

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089464.D
 Acq On : 31 Jan 2015 9:38
 Operator : TP/IZ
 Sample : MDL-07-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 00:34:16 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	54832	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	221231	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	109164	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	175127	5.00	ng	0.00
16) Chrysene-d12	23.84	240	133114	5.00	ng	0.00
22) Perylene-d12	25.56	264	111942	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	135333	9.24	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	227403	7.91	ng	0.00
18) Terphenyl-d14	22.48	244	191208	9.59	ng	0.00

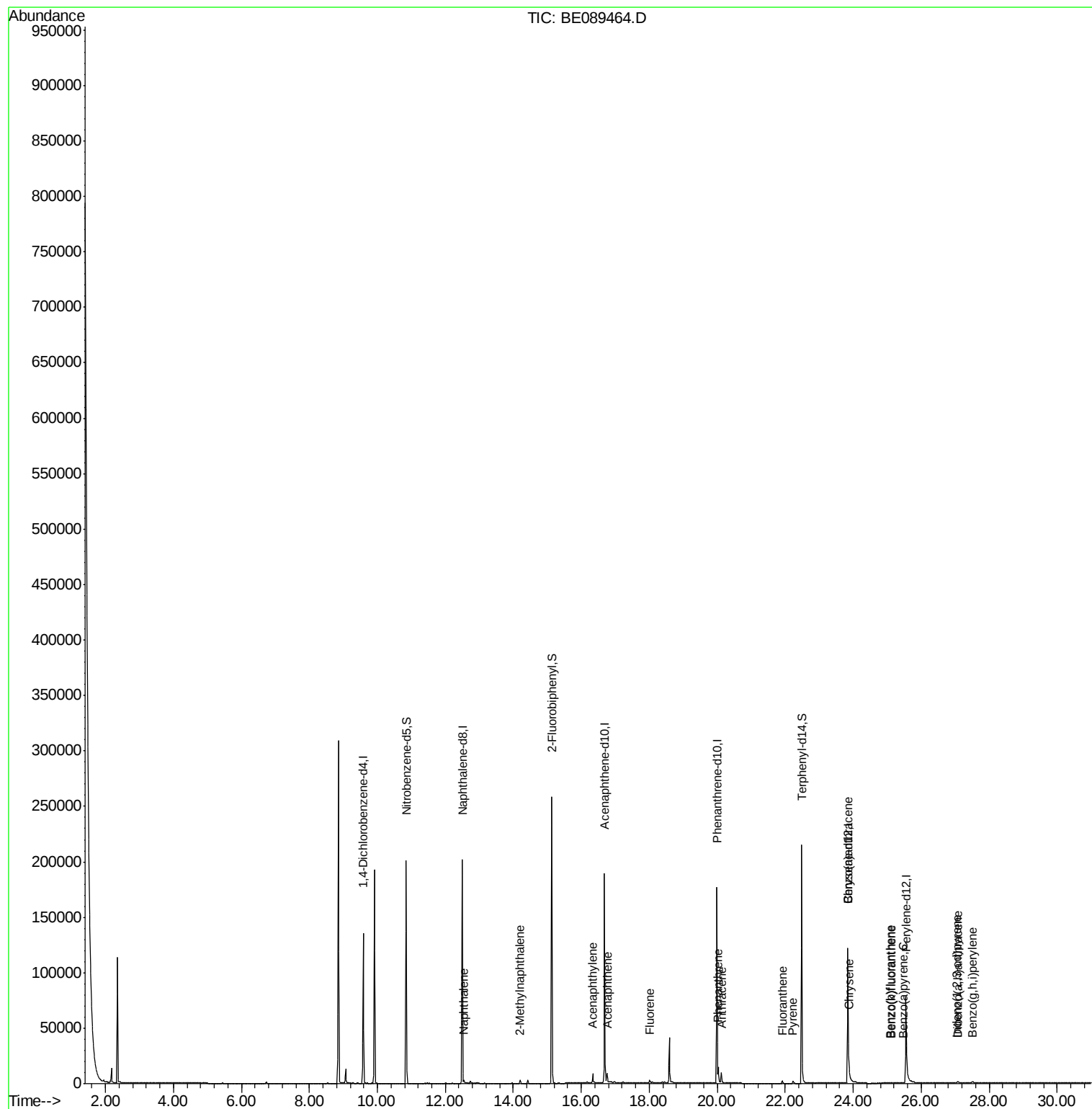
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	3667	0.07	ng	95
5) 2-Methylnaphthalene	14.20	142	1962	0.06	ng	98
8) Acenaphthylene	16.33	152	10684	0.05	ng	97
9) Acenaphthene	16.76	154	1796	0.06	ng	87
10) Fluorene	18.01	166	1899	0.06	ng	97
12) Pentachlorophenol	19.66	266	153	Below Cal		91
13) Phenanthrene	20.03	178	11849	0.07	ng	97
14) Anthracene	20.12	178	8987	0.06	ng	99
15) Fluoranthene	21.91	202	1970	0.05	ng	99
17) Pyrene	22.23	202	2079	0.06	ng	99
19) Benzo(a)anthracene	23.83	228	5888	0.05	ng	# 91
20) Chrysene	23.87	228	8874	0.07	ng	# 92
21) Indeno(1,2,3-cd)pyrene	27.05	276	1517	0.01	ng	# 89
23) Benzo(b)fluoranthene	25.10	252	381	0.20	ng	# 54
24) Benzo(k)fluoranthene	25.13	252	396	0.01	ng	# 62
25) Benzo(a)pyrene	25.48	252	437	0.14	ng	# 48
26) Dibenzo(a,h)anthracene	27.08	278	244	0.14	ng	# 39
27) Benzo(g,h,i)perylene	27.50	276	2111	0.02	ng	# 52

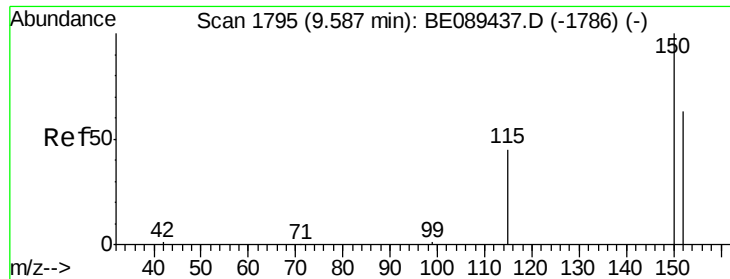
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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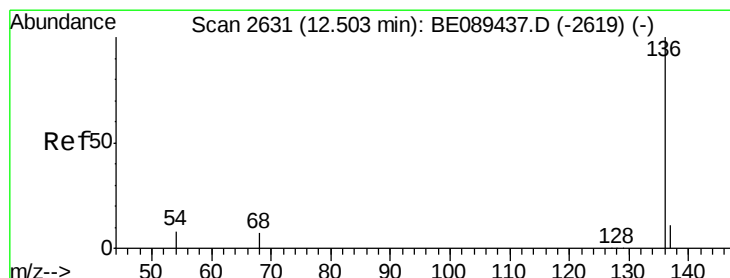
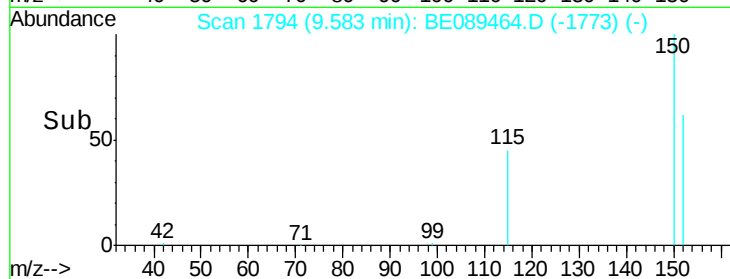
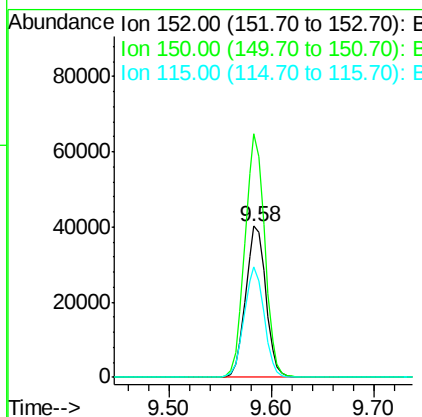
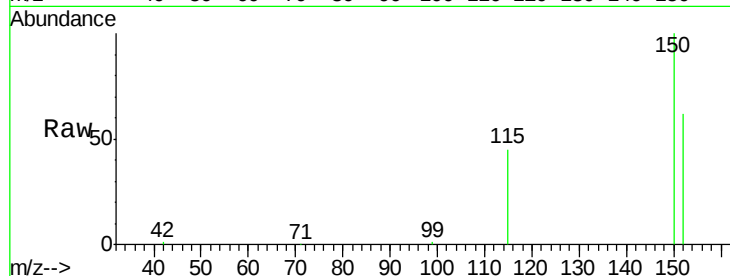




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 9.58 min Scan# 1794
 Delta R.T. -0.00 min
 Lab File: BE089464.D
 Acq: 31 Jan 2015 9:38

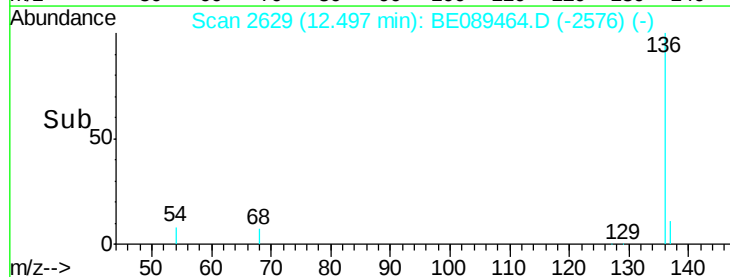
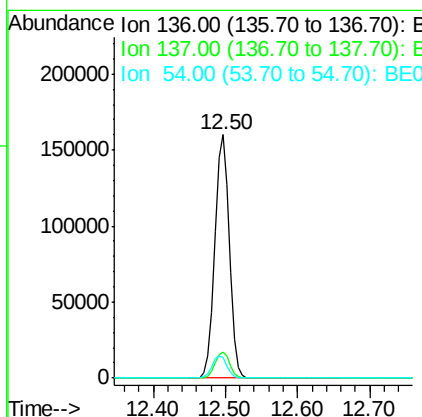
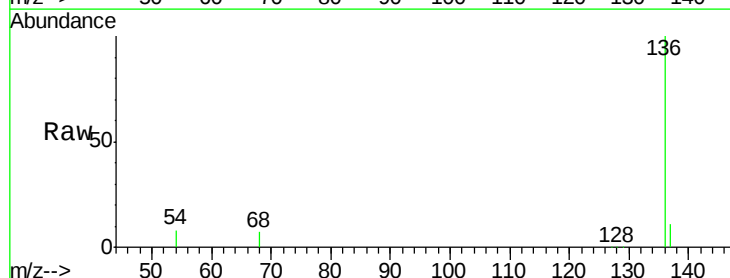
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:152 Resp: 54832
 Ion Ratio Lower Upper
 152 100
 150 161.0 127.2 190.8
 115 73.0 57.5 86.3



#2
 Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.50 min Scan# 2629
 Delta R.T. -0.01 min
 Lab File: BE089464.D
 Acq: 31 Jan 2015 9:38

Tgt Ion:136 Resp: 221231
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 8.4 6.6 10.0





#3

Nitrobenzene-d5

Concen: 9.24 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampled :

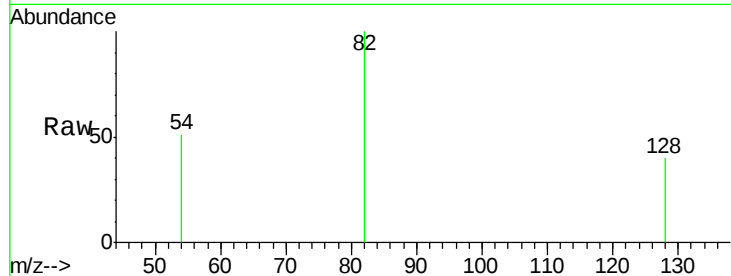
Tgt Ion: 82 Resp: 135333

Ion Ratio Lower Upper

82 100

128 39.5 31.2 46.8

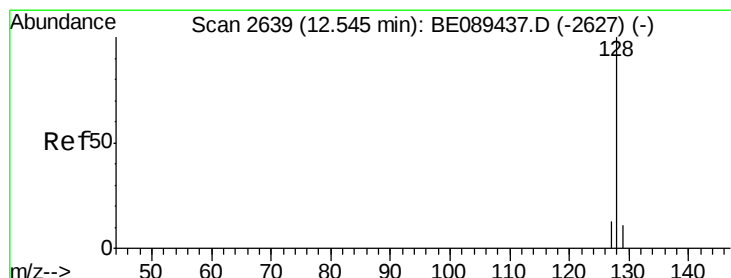
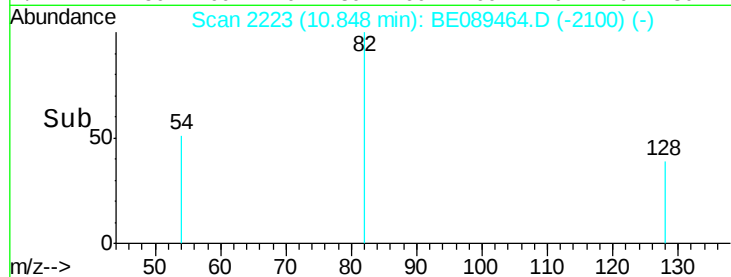
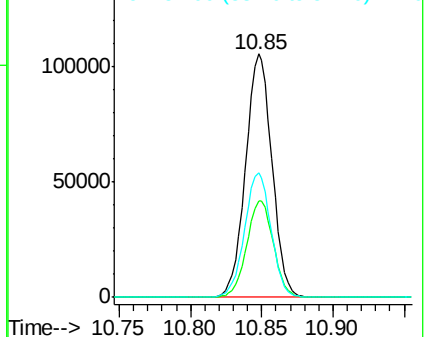
54 51.3 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE089437.D (-2208) (-)

Ion 128.00 (127.70 to 128.70): BE089437.D (-2208) (-)

Ion 54.00 (53.70 to 54.70): BE089437.D (-2208) (-)



#4

Naphthalene

Concen: 0.07 ng

RT: 12.54 min Scan# 2637

Delta R.T. -0.01 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

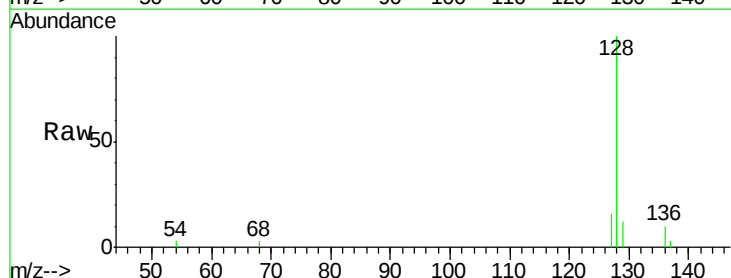
Tgt Ion: 128 Resp: 3667

Ion Ratio Lower Upper

128 100

129 11.8 8.8 13.2

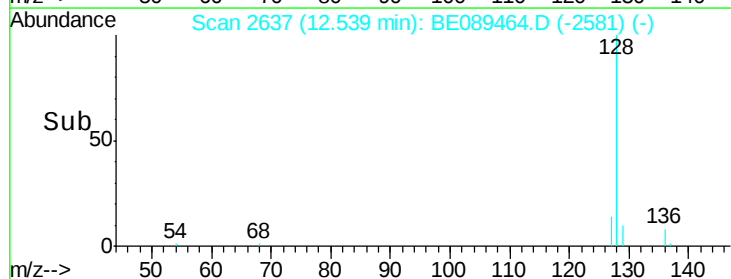
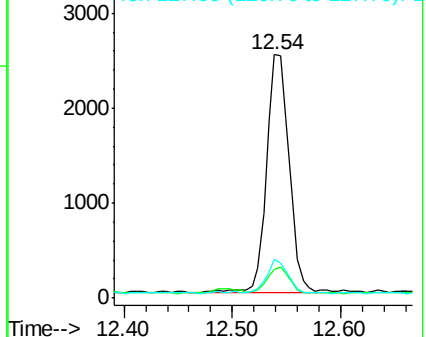
127 15.9 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): BE089437.D (-2627) (-)

Ion 129.00 (128.70 to 129.70): BE089437.D (-2627) (-)

Ion 127.00 (126.70 to 127.70): BE089437.D (-2627) (-)





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.20 min Scan# 2975

Delta R.T. -0.01 min

Lab File: BE089464.D

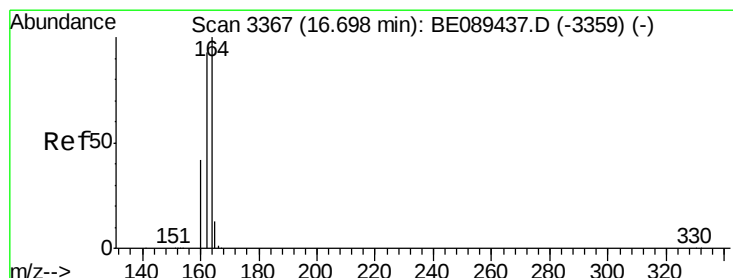
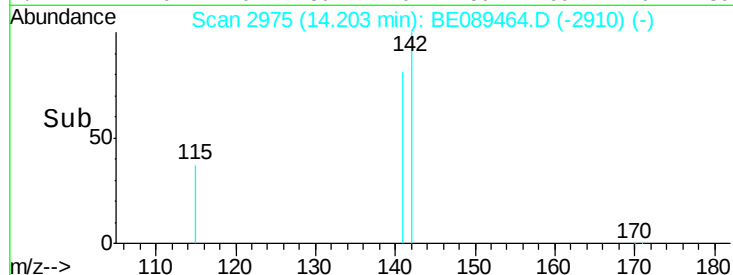
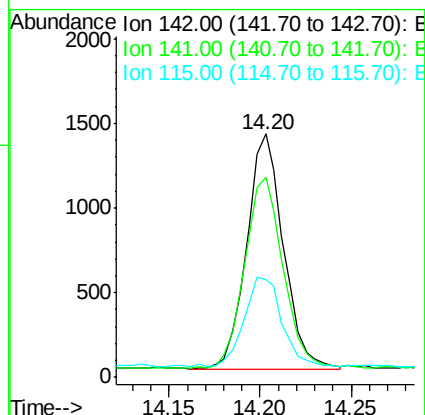
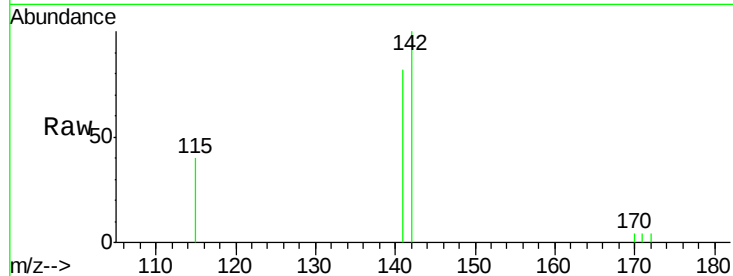
Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	1962
Ion	Ratio	Lower	Upper
142	100		
141	81.9	66.1	99.1
115	40.3	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

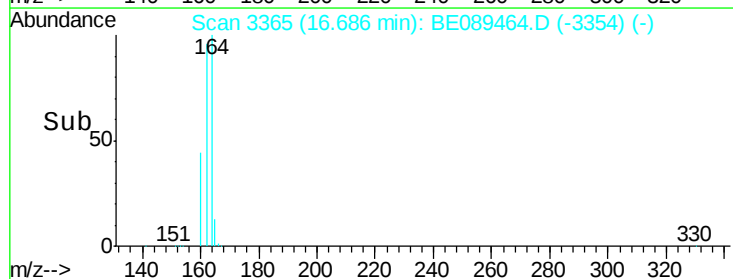
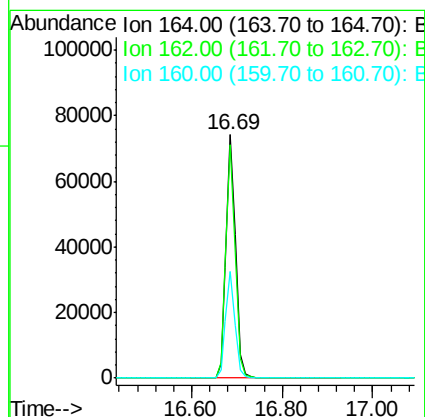
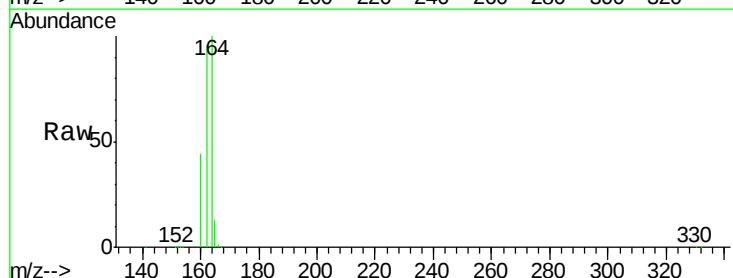
RT: 16.69 min Scan# 3365

Delta R.T. -0.01 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Tgt Ion:	164	Resp:	109164
Ion	Ratio	Lower	Upper
164	100		
162	95.9	74.7	112.1
160	44.0	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.91 ng

RT: 15.13 min Scan# 3179

Delta R.T. -0.01 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :

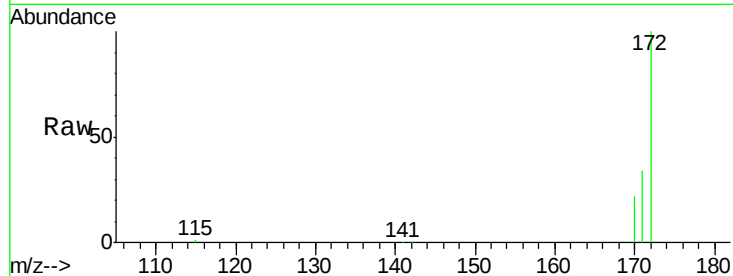
Tgt Ion:172 Resp: 227403

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.4

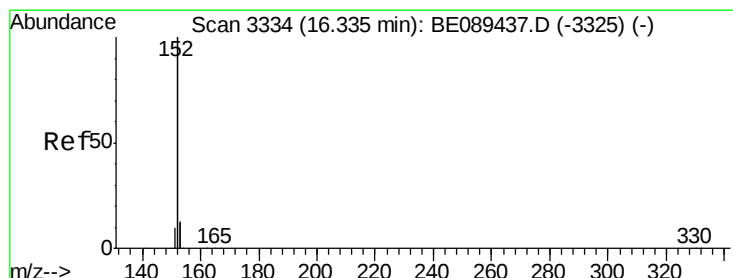
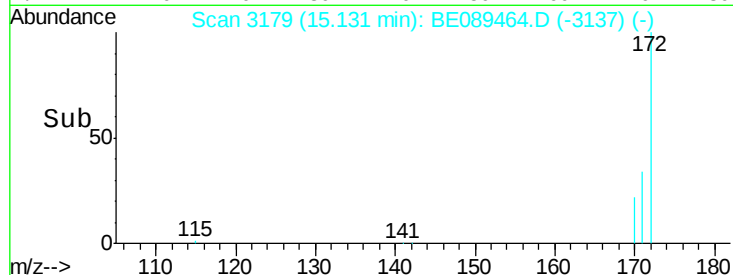
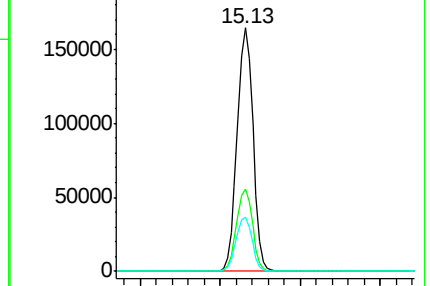
170 22.3 16.5 24.7



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: 0.05 ng

RT: 16.33 min Scan# 3333

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

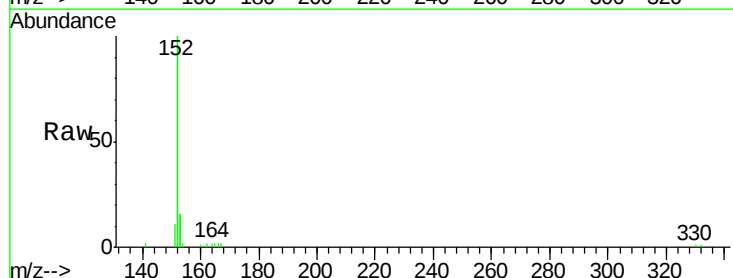
Tgt Ion:152 Resp: 10684

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

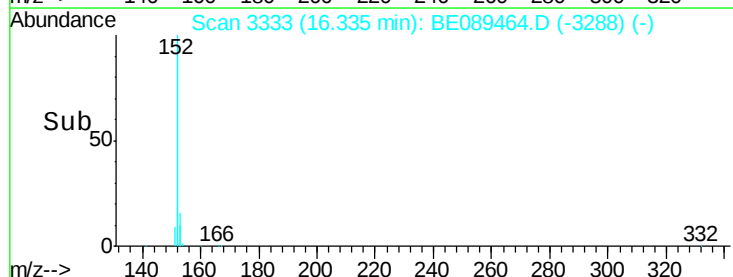
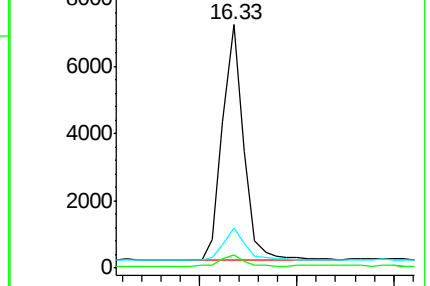
153 14.8 10.3 15.5



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: 0.06 ng

RT: 16.76 min Scan# 3372

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :

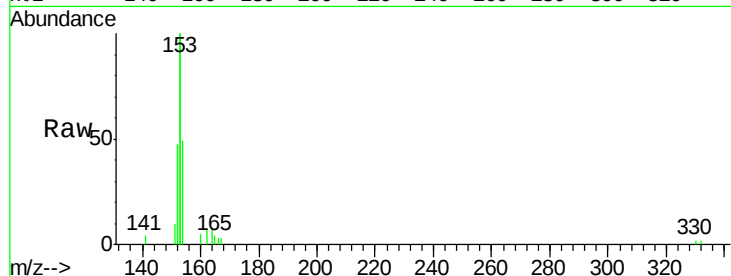
Tgt Ion:154 Resp: 1796

Ion Ratio Lower Upper

154 100

153 453.0 342.3 513.5

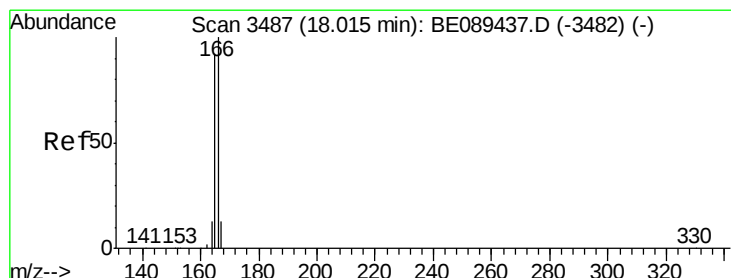
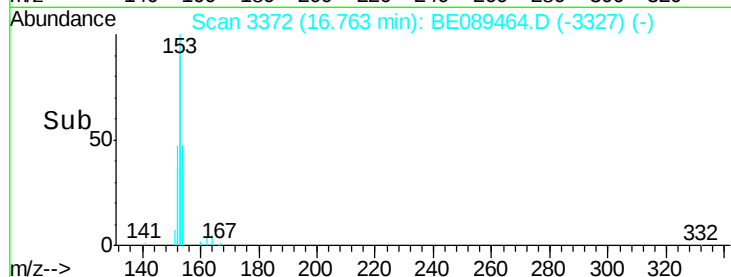
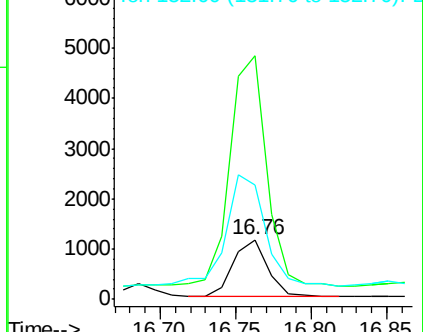
152 237.7 165.5 248.3



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: 0.06 ng

RT: 18.01 min Scan# 3486

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

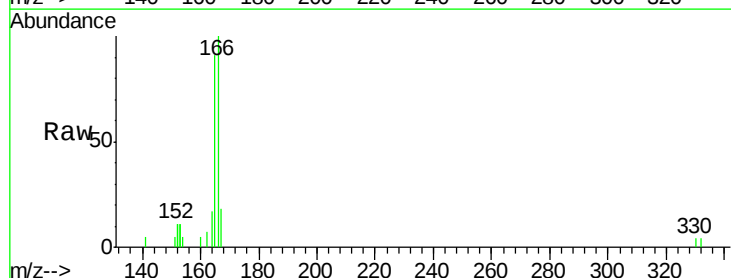
Tgt Ion:166 Resp: 1899

Ion Ratio Lower Upper

166 100

165 96.4 74.4 111.6

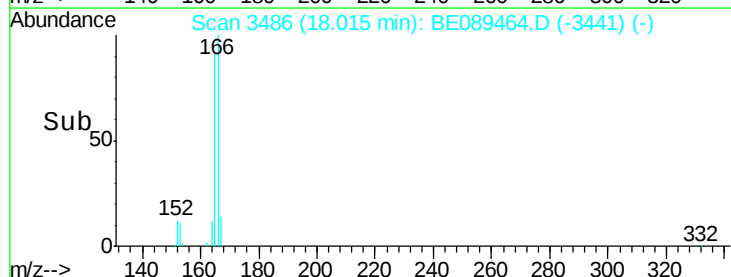
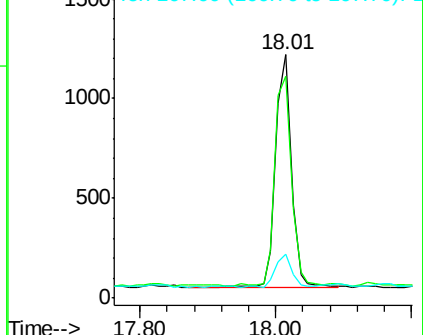
167 14.5 10.6 15.8



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

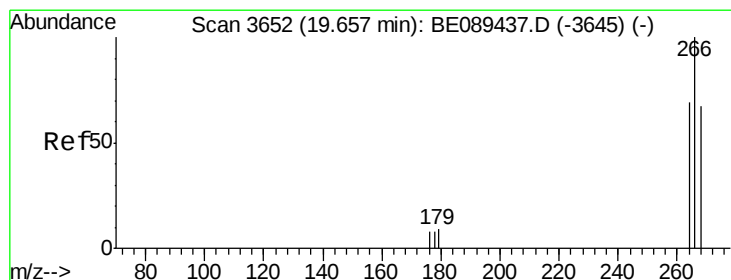
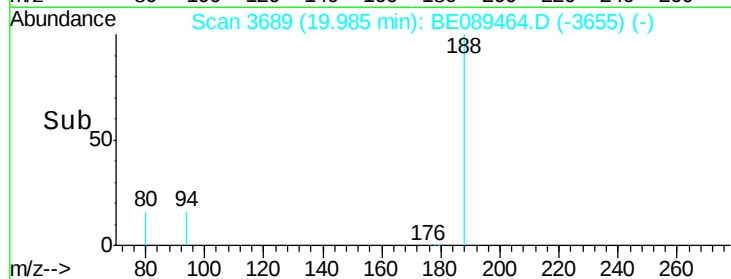
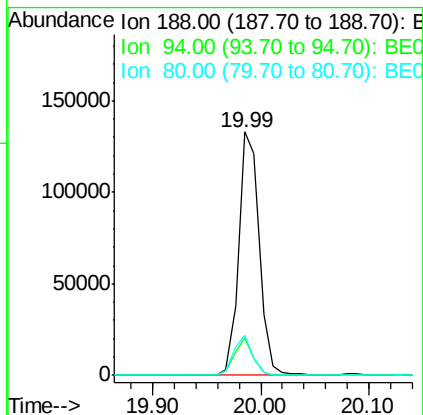
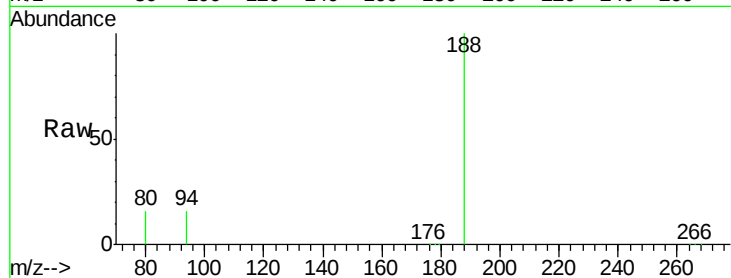




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3689
Delta R.T. -0.01 min
Lab File: BE089464.D
Acq: 31 Jan 2015 9:38

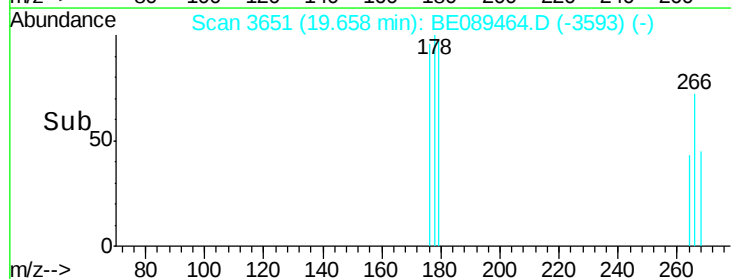
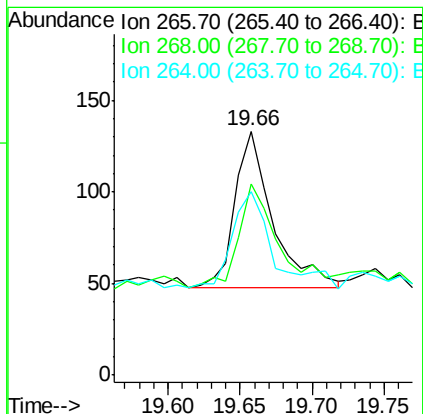
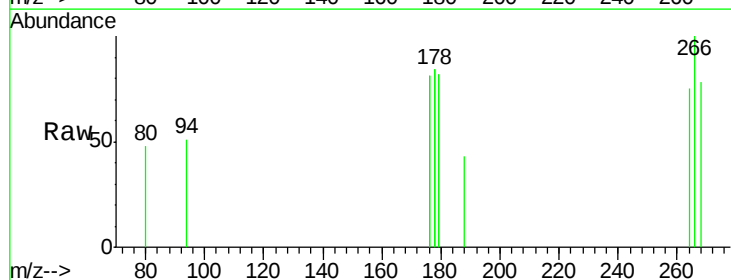
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 175127
Ion Ratio Lower Upper
188 100
94 15.6 9.4 14.0#
80 16.4 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3651
Delta R.T. 0.00 min
Lab File: BE089464.D
Acq: 31 Jan 2015 9:38

Tgt Ion:266 Resp: 153
Ion Ratio Lower Upper
266 100
268 78.2 54.2 81.4
264 75.2 56.2 84.2

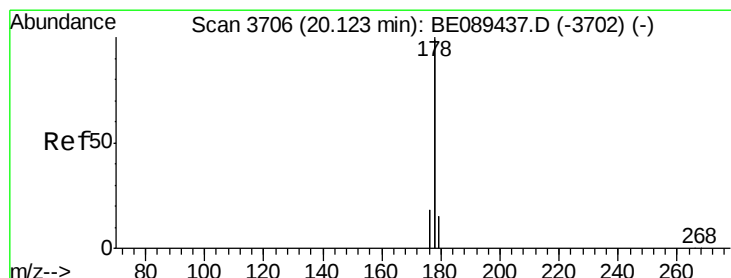
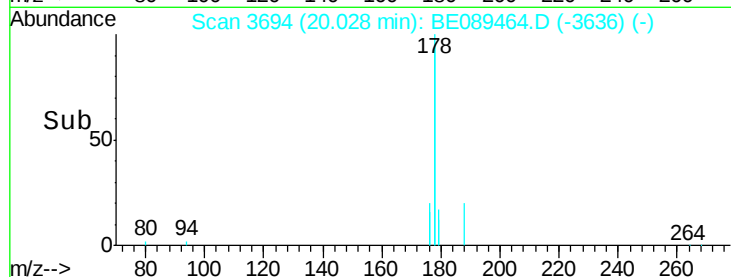
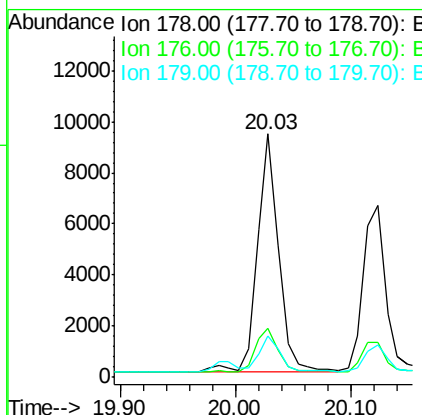
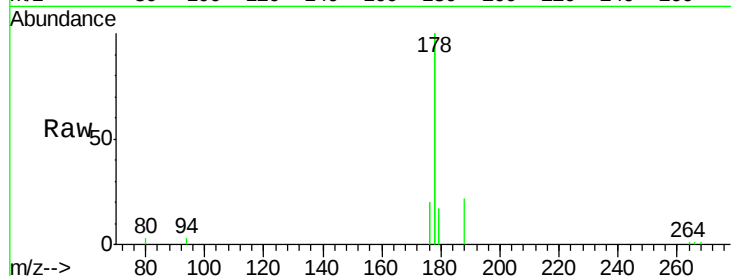




#13
Phenanthrene
Concen: 0.07 ng
RT: 20.03 min Scan# 3694
Delta R.T. 0.00 min
Lab File: BE089464.D
Acq: 31 Jan 2015 9:38

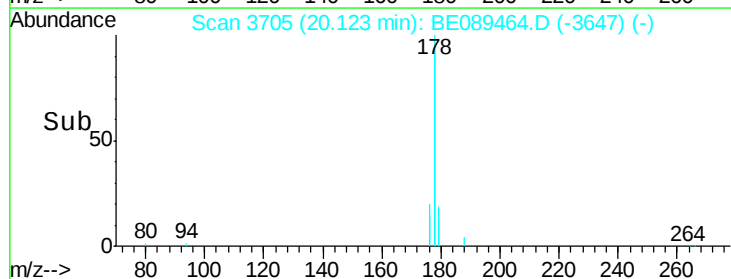
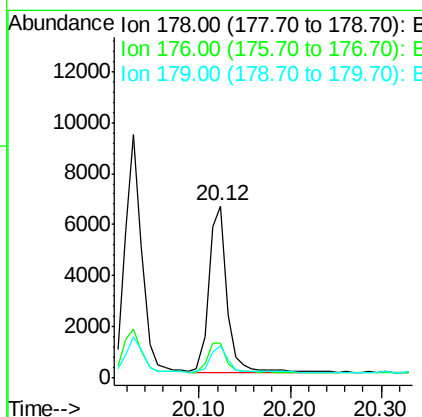
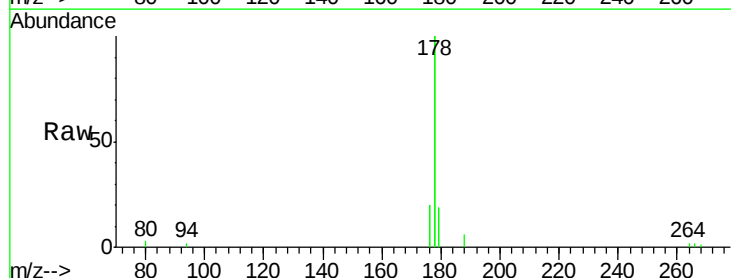
Instrument :
BNA_E
ClientSampleId :

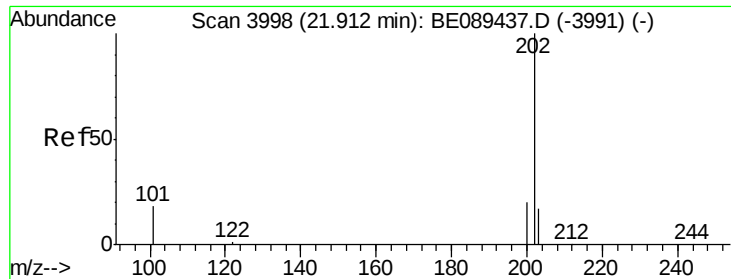
Tgt Ion:178 Resp: 11849
Ion Ratio Lower Upper
178 100
176 20.8 15.1 22.7
179 15.7 12.3 18.5



#14
Anthracene
Concen: 0.06 ng
RT: 20.12 min Scan# 3705
Delta R.T. 0.00 min
Lab File: BE089464.D
Acq: 31 Jan 2015 9:38

Tgt Ion:178 Resp: 8987
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 16.2 12.2 18.2





#15

Fluoranthene

Concen: 0.05 ng

RT: 21.91 min Scan# 3997

Delta R.T. 0.00 min

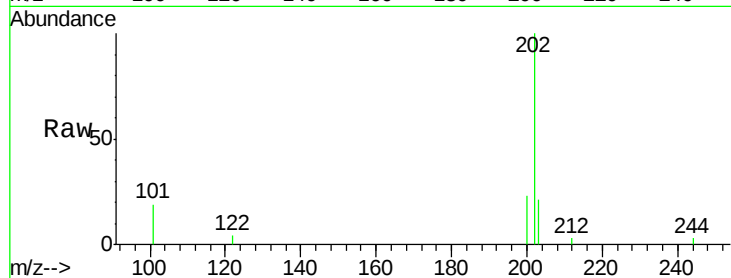
Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :



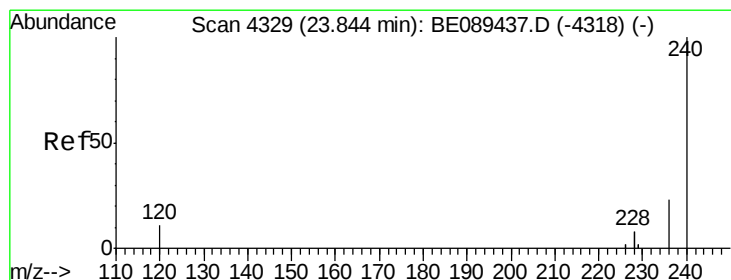
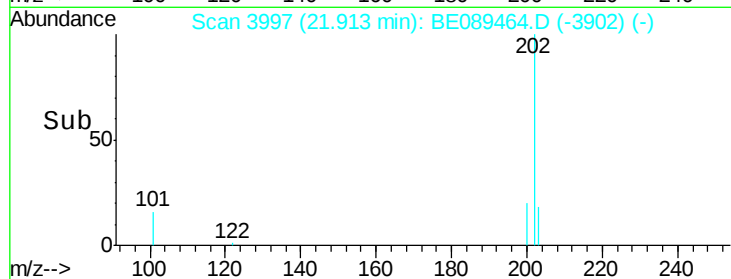
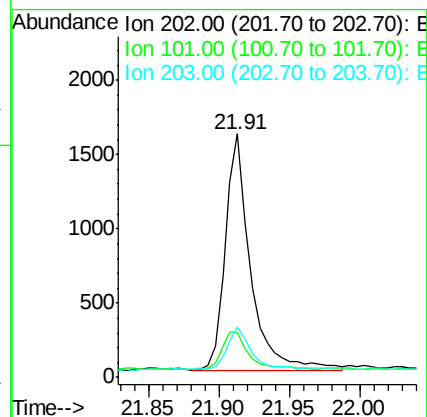
Tgt Ion: 202 Resp: 1970

Ion Ratio Lower Upper

202 100

101 17.6 13.6 20.4

203 17.7 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: BE089464.D

Acq: 31 Jan 2015 9:38

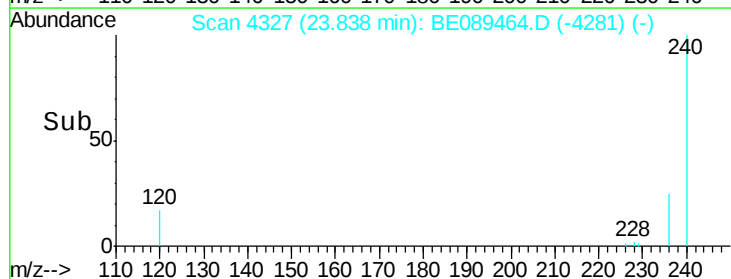
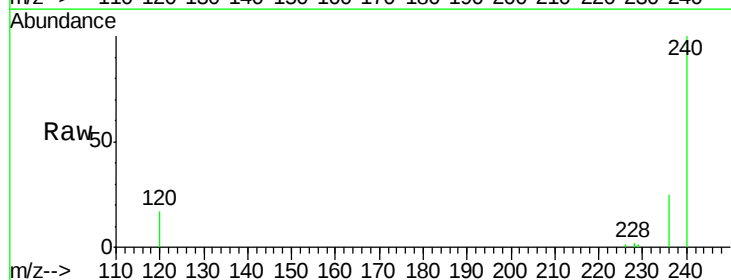
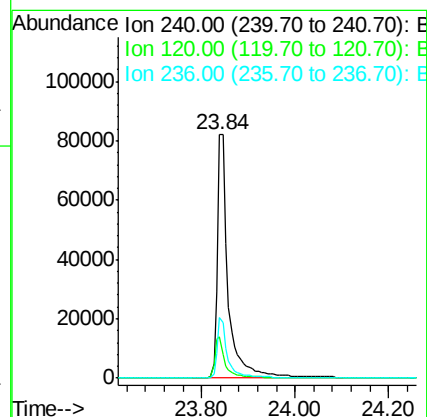
Tgt Ion: 240 Resp: 133114

Ion Ratio Lower Upper

240 100

120 17.2 8.6 13.0#

236 25.1 18.7 28.1

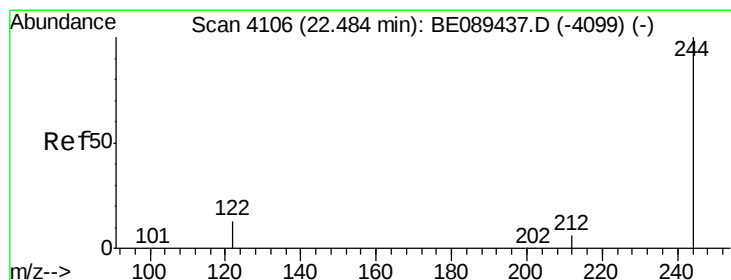
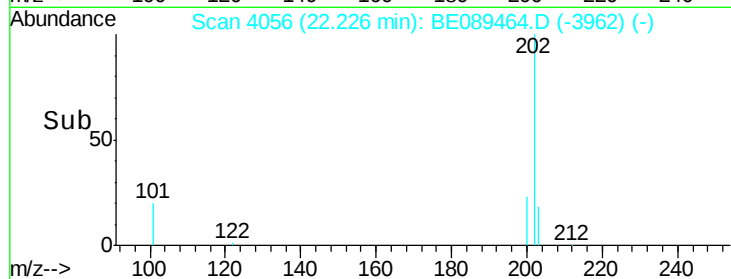
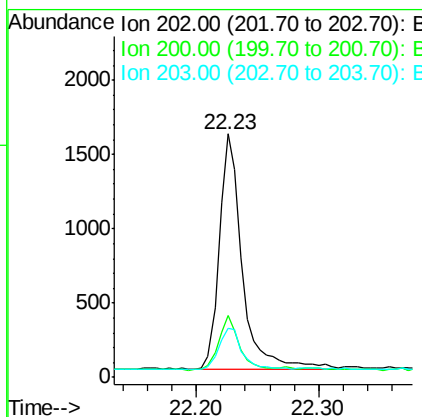
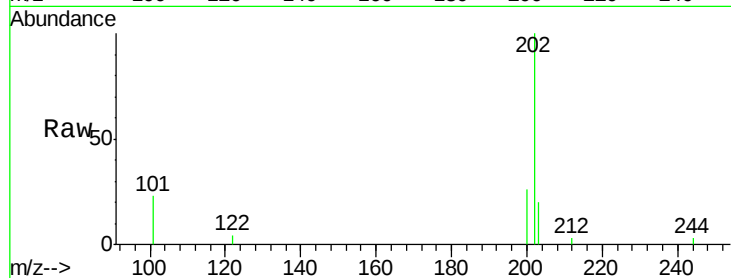




#17
Pyrene
Concen: 0.06 ng
RT: 22.23 min Scan# 4056
Delta R.T. -0.00 min
Lab File: BE089464.D
Acq: 31 Jan 2015 9:38

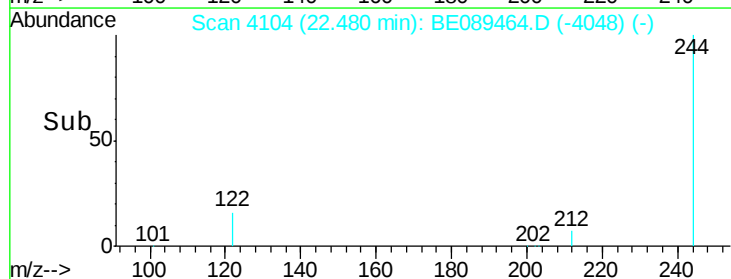
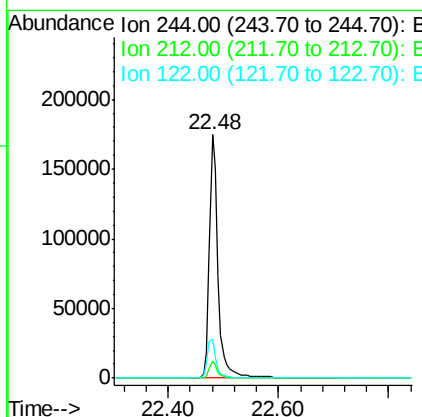
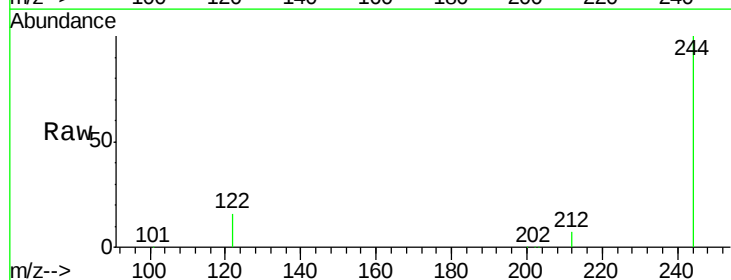
Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 202 Resp: 2079
Ion Ratio Lower Upper
202 100
200 20.2 16.2 24.4
203 18.5 13.8 20.8



#18
Terphenyl-d14
Concen: 9.59 ng
RT: 22.48 min Scan# 4104
Delta R.T. -0.00 min
Lab File: BE089464.D
Acq: 31 Jan 2015 9:38

Tgt Ion: 244 Resp: 191208
Ion Ratio Lower Upper
244 100
212 6.8 5.0 7.6
122 15.7 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :

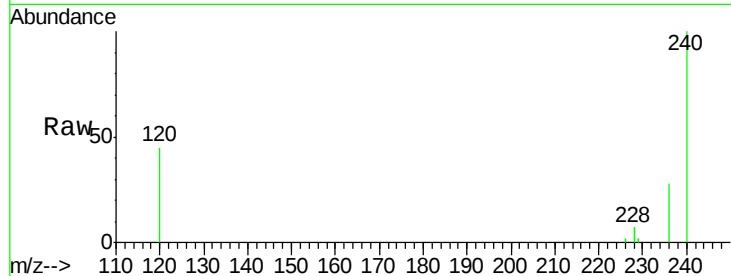
Tgt Ion:228 Resp: 5888

Ion Ratio Lower Upper

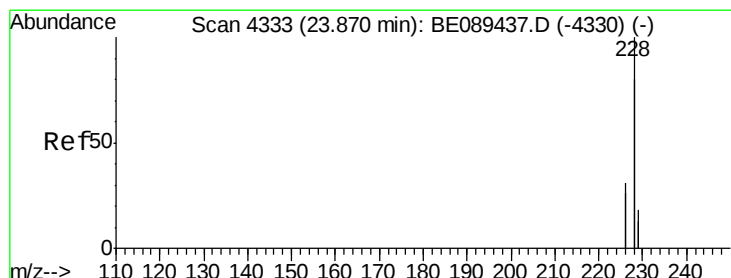
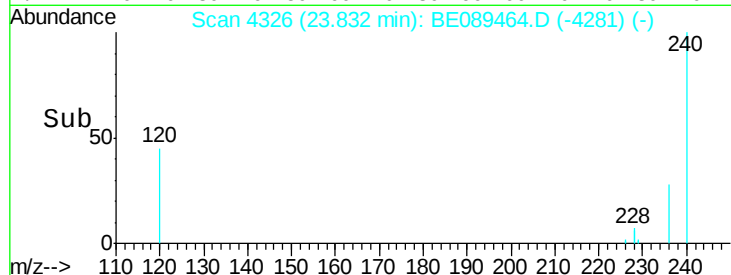
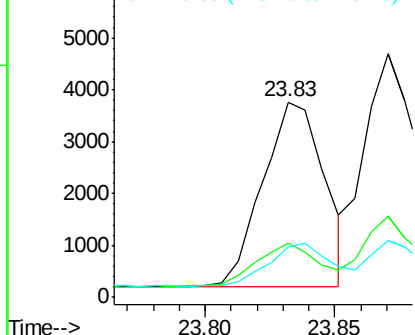
228 100

226 27.7 20.0 30.0

229 26.1 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: 0.07 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

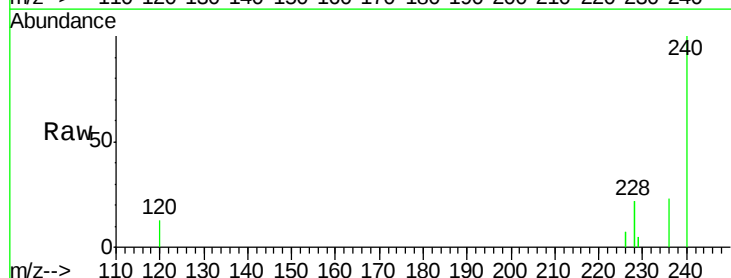
Tgt Ion:228 Resp: 8874

Ion Ratio Lower Upper

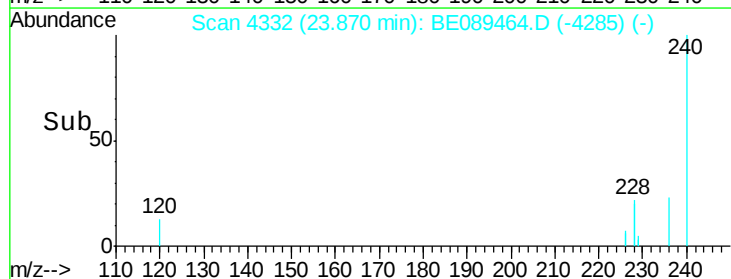
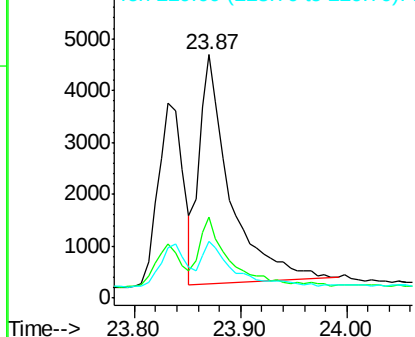
228 100

226 33.4 24.5 36.7

229 23.1 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: 0.01 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

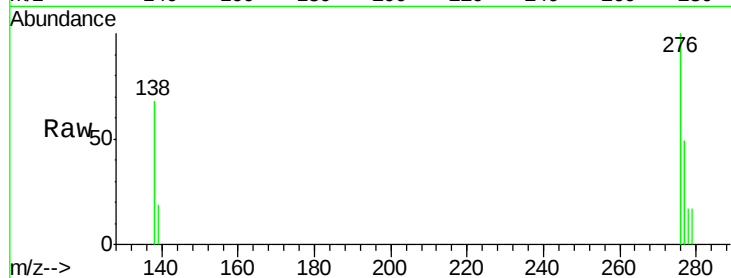
Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :



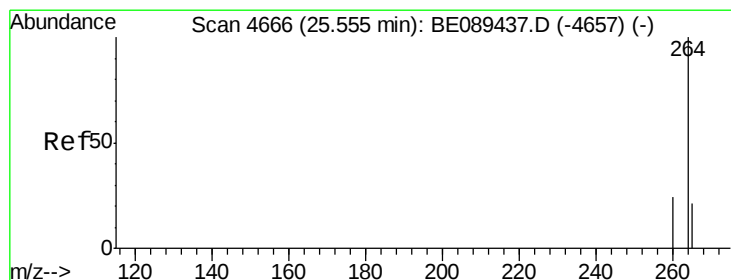
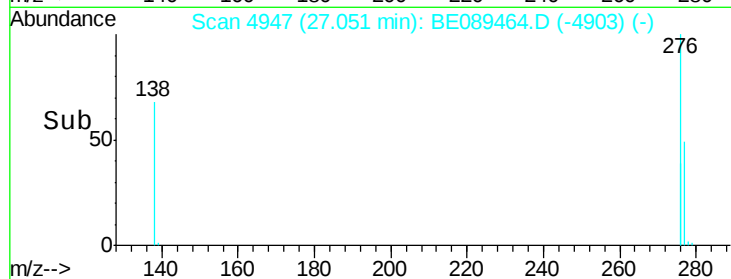
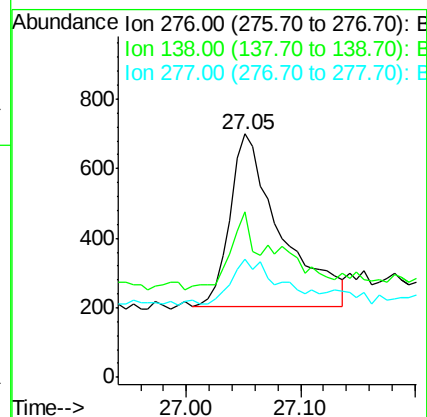
Tgt Ion: 276 Resp: 1517

Ion Ratio Lower Upper

276 100

138 21.2 25.4 38.0#

277 25.0 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: BE089464.D

Acq: 31 Jan 2015 9:38

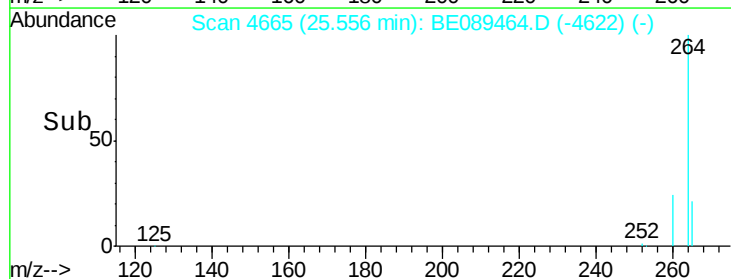
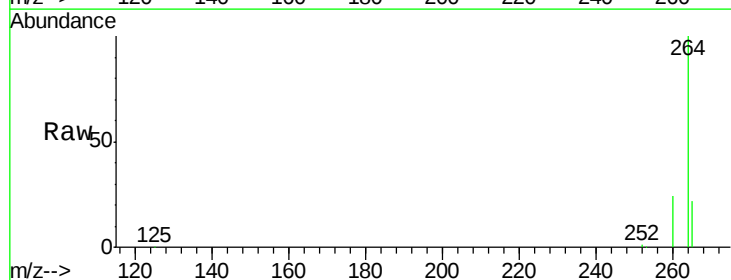
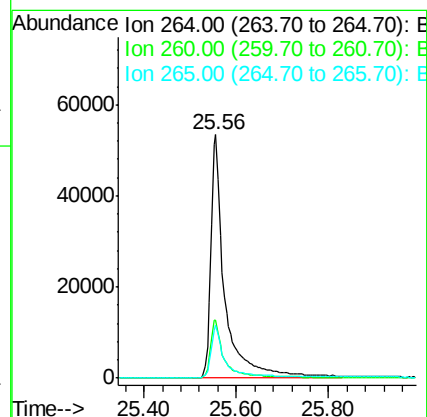
Tgt Ion: 264 Resp: 111942

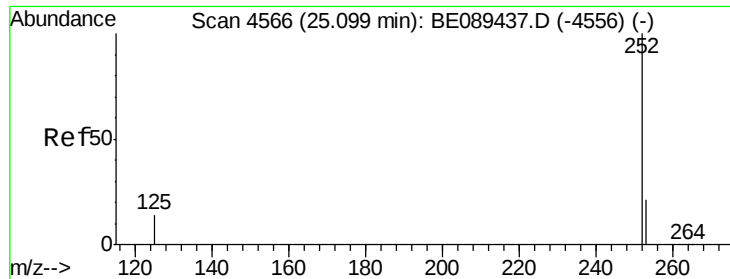
Ion Ratio Lower Upper

264 100

260 23.7 19.4 29.0

265 21.8 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089464.D

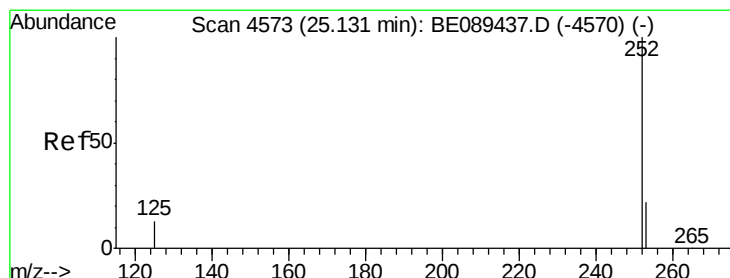
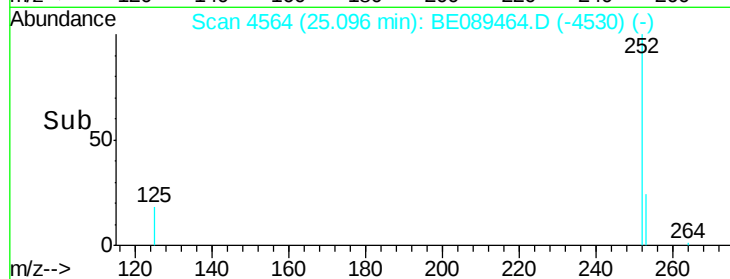
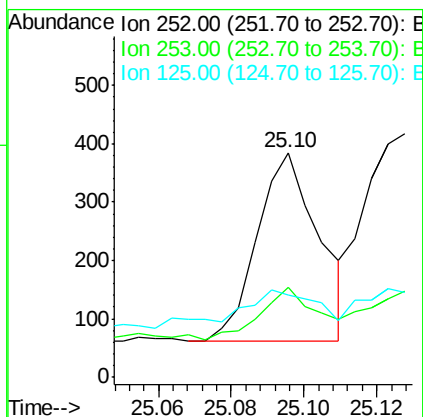
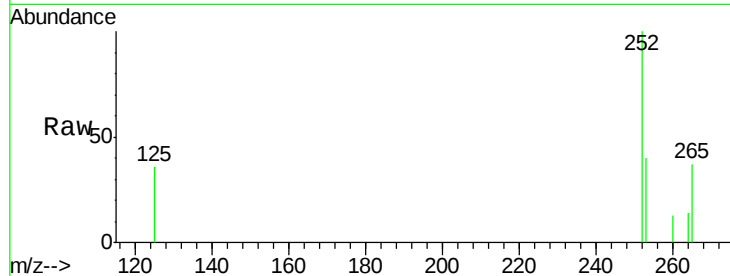
Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	381
Ion	Ratio	Lower	Upper
252	100		
253	40.0	17.0	25.6#
125	36.4	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.01 ng

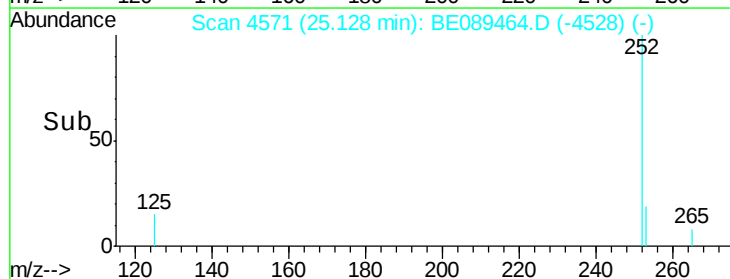
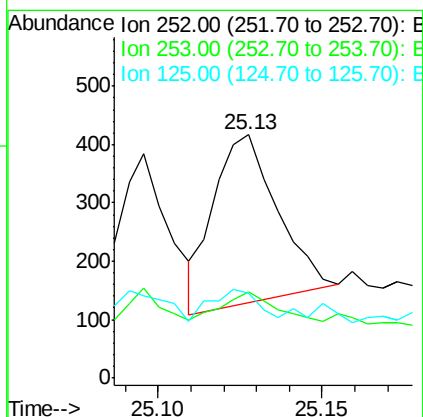
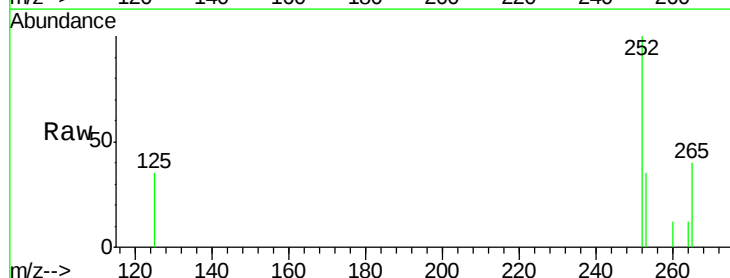
RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Tgt Ion:	252	Resp:	396
Ion	Ratio	Lower	Upper
252	100		
253	35.3	17.4	26.2#
125	34.8	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.14 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

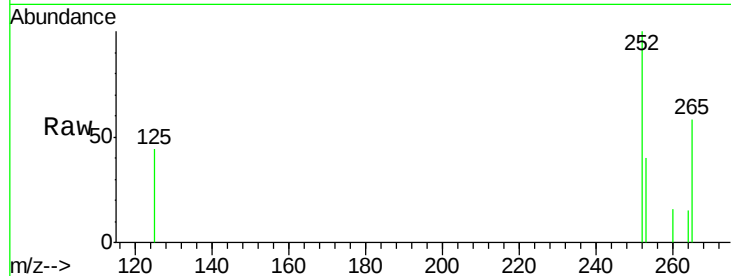
Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :



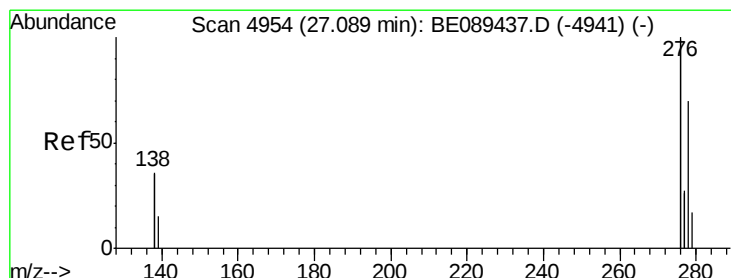
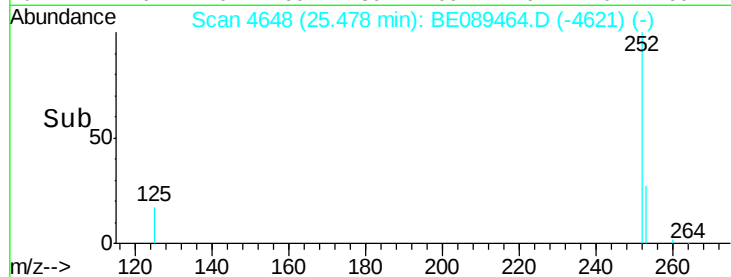
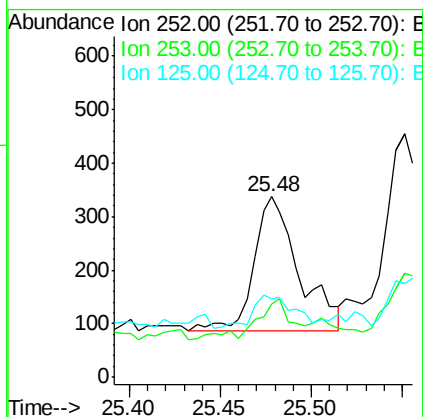
Tgt Ion: 252 Resp: 437

Ion Ratio Lower Upper

252 100

253 40.4 17.3 25.9#

125 43.6 12.0 18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

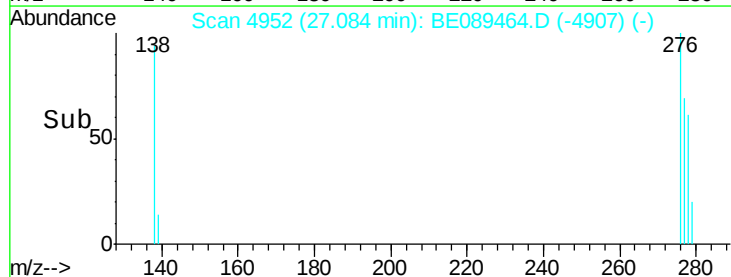
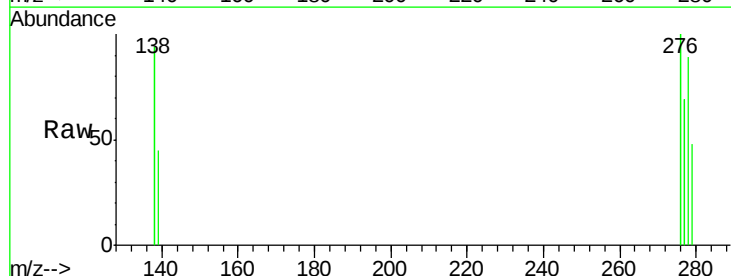
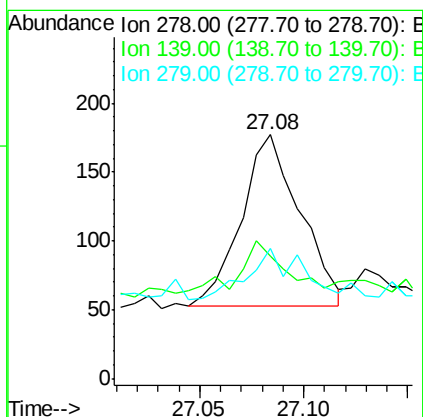
Tgt Ion: 278 Resp: 244

Ion Ratio Lower Upper

278 100

139 50.3 17.0 25.4#

279 53.7 19.1 28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

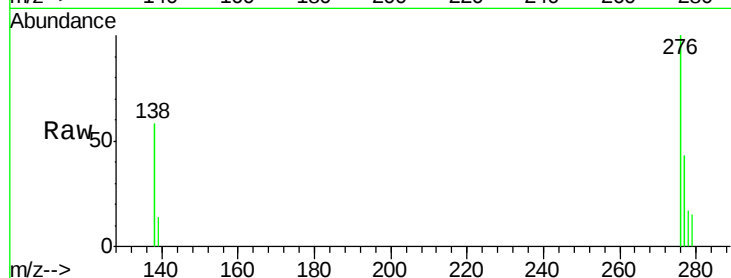
Lab File: BE089464.D

Acq: 31 Jan 2015 9:38

Instrument :

BNA_E

ClientSampleId :



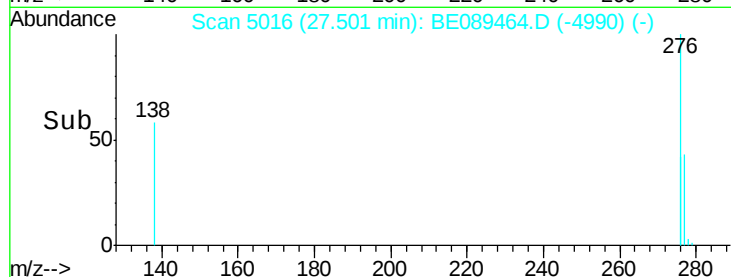
Tgt Ion: 276 Resp: 2111

Ion Ratio Lower Upper

276 100

277 43.4 18.4 27.6#

138 58.3 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

