

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089472.D
 Acq On : 31 Jan 2015 16:09
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:52:37 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	72838	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	288271	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	123455	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	227651	5.00	ng	0.00
16) Chrysene-d12	23.84	240	196201	5.00	ng	0.00
22) Perylene-d12	25.55	264	168337	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	22039	1.15	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	33027	1.02	ng	0.00
18) Terphenyl-d14	22.48	244	30329	1.03	ng	0.00

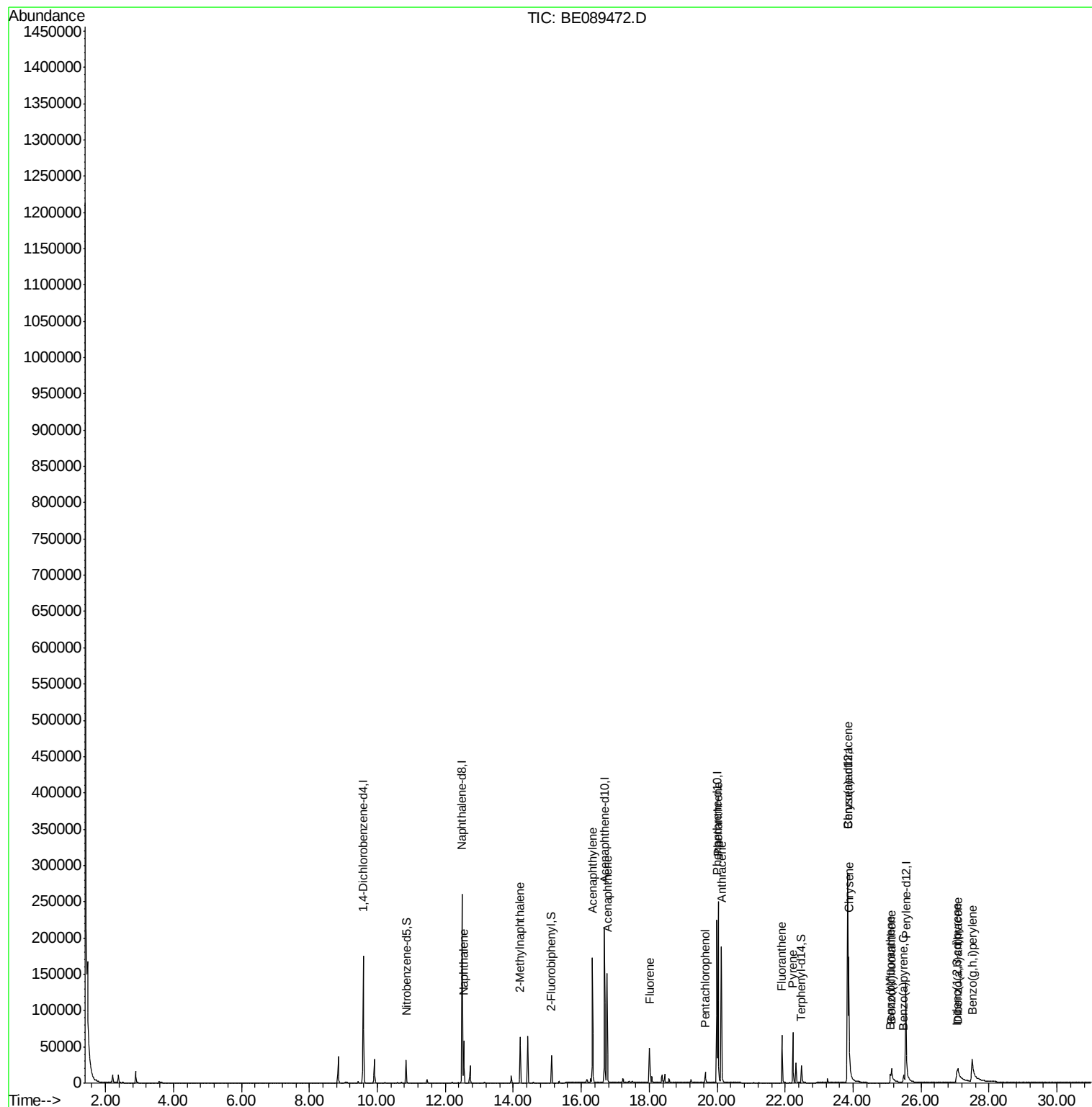
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	67486	1.00	ng	99
5) 2-Methylnaphthalene	14.20	142	39235	0.96	ng	98
8) Acenaphthylene	16.34	152	217161	0.98	ng	100
9) Acenaphthene	16.76	154	33090	0.99	ng	98
10) Fluorene	18.02	166	36209	0.98	ng	100
12) Pentachlorophenol	19.66	266	9564	5.61	ng	93
13) Phenanthrene	20.03	178	222769	1.00	ng	100
14) Anthracene	20.12	178	198040	0.97	ng	99
15) Fluoranthene	21.91	202	49667	1.02	ng	99
17) Pyrene	22.22	202	53192	1.02	ng	99
19) Benzo(a)anthracene	23.83	228	145276	0.88	ng	99
20) Chrysene	23.87	228	196702	1.06	ng	95
21) Indeno(1,2,3-cd)pyrene	27.06	276	82957	0.51	ng	# 79
23) Benzo(b)fluoranthene	25.10	252	11690	0.56	ng	99
24) Benzo(k)fluoranthene	25.13	252	48611	1.13	ng	99
25) Benzo(a)pyrene	25.48	252	16883	0.66	ng	98
26) Dibenzo(a,h)anthracene	27.08	278	12420	0.48	ng	96
27) Benzo(g,h,i)perylene	27.51	276	101911	0.76	ng	99

(#) = 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: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :

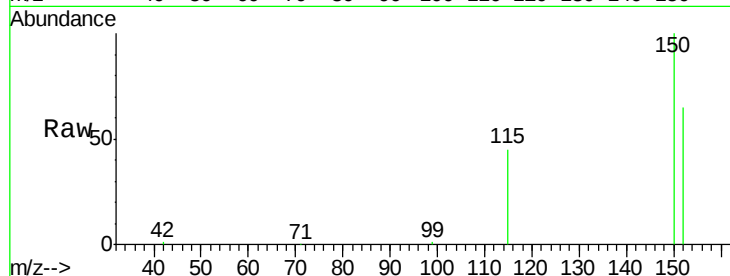
Tgt Ion:152 Resp: 72838

Ion Ratio Lower Upper

152 100

150 153.0 127.2 190.8

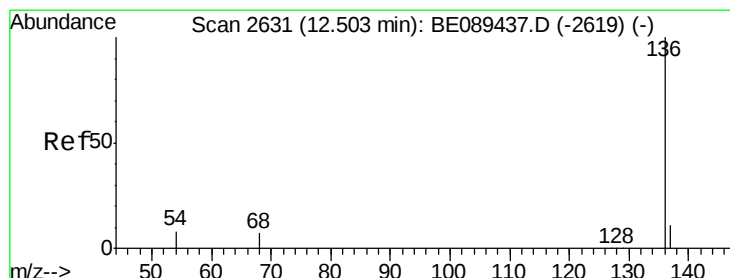
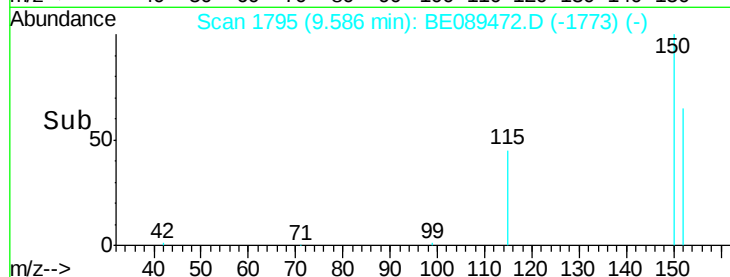
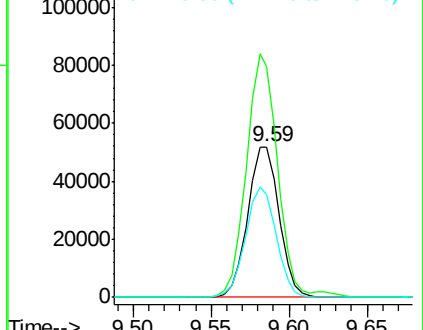
115 68.3 57.5 86.3



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: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

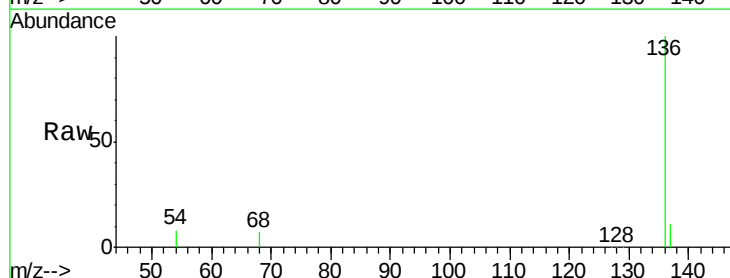
Tgt Ion:136 Resp: 288271

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

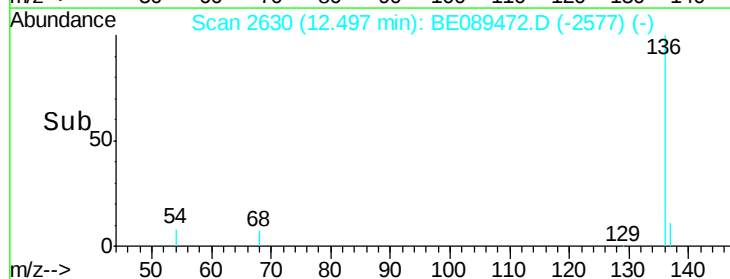
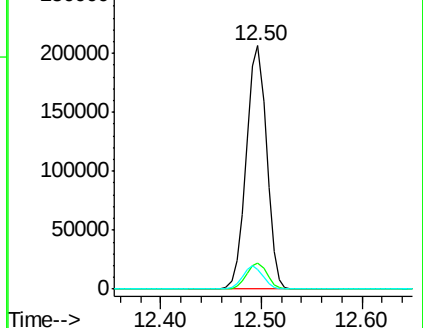
54 8.1 6.6 10.0



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: 1.15 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.01 min

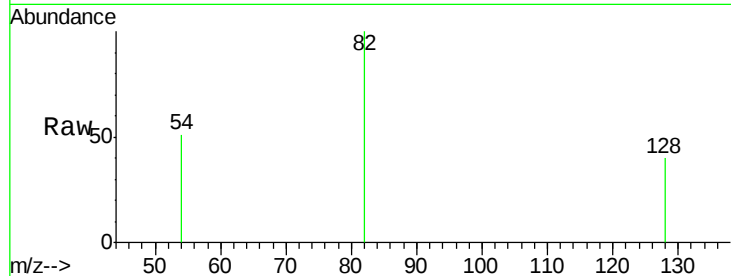
Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :



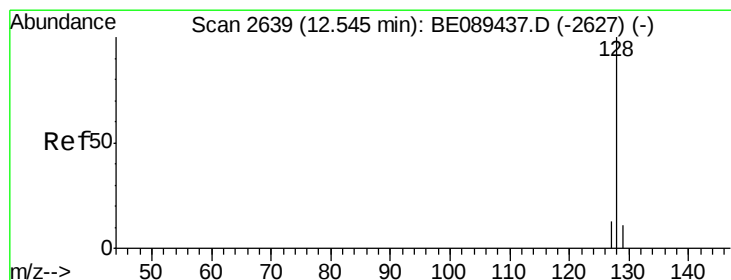
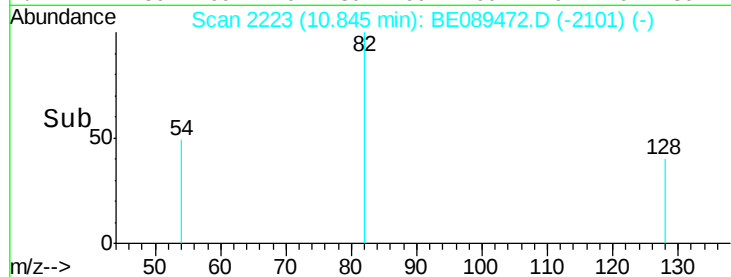
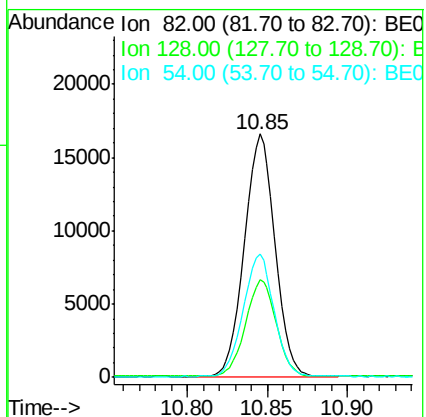
Tgt Ion: 82 Resp: 22039

Ion	Ratio	Lower	Upper
82	100		
128	40.2	31.2	46.8
54	50.9	41.9	62.9

82 100

128 40.2 31.2 46.8

54 50.9 41.9 62.9



#4

Naphthalene

Concen: 1.00 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

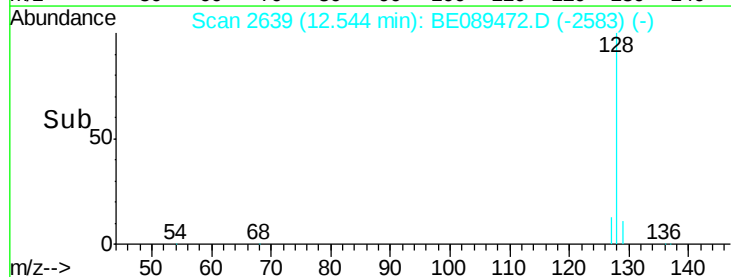
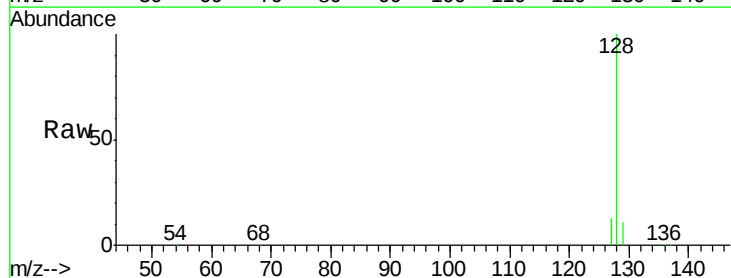
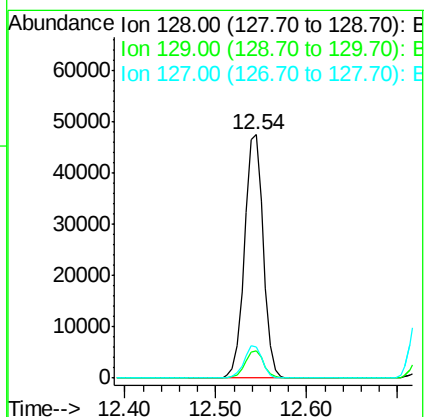
Tgt Ion: 128 Resp: 67486

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.7	10.6	16.0

128 100

129 11.0 8.8 13.2

127 12.7 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.96 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089472.D

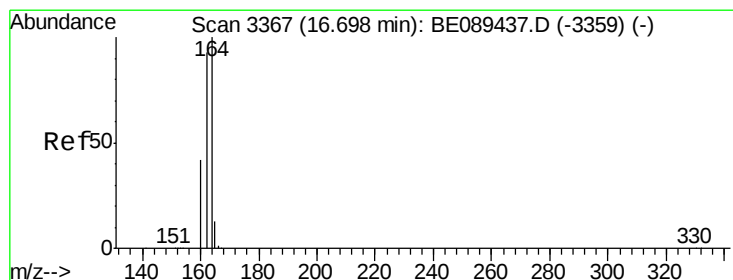
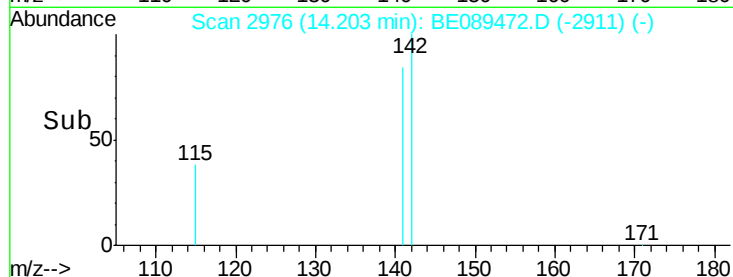
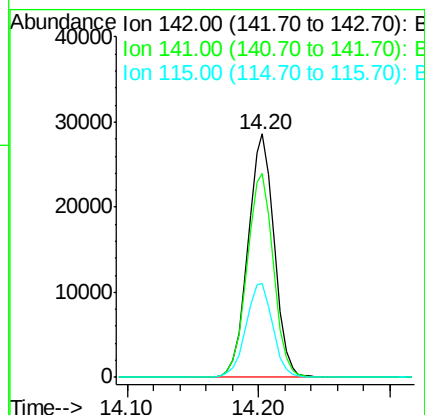
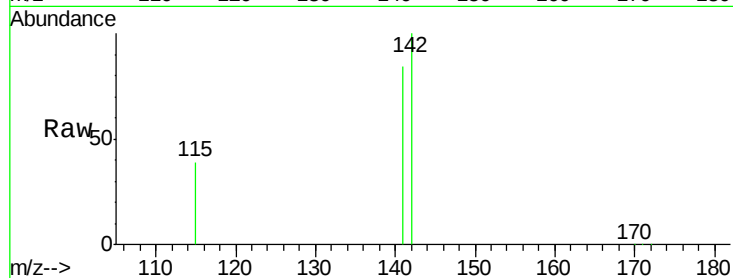
Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	39235
Ion	Ratio	Lower	Upper
142	100		
141	83.7	66.1	99.1
115	38.6	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

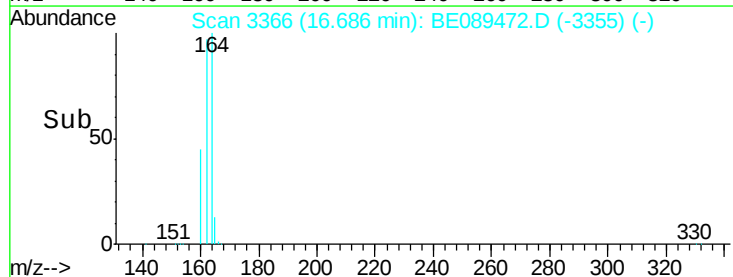
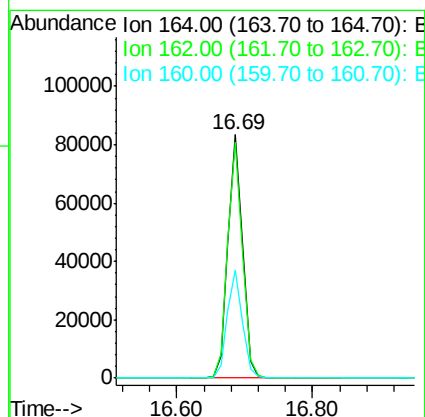
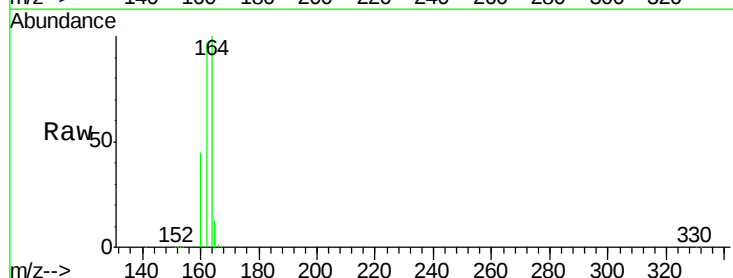
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Tgt Ion:	164	Resp:	123455
Ion	Ratio	Lower	Upper
164	100		
162	96.7	74.7	112.1
160	44.6	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 1.02 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :

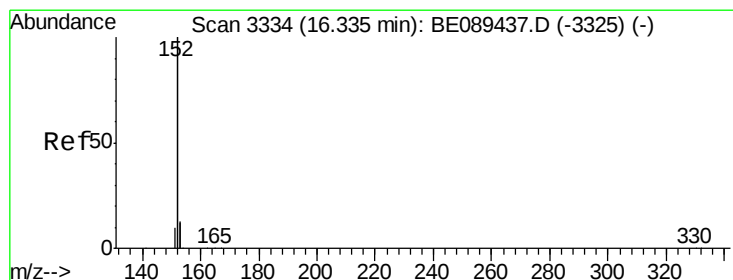
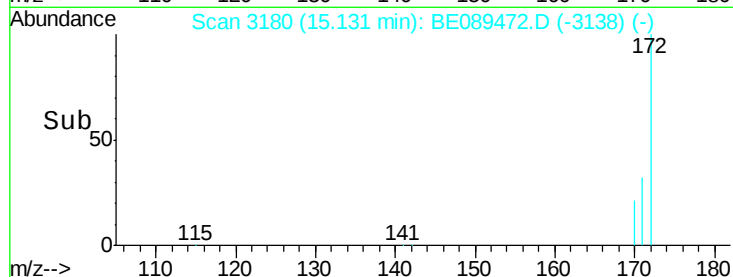
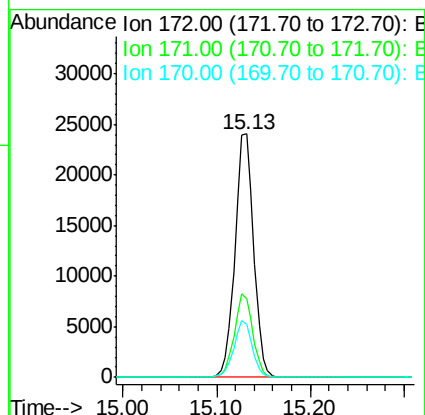
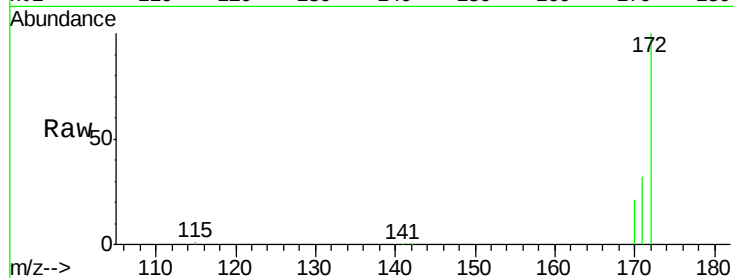
Tgt Ion:172 Resp: 33027

Ion Ratio Lower Upper

172 100

171 32.4 26.2 39.4

170 21.5 16.5 24.7



#8

Acenaphthylene

Concen: 0.98 ng

RT: 16.34 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

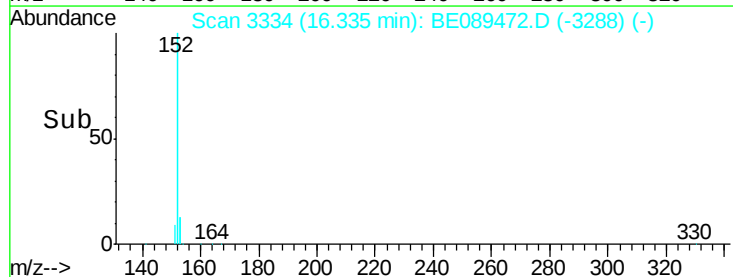
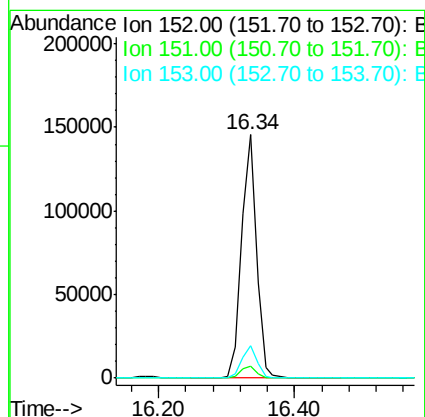
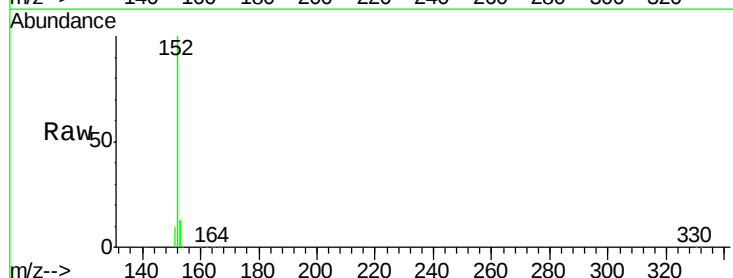
Tgt Ion:152 Resp: 217161

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 13.0 10.3 15.5





#9

Acenaphthene

Concen: 0.99 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :

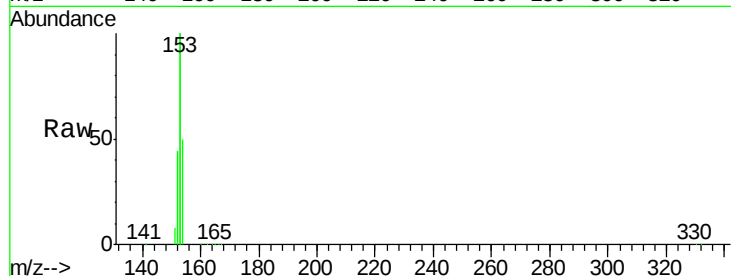
Tgt Ion:154 Resp: 33090

Ion Ratio Lower Upper

154 100

153 431.5 342.3 513.5

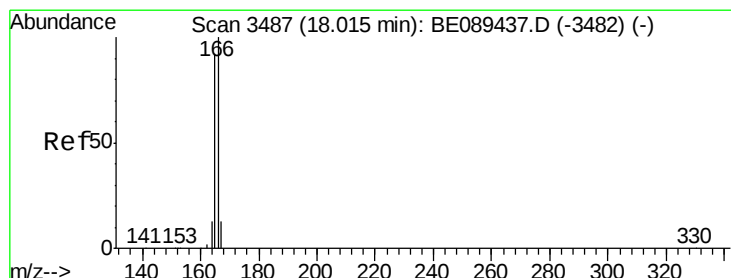
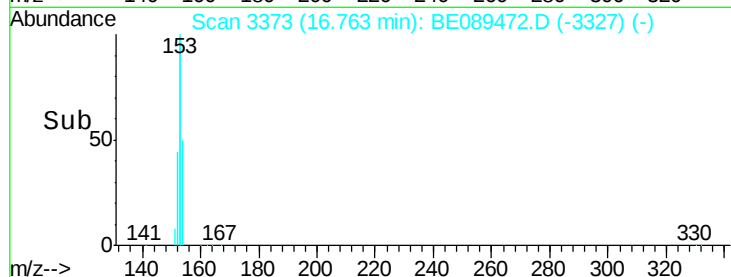
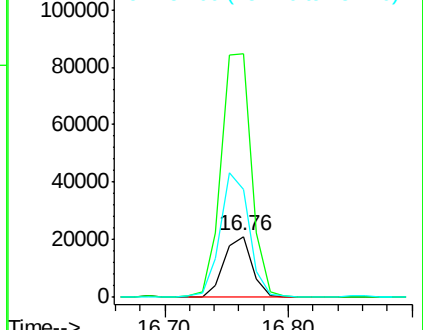
152 209.5 165.5 248.3



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: 0.98 ng

RT: 18.02 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

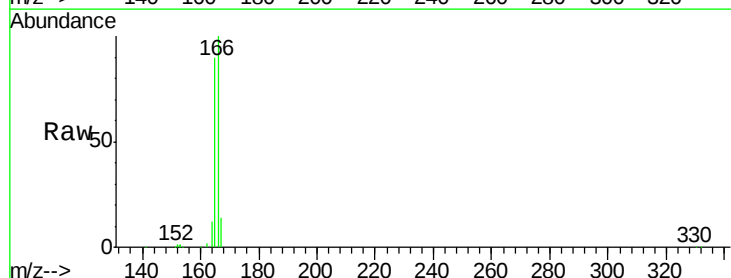
Tgt Ion:166 Resp: 36209

Ion Ratio Lower Upper

166 100

165 93.5 74.4 111.6

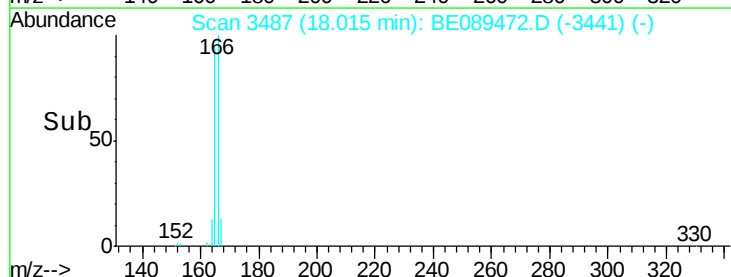
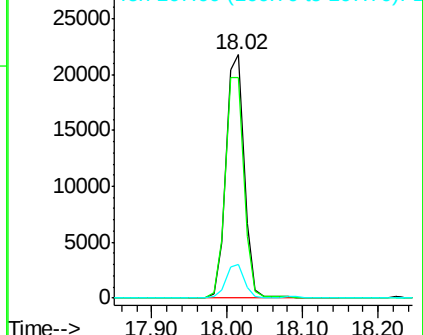
167 13.3 10.6 15.8



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

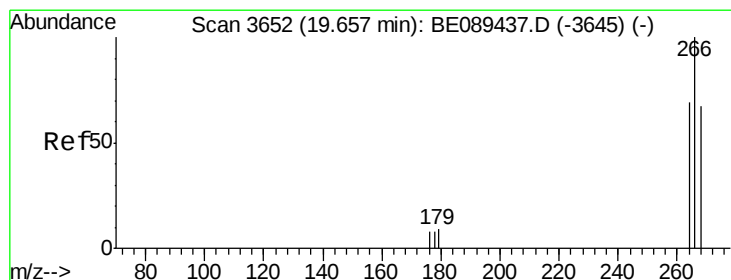
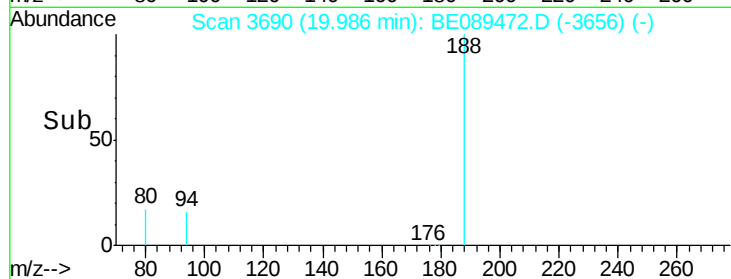
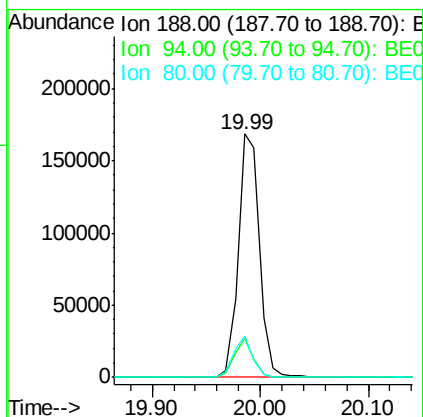
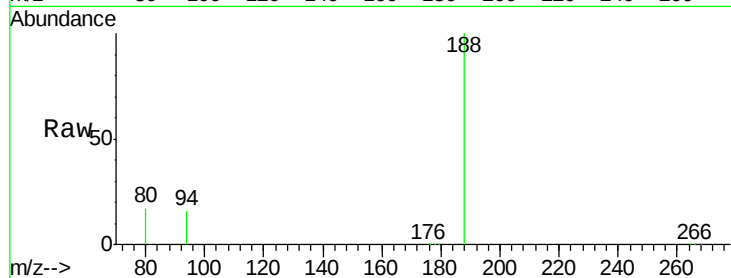




#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3690
 Delta R.T. -0.01 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

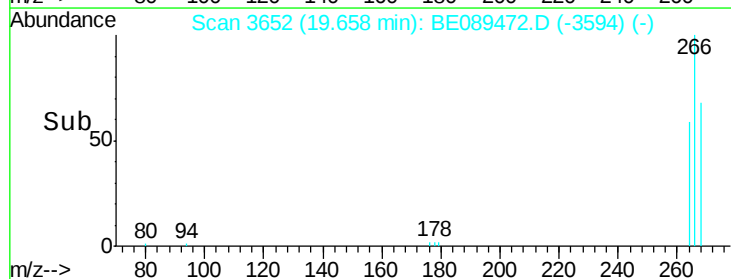
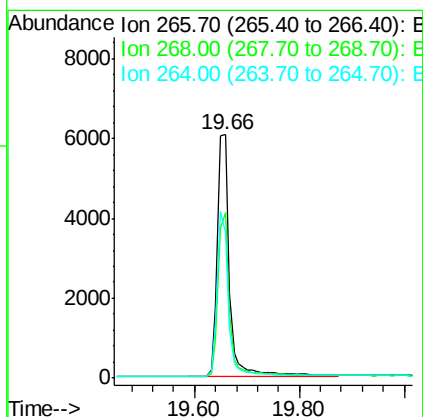
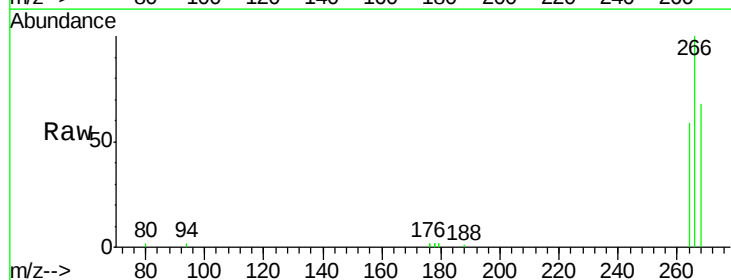
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:188 Resp: 227651
 Ion Ratio Lower Upper
 188 100
 94 15.8 9.4 14.0#
 80 16.9 9.3 13.9#



#12
 Pentachlorophenol
 Concen: 5.61 ng
 RT: 19.66 min Scan# 3652
 Delta R.T. 0.00 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

Tgt Ion:266 Resp: 9564
 Ion Ratio Lower Upper
 266 100
 268 68.0 54.2 81.4
 264 59.4 56.2 84.2





#13

Phenanthrene

Concen: 1.00 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :

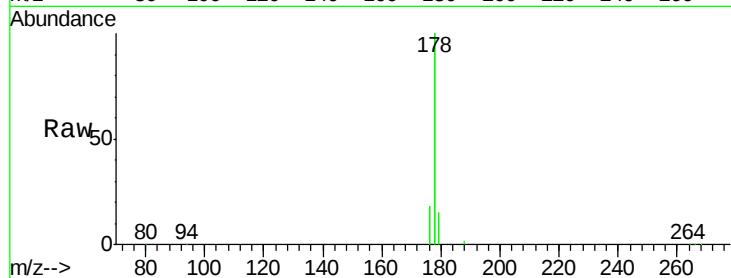
Tgt Ion:178 Resp: 222769

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

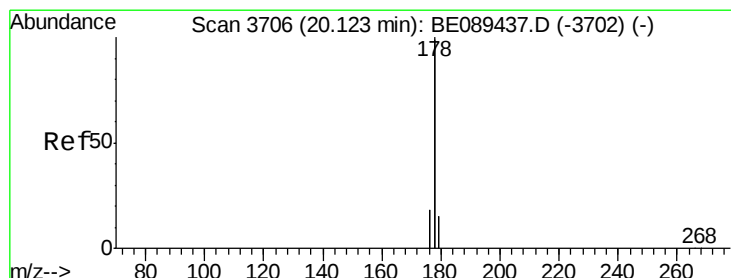
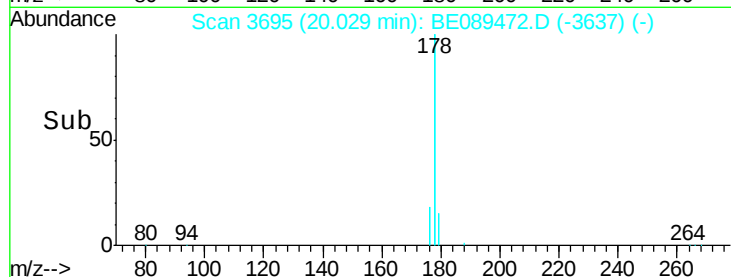
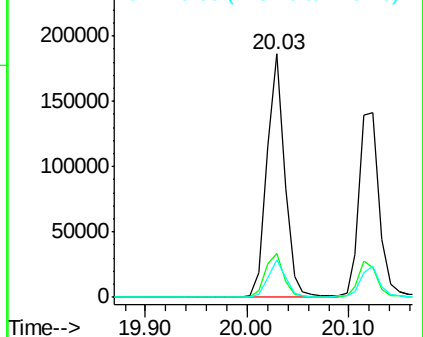
179 15.3 12.3 18.5



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: 0.97 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

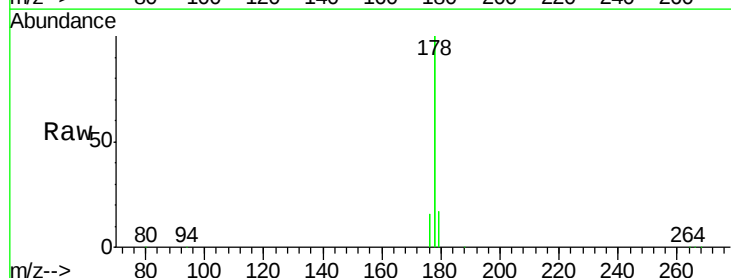
Tgt Ion:178 Resp: 198040

Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

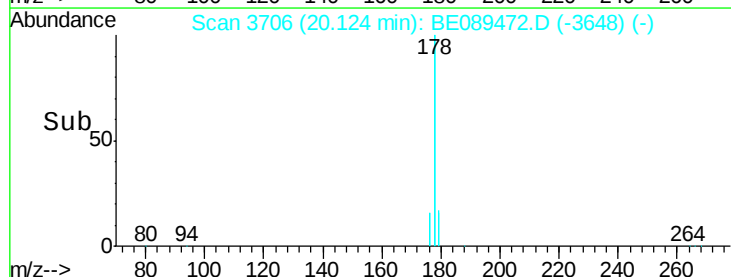
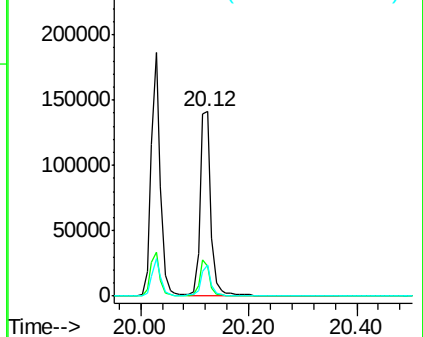
179 15.6 12.2 18.2

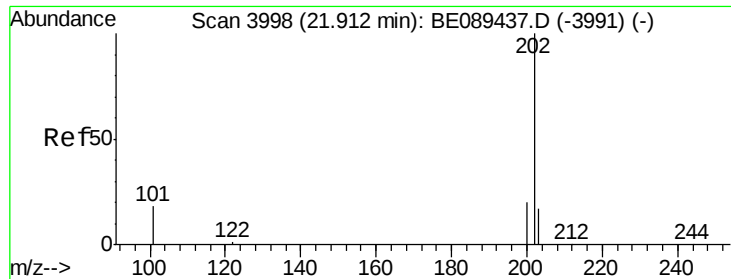


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

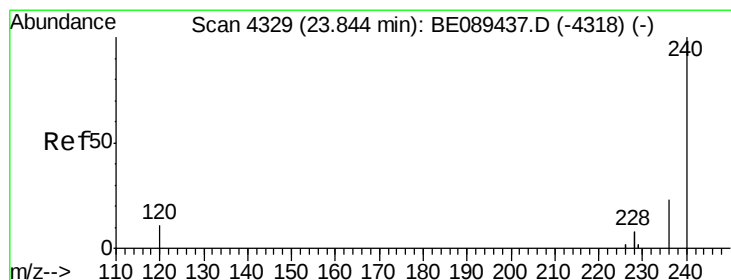
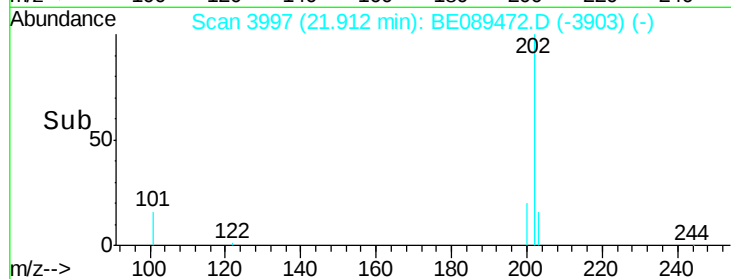
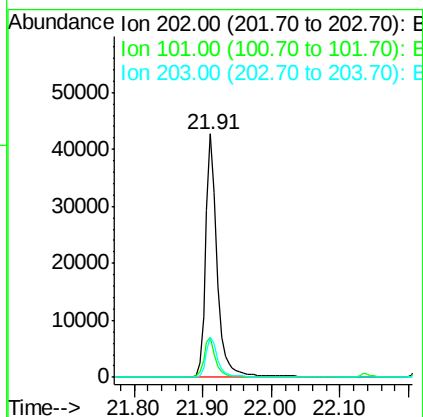
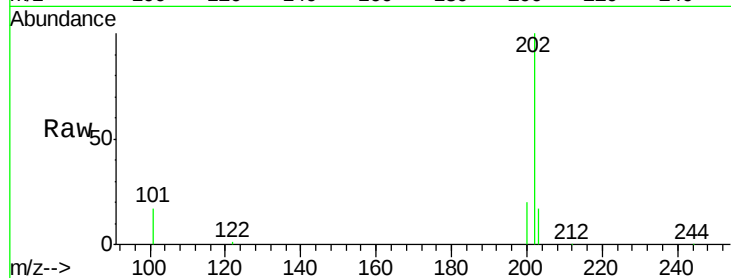




#15
 Fluoranthene
 Concen: 1.02 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

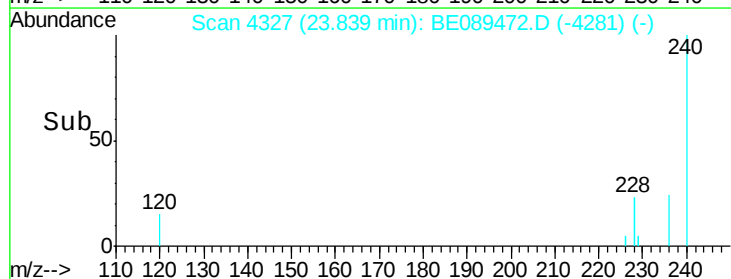
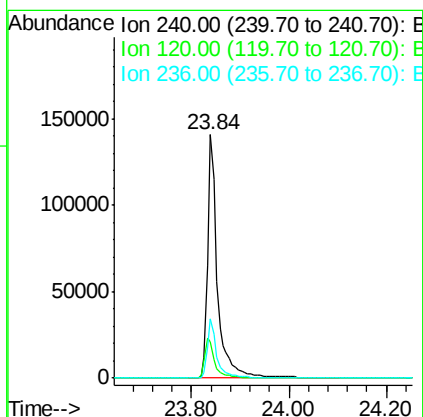
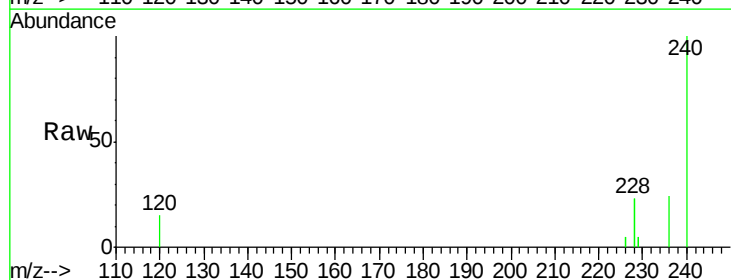
Instrument :
 BNA_E
 ClientSampled :

Tgt Ion: 202 Resp: 49667
 Ion Ratio Lower Upper
 202 100
 101 16.5 13.6 20.4
 203 16.9 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

Tgt Ion: 240 Resp: 196201
 Ion Ratio Lower Upper
 240 100
 120 14.9 8.6 13.0#
 236 24.4 18.7 28.1

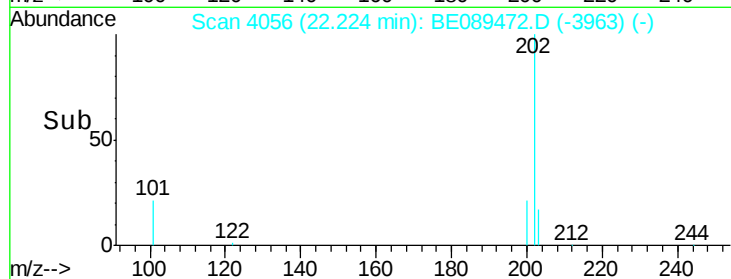
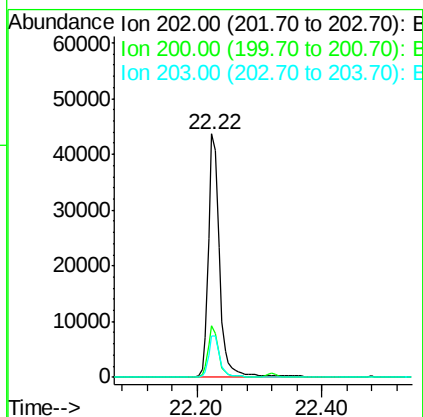
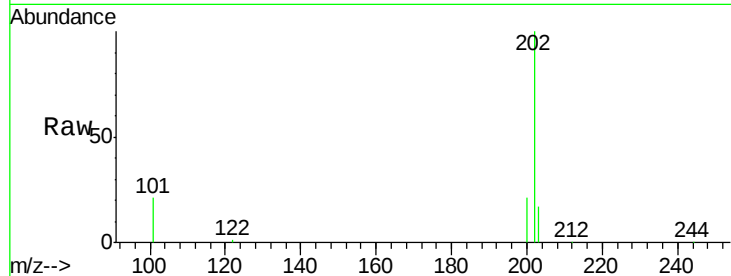




#17
 Pyrene
 Concen: 1.02 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

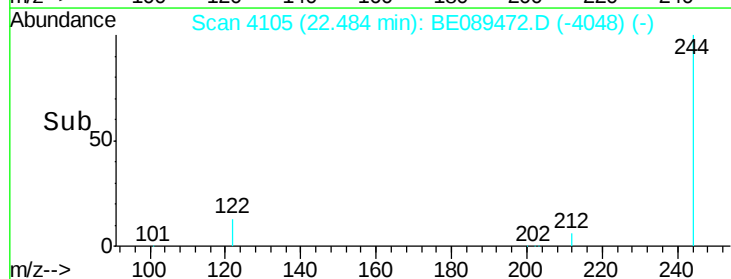
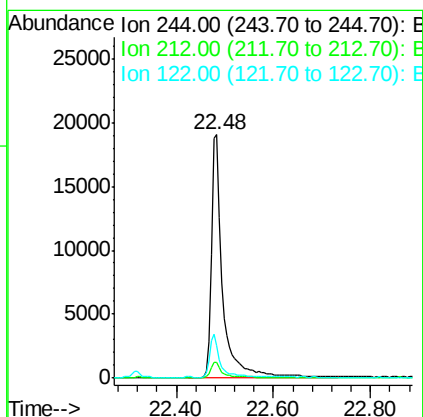
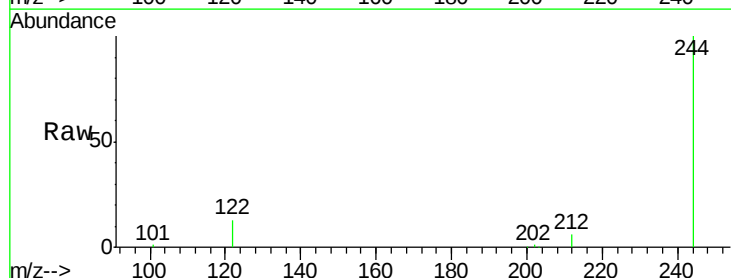
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 53192
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.2 24.4
 203 16.9 13.8 20.8



#18
 Terphenyl-d14
 Concen: 1.03 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

Tgt Ion:244 Resp: 30329
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.0 7.6
 122 13.2 10.2 15.4





#19

Benzo(a)anthracene

Concen: 0.88 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :

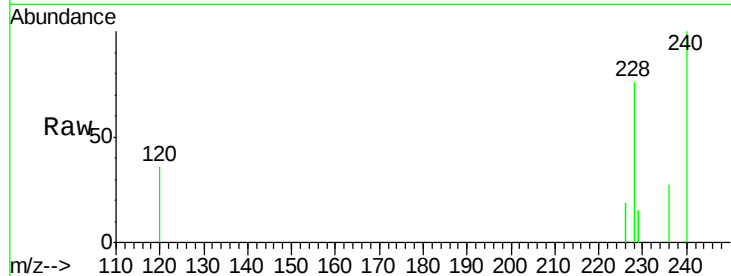
Tgt Ion:228 Resp: 145276

Ion Ratio Lower Upper

228 100

226 24.6 20.0 30.0

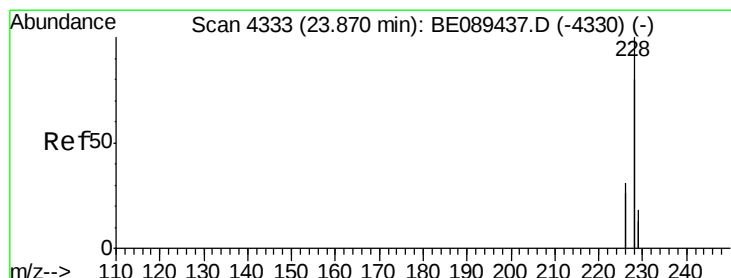
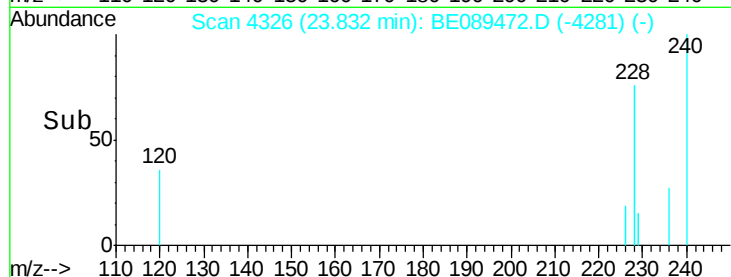
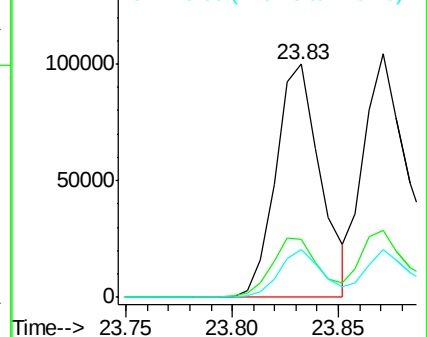
229 20.2 16.0 24.0



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: 1.06 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

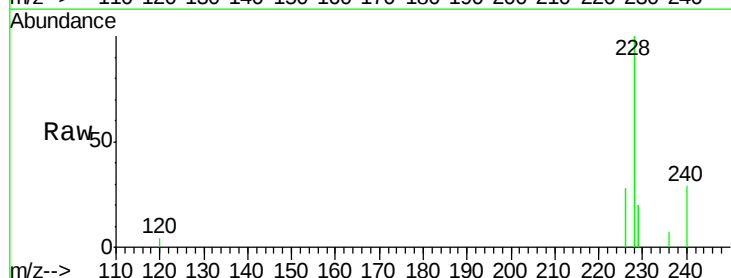
Tgt Ion:228 Resp: 196702

Ion Ratio Lower Upper

228 100

226 27.8 24.5 36.7

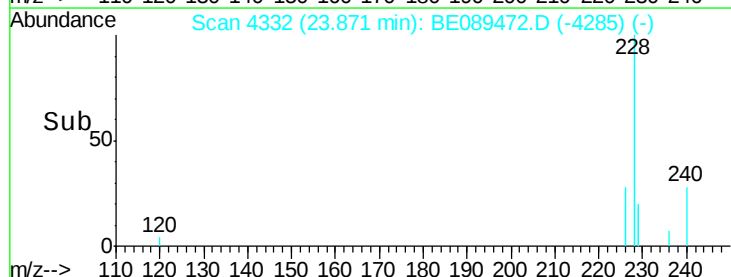
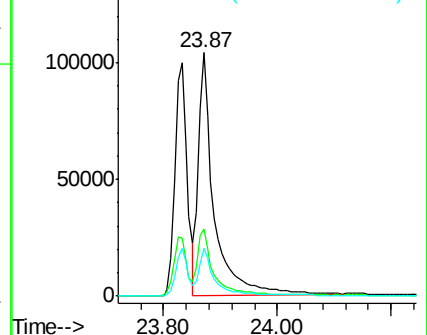
229 19.6 14.1 21.1



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

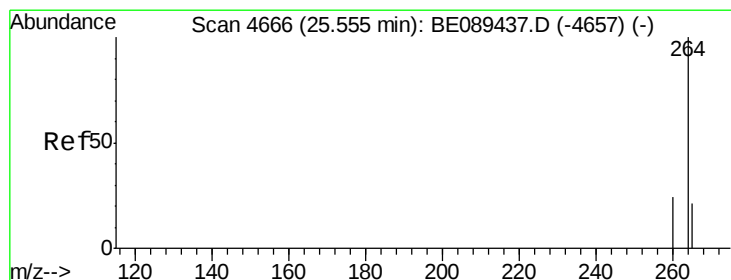
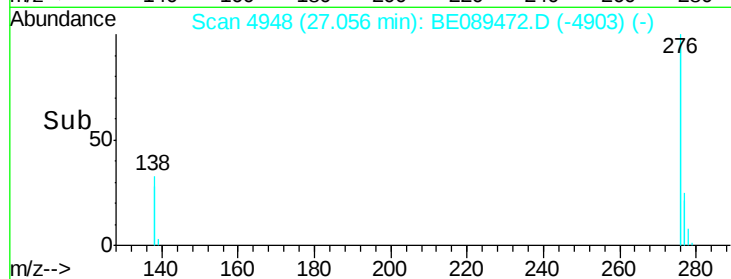
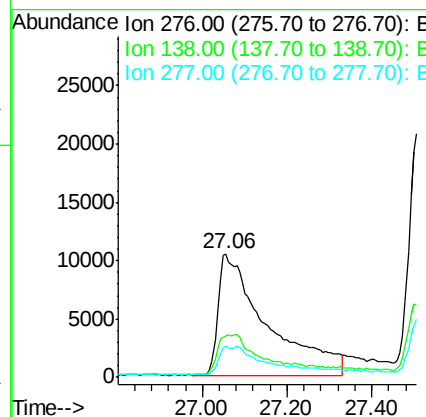
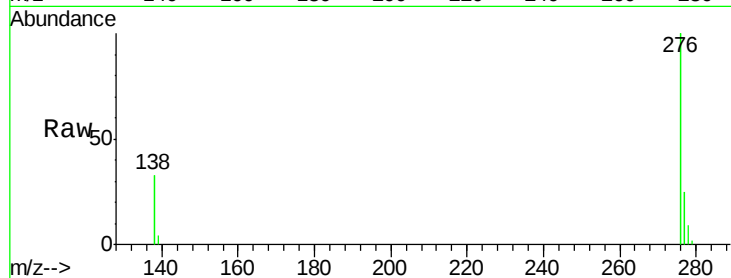




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.51 ng
 RT: 27.06 min Scan# 4948
 Delta R.T. -0.01 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

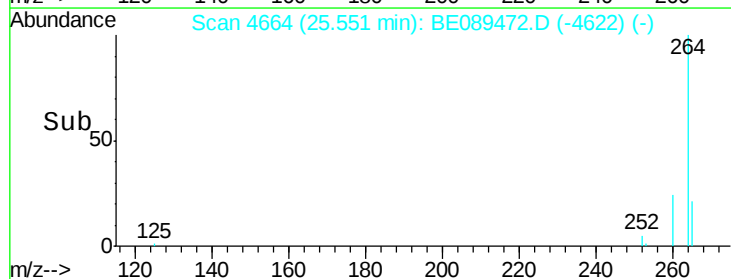
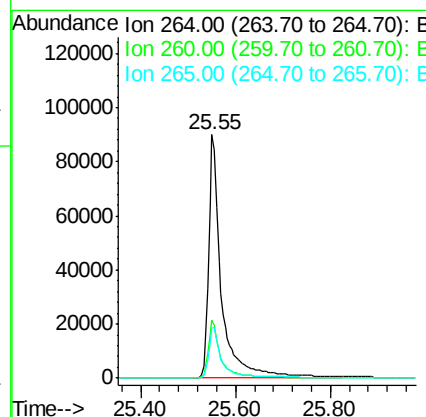
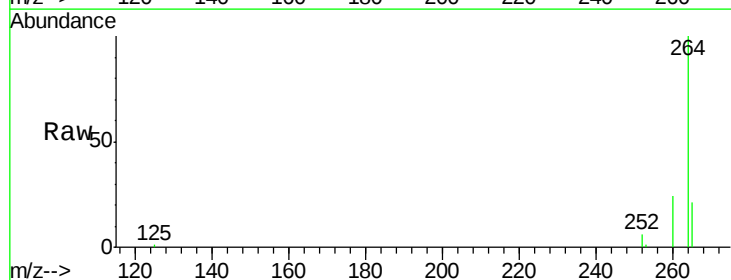
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 82957
 Ion Ratio Lower Upper
 276 100
 138 26.4 25.4 38.0
 277 6.4 19.8 29.6#



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4664
 Delta R.T. -0.00 min
 Lab File: BE089472.D
 Acq: 31 Jan 2015 16:09

Tgt Ion: 264 Resp: 168337
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.4 29.0
 265 20.8 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.56 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :

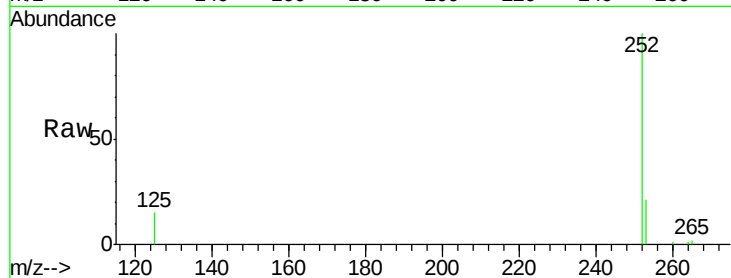
Tgt Ion:252 Resp: 11690

Ion Ratio Lower Upper

252 100

253 21.1 17.0 25.6

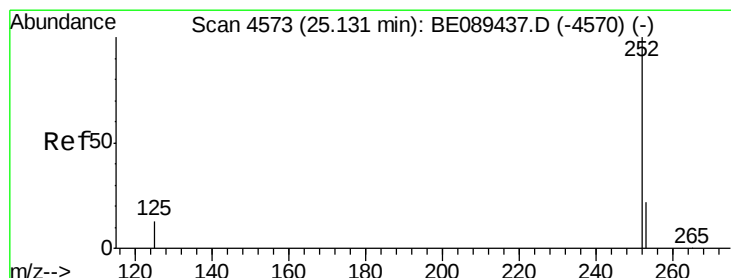
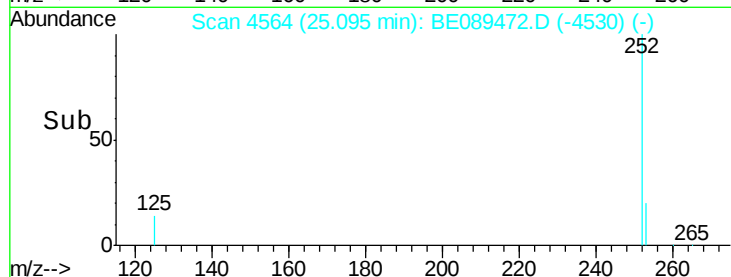
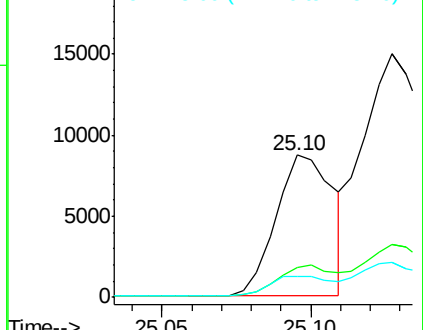
125 15.1 11.4 17.0



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: 1.13 ng

RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

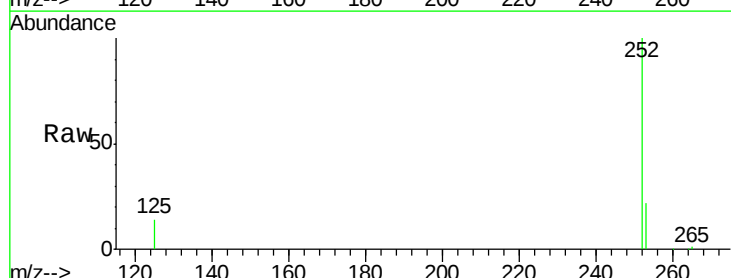
Tgt Ion:252 Resp: 48611

Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.2

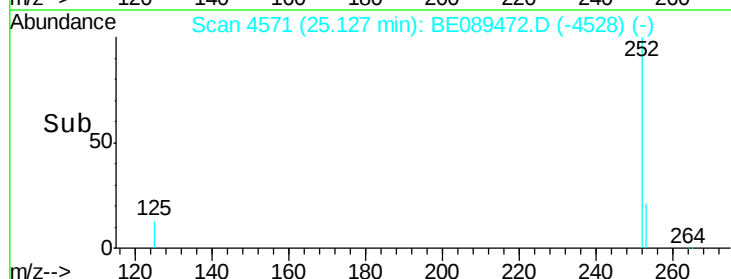
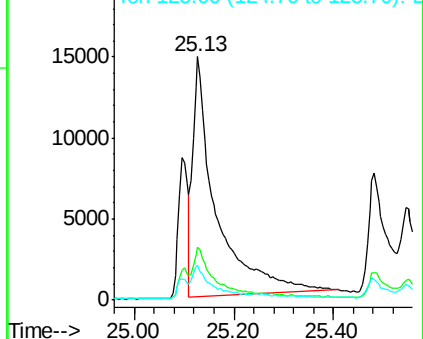
125 14.1 10.9 16.3



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: 0.66 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.00 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampled :

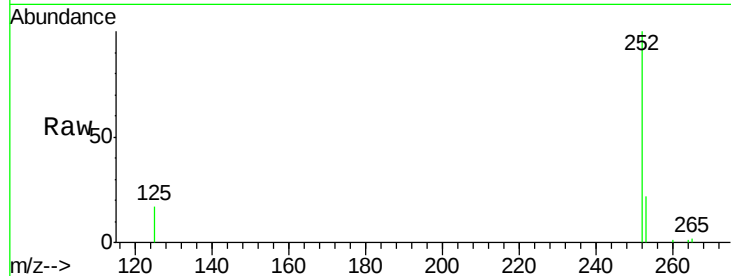
Tgt Ion:252 Resp: 16883

Ion Ratio Lower Upper

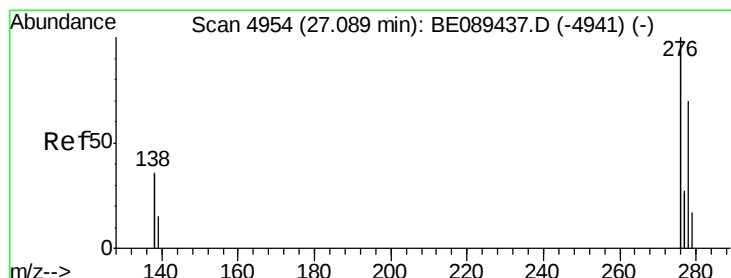
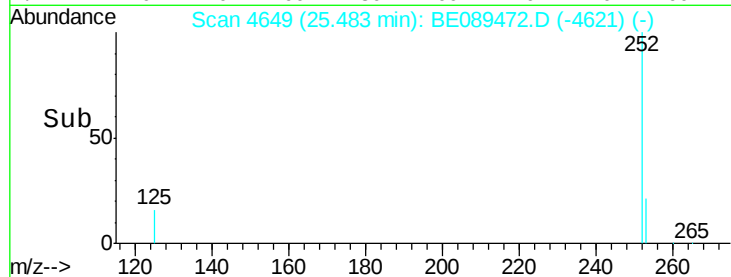
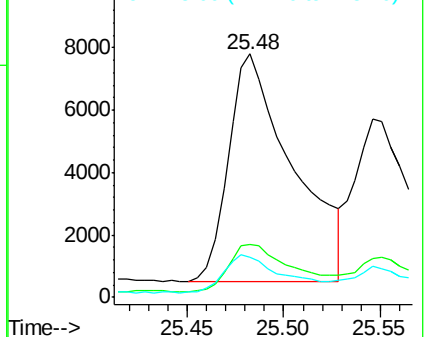
252 100

253 22.0 17.3 25.9

125 16.6 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: 0.48 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

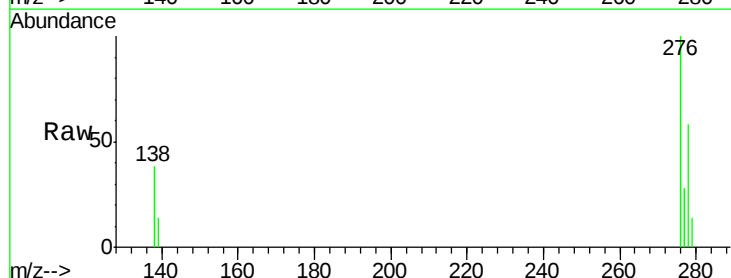
Tgt Ion:278 Resp: 12420

Ion Ratio Lower Upper

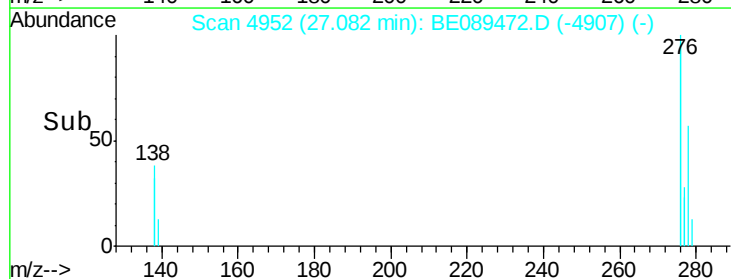
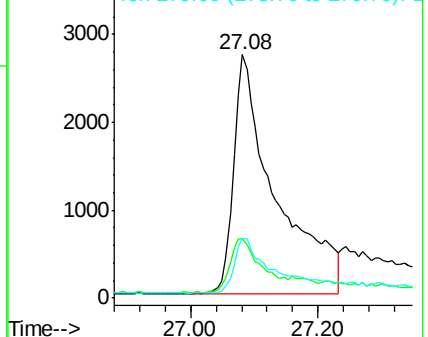
278 100

139 24.6 17.0 25.4

279 24.5 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: 0.76 ng

RT: 27.51 min Scan# 5017

Delta R.T. -0.00 min

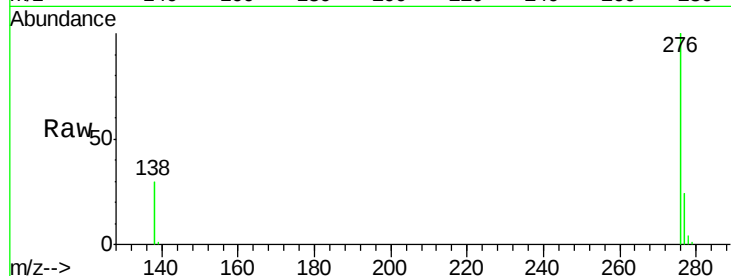
Lab File: BE089472.D

Acq: 31 Jan 2015 16:09

Instrument :

BNA_E

ClientSampleId :



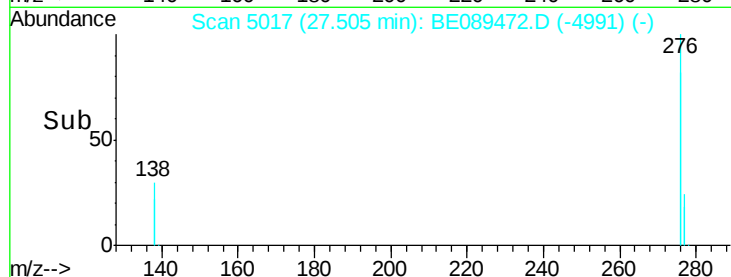
Tgt Ion: 276 Resp: 101911

Ion Ratio Lower Upper

276 100

277 24.1 18.4 27.6

138 29.9 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

