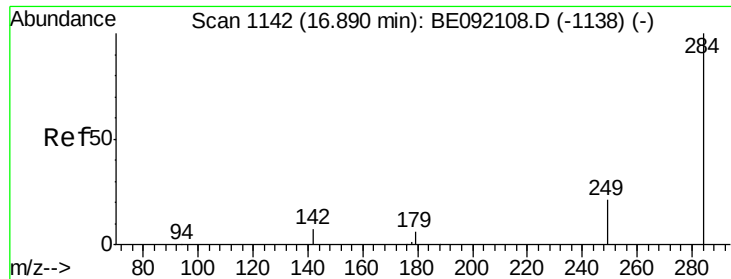
Delta R.T. -0.02 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Tgt Ion:	188	Resp:	64331
Ion Ratio	Lower	Upper	
188	100		
94	11.2	3.9	5.9#
80	10.9	3.4	5.0#





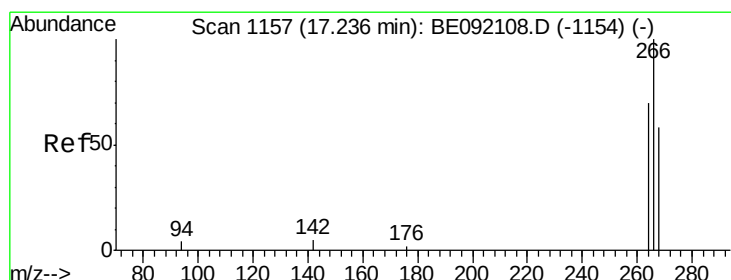
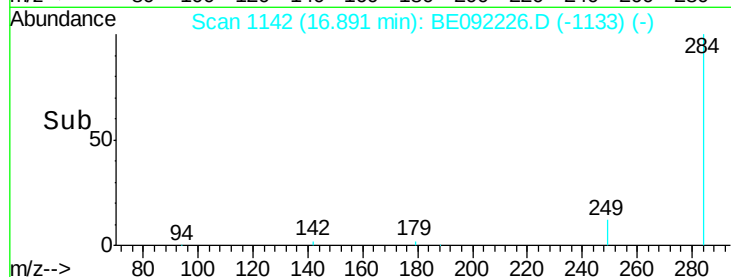
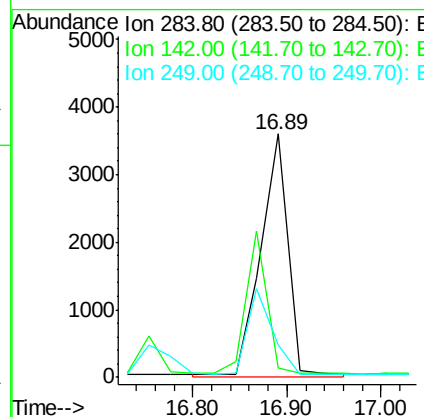
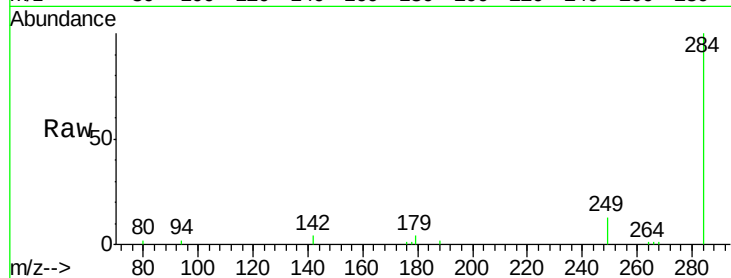
#17
Hexachlorobenzene
Concen: 2.35 ng m
RT: 16.89 min Scan# 1142
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

Instrument :
BNA_E
ClientSampleId :
PB92747BSD

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	7405		
142	0.0	33.3	49.9#	
249	0.0	25.4	38.0#	

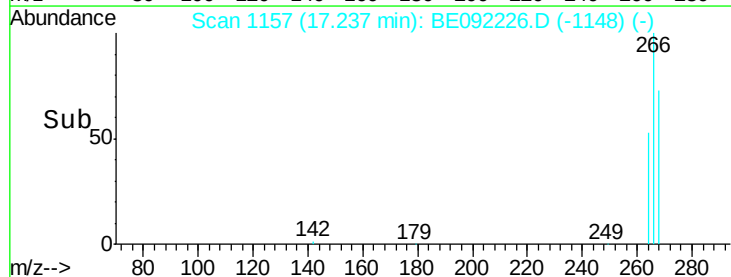
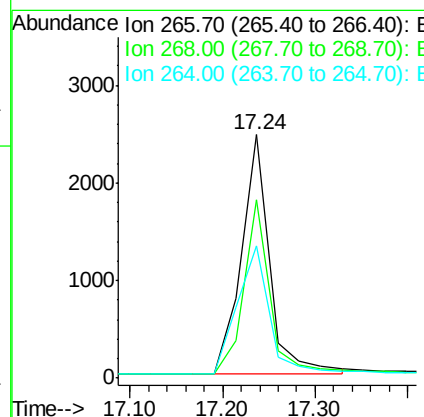
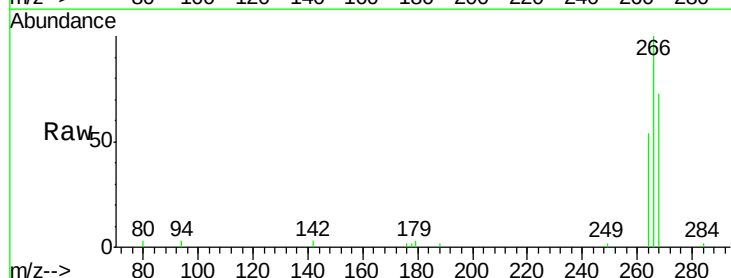
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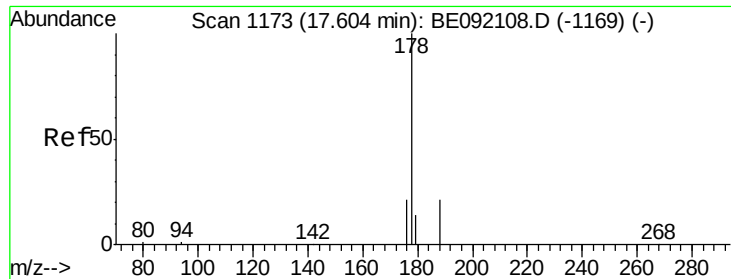
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#18
Pentachlorophenol
Concen: 4.51 ng
RT: 17.24 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	5235		
268	73.2	62.7	94.1	
264	54.1	63.5	95.3#	





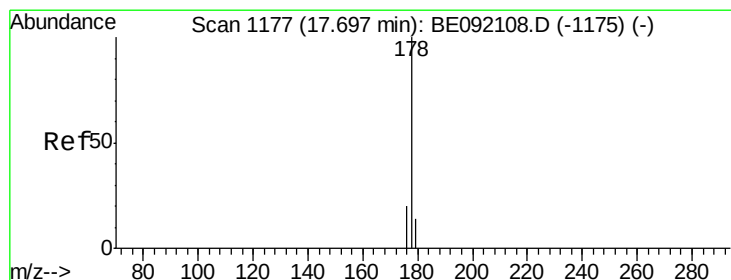
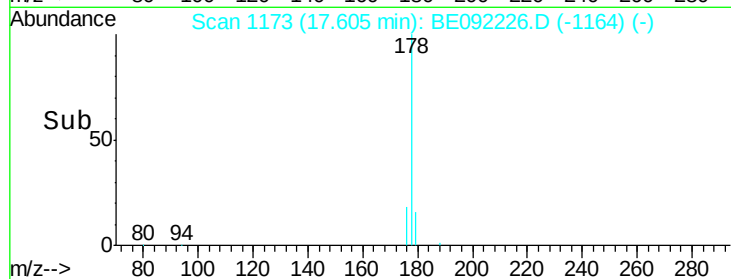
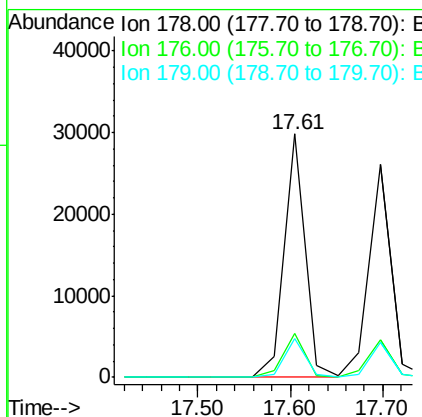
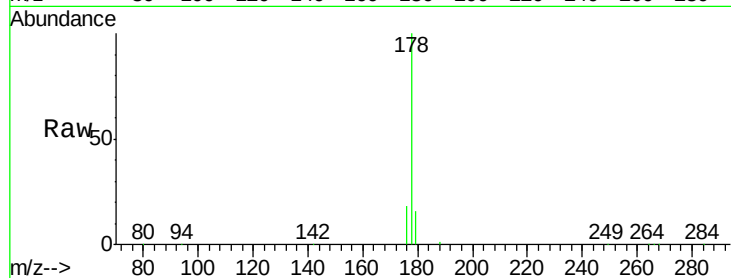
#19
Phenanthrene
Concen: 2.65 ng
RT: 17.61 min Scan# 1173
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

Instrument :
BNA_E
ClientSampleId :
PB92747BSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.9	12.7	19.1

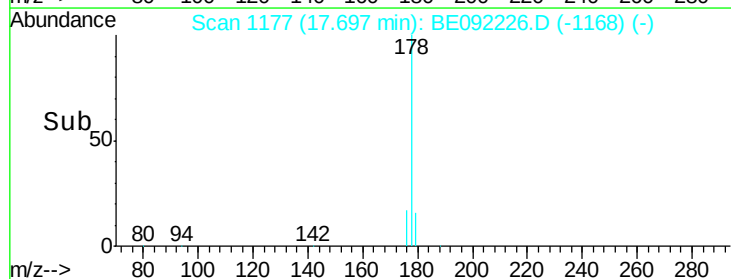
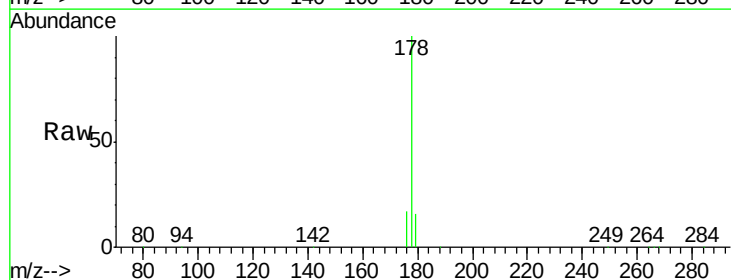
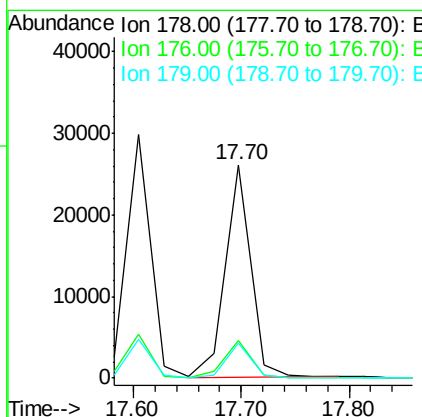
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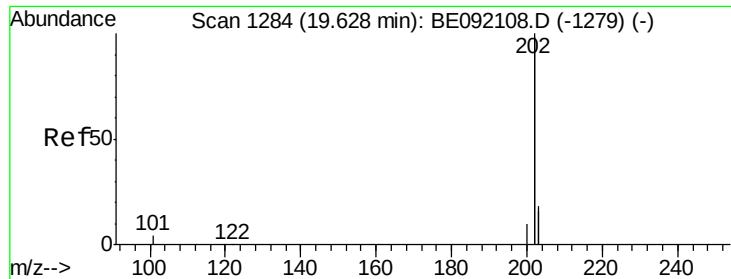
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#20
Anthracene
Concen: 2.48 ng
RT: 17.70 min Scan# 1177
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.2	22.8
179	15.5	12.2	18.4





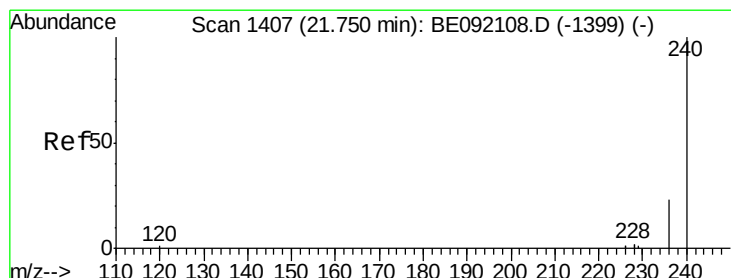
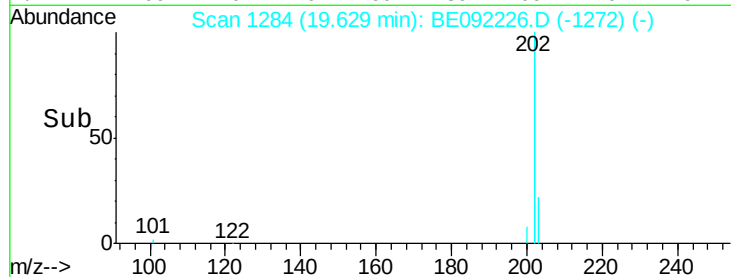
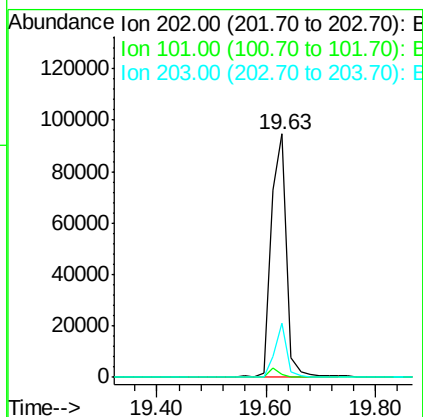
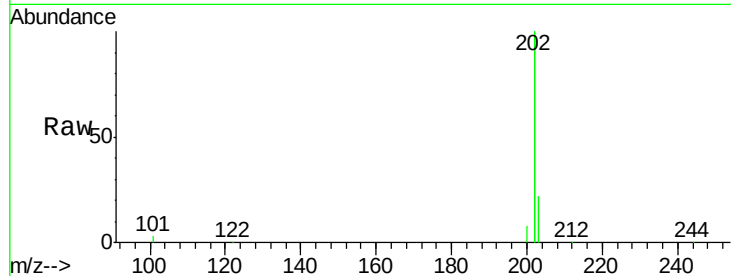
#21
 Fluoranthene
 Concen: 2.35 ng
 RT: 19.63 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: BE092226.D
 Acq: 8 Aug 2016 21:28

Instrument :
 BNA_E
 ClientSampleId :
 PB92747BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	2.8	2.2	3.2
203	17.7	13.0	19.4

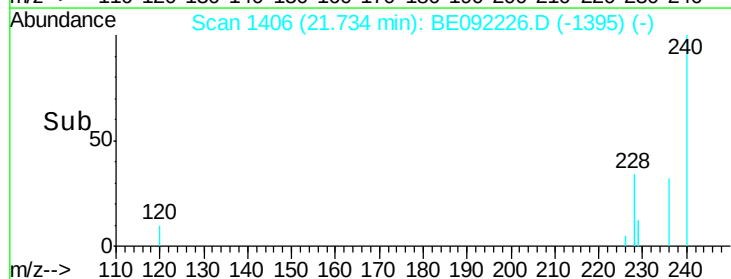
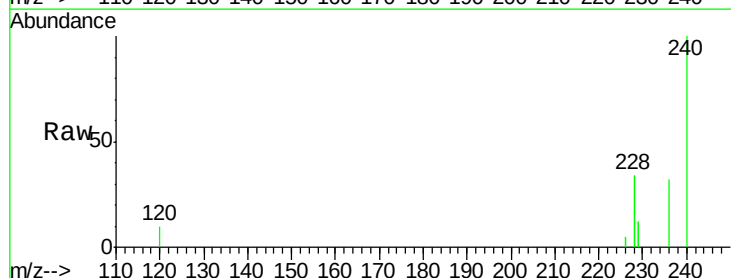
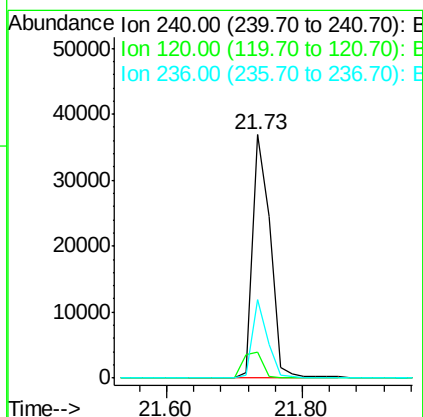
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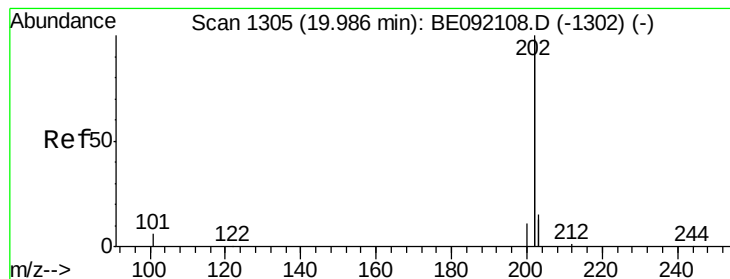
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#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.73 min Scan# 1406
 Delta R.T. -0.02 min
 Lab File: BE092226.D
 Acq: 8 Aug 2016 21:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	10.4	0.6	1.0#
236	32.3	18.2	27.4#





#23

Pyrene

Concen: 2.77 ng

RT: 19.99 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Instrument :

BNA_E

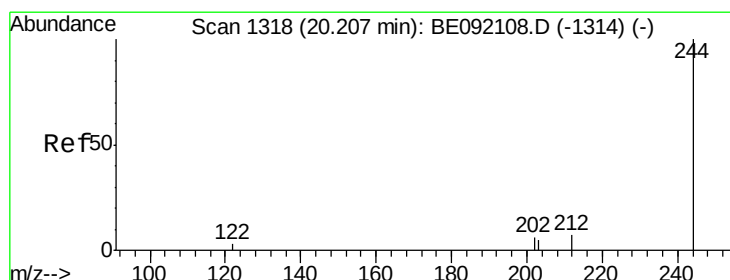
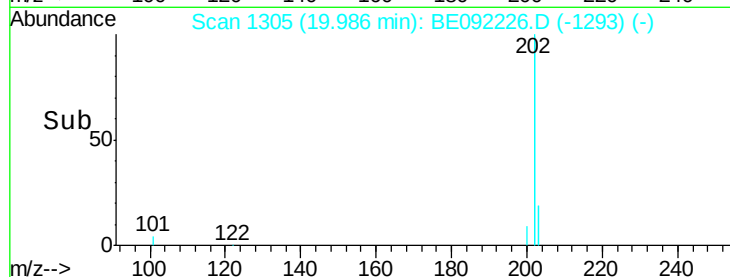
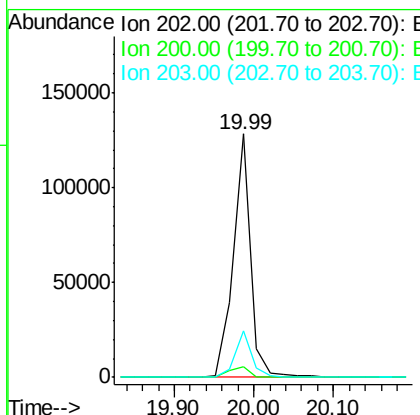
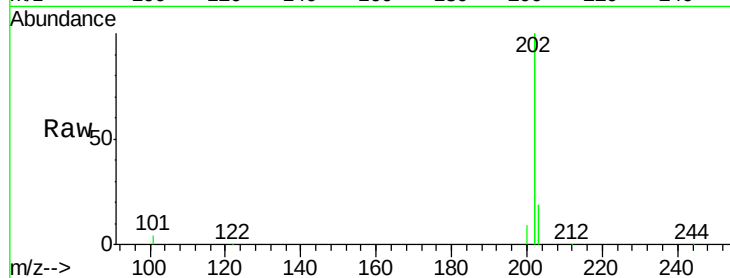
ClientSampleId :

PB92747BSD

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	190920		
200	5.2	4.4	6.6	
203	18.4	13.4	20.0	

Manual Integrations
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#24

Terphenyl-d14

Concen: 2.93 ng

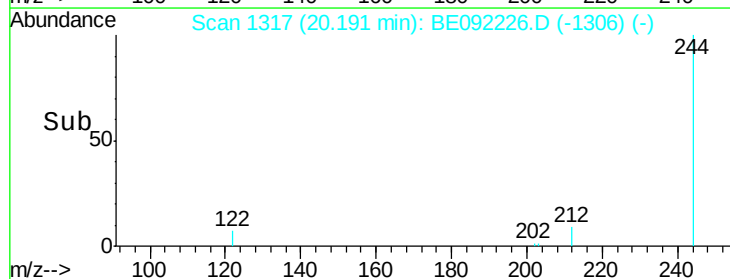
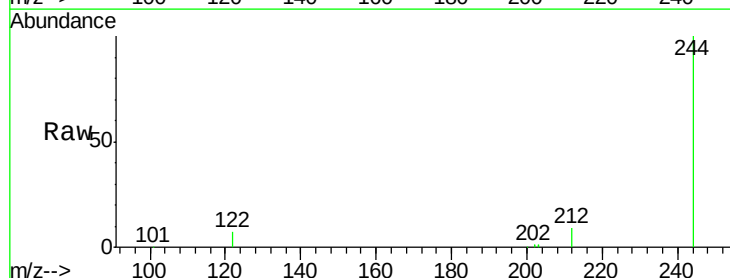
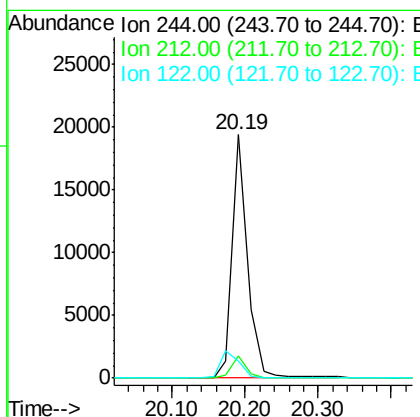
RT: 20.19 min Scan# 1317

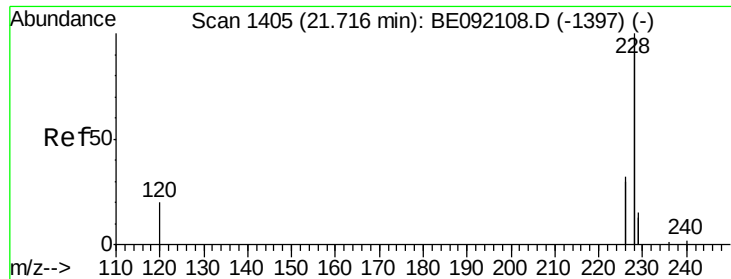
Delta R.T. -0.02 min

Lab File: BE092226.D

Acq: 8 Aug 2016 21:28

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	27753		
212	8.9	9.1	13.7#	
122	7.0	11.0	16.4#	





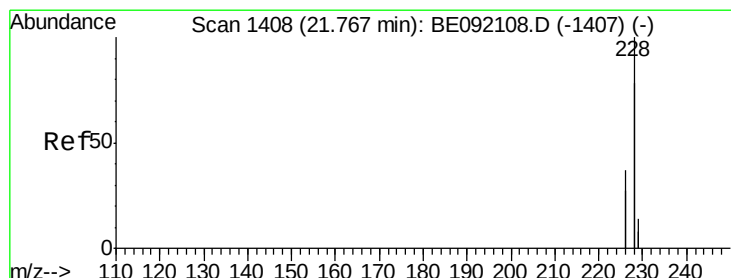
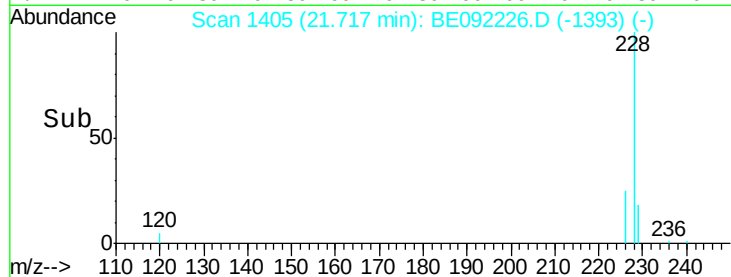
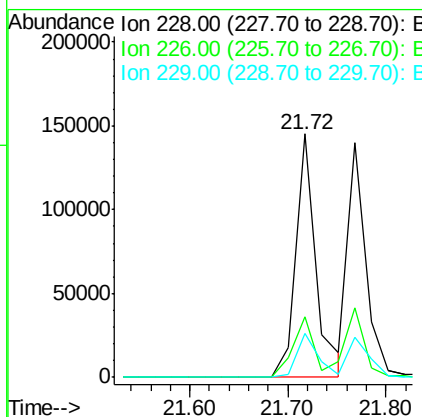
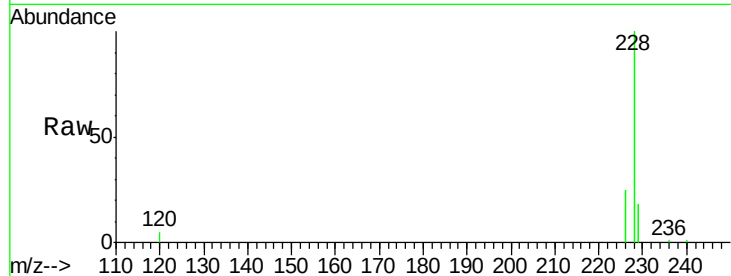
#25
Benzo(a)anthracene
Concen: 2.83 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

Instrument :
BNA_E
ClientSampleId :
PB92747BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	25.1	22.1	33.1
229	18.1	15.1	22.7

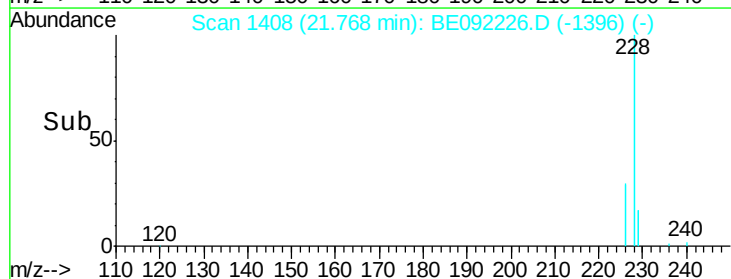
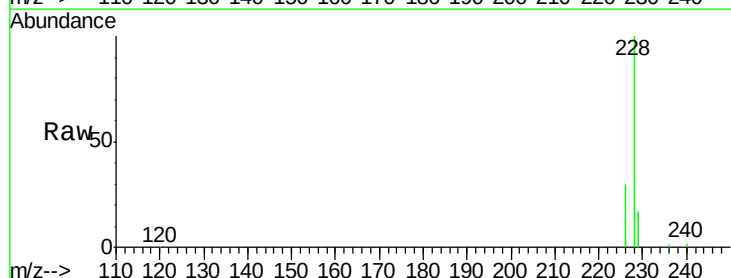
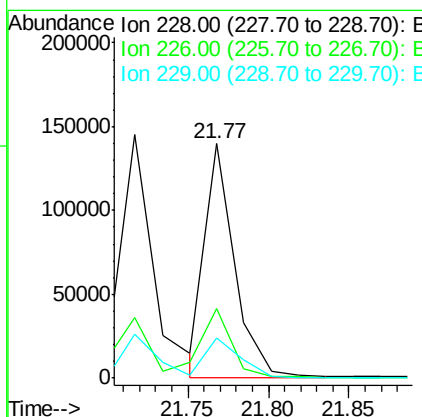
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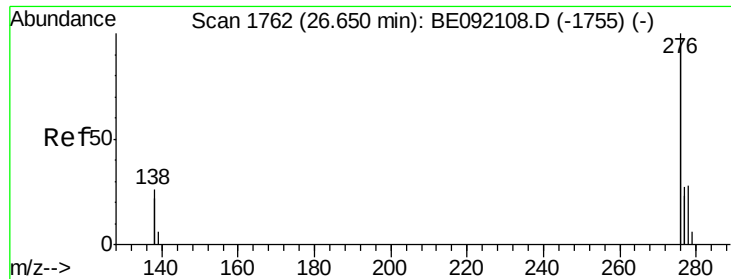
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#26
Chrysene
Concen: 2.51 ng m
RT: 21.77 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

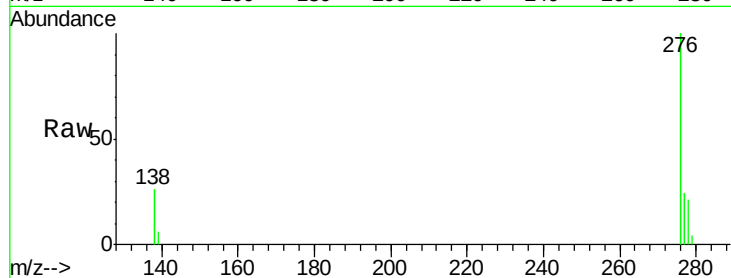
Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.6	22.3	33.5
229	16.9	16.9	25.3#





#27
 Indeno(1,2,3-cd)pyrene
 Concen: 3.21 ng
 RT: 26.63 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BE092226.D
 Acq: 8 Aug 2016 21:28

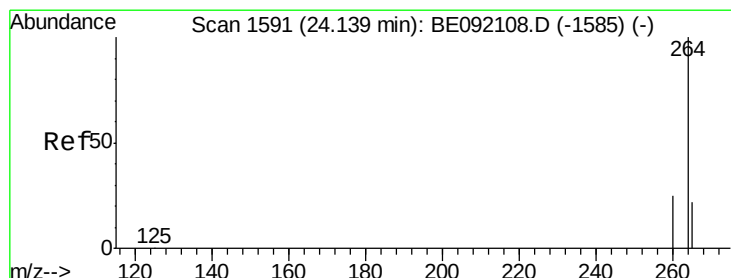
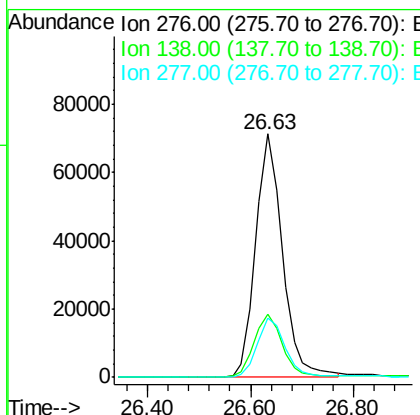
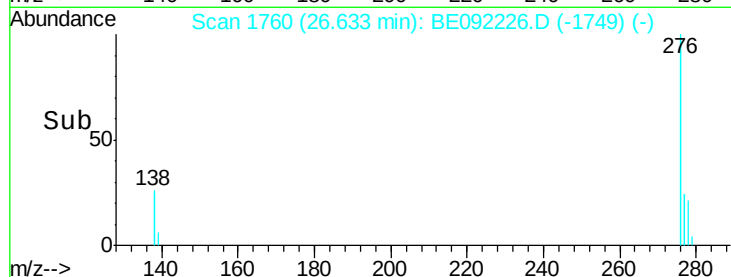
Instrument :
 BNA_E
 ClientSampleId :
 PB92747BSD



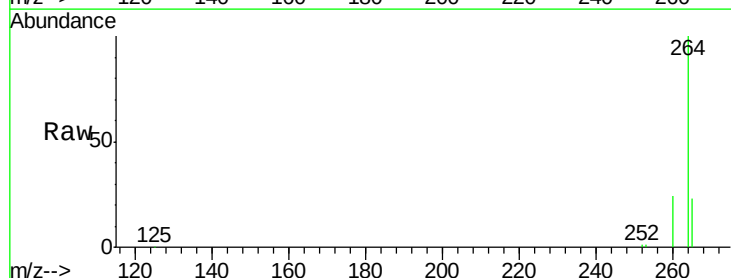
Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.9	21.2	31.8
277	24.9	19.8	29.8

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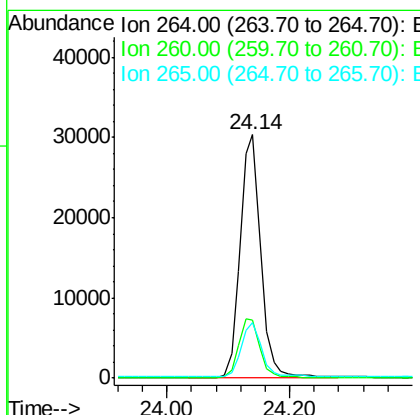
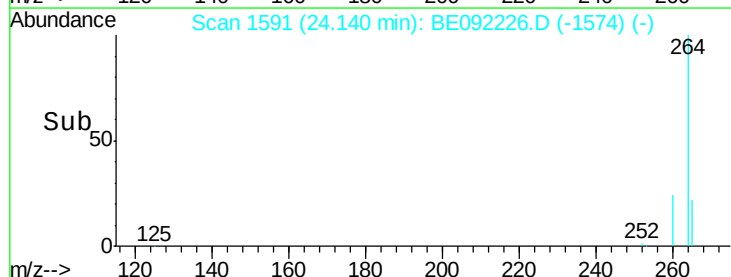
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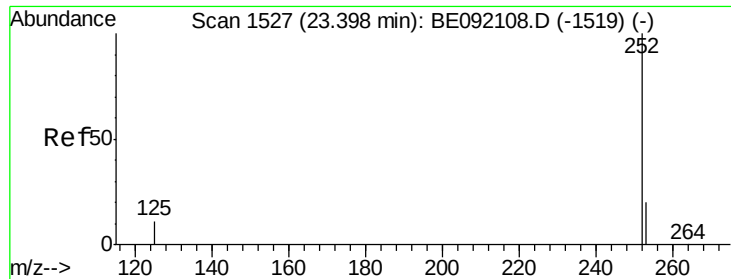


#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092226.D
 Acq: 8 Aug 2016 21:28



Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.0	20.8	31.2
265	22.8	16.6	25.0





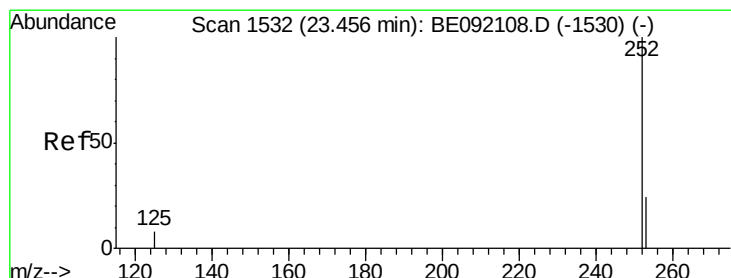
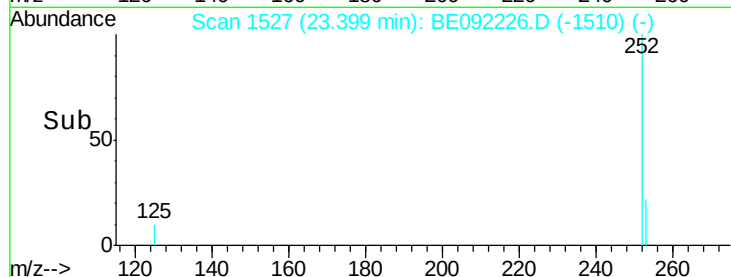
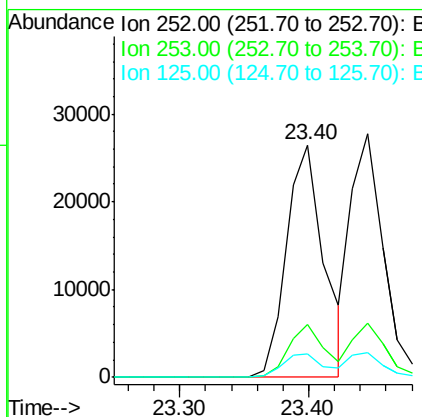
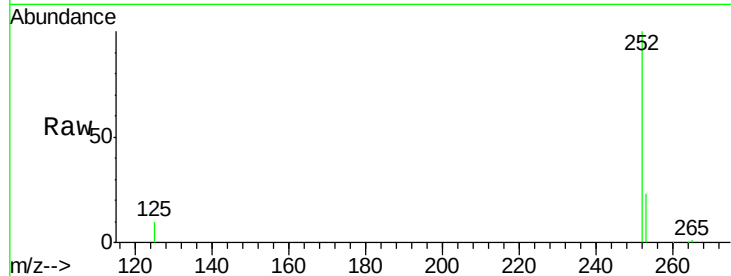
#29
Benzo(b)fluoranthene
Concen: 2.75 ng
RT: 23.40 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

Instrument :
BNA_E
ClientSampleId :
PB92747BSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.4	26.0
125	10.0	10.2	15.2

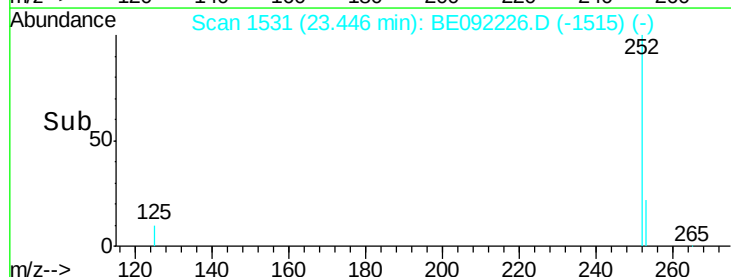
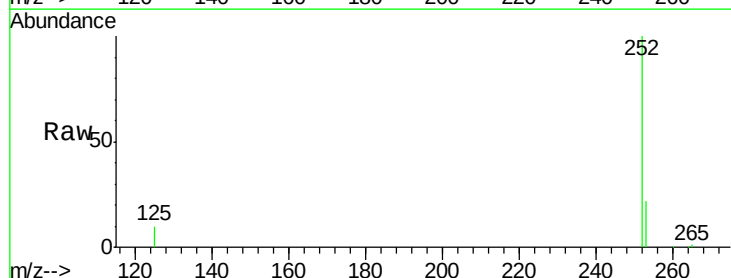
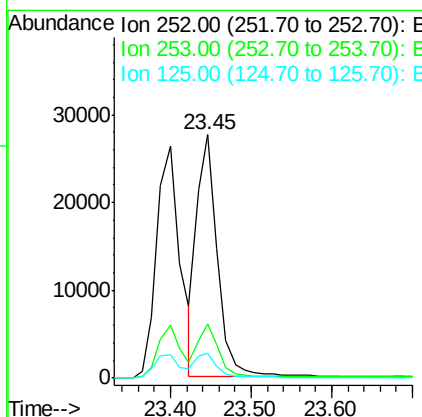
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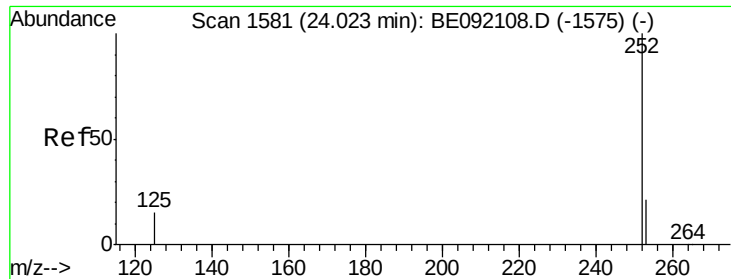
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#30
Benzo(k)fluoranthene
Concen: 2.65 ng
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

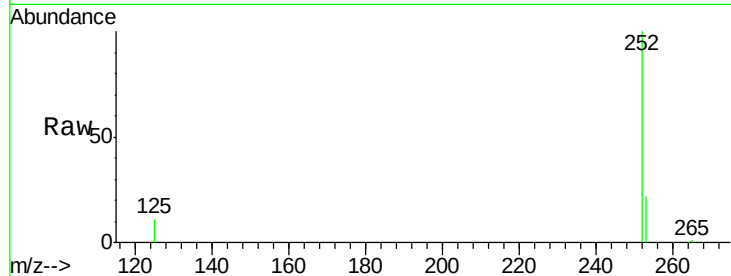
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.4	29.0
125	9.9	8.9	13.3





#31
Benzo(a)pyrene
Concen: 2.80 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

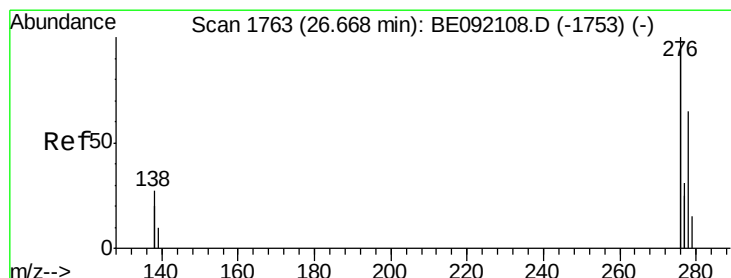
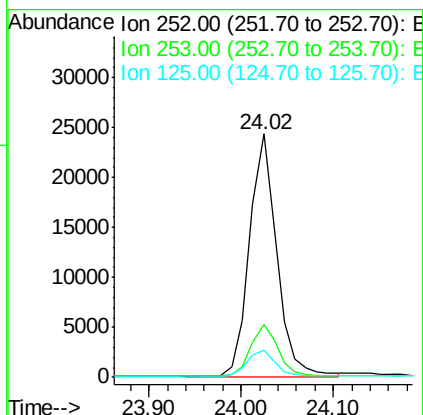
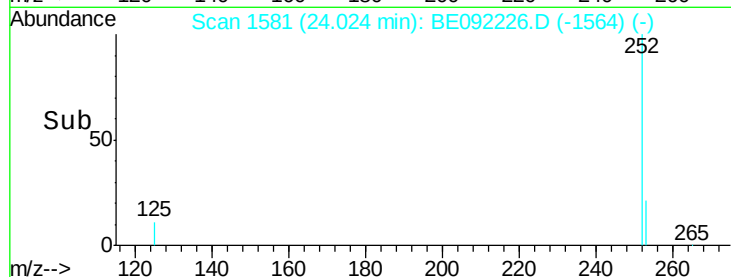
Instrument :
BNA_E
ClientSampleId :
PB92747BSD



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

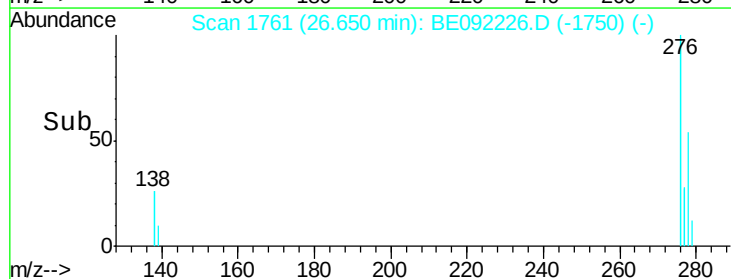
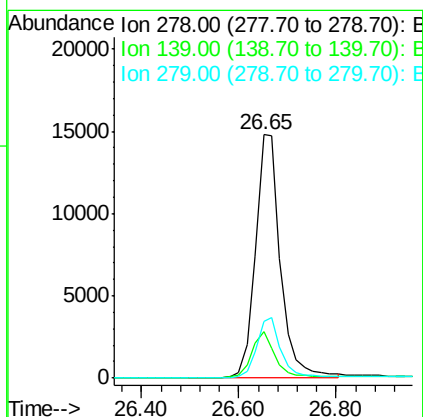
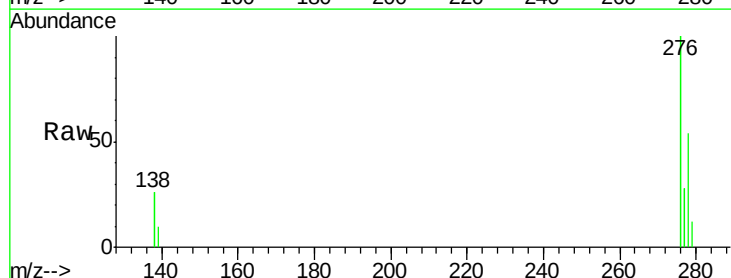
Manual Integrations
APPROVED

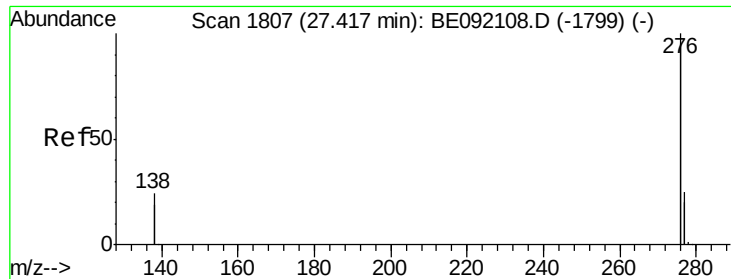
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8/9/2016 2:39:24 PM



#32
Dibenzo(a,h)anthracene
Concen: 3.11 ng
RT: 26.65 min Scan# 1761
Delta R.T. -0.02 min
Lab File: BE092226.D
Acq: 8 Aug 2016 21:28

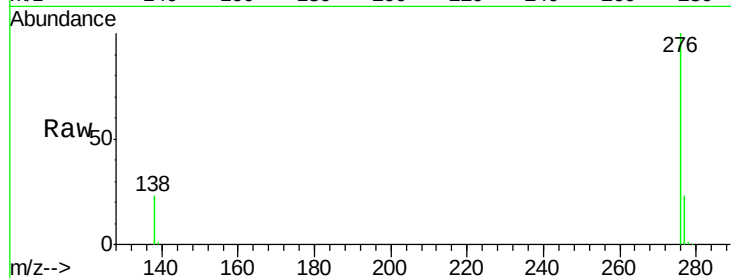
Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.0	16.7	25.1
279	23.1	20.3	30.5





#33
 Benzo(g,h,i)perylene
 Concen: 3.05 ng
 RT: 27.40 min Scan# 1805
 Delta R.T. -0.02 min
 Lab File: BE092226.D
 Acq: 8 Aug 2016 21:28

Instrument :
 BNA_E
 ClientSampleId :
 PB92747BSD



Tgt	Ion	276	Resp	221711
Ion	Ratio	Lower	Upper	
276	100			
277	22.7	19.5	29.3	
138	23.4	20.8	31.2	

Manual Integrations
 APPROVED

umangi
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