

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE041116\
 Data File : BE091635.D
 Acq On : 11 Apr 2016 19:17
 Operator : UM/SJ
 Sample : PB89409BSD
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB89409BSD

Quant Time: Apr 12 01:48:00 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE040816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 08 16:48:14 2016
 Response via : Initial Calibration

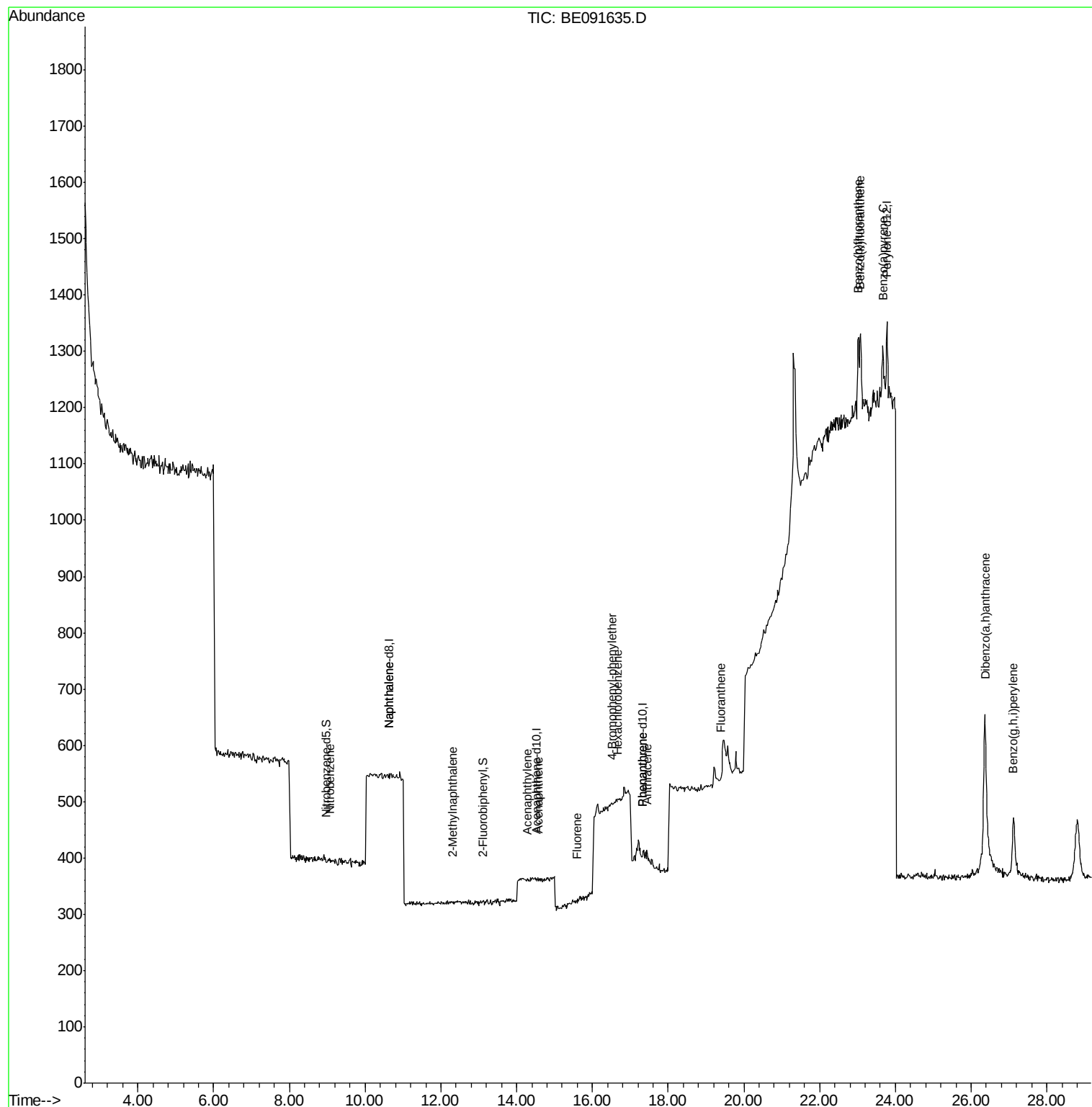
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng	-7.82
7) Naphthalene-d8	10.63	136	9	5.00	ng	0.04
13) Acenaphthene-d10	14.51	164	2	5.00	ng	0.09
19) Phenanthrene-d10	17.33	188	3	5.00	ng	0.17
26) Chrysene-d12	0.00	240	0	0.00	ng	-21.31
35) Perylene-d12	23.77	264	327	5.00	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.44	112	17	0.00	ng	0.03
5) Phenol-d6	7.04	99	7	0.00	ng	0.07
8) Nitrobenzene-d5	8.98	82	4	7.65	ng	0.02
14) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
15) 2-Fluorobiphenyl	13.10	172	5	8.99	ng	0.06
29) Terphenyl-d14	19.78	244	105	0.00	ng	0.02
Target Compounds						
9) Nitrobenzene	9.06	77	8	11.92	ng	# 22
10) Naphthalene	10.63	128	16	8.62	ng	# 1
12) 2-Methylnaphthalene	12.29	142	6	5.06	ng	# 48
16) Acenaphthylene	14.27	152	5	6.44	ng	# 14
17) Acenaphthene	14.57	154	5	10.19	ng	# 1
18) Fluorene	15.60	166	7	11.41	ng	# 7
20) 4-Bromophenyl-phenylether	16.52	248	1	9.45	ng	# 1
21) Hexachlorobenzene	16.66	284	22	200.36	ng	# 50
23) Phenanthrene	17.33	178	28	40.89	ng	# 54
24) Anthracene	17.44	178	35	57.68	ng	# 1
25) Fluoranthene	19.40	202	16	22.08	ng	# 63
36) Benzo(b)fluoranthene	23.02	252	301	3.96	ng	# 1
37) Benzo(k)fluoranthene	23.07	252	359	4.79	ng	# 1
38) Benzo(a)pyrene	23.67	252	304	4.31	ng	# 1
39) Dibenzo(a,h)anthracene	26.38	278	694	9.99	ng	# 39
40) Benzo(g,h,i)perylene	27.12	276	384	5.37	ng	# 28

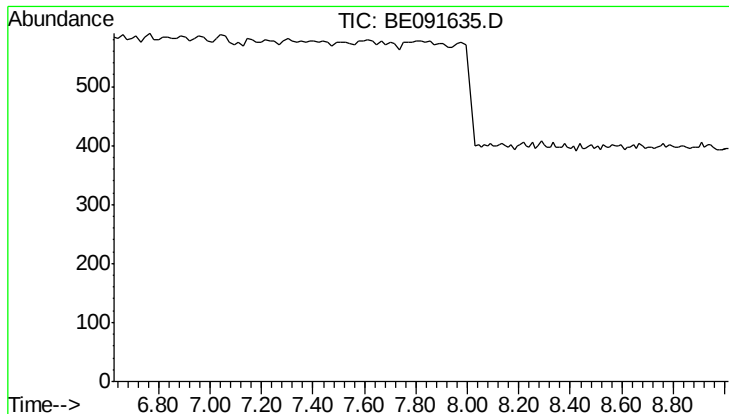
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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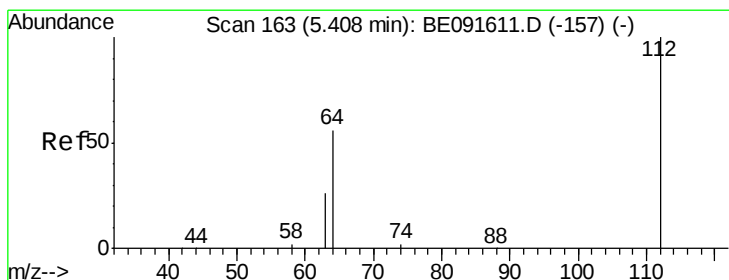
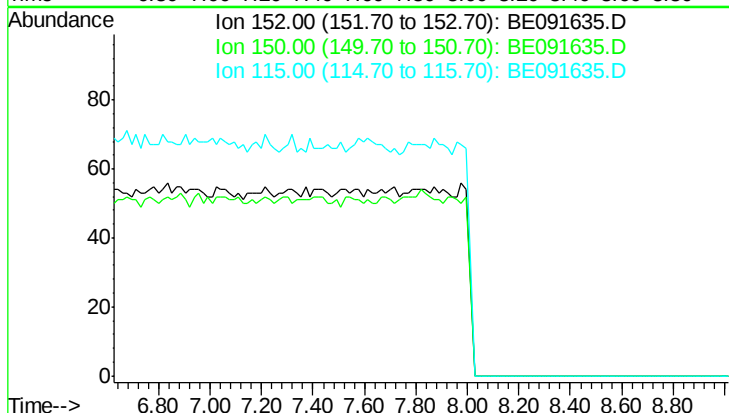




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.00 ng
 Expected RT: 7.82 min
 Lab File: BE091635.D
 Acq: 11 Apr 2016 19:17

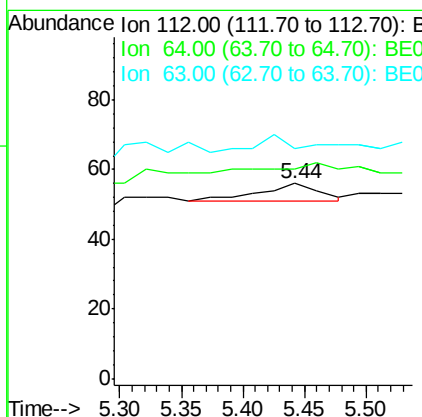
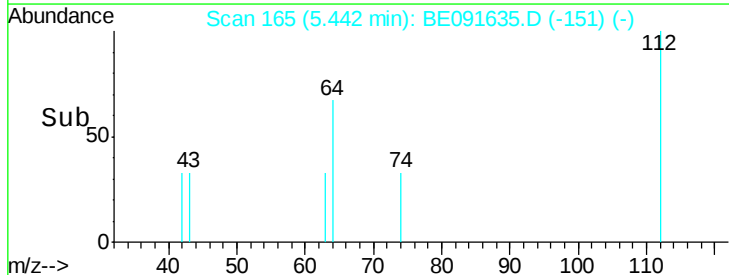
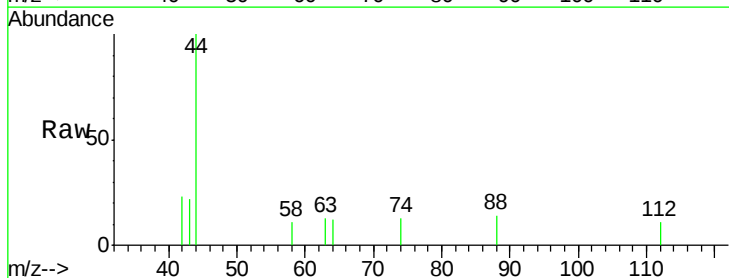
Instrument :
 BNA_E
 ClientSampleId :
 PB89409BSD

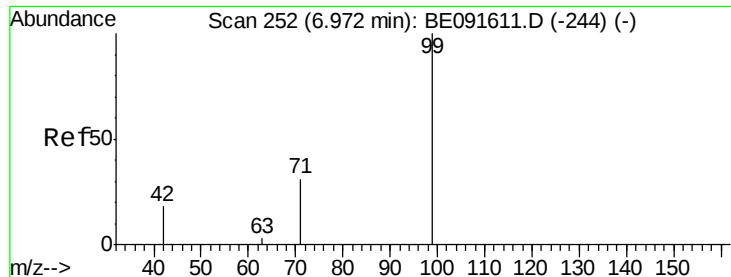
Tgt Ion: 152
 Sig Exp Ratio
 152 100
 150 153.2
 115 66.0



#4
 2-Fluorophenol
 Concen: 0.00 ng
 RT: 5.44 min Scan# 165
 Delta R.T. 0.03 min
 Lab File: BE091635.D
 Acq: 11 Apr 2016 19:17

Tgt Ion: 112 Resp: 17
 Ion Ratio Lower Upper
 112 100
 64 117.6 30.9 46.3#
 63 0.0 16.7 25.1#





#5

Phenol-d6

Concen: 0.00 ng

RT: 7.04 min Scan# 256

Delta R.T. 0.07 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Instrument :

BNA_E

ClientSampleId :

PB89409BSD

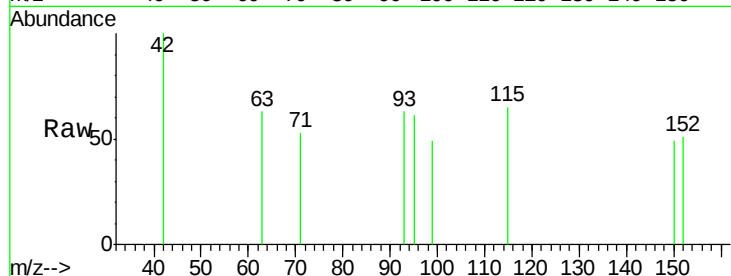
Tgt Ion: 99 Resp: 7

Ion Ratio Lower Upper

99 100

42 0.0 16.2 24.2#

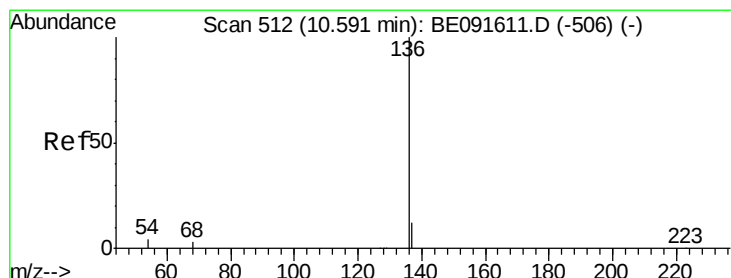
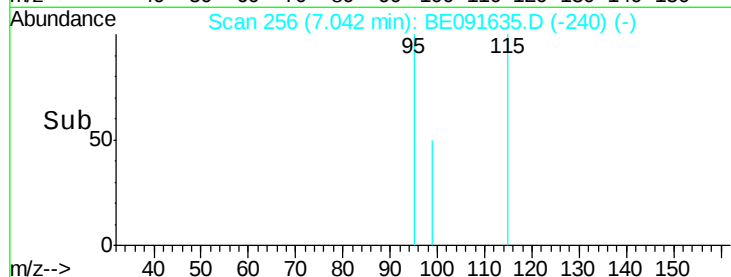
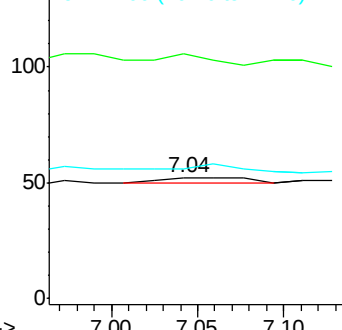
71 128.6 29.0 43.4#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.63 min Scan# 514

Delta R.T. 0.04 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Tgt Ion: 136 Resp: 9

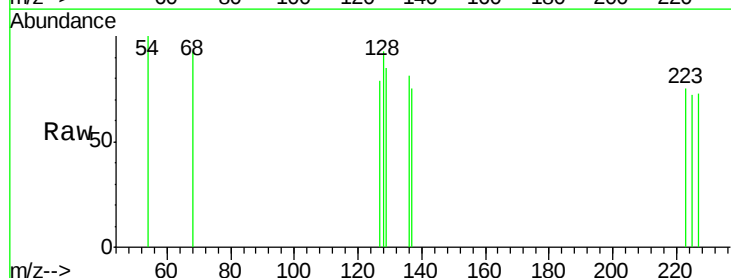
Ion Ratio Lower Upper

136 100

137 92.6 8.9 13.3#

54 124.1 8.2 12.4#

68 114.8 6.2 9.4#

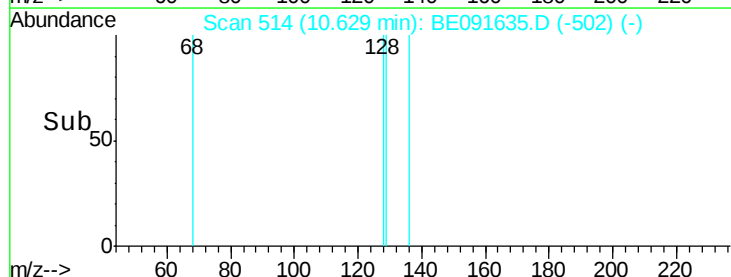
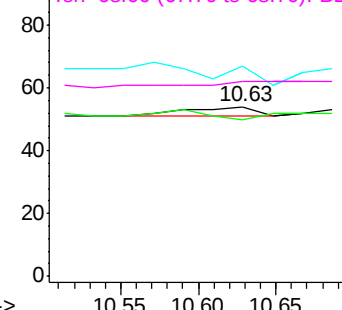


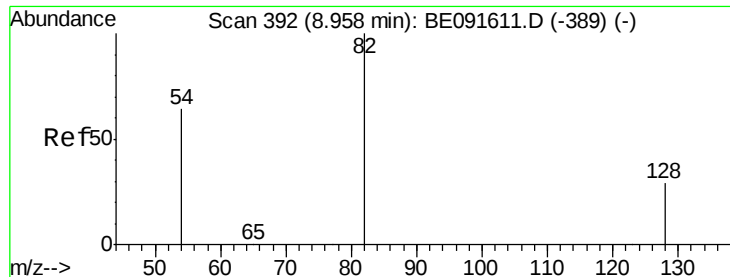
Abundance Ion 136.00 (135.70 to 136.70): E

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: 7.65 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.02 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Instrument :

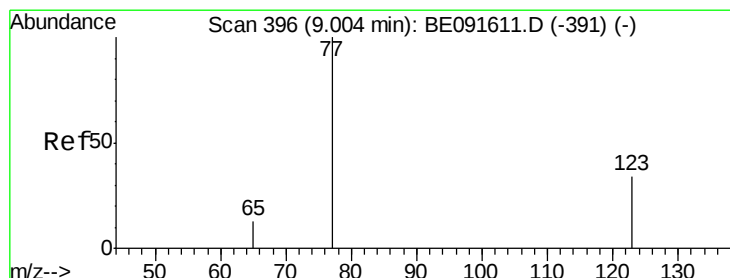
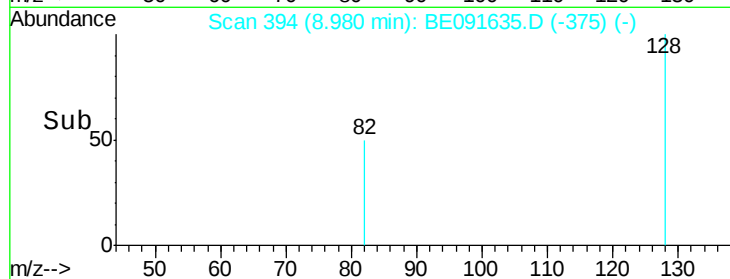
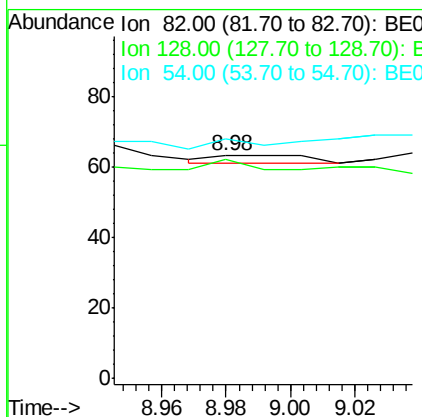
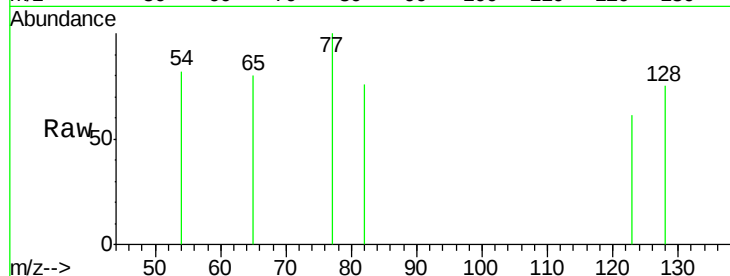
BNA_E

ClientSampleId :

PB89409BSD

Tgt Ion: 82 Resp: 4

Ion	Ratio	Lower	Upper
82	100		
128	98.4	25.4	38.0#
54	107.9	48.4	72.6#



#9

Nitrobenzene

Concen: 11.92 ng

RT: 9.06 min Scan# 401

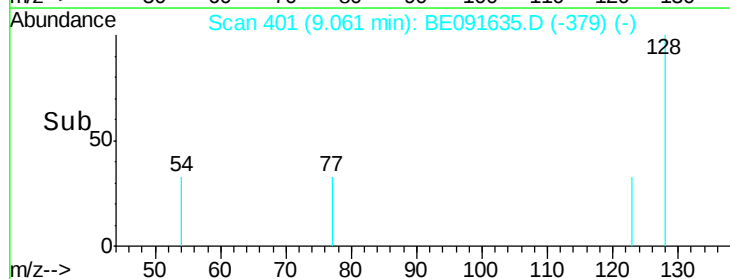
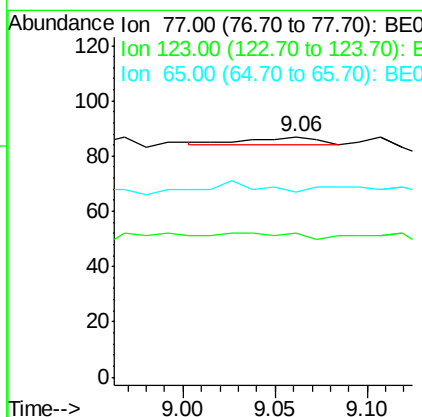
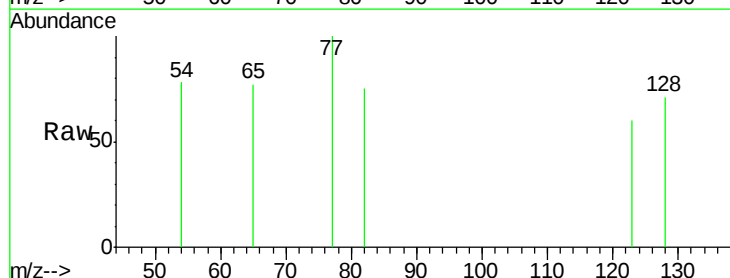
Delta R.T. 0.06 min

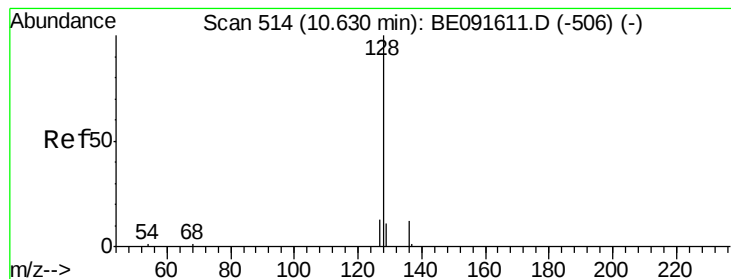
Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Tgt Ion: 77 Resp: 8

Ion	Ratio	Lower	Upper
77	100		
123	0.0	26.9	40.3#
65	62.5	9.4	14.2#





#10

Naphthalene

Concen: 8.62 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.00 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Instrument :

BNA_E

ClientSampleId :

PB89409BSD

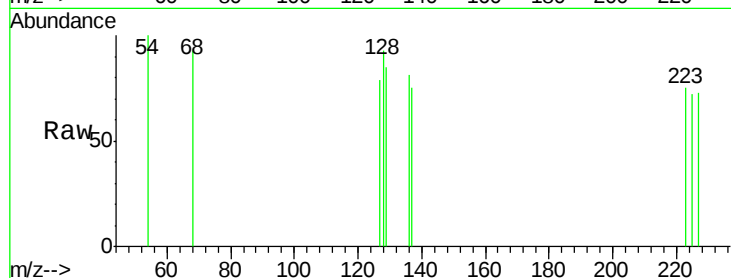
Tgt Ion:128 Resp: 16

Ion Ratio Lower Upper

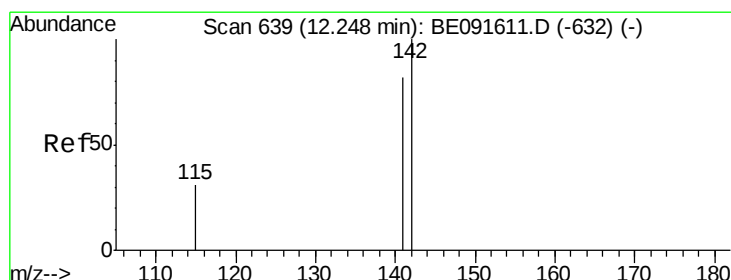
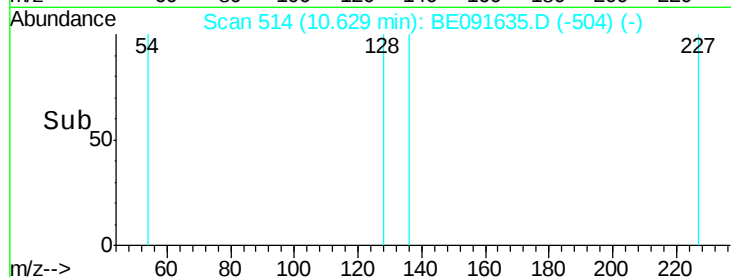
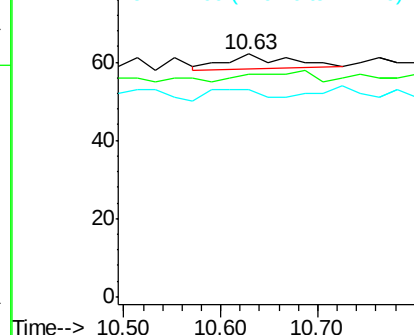
128 100

129 91.9 9.3 13.9#

127 85.5 10.7 16.1#



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#12

2-Methylnaphthalene

Concen: 5.06 ng

RT: 12.29 min Scan# 643

Delta R.T. 0.05 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

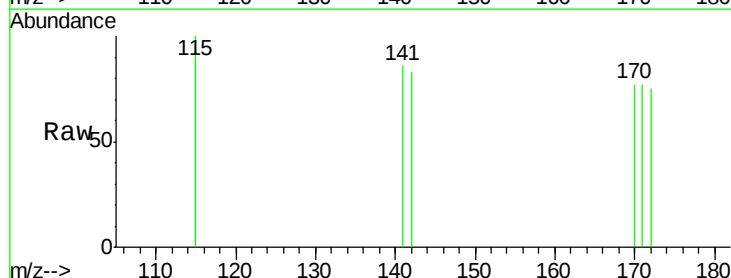
Tgt Ion:142 Resp: 6

Ion Ratio Lower Upper

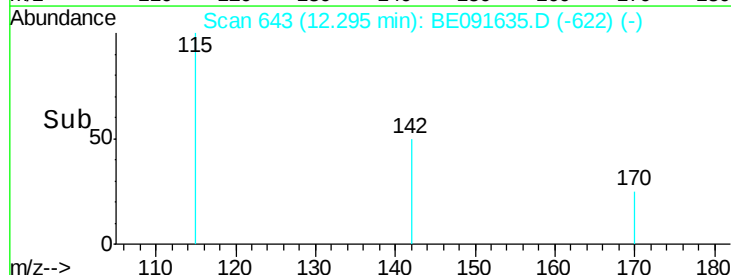
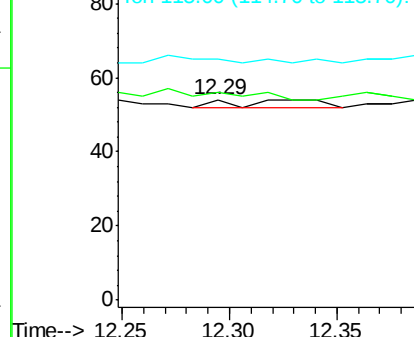
142 100

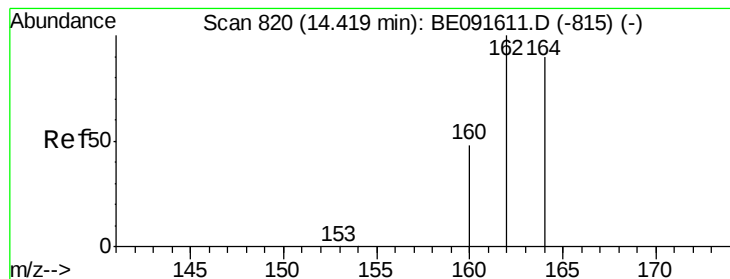
141 103.7 71.4 107.0

115 120.4 30.3 45.5#



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.51 min Scan# 827

Delta R.T. 0.09 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

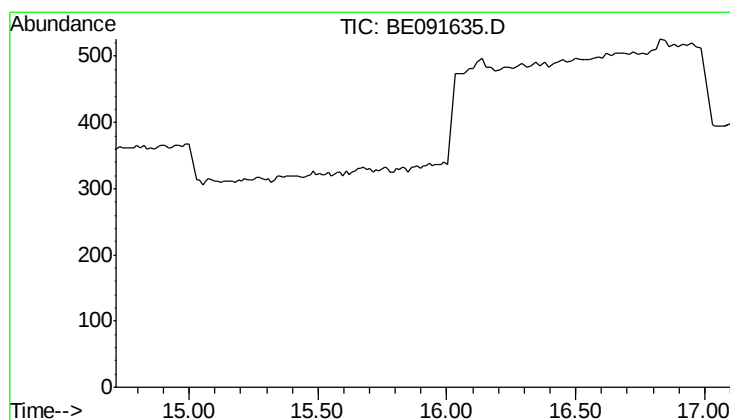
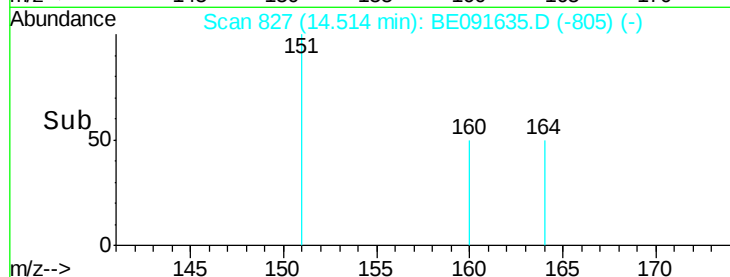
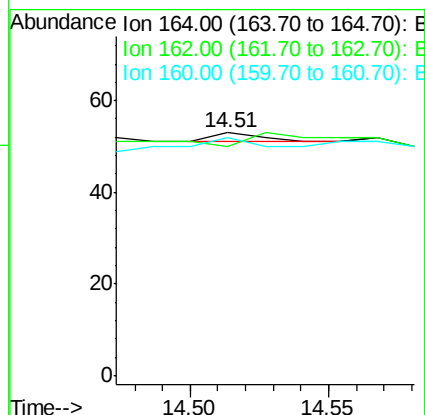
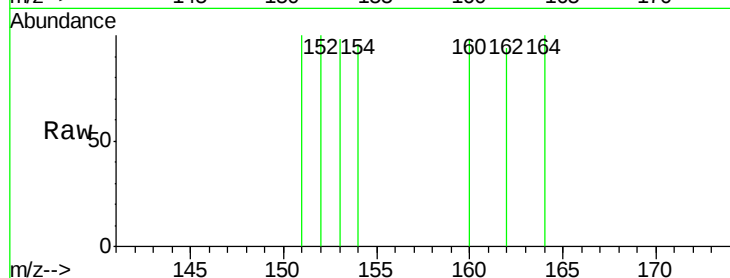
Instrument :

BNA_E

ClientSampleId :

PB89409BSD

Tgt Ion:	164	Resp:	2
Ion	Ratio	Lower	Upper
164	100		
162	94.3	85.3	127.9
160	98.1	46.2	69.2#



#14

2,4,6-Tribromophenol

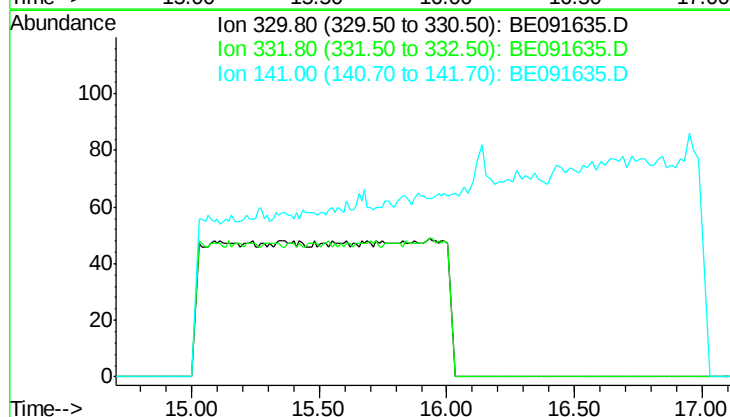
Concen: 0.00 ng

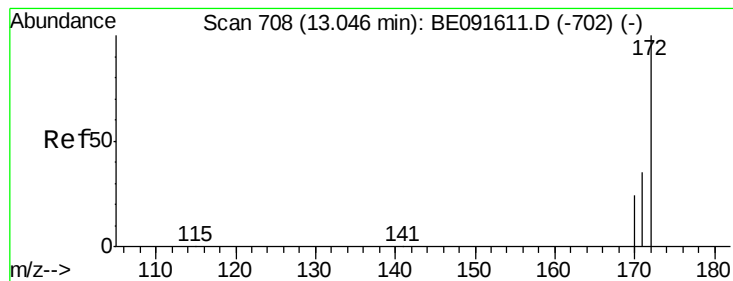
Expected RT: 15.91 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Tgt Ion:	330
Sig	Exp Ratio
330	100
332	98.9
141	156.7

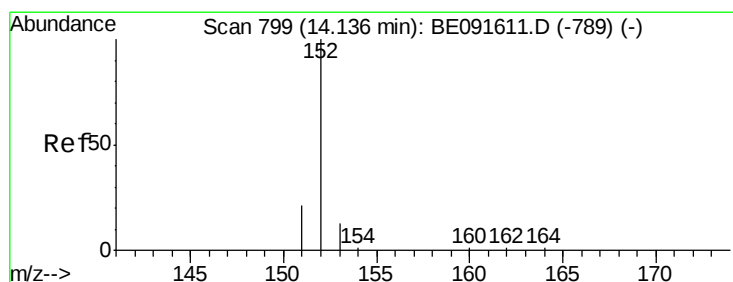
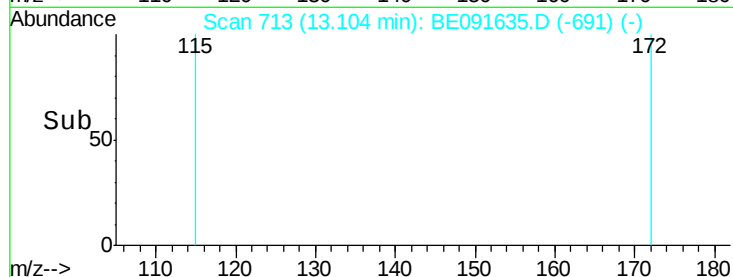
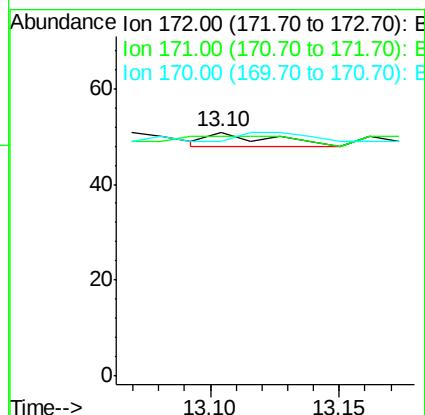
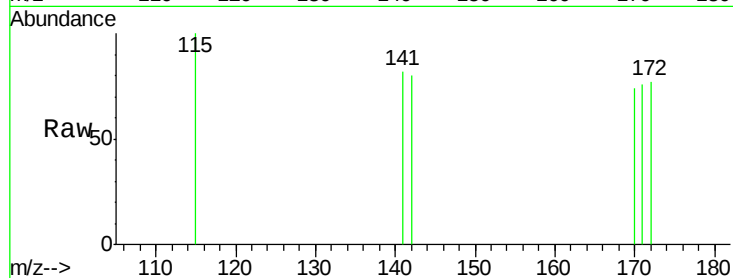




#15
2-Fluorobiphenyl
Concen: 8.99 ng
RT: 13.10 min Scan# 713
Delta R.T. 0.06 min
Lab File: BE091635.D
Acq: 11 Apr 2016 19:17

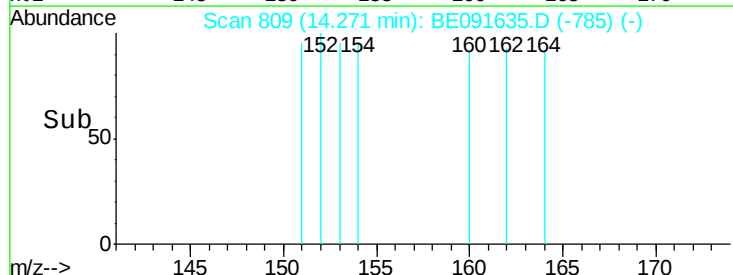
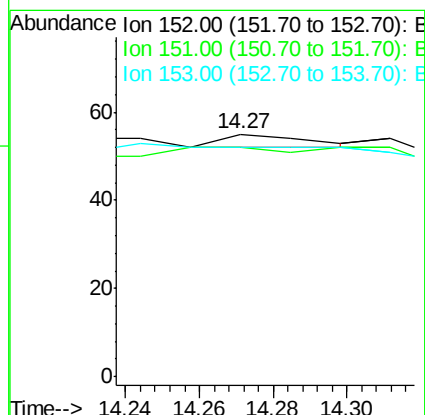
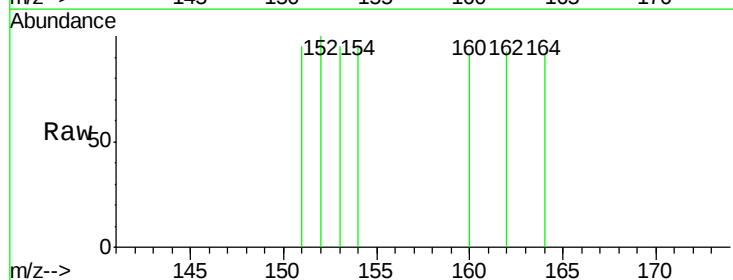
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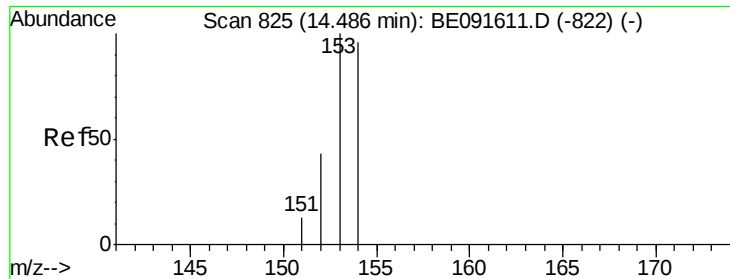
Tgt Ion:172 Resp: 5
Ion Ratio Lower Upper
172 100
171 98.0 28.8 43.2#
170 96.1 19.3 28.9#



#16
Acenaphthylene
Concen: 6.44 ng
RT: 14.27 min Scan# 809
Delta R.T. 0.14 min
Lab File: BE091635.D
Acq: 11 Apr 2016 19:17

Tgt Ion:152 Resp: 5
Ion Ratio Lower Upper
152 100
151 80.0 3.9 5.9#
153 0.0 10.3 15.5#

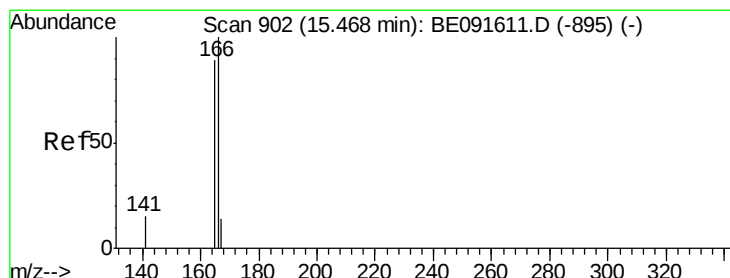
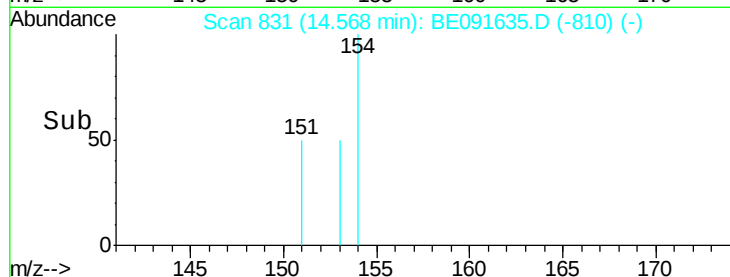
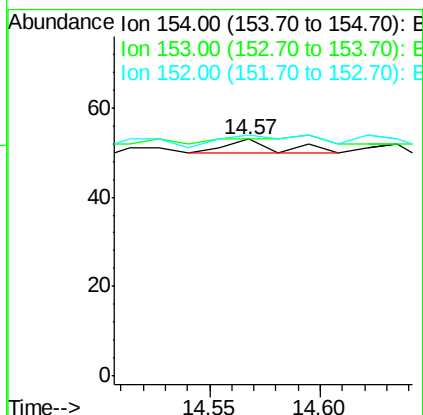
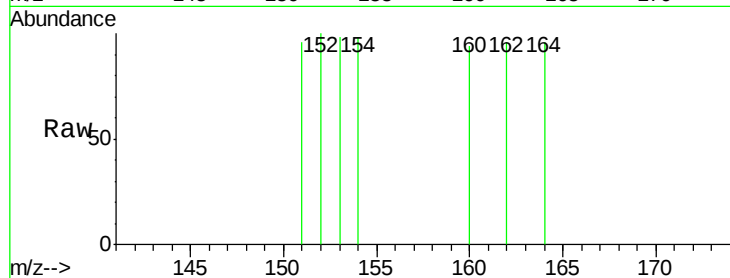




#17
Acenaphthene
Concen: 10.19 ng
RT: 14.57 min Scan# 831
Delta R.T. 0.08 min
Lab File: BE091635.D
Acq: 11 Apr 2016 19:17

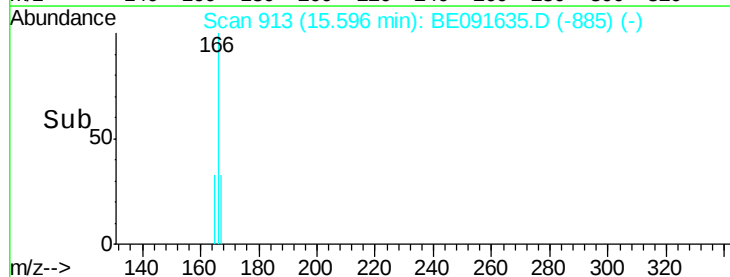
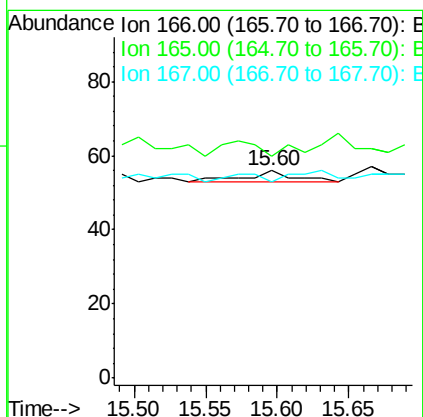
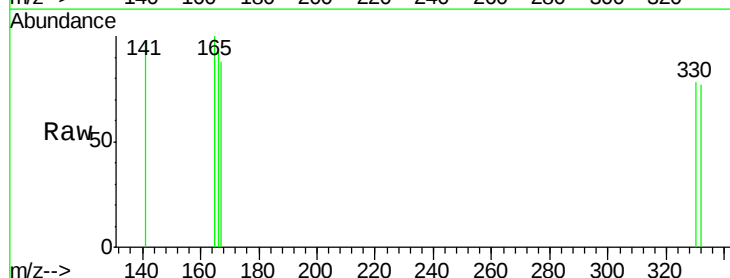
Instrument :
BNA_E
ClientSampleId :
PB89409BSD

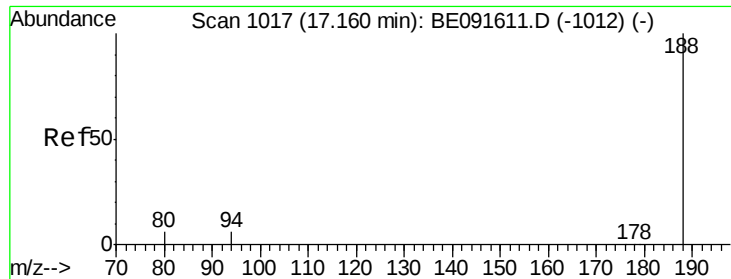
Tgt Ion:154 Resp: 5
Ion Ratio Lower Upper
154 100
153 0.0 80.0 120.0#
152 180.0 40.0 60.0#



#18
Fluorene
Concen: 11.41 ng
RT: 15.60 min Scan# 913
Delta R.T. 0.13 min
Lab File: BE091635.D
Acq: 11 Apr 2016 19:17

Tgt Ion:166 Resp: 7
Ion Ratio Lower Upper
166 100
165 0.0 80.8 121.2#
167 0.0 10.9 16.3#





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.33 min Scan# 1031

Delta R.T. 0.17 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Instrument :

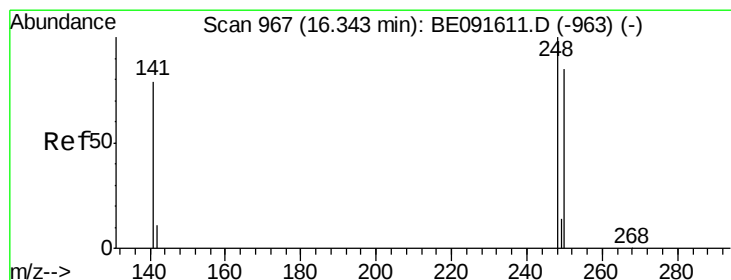
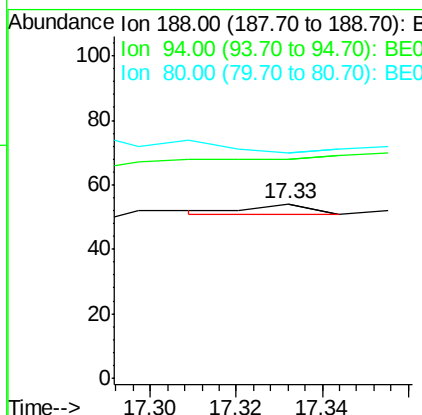
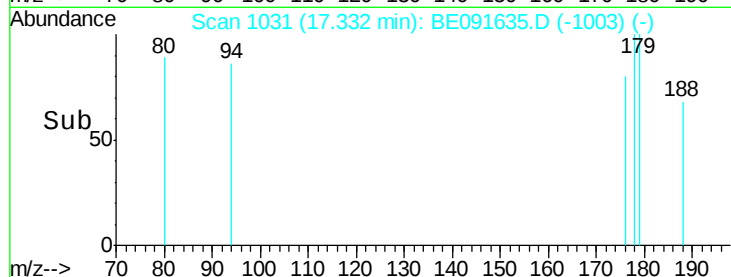
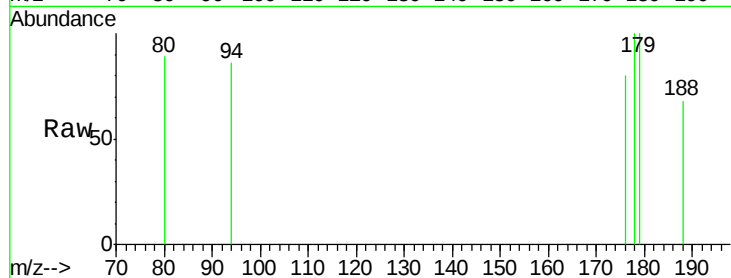
BNA_E

ClientSampleId :

PB89409BSD

Tgt Ion:188 Resp: 3

Ion	Ratio	Lower	Upper
188	100		
94	125.9	8.7	13.1#
80	129.6	9.4	14.0#



#20

4-Bromophenyl-phenylether

Concen: 9.45 ng

RT: 16.52 min Scan# 977

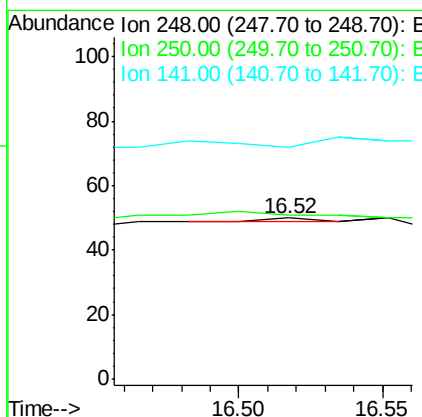
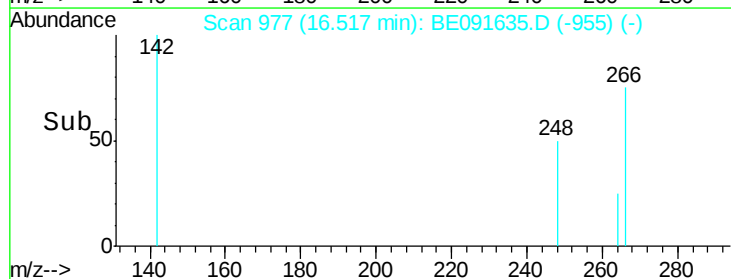
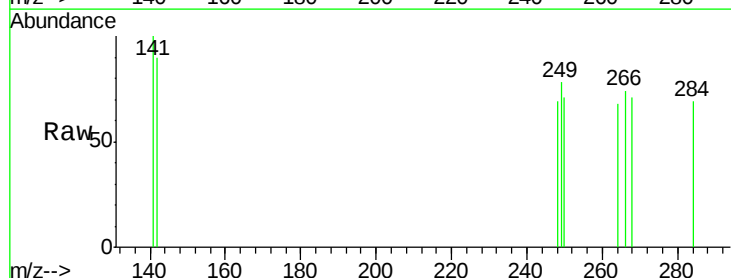
Delta R.T. 0.17 min

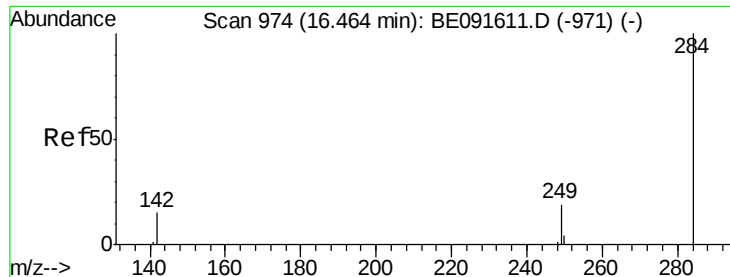
Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Tgt Ion:248 Resp: 1

Ion	Ratio	Lower	Upper
248	100		
250	500.0	80.5	120.7#
141	0.0	72.0	108.0#

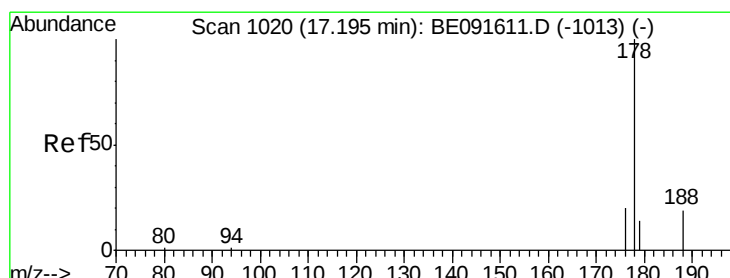
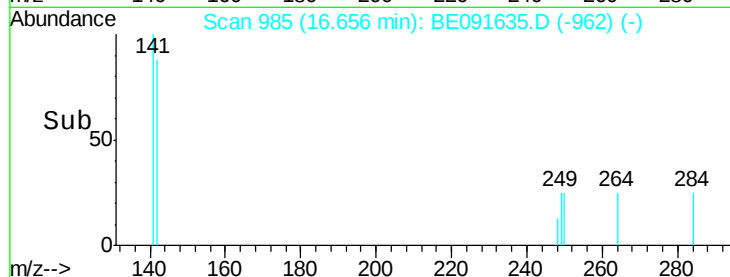
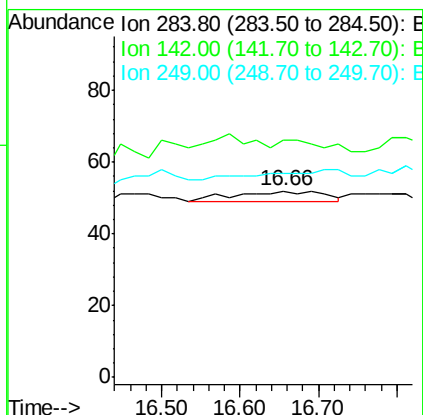
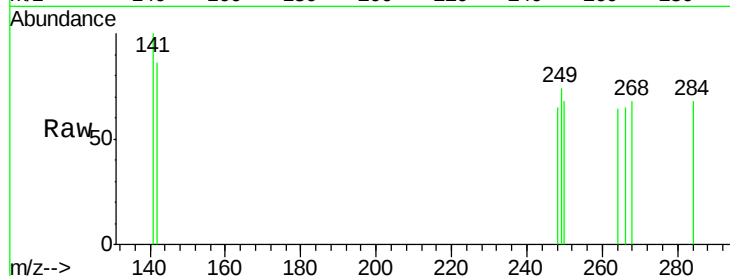




#21
Hexachlorobenzene
Concen: 200.36 ng
RT: 16.66 min Scan# 985
Delta R.T. 0.19 min
Lab File: BE091635.D
Acq: 11 Apr 2016 19:17

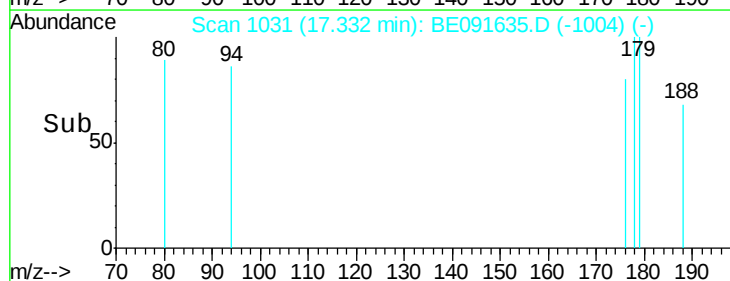
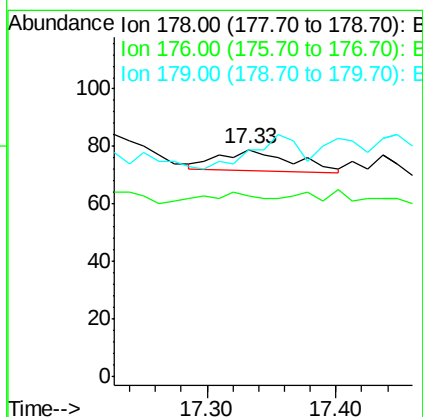
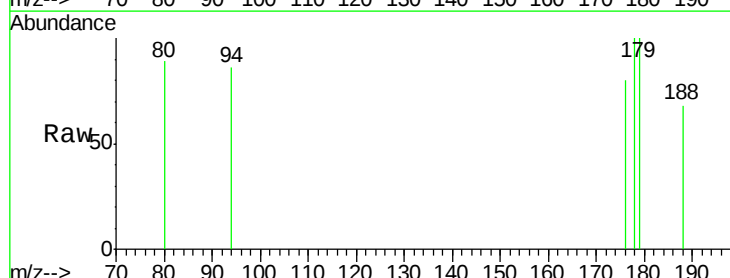
Instrument :
BNA_E
ClientSampleId :
PB89409BSD

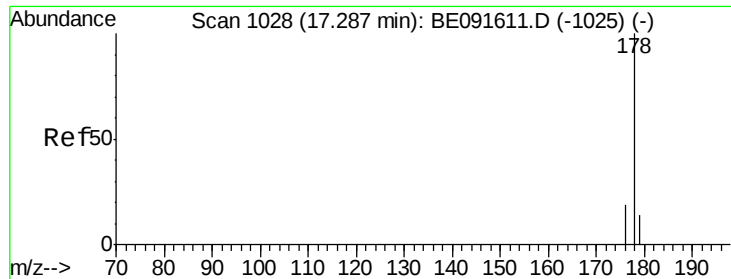
Tgt Ion: 284 Resp: 22
Ion Ratio Lower Upper
284 100
142 68.2 32.2 48.2#
249 0.0 25.4 38.2#



#23
Phenanthrene
Concen: 40.89 ng
RT: 17.33 min Scan# 1031
Delta R.T. 0.14 min
Lab File: BE091635.D
Acq: 11 Apr 2016 19:17

Tgt Ion: 178 Resp: 28
Ion Ratio Lower Upper
178 100
176 42.9 15.3 22.9#
179 0.0 12.6 18.8#





#24

Anthracene

Concen: 57.68 ng

RT: 17.44 min Scan# 1040

Delta R.T. 0.15 min

Lab File: BE091635.D

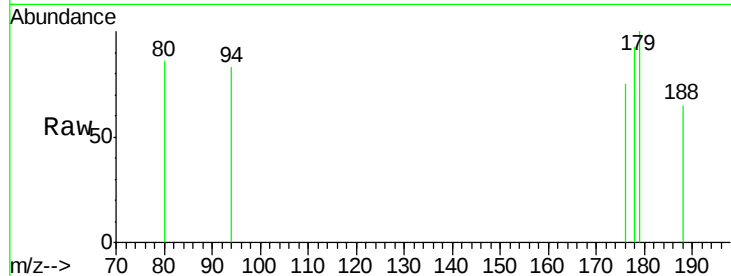
Acq: 11 Apr 2016 19:17

Instrument :

BNA_E

ClientSampleId :

PB89409BSD



Tgt Ion:178 Resp: 35

Ion Ratio Lower Upper

178 100

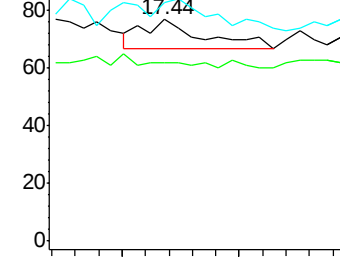
176 0.0 14.6 21.8#

179 108.6 11.8 17.6#

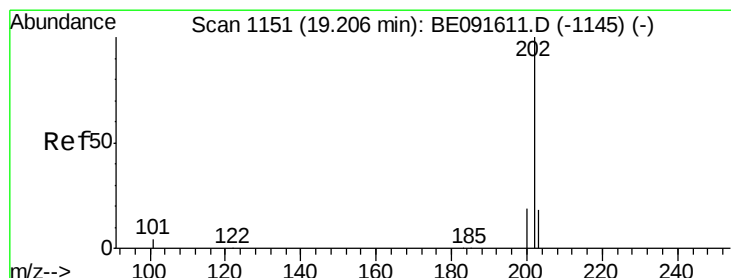
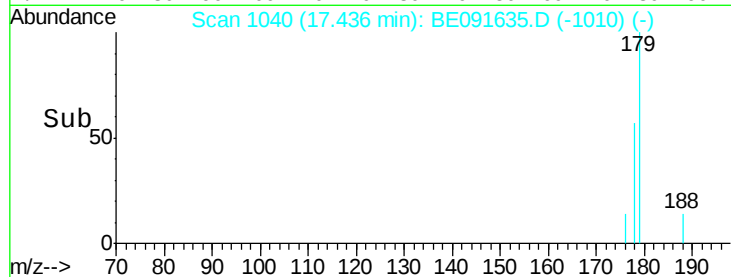
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#25

Fluoranthene

Concen: 22.08 ng

RT: 19.40 min Scan# 1160

Delta R.T. 0.19 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Tgt Ion:202 Resp: 16

Ion Ratio Lower Upper

202 100

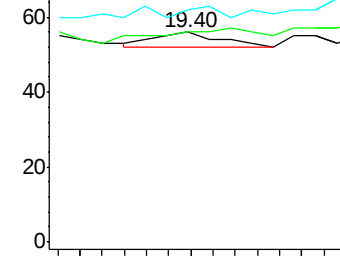
101 0.0 11.0 16.6#

203 0.0 13.9 20.9#

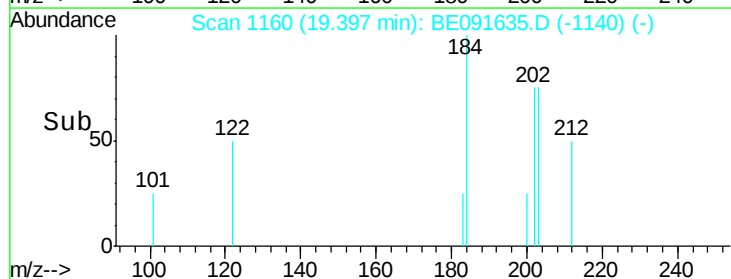
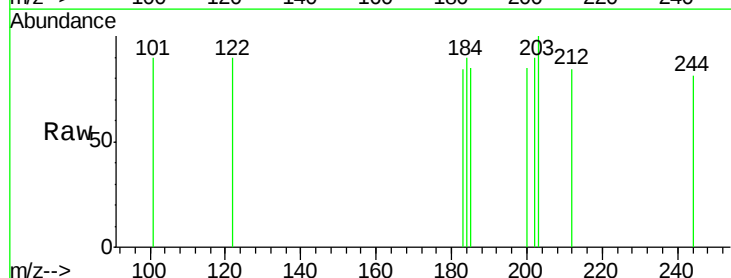
Abundance Ion 202.00 (201.70 to 202.70): E

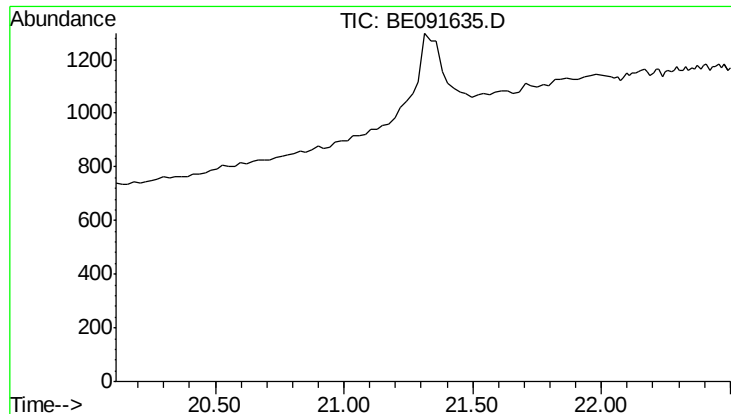
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->

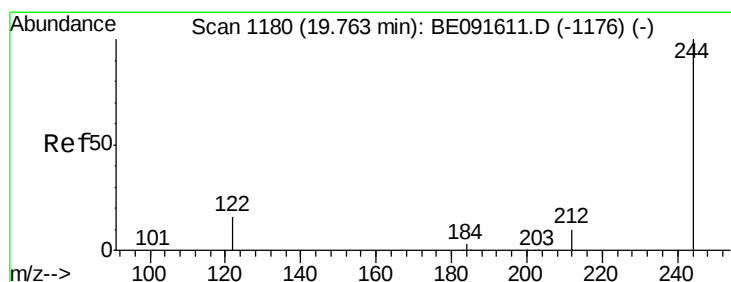
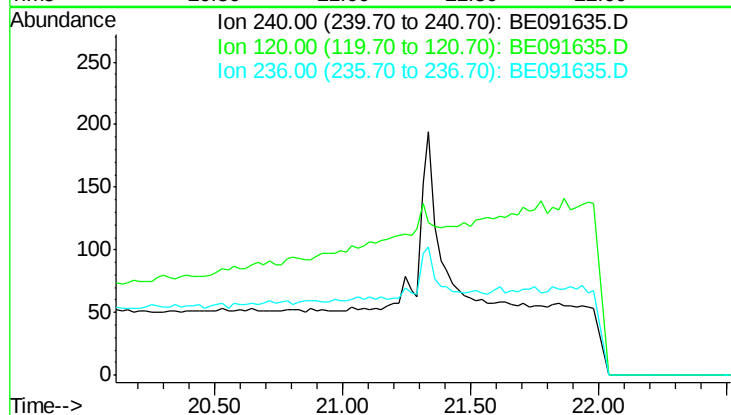




#26
 Chrysene-d12
 Concen: 0.00 ng
 Expected RT: 21.31 min
 Lab File: BE091635.D
 Acq: 11 Apr 2016 19:17

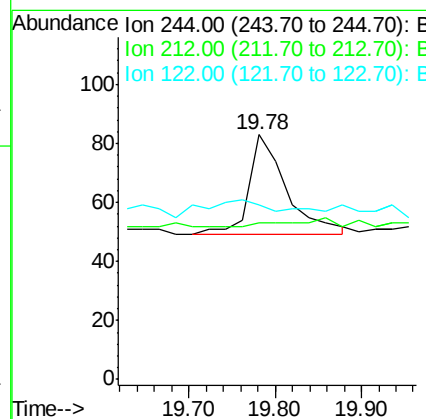
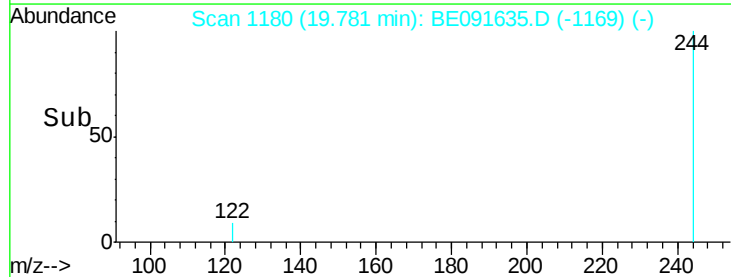
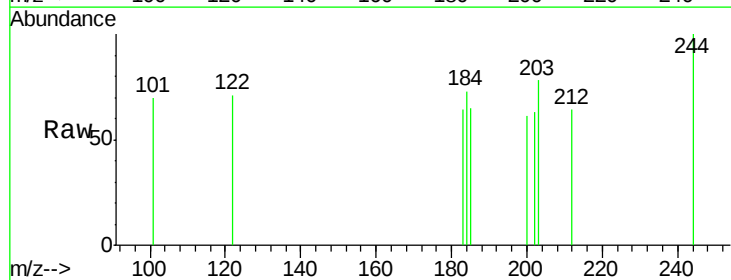
Instrument :
 BNA_E
 ClientSampleId :
 PB89409BSD

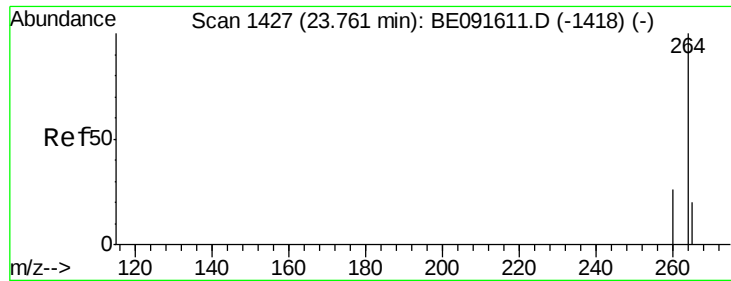
Tgt Ion: 240
 Sig Exp Ratio
 240 100
 120 13.7
 236 27.1



#29
 Terphenyl-d14
 Concen: 0.00 ng
 RT: 19.78 min Scan# 1180
 Delta R.T. 0.02 min
 Lab File: BE091635.D
 Acq: 11 Apr 2016 19:17

Tgt Ion: 244 Resp: 105
 Ion Ratio Lower Upper
 244 100
 212 63.9 6.9 10.3#
 122 71.1 11.0 16.4#





#35

Perylene-d12

Concen: 5.00 ng

RT: 23.77 min Scan# 1427

Delta R.T. 0.01 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Instrument :

BNA_E

ClientSampleId :

PB89409BSD

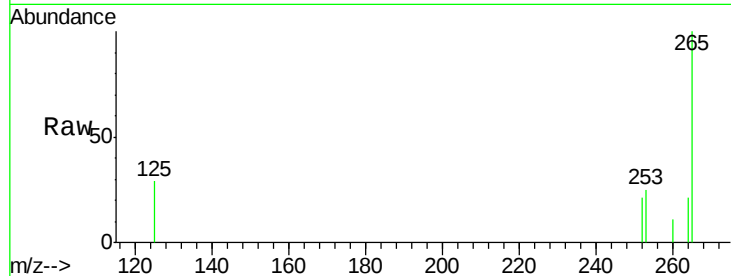
Tgt Ion: 264 Resp: 327

Ion Ratio Lower Upper

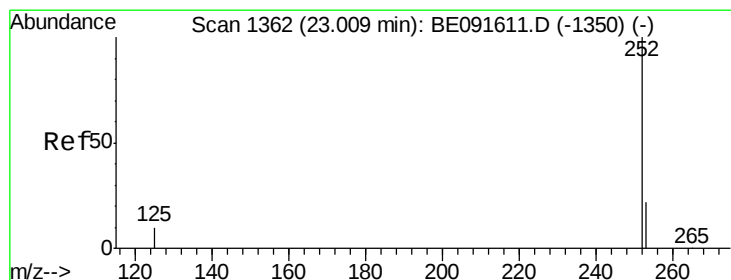
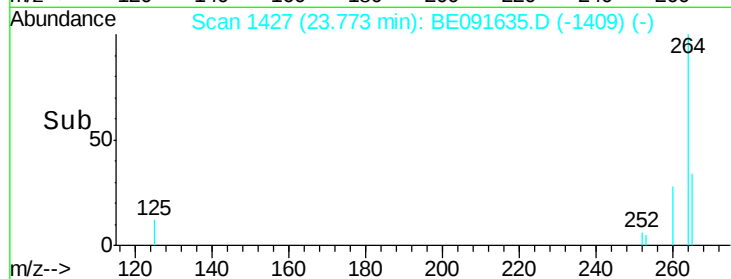
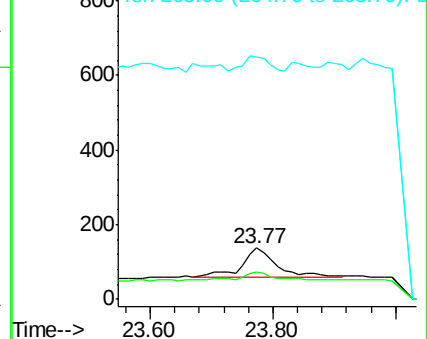
264 100

260 53.3 20.0 30.0#

265 475.2 17.5 26.3#



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#36

Benzo(b)fluoranthene

Concen: 3.96 ng

RT: 23.02 min Scan# 1362

Delta R.T. 0.01 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

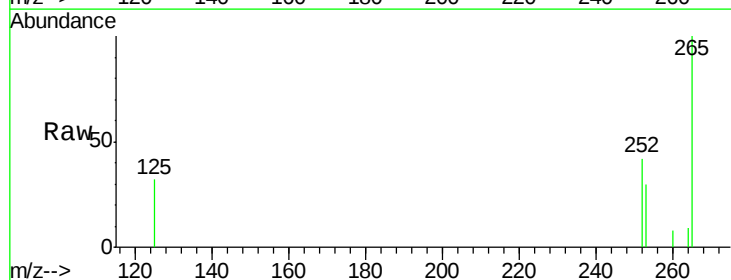
Tgt Ion: 252 Resp: 301

Ion Ratio Lower Upper

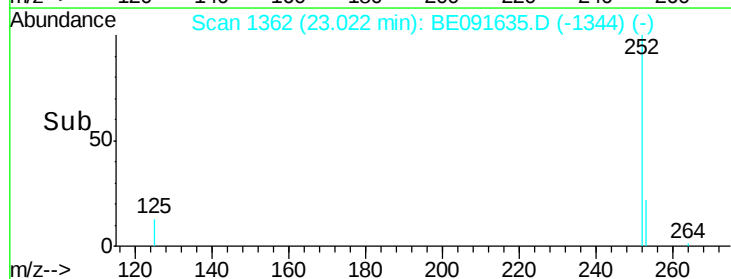
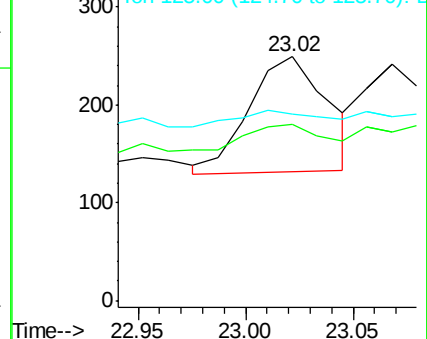
252 100

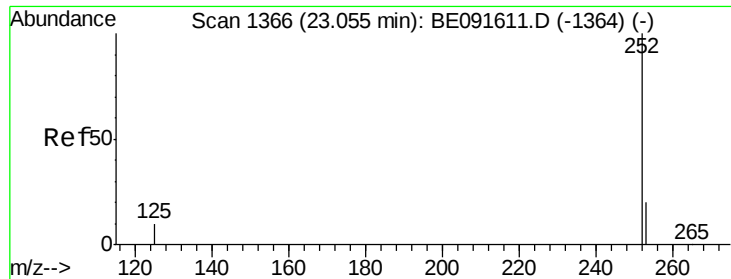
253 72.3 17.4 26.0#

125 76.7 10.2 15.2#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(k)fluoranthene

Concen: 4.79 ng

RT: 23.07 min Scan# 1366

Delta R.T. 0.01 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Instrument :

BNA_E

ClientSampleId :

PB89409BSD

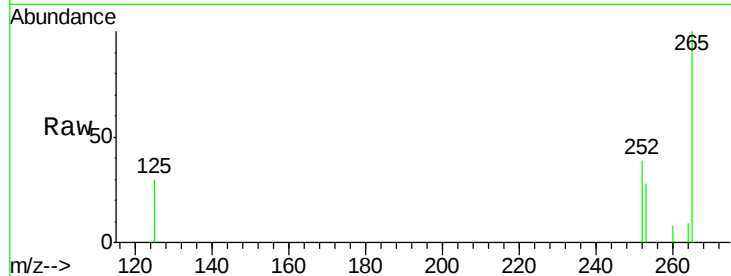
Tgt Ion: 252 Resp: 359

Ion Ratio Lower Upper

252 100

253 71.5 17.6 26.4#

125 77.7 9.9 14.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

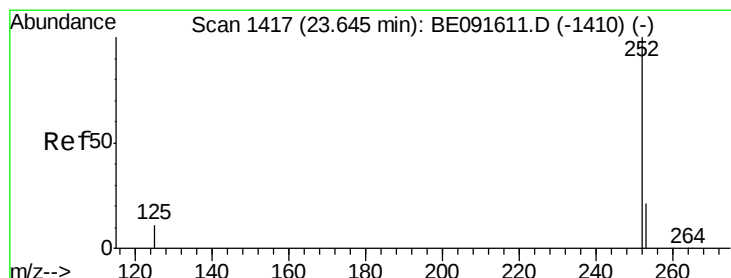
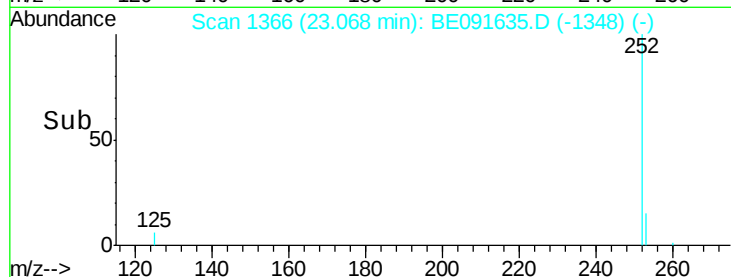
23.07

200

100

0

Time-->



#38

Benzo(a)pyrene

Concen: 4.31 ng

RT: 23.67 min Scan# 1418

Delta R.T. 0.02 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

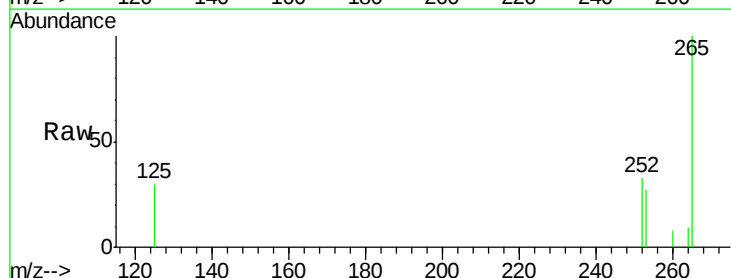
Tgt Ion: 252 Resp: 304

Ion Ratio Lower Upper

252 100

253 83.1 18.1 27.1#

125 91.3 11.0 16.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

23.67

200

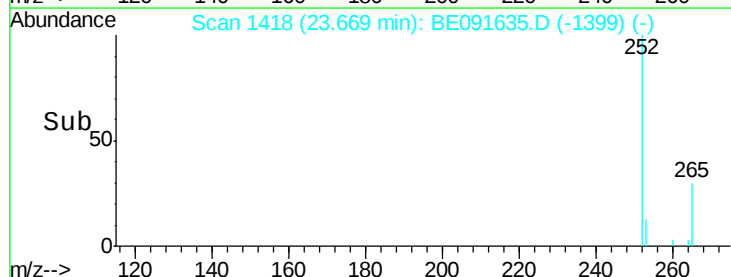
150

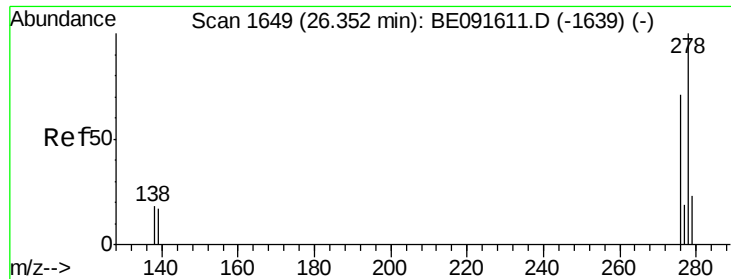
100

50

0

Time-->





#39

Dibenzo(a,h)anthracene

Concen: 9.99 ng

RT: 26.38 min Scan# 1650

Delta R.T. 0.02 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

Instrument :

BNA_E

ClientSampleId :

PB89409BSD

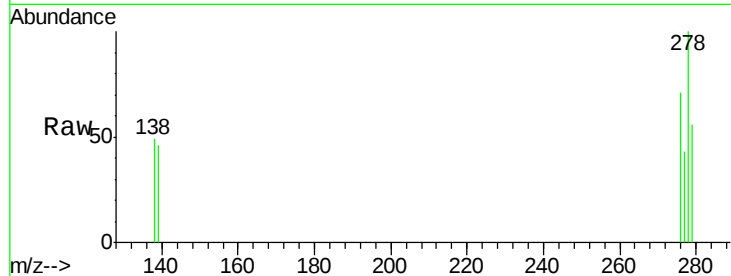
Tgt Ion: 278 Resp: 694

Ion Ratio Lower Upper

278 100

139 46.3 16.0 24.0#

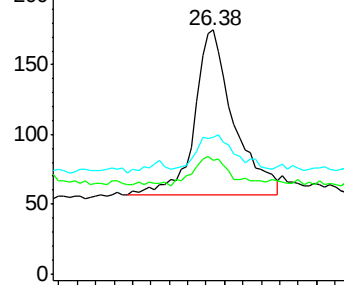
279 56.0 19.4 29.2#



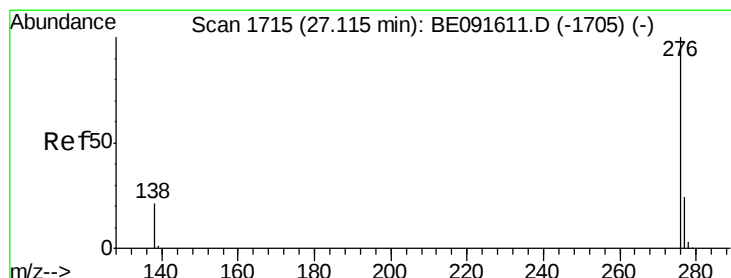
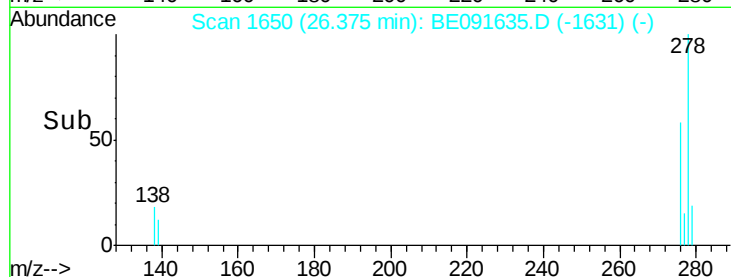
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#40

Benzo(g,h,i)perylene

Concen: 5.37 ng

RT: 27.12 min Scan# 1714

Delta R.T. 0.00 min

Lab File: BE091635.D

Acq: 11 Apr 2016 19:17

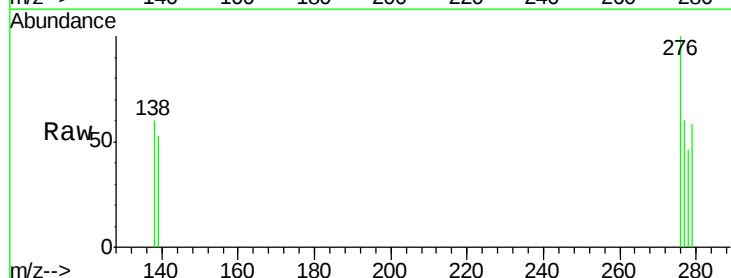
Tgt Ion: 276 Resp: 384

Ion Ratio Lower Upper

276 100

277 60.0 18.6 28.0#

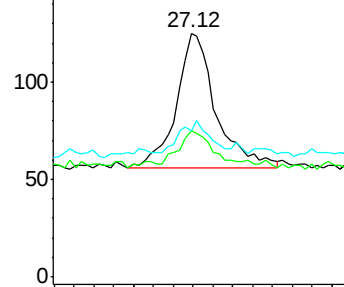
138 60.0 20.4 30.6#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Time-->

