

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089474.D
 Acq On : 31 Jan 2015 18:05
 Operator : TP/IZ
 Sample : MDL-06-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:16:50 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

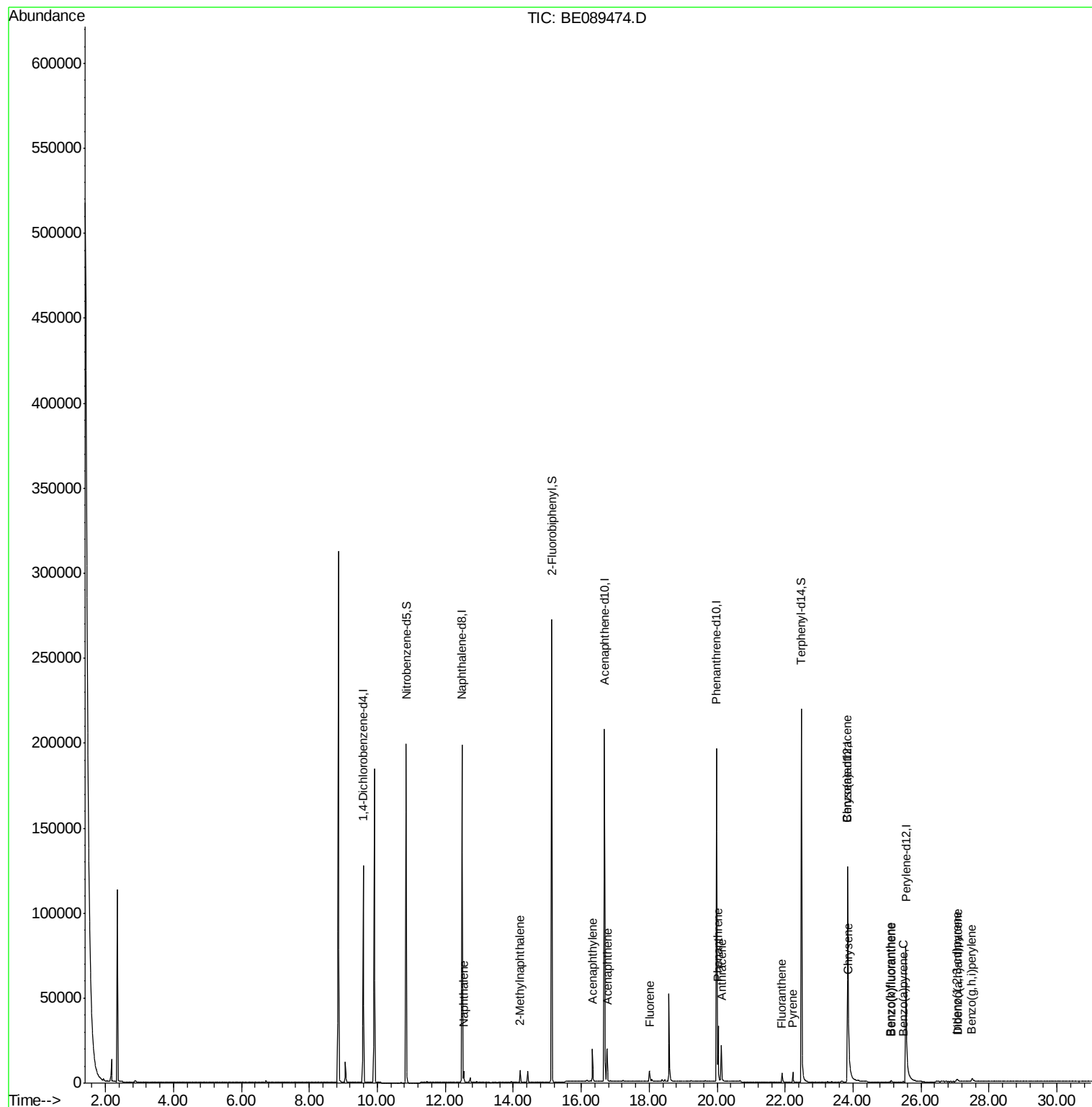
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	51333	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	217569	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	117841	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	192747	5.00	ng	0.00
16) Chrysene-d12	23.84	240	149344	5.00	ng	0.00
22) Perylene-d12	25.56	264	123493	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	135309	9.39	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	235609	7.59	ng	0.00
18) Terphenyl-d14	22.48	244	210276	9.40	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.54	128	7464	0.15	ng	98
5) 2-Methylnaphthalene	14.20	142	4523	0.15	ng	98
8) Acenaphthylene	16.34	152	25017	0.12	ng	99
9) Acenaphthene	16.76	154	4324	0.14	ng	99
10) Fluorene	18.02	166	4688	0.13	ng	97
12) Pentachlorophenol	19.66	266	385	Below Cal		97
13) Phenanthrene	20.03	178	29102	0.15	ng	97
14) Anthracene	20.12	178	23511	0.14	ng	99
15) Fluoranthene	21.91	202	5111	0.12	ng	99
17) Pyrene	22.22	202	5682	0.14	ng	98
19) Benzo(a)anthracene	23.83	228	12270	0.10	ng	97
20) Chrysene	23.87	228	24844	0.18	ng	97
21) Indeno(1,2,3-cd)pyrene	27.05	276	3173	0.03	ng	94
23) Benzo(b)fluoranthene	25.10	252	789	0.22	ng	# 75
24) Benzo(k)fluoranthene	25.12	252	925	0.03	ng	# 74
25) Benzo(a)pyrene	25.48	252	896	0.16	ng	# 65
26) Dibenzo(a,h)anthracene	27.08	278	492	0.15	ng	# 59
27) Benzo(g,h,i)perylene	27.50	276	4287	0.04	ng	# 68

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

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BNA_E

ClientSampleId :

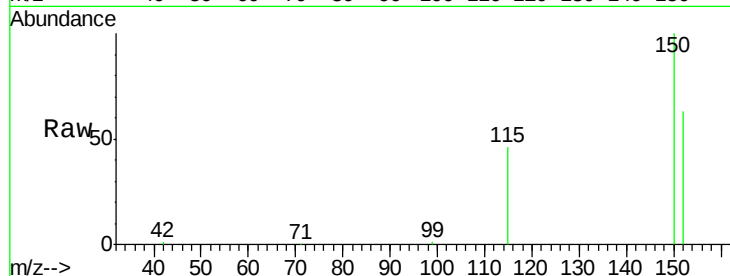
Tgt Ion:152 Resp: 51333

Ion Ratio Lower Upper

152 100

150 159.1 127.2 190.8

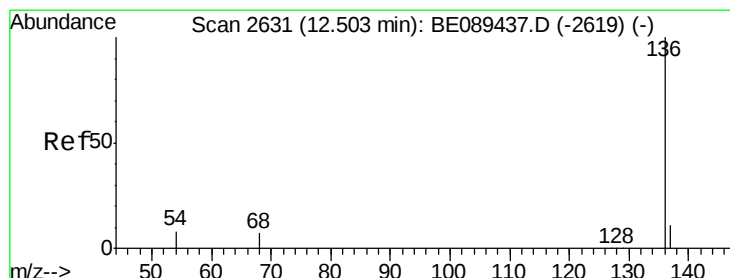
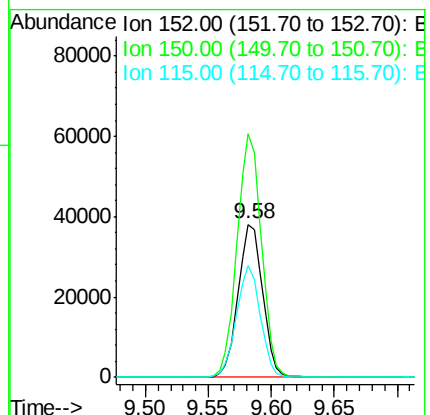
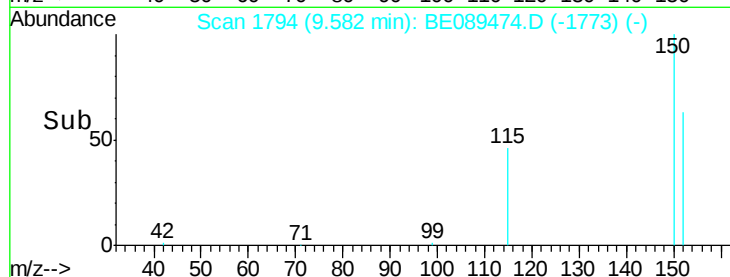
115 72.8 57.5 86.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

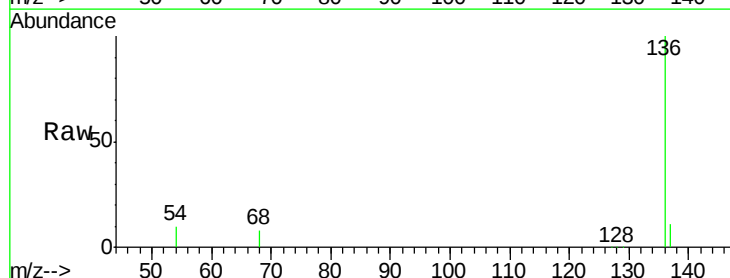
Tgt Ion:136 Resp: 217569

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

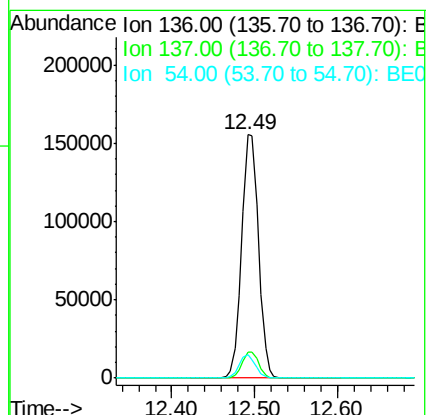
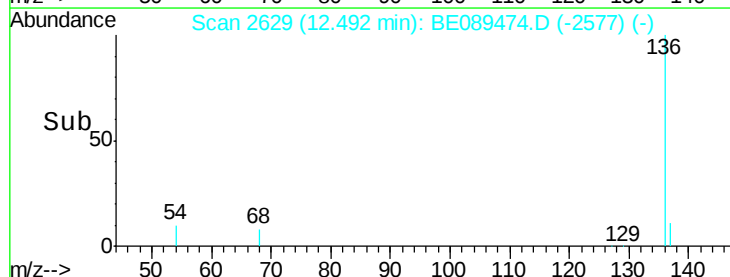
54 9.7 6.6 10.0

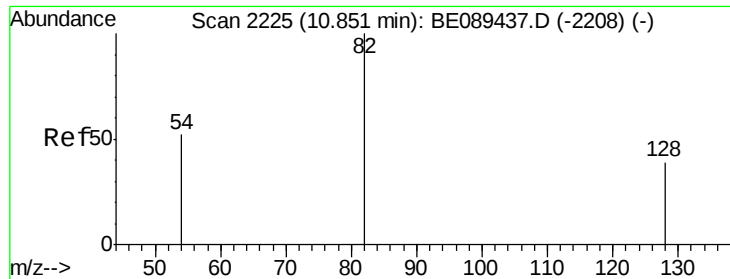


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 9.39 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

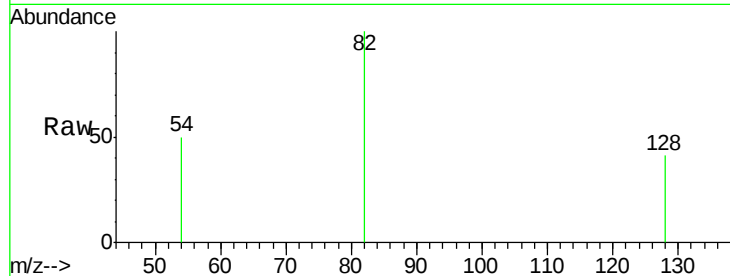
Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :



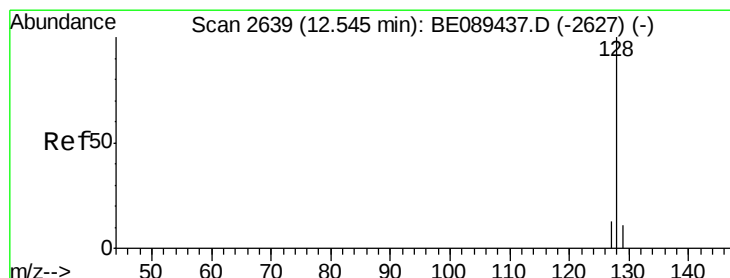
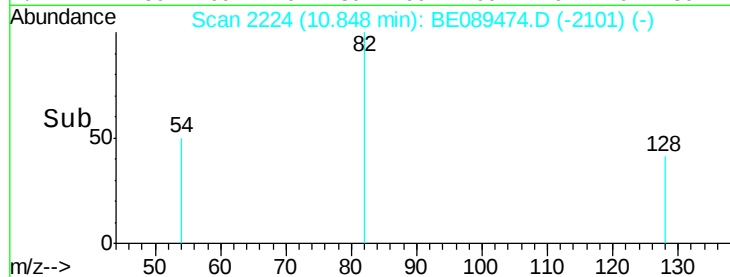
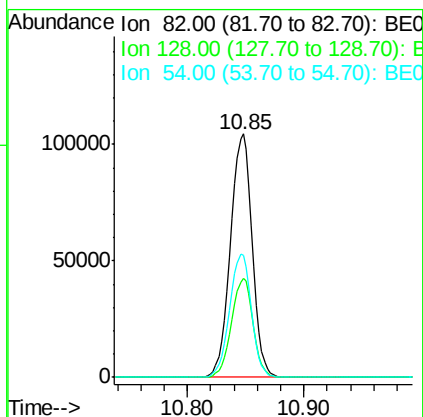
Tgt Ion: 82 Resp: 135309

Ion Ratio Lower Upper

82 100

128 40.5 31.2 46.8

54 50.3 41.9 62.9



#4

Naphthalene

Concen: 0.15 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

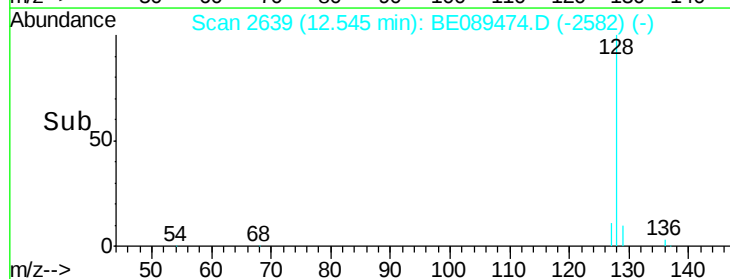
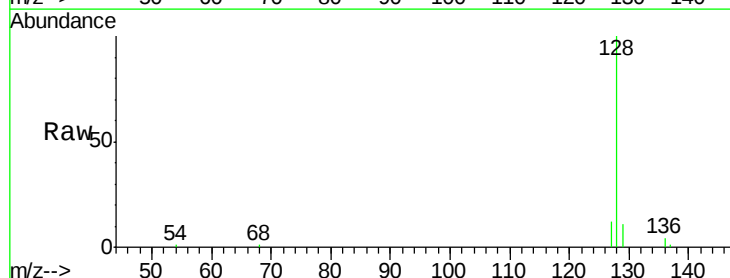
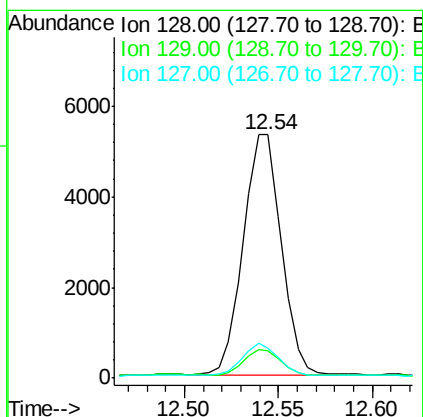
Tgt Ion: 128 Resp: 7464

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

127 12.0 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.15 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089474.D

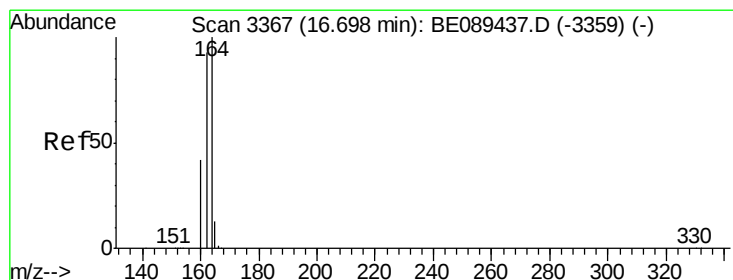
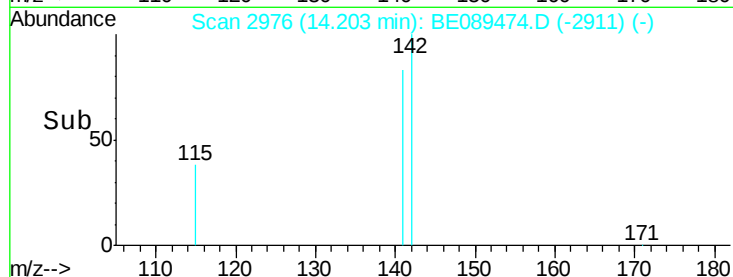
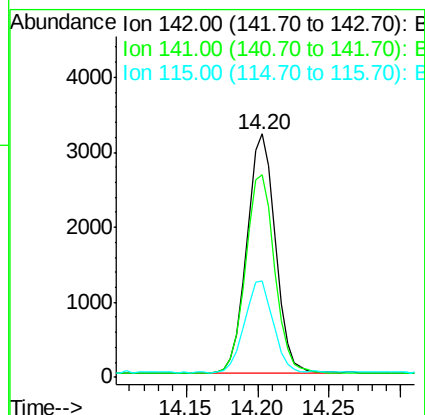
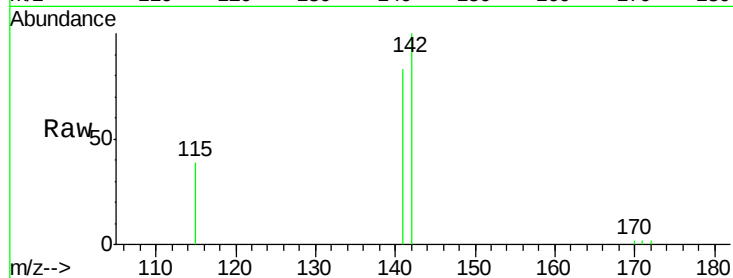
Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	4523
Ion Ratio	Lower	Upper	
142	100		
141	83.4	66.1	99.1
115	39.5	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

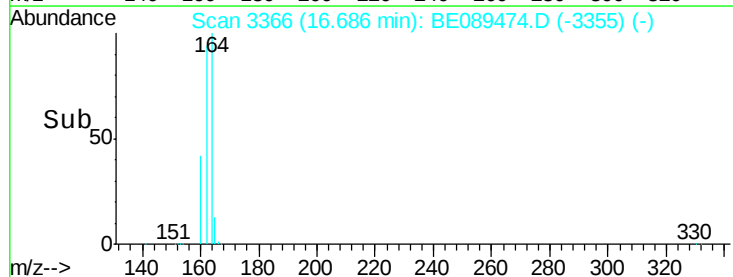
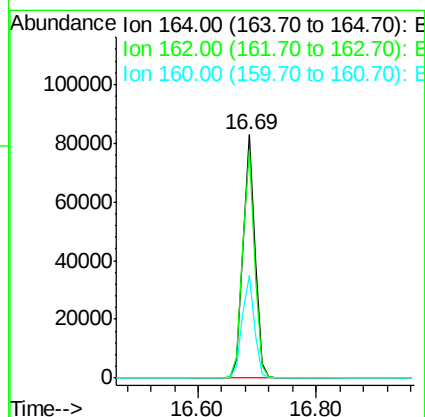
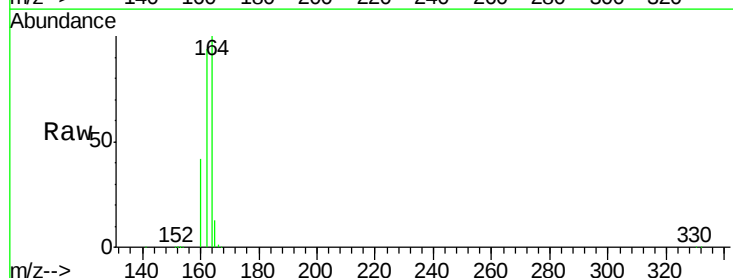
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Tgt Ion:	164	Resp:	117841
Ion Ratio	Lower	Upper	
164	100		
162	93.7	74.7	112.1
160	42.3	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.59 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :

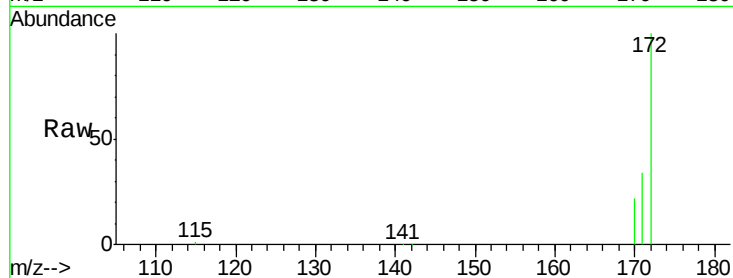
Tgt Ion:172 Resp: 235609

Ion Ratio Lower Upper

172 100

171 33.6 26.2 39.4

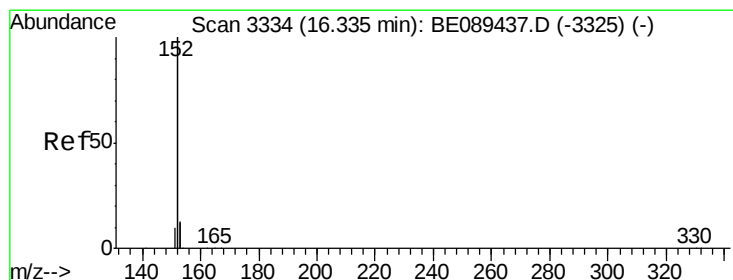
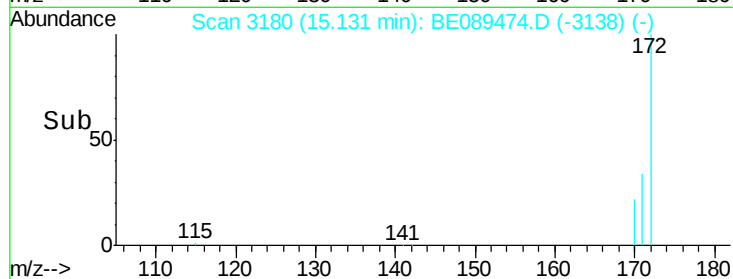
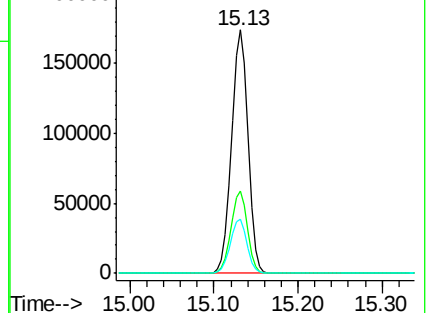
170 22.3 16.5 24.7



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: 0.12 ng

RT: 16.34 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

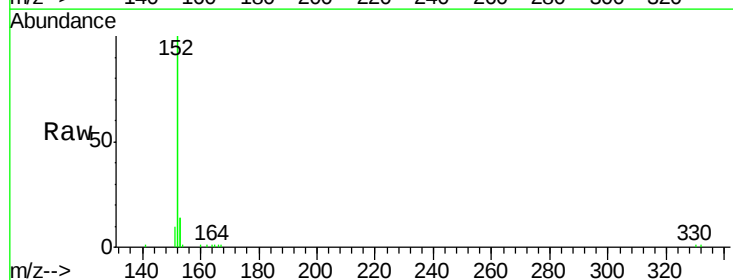
Tgt Ion:152 Resp: 25017

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

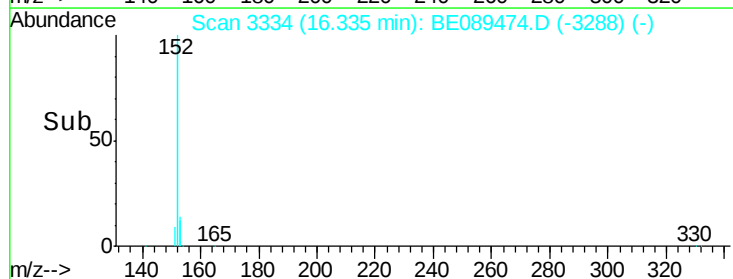
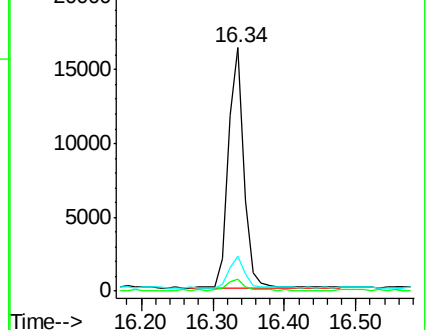
153 13.5 10.3 15.5



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: 0.14 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :

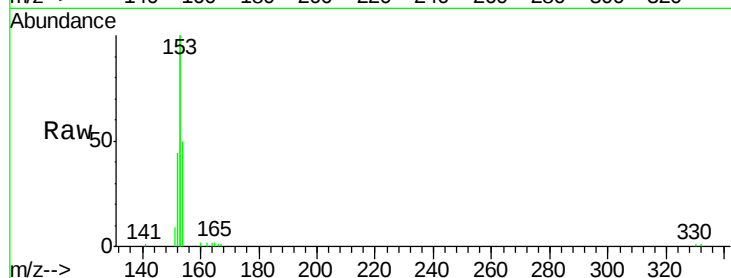
Tgt Ion:154 Resp: 4324

Ion Ratio Lower Upper

154 100

153 430.0 342.3 513.5

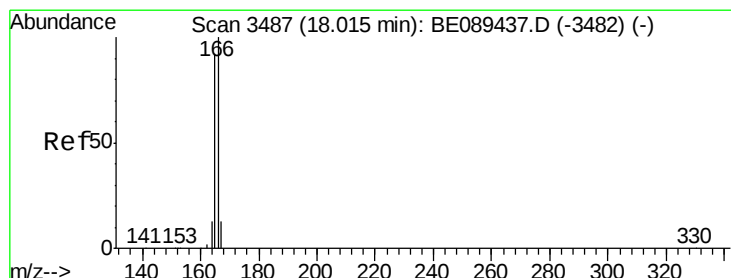
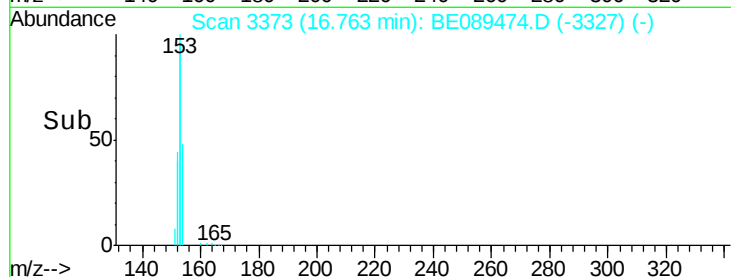
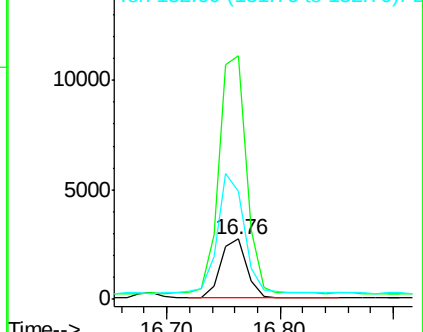
152 206.9 165.5 248.3



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: 0.13 ng

RT: 18.02 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

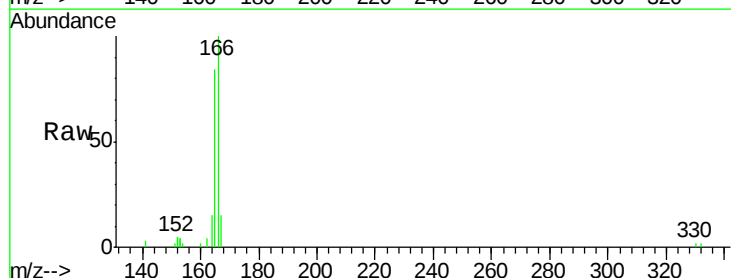
Tgt Ion:166 Resp: 4688

Ion Ratio Lower Upper

166 100

165 90.0 74.4 111.6

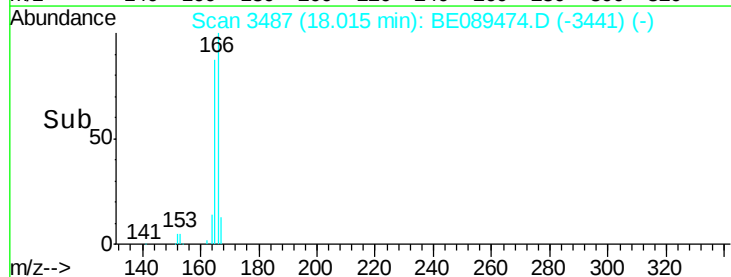
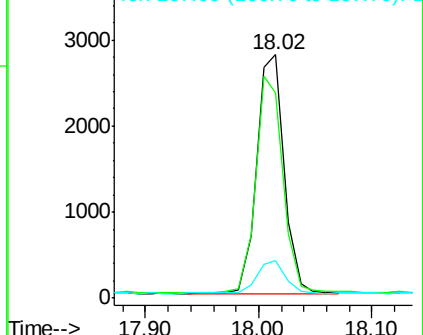
167 13.9 10.6 15.8

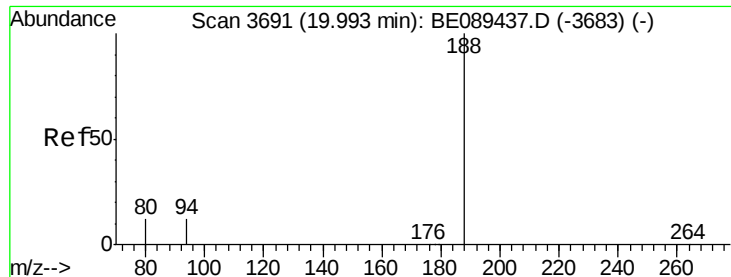


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

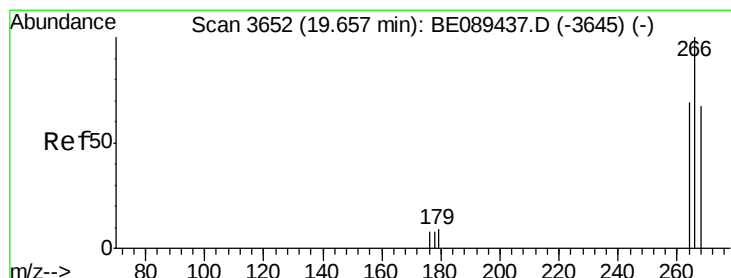
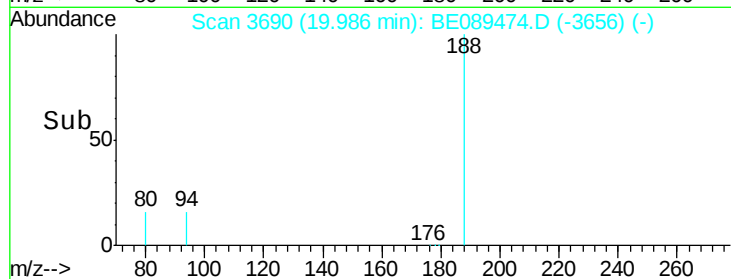
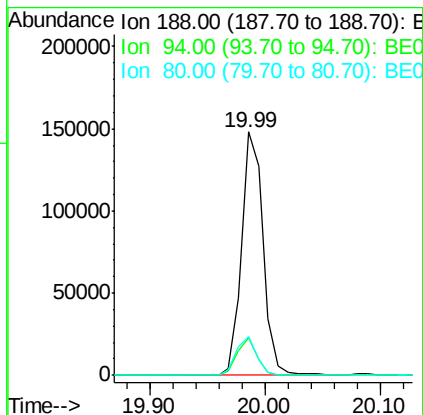
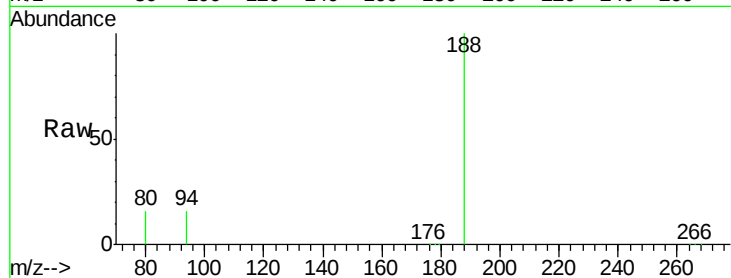




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089474.D
Acq: 31 Jan 2015 18:05

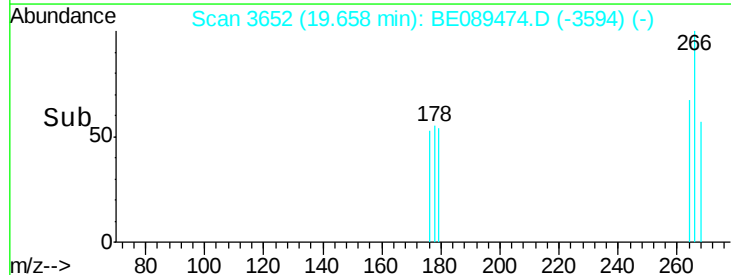
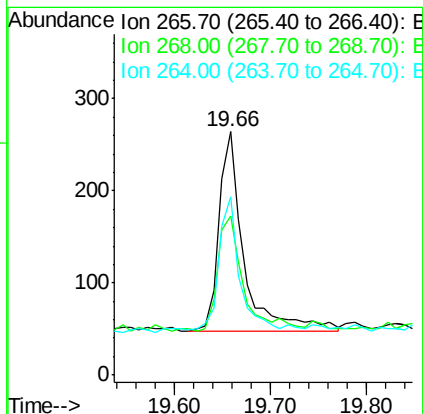
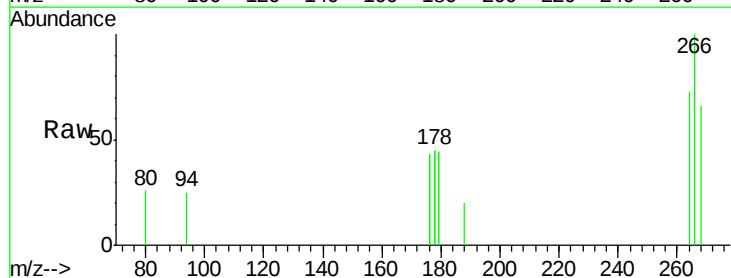
Instrument :
BNA_E
ClientSampleId :

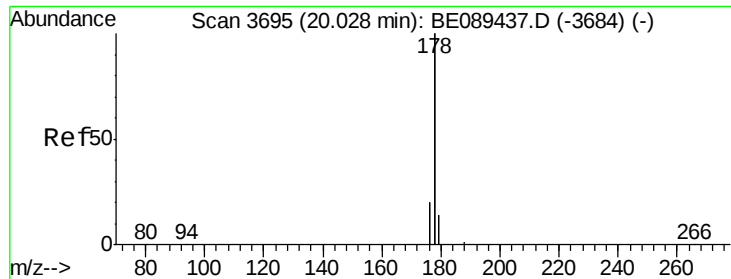
Tgt Ion:188 Resp: 192747
Ion Ratio Lower Upper
188 100
94 15.6 9.4 14.0#
80 16.1 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089474.D
Acq: 31 Jan 2015 18:05

Tgt Ion:266 Resp: 385
Ion Ratio Lower Upper
266 100
268 65.5 54.2 81.4
264 73.1 56.2 84.2

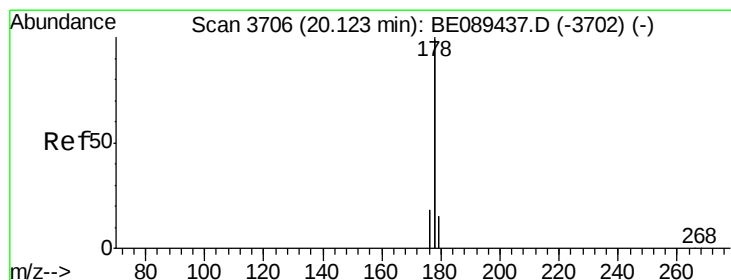
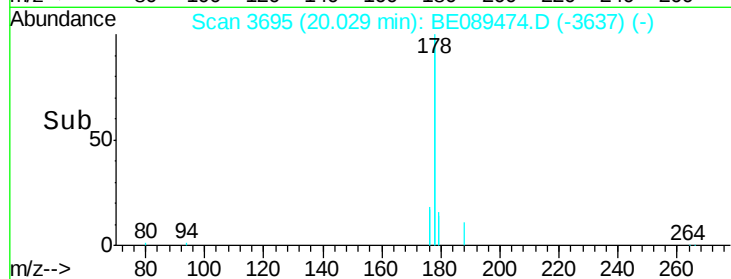
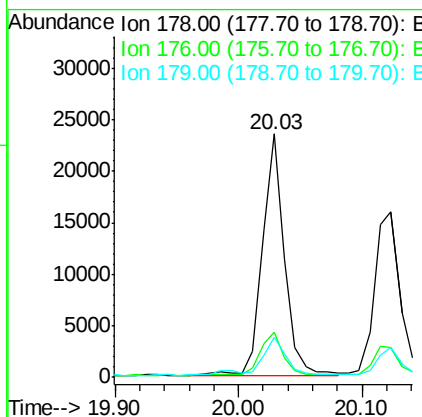
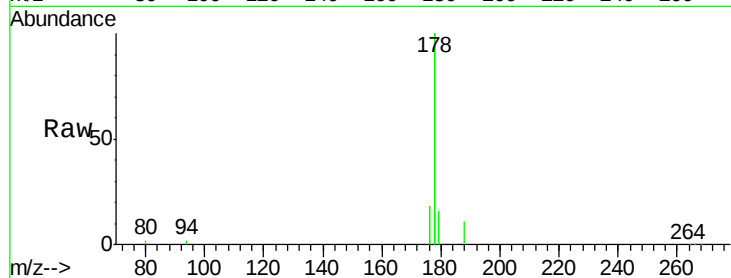




#13
Phenanthrene
Concen: 0.15 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089474.D
Acq: 31 Jan 2015 18:05

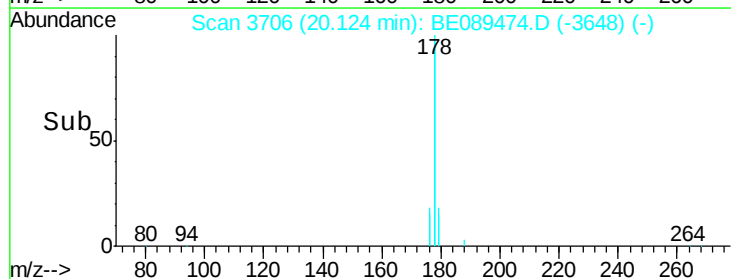
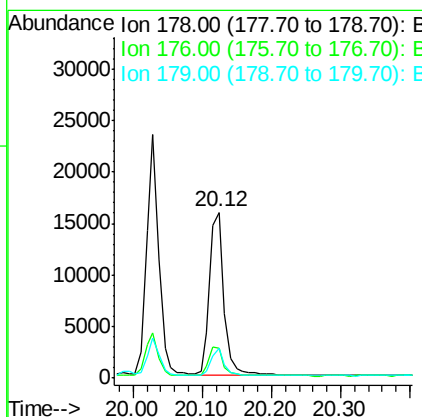
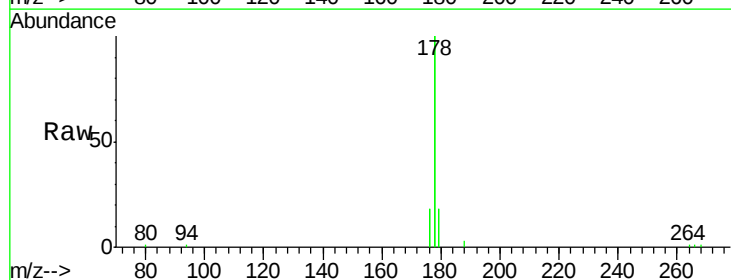
Instrument :
BNA_E
ClientSampleId :

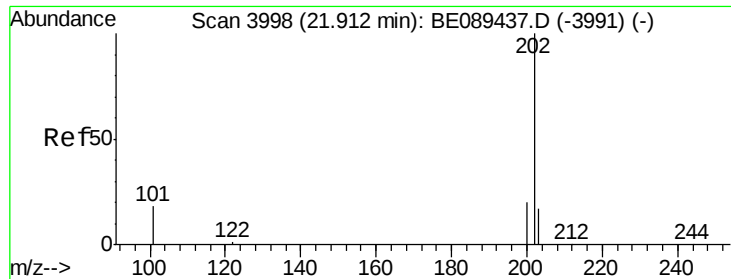
Tgt Ion:178 Resp: 29102
Ion Ratio Lower Upper
178 100
176 18.5 15.1 22.7
179 17.9 12.3 18.5



#14
Anthracene
Concen: 0.14 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089474.D
Acq: 31 Jan 2015 18:05

Tgt Ion:178 Resp: 23511
Ion Ratio Lower Upper
178 100
176 17.7 14.6 22.0
179 15.3 12.2 18.2





#15

Fluoranthene

Concen: 0.12 ng

RT: 21.91 min Scan# 3997

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :

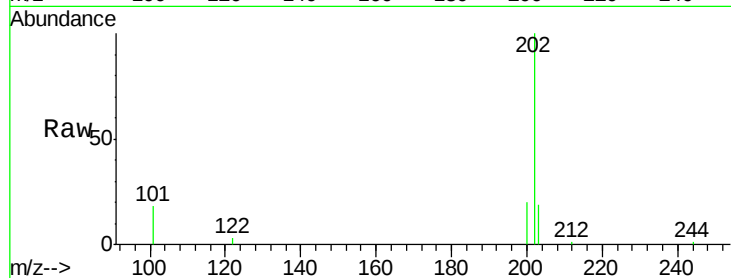
Tgt Ion: 202 Resp: 5111

Ion Ratio Lower Upper

202 100

101 17.5 13.6 20.4

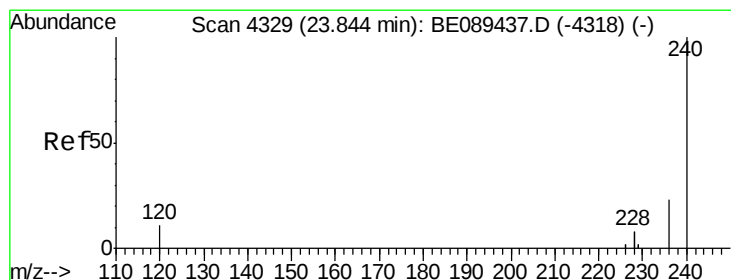
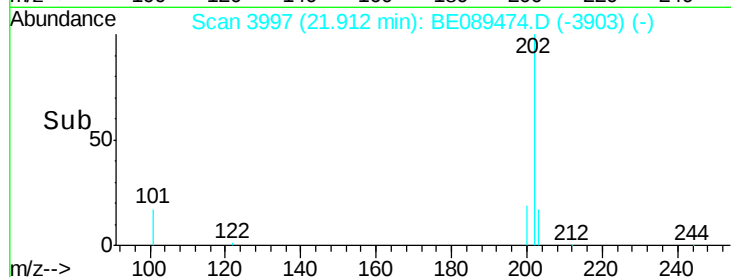
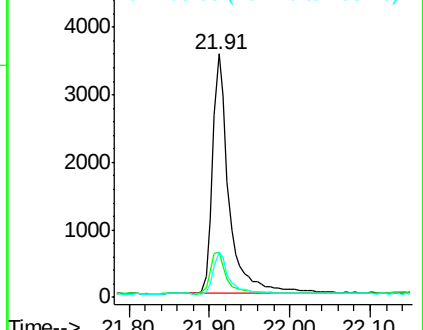
203 17.0 13.8 20.6



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: BE089474.D

Acq: 31 Jan 2015 18:05

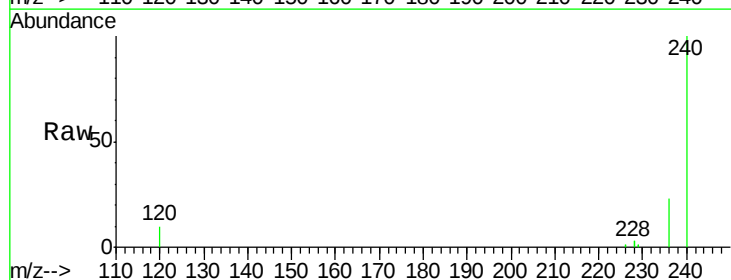
Tgt Ion: 240 Resp: 149344

Ion Ratio Lower Upper

240 100

120 10.3 8.6 13.0

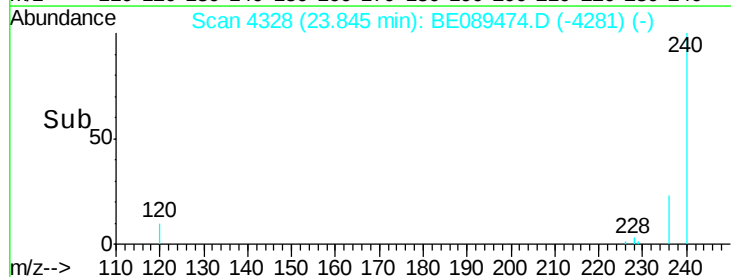
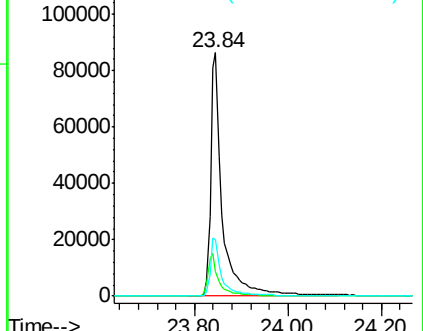
236 23.1 18.7 28.1



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

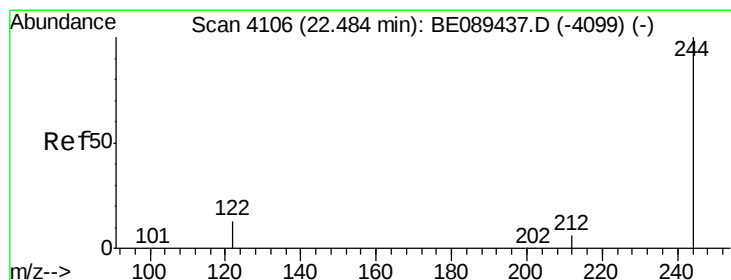
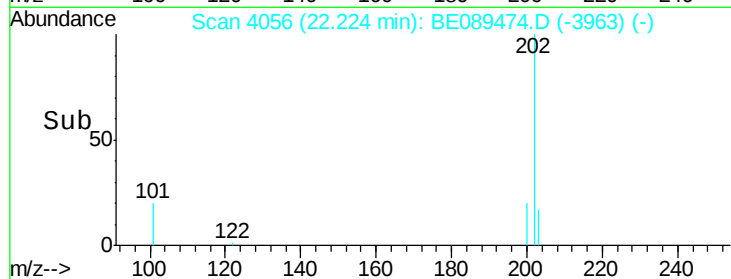
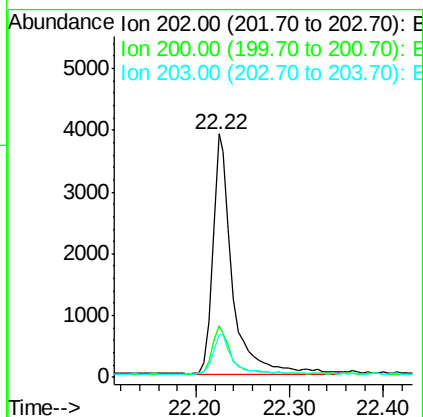
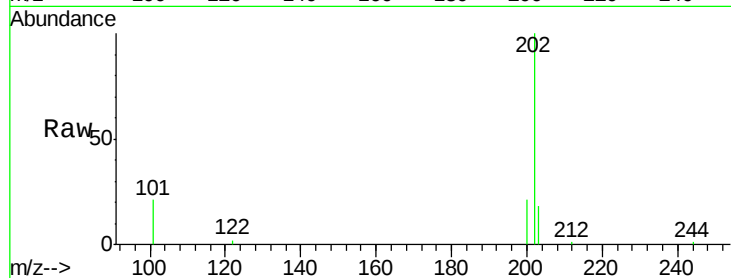




#17
 Pyrene
 Concen: 0.14 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089474.D
 Acq: 31 Jan 2015 18:05

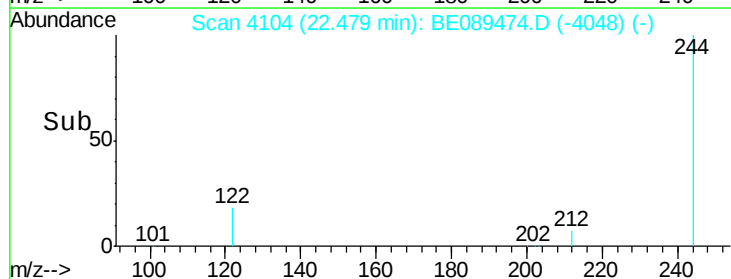
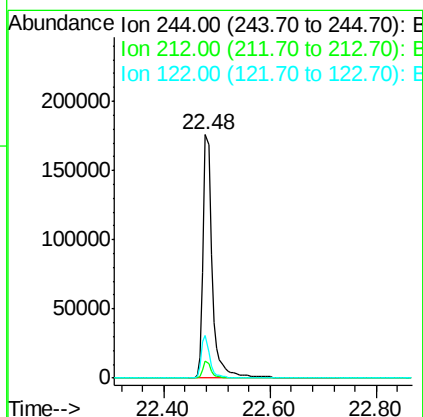
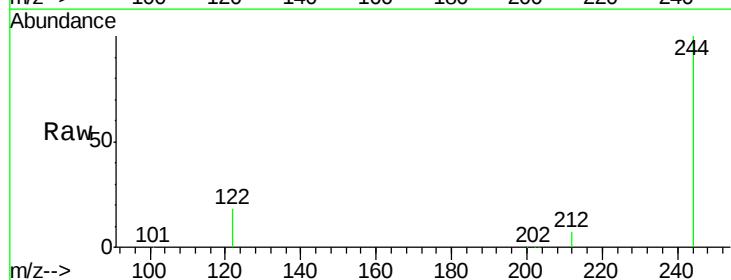
Instrument :
 BNA_E
 ClientSampled :

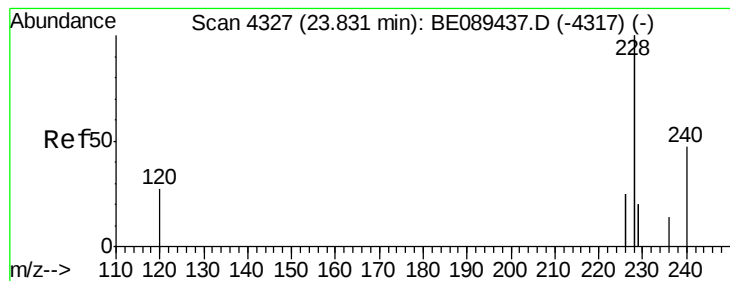
Tgt Ion: 202 Resp: 5682
 Ion Ratio Lower Upper
 202 100
 200 19.5 16.2 24.4
 203 16.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.40 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089474.D
 Acq: 31 Jan 2015 18:05

Tgt Ion: 244 Resp: 210276
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.0 7.6
 122 17.6 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.10 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :

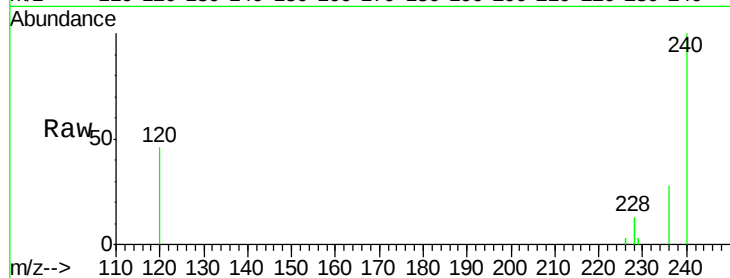
Tgt Ion:228 Resp: 12270

Ion Ratio Lower Upper

228 100

226 26.5 20.0 30.0

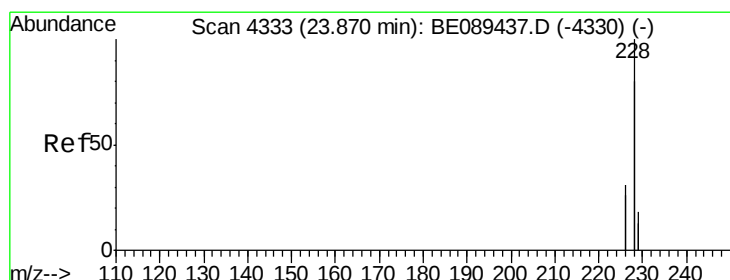
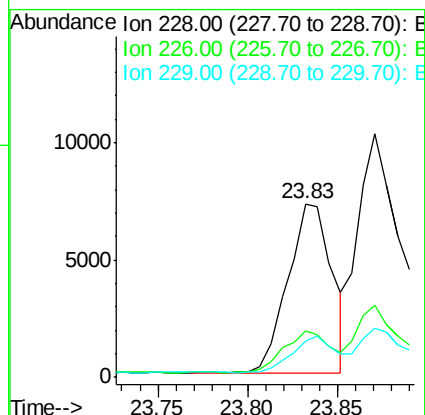
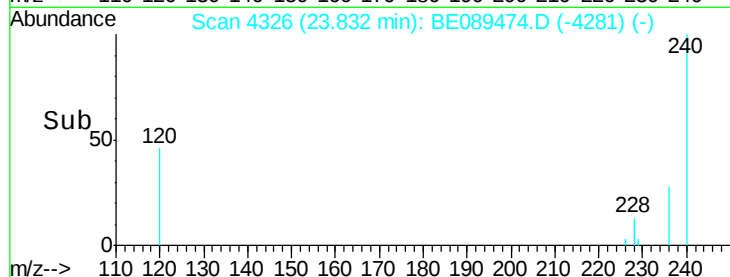
229 21.1 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.18 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

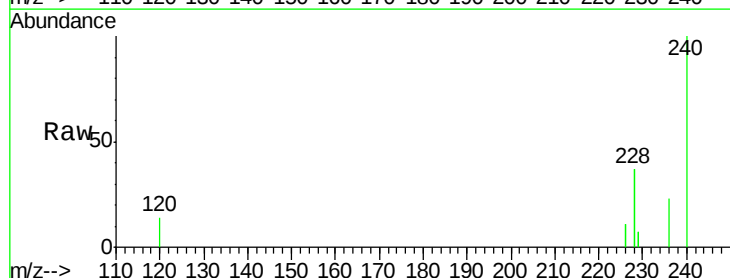
Tgt Ion:228 Resp: 24844

Ion Ratio Lower Upper

228 100

226 29.8 24.5 36.7

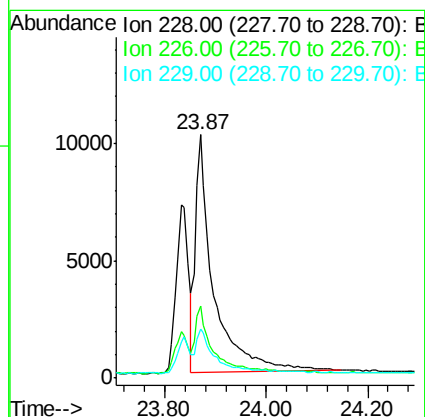
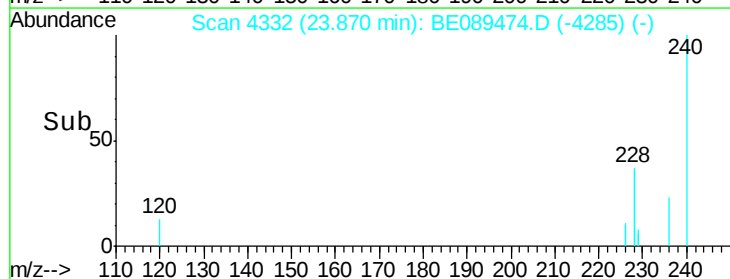
229 20.2 14.1 21.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.03 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

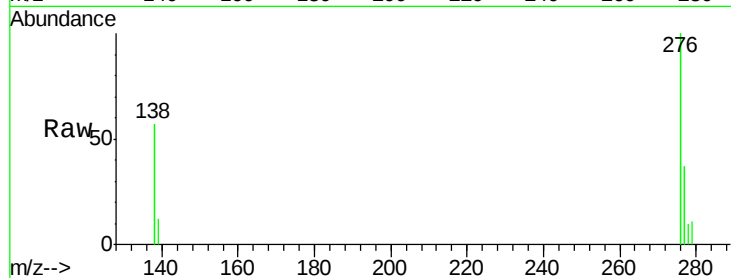
Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :



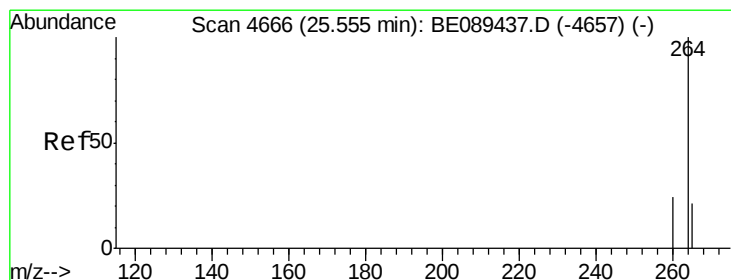
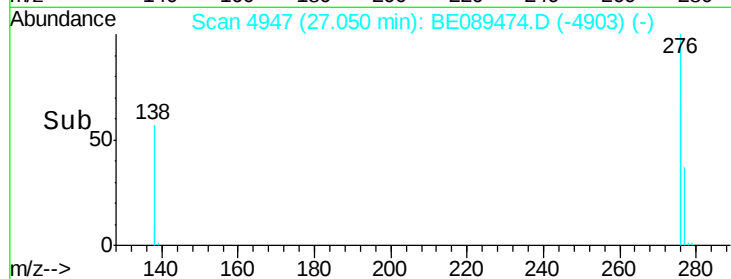
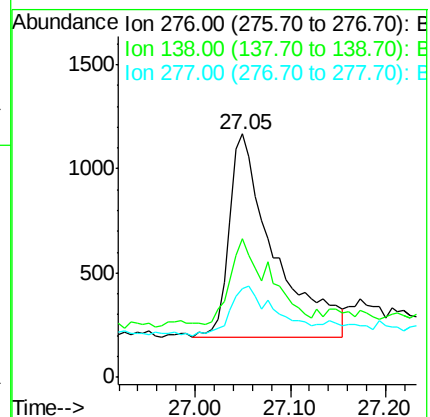
Tgt Ion:276 Resp: 3173

Ion Ratio Lower Upper

276 100

138 37.4 25.4 38.0

277 24.2 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4665

Delta R.T. 0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

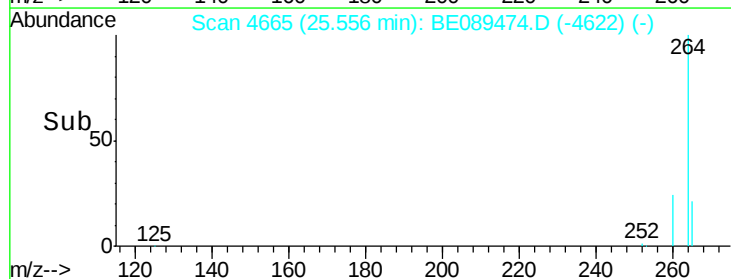
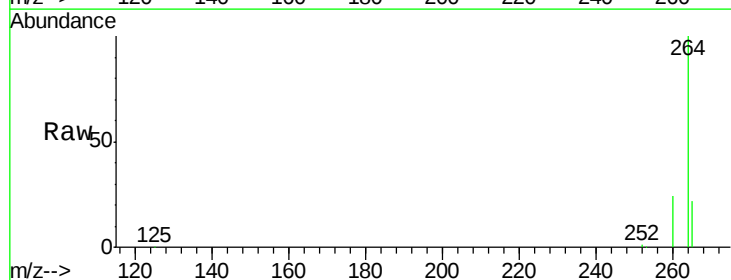
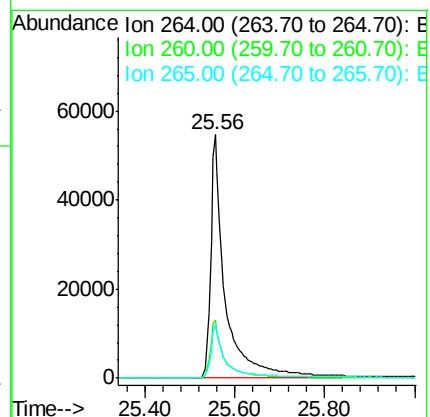
Tgt Ion:264 Resp: 123493

Ion Ratio Lower Upper

264 100

260 23.7 19.4 29.0

265 21.6 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :

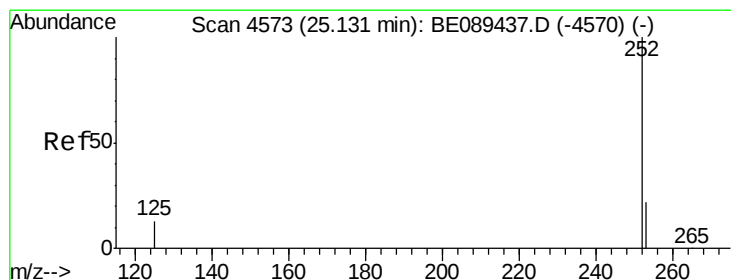
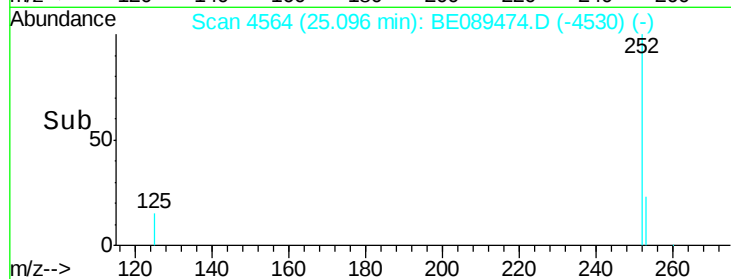
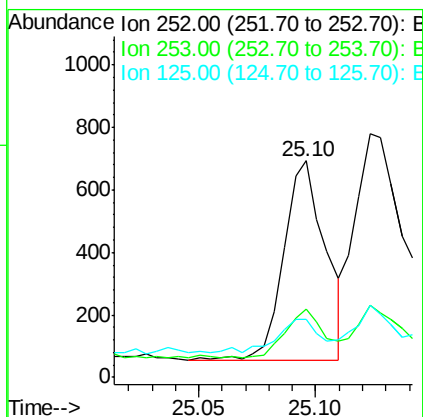
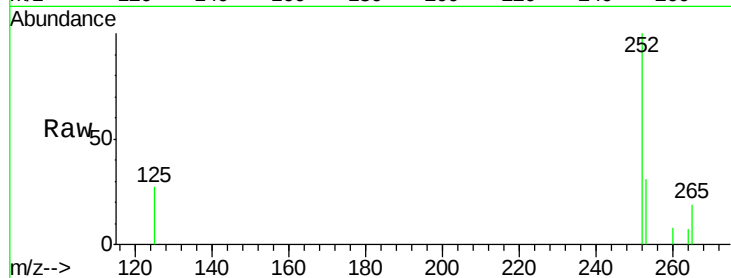
Tgt Ion:252 Resp: 789

Ion Ratio Lower Upper

252 100

253 31.5 17.0 25.6#

125 27.0 11.4 17.0#



#24

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

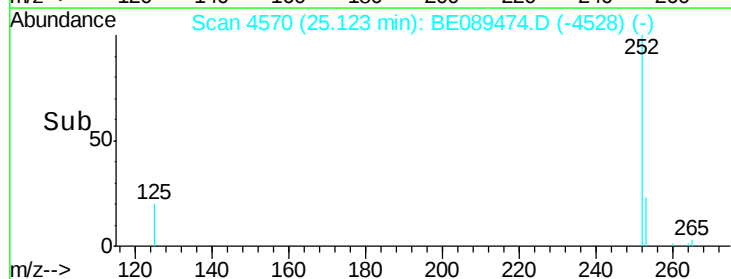
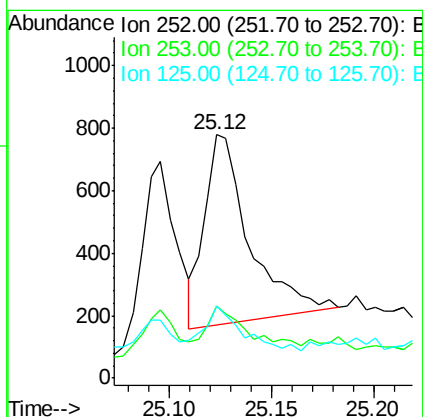
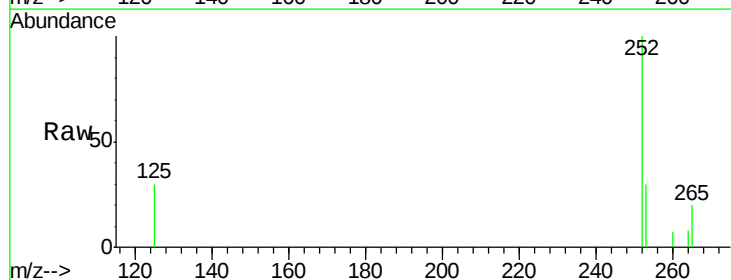
Tgt Ion:252 Resp: 925

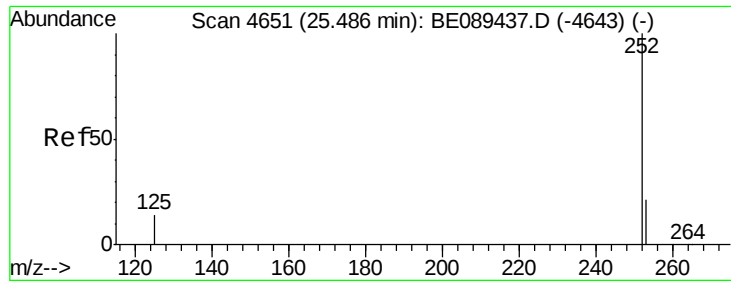
Ion Ratio Lower Upper

252 100

253 29.8 17.4 26.2#

125 29.8 10.9 16.3#





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampled :

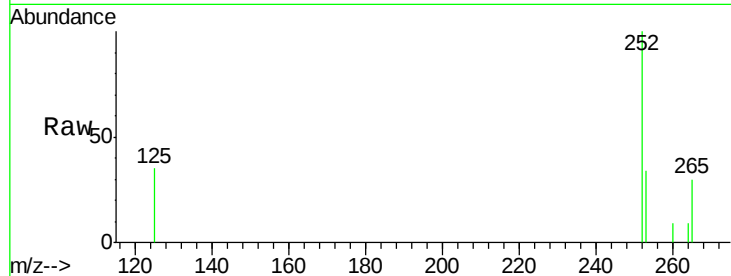
Tgt Ion: 252 Resp: 896

Ion Ratio Lower Upper

252 100

253 33.7 17.3 25.9#

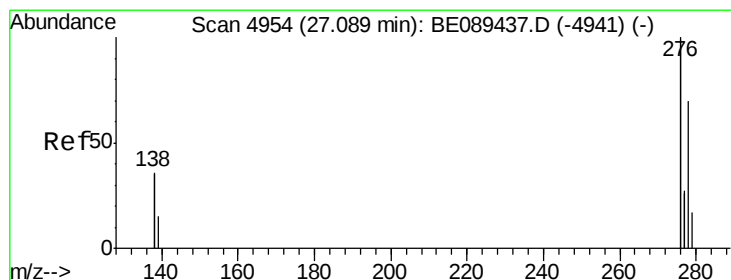
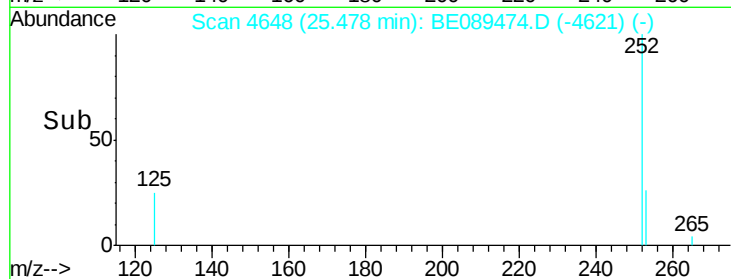
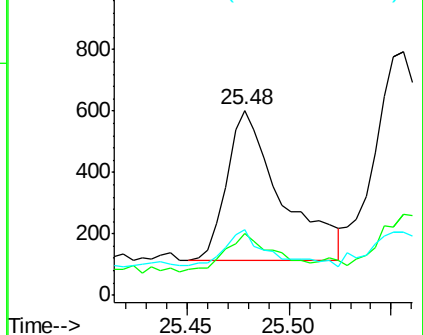
125 35.3 12.0 18.0#



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: 0.15 ng

RT: 27.08 min Scan# 4951

Delta R.T. -0.01 min

Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

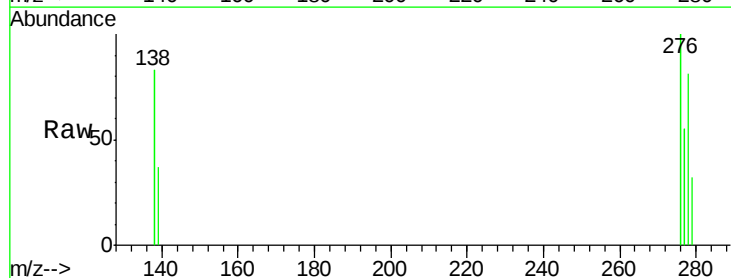
Tgt Ion: 278 Resp: 492

Ion Ratio Lower Upper

278 100

139 46.1 17.0 25.4#

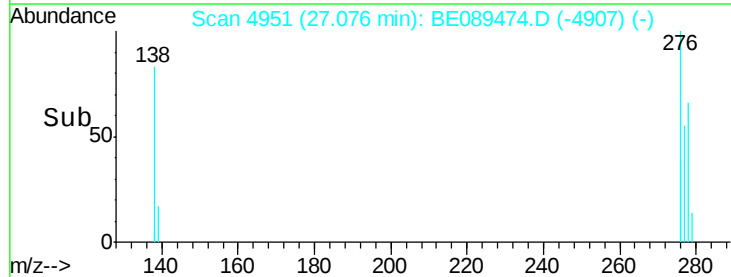
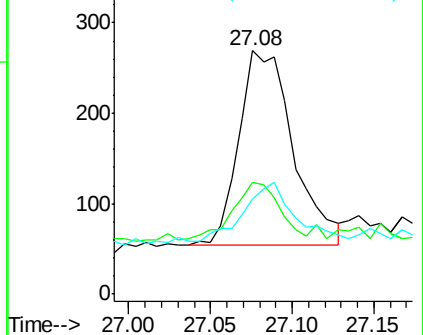
279 39.0 19.1 28.7#



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: 0.04 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

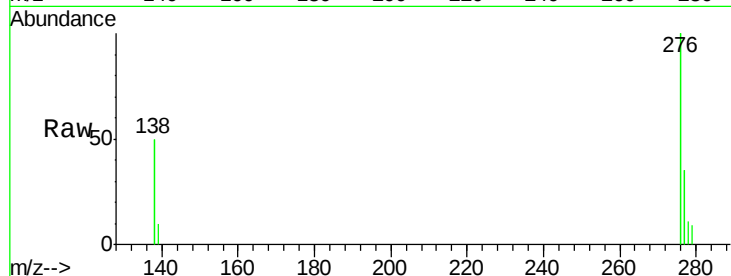
Lab File: BE089474.D

Acq: 31 Jan 2015 18:05

Instrument :

BNA_E

ClientSampleId :



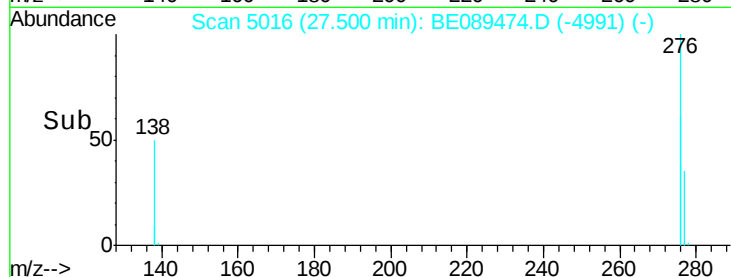
Tgt Ion: 276 Resp: 4287

Ion Ratio Lower Upper

276 100

277 34.5 18.4 27.6#

138 50.1 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

