

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089460.D
 Acq On : 31 Jan 2015 7:03
 Operator : TP/IZ
 Sample : MDL-03-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 00:32:43 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	54784	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	231408	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	127722	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	208185	5.00	ng	0.00
16) Chrysene-d12	23.84	240	159825	5.00	ng	0.00
22) Perylene-d12	25.55	264	136703	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	118331	7.72	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	218858	6.50	ng	0.00
18) Terphenyl-d14	22.48	244	190440	7.96	ng	0.00

Target Compounds						Qvalue
4) Naphthalene	12.54	128	4983	0.09	ng	97
5) 2-Methylnaphthalene	14.20	142	3523	0.11	ng	91
8) Acenaphthylene	16.34	152	25702	0.11	ng	100
9) Acenaphthene	16.76	154	4276	0.12	ng	98
10) Fluorene	18.02	166	4918	0.13	ng	100
12) Pentachlorophenol	19.66	266	481	0.08	ng	97
13) Phenanthrene	20.03	178	32417	0.16	ng	98
14) Anthracene	20.12	178	25394	0.14	ng	99
15) Fluoranthene	21.91	202	5729	0.13	ng	99
17) Pyrene	22.23	202	6106	0.14	ng	99
19) Benzo(a)anthracene	23.83	228	16520	0.12	ng	98
20) Chrysene	23.87	228	24246	0.16	ng	97
21) Indeno(1,2,3-cd)pyrene	27.05	276	4393	0.03	ng	95
23) Benzo(b)fluoranthene	25.09	252	1058	0.23	ng	# 81
24) Benzo(k)fluoranthene	25.13	252	2080	0.06	ng	# 81
25) Benzo(a)pyrene	25.48	252	1320	0.17	ng	# 78
26) Dibenzo(a,h)anthracene	27.08	278	796	0.16	ng	# 61
27) Benzo(g,h,i)perylene	27.51	276	6365	0.06	ng	# 82

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

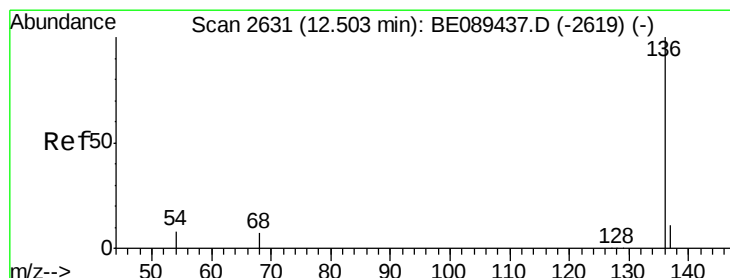
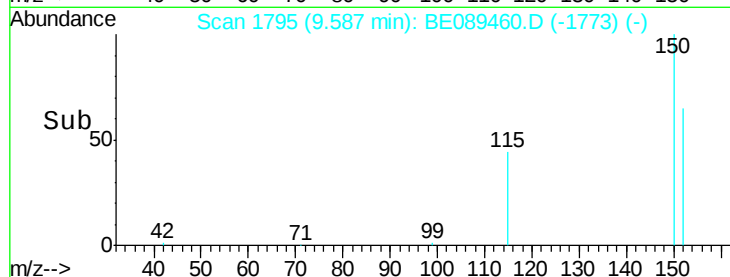
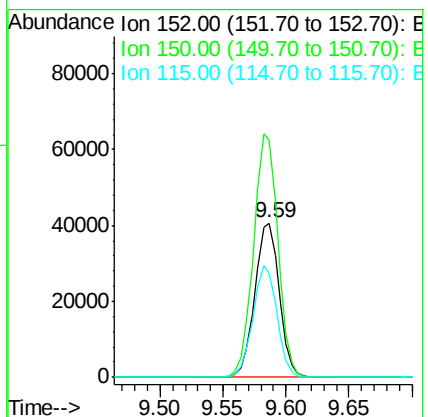
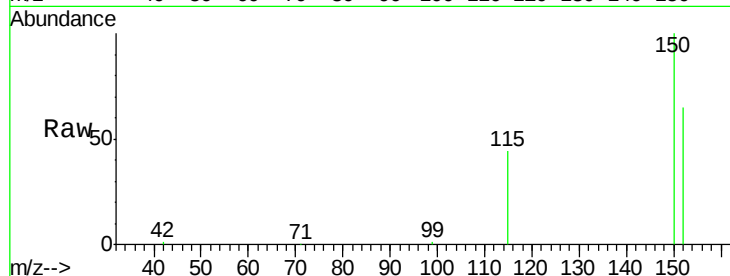
Tgt Ion:152 Resp: 54784

Ion Ratio Lower Upper

152 100

150 153.6 127.2 190.8

115 67.0 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

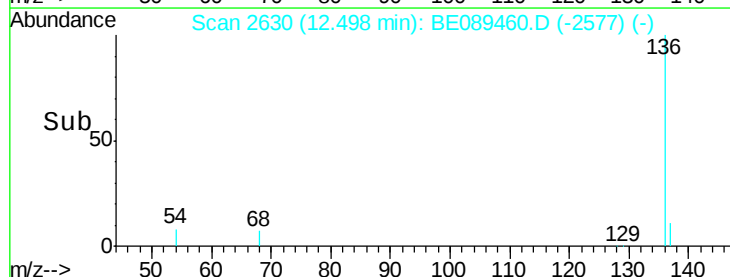
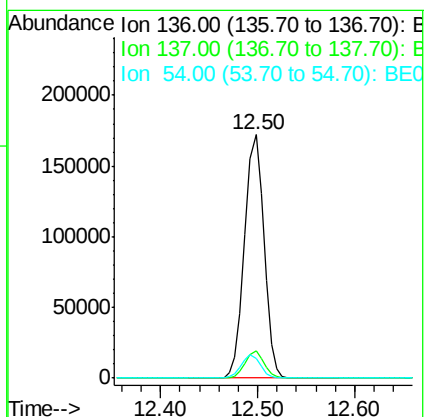
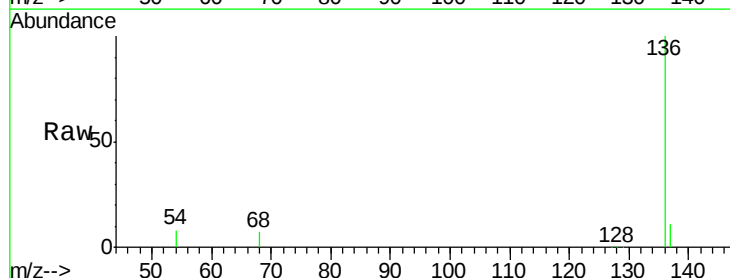
Tgt Ion:136 Resp: 231408

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 8.0 6.6 10.0





#3

Nitrobenzene-d5

Concen: 7.72 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

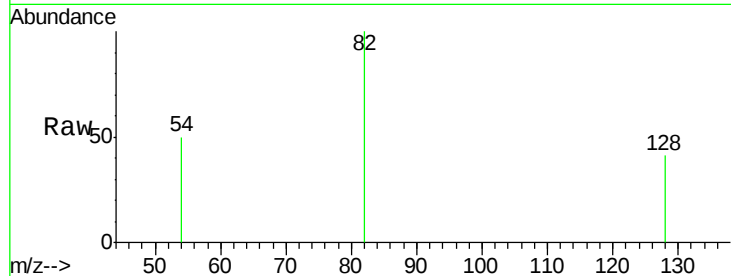
Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

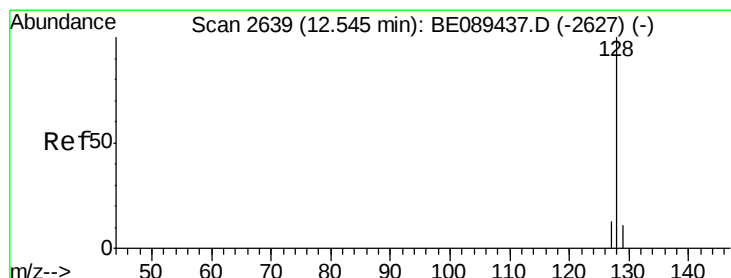
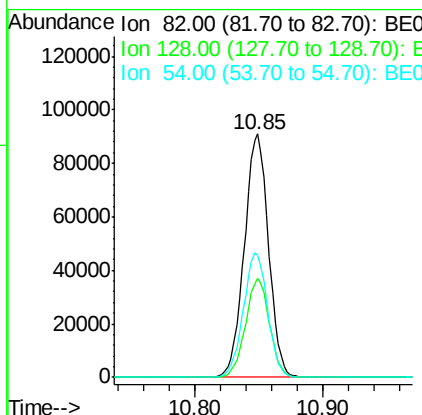
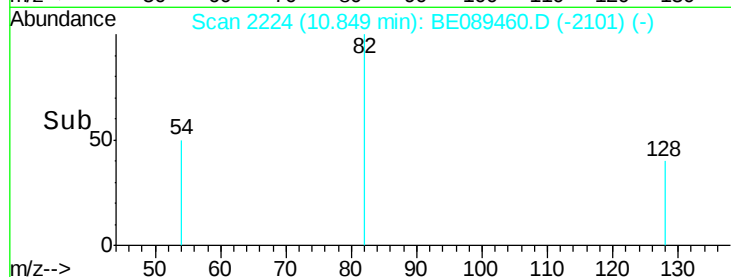
Instrument :

BNA_E

ClientSampled :



Tgt Ion:	82	Resp:	118331
Ion	Ratio	Lower	Upper
82	100		
128	40.5	31.2	46.8
54	50.1	41.9	62.9



#4

Naphthalene

Concen: 0.09 ng

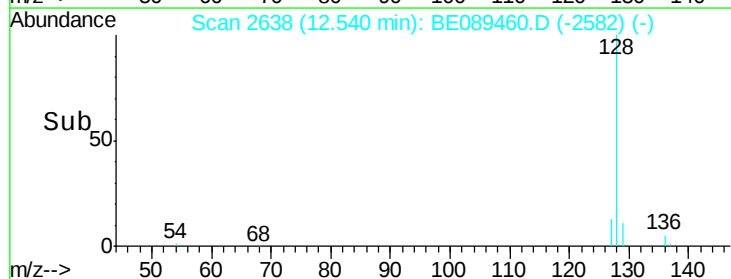
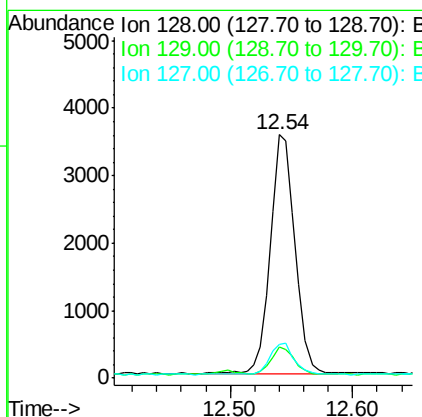
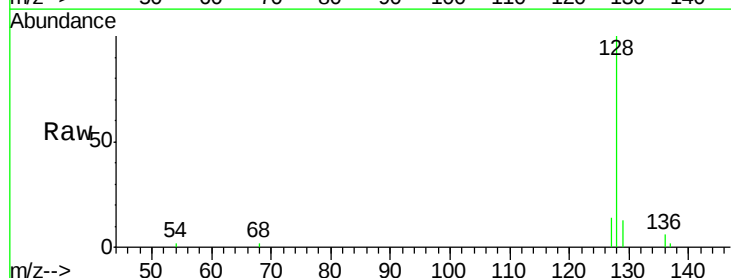
RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Tgt Ion:	128	Resp:	4983
Ion	Ratio	Lower	Upper
128	100		
129	12.7	8.8	13.2
127	14.1	10.6	16.0





#5

2-Methylnaphthalene

Concen: 0.11 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089460.D

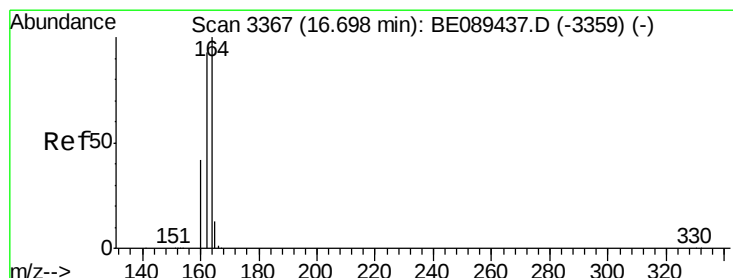
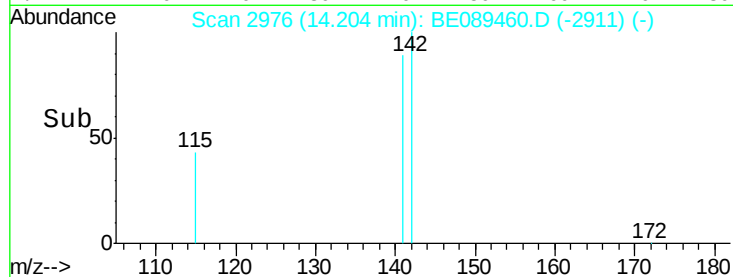
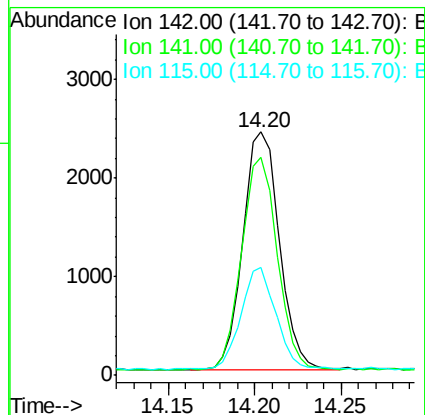
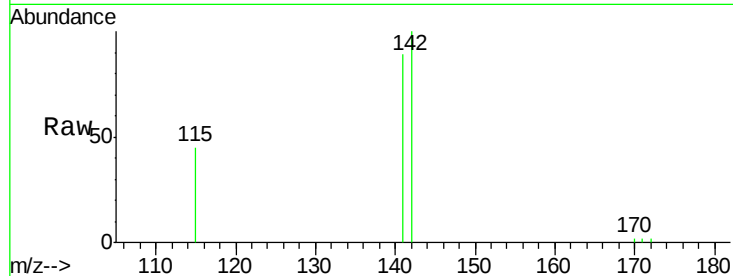
Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	3523
Ion Ratio	Lower	Upper	
142	100		
141	89.4	66.1	99.1
115	44.6	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

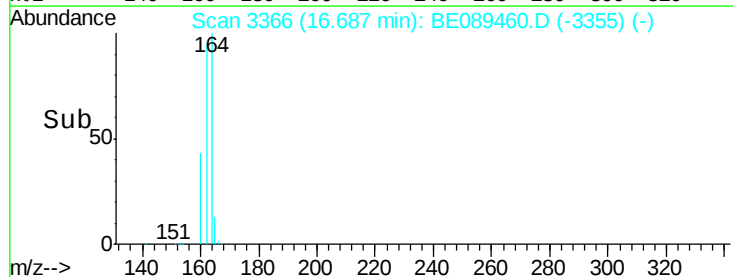
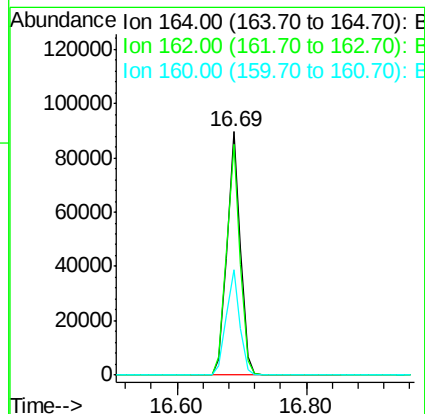
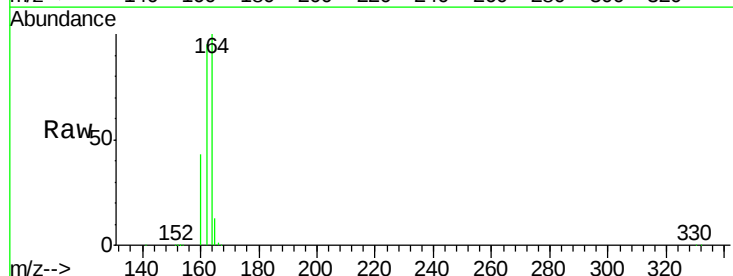
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Tgt Ion:	164	Resp:	127722
Ion Ratio	Lower	Upper	
164	100		
162	94.7	74.7	112.1
160	43.1	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 6.50 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

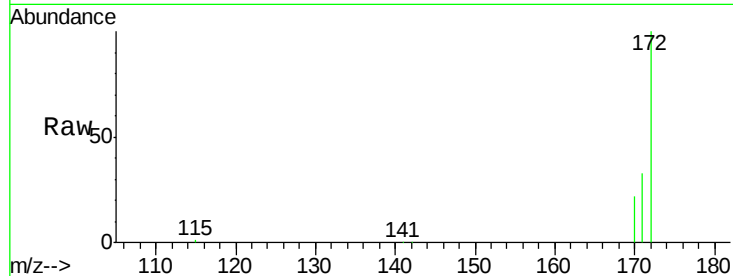
Tgt Ion:172 Resp: 218858

Ion Ratio Lower Upper

172 100

171 33.5 26.2 39.4

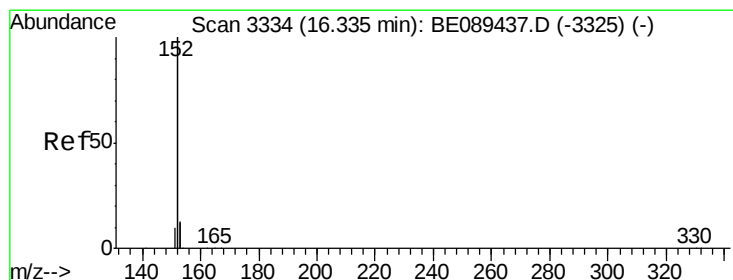
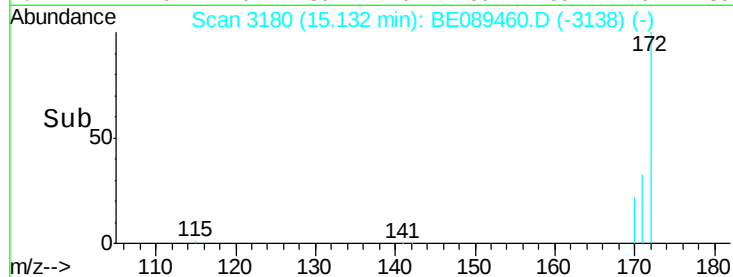
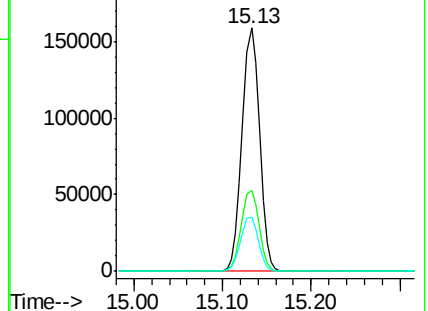
170 22.3 16.5 24.7



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: 0.11 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

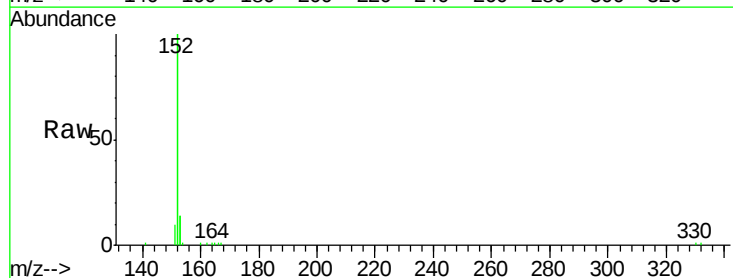
Tgt Ion:152 Resp: 25702

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

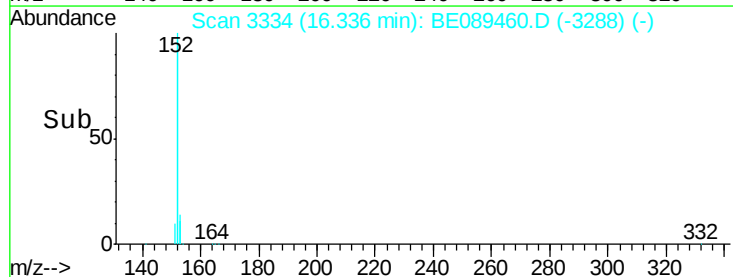
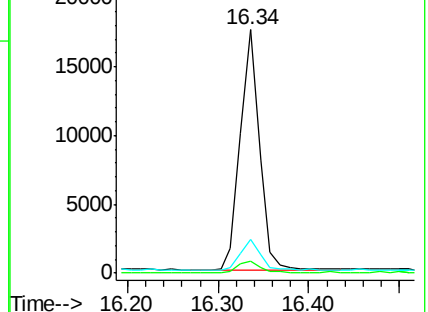
153 13.0 10.3 15.5



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: 0.12 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

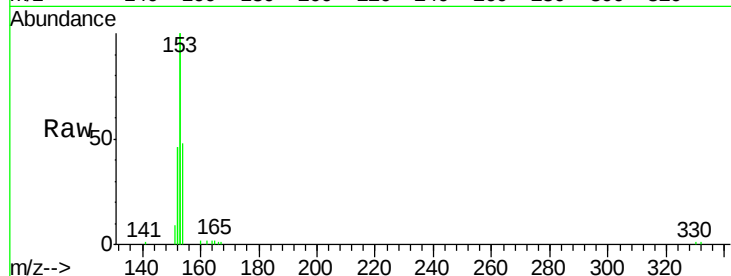
Tgt Ion:154 Resp: 4276

Ion Ratio Lower Upper

154 100

153 428.5 342.3 513.5

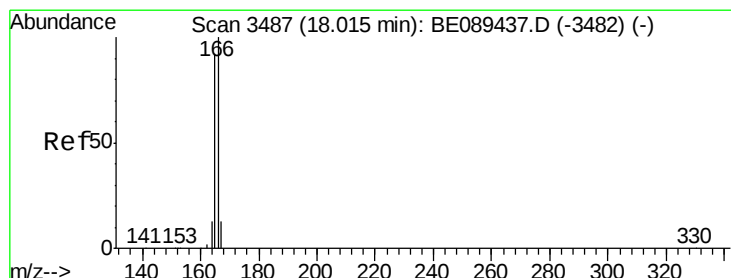
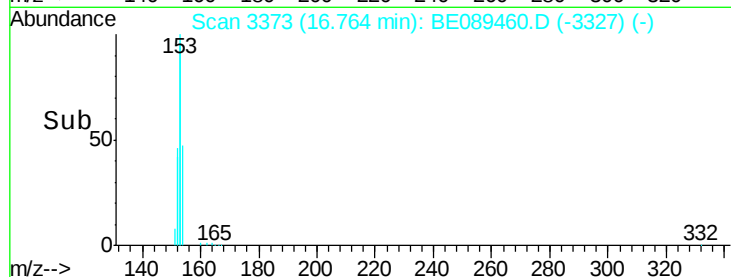
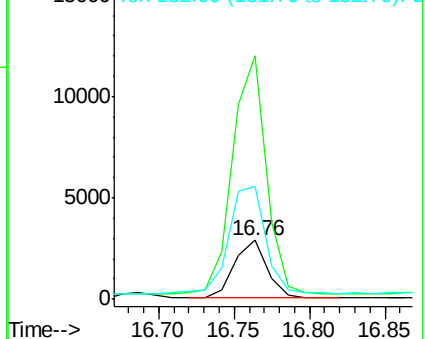
152 213.3 165.5 248.3



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: BE089460.D

Acq: 31 Jan 2015 7:03

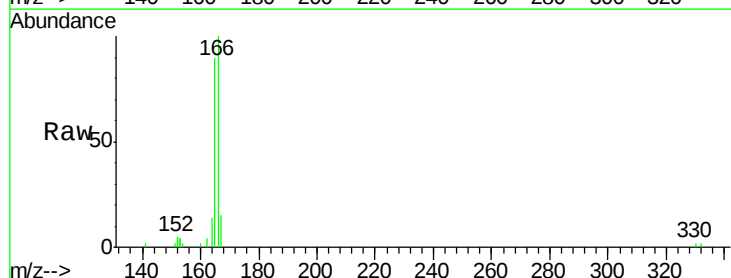
Tgt Ion:166 Resp: 4918

Ion Ratio Lower Upper

166 100

165 93.4 74.4 111.6

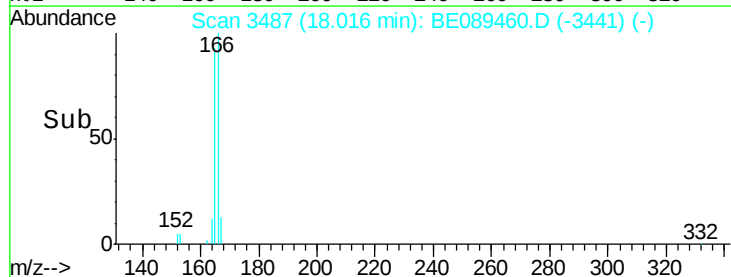
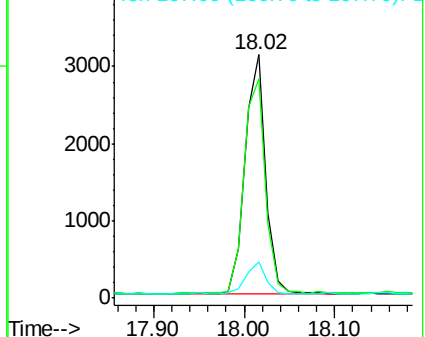
167 13.4 10.6 15.8



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

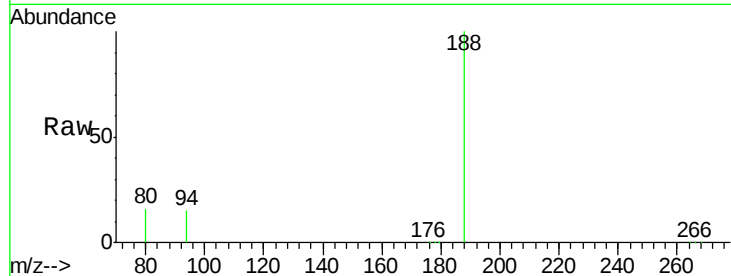




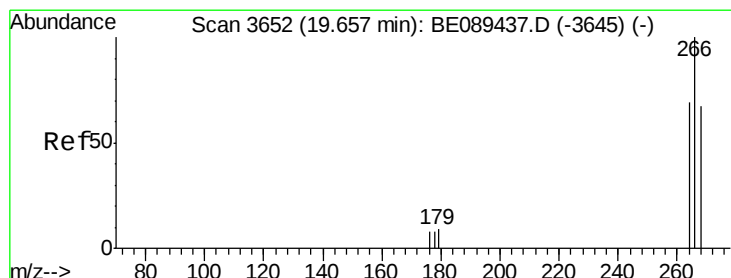
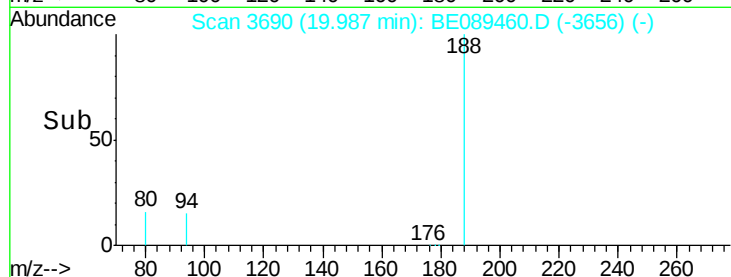
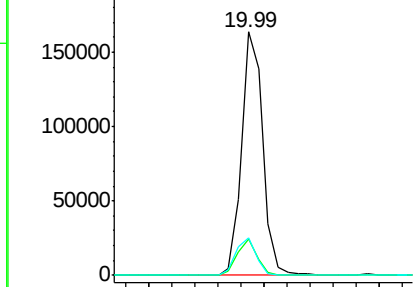
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089460.D
Acq: 31 Jan 2015 7:03

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
188	100		
94	14.7	9.4	14.0#
80	15.7	9.3	13.9#

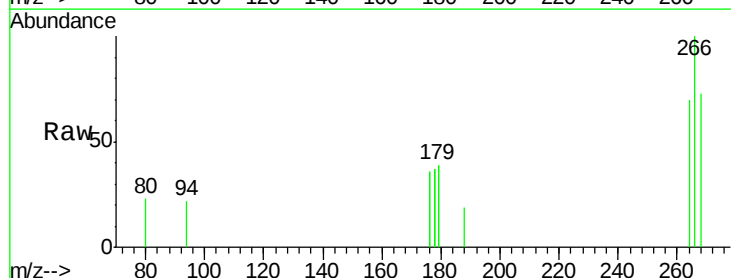


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

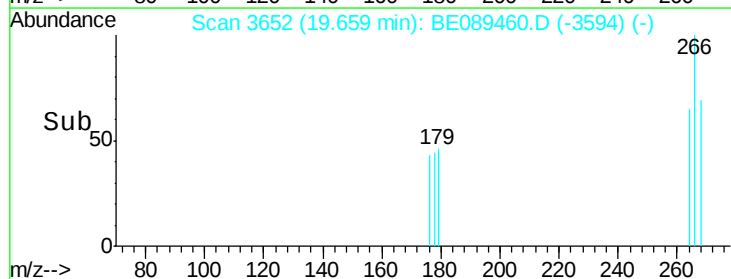
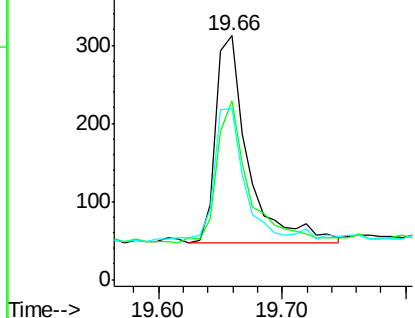


#12
Pentachlorophenol
Concen: 0.08 ng
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089460.D
Acq: 31 Jan 2015 7:03

Tgt Ion	Ratio	Lower	Upper
266	100		
268	73.4	54.2	81.4
264	70.2	56.2	84.2



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





#13

Phenanthrene

Concen: 0.16 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

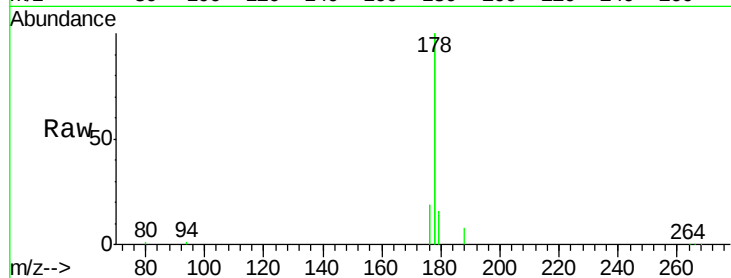
Tgt Ion:178 Resp: 32417

Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

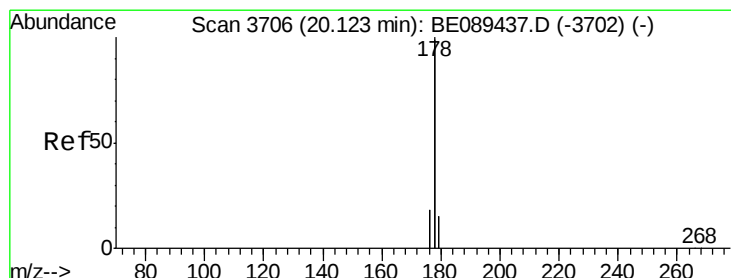
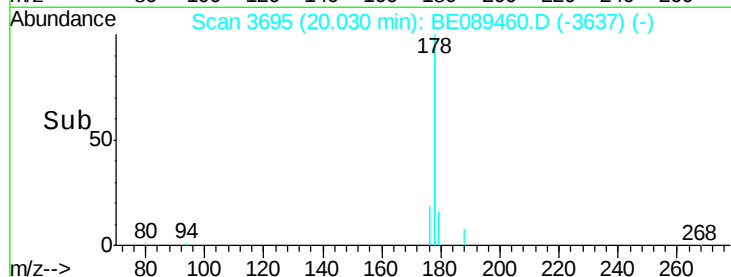
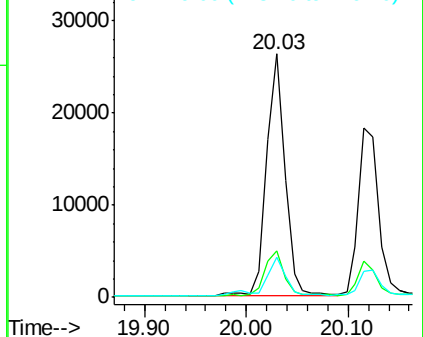
179 16.9 12.3 18.5



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: 0.14 ng

RT: 20.12 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

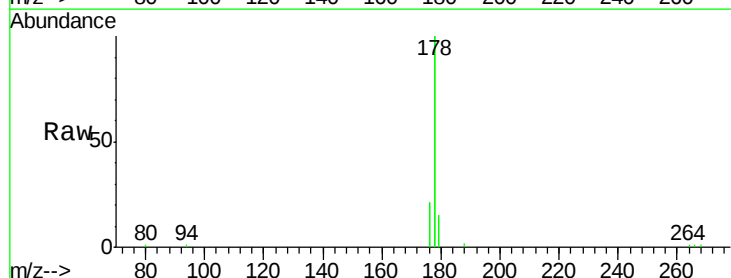
Tgt Ion:178 Resp: 25394

Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

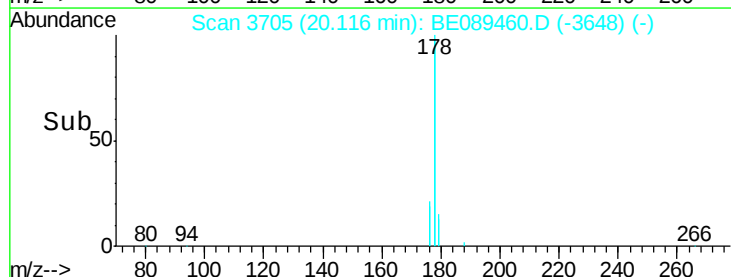
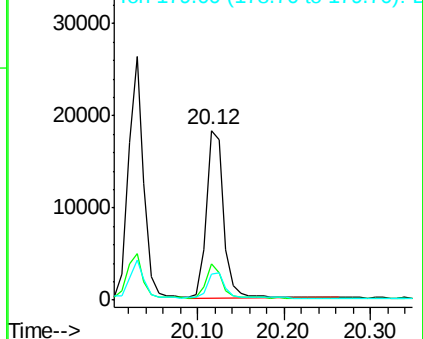
179 14.6 12.2 18.2

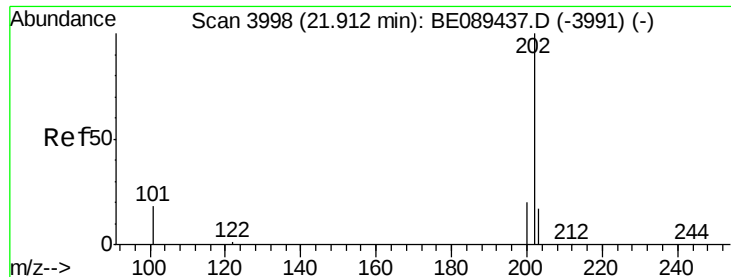


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

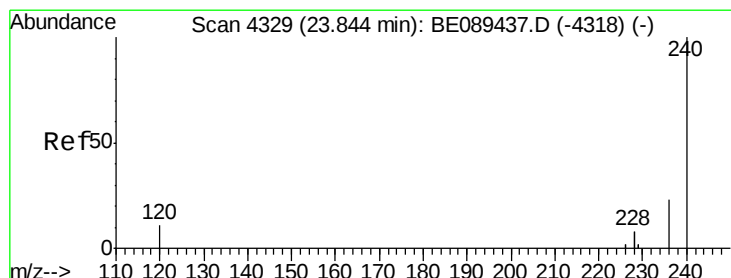
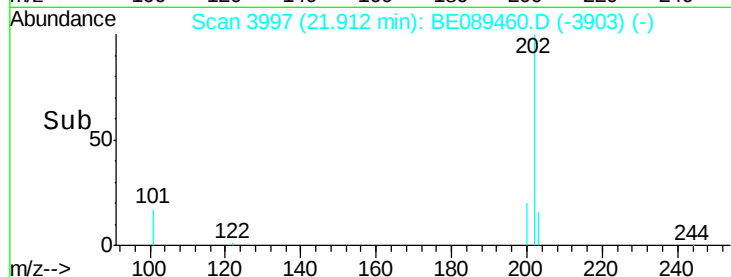
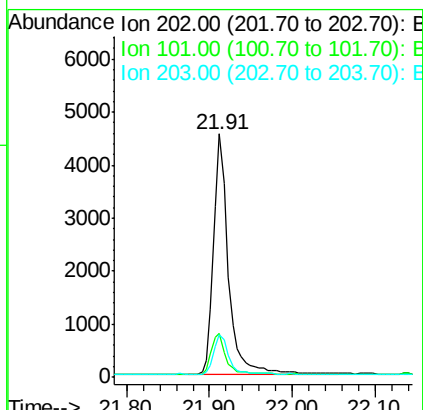
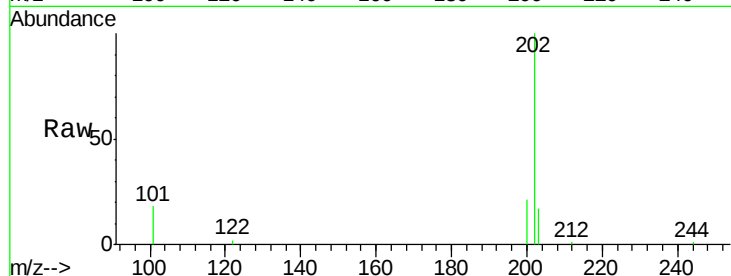




#15
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. 0.00 min
 Lab File: BE089460.D
 Acq: 31 Jan 2015 7:03

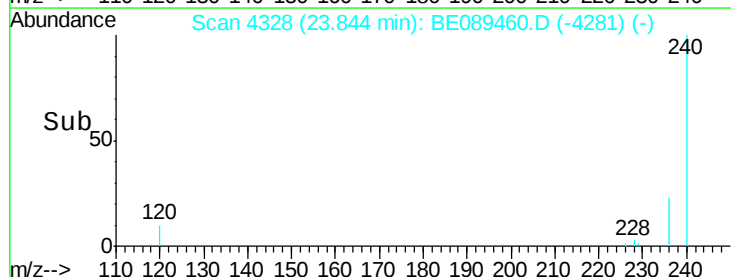
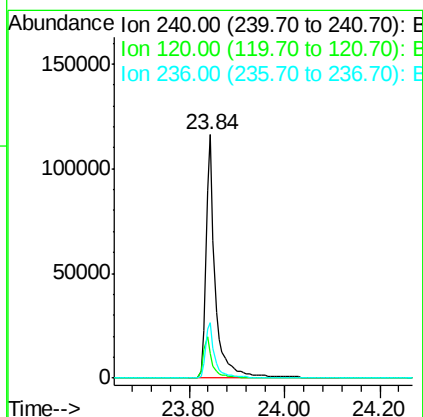
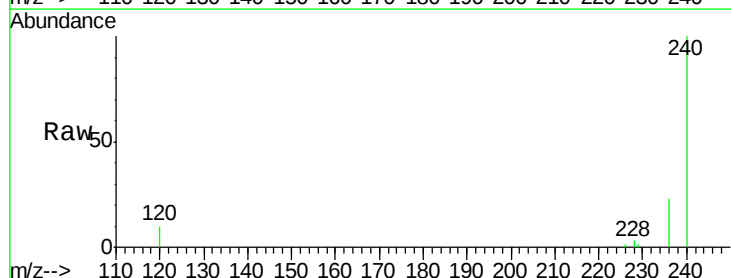
Instrument :
 BNA_E
 ClientSampleId :

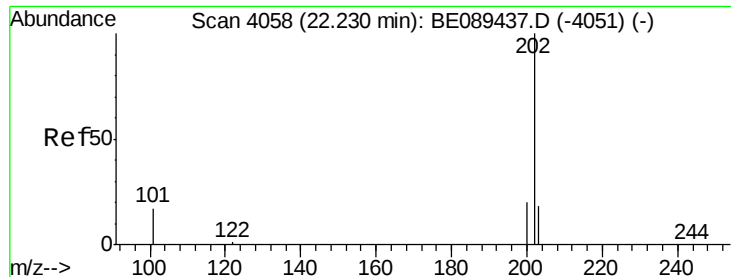
Tgt Ion: 202 Resp: 5729
 Ion Ratio Lower Upper
 202 100
 101 16.5 13.6 20.4
 203 16.7 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4328
 Delta R.T. -0.00 min
 Lab File: BE089460.D
 Acq: 31 Jan 2015 7:03

Tgt Ion: 240 Resp: 159825
 Ion Ratio Lower Upper
 240 100
 120 10.1 8.6 13.0
 236 23.0 18.7 28.1





#17

Pyrene

Concen: 0.14 ng

RT: 22.23 min Scan# 4057

Delta R.T. 0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

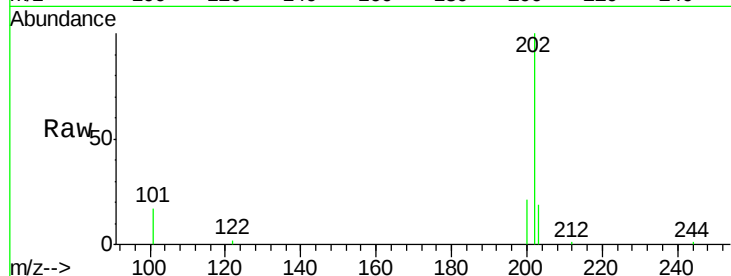
Tgt Ion:202 Resp: 6106

Ion Ratio Lower Upper

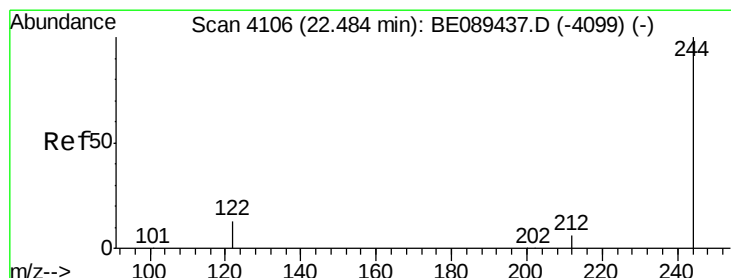
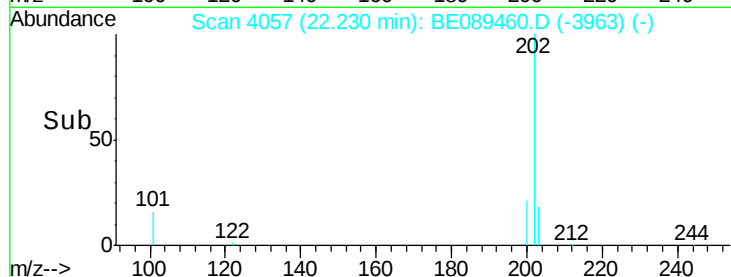
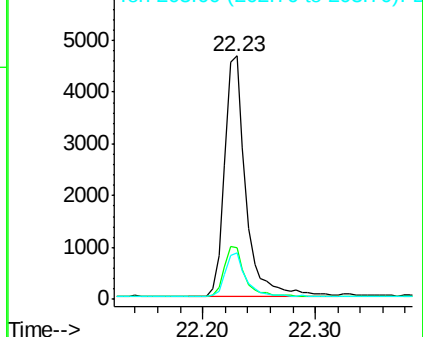
202 100

200 20.7 16.2 24.4

203 17.6 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 7.96 ng

RT: 22.48 min Scan# 4105

Delta R.T. 0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

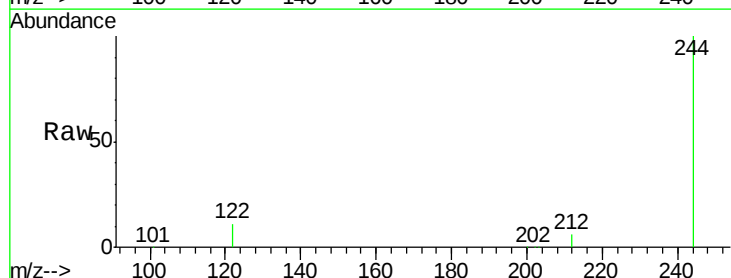
Tgt Ion:244 Resp: 190440

Ion Ratio Lower Upper

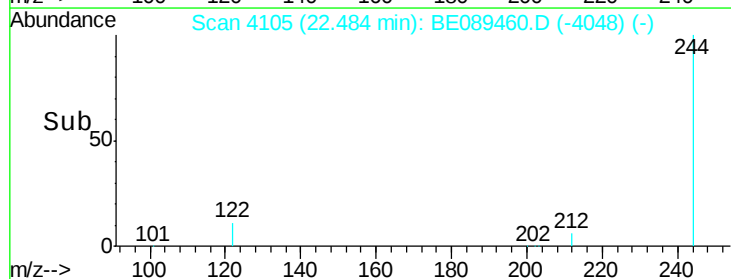
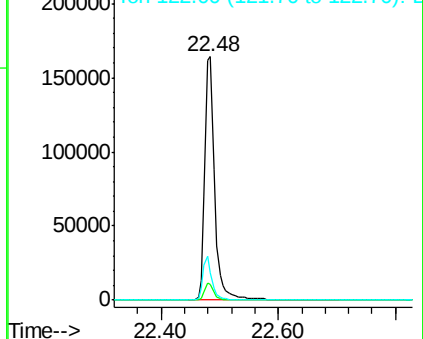
244 100

212 6.4 5.0 7.6

122 11.3 10.2 15.4



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.12 ng

RT: 23.83 min Scan# 4326

Delta R.T. -0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

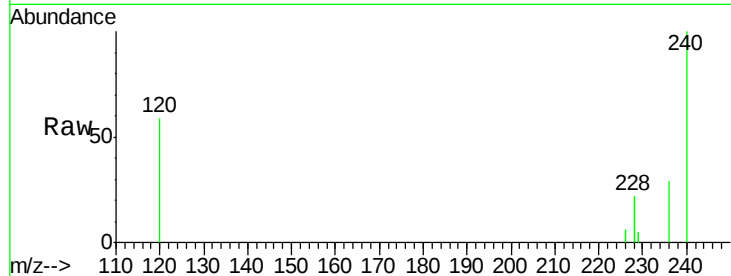
Tgt Ion:228 Resp: 16520

Ion Ratio Lower Upper

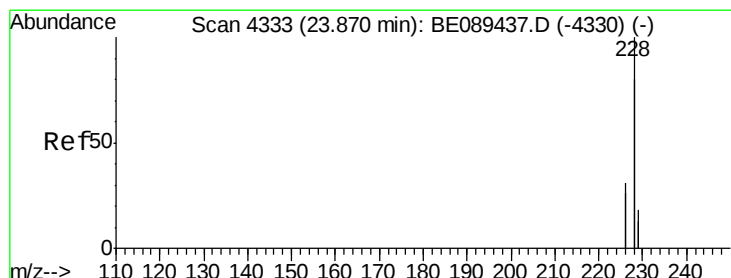
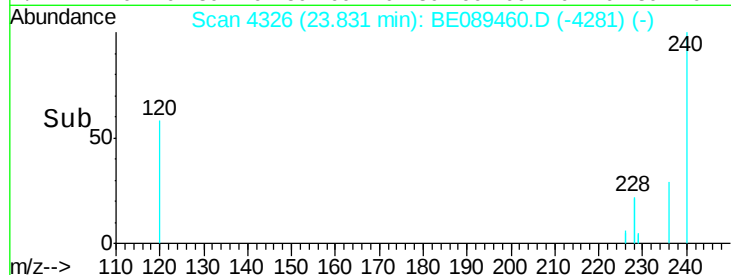
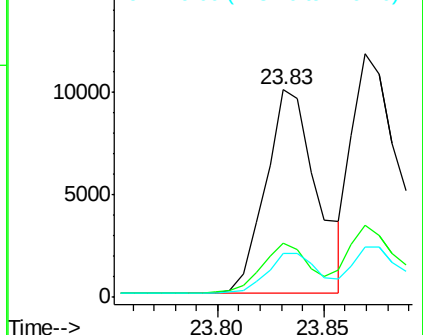
228 100

226 26.4 20.0 30.0

229 21.0 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: 0.16 ng

RT: 23.87 min Scan# 4332

Delta R.T. -0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

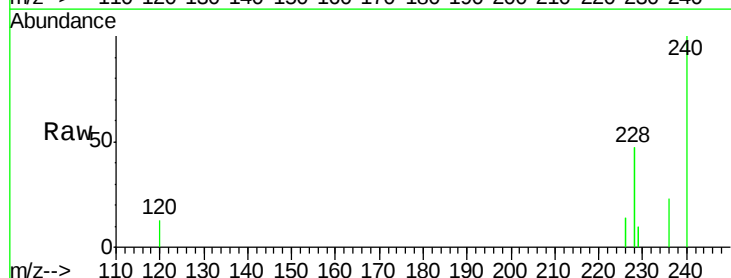
Tgt Ion:228 Resp: 24246

Ion Ratio Lower Upper

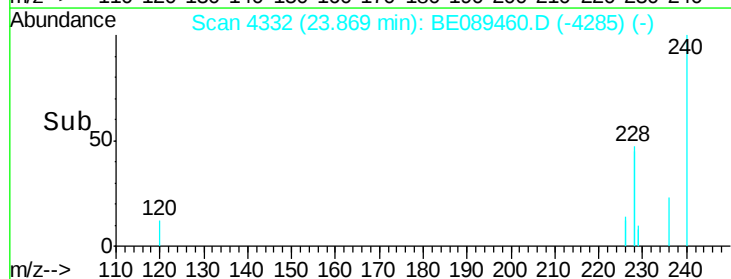
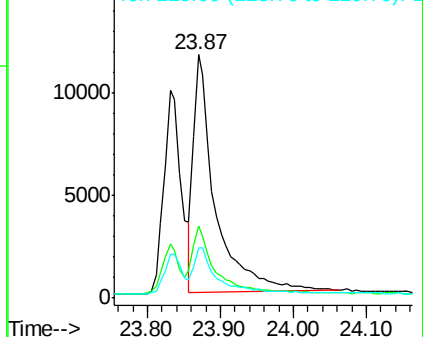
228 100

226 29.9 24.5 36.7

229 20.5 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

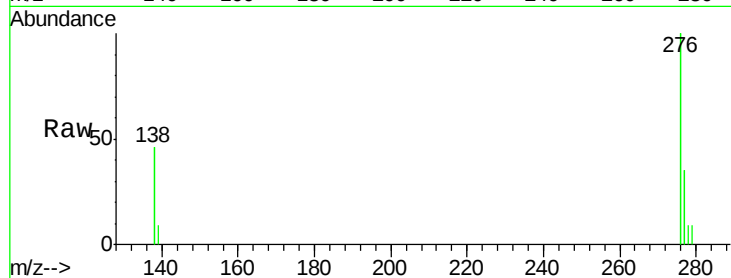
Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :



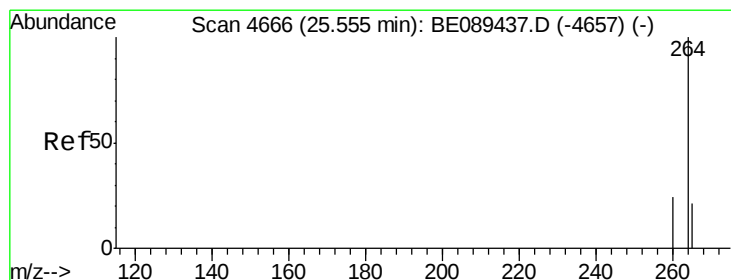
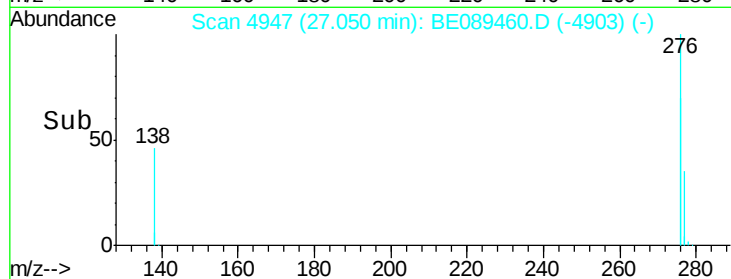
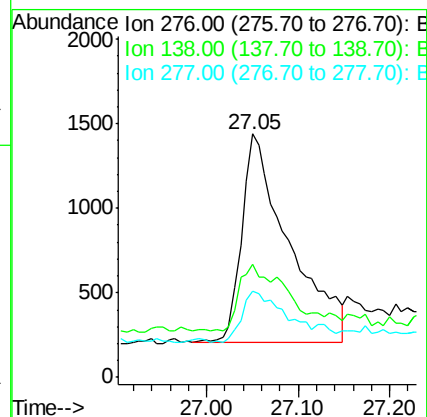
Tgt Ion:276 Resp: 4393

Ion Ratio Lower Upper

276 100

138 34.7 25.4 38.0

277 22.4 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4665

Delta R.T. 0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

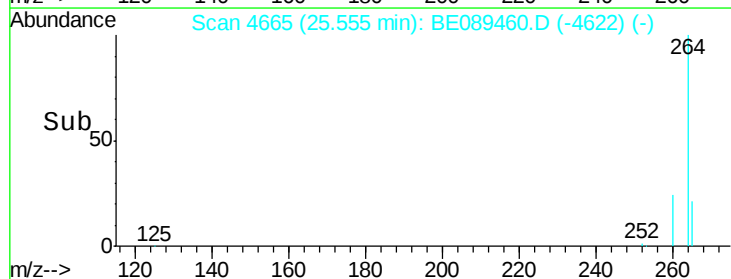
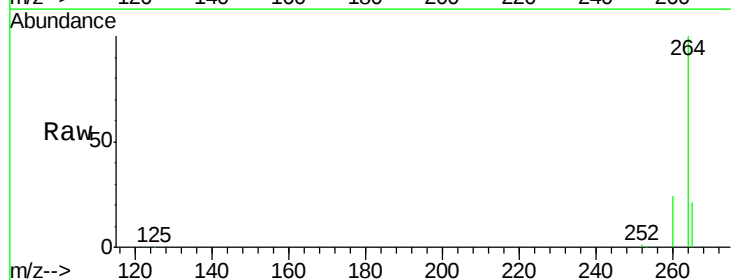
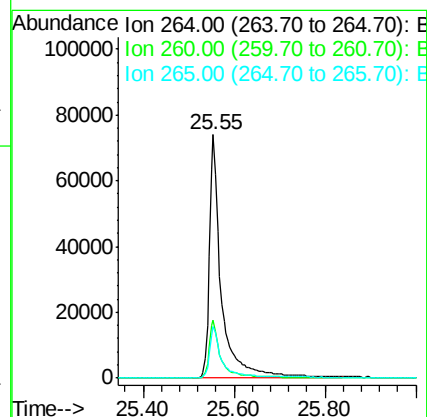
Tgt Ion:264 Resp: 136703

Ion Ratio Lower Upper

264 100

260 23.7 19.4 29.0

265 21.3 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.23 ng

RT: 25.09 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089460.D

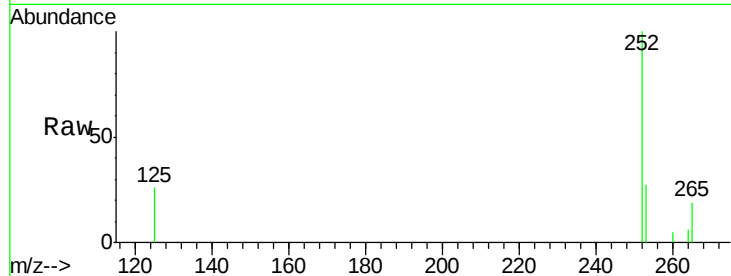
Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	1058
Ion	Ratio	Lower	Upper
252	100		
253	27.3	17.0	25.6#
125	25.6	11.4	17.0#

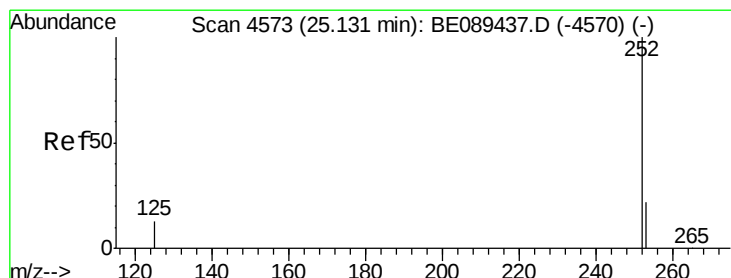
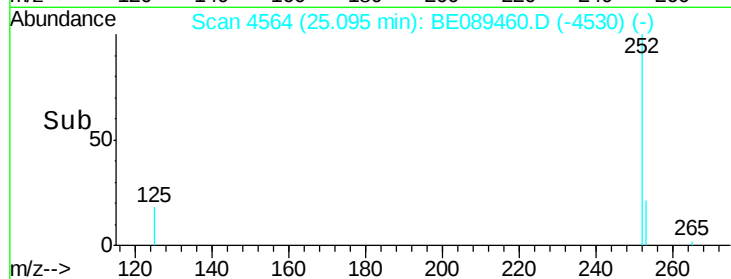
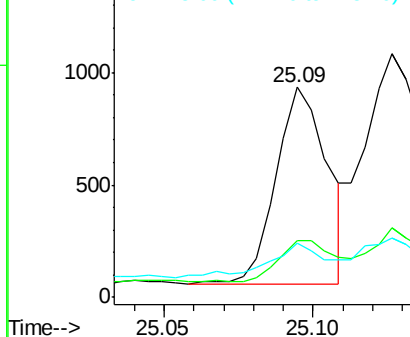


Abundance

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: 0.06 ng

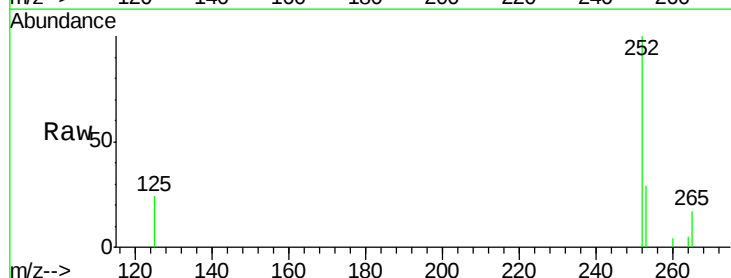
RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Tgt Ion:	252	Resp:	2080
Ion	Ratio	Lower	Upper
252	100		
253	28.6	17.4	26.2#
125	24.3	10.9	16.3#

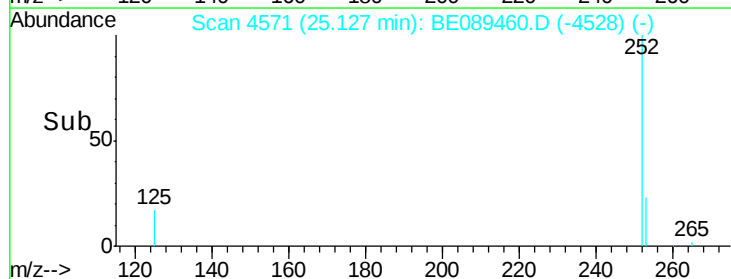
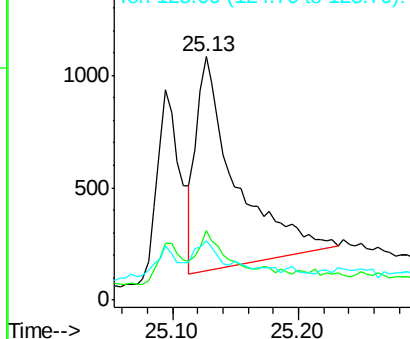


Abundance

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: 0.17 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.00 min

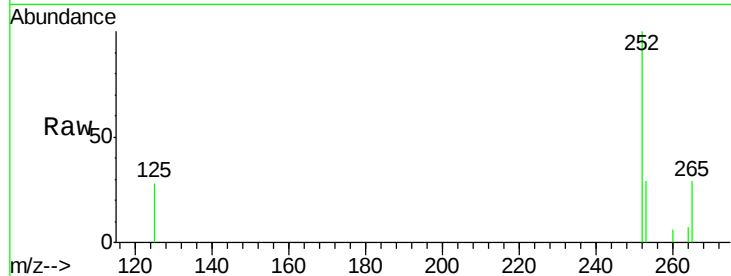
Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

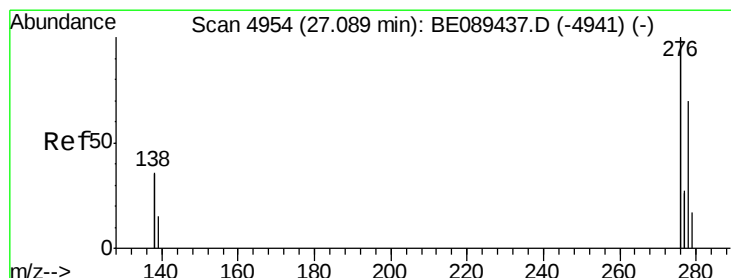
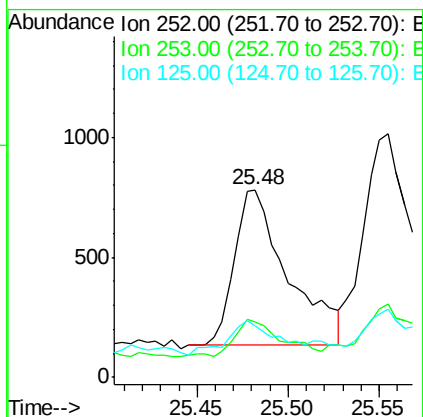
Instrument :

BNA_E

ClientSampled :



Tgt Ion:	252	Resp:	1320
Ion	Ratio	Lower	Upper
252	100		
253	29.4	17.3	25.9#
125	27.7	12.0	18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.16 ng

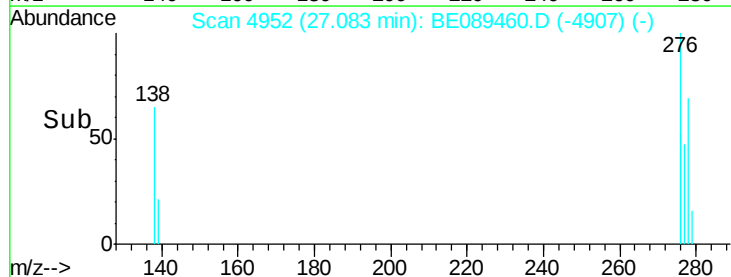
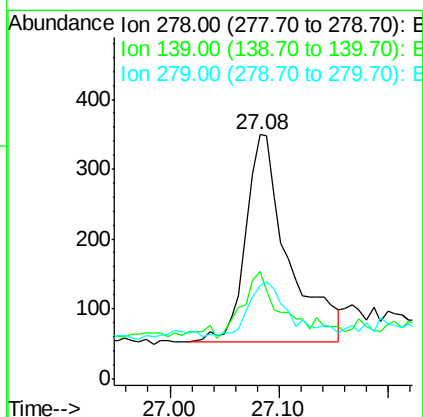
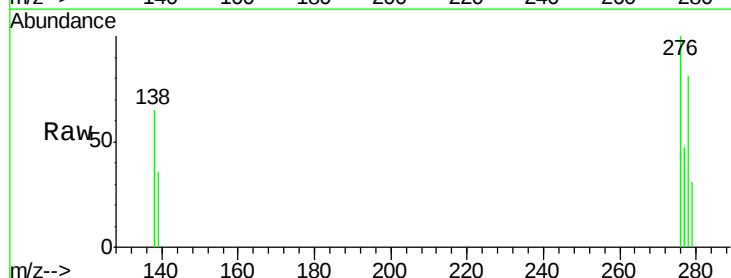
RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Tgt Ion:	278	Resp:	796
Ion	Ratio	Lower	Upper
278	100		
139	44.1	17.0	25.4#
279	38.4	19.1	28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.06 ng

RT: 27.51 min Scan# 5017

Delta R.T. 0.00 min

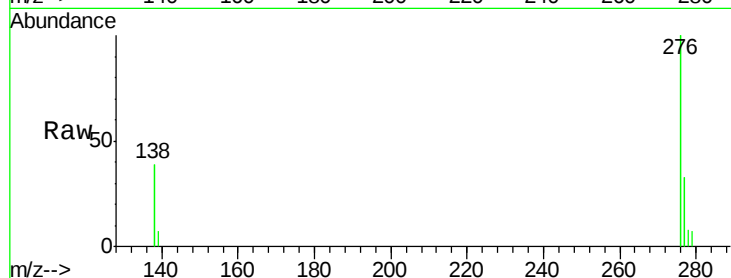
Lab File: BE089460.D

Acq: 31 Jan 2015 7:03

Instrument :

BNA_E

ClientSampleId :



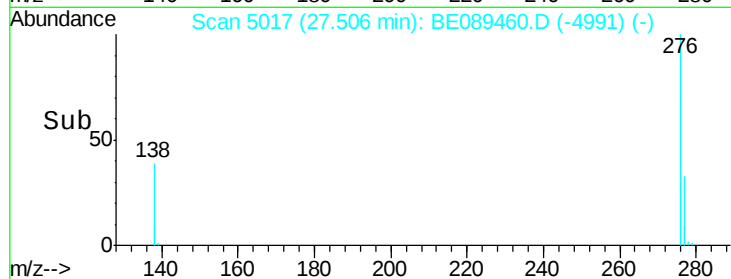
Tgt Ion: 276 Resp: 6365

Ion Ratio Lower Upper

276 100

277 32.7 18.4 27.6#

138 38.7 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

