

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089481.D
 Acq On : 31 Jan 2015 23:16
 Operator : TP/IZ
 Sample : MDL-06-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:42:48 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	57583	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	240992	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	125113	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	208318	5.00	ng	0.00
16) Chrysene-d12	23.84	240	165507	5.00	ng	0.00
22) Perylene-d12	25.55	264	135696	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	141596	8.87	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	247700	7.52	ng	0.00
18) Terphenyl-d14	22.48	244	228014	9.20	ng	0.00

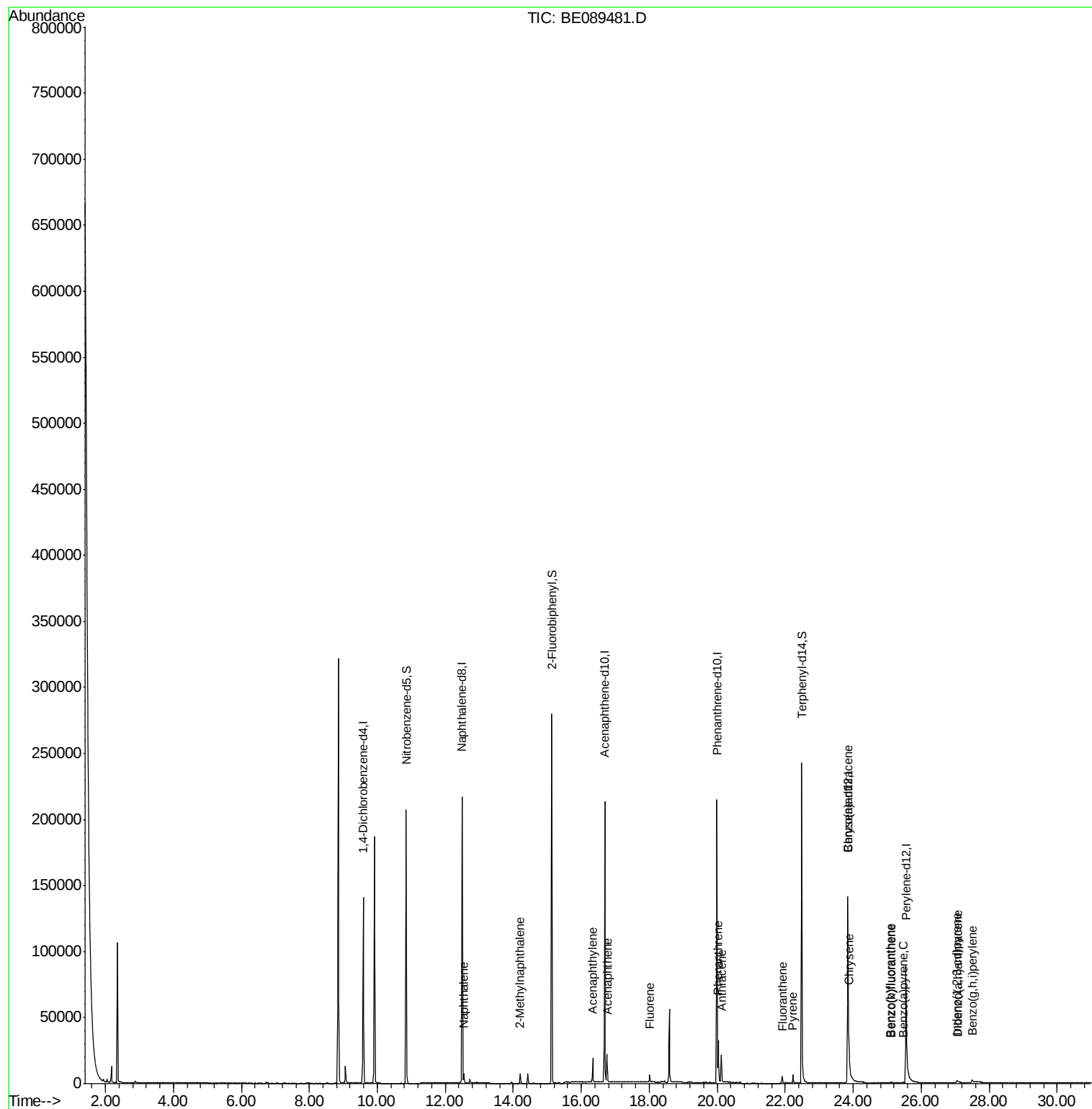
Target Compounds						Qvalue
4) Naphthalene	12.54	128	8178	0.14	ng	97
5) 2-Methylnaphthalene	14.20	142	4784	0.14	ng	98
8) Acenaphthylene	16.34	152	25427	0.11	ng	99
9) Acenaphthene	16.76	154	4313	0.13	ng	93
10) Fluorene	18.00	166	4786	0.13	ng	96
12) Pentachlorophenol	19.66	266	132	Below Cal		95
13) Phenanthrene	20.03	178	30028	0.15	ng	98
14) Anthracene	20.12	178	23576	0.13	ng	99
15) Fluoranthene	21.91	202	5201	0.12	ng	97
17) Pyrene	22.23	202	5717	0.13	ng	99
19) Benzo(a)anthracene	23.84	228	12527	0.09	ng	97
20) Chrysene	23.87	228	26251	0.17	ng	97
21) Indeno(1,2,3-cd)pyrene	27.05	276	3288	0.02	ng	# 90
23) Benzo(b)fluoranthene	25.09	252	775	0.22	ng	# 79
24) Benzo(k)fluoranthene	25.12	252	1119	0.03	ng	# 81
25) Benzo(a)pyrene	25.48	252	916	0.16	ng	# 72
26) Dibenzo(a,h)anthracene	27.08	278	616	0.15	ng	# 63
27) Benzo(g,h,i)perylene	27.50	276	4325	0.04	ng	# 73

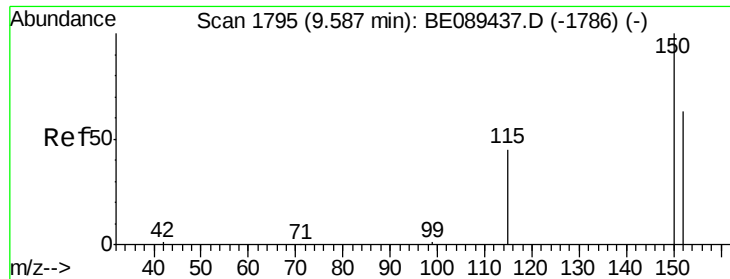
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

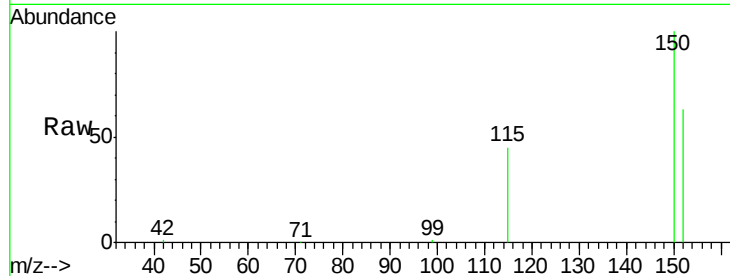
Tgt Ion:152 Resp: 57583

Ion Ratio Lower Upper

152 100

150 158.6 127.2 190.8

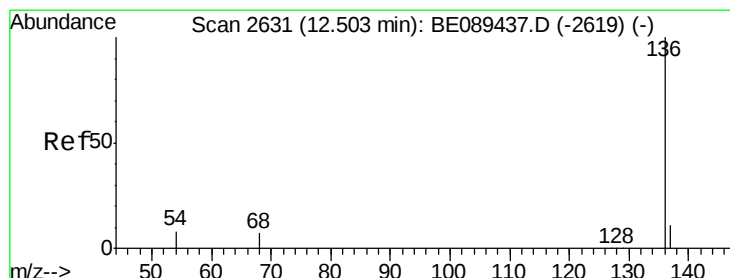
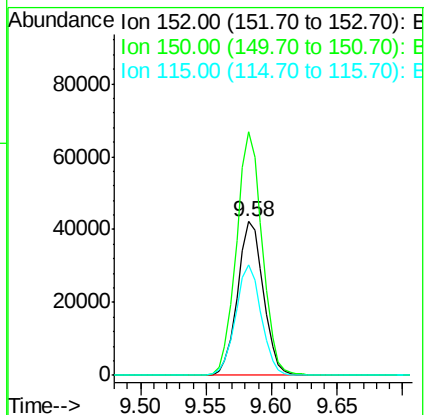
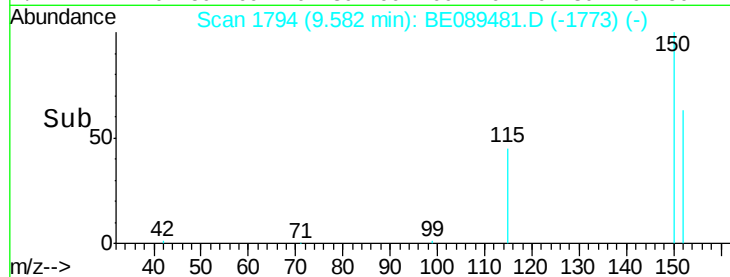
115 71.9 57.5 86.3



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: BE089481.D

Acq: 31 Jan 2015 23:16

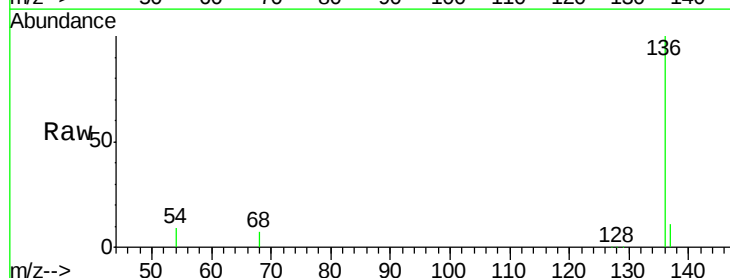
Tgt Ion:136 Resp: 240992

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

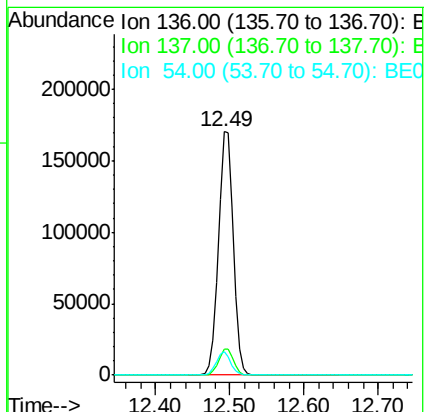
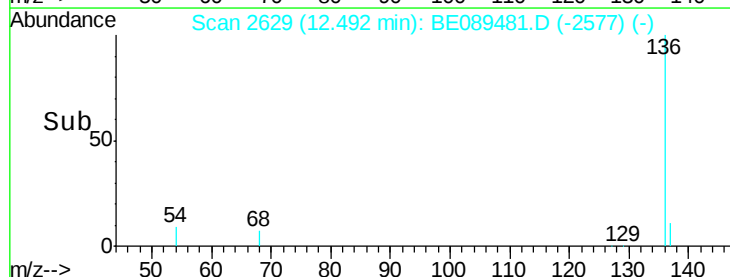
54 9.4 6.6 10.0



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

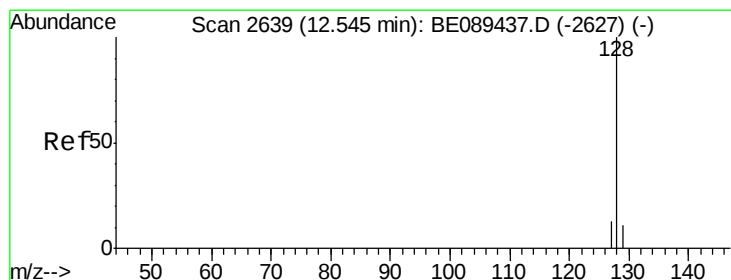
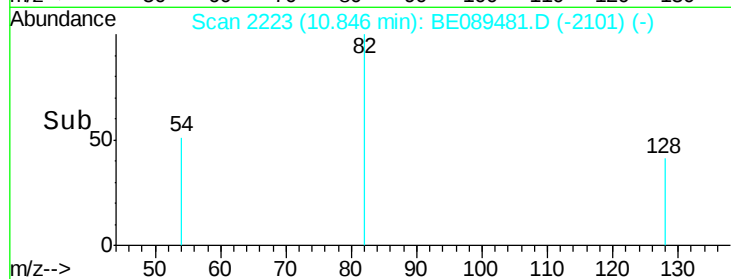
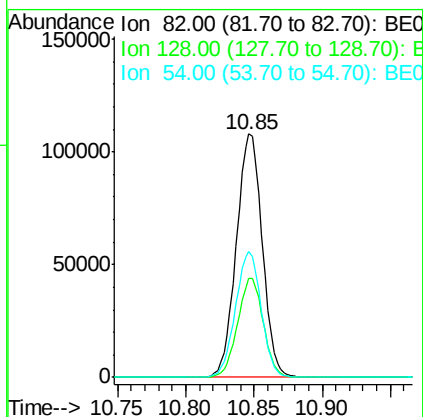
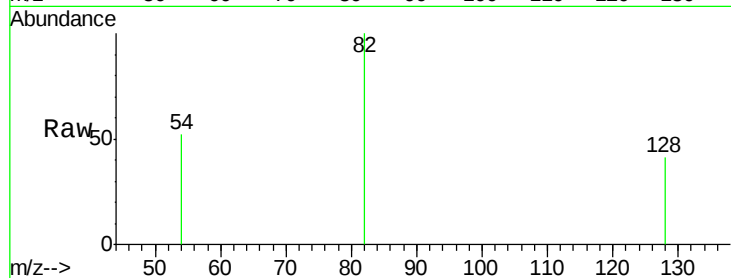




#3
 Nitrobenzene-d5
 Concen: 8.87 ng
 RT: 10.85 min Scan# 2223
 Delta R.T. -0.00 min
 Lab File: BE089481.D
 Acq: 31 Jan 2015 23:16

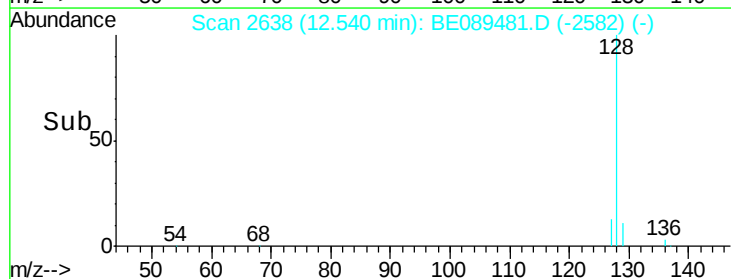
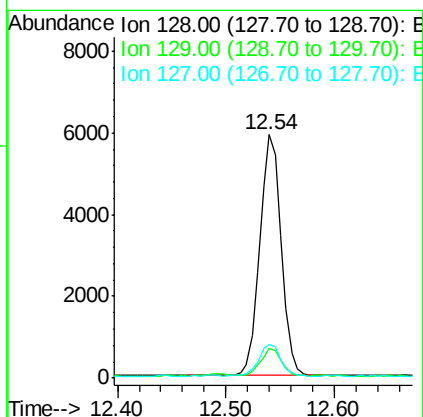
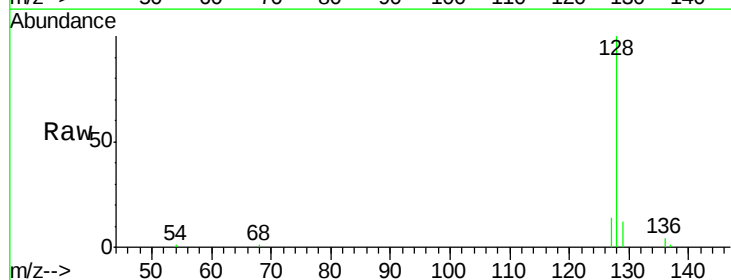
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 82 Resp: 141596
 Ion Ratio Lower Upper
 82 100
 128 40.7 31.2 46.8
 54 51.5 41.9 62.9



#4
 Naphthalene
 Concen: 0.14 ng
 RT: 12.54 min Scan# 2638
 Delta R.T. -0.01 min
 Lab File: BE089481.D
 Acq: 31 Jan 2015 23:16

Tgt Ion: 128 Resp: 8178
 Ion Ratio Lower Upper
 128 100
 129 12.3 8.8 13.2
 127 14.0 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.14 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089481.D

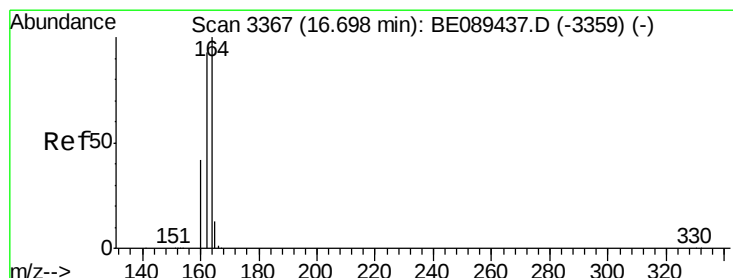
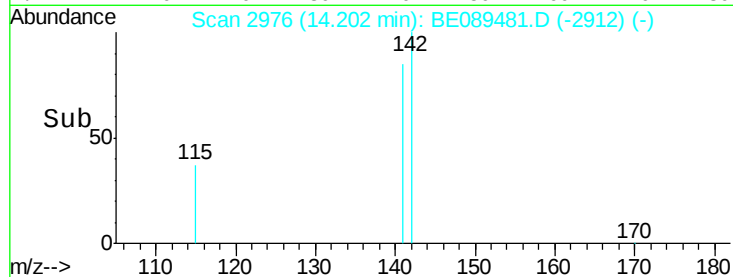
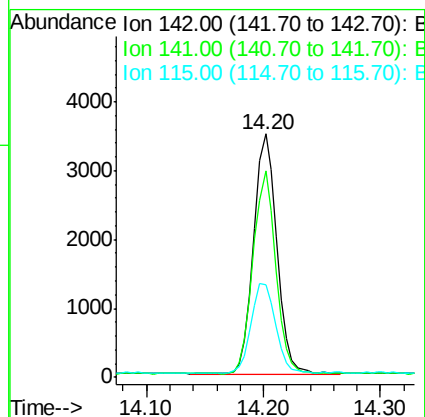
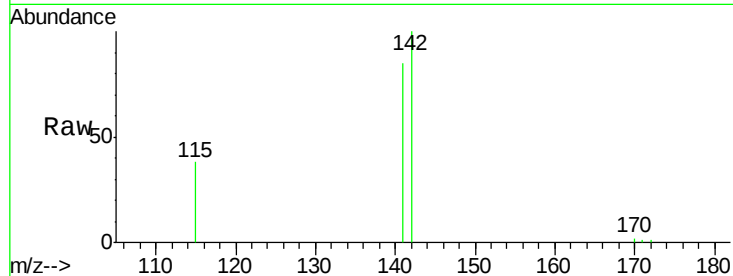
Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	4784
Ion Ratio	Lower	Upper	
142	100		
141	85.1	66.1	99.1
115	38.3	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

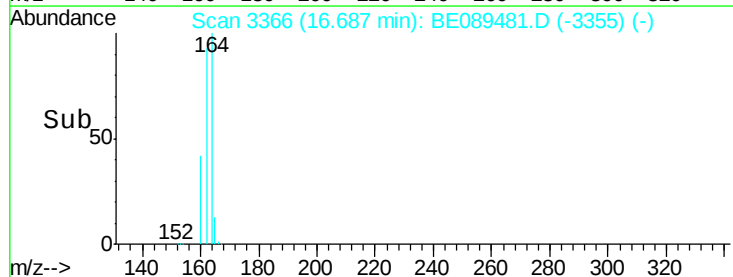
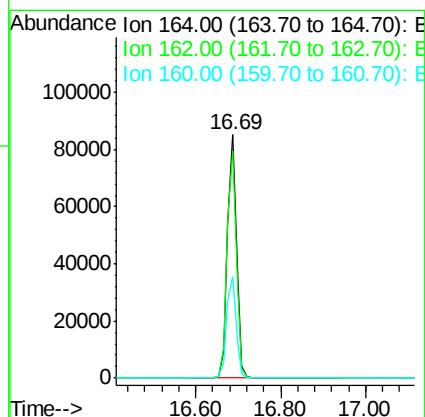
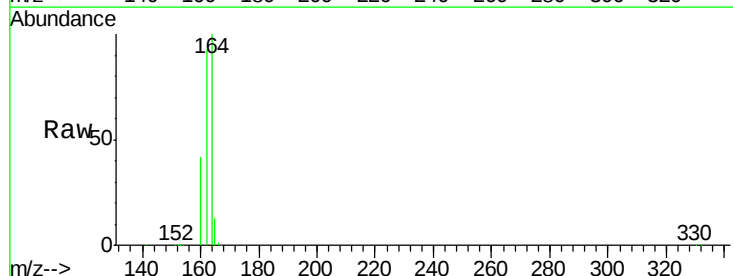
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Tgt Ion:	164	Resp:	125113
Ion Ratio	Lower	Upper	
164	100		
162	93.4	74.7	112.1
160	41.9	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.52 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

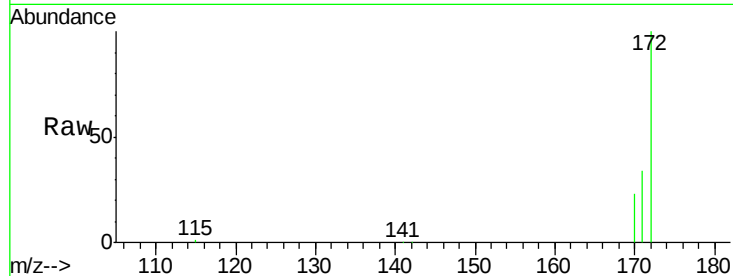
Tgt Ion:172 Resp: 247700

Ion Ratio Lower Upper

172 100

171 34.1 26.2 39.4

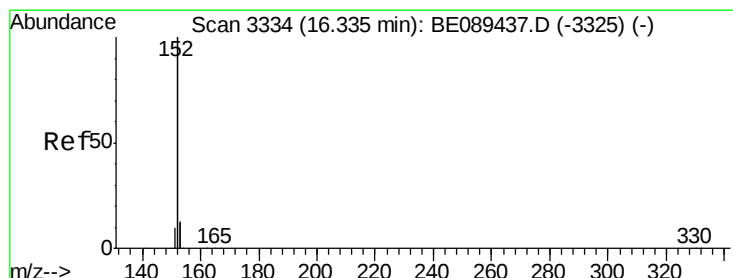
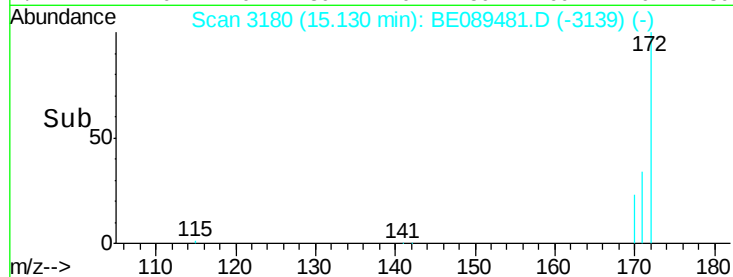
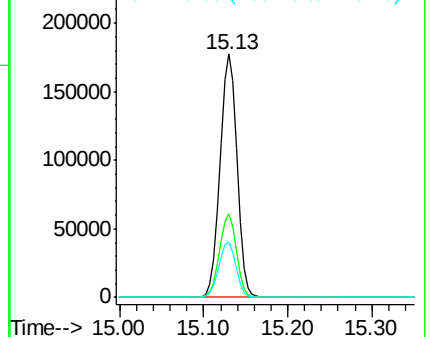
170 22.6 16.5 24.7



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: 0.11 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

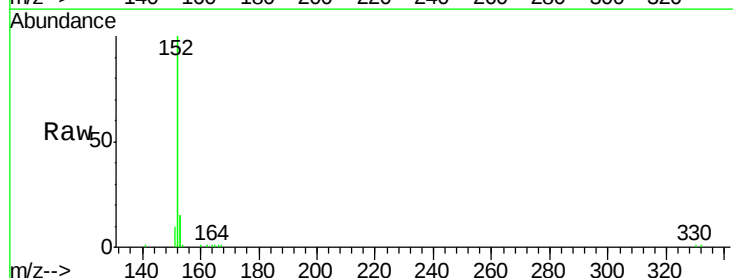
Tgt Ion:152 Resp: 25427

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

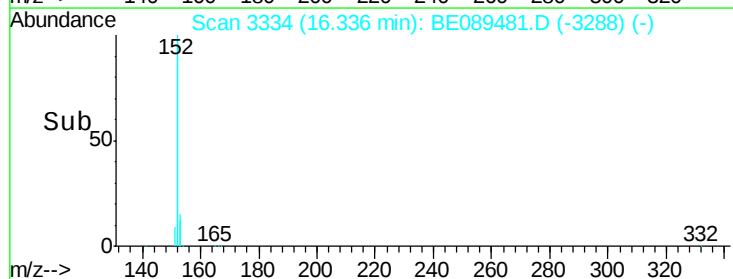
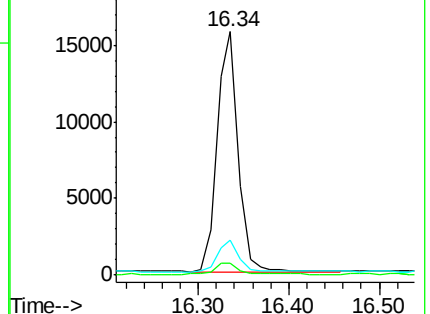
153 13.3 10.3 15.5

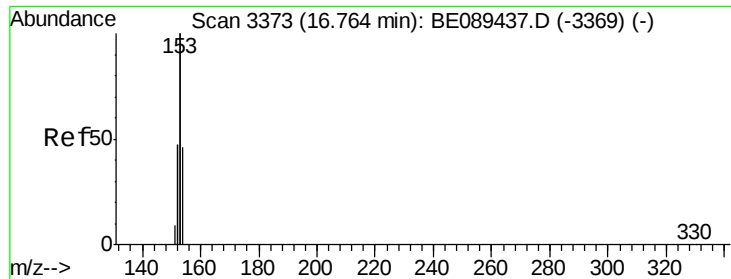


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.13 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

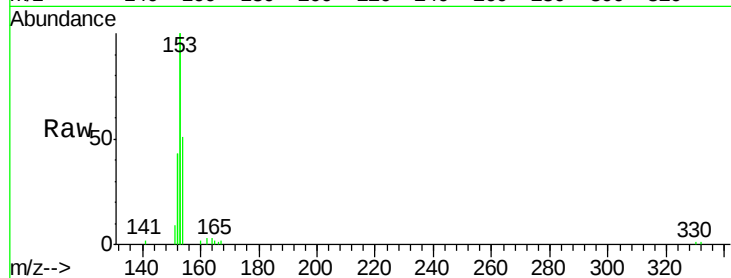
Tgt Ion:154 Resp: 4313

Ion Ratio Lower Upper

154 100

153 440.4 342.3 513.5

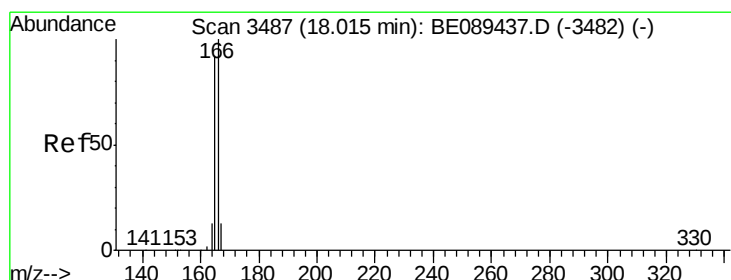
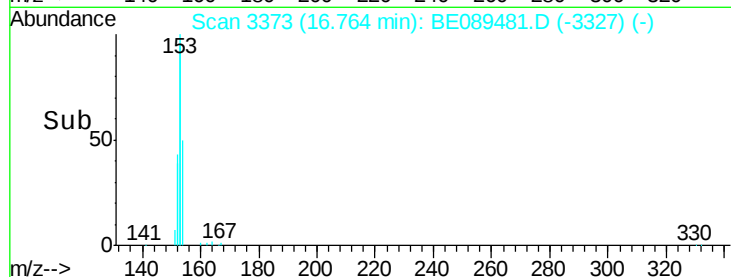
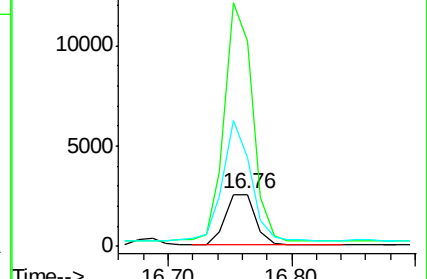
152 222.5 165.5 248.3



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: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

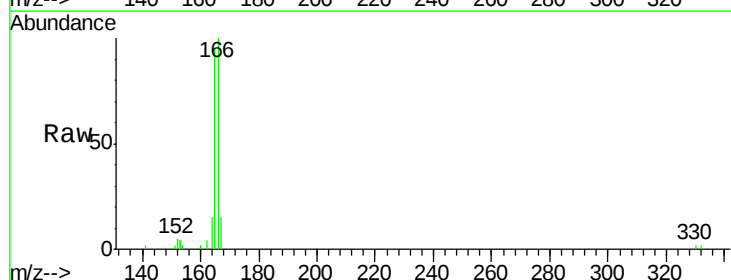
Tgt Ion:166 Resp: 4786

Ion Ratio Lower Upper

166 100

165 88.9 74.4 111.6

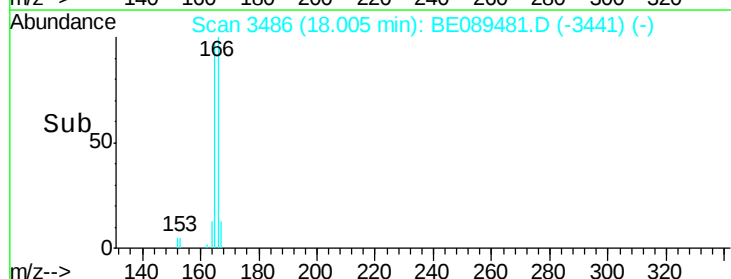
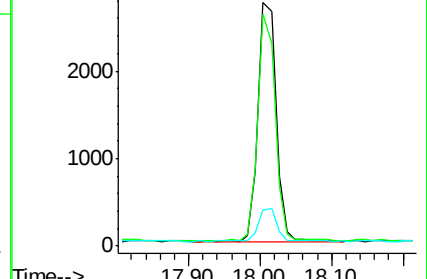
167 14.0 10.6 15.8



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

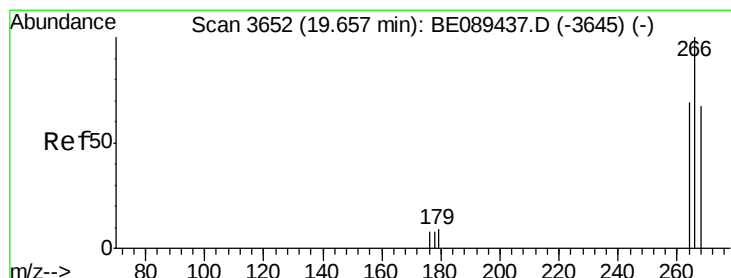
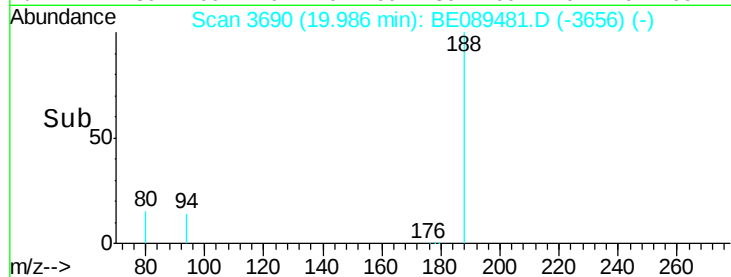
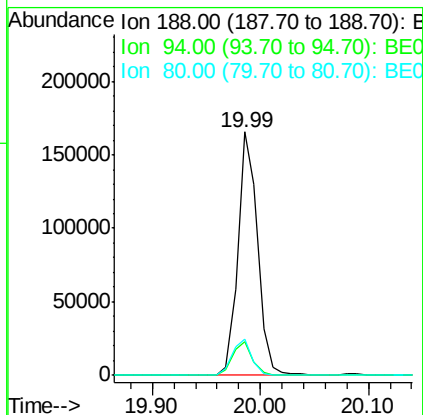
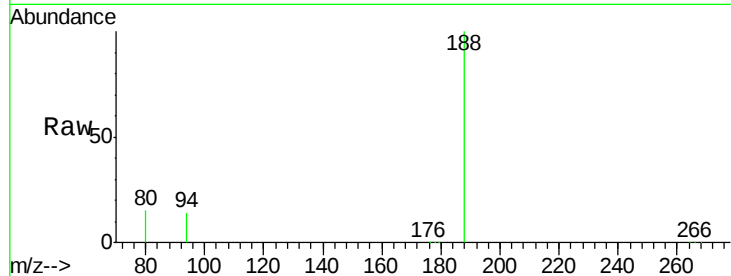




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089481.D
Acq: 31 Jan 2015 23:16

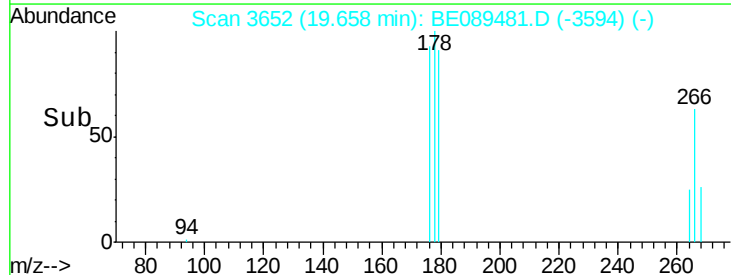
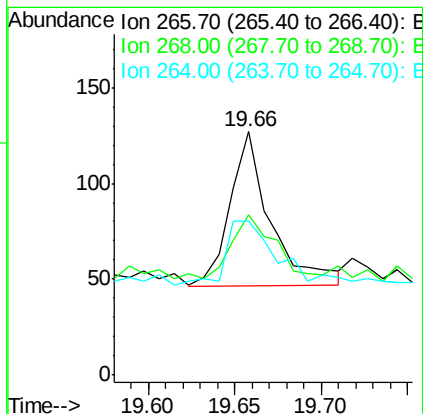
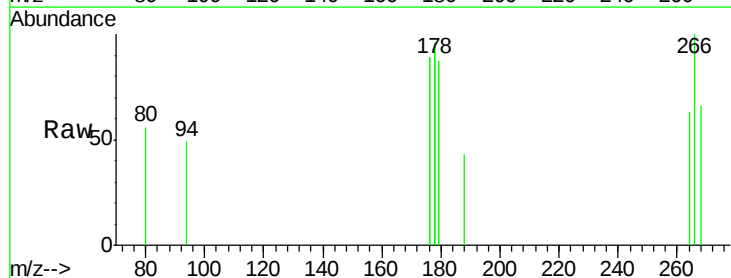
Instrument :
BNA_E
ClientSampleId :

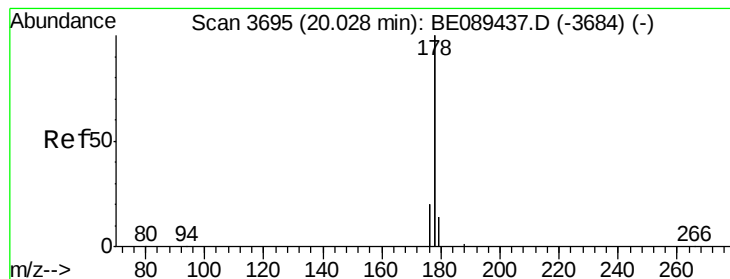
Tgt Ion:188 Resp: 208318
Ion Ratio Lower Upper
188 100
94 14.0 9.4 14.0
80 14.9 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089481.D
Acq: 31 Jan 2015 23:16

Tgt Ion:266 Resp: 132
Ion Ratio Lower Upper
266 100
268 66.1 54.2 81.4
264 63.0 56.2 84.2





#13

Phenanthrene

Concen: 0.15 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

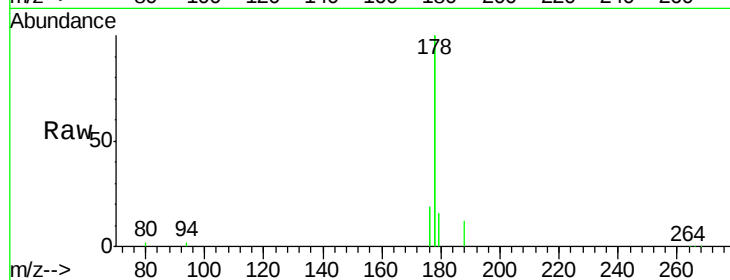
Tgt Ion:178 Resp: 30028

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

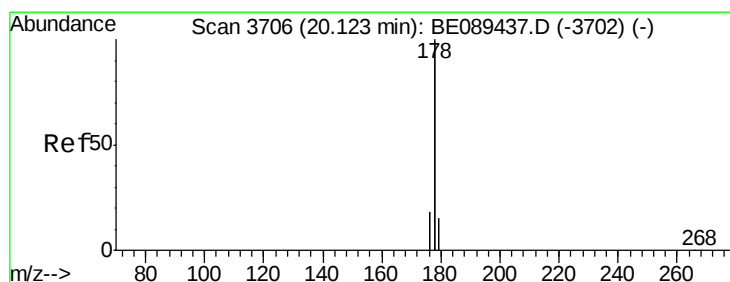
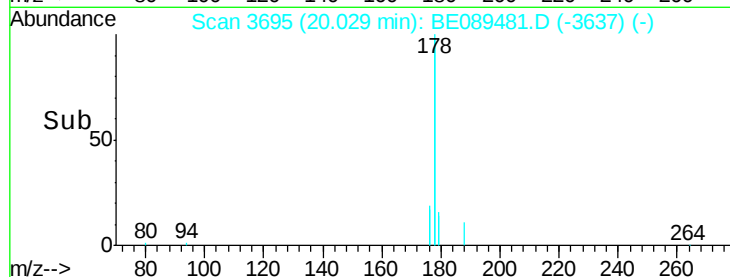
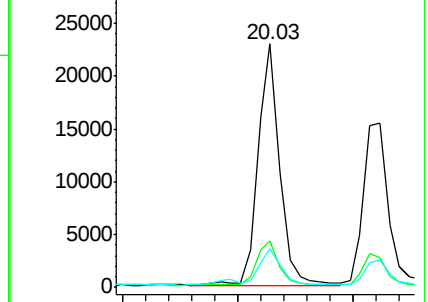
179 17.5 12.3 18.5



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: 0.13 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

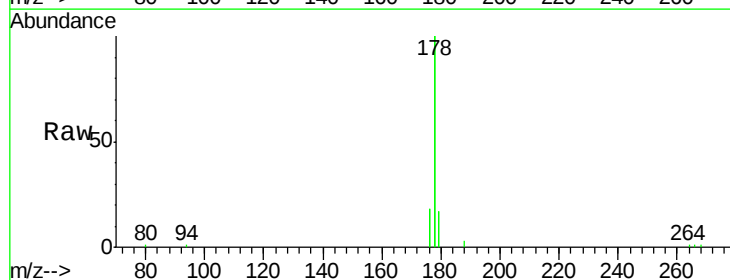
Tgt Ion:178 Resp: 23576

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

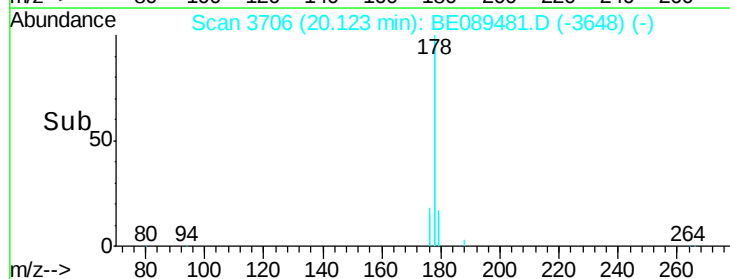
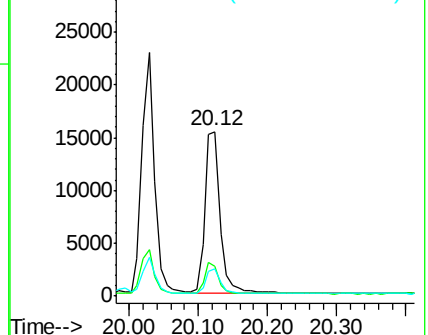
179 14.9 12.2 18.2

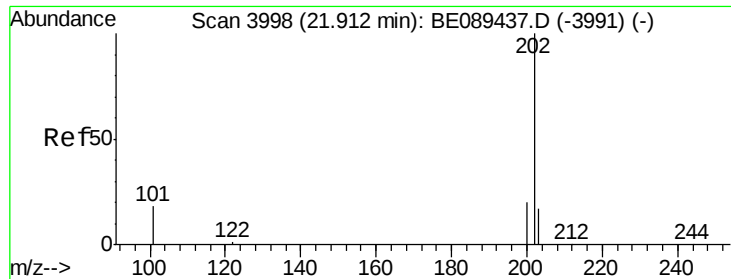


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

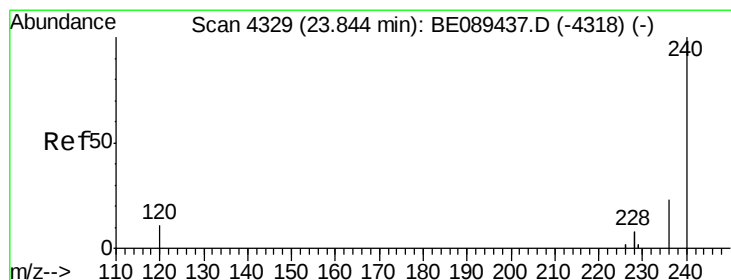
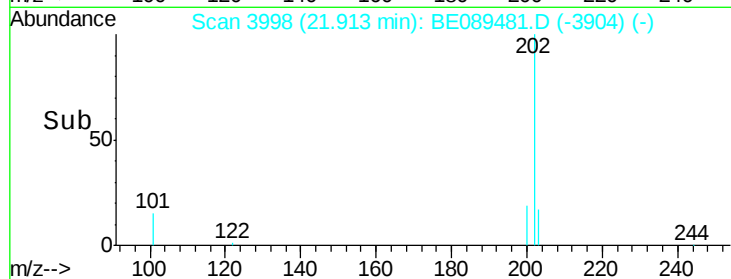
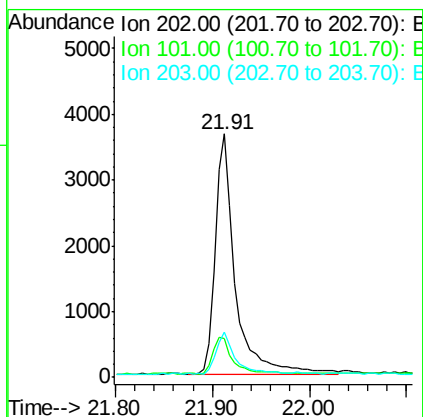
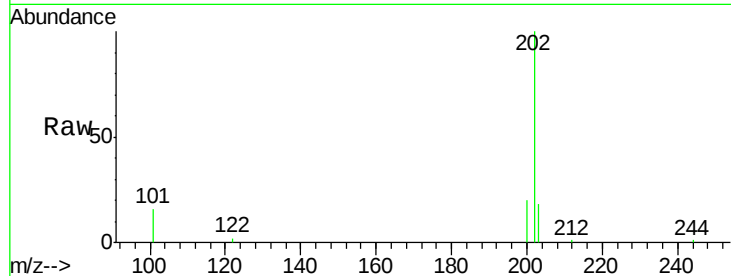




#15
Fluoranthene
Concen: 0.12 ng
RT: 21.91 min Scan# 3998
Delta R.T. 0.00 min
Lab File: BE089481.D
Acq: 31 Jan 2015 23:16

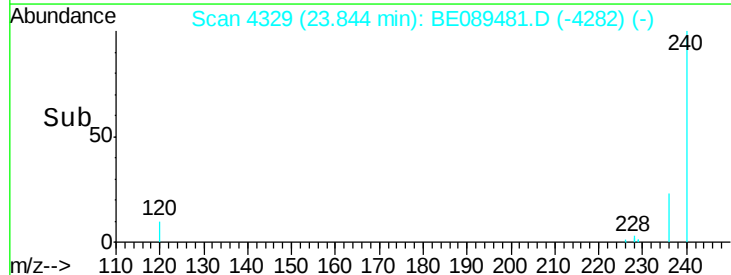
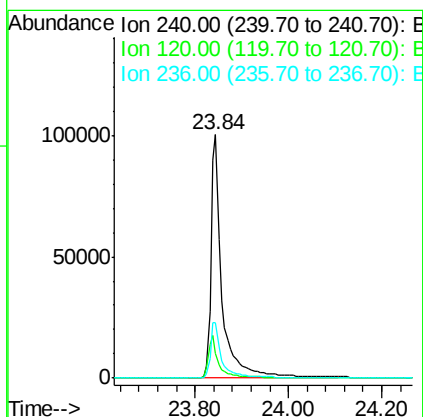
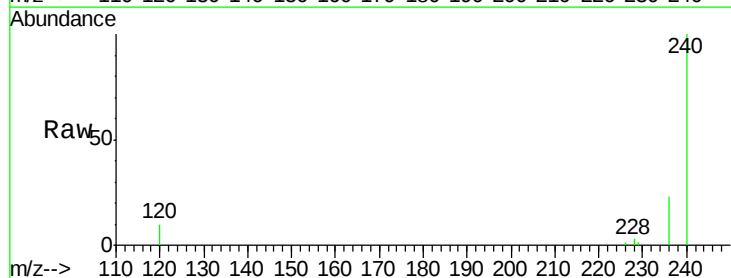
Instrument :
BNA_E
ClientSampleId :

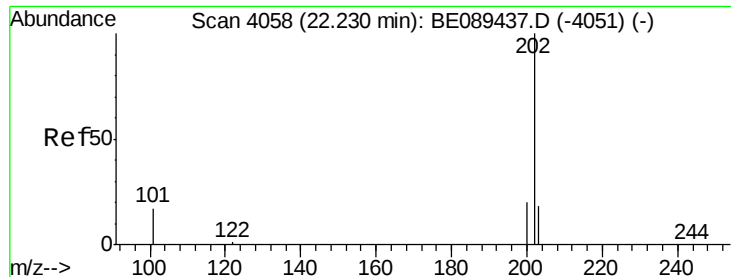
Tgt Ion: 202 Resp: 5201
Ion Ratio Lower Upper
202 100
101 15.6 13.6 20.4
203 16.0 13.8 20.6



#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.84 min Scan# 4329
Delta R.T. 0.00 min
Lab File: BE089481.D
Acq: 31 Jan 2015 23:16

Tgt Ion: 240 Resp: 165507
Ion Ratio Lower Upper
240 100
120 10.0 8.6 13.0
236 23.0 18.7 28.1

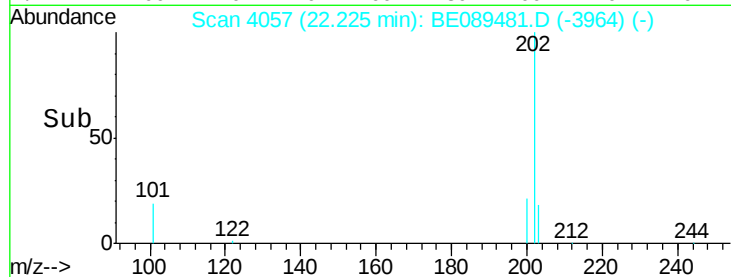
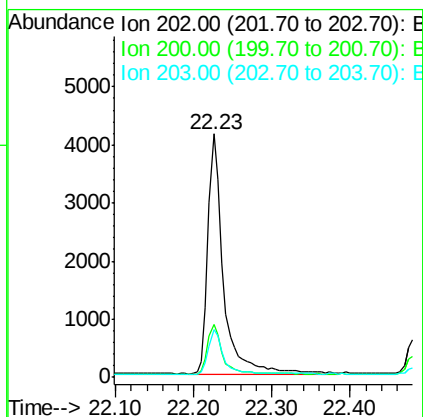
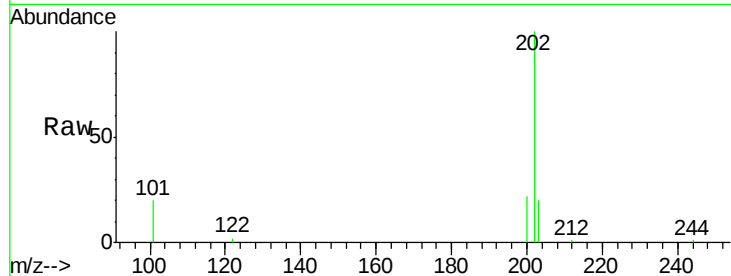




#17
 Pyrene
 Concen: 0.13 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089481.D
 Acq: 31 Jan 2015 23:16

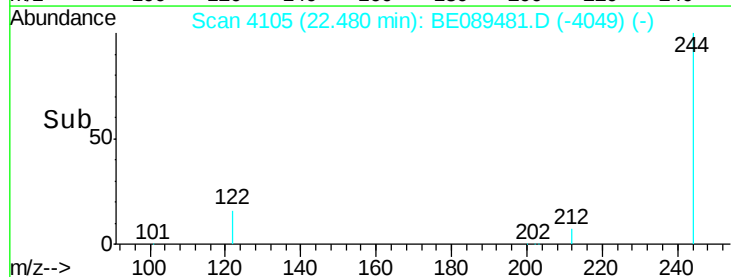
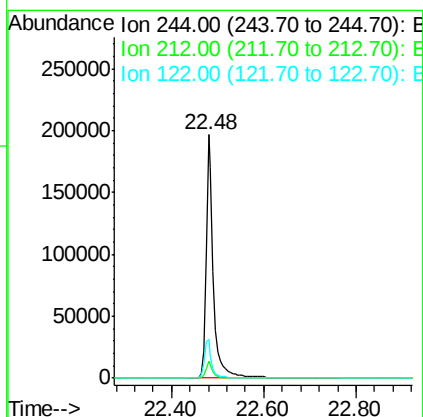
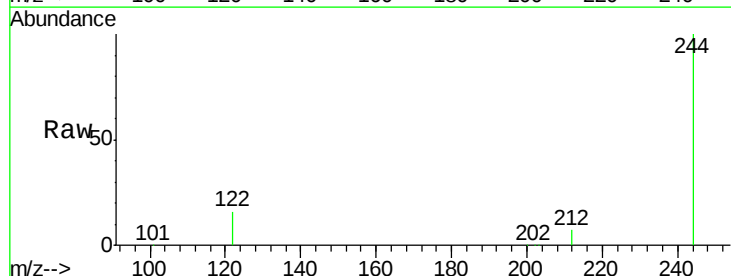
Instrument :
 BNA_E
 ClientSampled :

Tgt Ion:202 Resp: 5717
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.4
 203 18.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.20 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089481.D
 Acq: 31 Jan 2015 23:16

Tgt Ion:244 Resp: 228014
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.0 7.6
 122 16.0 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 23.84 min Scan# 4328

Delta R.T. 0.01 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

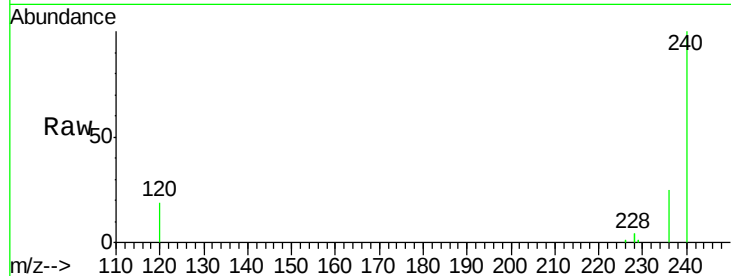
Tgt Ion:228 Resp: 12527

Ion Ratio Lower Upper

228 100

226 25.1 20.0 30.0

229 23.4 16.0 24.0

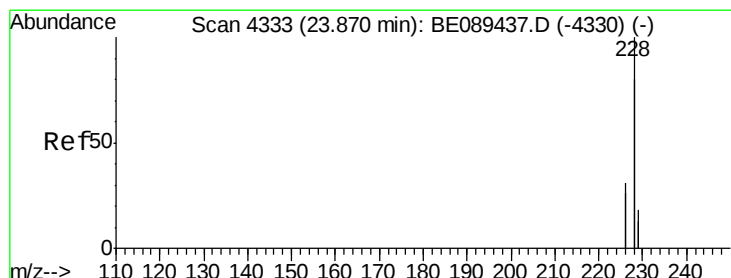
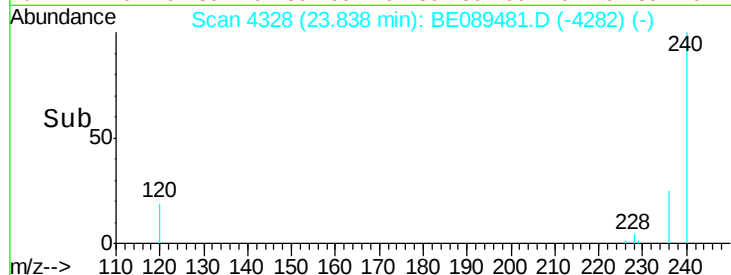
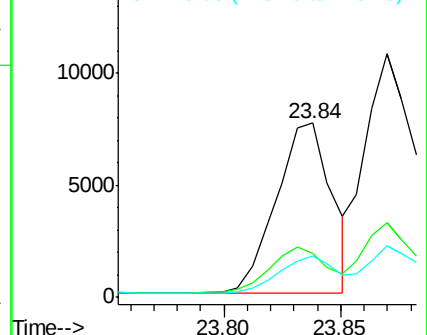


Abundance

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: 0.17 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

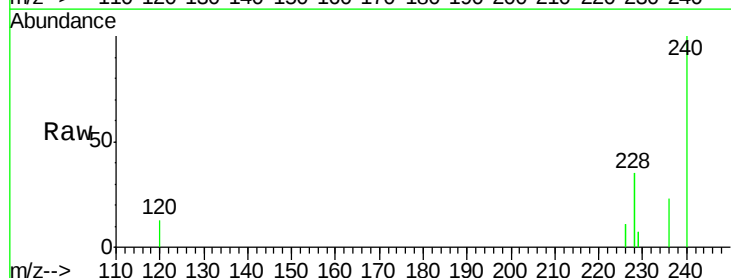
Tgt Ion:228 Resp: 26251

Ion Ratio Lower Upper

228 100

226 30.5 24.5 36.7

229 21.1 14.1 21.1

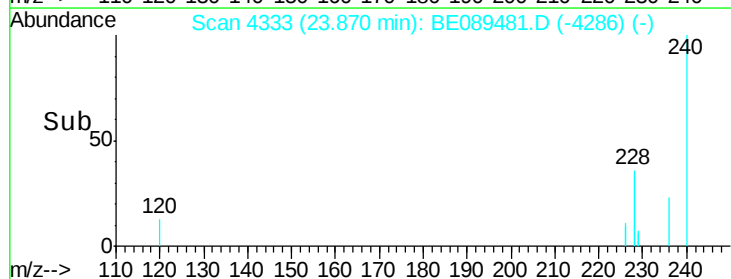
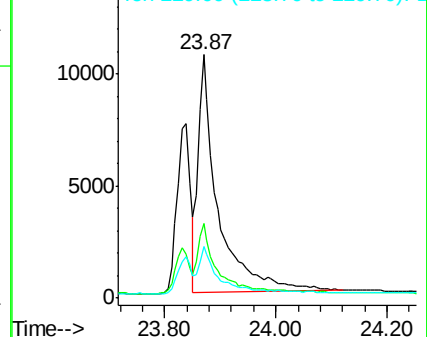


Abundance

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: 0.02 ng

RT: 27.05 min Scan# 4948

Delta R.T. -0.01 min

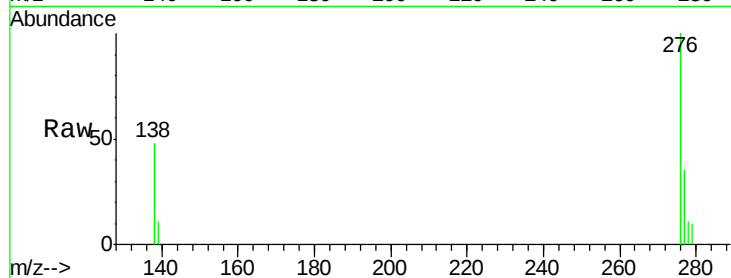
Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

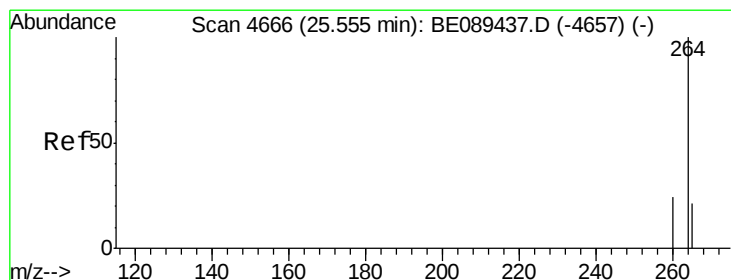
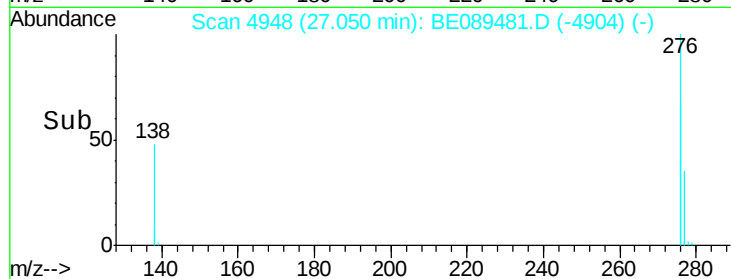
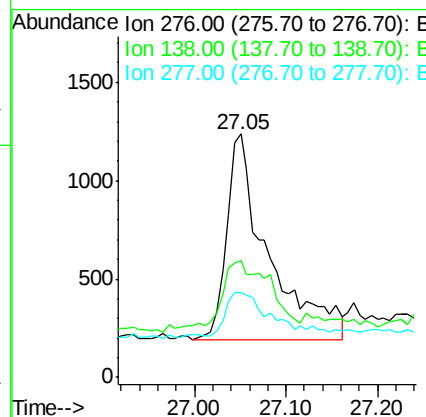
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	3288
Ion	Ratio	Lower	Upper
276	100		
138	40.6	25.4	38.0#
277	23.9	19.8	29.6



#22

Perylene-d12

Concen: 5.00 ng

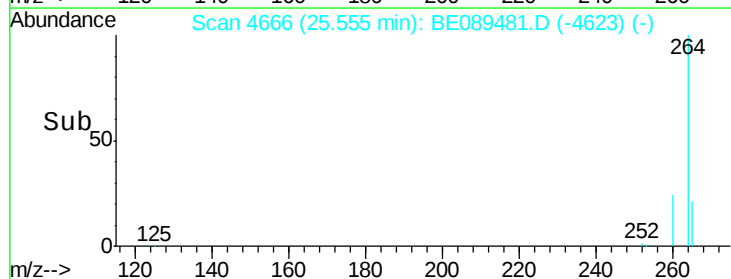
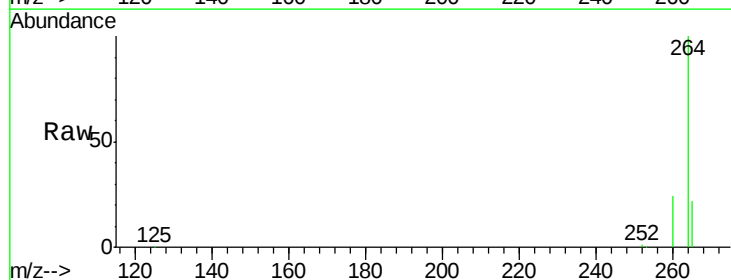
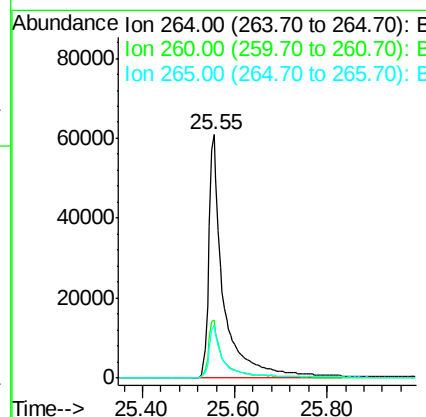
RT: 25.55 min Scan# 4666

Delta R.T. 0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Tgt Ion:	264	Resp:	135696
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: 25.09 min Scan# 4565

Delta R.T. -0.00 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

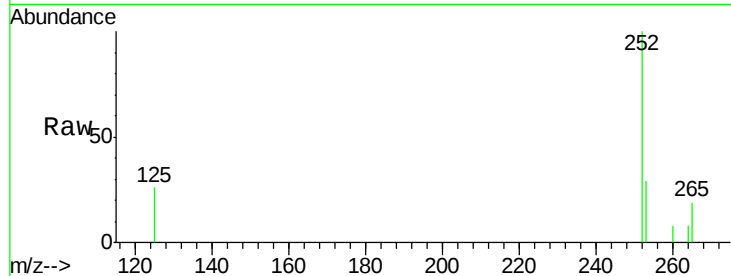
Tgt Ion:252 Resp: 775

Ion Ratio Lower Upper

252 100

253 28.7 17.0 25.6#

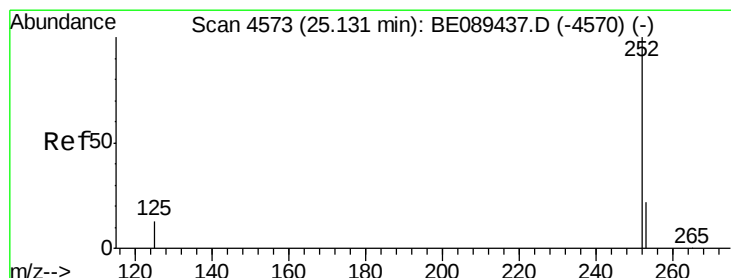
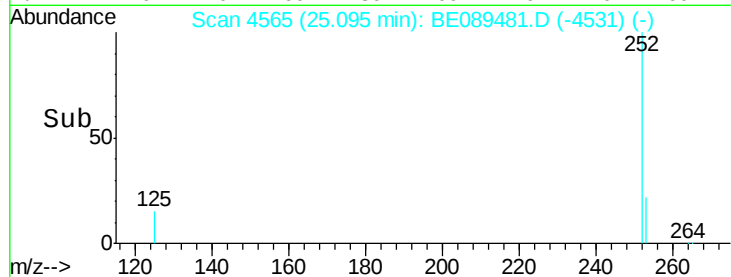
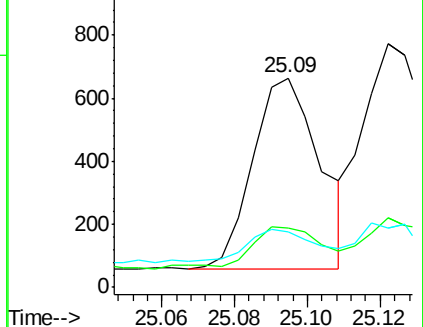
125 26.2 11.4 17.0#



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



#24

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 25.12 min Scan# 4571

Delta R.T. -0.01 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

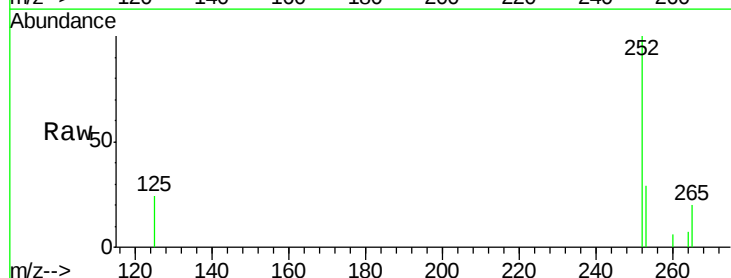
Tgt Ion:252 Resp: 1119

Ion Ratio Lower Upper

252 100

253 28.8 17.4 26.2#

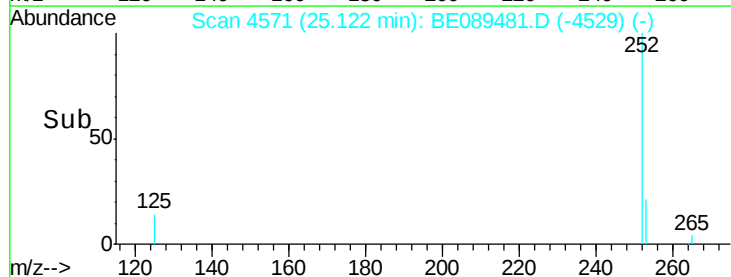
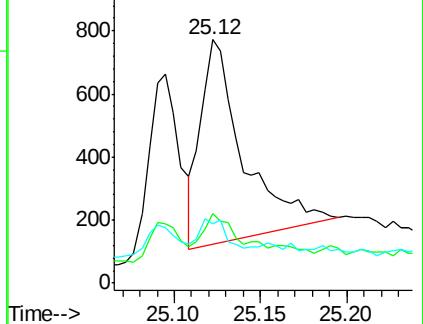
125 24.5 10.9 16.3#



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





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.01 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :

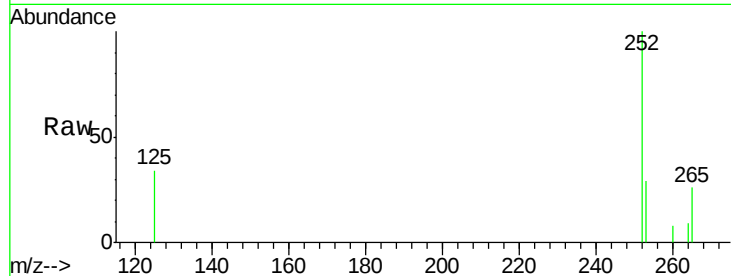
Tgt Ion: 252 Resp: 916

Ion Ratio Lower Upper

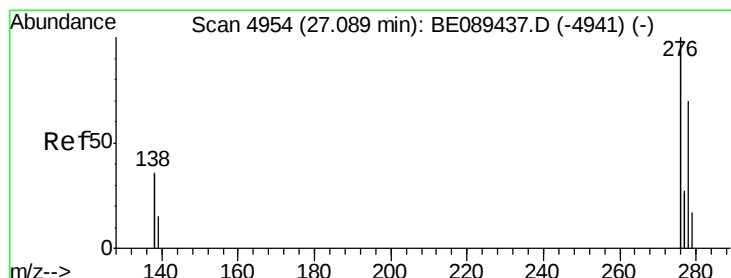
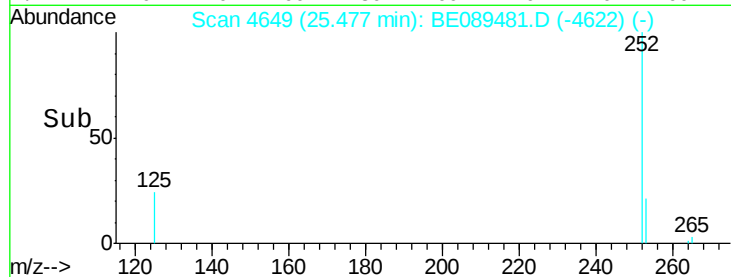
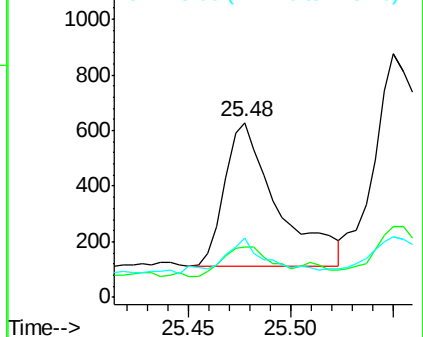
252 100

253 28.8 17.3 25.9#

125 34.1 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# 4953

Delta R.T. -0.01 min

Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

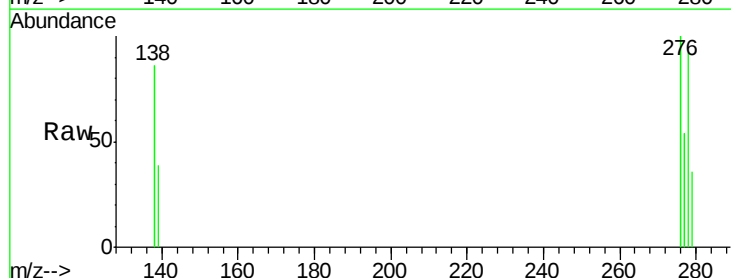
Tgt Ion: 278 Resp: 616

Ion Ratio Lower Upper

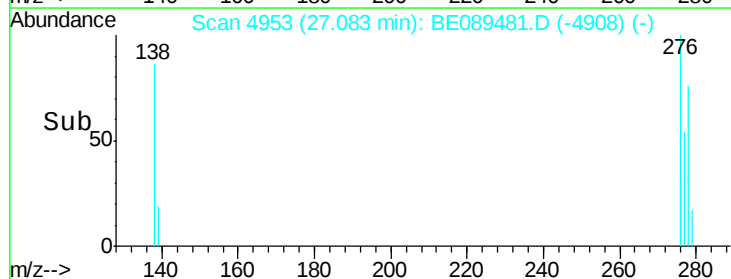
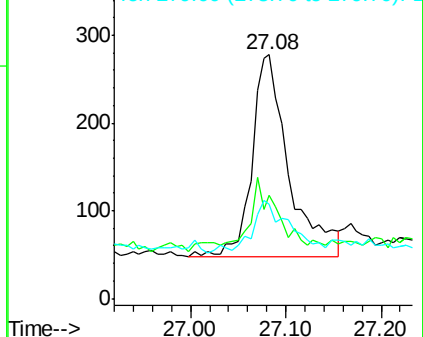
278 100

139 42.4 17.0 25.4#

279 38.8 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# 5017

Delta R.T. -0.01 min

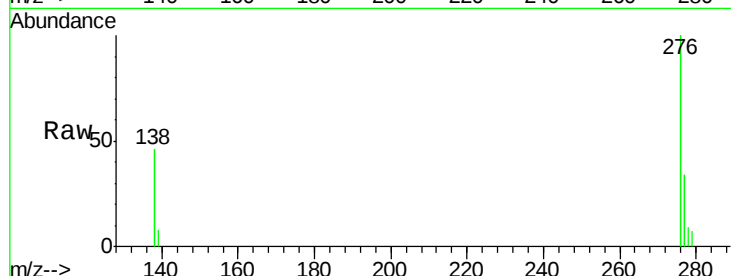
Lab File: BE089481.D

Acq: 31 Jan 2015 23:16

Instrument :

BNA_E

ClientSampleId :



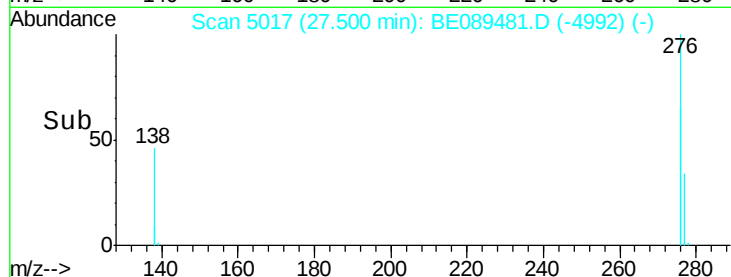
Tgt Ion: 276 Resp: 4325

Ion Ratio Lower Upper

276 100

277 33.9 18.4 27.6#

138 46.3 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

