

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
 Data File : BE092223.D
 Acq On : 8 Aug 2016 19:34
 Operator : UM/SJ
 Sample : PB92497BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB92497BS

Manual Integrations
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Quant Time: Aug 09 03:21:26 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	11537	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	49804	5.00	ng	-0.02
10) Acenaphthene-d10	14.83	164	25388	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	52332	5.00	ng	-0.02
22) Chrysene-d12	21.73	240	58561	5.00	ng	-0.02
28) Perylene-d12	24.14	264	65021	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	25239	8.52	ng	0.00
5) Phenol-d6	7.34	99	32599	8.26	ng	-0.01
7) Nitrobenzene-d5	9.34	82	15118	3.85	ng	-0.01
11) 2,4,6-Tribromophenol	16.32	330	7063	8.57	ng	-0.01
12) 2-Fluorobiphenyl	13.45	172	31248	3.88	ng	-0.01
24) Terphenyl-d14	20.19	244	39153	4.66	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	4608	2.94	ng	# 81
3) n-Nitrosodimethylamine	3.78	42	8363	3.86	ng	# 97
8) Naphthalene	11.03	128	41326	3.86	ng	95
9) 2-Methylnaphthalene	12.64	142	27716	3.92	ng	88
13) Acenaphthylene	14.54	152	166611	3.72	ng	98
14) Acenaphthene	14.90	154	25081	3.51	ng	94
15) Fluorene	15.88	166	32143	3.55	ng	100
17) Hexachlorobenzene	16.89	284	8274	3.23	ng	# 38
18) Pentachlorophenol	17.24	266	7139	7.43	ng	# 83
19) Phenanthrene	17.61	178	55936	3.92	ng	99
20) Anthracene	17.70	178	51553	3.70	ng	98
21) Fluoranthene	19.63	202	226670	3.54	ng	97
23) Pyrene	19.99	202	245559	4.01	ng	98
25) Benzo(a)anthracene	21.72	228	264049	4.10	ng	97
26) Chrysene	21.77	228	232997m	3.61	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	330792	4.72	ng	100
29) Benzo(b)fluoranthene	23.40	252	68705m	3.86	ng	
30) Benzo(k)fluoranthene	23.45	252	65358	3.84	ng	96
31) Benzo(a)pyrene	24.02	252	67141	4.11	ng	95
32) Dibenzo(a,h)anthracene	26.65	278	68329	4.38	ng	95
33) Benzo(g,h,i)perylene	27.40	276	283577	4.26	ng	97

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

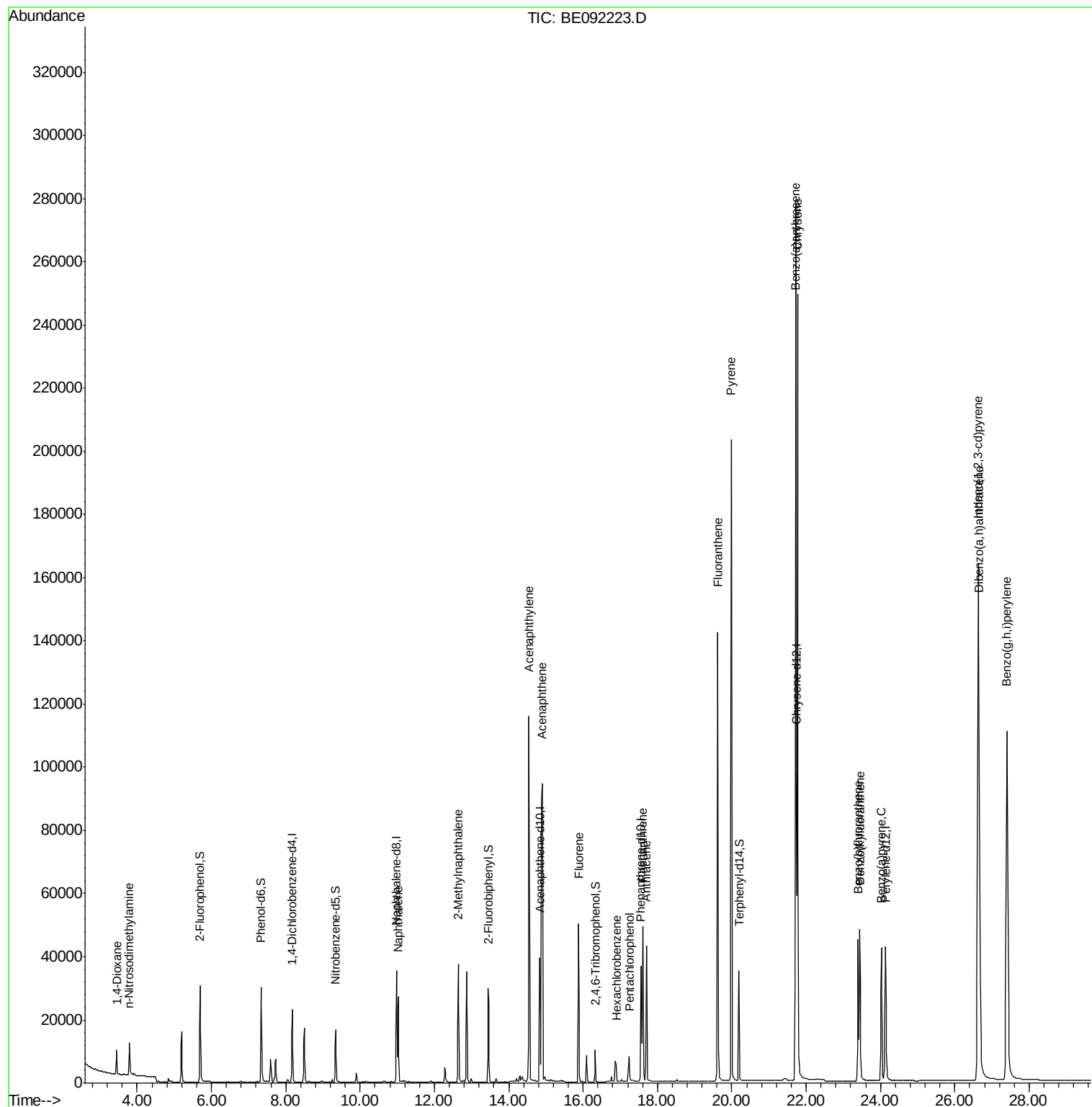
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
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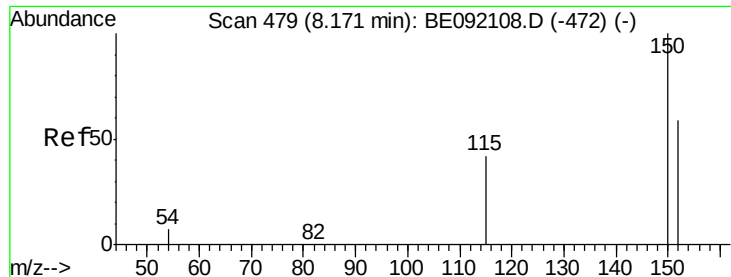
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092223.D

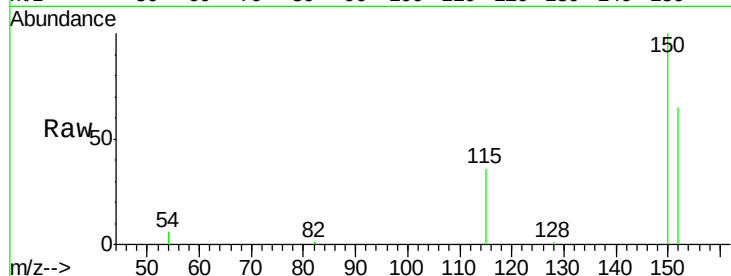
Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

ClientSampled :

PB92497BS



Tgt Ion:152 Resp: 11537

Ion Ratio Lower Upper

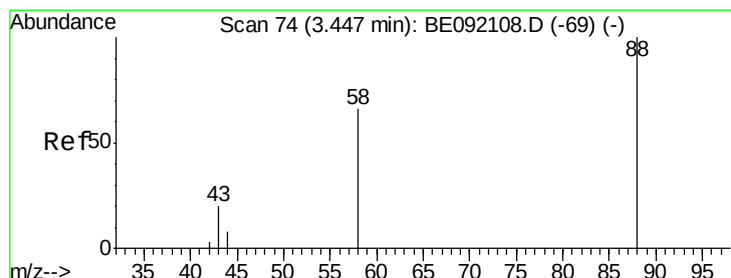
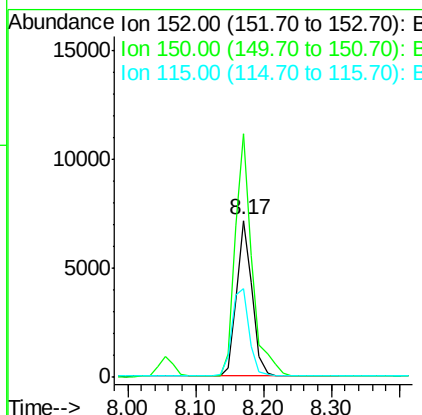
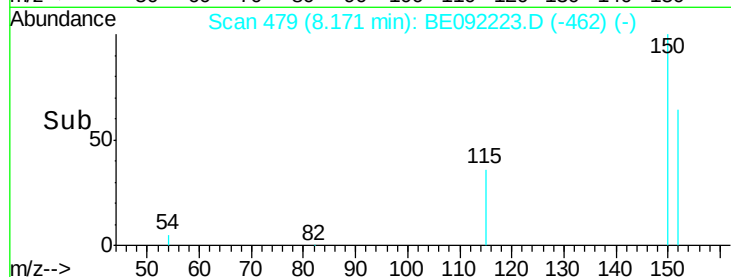
152 100

150 154.9 106.0 159.0

115 56.2 36.9 55.3#

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#2

1,4-Dioxane

Concen: 2.94 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

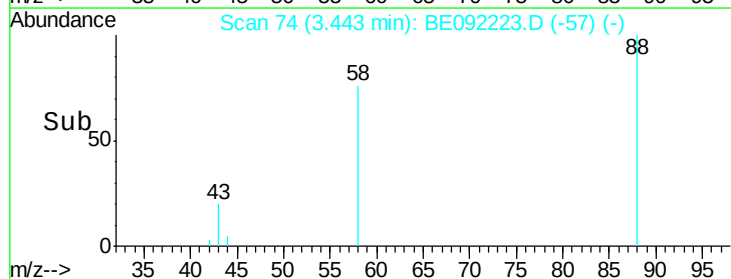
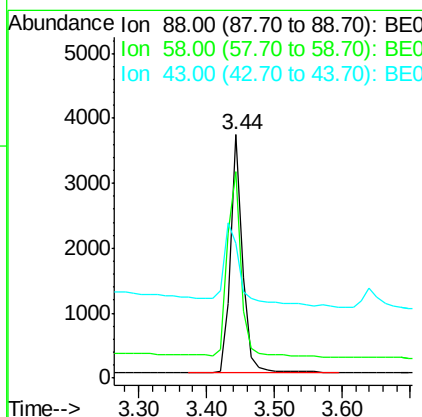
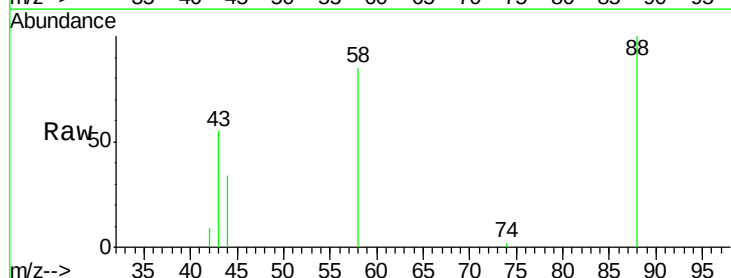
Tgt Ion: 88 Resp: 4608

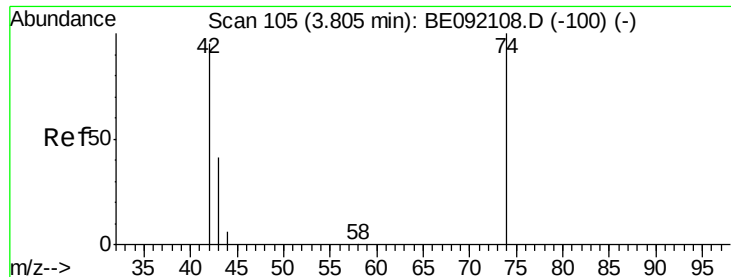
Ion Ratio Lower Upper

88 100

58 90.3 62.1 93.1

43 51.4 27.2 40.8#





#3

n-Nitrosodimethylamine

Concen: 3.86 ng

RT: 3.78 min Scan# 103

Delta R.T. -0.03 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

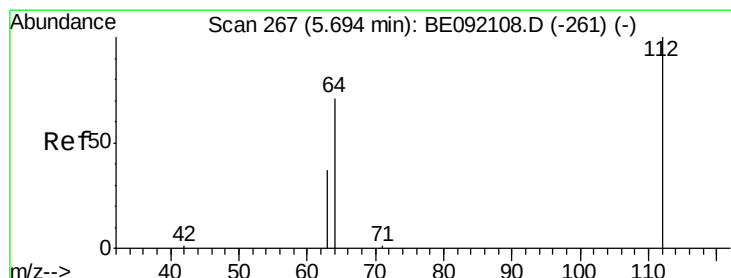
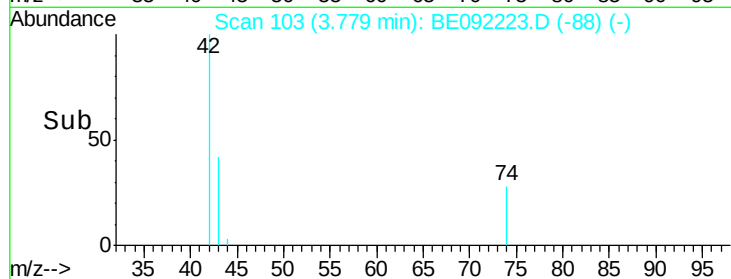
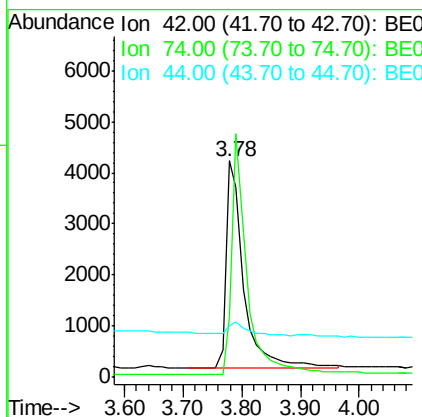
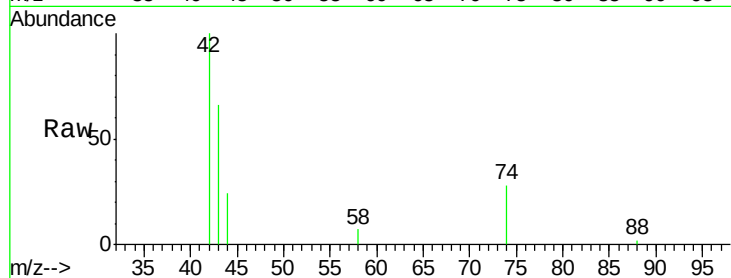
ClientSampleId :

PB92497BS

Tgt Ion:	42	Resp:	8363
Ion	Ratio	Lower	Upper
42	100		
74	101.8	82.8	124.2
44	7.4	9.0	13.4#

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#4

2-Fluorophenol

Concen: 8.52 ng

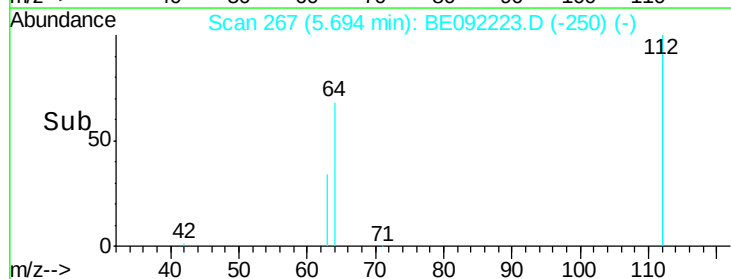
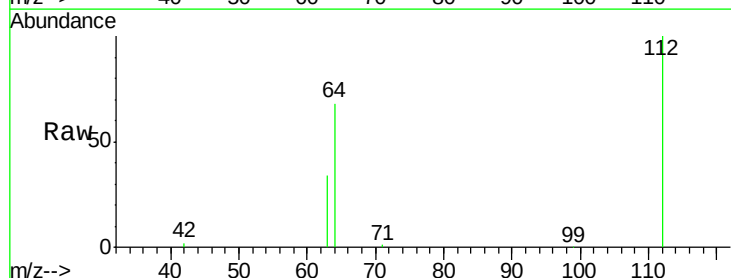
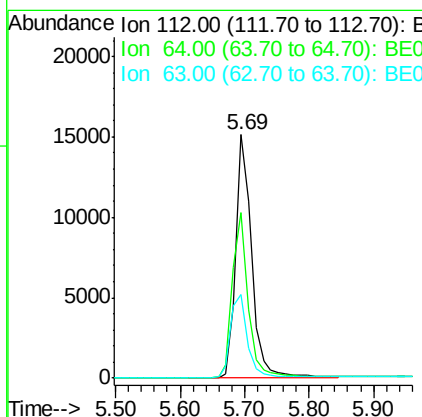
RT: 5.69 min Scan# 267

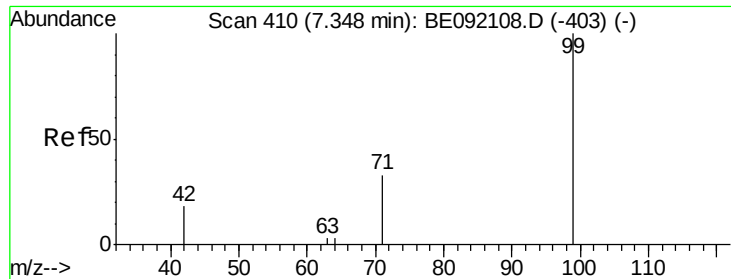
Delta R.T. -0.00 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Tgt Ion:	112	Resp:	25239
Ion	Ratio	Lower	Upper
112	100		
64	67.4	55.9	83.9
63	36.5	31.1	46.7





#5

Phenol-d6

Concen: 8.26 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

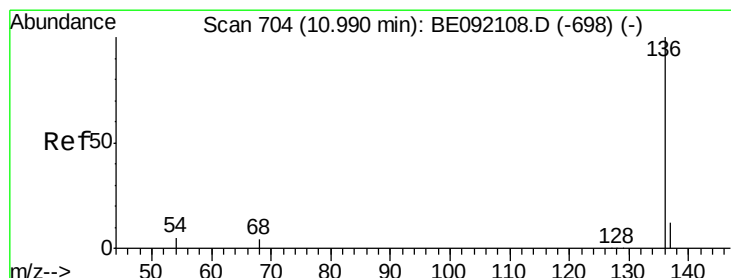
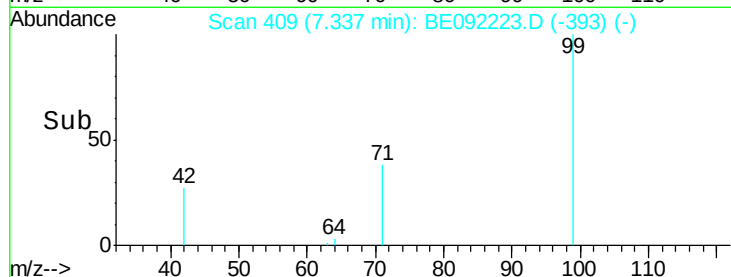
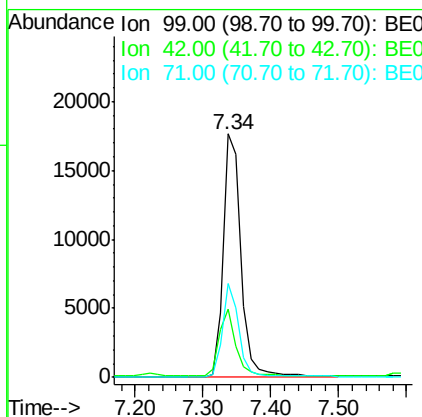
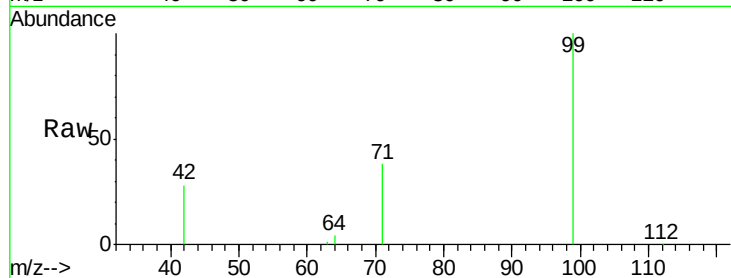
ClientSampleId :

PB92497BS

Tgt Ion:	99	Resp:	32599
Ion Ratio	Lower	Upper	
99	100		
42	25.7	22.4	33.6
71	35.3	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

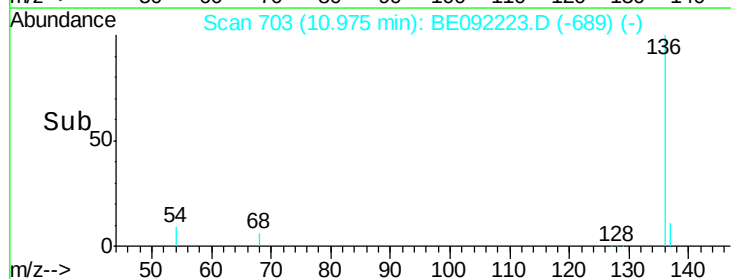
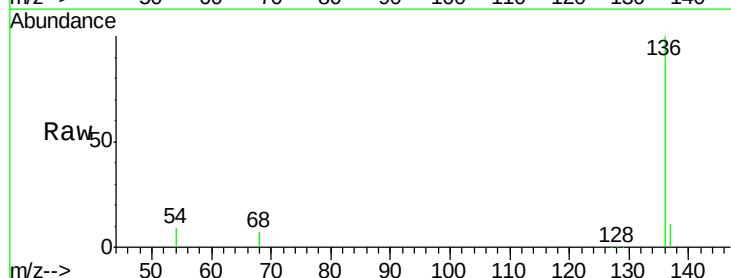
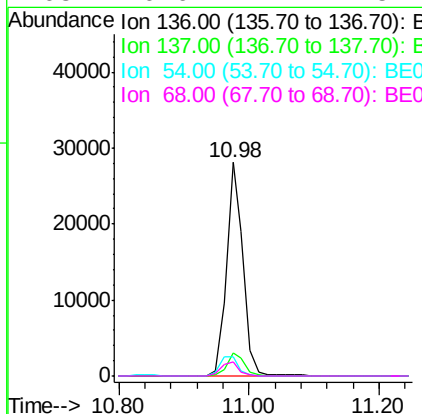
RT: 10.98 min Scan# 703

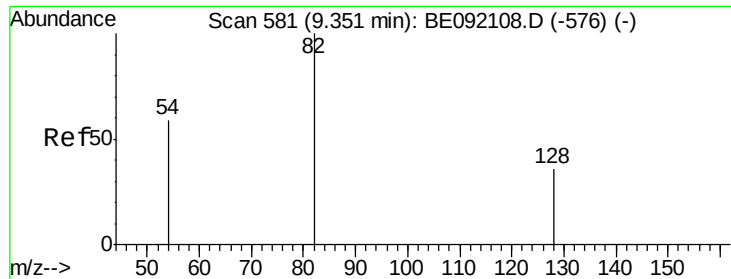
Delta R.T. -0.02 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Tgt Ion:	136	Resp:	49804
Ion Ratio	Lower	Upper	
136	100		
137	10.7	9.1	13.7
54	9.2	2.7	4.1#
68	6.6	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.85 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

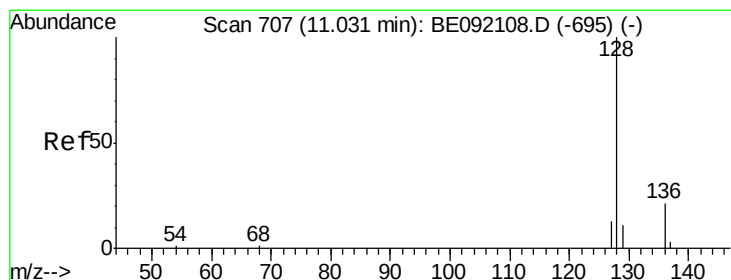
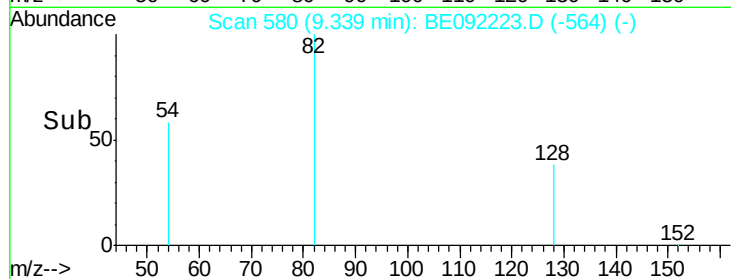
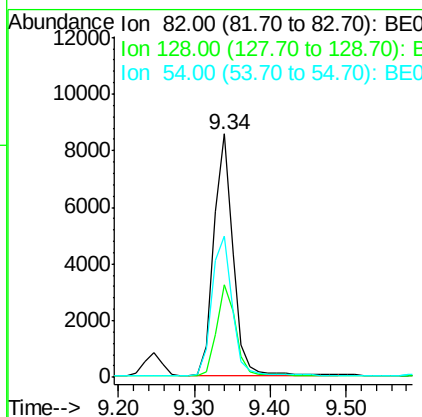
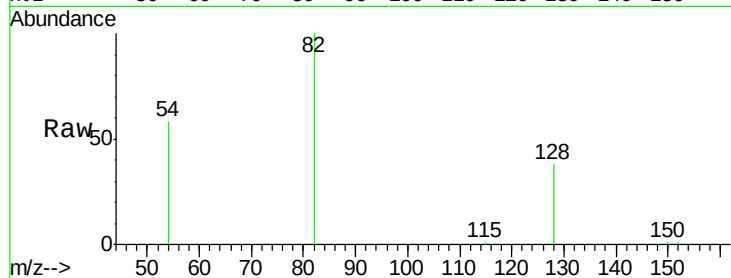
ClientSampleId :

PB92497BS

Tgt Ion:	82	Resp:	15118
Ion Ratio	Lower	Upper	
82	100		
128	38.3	33.0	49.4
54	58.2	42.6	63.8

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#8

Naphthalene

Concen: 3.86 ng

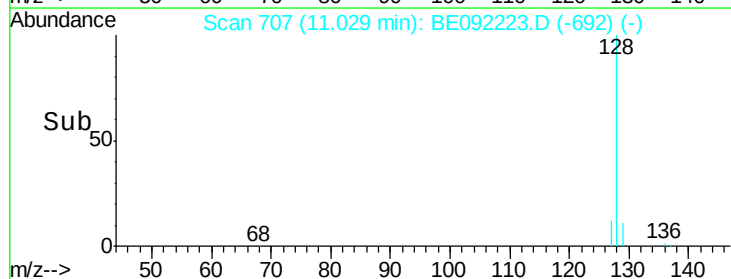
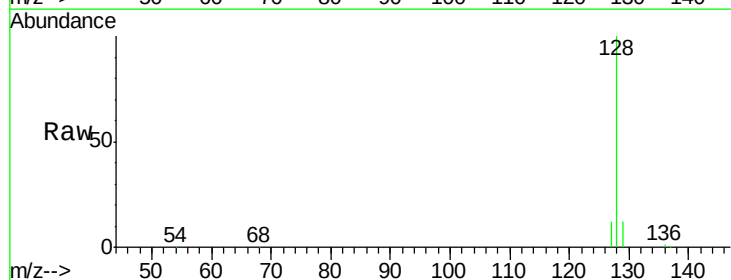
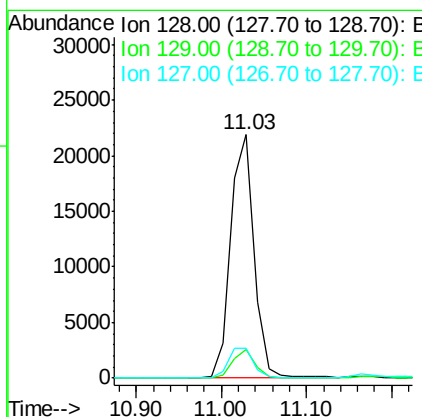
RT: 11.03 min Scan# 707

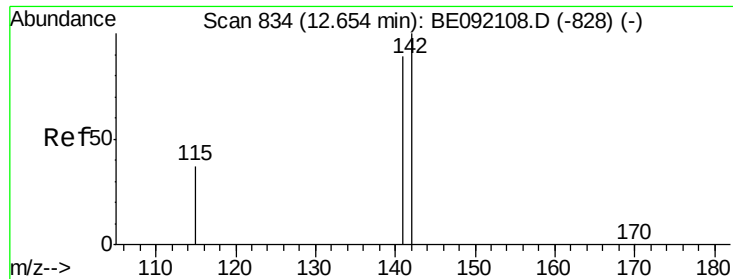
Delta R.T. -0.00 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Tgt Ion:	128	Resp:	41326
Ion Ratio	Lower	Upper	
128	100		
129	11.6	11.1	16.7
127	12.1	11.3	16.9





#9

2-Methylnaphthalene

Concen: 3.92 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

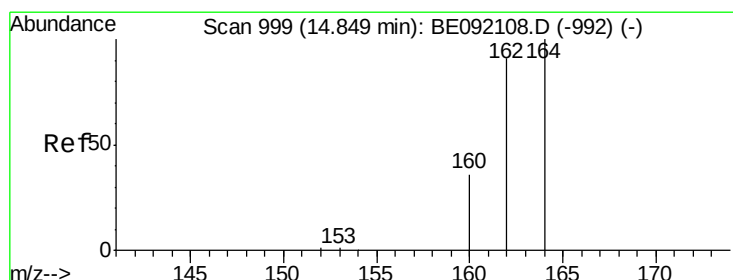
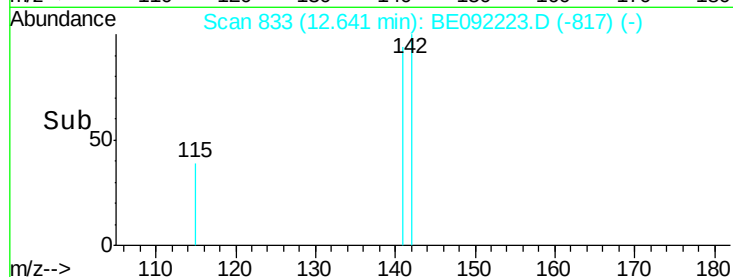
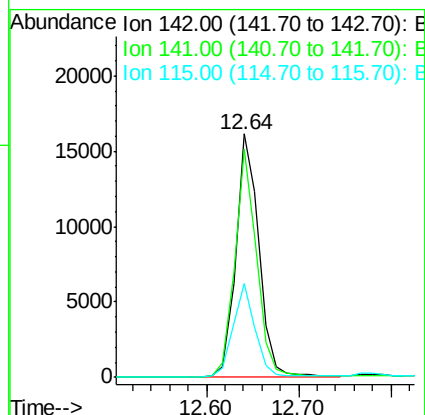
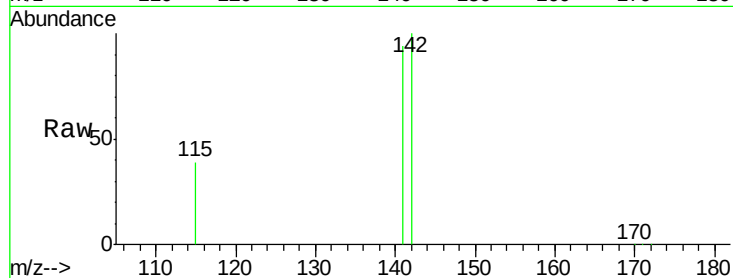
ClientSampleId :

PB92497BS

Tgt Ion:	142	Resp:	27716
Ion Ratio	Lower	Upper	
142	100		
141	93.5	65.1	97.7
115	38.8	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

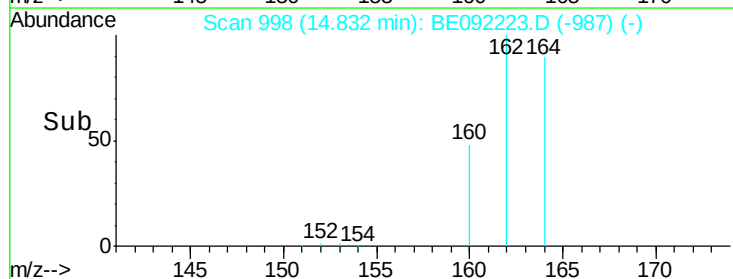
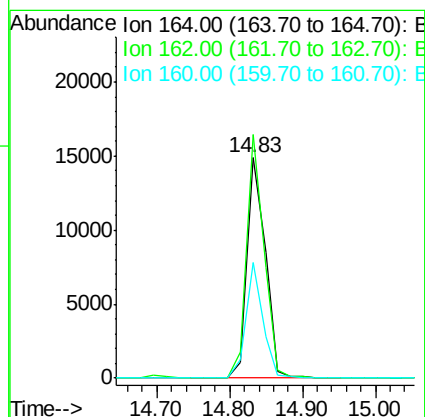
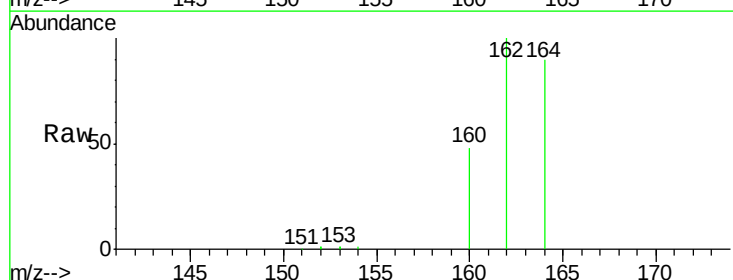
RT: 14.83 min Scan# 998

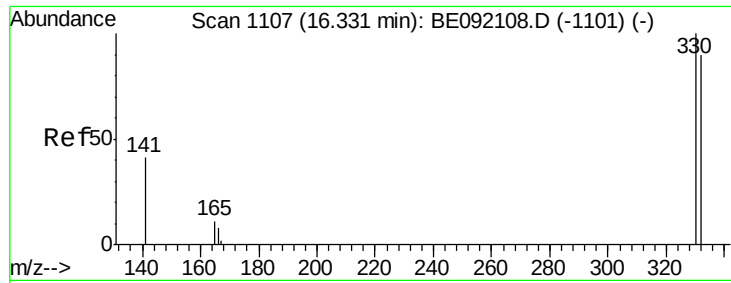
Delta R.T. -0.02 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Tgt Ion:	164	Resp:	25388
Ion Ratio	Lower	Upper	
164	100		
162	110.7	69.5	104.3#
160	52.8	27.6	41.4#





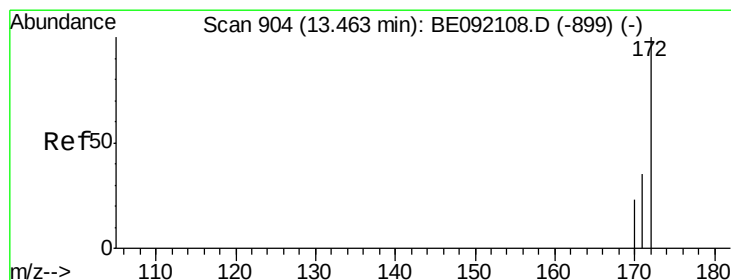
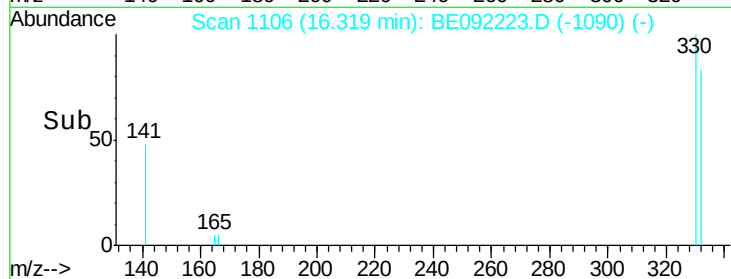
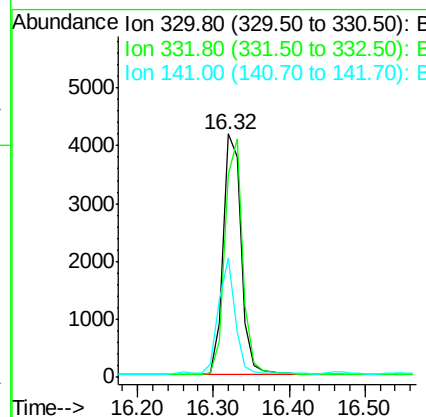
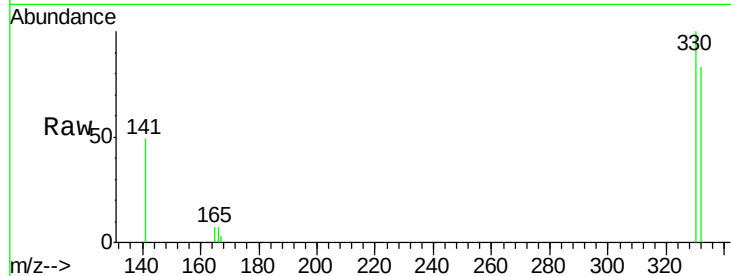
#11
 2,4,6-Tribromophenol
 Concen: 8.57 ng
 RT: 16.32 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: BE092223.D
 Acq: 8 Aug 2016 19:34

Instrument :
 BNA_E
 ClientSampleId :
 PB92497BS

Tgt Ion: 330 Resp: 7063
 Ion Ratio Lower Upper
 330 100
 332 96.4 74.2 111.4
 141 44.4 139.8 209.8#

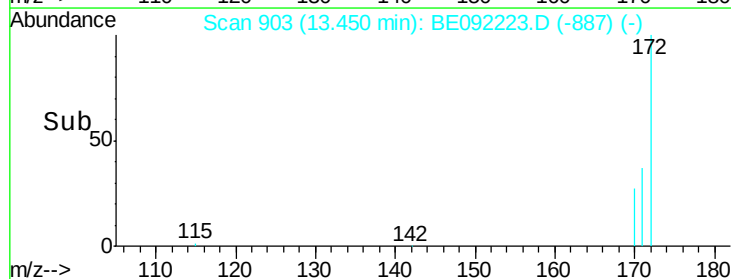
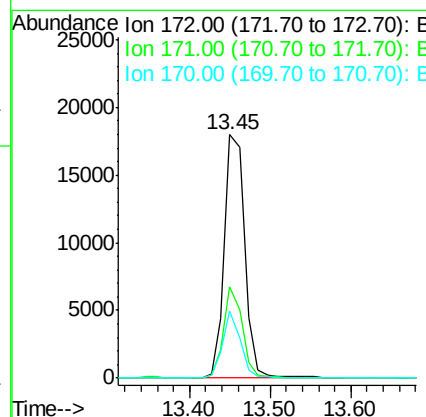
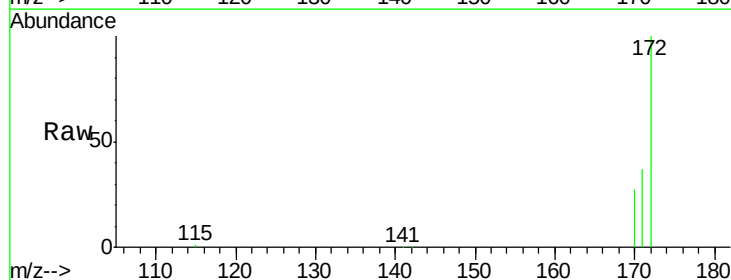
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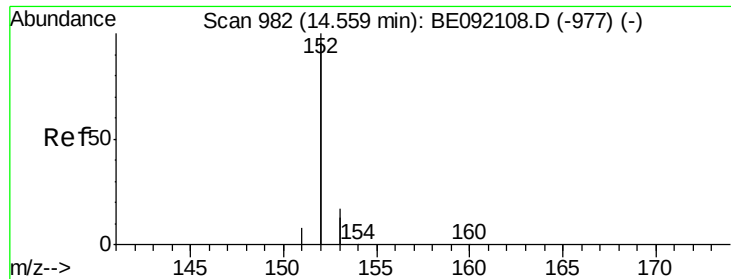
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#12
 2-Fluorobiphenyl
 Concen: 3.88 ng
 RT: 13.45 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BE092223.D
 Acq: 8 Aug 2016 19:34

Tgt Ion: 172 Resp: 31248
 Ion Ratio Lower Upper
 172 100
 171 37.5 30.3 45.5
 170 27.3 21.6 32.4





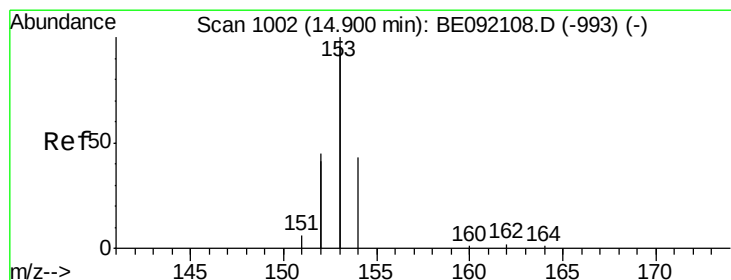
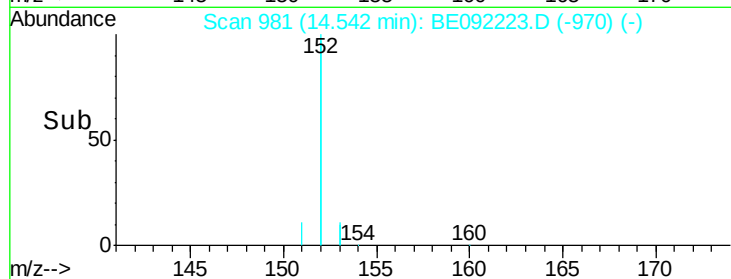
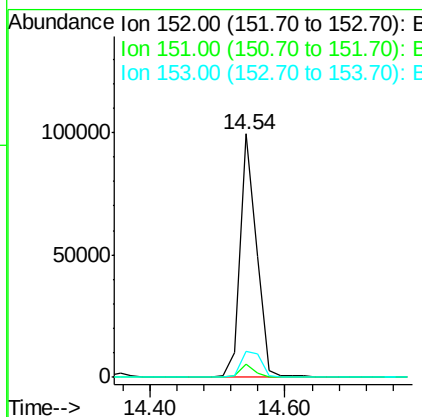
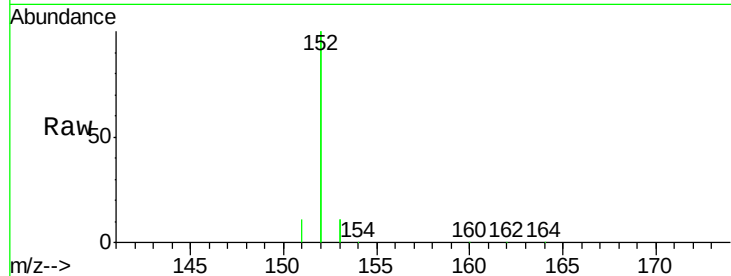
#13
Acenaphthylene
Concen: 3.72 ng
RT: 14.54 min Scan# 981
Delta R.T. -0.02 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Instrument :
BNA_E
ClientSampleId :
PB92497BS

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	166611		
151	5.0	4.0	6.0	
153	13.1	9.6	14.4	

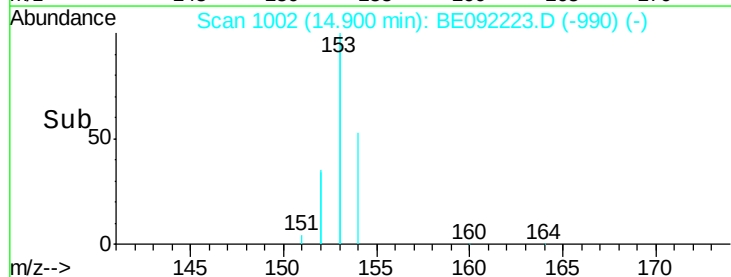
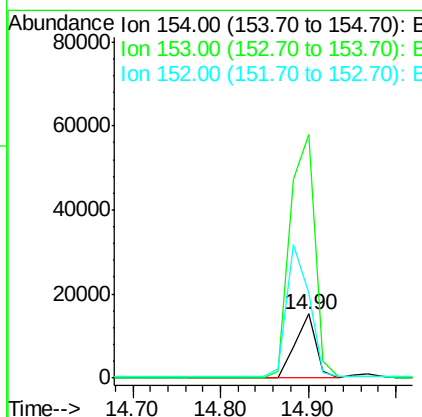
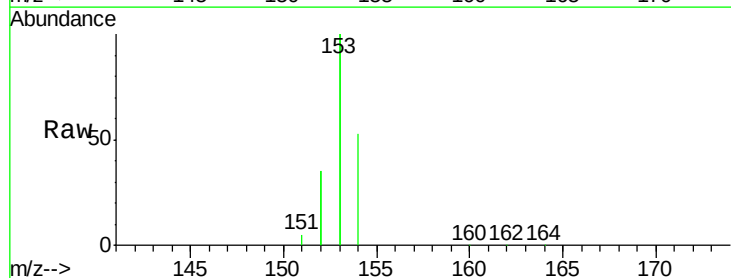
Manual Integrations
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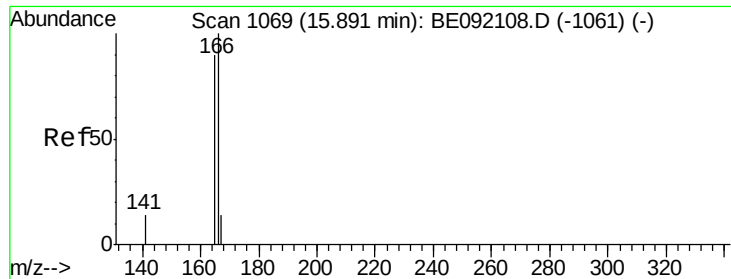
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#14
Acenaphthene
Concen: 3.51 ng
RT: 14.90 min Scan# 1002
Delta R.T. -0.00 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	25081		
153	451.9	345.1	517.7	
152	223.2	176.0	264.0	





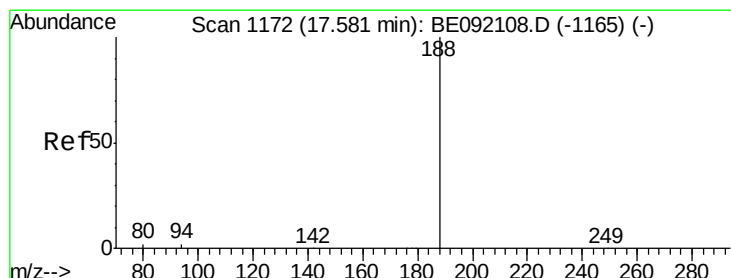
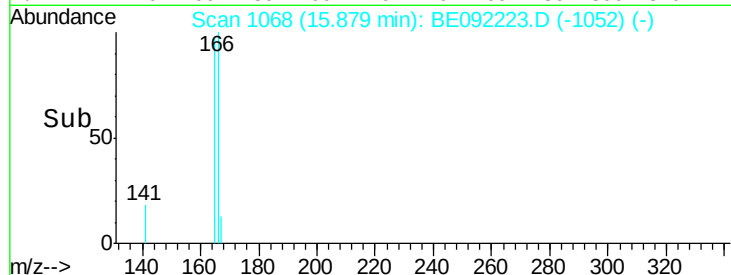
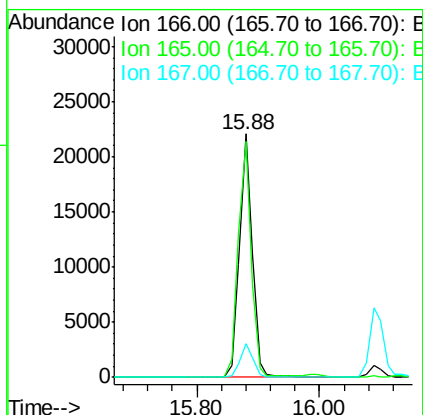
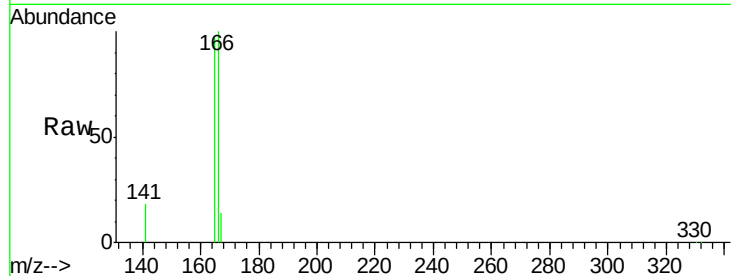
#15
Fluorene
Concen: 3.55 ng
RT: 15.88 min Scan# 1068
Delta R.T. -0.01 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Instrument :
BNA_E
ClientSampleId :
PB92497BS

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.6	118.0
167	13.6	11.1	16.7

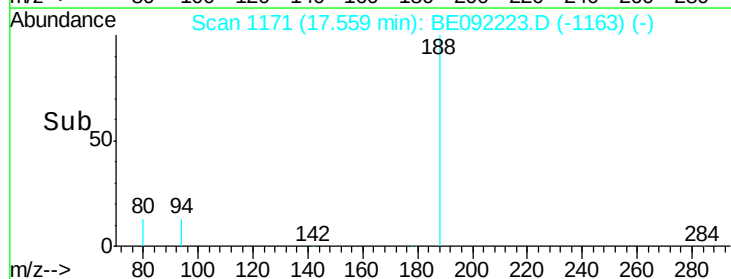
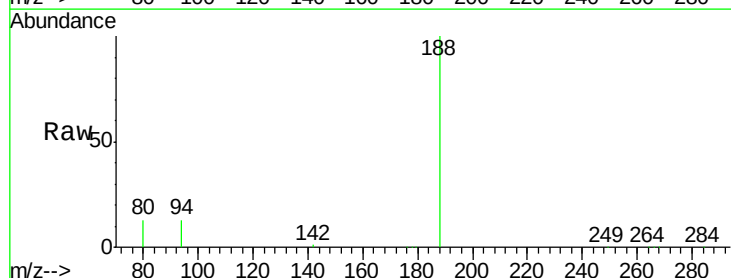
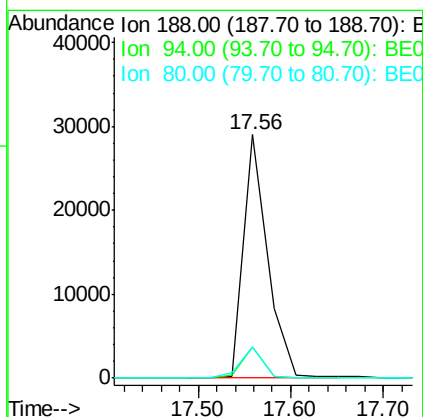
Manual Integrations
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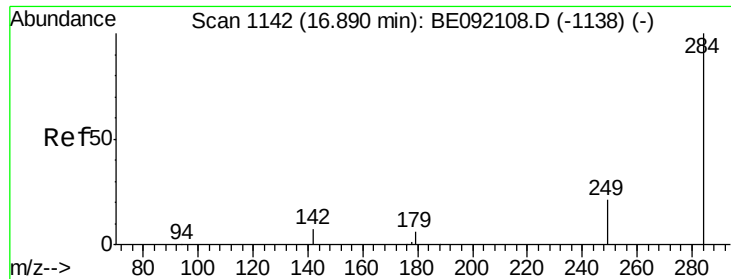
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#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.9	3.9	5.9#
80	12.9	3.4	5.0#





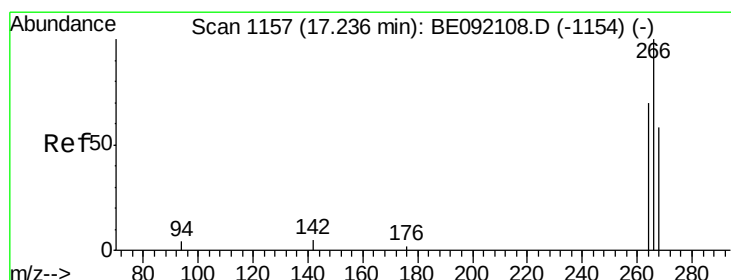
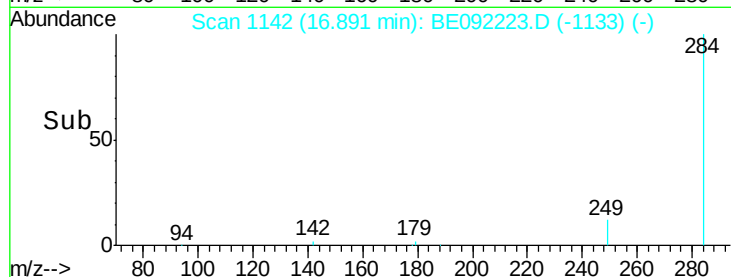
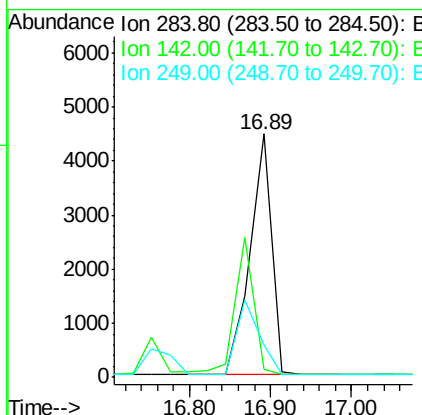
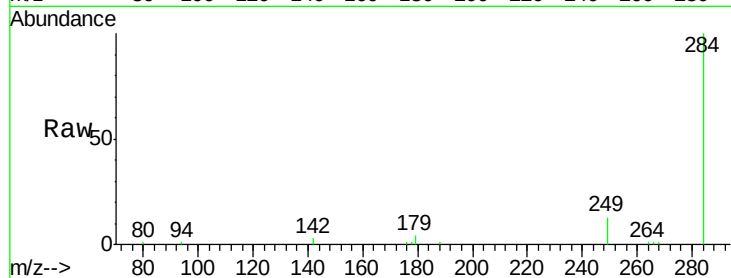
#17
Hexachlorobenzene
Concen: 3.23 ng
RT: 16.89 min Scan# 1142
Delta R.T. 0.00 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Instrument :
BNA_E
ClientSampleId :
PB92497BS

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	8274		
142	0.0	33.3	49.9#	
249	0.0	25.4	38.0#	

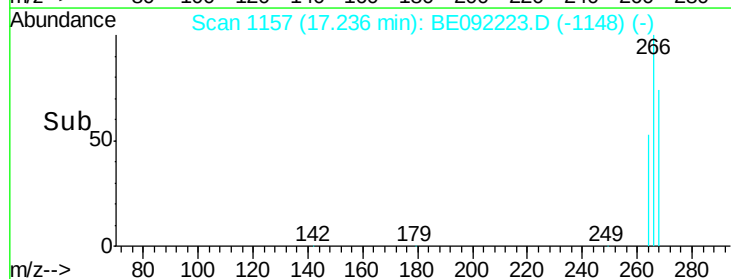
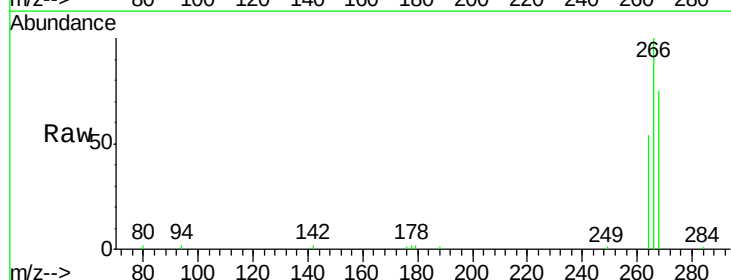
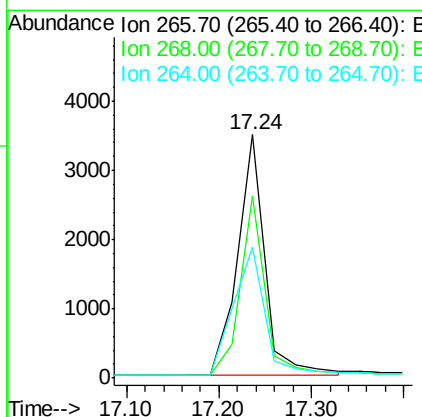
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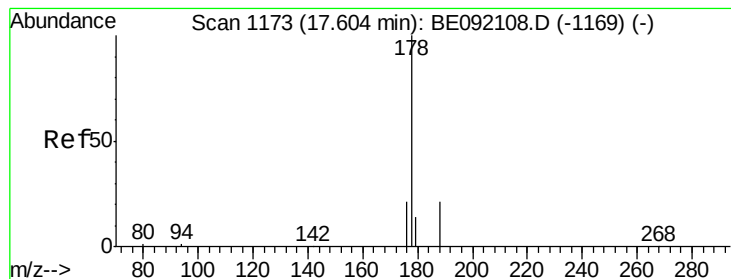
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#18
Pentachlorophenol
Concen: 7.43 ng
RT: 17.24 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	7139		
268	74.9	62.7	94.1	
264	53.7	63.5	95.3#	





#19

Phenanthrene

Concen: 3.92 ng

RT: 17.61 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

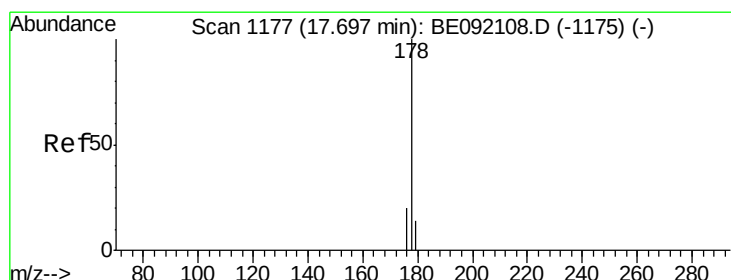
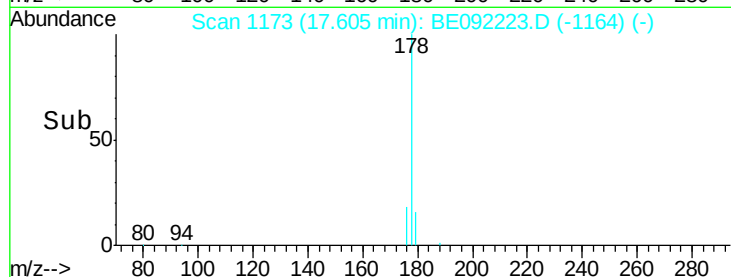
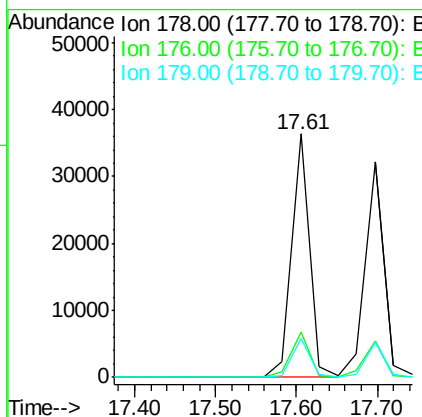
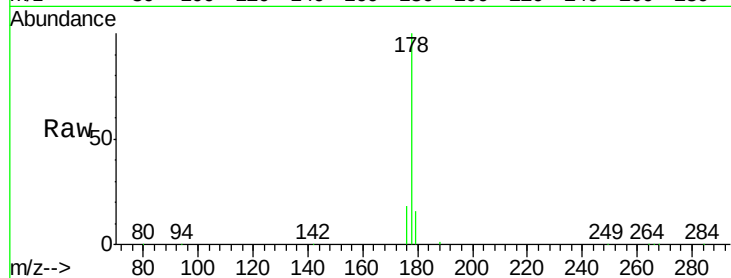
ClientSampleId :

PB92497BS

Tgt Ion:	178	Resp:	55936
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.4	23.0
179	15.8	12.7	19.1

Manual Integrations
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#20

Anthracene

Concen: 3.70 ng

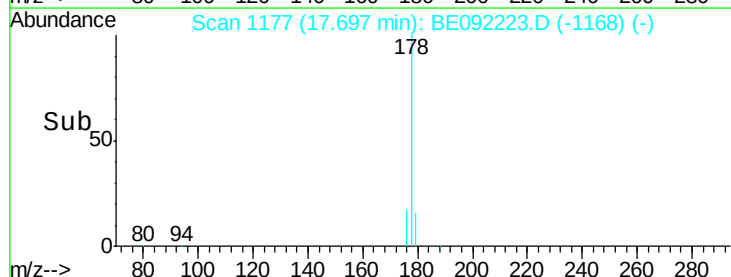
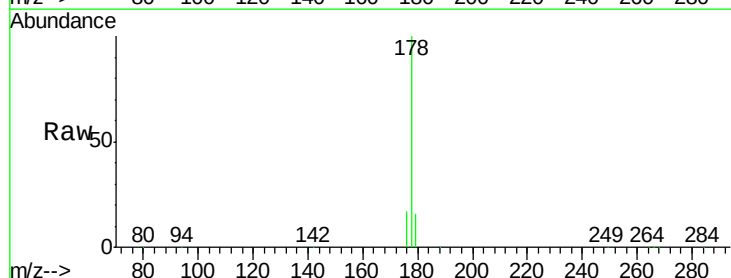
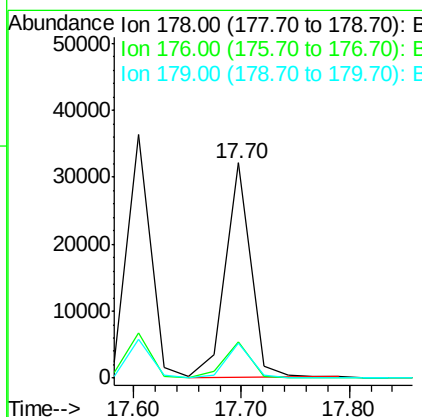
RT: 17.70 min Scan# 1177

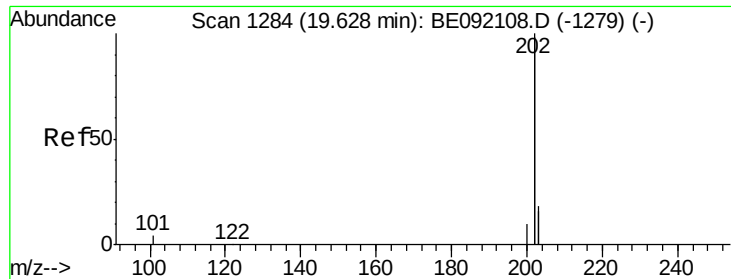
Delta R.T. 0.00 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Tgt Ion:	178	Resp:	51553
Ion Ratio	Lower	Upper	
178	100		
176	17.9	15.2	22.8
179	15.5	12.2	18.4





#21

Fluoranthene

Concen: 3.54 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

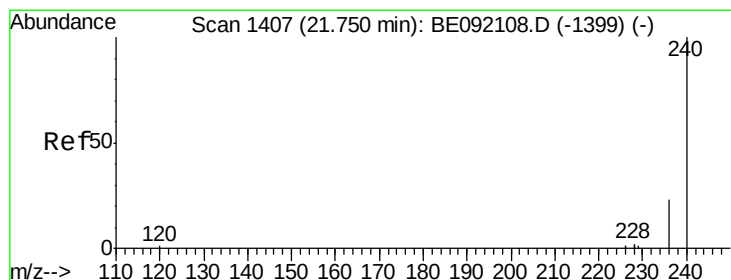
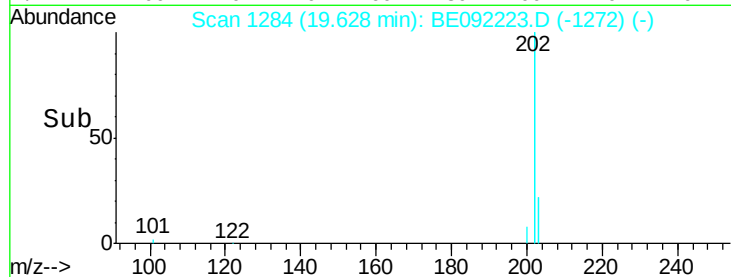
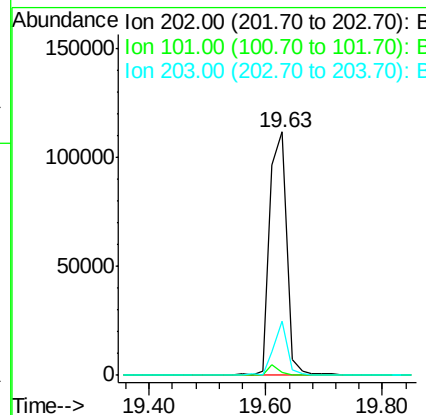
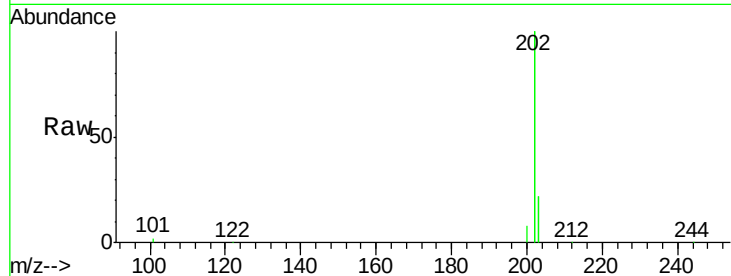
ClientSampleId :

PB92497BS

Tgt Ion:	202	Resp:	226670
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.2
203	17.6	13.0	19.4

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#22

Chrysene-d12

Concen: 5.00 ng

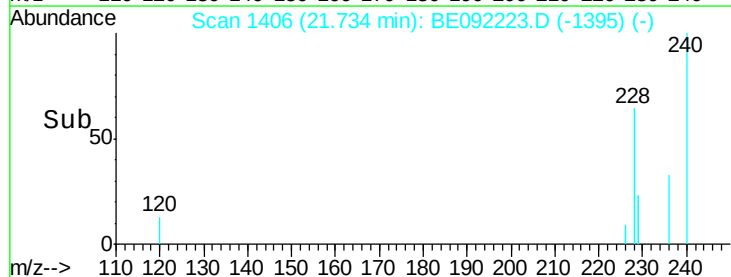
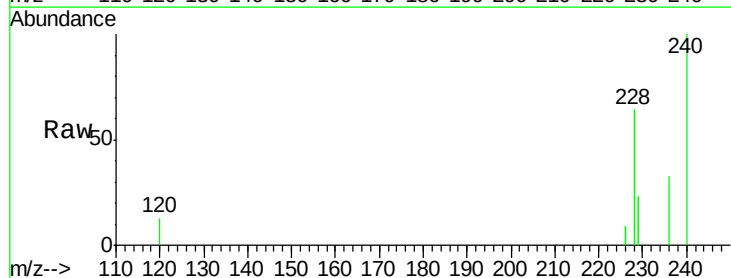
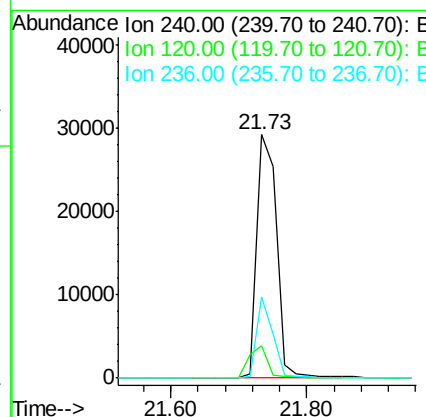
RT: 21.73 min Scan# 1406

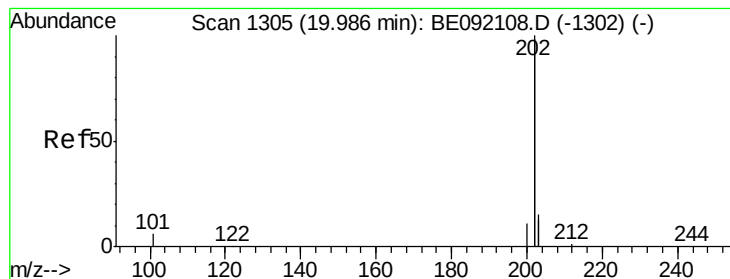
Delta R.T. -0.02 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Tgt Ion:	240	Resp:	58561
Ion Ratio	Lower	Upper	
240	100		
120	13.4	0.6	1.0#
236	33.0	18.2	27.4#





#23

Pyrene

Concen: 4.01 ng

RT: 19.99 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

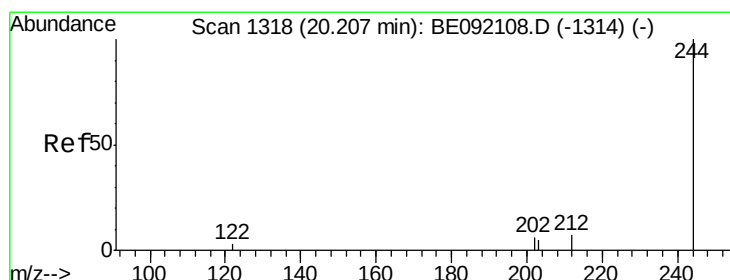
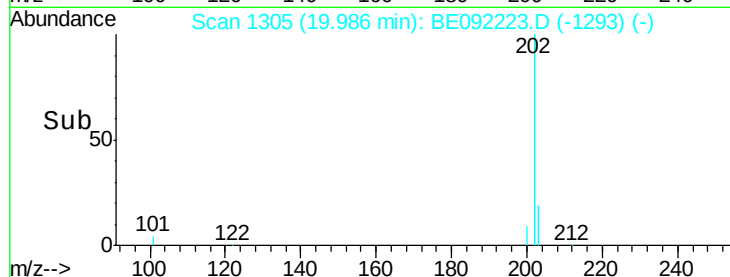
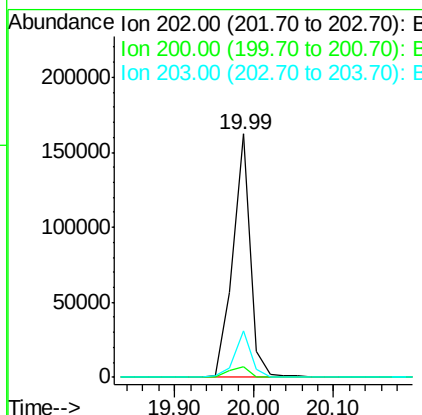
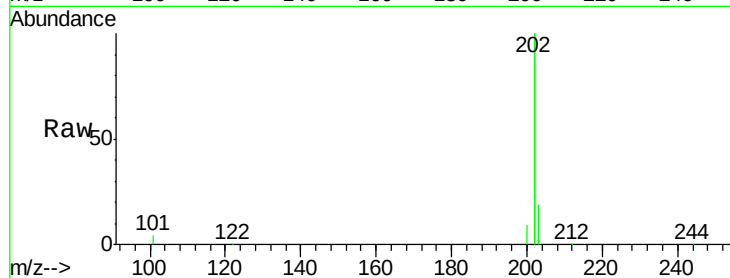
ClientSampleId :

PB92497BS

Tgt Ion:	202	Resp:	245559
Ion Ratio		Lower	Upper
202	100		
200	5.3	4.4	6.6
203	17.9	13.4	20.0

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#24

Terphenyl-d14

Concen: 4.66 ng

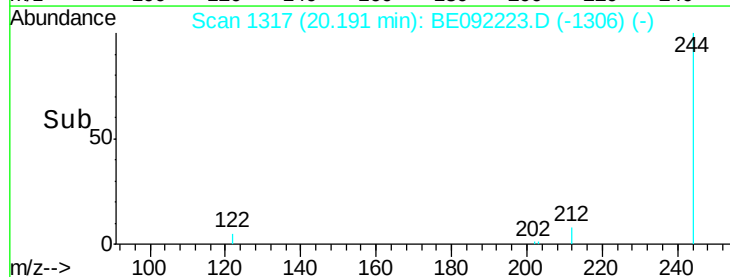
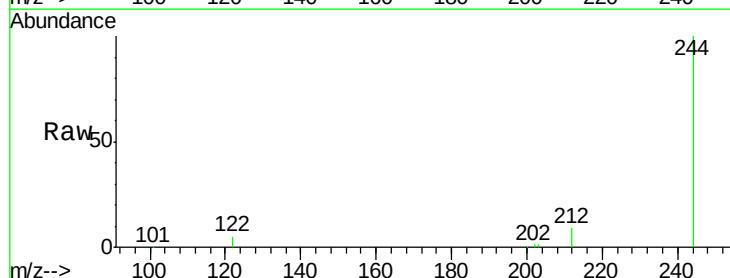
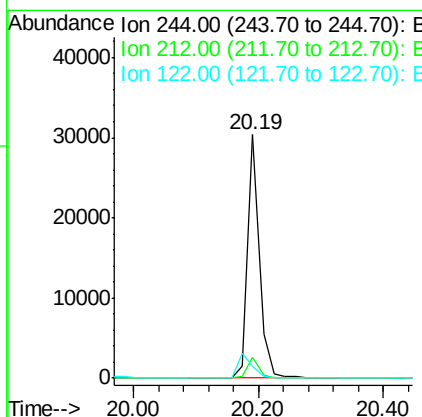
RT: 20.19 min Scan# 1317

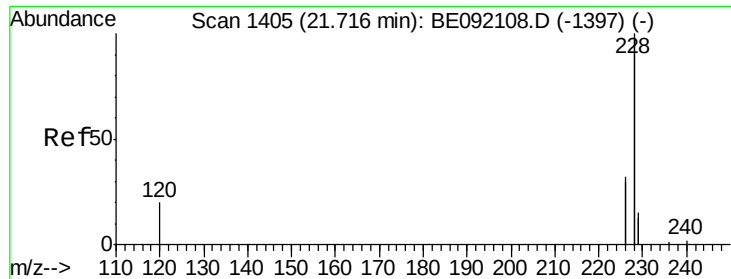
Delta R.T. -0.02 min

Lab File: BE092223.D

Acq: 8 Aug 2016 19:34

Tgt Ion:	244	Resp:	39153
Ion Ratio		Lower	Upper
244	100		
212	8.6	9.1	13.7#
122	5.0	11.0	16.4#





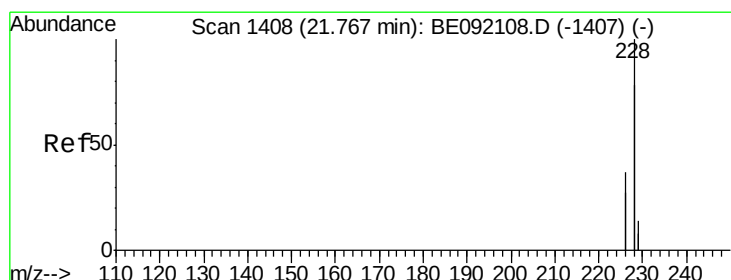
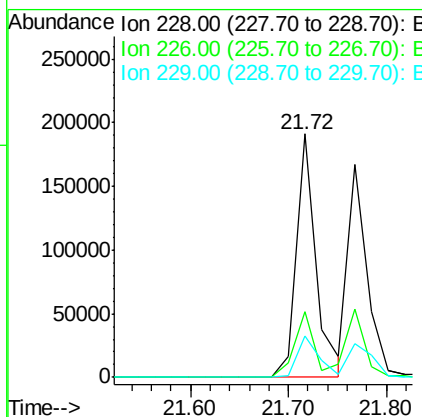
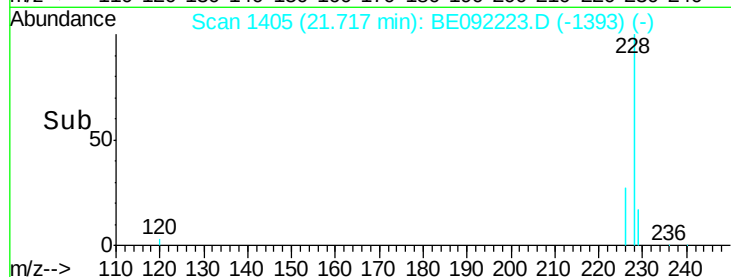
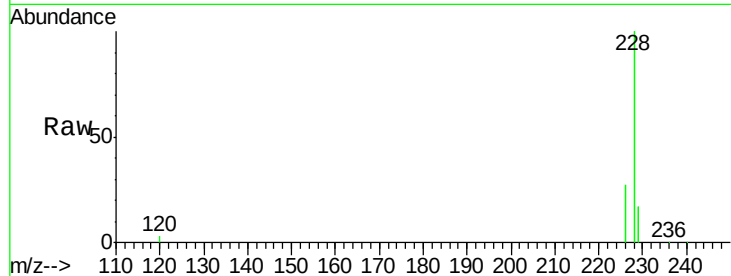
#25
Benzo(a)anthracene
Concen: 4.10 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Instrument :
BNA_E
ClientSampleId :
PB92497BS

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	264049		
226	26.9	22.1	33.1	
229	16.9	15.1	22.7	

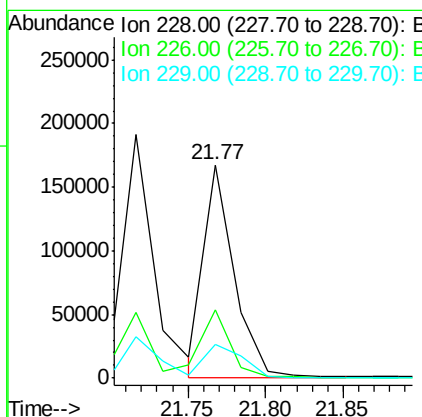
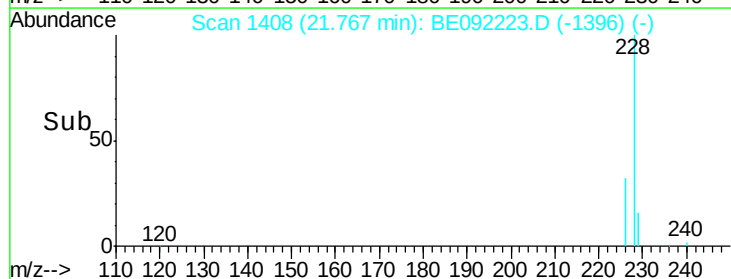
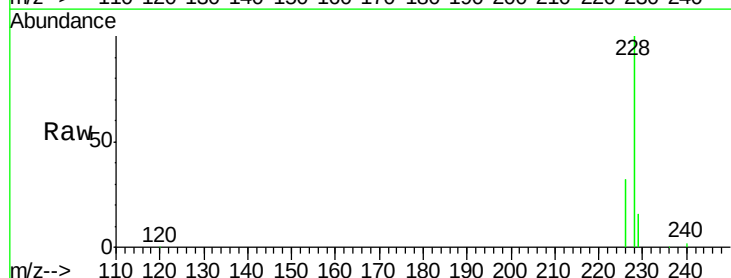
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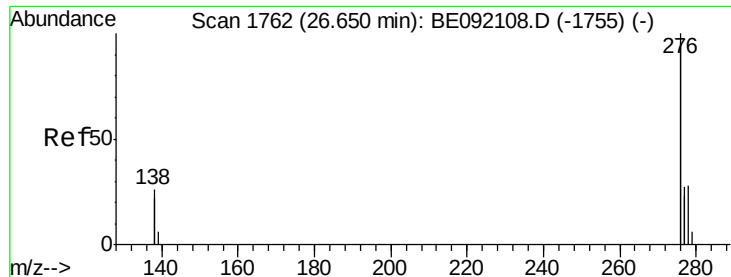
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#26
Chrysene
Concen: 3.61 ng m
RT: 21.77 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	232997		
226	31.8	22.3	33.5	
229	16.0	16.9	25.3#	





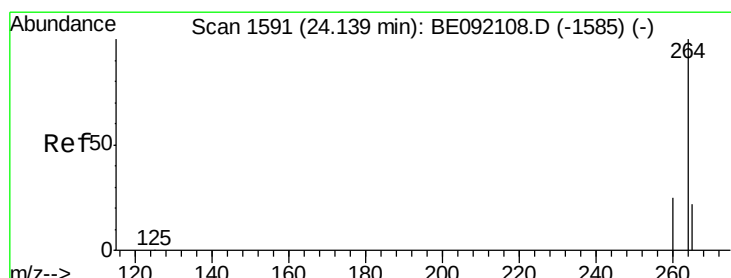
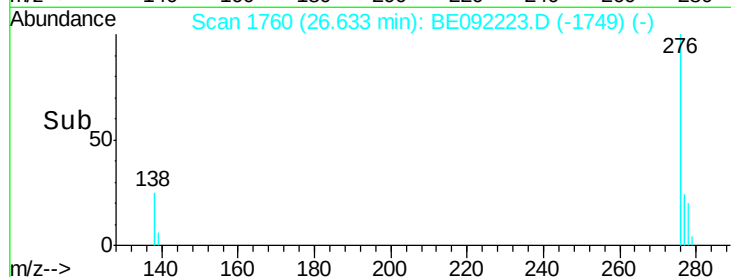
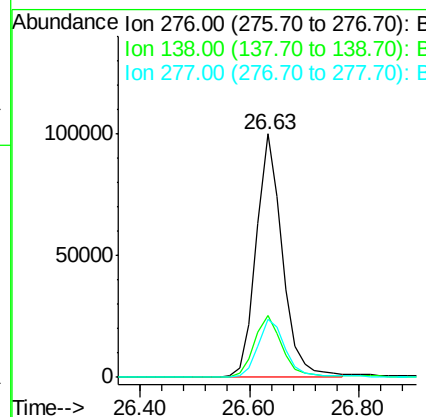
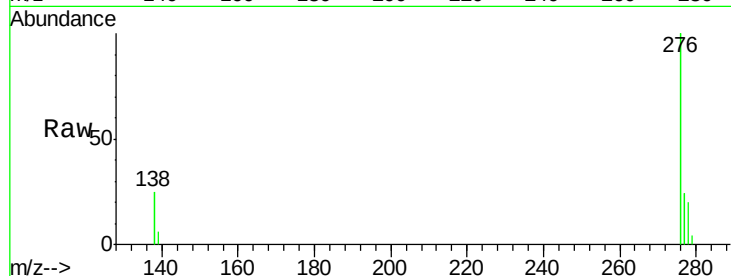
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 4.72 ng
 RT: 26.63 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BE092223.D
 Acq: 8 Aug 2016 19:34

Instrument :
 BNA_E
 ClientSampleId :
 PB92497BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.4	21.2	31.8
277	24.7	19.8	29.8

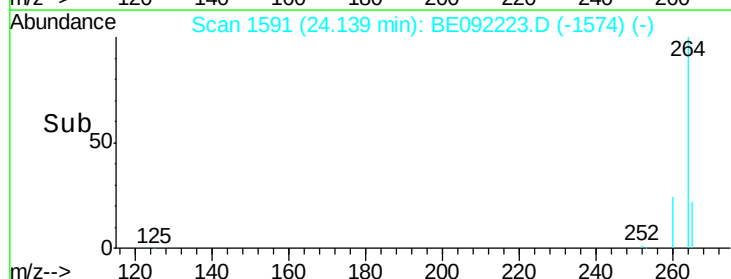
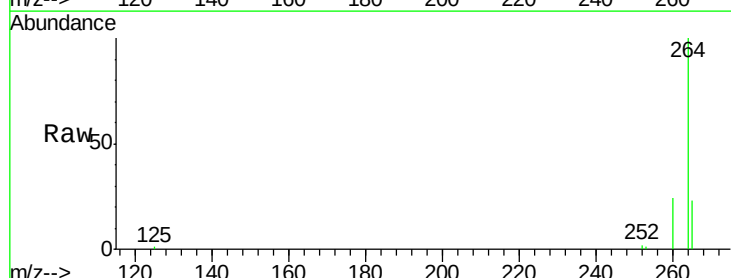
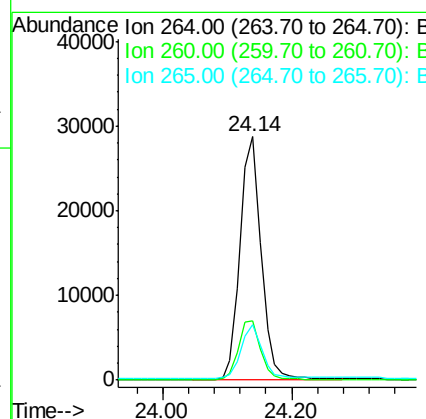
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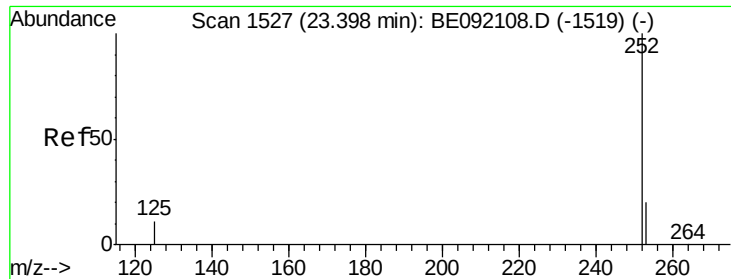
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092223.D
 Acq: 8 Aug 2016 19:34

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.3	20.8	31.2
265	22.6	16.6	25.0





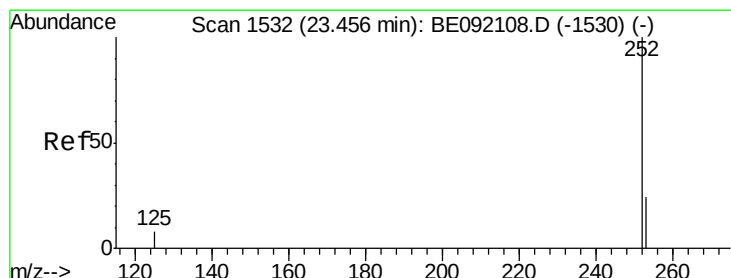
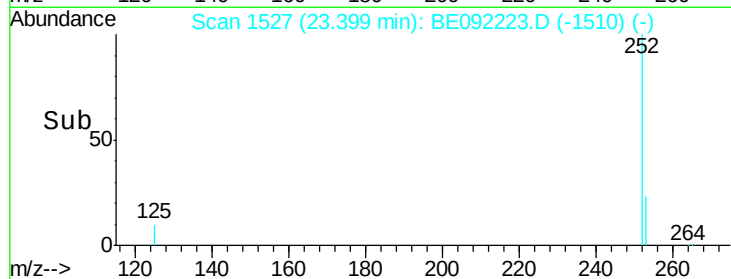
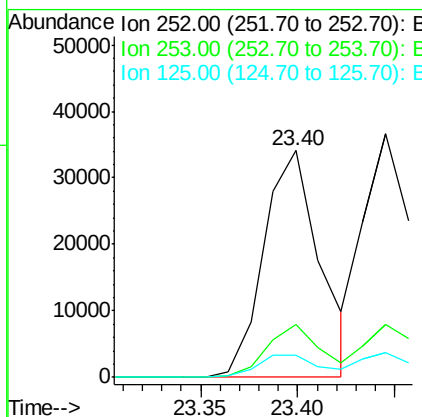
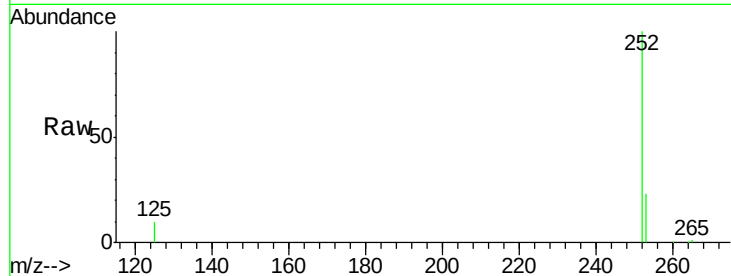
#29
Benzo(b)fluoranthene
Concen: 3.86 ng m
RT: 23.40 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Instrument :
BNA_E
ClientSampleId :
PB92497BS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.0
125	9.9	10.2	15.2

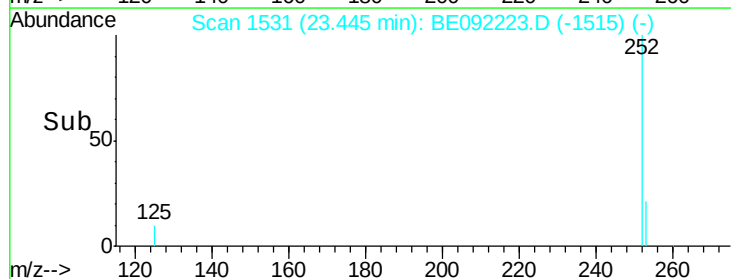
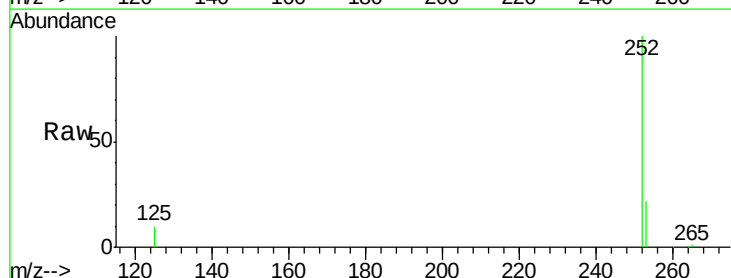
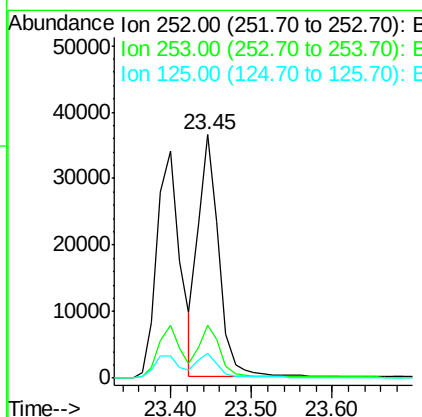
Manual Integrations
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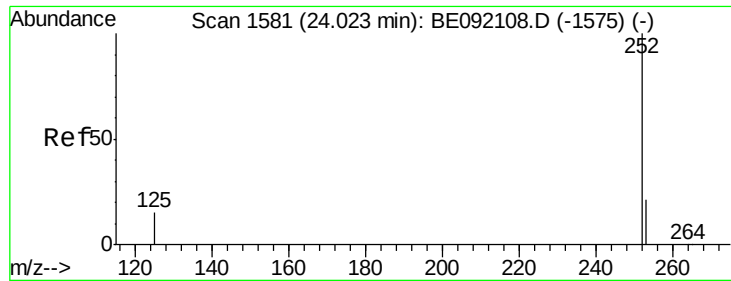
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#30
Benzo(k)fluoranthene
Concen: 3.84 ng
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092223.D
Acq: 8 Aug 2016 19:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.4	29.0
125	10.3	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: BE092223.D

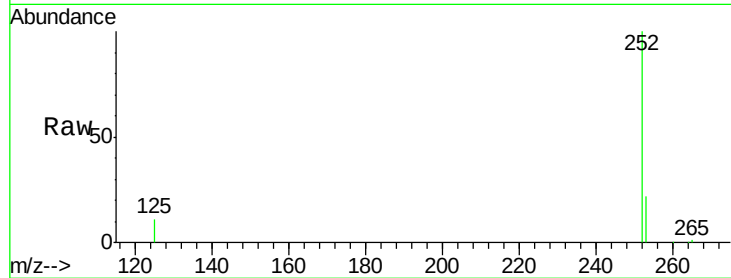
Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

ClientSampleId :

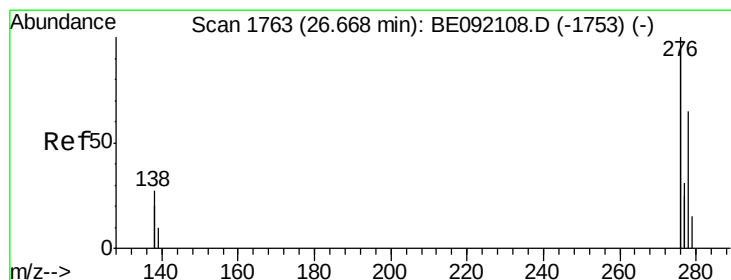
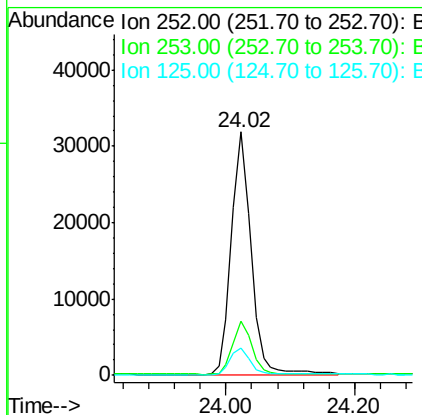
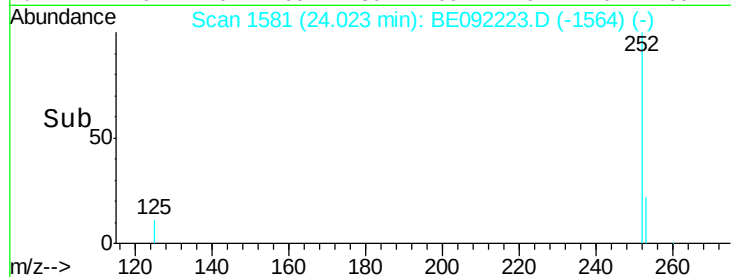
PB92497BS



Tgt Ion:	252	Resp:	67141
Ion Ratio	Lower	Upper	
252	100		
253	22.3	19.8	29.8
125	11.3	10.4	15.6

Manual Integrations
APPROVED

umangi
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#32

Dibenzo(a,h)anthracene

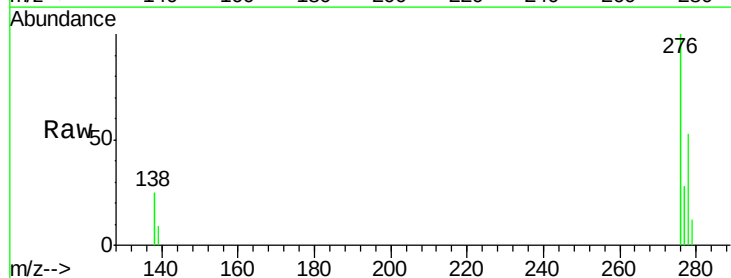
Concen: 4.38 ng

RT: 26.65 min Scan# 1761

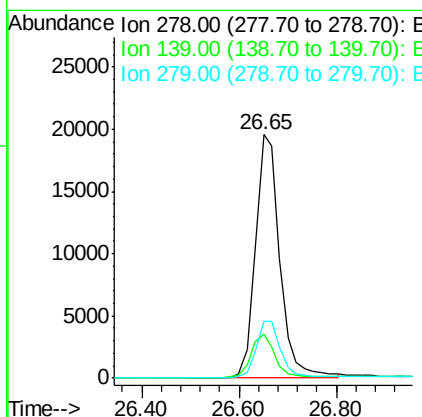
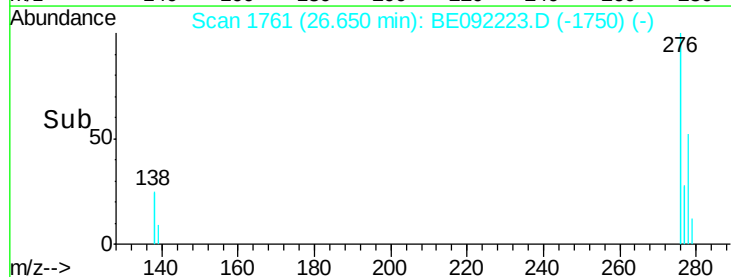
Delta R.T. -0.02 min

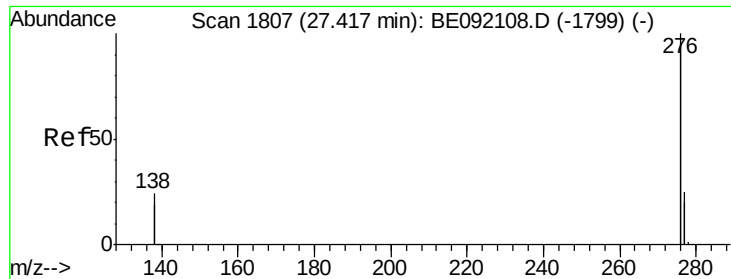
Lab File: BE092223.D

Acq: 8 Aug 2016 19:34



Tgt Ion:	278	Resp:	68329
Ion Ratio	Lower	Upper	
278	100		
139	17.8	16.7	25.1
279	23.2	20.3	30.5





#33

Benzo(g,h,i)perylene

Concen: 4.26 ng

RT: 27.40 min Scan# 1805

Delta R.T. -0.02 min

Lab File: BE092223.D

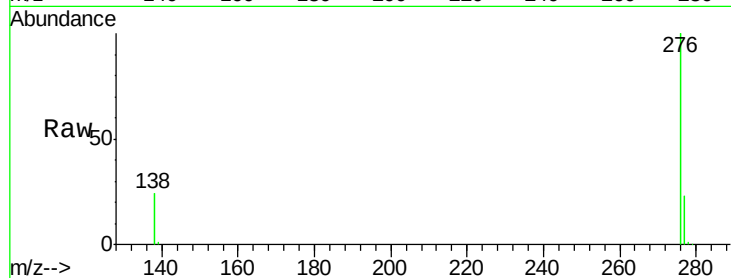
Acq: 8 Aug 2016 19:34

Instrument :

BNA_E

ClientSampleId :

PB92497BS



Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		283577		
277	22.9	19.5	29.3		
138	24.0	20.8	31.2		

Manual Integrations
APPROVED

umangi
8/9/2016 2:39:21 PM

