

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089459.D
 Acq On : 31 Jan 2015 6:24
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 00:32:20 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	62803	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	259717	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	140675	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	230339	5.00	ng	0.00
16) Chrysene-d12	23.84	240	183060	5.00	ng	0.00
22) Perylene-d12	25.55	264	159020	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	147657	8.59	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	258887	6.99	ng	0.00
18) Terphenyl-d14	22.48	244	234315	8.55	ng	0.00

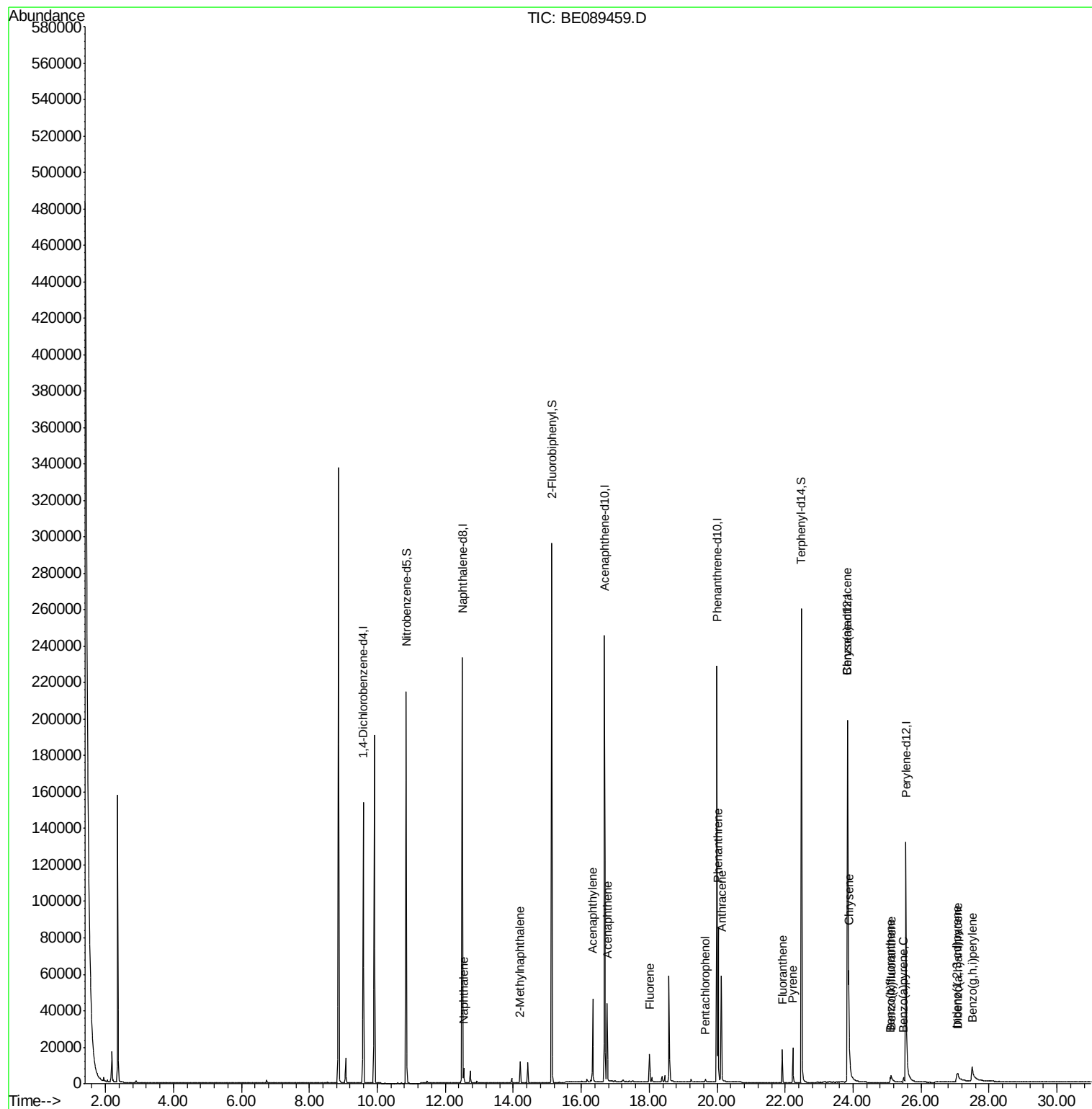
Target Compounds					Qvalue	
4) Naphthalene	12.54	128	8902	0.15	ng	100
5) 2-Methylnaphthalene	14.20	142	7234	0.20	ng	95
8) Acenaphthylene	16.34	152	56275	0.22	ng	99
9) Acenaphthene	16.76	154	9259	0.24	ng	98
10) Fluorene	18.02	166	11220	0.27	ng	98
12) Pentachlorophenol	19.66	266	1074	0.85	ng	91
13) Phenanthrene	20.03	178	73678	0.33	ng	99
14) Anthracene	20.12	178	61754	0.30	ng	100
15) Fluoranthene	21.91	202	14158	0.29	ng	98
17) Pyrene	22.22	202	15123	0.31	ng	100
19) Benzo(a)anthracene	23.83	228	37666	0.24	ng	97
20) Chrysene	23.87	228	61165	0.35	ng	96
21) Indeno(1,2,3-cd)pyrene	27.05	276	15975	0.11	ng	# 81
23) Benzo(b)fluoranthene	25.09	252	3137	0.29	ng	# 90
24) Benzo(k)fluoranthene	25.13	252	7456	0.18	ng	# 93
25) Benzo(a)pyrene	25.48	252	4030	0.26	ng	# 93
26) Dibenzo(a,h)anthracene	27.08	278	2824	0.22	ng	# 83
27) Benzo(g,h,i)perylene	27.51	276	26836	0.21	ng	95

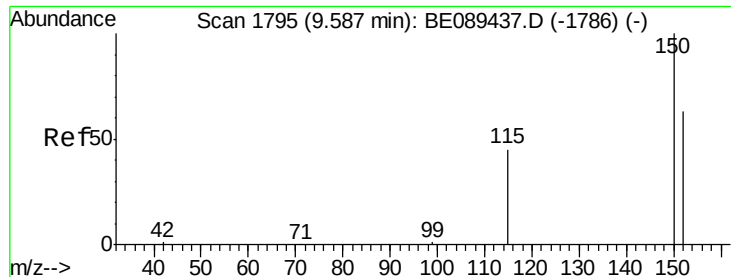
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :

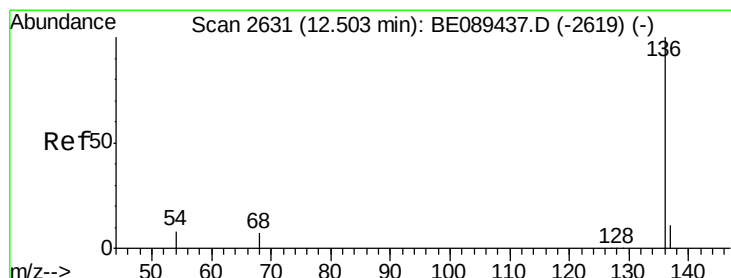
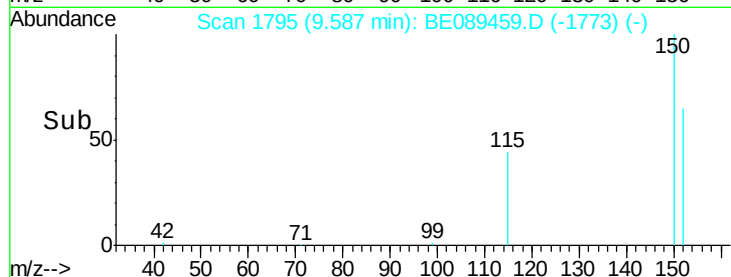
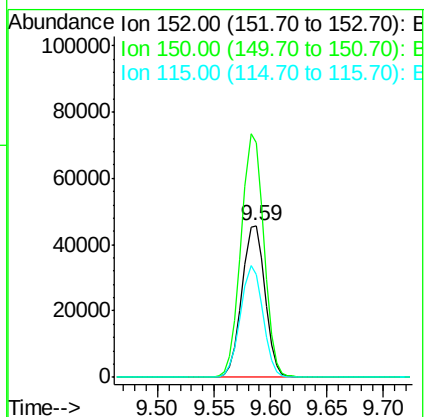
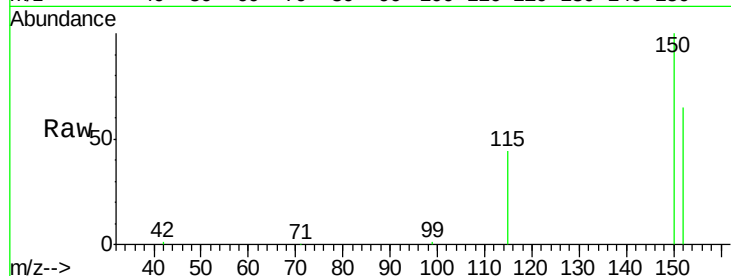
Tgt Ion:152 Resp: 62803

Ion Ratio Lower Upper

152 100

150 154.1 127.2 190.8

115 68.0 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

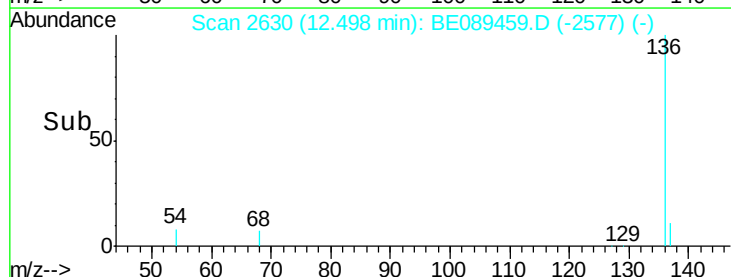
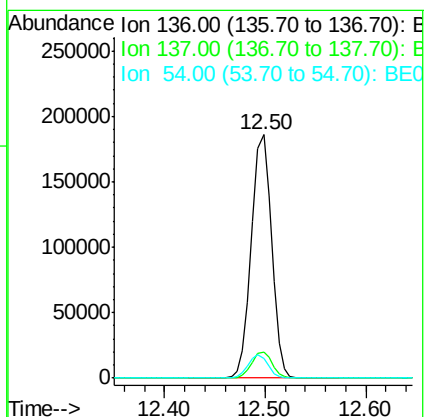
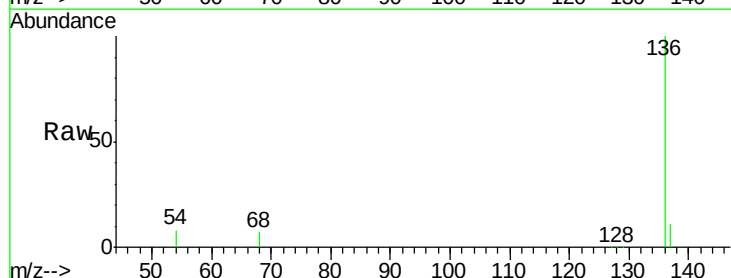
Tgt Ion:136 Resp: 259717

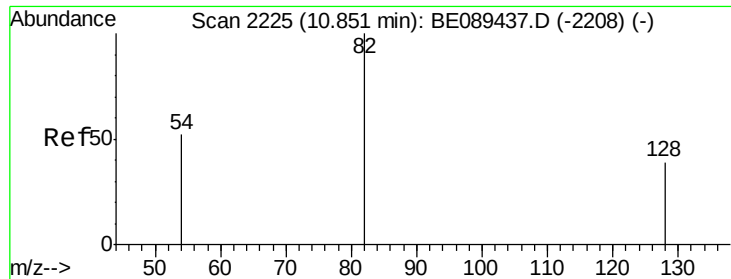
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 8.1 6.6 10.0

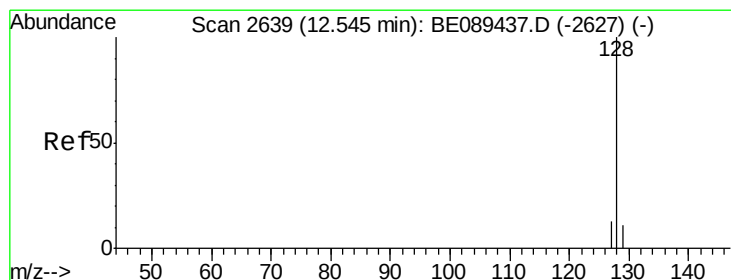
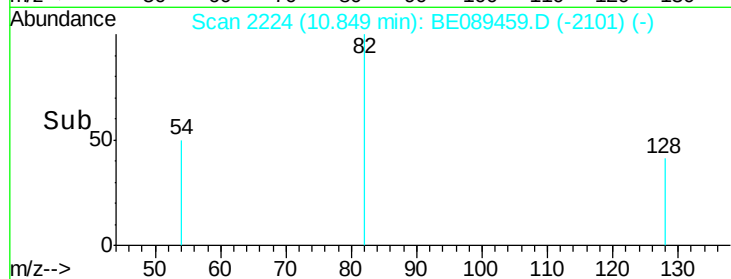
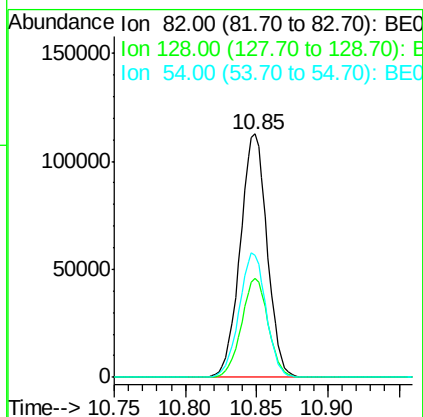
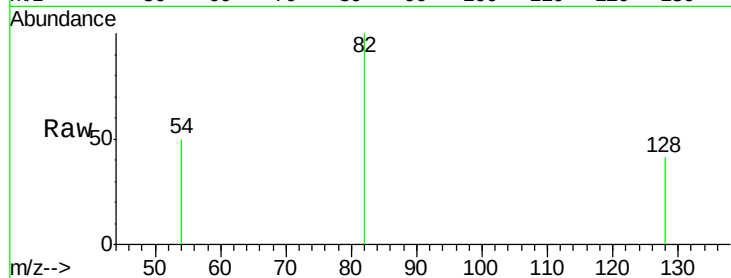




#3
 Nitrobenzene-d5
 Concen: 8.59 ng
 RT: 10.85 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: BE089459.D
 Acq: 31 Jan 2015 6:24

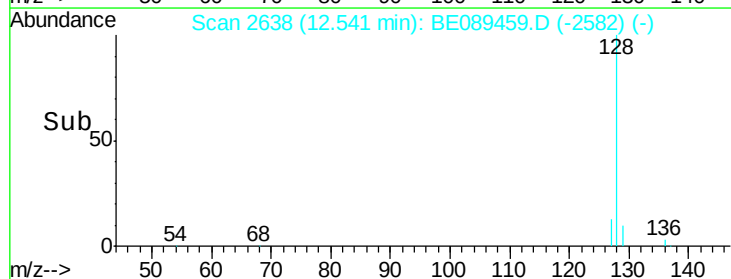
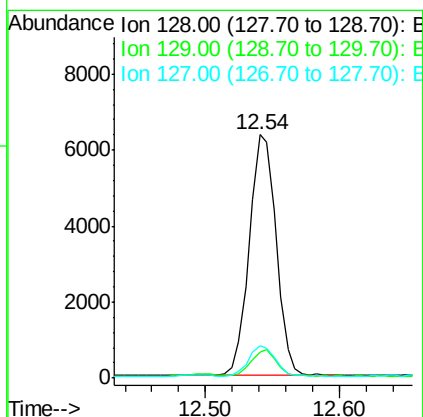
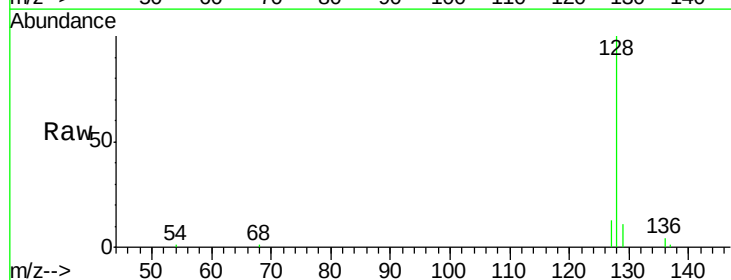
Instrument :
 BNA_E
 ClientSampleId :

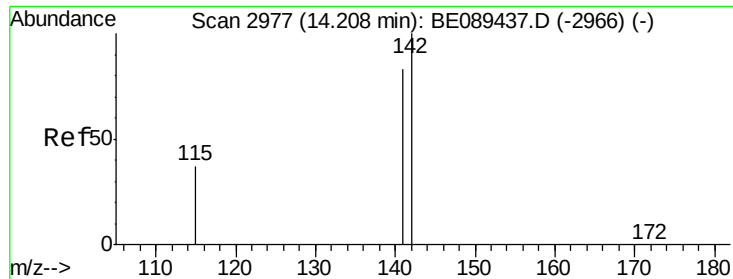
Tgt Ion: 82 Resp: 147657
 Ion Ratio Lower Upper
 82 100
 128 40.8 31.2 46.8
 54 50.3 41.9 62.9



#4
 Naphthalene
 Concen: 0.15 ng
 RT: 12.54 min Scan# 2638
 Delta R.T. -0.00 min
 Lab File: BE089459.D
 Acq: 31 Jan 2015 6:24

Tgt Ion: 128 Resp: 8902
 Ion Ratio Lower Upper
 128 100
 129 10.7 8.8 13.2
 127 13.2 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.20 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089459.D

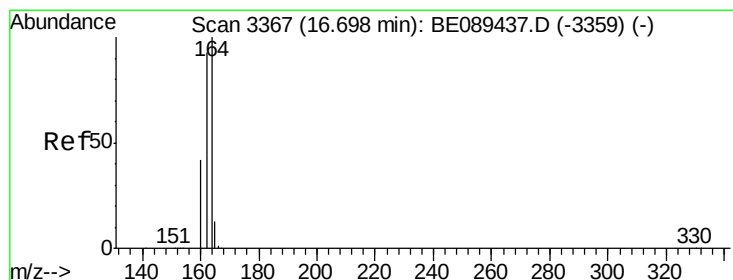
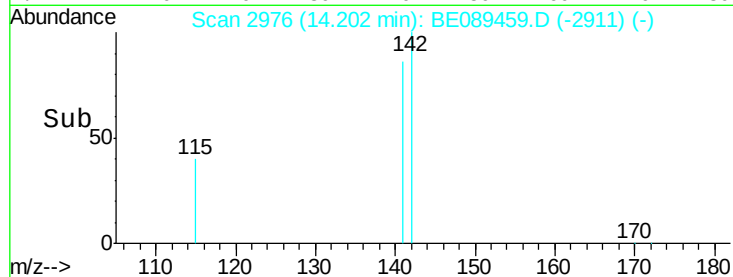
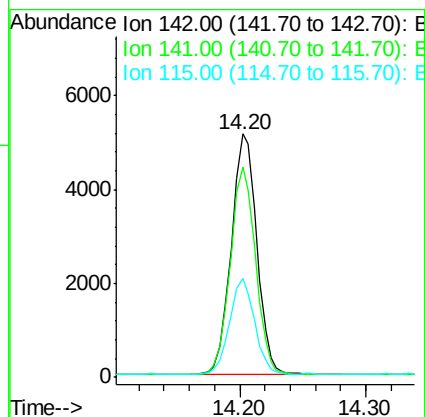
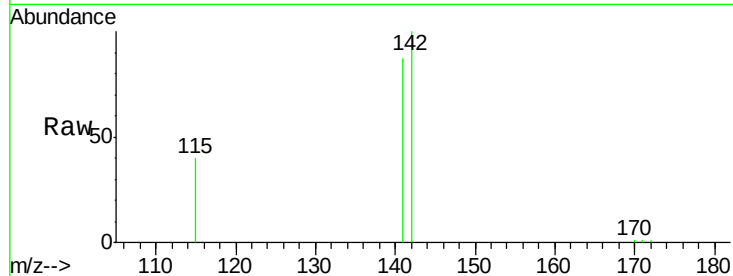
Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	7234
Ion Ratio	Lower	Upper	
142	100		
141	86.5	66.1	99.1
115	40.5	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

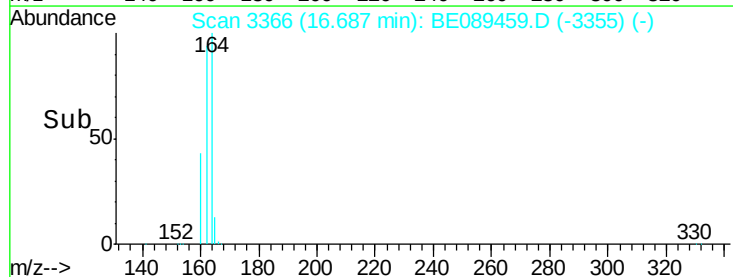
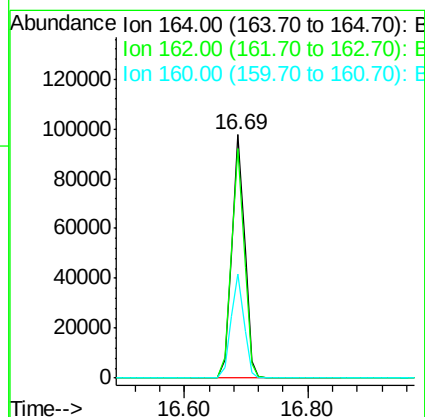
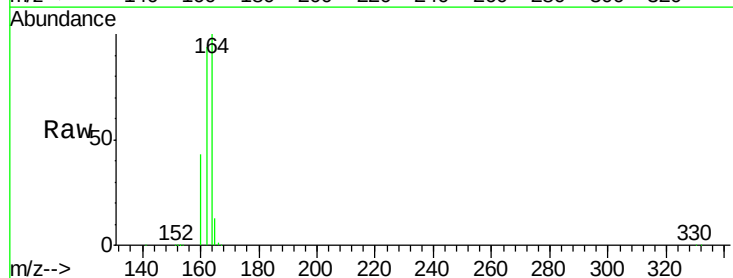
RT: 16.69 min Scan# 3366

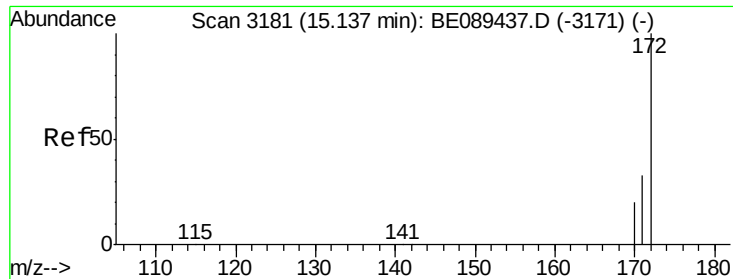
Delta R.T. -0.01 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Tgt Ion:	164	Resp:	140675
Ion Ratio	Lower	Upper	
164	100		
162	94.4	74.7	112.1
160	42.6	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 6.99 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :

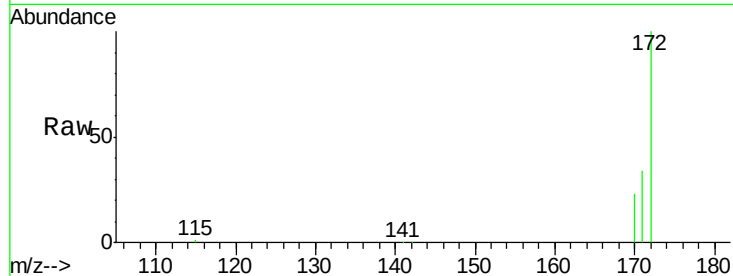
Tgt Ion:172 Resp: 258887

Ion Ratio Lower Upper

172 100

171 34.4 26.2 39.4

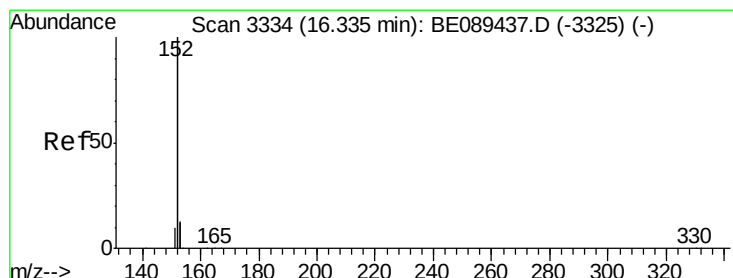
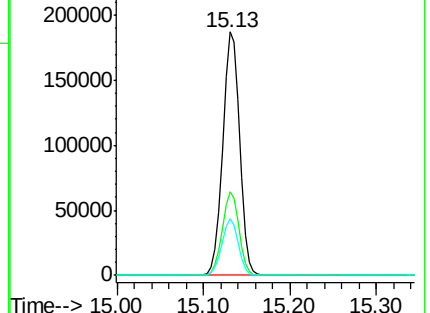
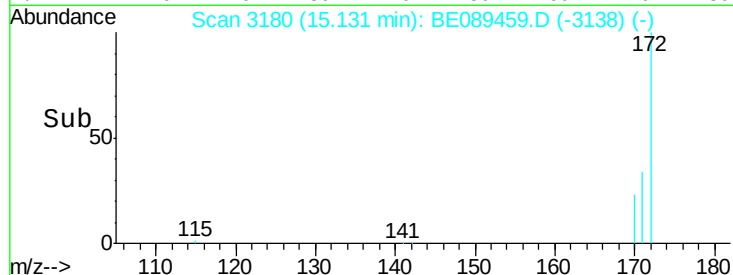
170 23.1 16.5 24.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.22 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

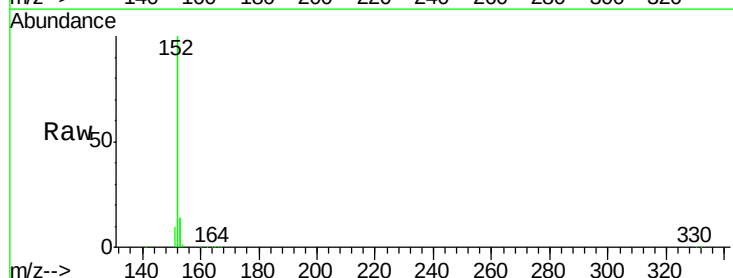
Tgt Ion:152 Resp: 56275

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

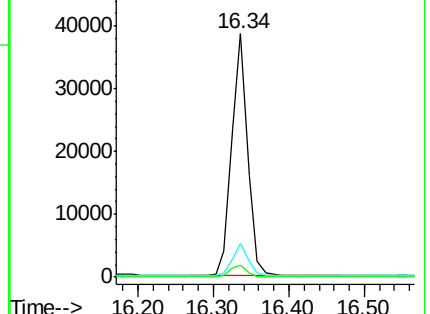
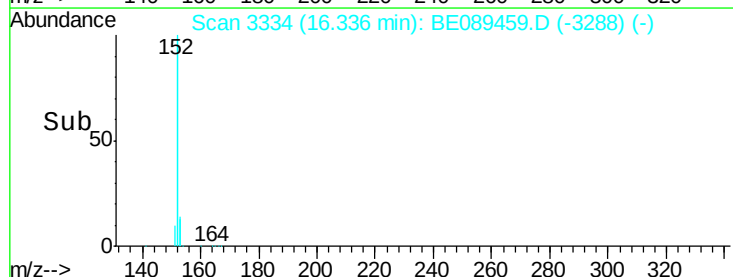
153 13.2 10.3 15.5

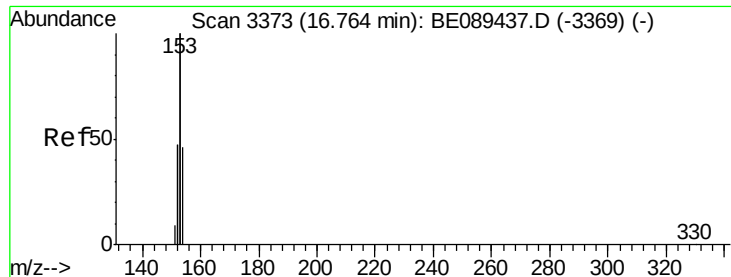


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.24 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :

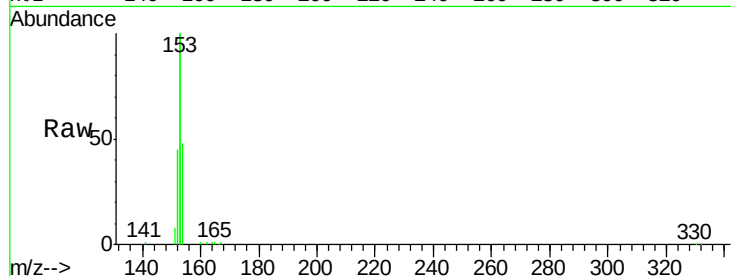
Tgt Ion:154 Resp: 9259

Ion Ratio Lower Upper

154 100

153 430.8 342.3 513.5

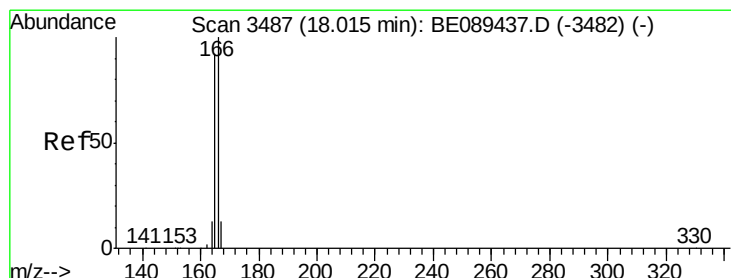
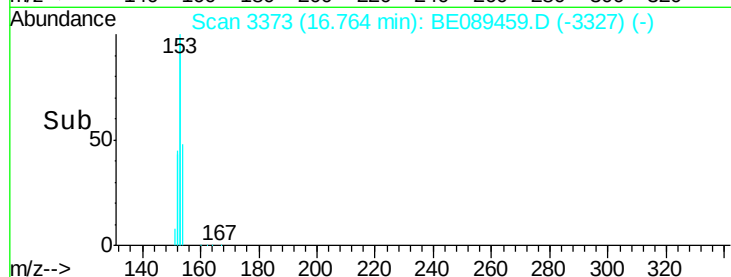
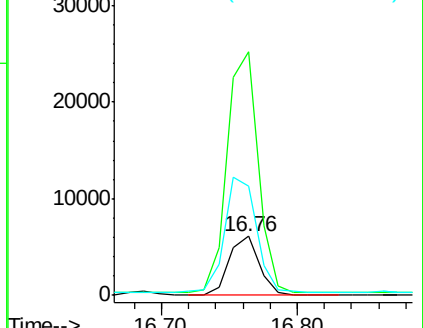
152 213.6 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.27 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

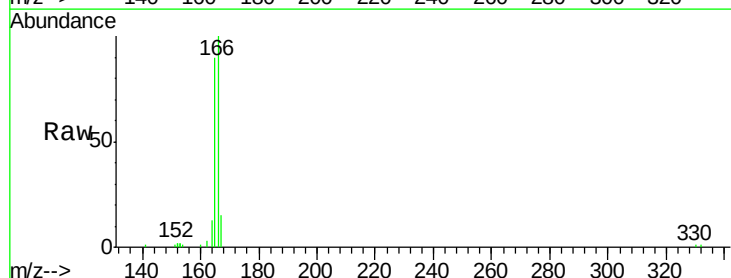
Tgt Ion:166 Resp: 11220

Ion Ratio Lower Upper

166 100

165 91.3 74.4 111.6

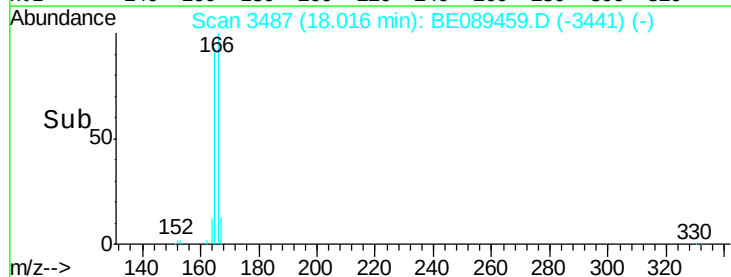
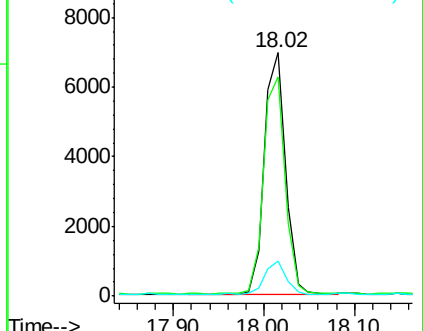
167 13.5 10.6 15.8

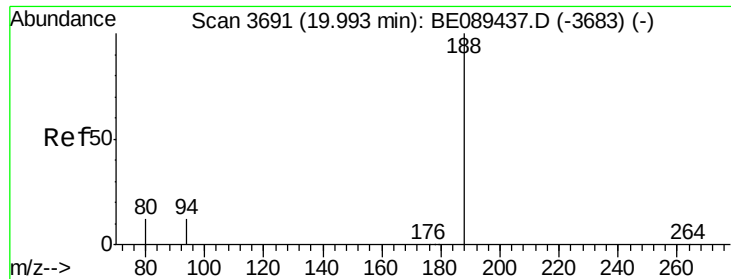


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

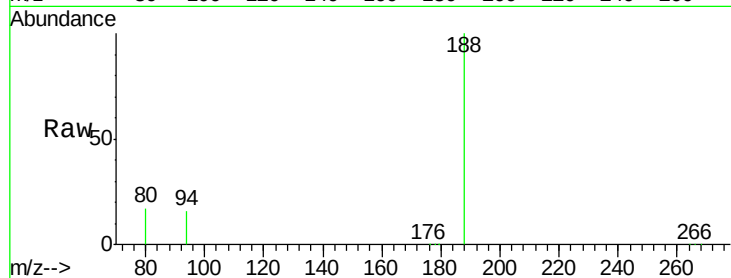




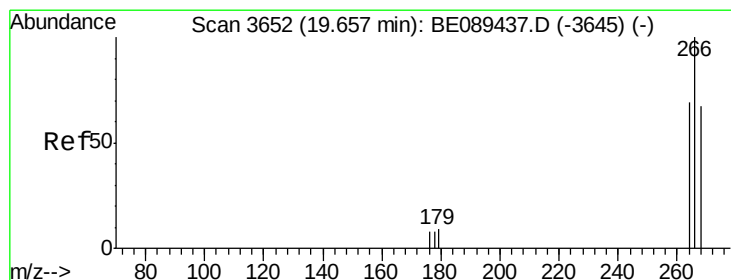
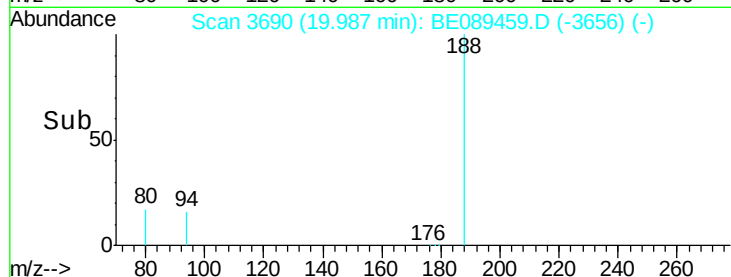
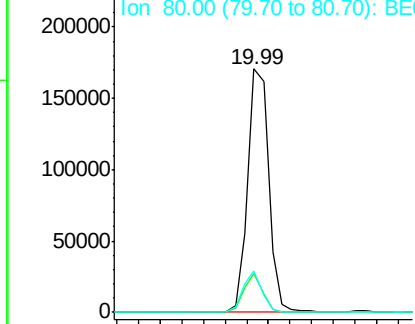
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089459.D
Acq: 31 Jan 2015 6:24

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 230339
Ion Ratio Lower Upper
188 100
94 16.2 9.4 14.0#
80 17.2 9.3 13.9#

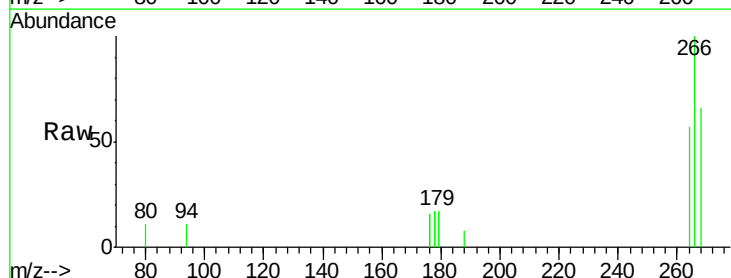


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): E
Ion 80.00 (79.70 to 80.70): E

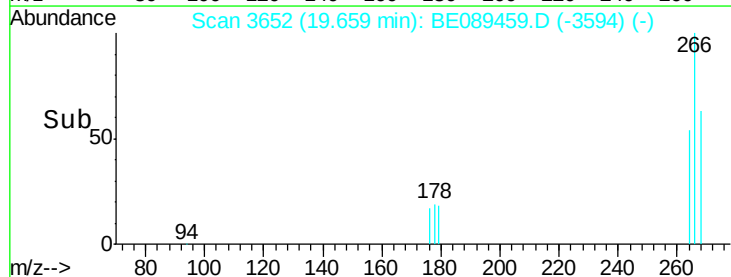
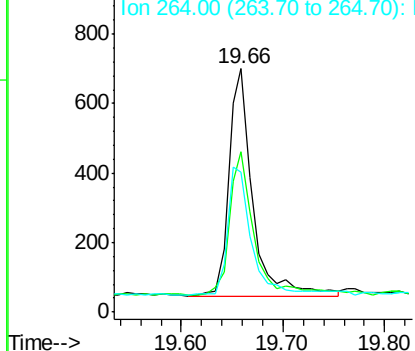


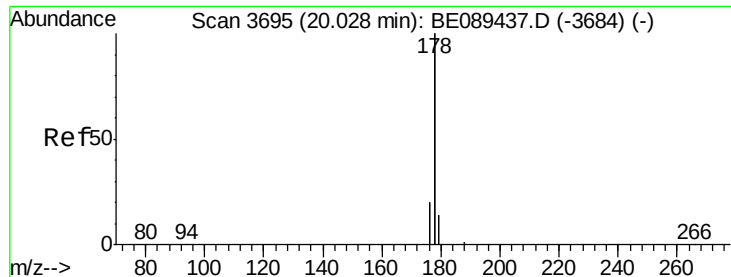
#12
Pentachlorophenol
Concen: 0.85 ng
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089459.D
Acq: 31 Jan 2015 6:24

Tgt Ion:266 Resp: 1074
Ion Ratio Lower Upper
266 100
268 65.6 54.2 81.4
264 57.5 56.2 84.2



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





#13

Phenanthrene

Concen: 0.33 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :

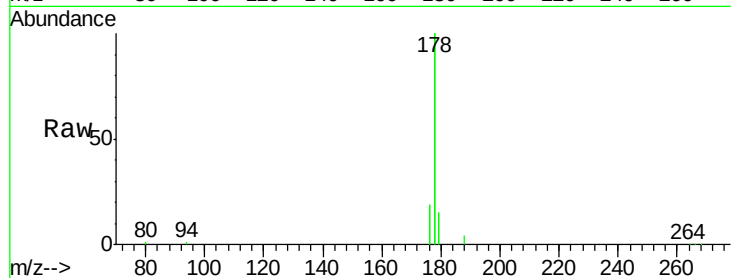
Tgt Ion:178 Resp: 73678

Ion Ratio Lower Upper

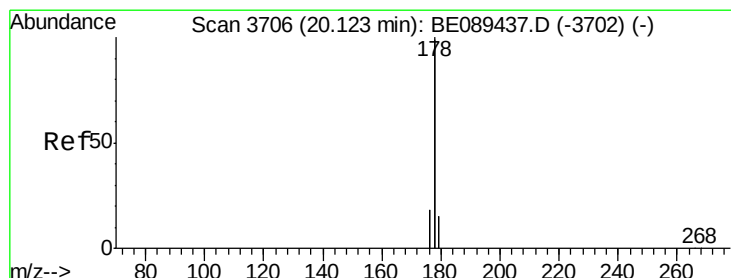
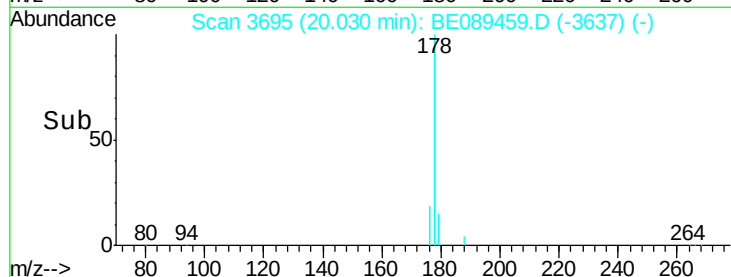
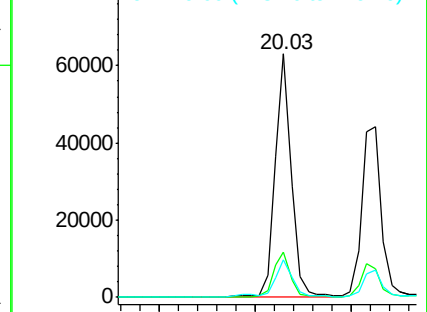
178 100

176 18.9 15.1 22.7

179 16.1 12.3 18.5



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



#14

Anthracene

Concen: 0.30 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

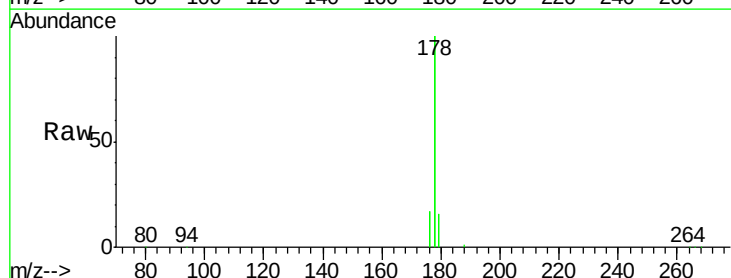
Tgt Ion:178 Resp: 61754

Ion Ratio Lower Upper

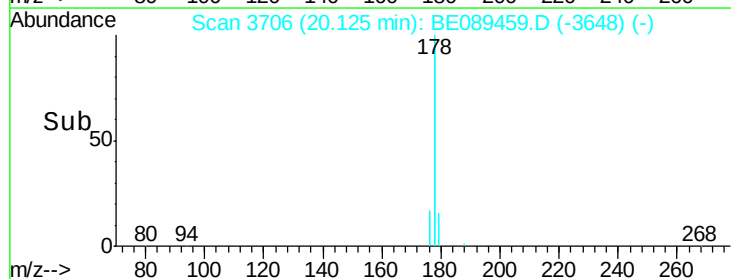
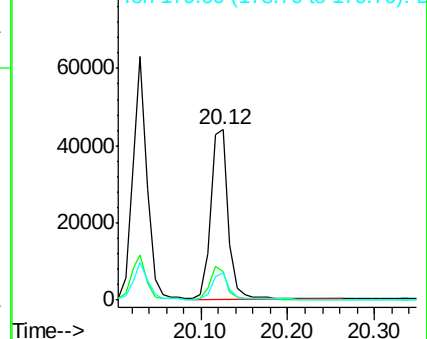
178 100

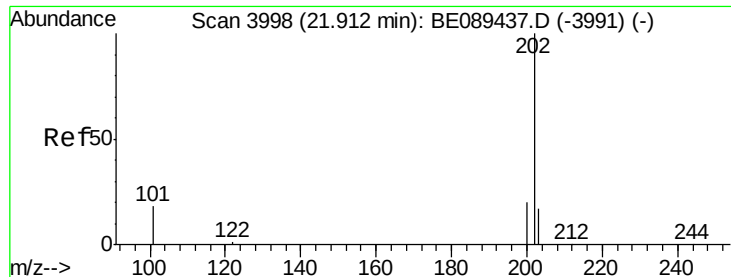
176 18.3 14.6 22.0

179 14.8 12.2 18.2



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





#15

Fluoranthene

Concen: 0.29 ng

RT: 21.91 min Scan# 3997

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :

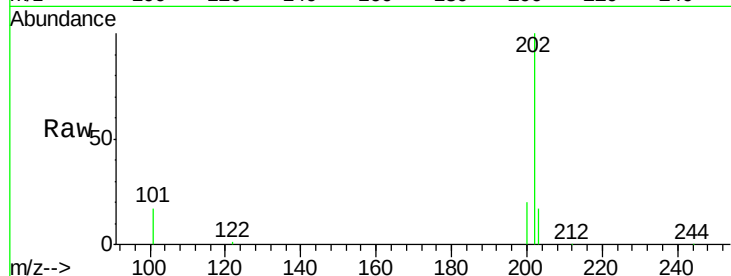
Tgt Ion:202 Resp: 14158

Ion Ratio Lower Upper

202 100

101 15.8 13.6 20.4

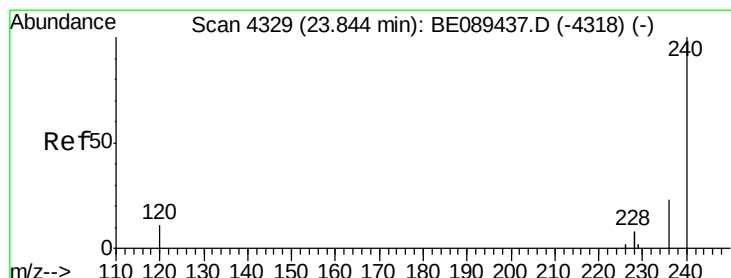
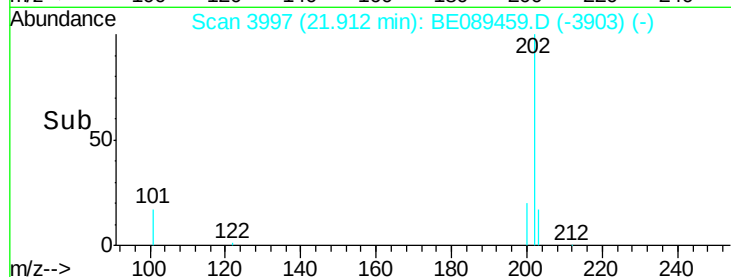
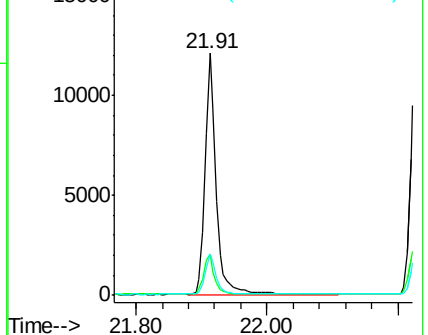
203 16.8 13.8 20.6



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



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.84 min Scan# 4328

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

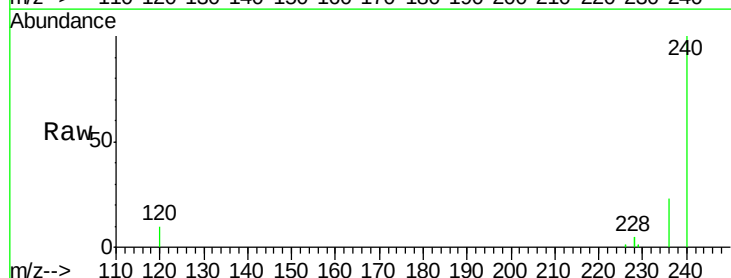
Tgt Ion:240 Resp: 183060

Ion Ratio Lower Upper

240 100

120 9.7 8.6 13.0

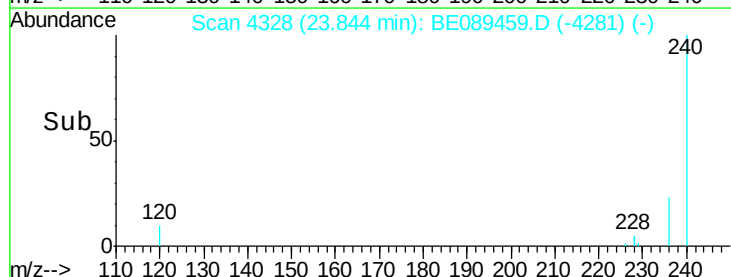
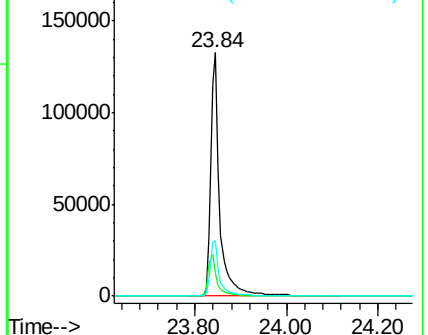
236 22.8 18.7 28.1

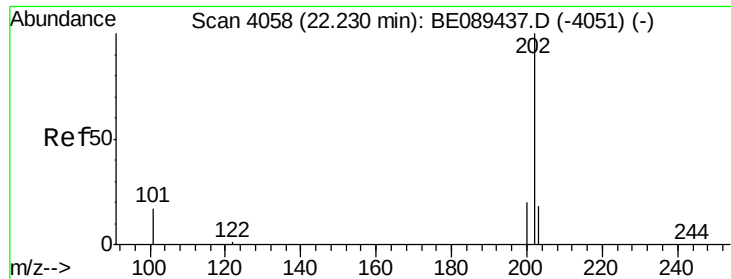


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

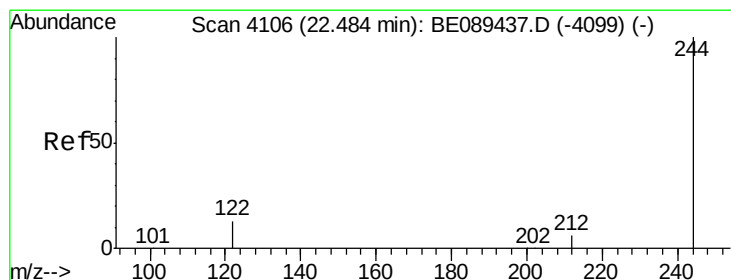
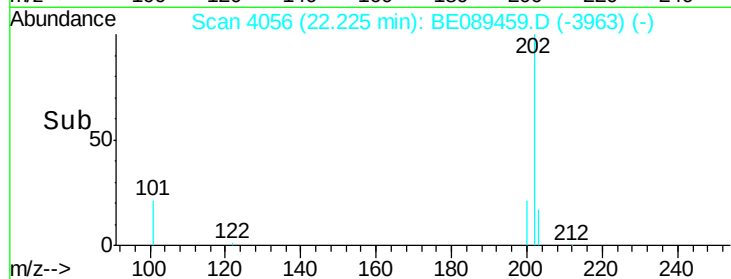
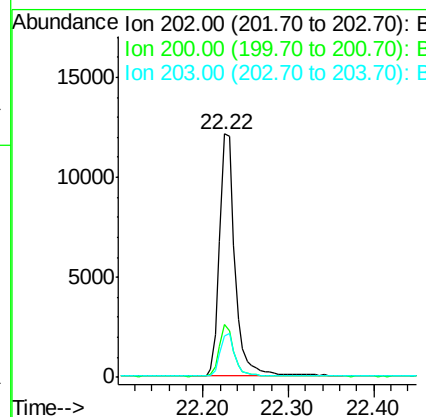
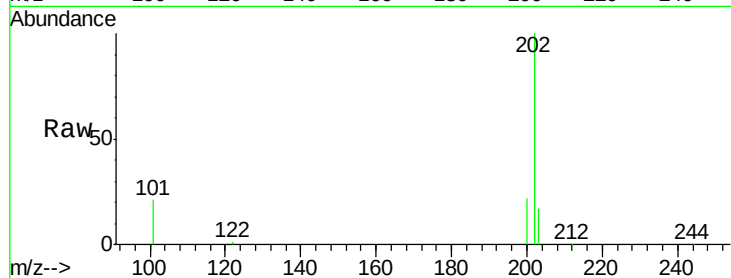




#17
 Pyrene
 Concen: 0.31 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089459.D
 Acq: 31 Jan 2015 6:24

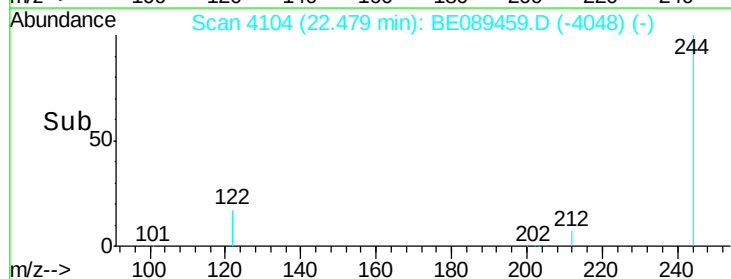
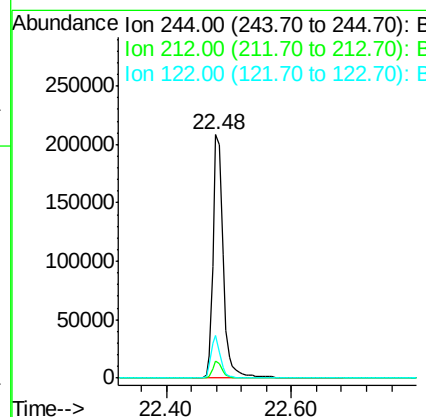
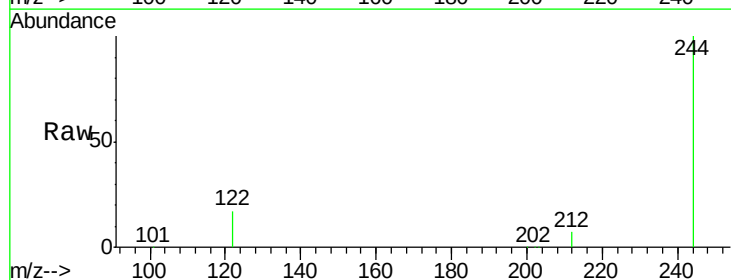
Instrument :
 BNA_E
 ClientSampleId :

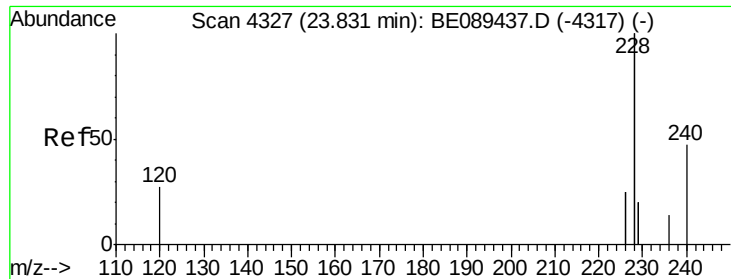
Tgt Ion: 202 Resp: 15123
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.4
 203 17.4 13.8 20.8



#18
 Terphenyl-d14
 Concen: 8.55 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089459.D
 Acq: 31 Jan 2015 6:24

Tgt Ion: 244 Resp: 234315
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.0 7.6
 122 17.4 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.24 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

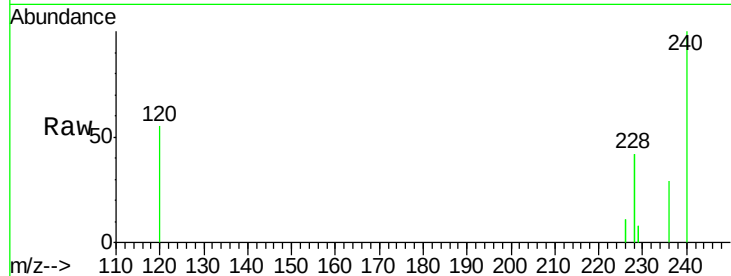
Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :



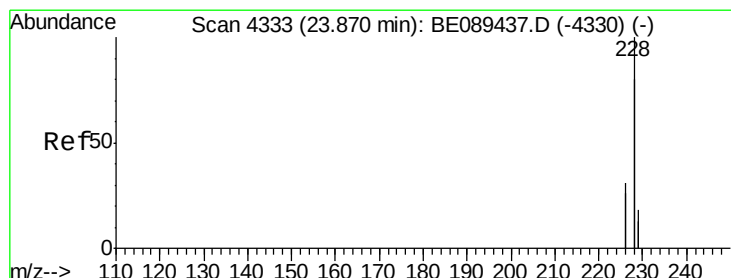
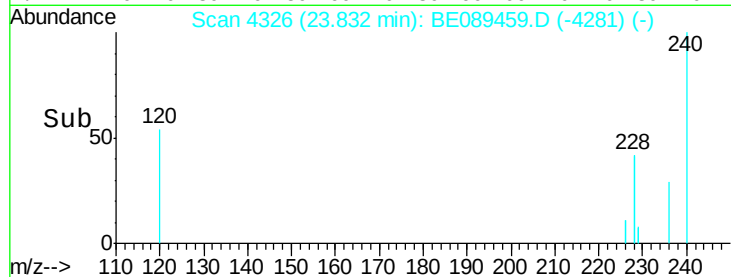
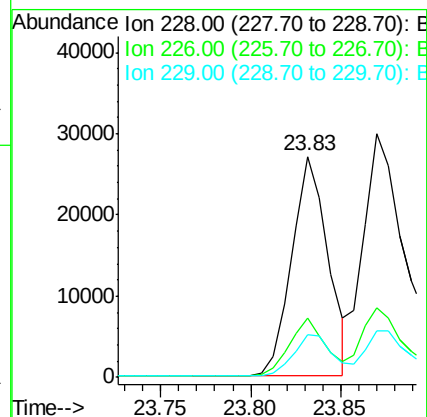
Tgt Ion:228 Resp: 37666

Ion Ratio Lower Upper

228 100

226 27.1 20.0 30.0

229 19.1 16.0 24.0



#20

Chrysene

Concen: 0.35 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

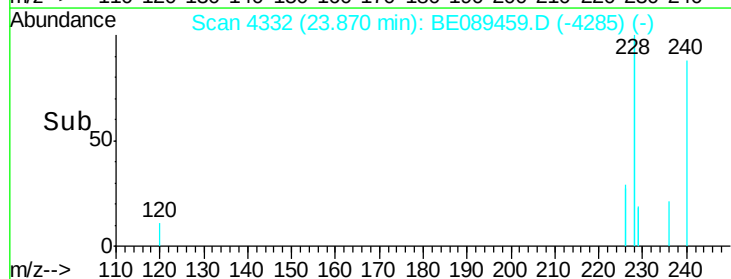
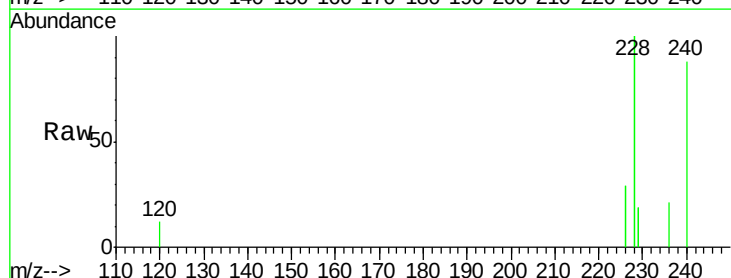
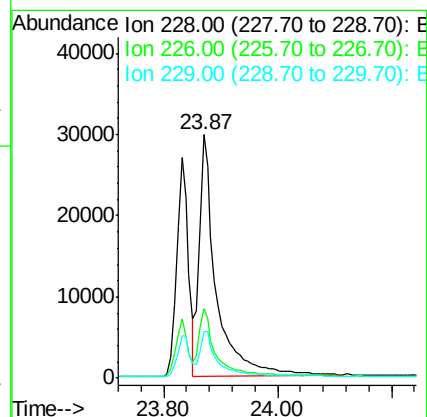
Tgt Ion:228 Resp: 61165

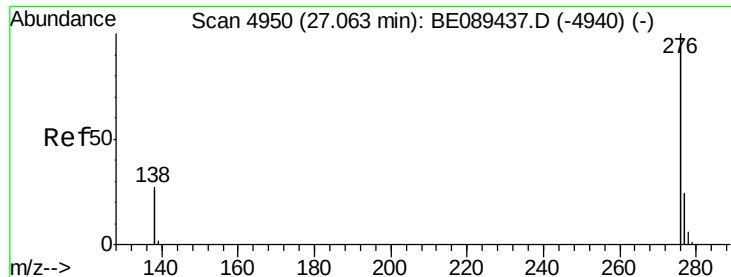
Ion Ratio Lower Upper

228 100

226 28.8 24.5 36.7

229 19.4 14.1 21.1





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.11 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

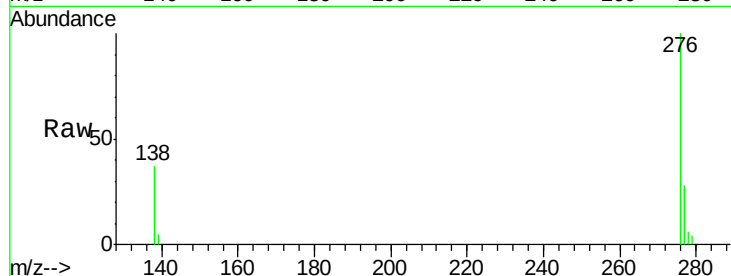
Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

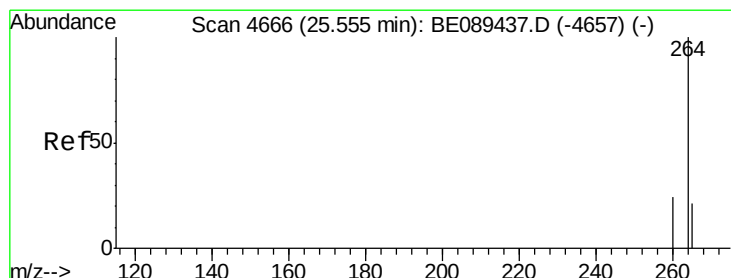
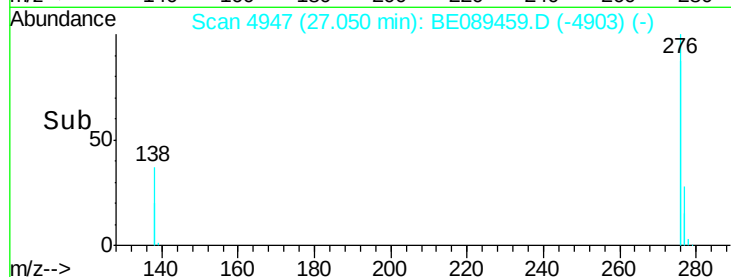
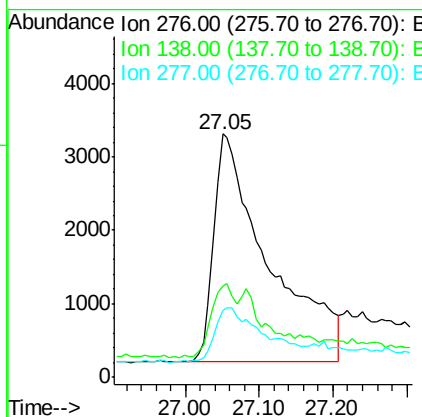
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	15975
Ion Ratio	Lower	Upper	
276	100		
138	14.3	25.4	38.0#
277	22.8	19.8	29.6



#22

Perylene-d12

Concen: 5.00 ng

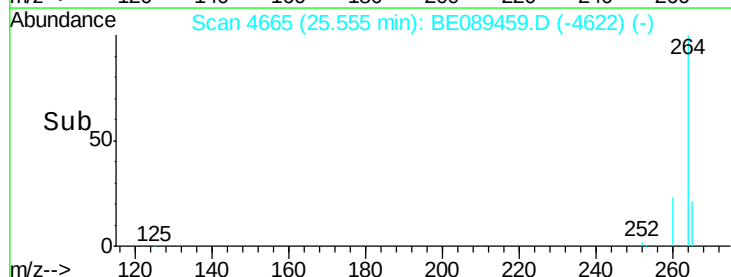
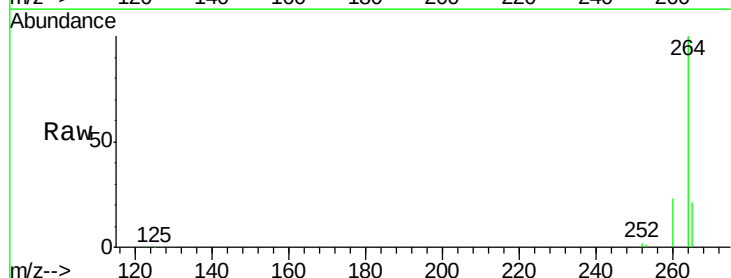
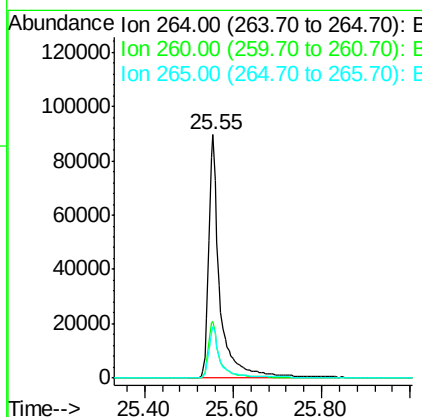
RT: 25.55 min Scan# 4665

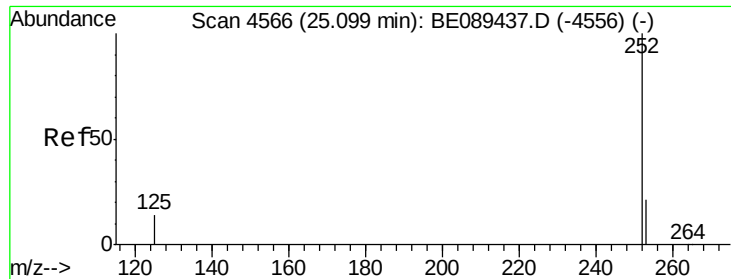
Delta R.T. -0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Tgt Ion:	264	Resp:	159020
Ion Ratio	Lower	Upper	
264	100		
260	23.4	19.4	29.0
265	21.4	17.0	25.6





#23

Benzo(b)fluoranthene

Concen: 0.29 ng

RT: 25.09 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

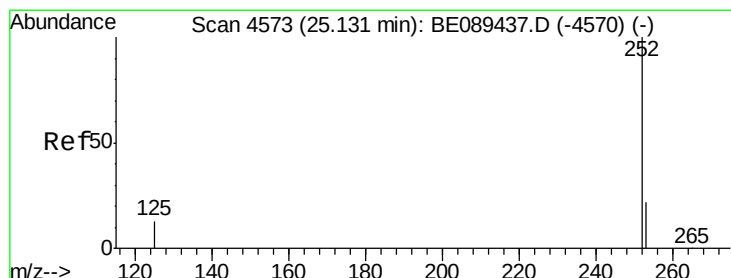
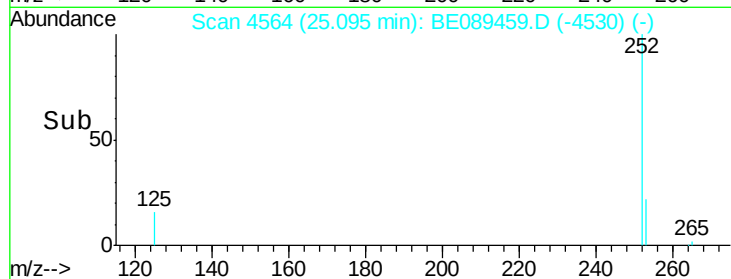
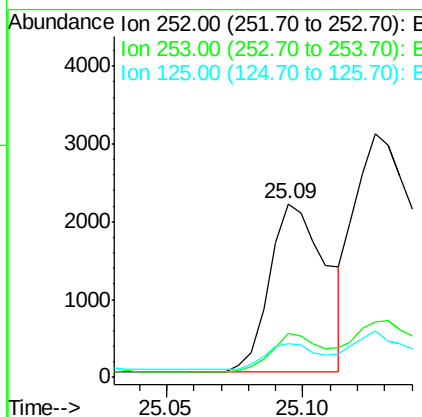
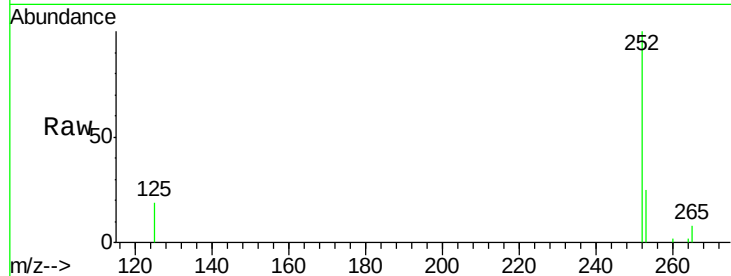
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:252 Resp: 3137

Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.0	25.6
125	19.4	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.18 ng

RT: 25.13 min Scan# 4571

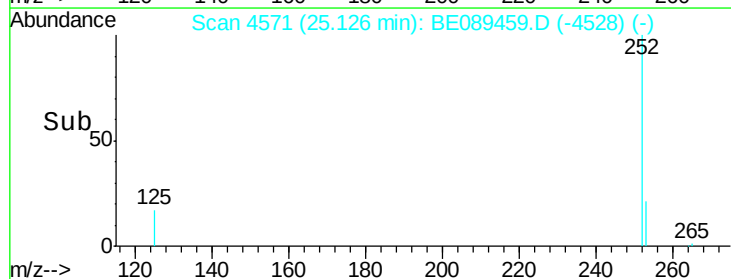
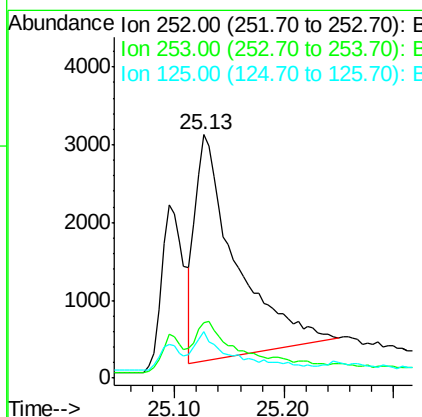
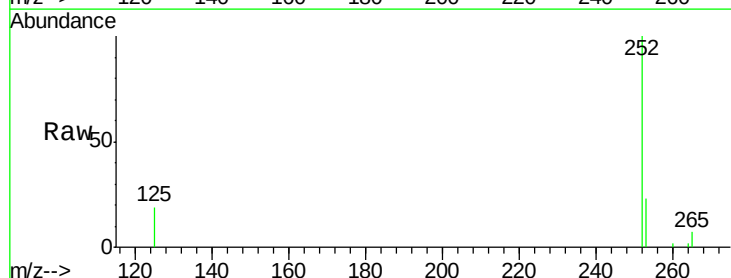
Delta R.T. -0.00 min

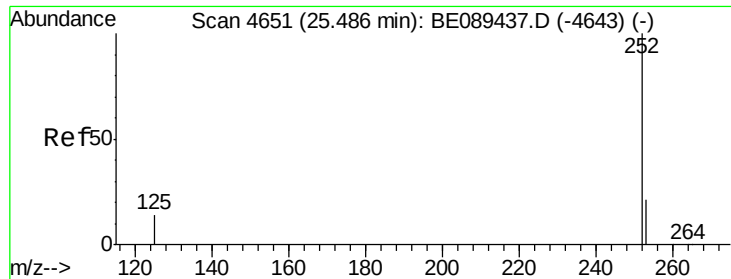
Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Tgt Ion:252 Resp: 7456

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	19.3	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.00 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :

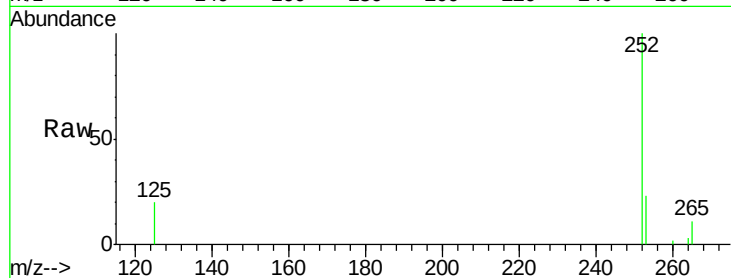
Tgt Ion:252 Resp: 4030

Ion Ratio Lower Upper

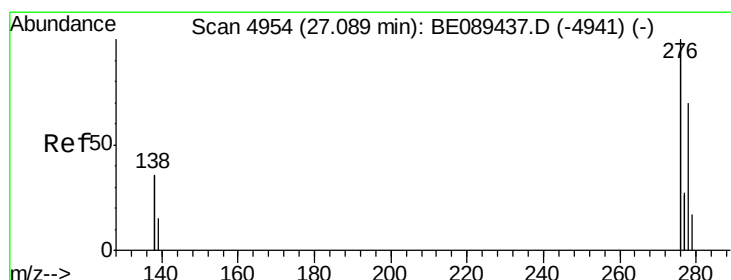
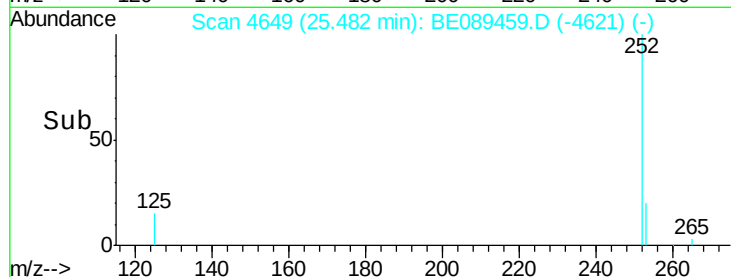
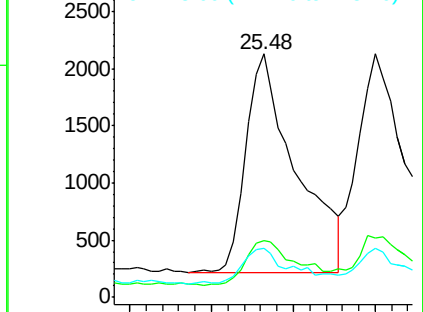
252 100

253 23.2 17.3 25.9

125 20.0 12.0 18.0#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.22 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

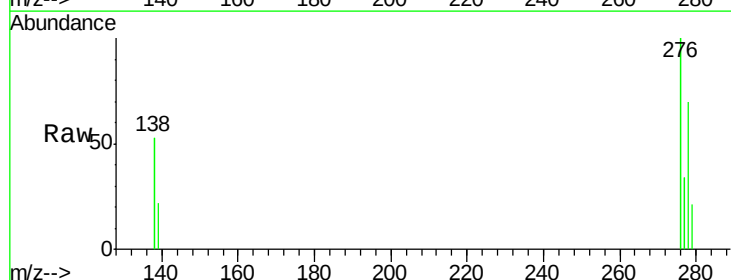
Tgt Ion:278 Resp: 2824

Ion Ratio Lower Upper

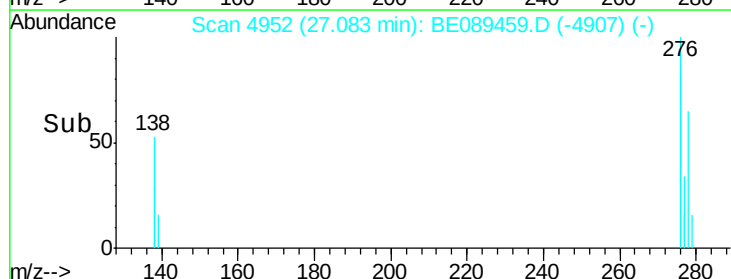
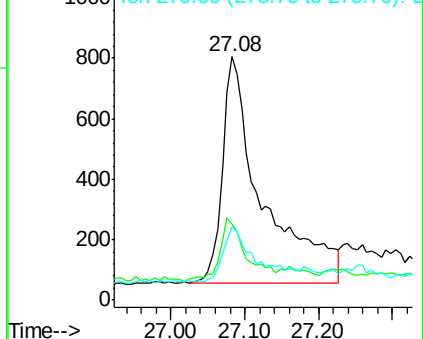
278 100

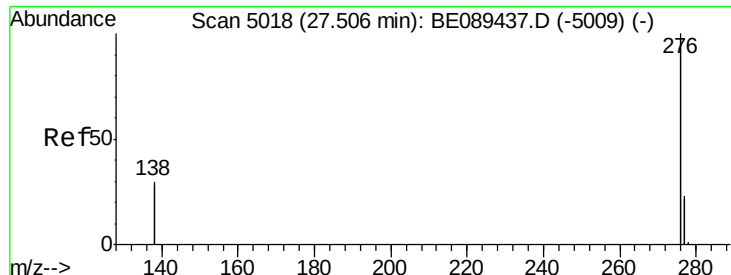
139 31.3 17.0 25.4#

279 29.9 19.1 28.7#



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





#27

Benzo(g,h,i)perylene

Concen: 0.21 ng

RT: 27.51 min Scan# 5017

Delta R.T. 0.00 min

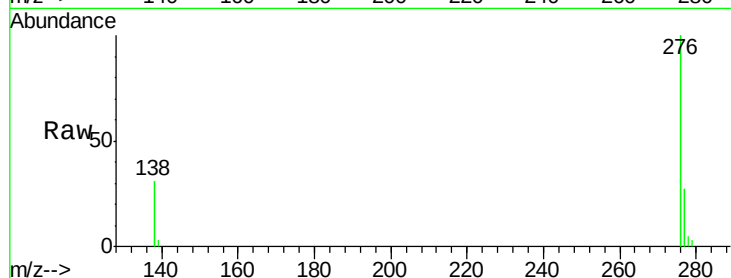
Lab File: BE089459.D

Acq: 31 Jan 2015 6:24

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 26836

Ion Ratio Lower Upper

276 100

277 27.1 18.4 27.6

138 31.3 23.7 35.5

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

