

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021517\
 Data File : BE092738.D
 Acq On : 15 Feb 2017 18:07
 Operator : SJ/MA
 Sample : PB96882BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB96882BS

Manual Integrations
 APPROVED

mohammad
 2/16/2017 11:47:25 AM

Quant Time: Feb 16 03:31:52 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE021517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 15 17:05:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	10026	5.00	ng	0.00
7) Naphthalene-d8	10.88	136	44861	5.00	ng	-0.02
12) Acenaphthene-d10	14.76	164	25833	5.00	ng	0.00
18) Phenanthrene-d10	17.51	188	51503	5.00	ng	0.00
24) Chrysene-d12	21.70	240	52570	5.00	ng	0.00
31) Perylene-d12	24.03	264	50080	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.61	112	21790	11.17	ng	-0.02
5) Phenol-d6	7.27	99	27921	11.67	ng	-0.05
8) Nitrobenzene-d5	9.27	82	13914	4.60	ng	-0.05
13) 2,4,6-Tribromophenol	16.25	330	6123	11.17	ng	-0.03
14) 2-Fluorobiphenyl	13.38	172	28652	4.55	ng	-0.02
26) Terphenyl-d14	20.12	244	32971	4.91	ng	-0.02

Target Compounds						Qvalue
2) 1,4-Dioxane	3.34	88	4810	3.86	ng	# 75
3) n-Nitrosodimethylamine	3.70	42	7651	4.17	ng	# 95
6) bis(2-Chloroethyl)ether	7.52	93	13311	5.03	ng	91
9) Naphthalene	10.93	128	38447	3.96	ng	94
10) Hexachlorobutadiene	11.22	225	5803	4.06	ng	99
11) 2-Methylnaphthalene	12.57	142	24729	4.05	ng	# 85
15) Acenaphthylene	14.48	152	157378	4.04	ng	100
16) Acenaphthene	14.82	154	23673	4.18	ng	93
17) Fluorene	15.81	166	29867	4.11	ng	99
19) Hexachlorobenzene	16.84	284	7505	3.77	ng	# 39
20) Pentachlorophenol	17.19	266	5367	9.14	ng	# 88
21) Phenanthrene	17.56	178	48104	3.93	ng	94
22) Anthracene	17.65	178	47653	4.23	ng	98
23) Fluoranthene	19.56	202	205723	3.92	ng	100
25) Pyrene	19.92	202	222209	4.44	ng	99
27) Benzo(a)anthracene	21.68	228	209762	4.11	ng	# 79
28) Chrysene	21.72	228	240544m	3.98	ng	
29) Bis(2-ethylhexyl)phthalate	21.59	149	31380	4.46	ng	# 76
30) Indeno(1,2,3-cd)pyrene	26.48	276	252692	4.03	ng	97
32) Benzo(b)fluoranthene	23.30	252	52655	4.01	ng	95
33) Benzo(k)fluoranthene	23.35	252	56746	4.05	ng	93
34) Benzo(a)pyrene	23.91	252	52754	4.10	ng	95
35) Dibenzo(a,h)anthracene	26.50	278	52327	4.13	ng	96
36) Benzo(g,h,i)perylene	27.25	276	217980	4.15	ng	96

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

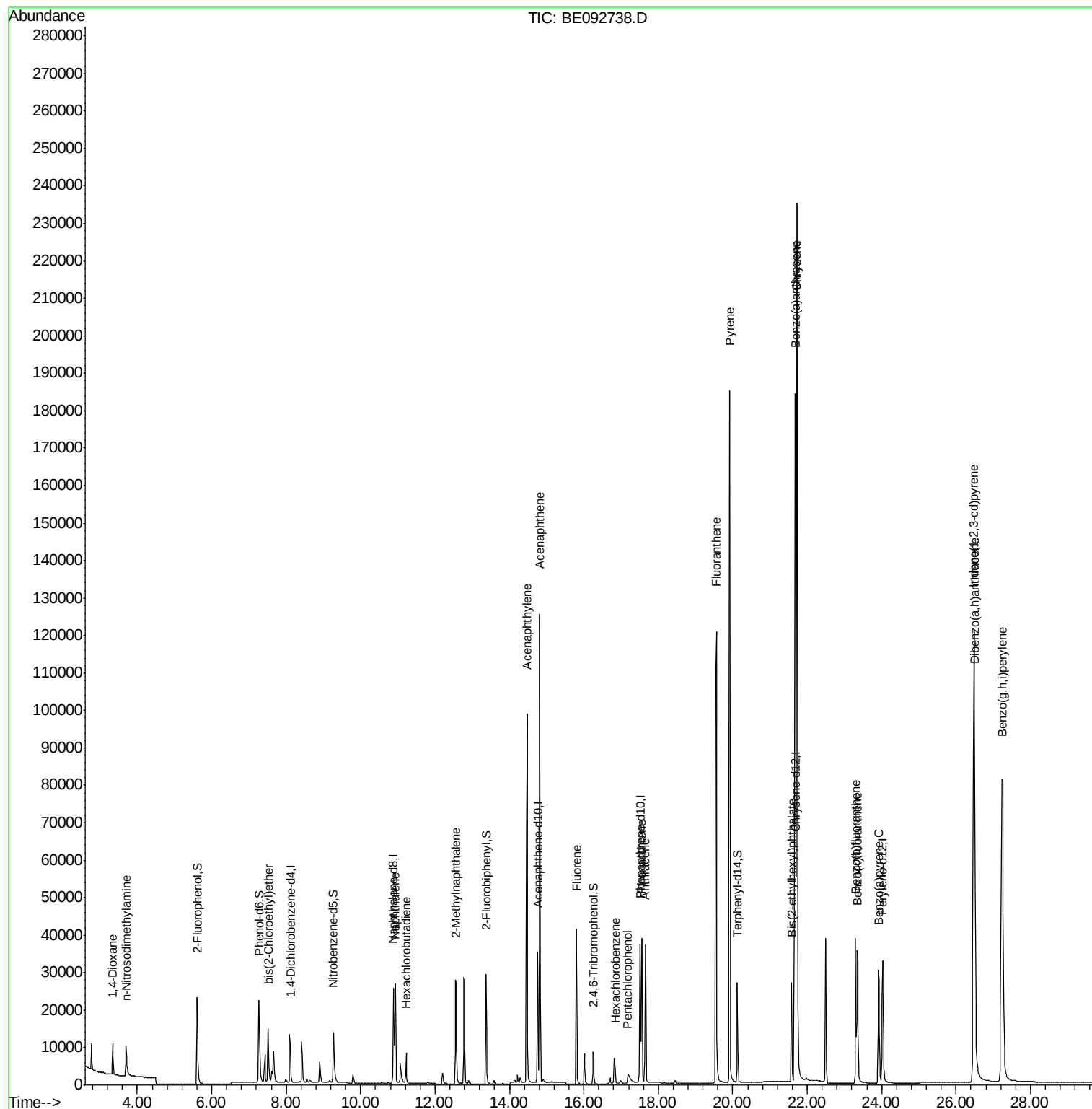
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021517\
Data File : BE092738.D
Acq On : 15 Feb 2017 18:07
Operator : SJ/MA
Sample : PB96882BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

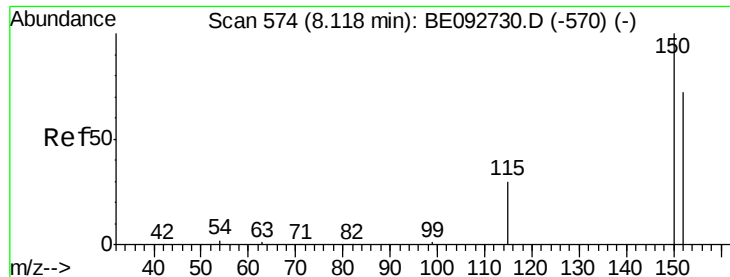
Instrument :
BNA_E
ClientSampleId :
PB96882BS

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2/16/2017 11:47:25 AM

Quant Time: Feb 16 03:31:52 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE021517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 15 17:05:20 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.12 min Scan# 574

Delta R.T. -0.00 min

Lab File: BE092738.D

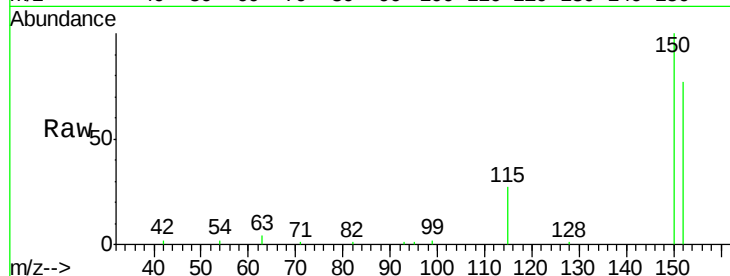
Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

ClientSampleId :

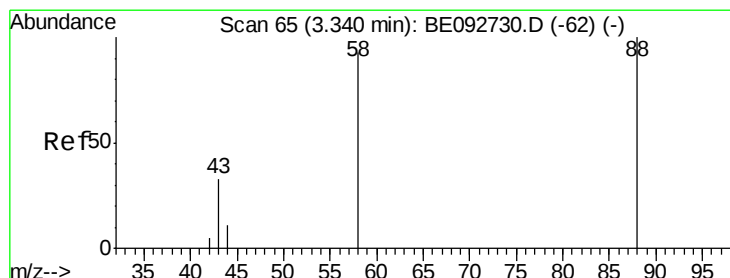
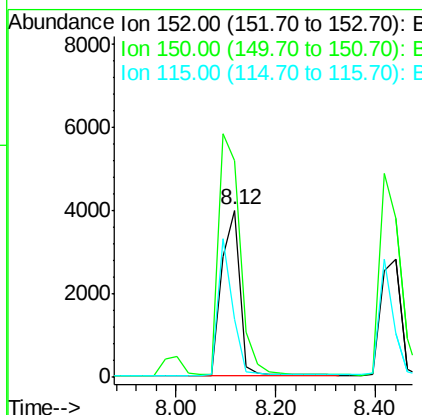
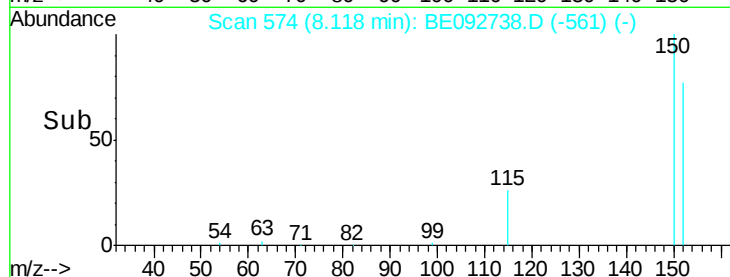
PB96882BS



Tgt Ion:	152	Resp:	10026
Ion Ratio	Lower	Upper	
152	100		
150	129.4	106.0	159.0
115	34.8	31.2	46.8

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#2

1,4-Dioxane

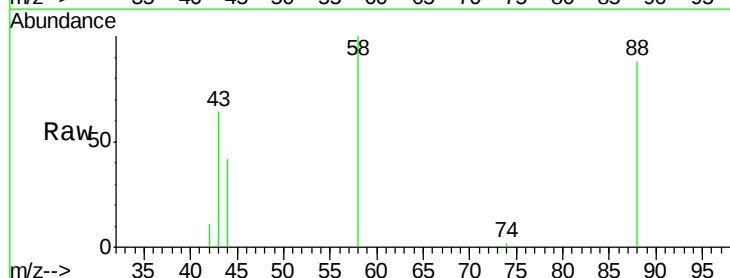
Concen: 3.86 ng

RT: 3.34 min Scan# 65

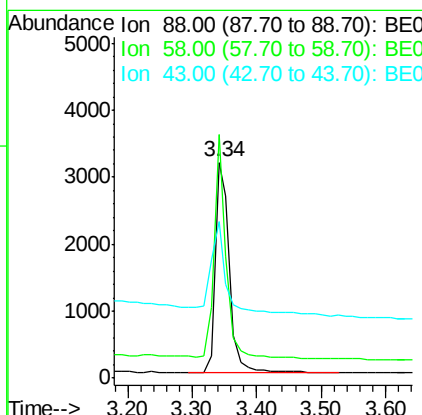
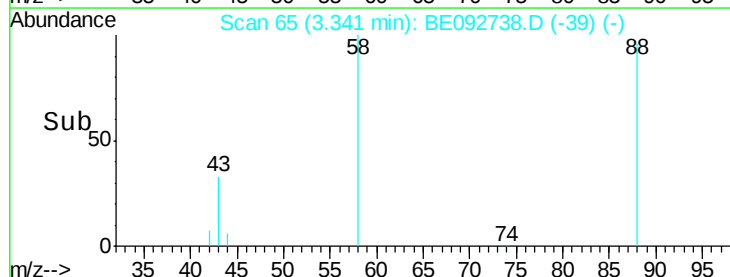
Delta R.T. 0.00 min

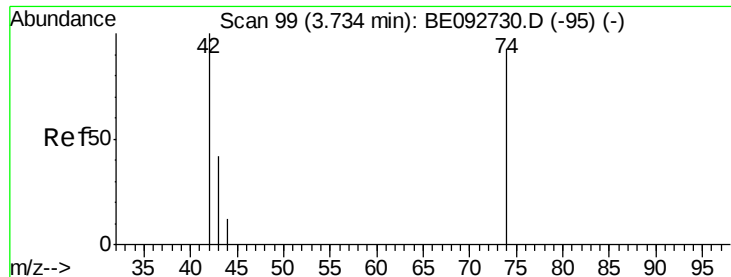
Lab File: BE092738.D

Acq: 15 Feb 2017 18:07



Tgt Ion:	88	Resp:	4810
Ion Ratio	Lower	Upper	
88	100		
58	94.7	63.6	95.4
43	59.4	28.0	42.0





#3

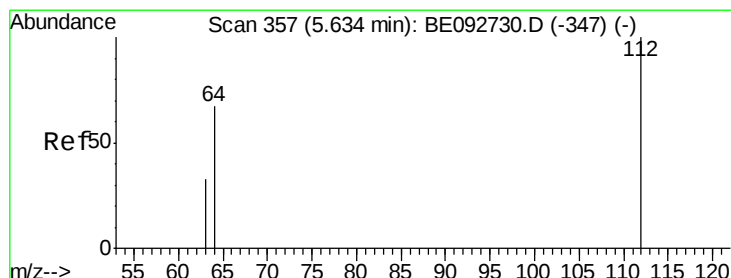
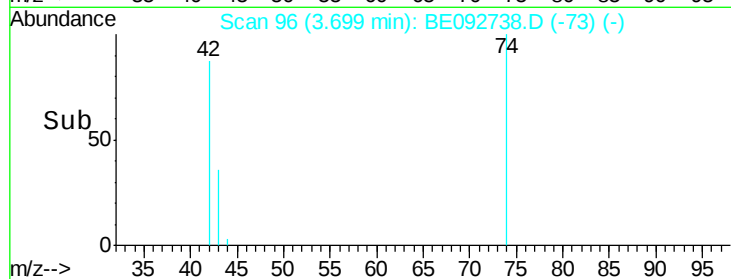
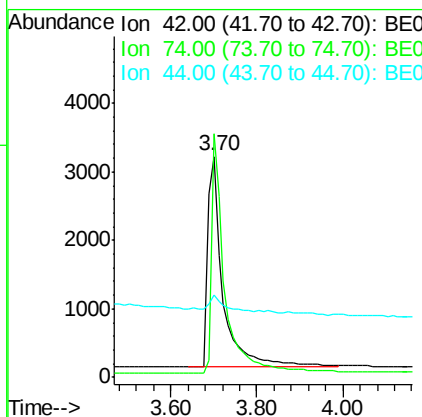
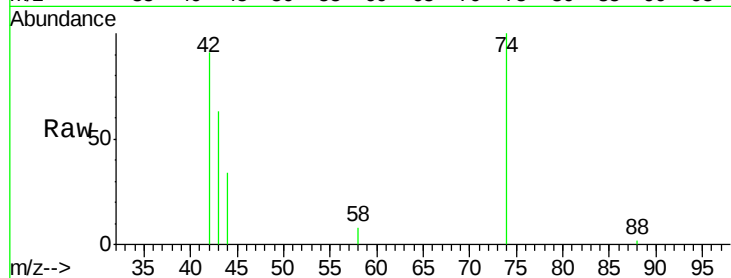
n-Nitrosodimethylamine
Concen: 4.17 ng
RT: 3.70 min Scan# 96
Delta R.T. -0.03 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion	Ratio	Lower	Upper
42	100		
74	102.5	86.0	129.0
44	11.4	5.1	7.7#

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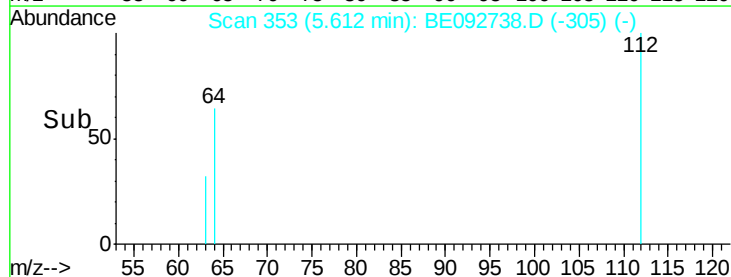
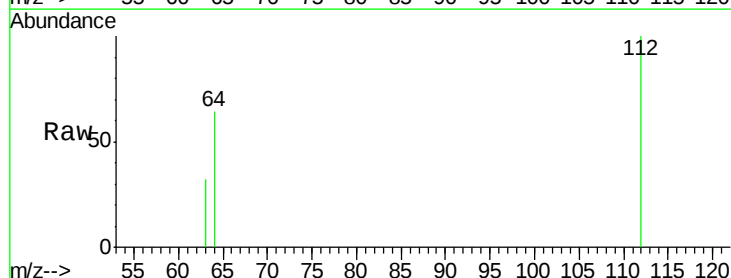
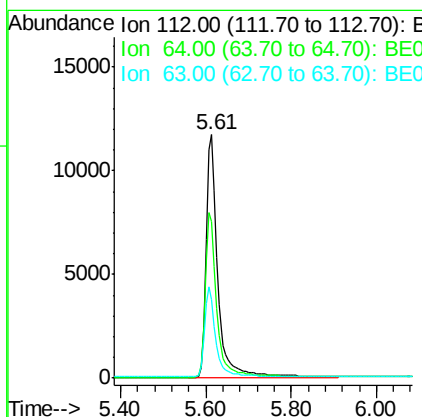
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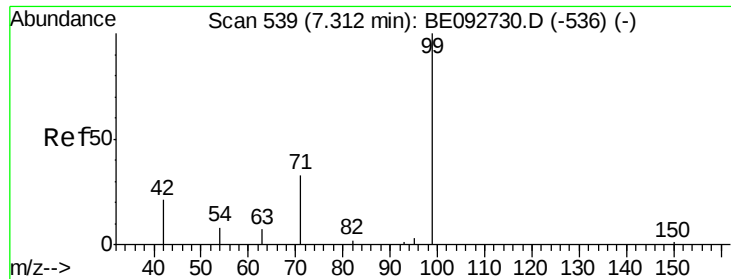


#4

2-Fluorophenol
Concen: 11.17 ng
RT: 5.61 min Scan# 353
Delta R.T. -0.02 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.1	53.5	80.3
63	36.3	27.9	41.9





#5

Phenol-d6

Concen: 11.67 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.05 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

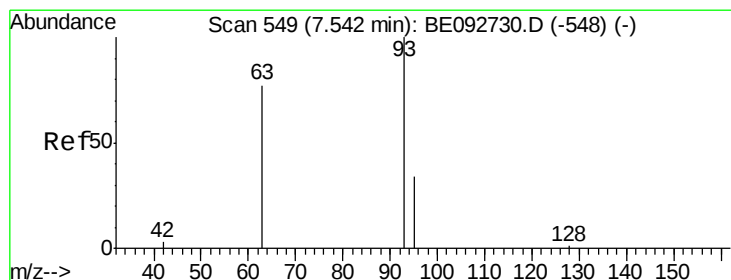
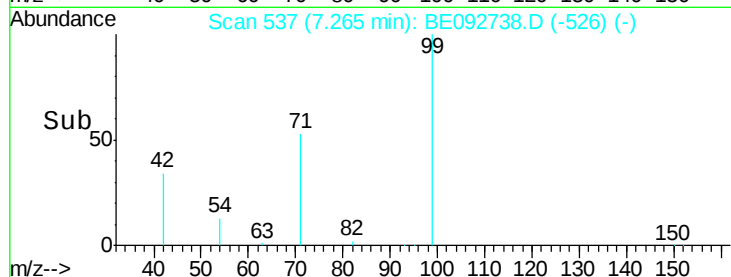
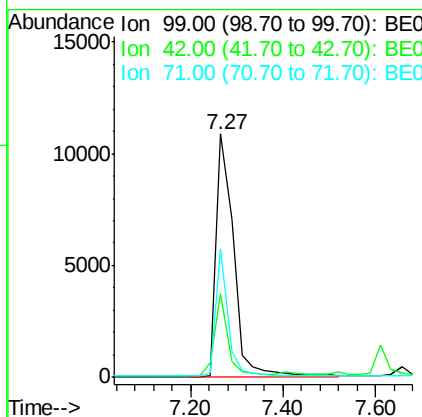
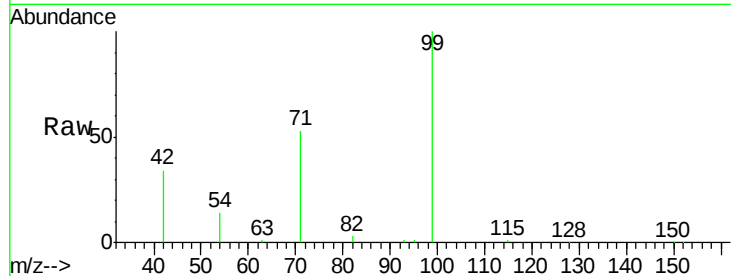
ClientSampleId :

PB96882BS

Tgt Ion:	99	Resp:	27921
Ion Ratio	Lower	Upper	
99	100		
42	25.4	16.0	24.0#
71	37.8	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 5.03 ng

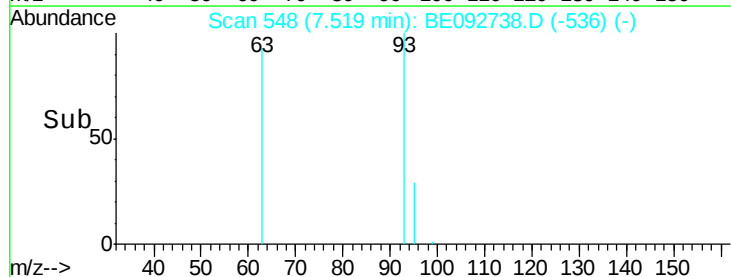
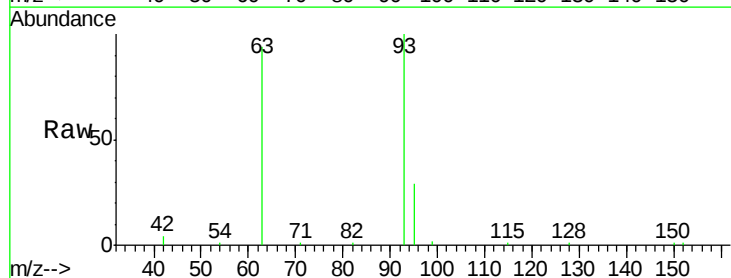
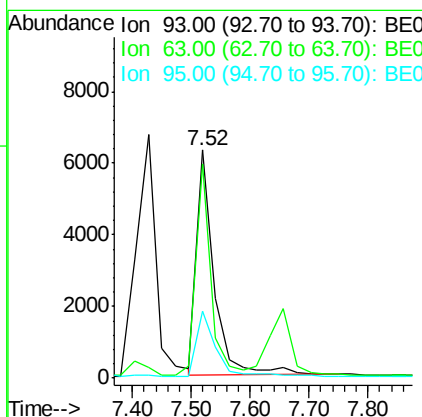
RT: 7.52 min Scan# 548

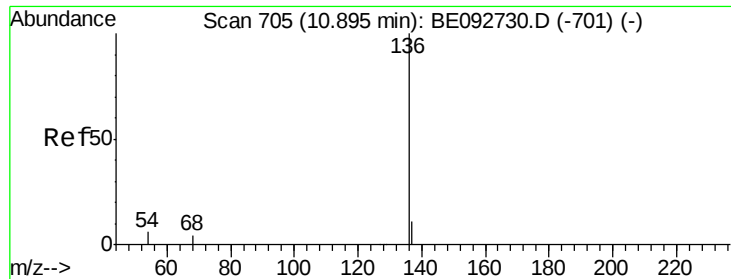
Delta R.T. -0.02 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Tgt Ion:	93	Resp:	13311
Ion Ratio	Lower	Upper	
93	100		
63	79.4	71.6	107.4
95	31.3	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.88 min Scan# 704

Delta R.T. -0.02 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

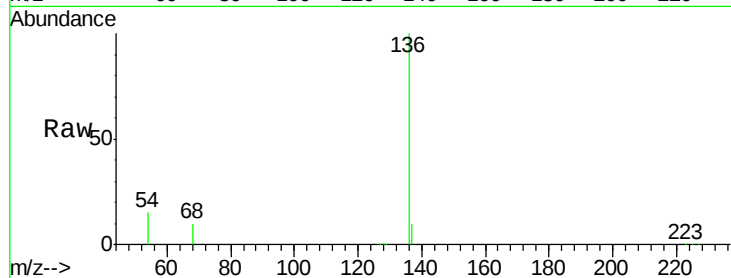
ClientSampleId :

PB96882BS

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	44861		
137	10.0	8.2	12.4	
54	14.7	9.6	14.4	
68	9.8	6.7	10.1	

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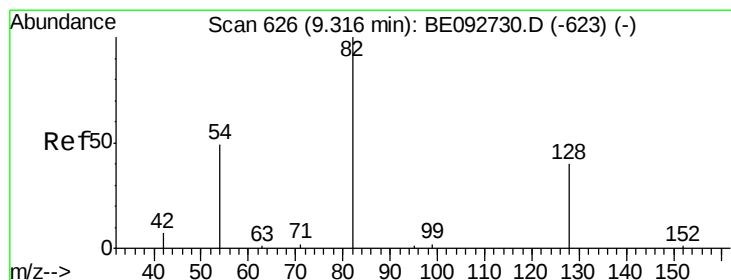
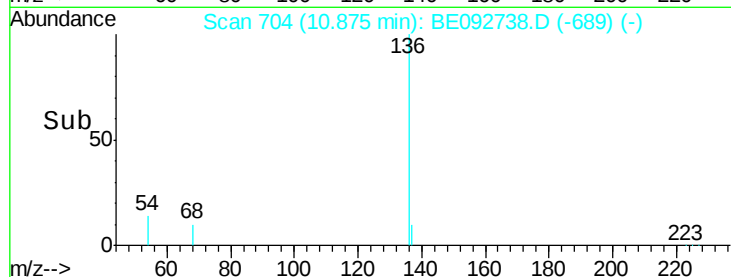
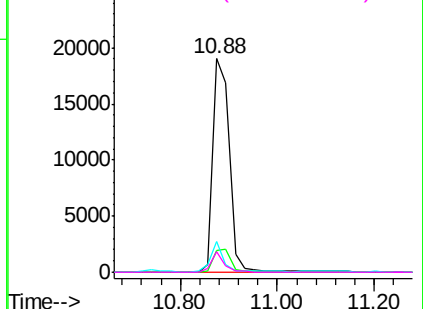


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 4.60 ng

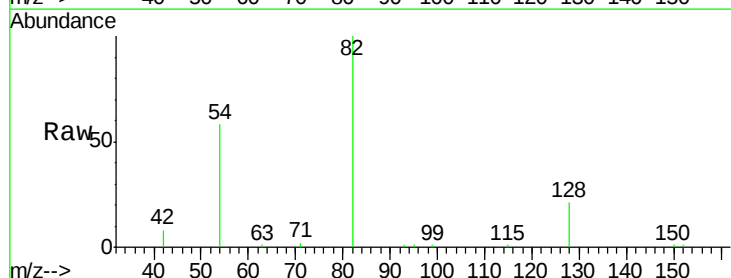
RT: 9.27 min Scan# 624

Delta R.T. -0.05 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

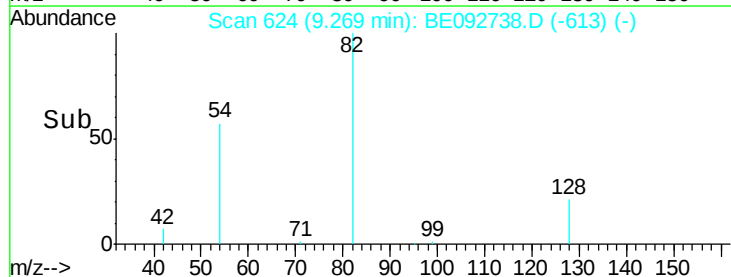
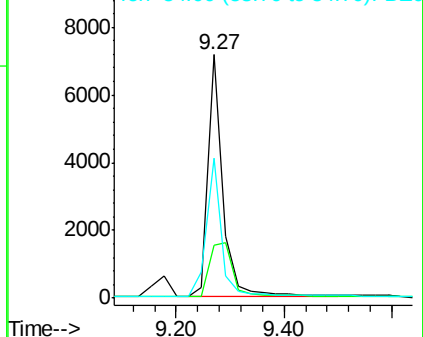
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	13914		
128	21.5	39.0	58.4	
54	57.6	44.8	67.2	

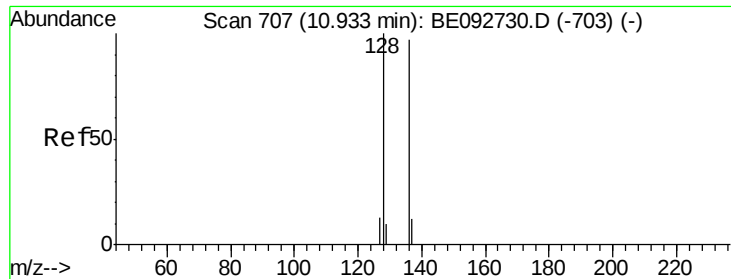


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 3.96 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092738.D

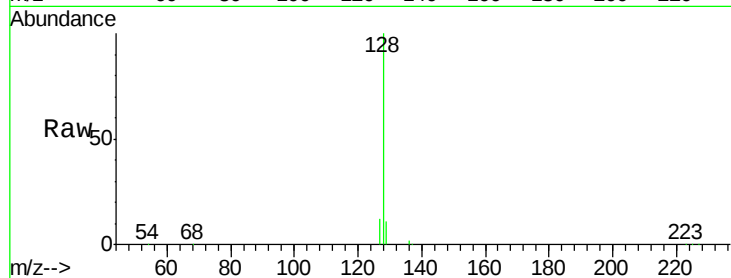
Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

ClientSampleId :

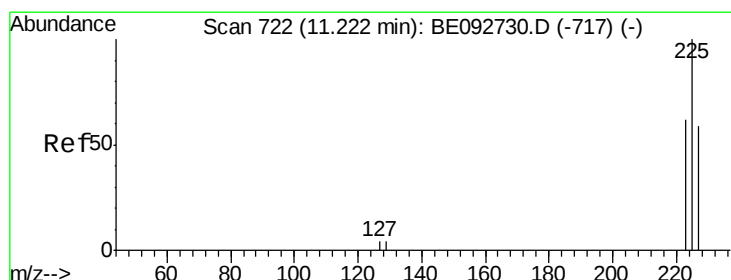
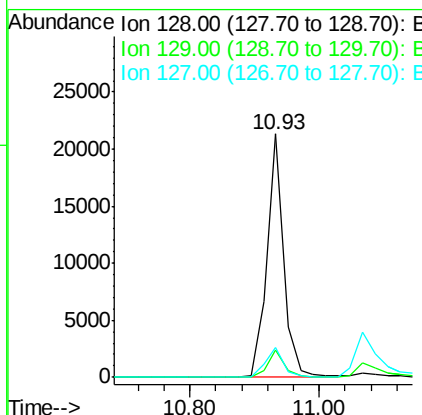
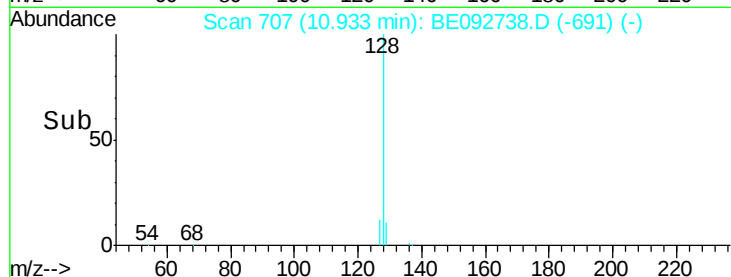
PB96882BS



Tgt Ion:	128	Resp:	38447
Ion	Ratio	Lower	Upper
128	100		
129	11.3	11.2	16.8
127	12.5	11.6	17.4

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#10

Hexachlorobutadiene

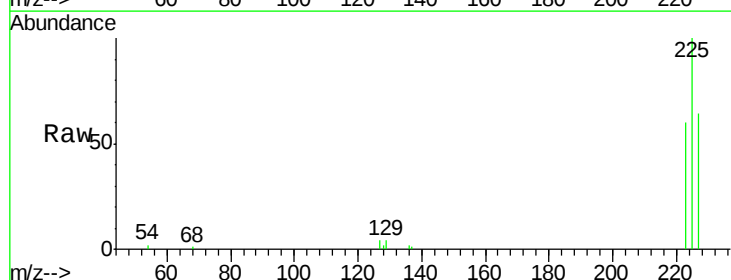
Concen: 4.06 ng

RT: 11.22 min Scan# 722

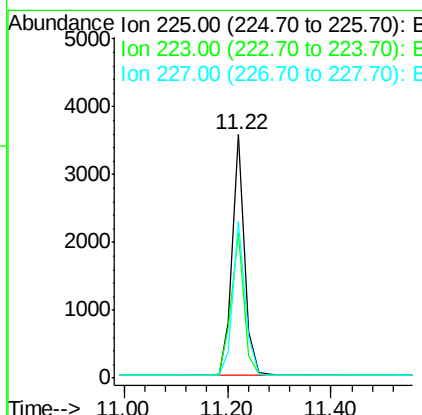
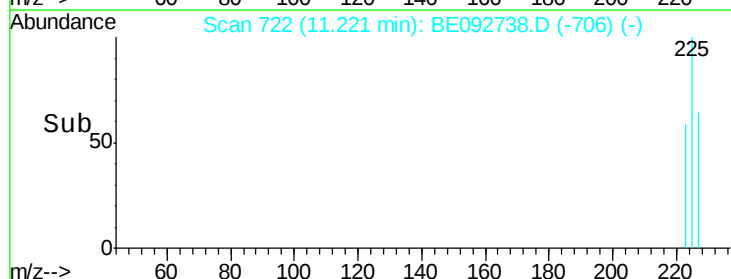
Delta R.T. -0.00 min

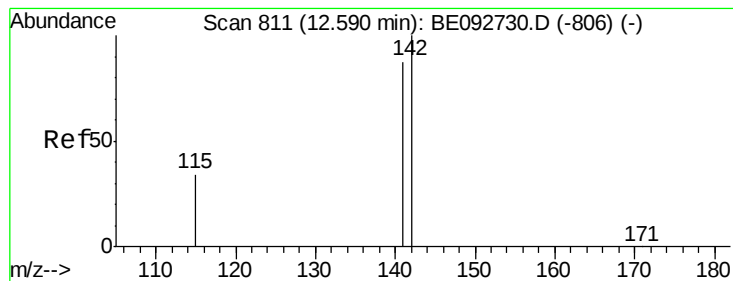
Lab File: BE092738.D

Acq: 15 Feb 2017 18:07



Tgt Ion:	225	Resp:	5803
Ion	Ratio	Lower	Upper
225	100		
223	61.7	50.6	76.0
227	63.8	51.4	77.0





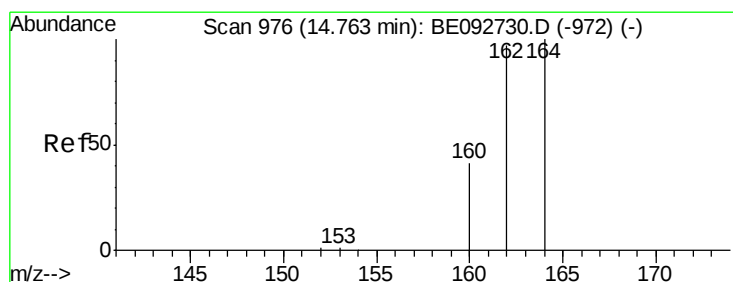
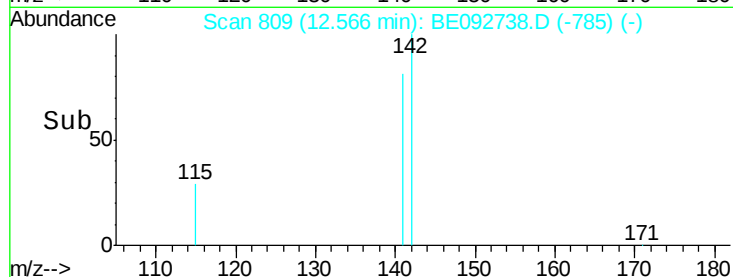
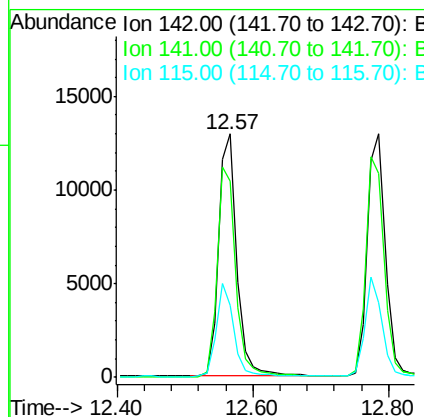
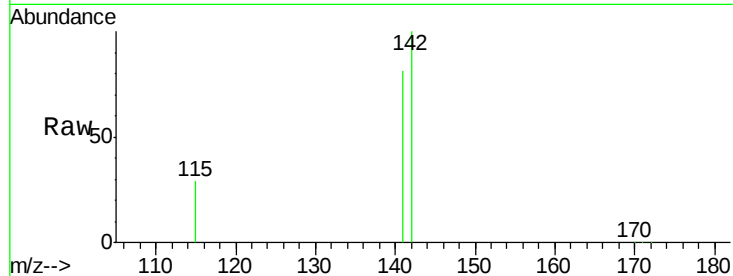
#11
2-Methylnaphthalene
Concen: 4.05 ng
RT: 12.57 min Scan# 809
Delta R.T. -0.02 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion: 142 Resp: 24729
Ion Ratio Lower Upper
142 100
141 80.5 73.7 110.5
115 29.5 34.0 51.0#

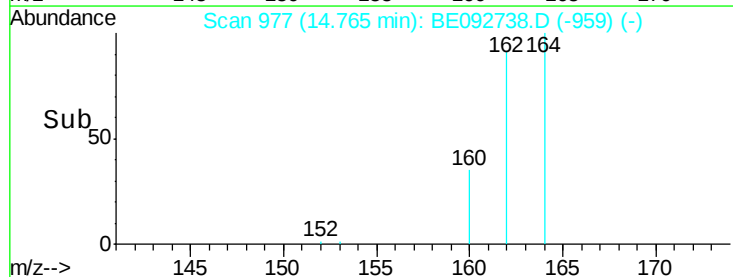
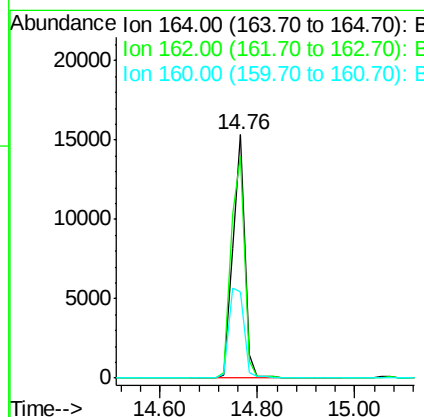
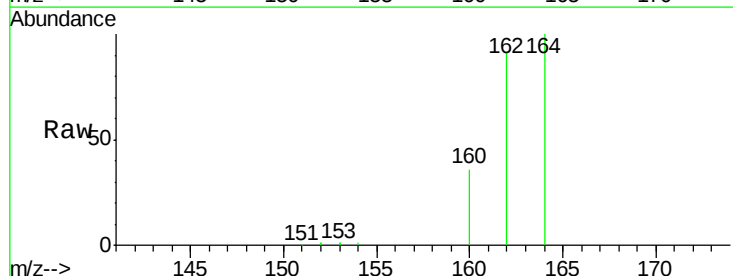
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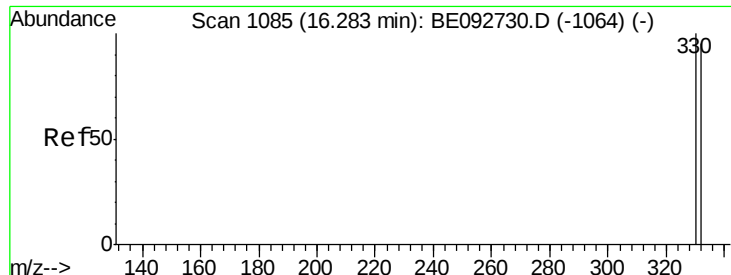
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.76 min Scan# 977
Delta R.T. 0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion: 164 Resp: 25833
Ion Ratio Lower Upper
164 100
162 91.4 71.4 107.0
160 35.6 27.4 41.2





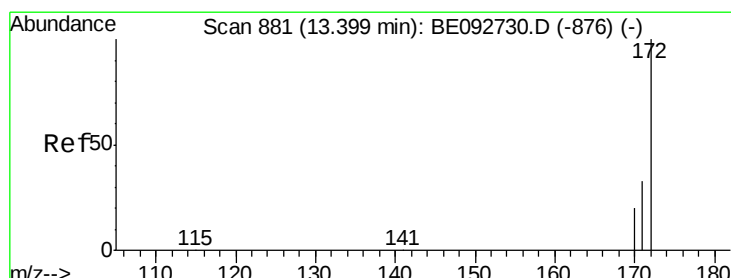
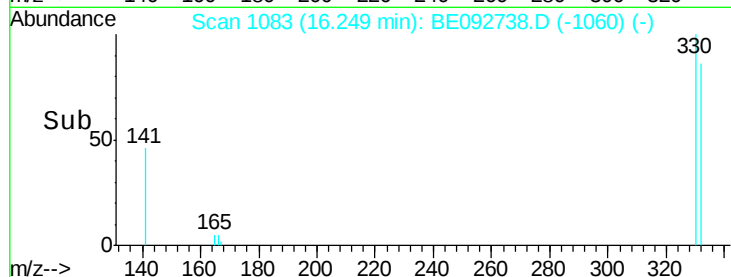
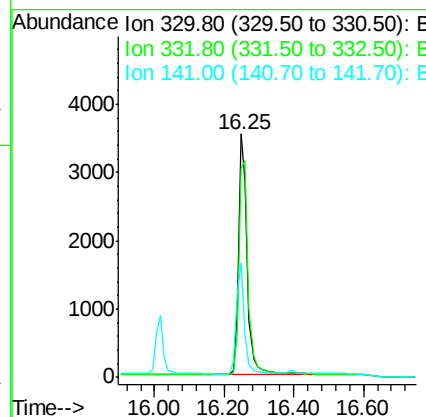
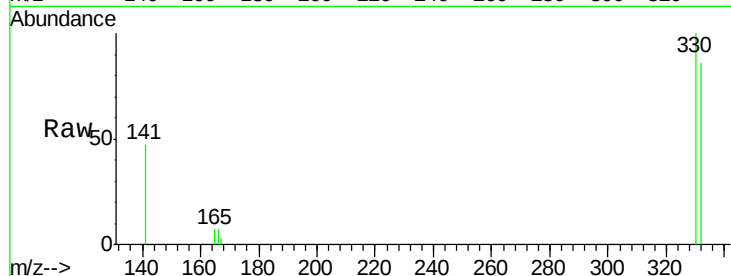
#13
 2,4,6-Tribromophenol
 Concen: 11.17 ng
 RT: 16.25 min Scan# 1083
 Delta R.T. -0.03 min
 Lab File: BE092738.D
 Acq: 15 Feb 2017 18:07

Instrument :
 BNA_E
 ClientSampleId :
 PB96882BS

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.4	113.0
141	43.7	31.0	46.6

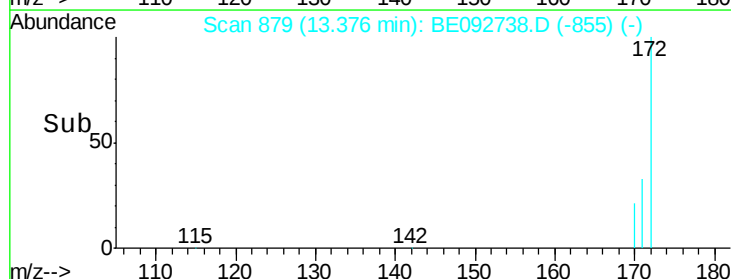
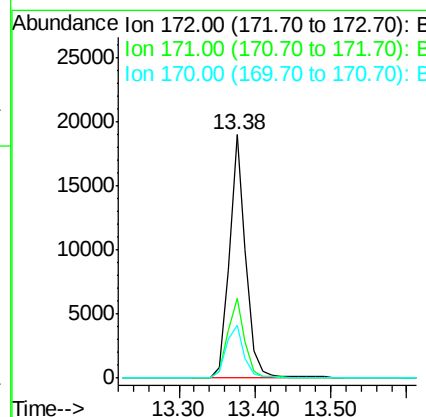
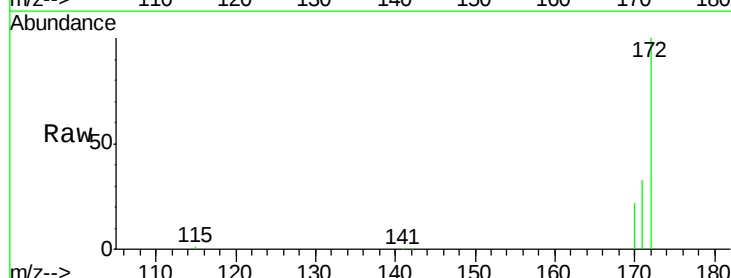
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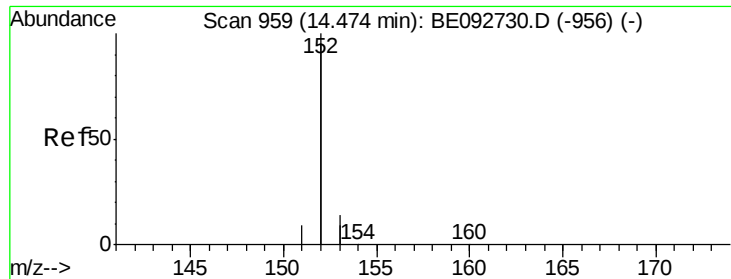
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#14
 2-Fluorobiphenyl
 Concen: 4.55 ng
 RT: 13.38 min Scan# 879
 Delta R.T. -0.02 min
 Lab File: BE092738.D
 Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.9	30.1	45.1
170	21.7	21.8	32.6#





#15

Acenaphthylene

Concen: 4.04 ng

RT: 14.48 min Scan# 960

Delta R.T. 0.00 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

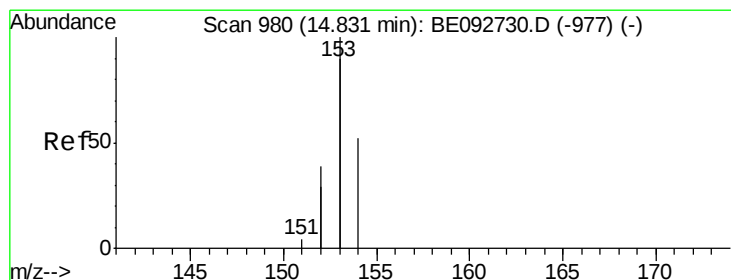
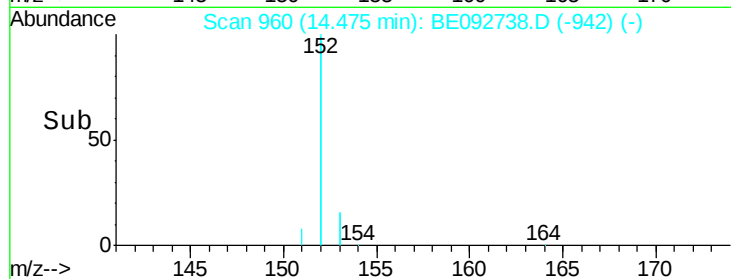
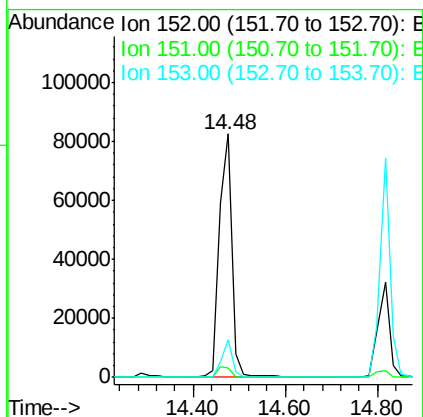
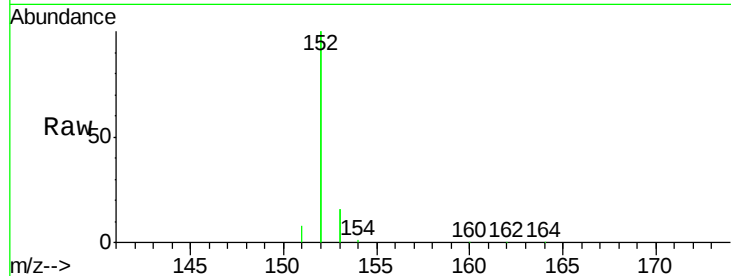
ClientSampleId :

PB96882BS

Tgt Ion:	152	Resp:	157378
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	12.9	10.4	15.6

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#16

Acenaphthene

Concen: 4.18 ng

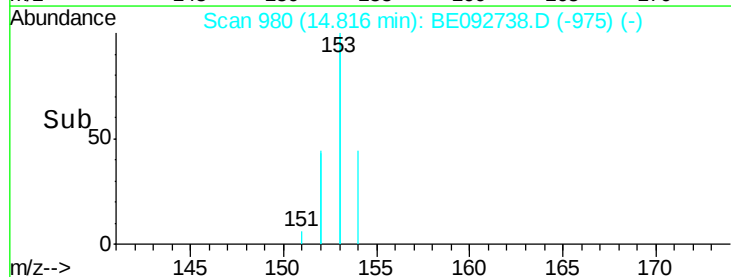
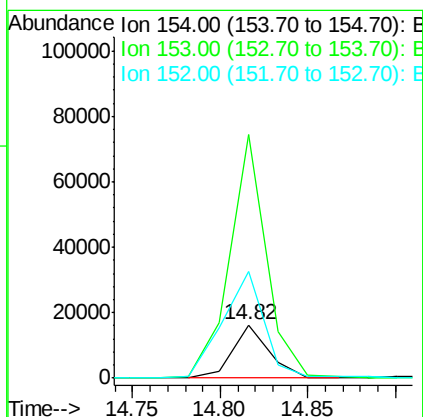
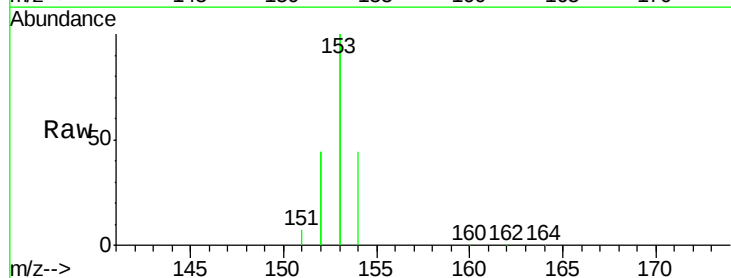
RT: 14.82 min Scan# 980

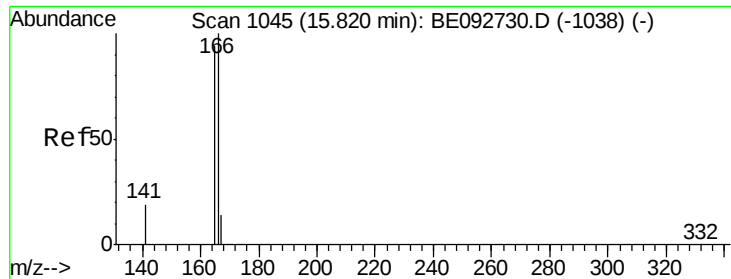
Delta R.T. -0.02 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Tgt Ion:	154	Resp:	23673
Ion Ratio	Lower	Upper	
154	100		
153	456.4	350.8	526.2
152	223.7	171.1	256.7





#17

Fluorene

Concen: 4.11 ng

RT: 15.81 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

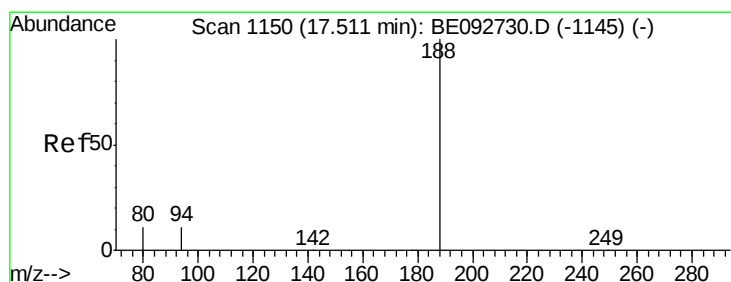
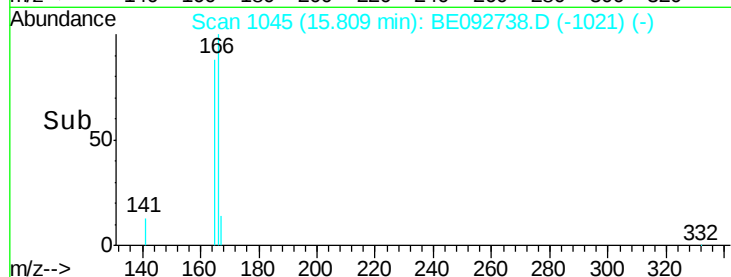
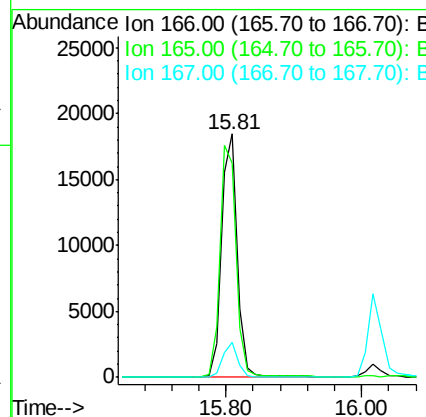
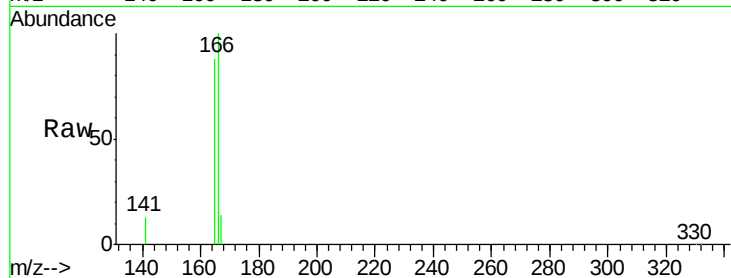
ClientSampleId :

PB96882BS

Tgt Ion:	166	Resp:	29867
Ion Ratio	Lower	Upper	
166	100		
165	99.2	78.2	117.4
167	13.4	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

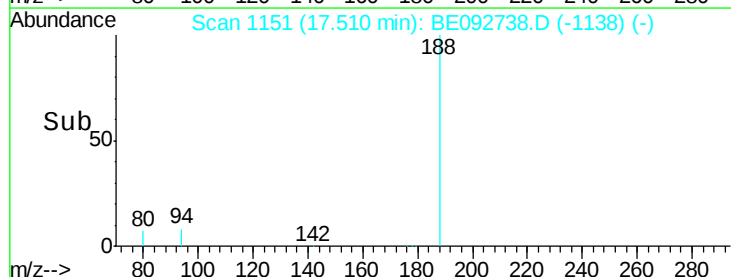
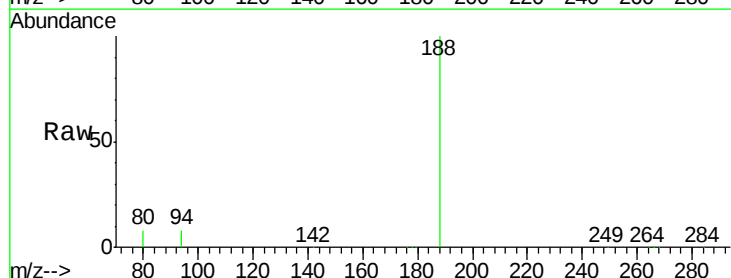
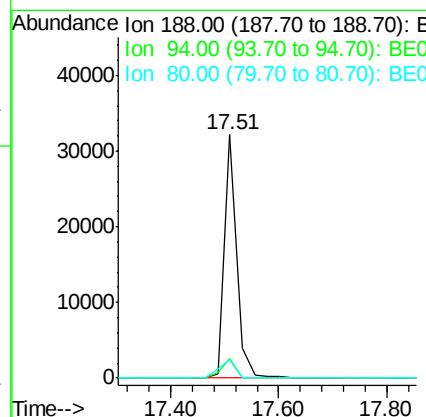
RT: 17.51 min Scan# 1151

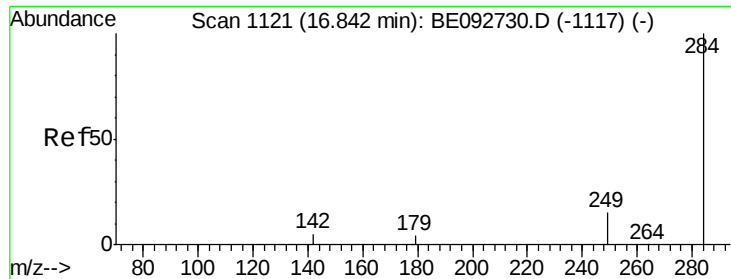
Delta R.T. -0.00 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Tgt Ion:	188	Resp:	51503
Ion Ratio	Lower	Upper	
188	100		
94	8.0	3.2	4.8#
80	7.6	2.6	3.8#





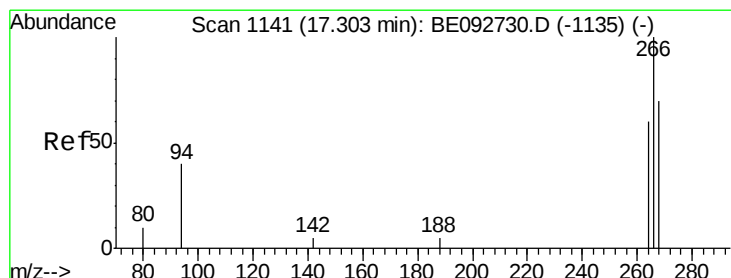
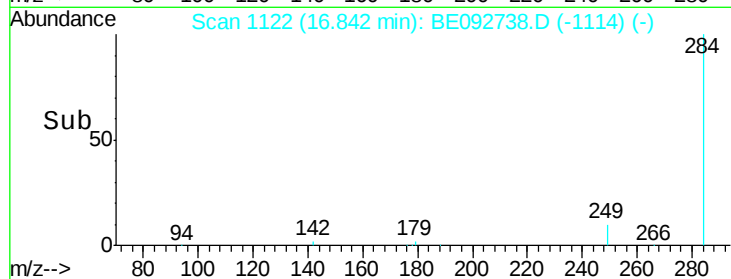
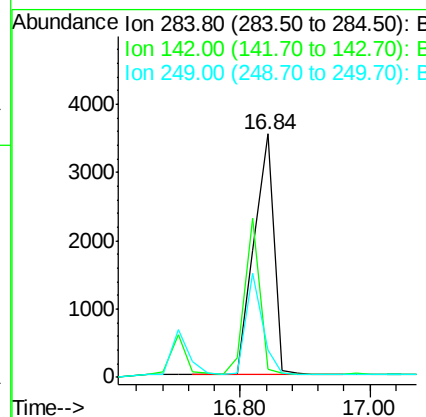
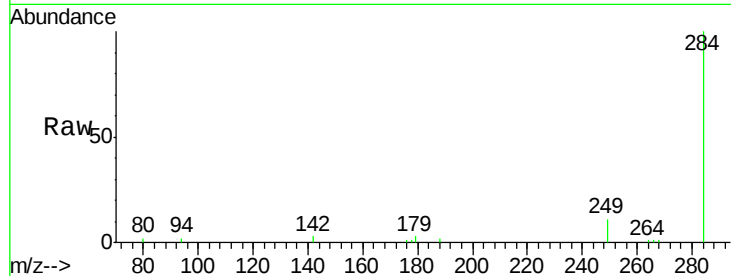
#19
Hexachlorobenzene
Concen: 3.77 ng
RT: 16.84 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion	Ratio	Resp Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	0.0	27.9	41.9#

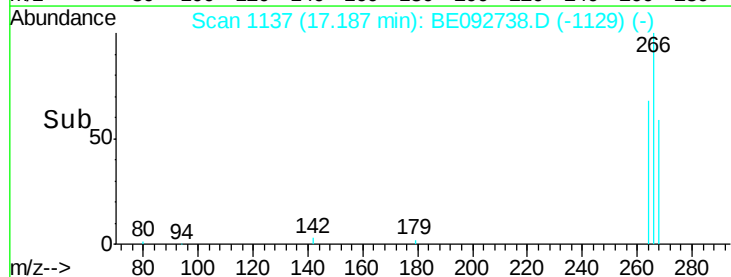
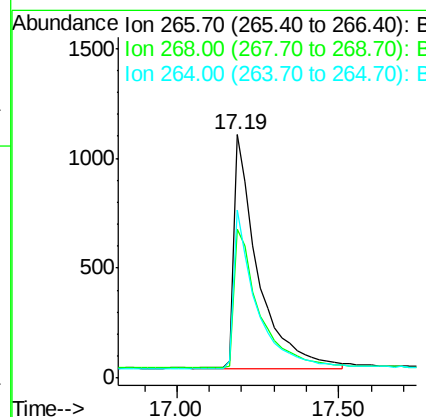
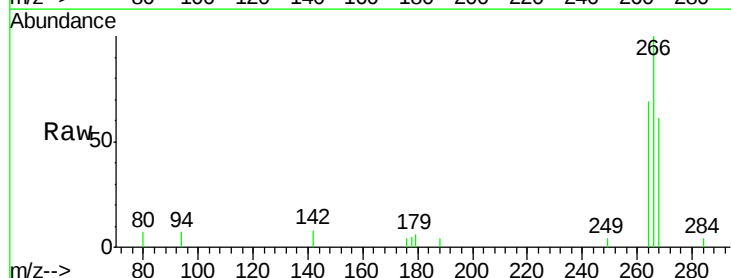
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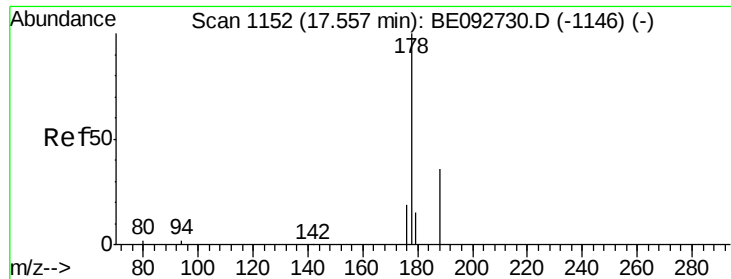
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#20
Pentachlorophenol
Concen: 9.14 ng
RT: 17.19 min Scan# 1137
Delta R.T. -0.12 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
268	61.2	62.5	93.7#
264	68.8	57.2	85.8





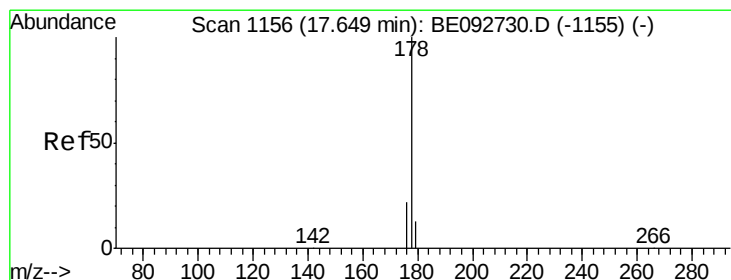
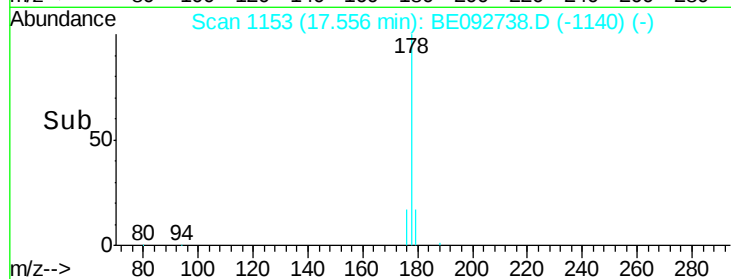
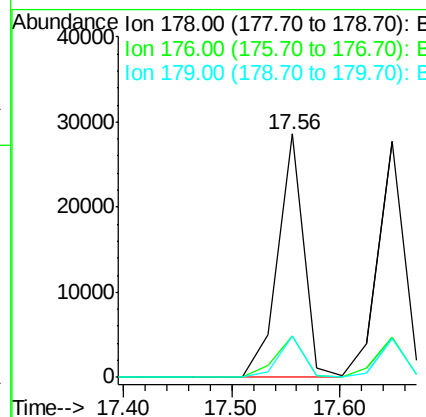
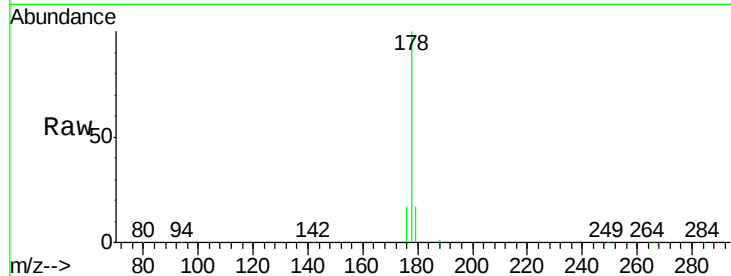
#21
Phenanthrene
Concen: 3.93 ng
RT: 17.56 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.8	23.8
179	16.0	16.0	24.0

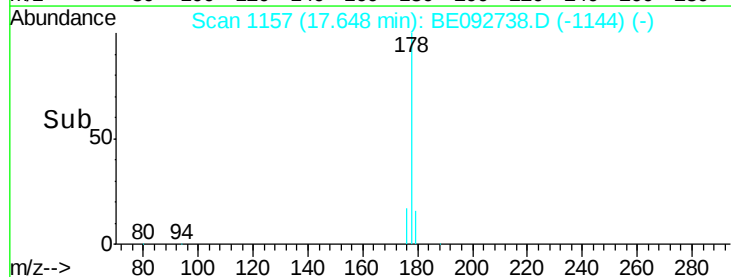
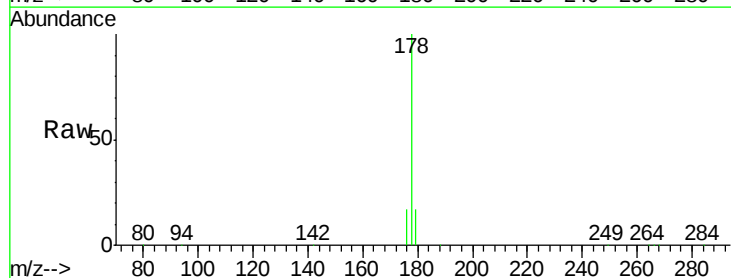
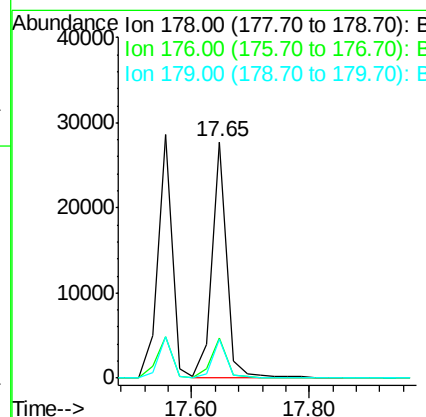
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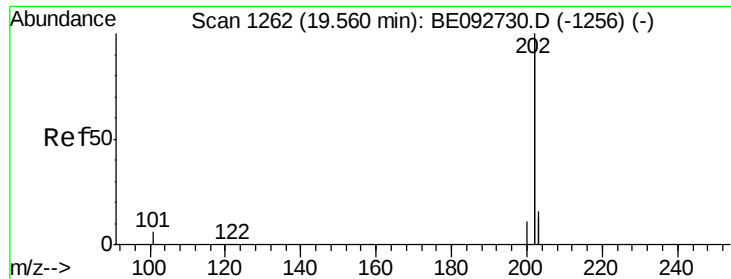
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#22
Anthracene
Concen: 4.23 ng
RT: 17.65 min Scan# 1157
Delta R.T. -0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.0	22.4
179	15.9	12.2	18.2





#23

Fluoranthene

Concen: 3.92 ng

RT: 19.56 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

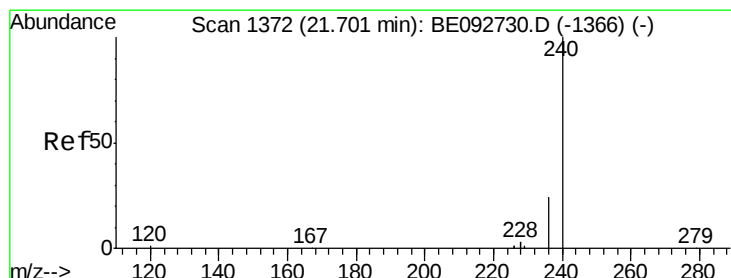
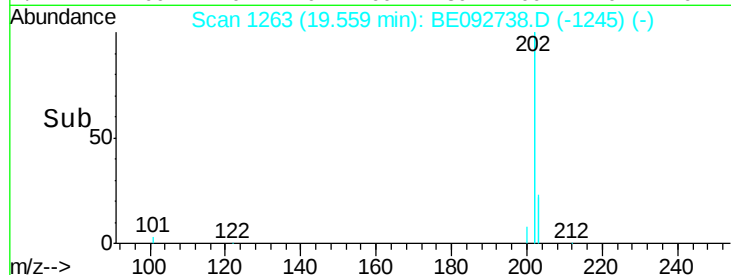
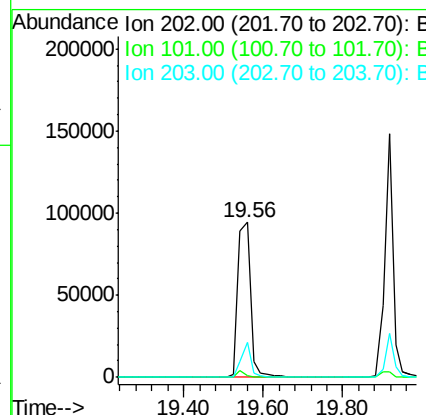
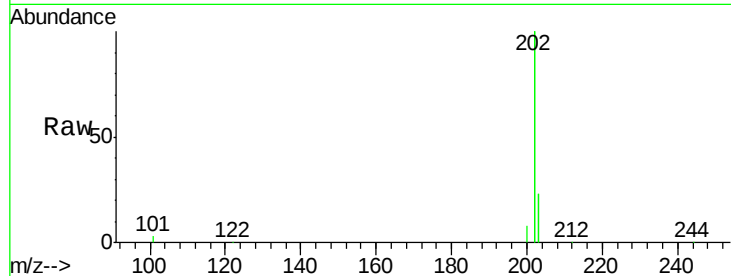
ClientSampleId :

PB96882BS

Tgt	Ion	202	Resp:	205723
Ion	Ratio	Lower	Upper	
202	100			
101	3.0	2.2	3.4	
203	17.3	13.7	20.5	

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#24

Chrysene-d12

Concen: 5.00 ng

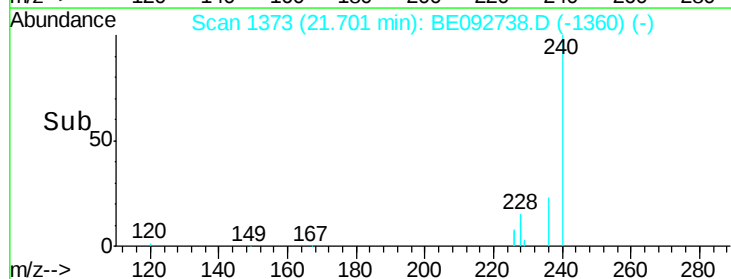
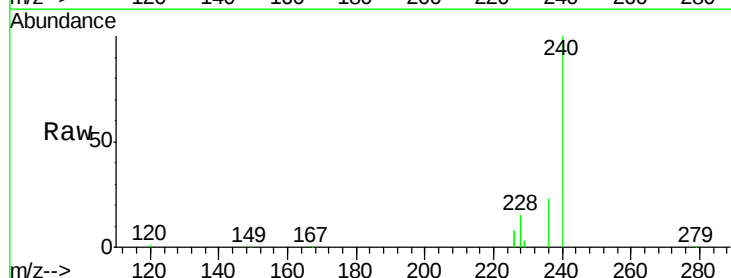
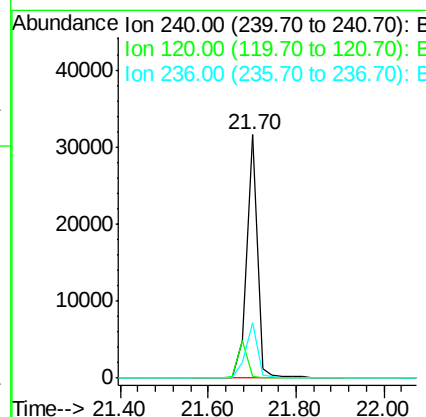
RT: 21.70 min Scan# 1373

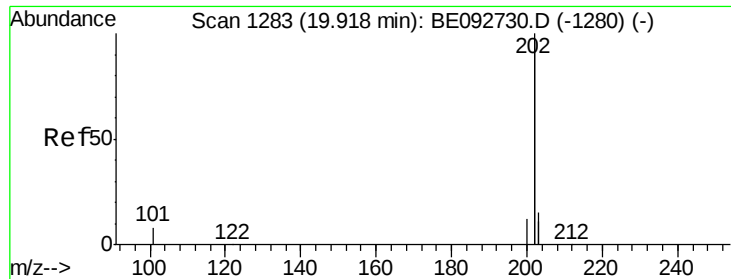
Delta R.T. -0.00 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Tgt	Ion	240	Resp:	52570
Ion	Ratio	Lower	Upper	
240	100			
120	0.9	2.6	4.0#	
236	22.7	24.6	37.0#	





#25

Pyrene

Concen: 4.44 ng

RT: 19.92 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Instrument :

BNA_E

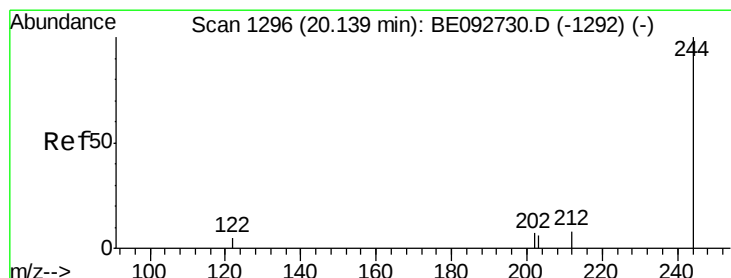
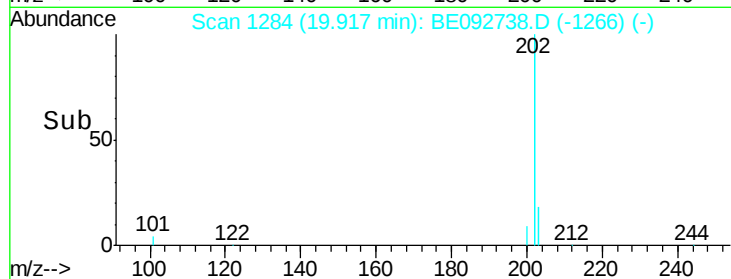
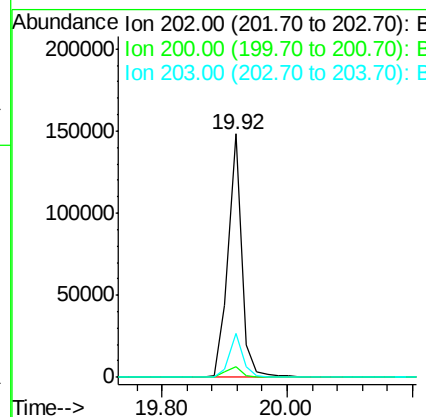
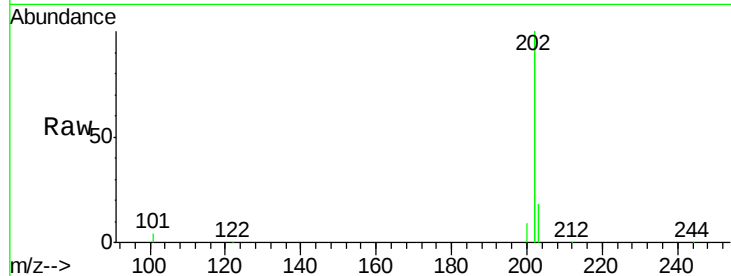
ClientSampleId :

PB96882BS

Tgt Ion:	202	Resp:	222209
Ion Ratio	Lower	Upper	
202	100		
200	5.3	4.2	6.4
203	17.8	13.9	20.9

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#26

Terphenyl-d14

Concen: 4.91 ng

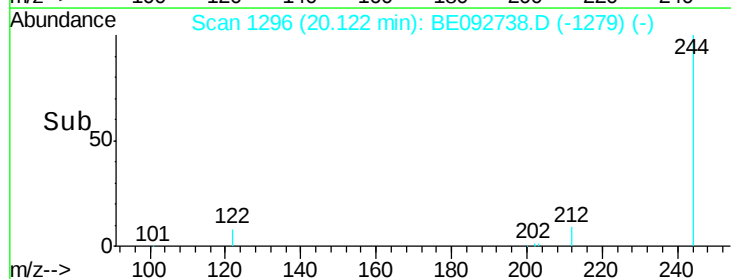
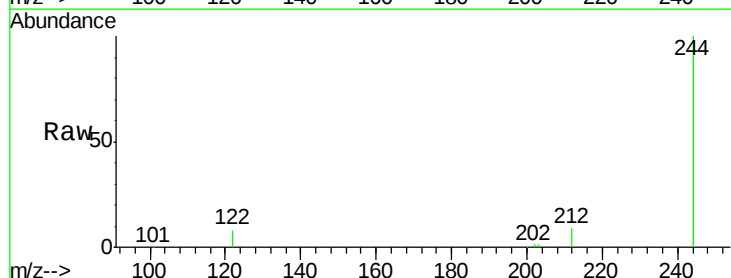
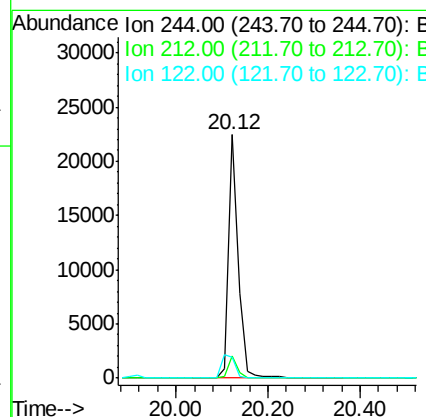
RT: 20.12 min Scan# 1296

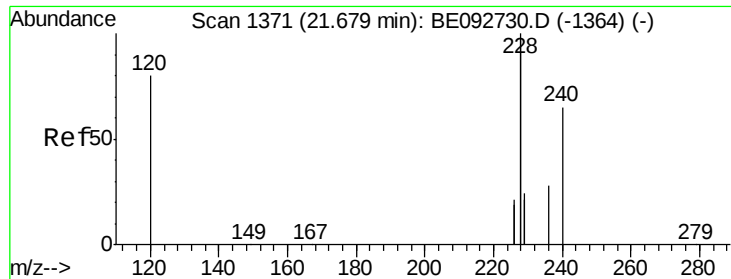
Delta R.T. -0.02 min

Lab File: BE092738.D

Acq: 15 Feb 2017 18:07

Tgt Ion:	244	Resp:	32971
Ion Ratio	Lower	Upper	
244	100		
212	9.3	6.7	10.1
122	8.4	3.6	5.4#





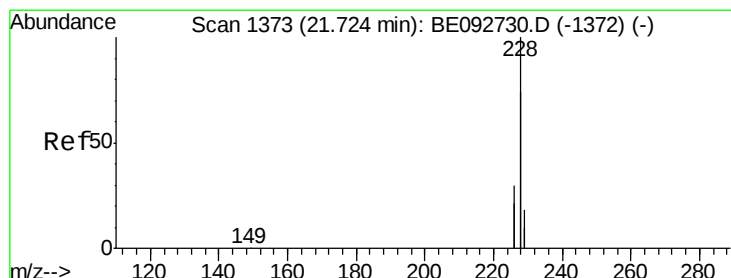
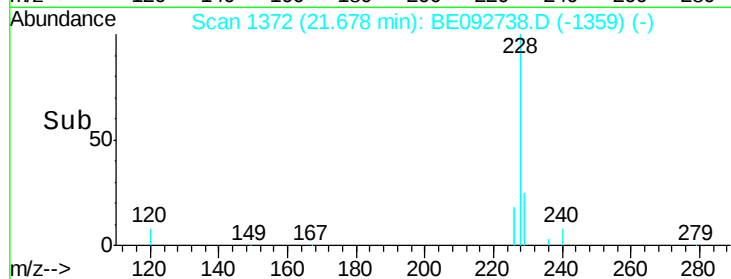
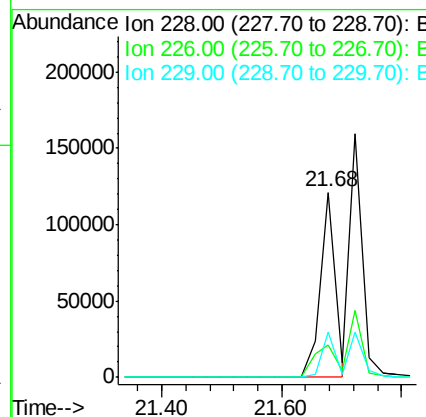
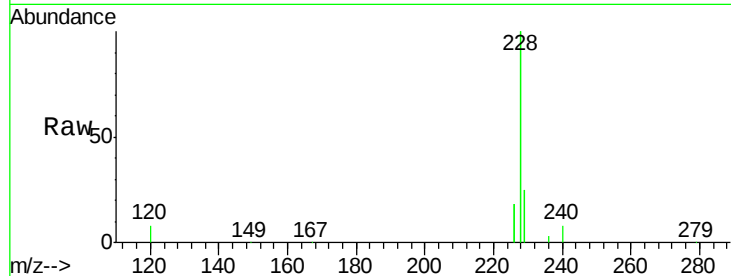
#27
Benzo(a)anthracene
Concen: 4.11 ng
RT: 21.68 min Scan# 1372
Delta R.T. -0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion: 228 Resp: 209762
Ion Ratio Lower Upper
228 100
226 17.6 23.6 35.4#
229 24.8 13.3 19.9#

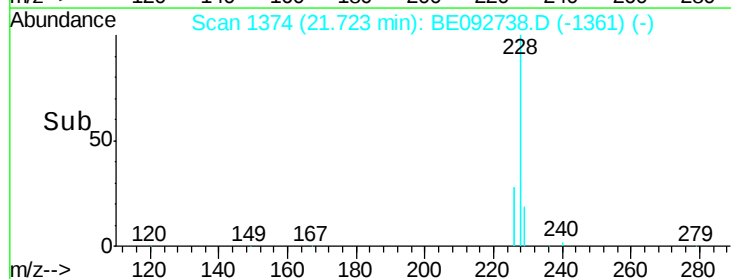
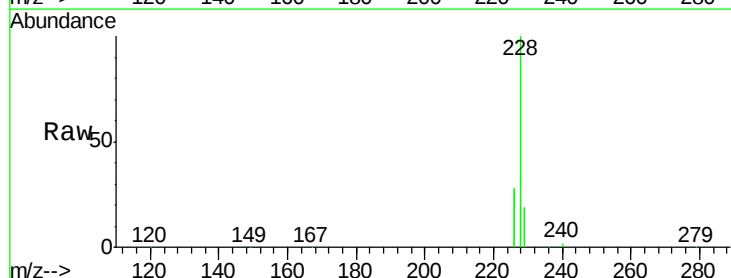
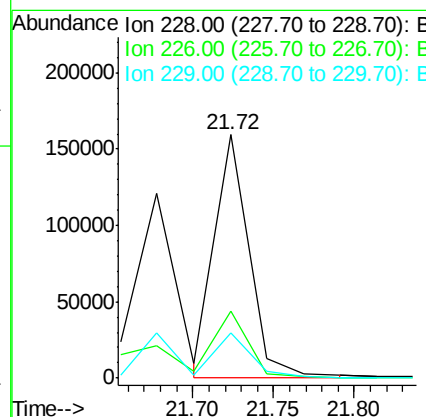
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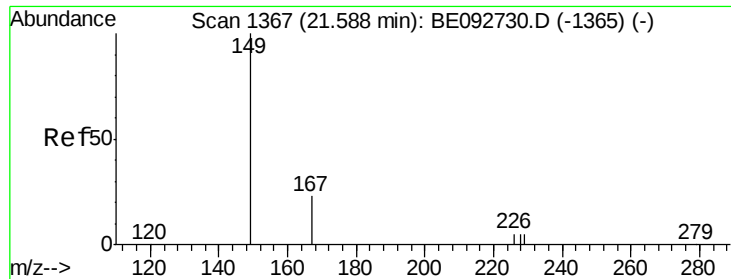
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#28
Chrysene
Concen: 3.98 ng m
RT: 21.72 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion: 228 Resp: 240544
Ion Ratio Lower Upper
228 100
226 27.8 36.3 54.5#
229 18.5 10.6 16.0#





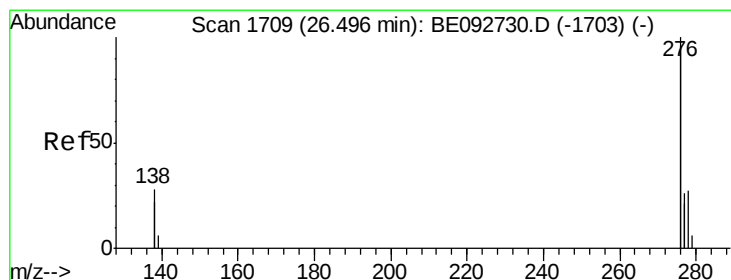
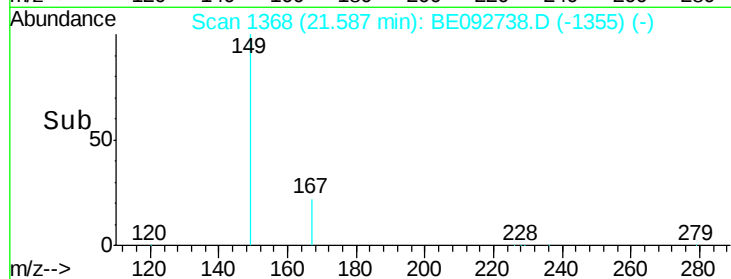
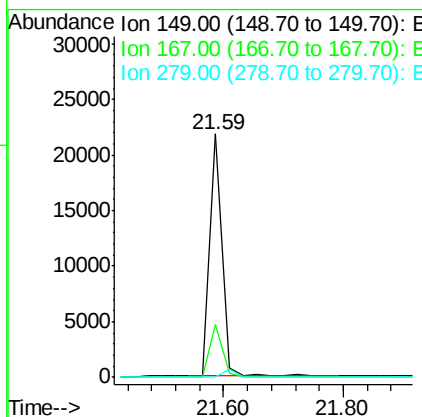
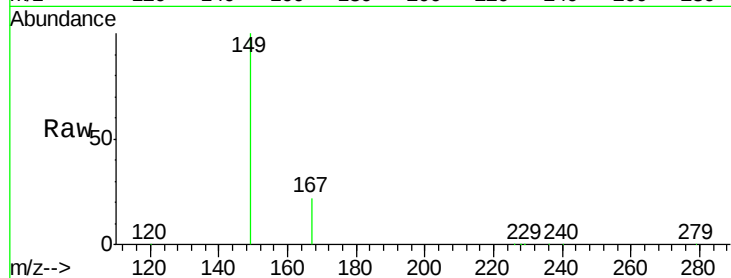
#29
Bis(2-ethylhexyl)phthalate
Concen: 4.46 ng
RT: 21.59 min Scan# 1368
Delta R.T. 0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.3	16.0	24.0
279	0.0	16.0	24.0

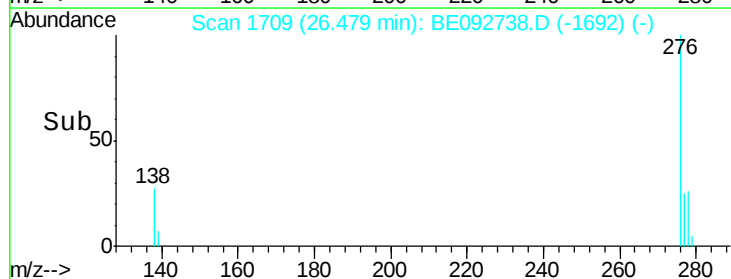
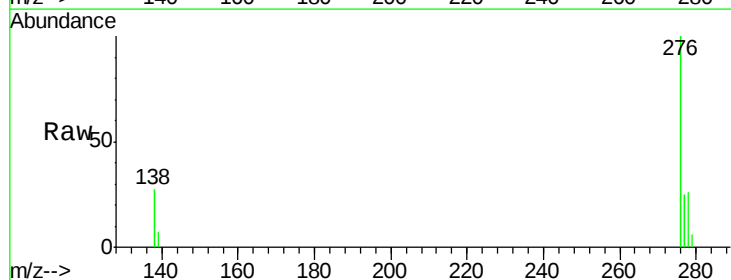
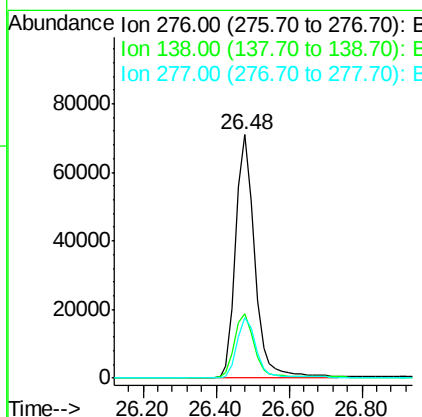
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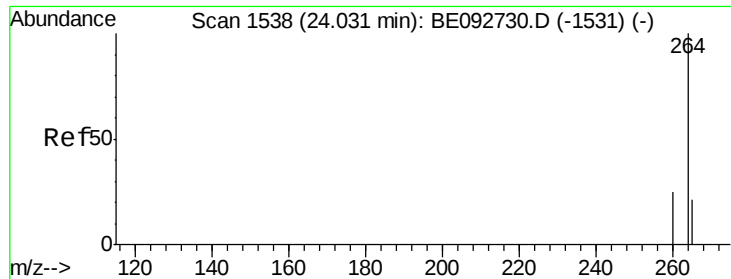
mohammad
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#30
Indeno(1,2,3-cd)pyrene
Concen: 4.03 ng
RT: 26.48 min Scan# 1709
Delta R.T. -0.02 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.8	20.3	30.5
277	24.9	19.7	29.5





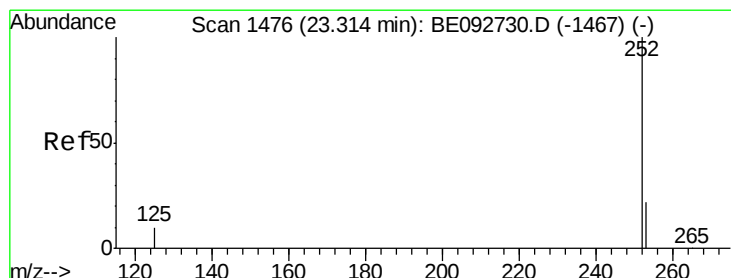
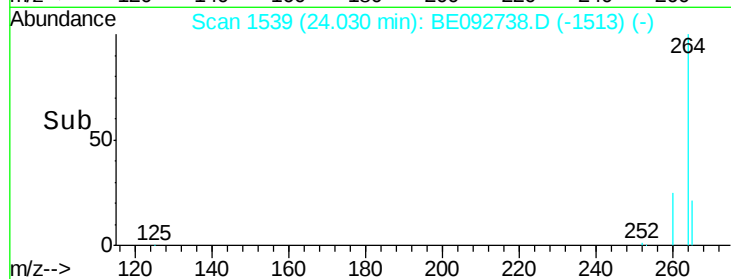
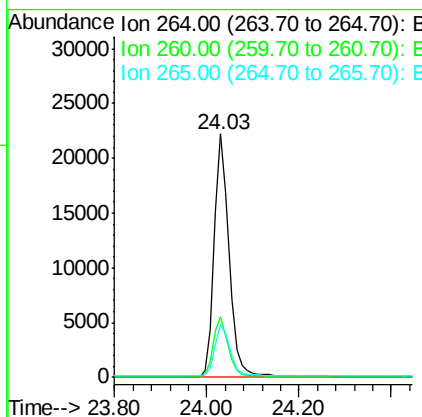
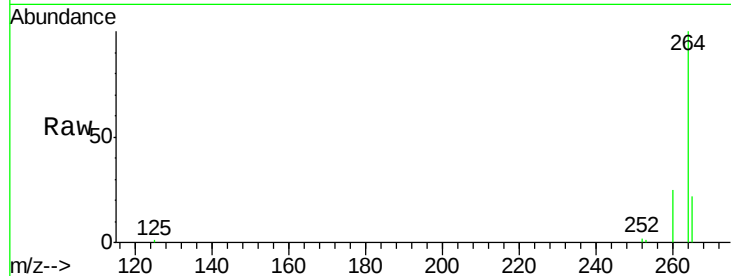
#31
Perylene-d12
Concen: 5.00 ng
RT: 24.03 min Scan# 1539
Delta R.T. -0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	20.1	30.1
265	21.8	17.9	26.9

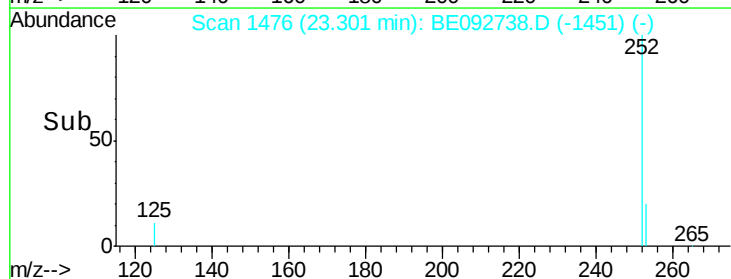
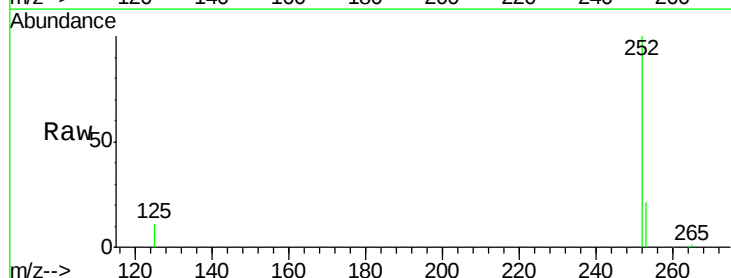
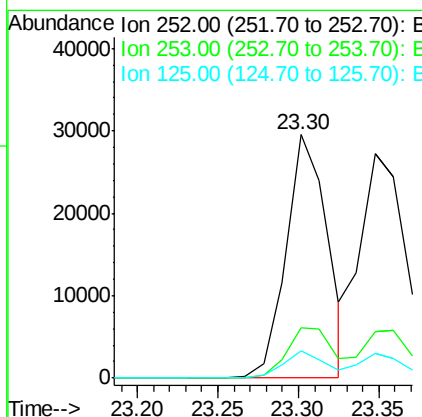
Manual Integrations
APPROVED

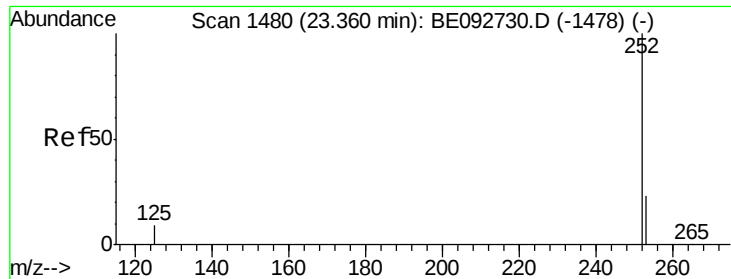
mohammad
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#32
Benzo(b)fluoranthene
Concen: 4.01 ng
RT: 23.30 min Scan# 1476
Delta R.T. -0.01 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.6	18.7	28.1
125	11.3	10.5	15.7





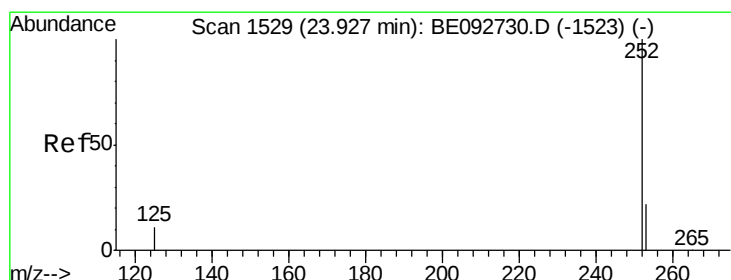
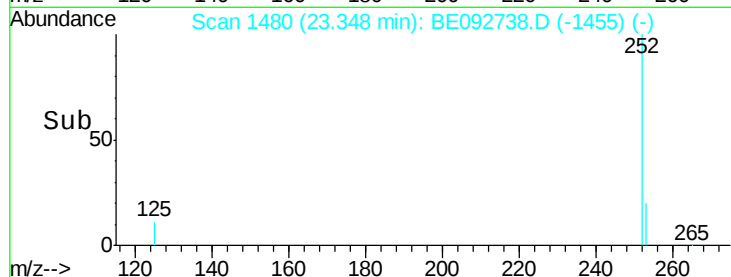
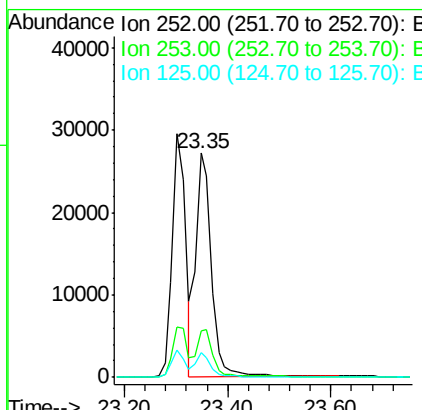
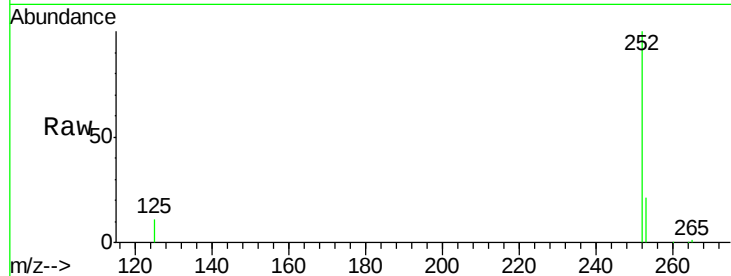
#33
Benzo(k)fluoranthene
Concen: 4.05 ng
RT: 23.35 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.6	20.3	30.5
125	11.1	9.6	14.4

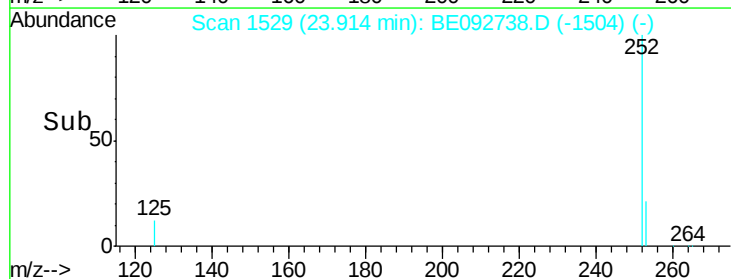
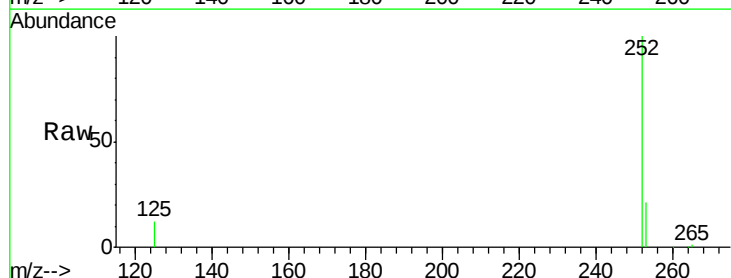
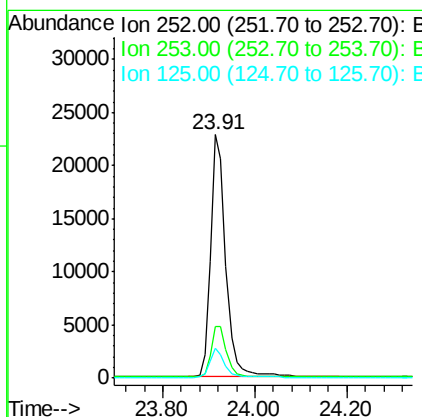
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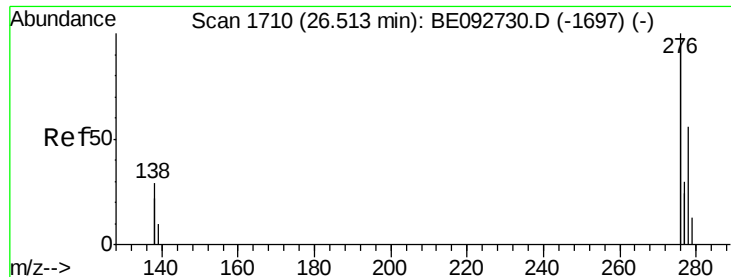
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#34
Benzo(a)pyrene
Concen: 4.10 ng
RT: 23.91 min Scan# 1529
Delta R.T. -0.01 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	19.0	28.6
125	12.2	11.8	17.8





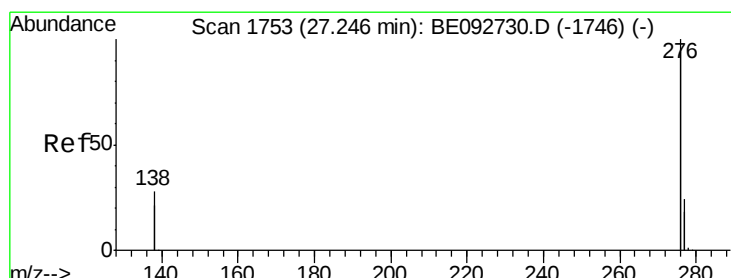
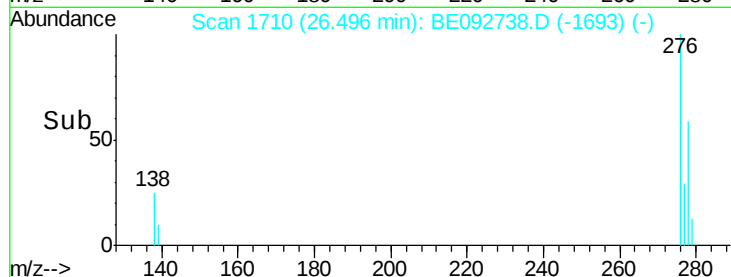
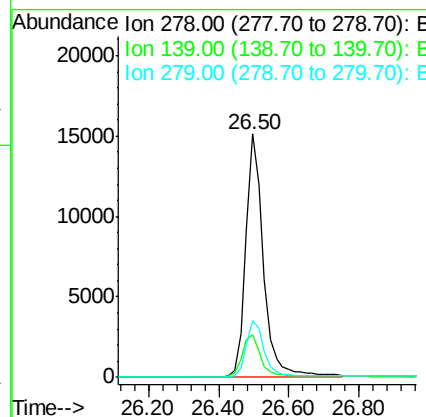
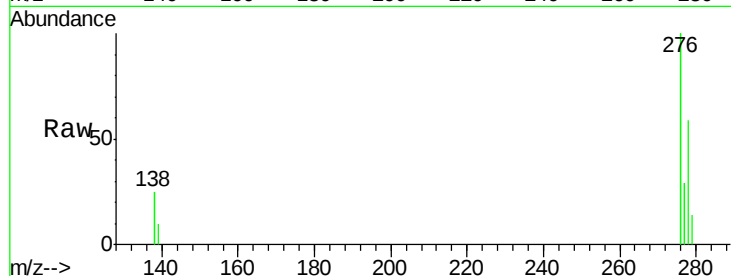
#35
Dibenzo(a,h)anthracene
Concen: 4.13 ng
RT: 26.50 min Scan# 1710
Delta R.T. -0.02 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Instrument :
BNA_E
ClientSampleId :
PB96882BS

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	13.8	20.8
279	23.2	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 4.15 ng
RT: 27.25 min Scan# 1754
Delta R.T. 0.00 min
Lab File: BE092738.D
Acq: 15 Feb 2017 18:07

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.8	29.8
138	21.3	19.8	29.6

