

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089479.D
 Acq On : 31 Jan 2015 21:58
 Operator : TP/IZ
 Sample : MDL-04-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:42:00 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	71131	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	295197	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	153626	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	245713	5.00	ng	0.00
16) Chrysene-d12	23.84	240	193117	5.00	ng	0.00
22) Perylene-d12	25.55	264	162859	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	198301	10.15	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	333816	8.25	ng	0.00
18) Terphenyl-d14	22.48	244	286130	9.89	ng	0.00

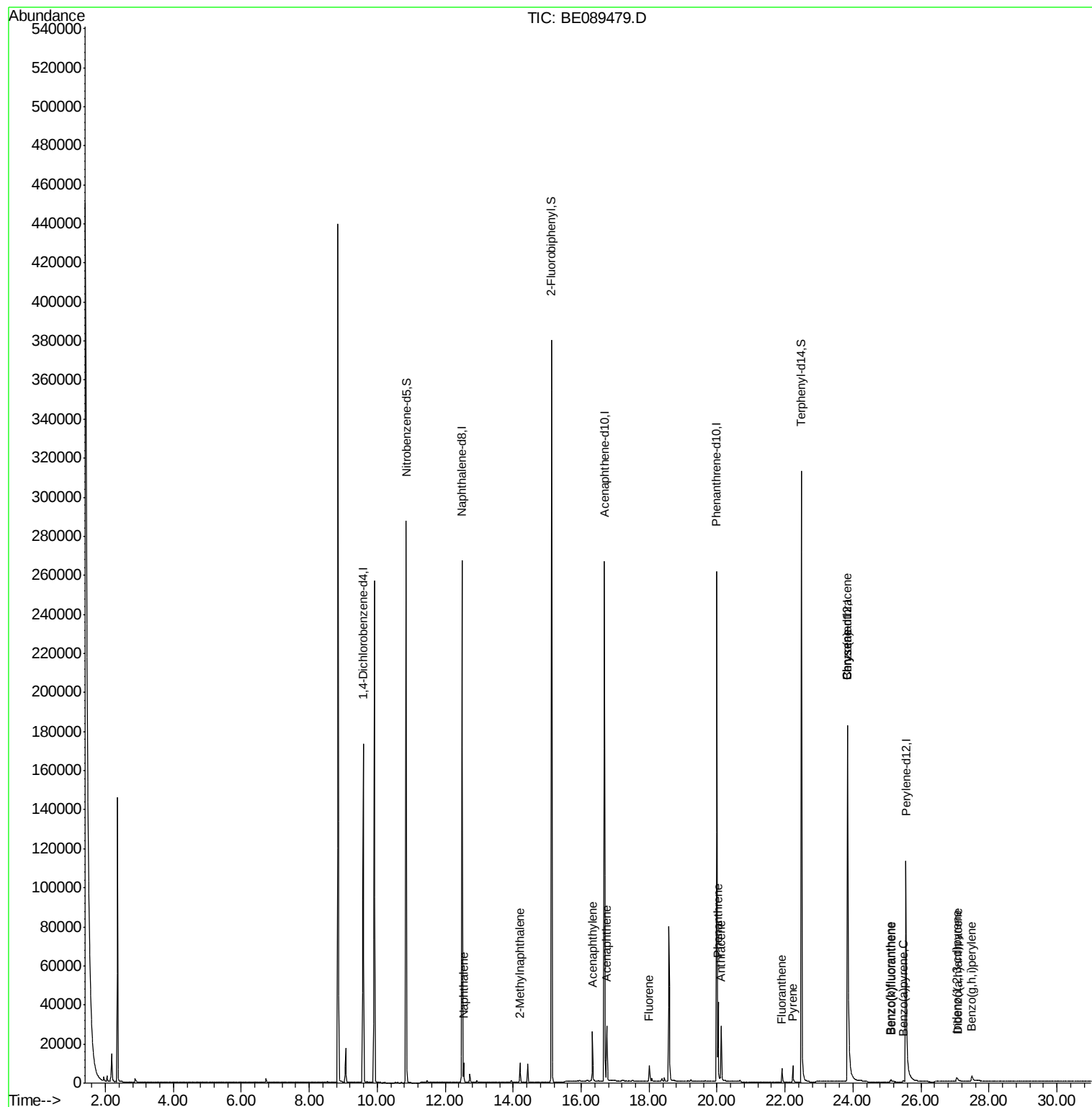
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	10882	0.16	ng	99
5) 2-Methylnaphthalene	14.20	142	6224	0.15	ng	98
8) Acenaphthylene	16.34	152	33517	0.12	ng	99
9) Acenaphthene	16.75	154	5863	0.14	ng	97
10) Fluorene	18.00	166	5986	0.13	ng	100
12) Pentachlorophenol	19.66	266	164	Below Cal		96
13) Phenanthrene	20.03	178	37845	0.16	ng	98
14) Anthracene	20.12	178	30353	0.14	ng	99
15) Fluoranthene	21.91	202	6600	0.13	ng	99
17) Pyrene	22.22	202	7253	0.14	ng	100
19) Benzo(a)anthracene	23.83	228	17205	0.11	ng	97
20) Chrysene	23.83	228	17205	0.09	ng	94
21) Indeno(1,2,3-cd)pyrene	27.05	276	4115	0.03	ng	# 91
23) Benzo(b)fluoranthene	25.09	252	1024	0.22	ng	# 83
24) Benzo(k)fluoranthene	25.12	252	1910	0.05	ng	# 84
25) Benzo(a)pyrene	25.48	252	1346	0.16	ng	# 84
26) Dibenzo(a,h)anthracene	27.08	278	818	0.16	ng	# 74
27) Benzo(g,h,i)perylene	27.50	276	5468	0.04	ng	# 80

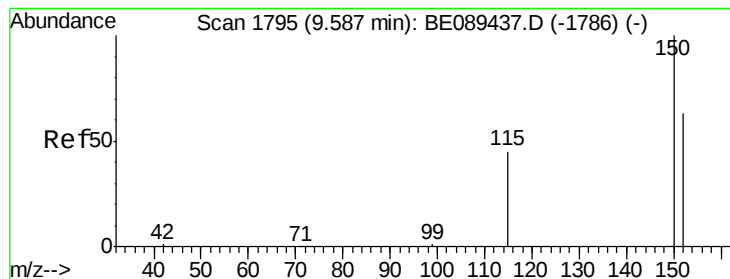
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :

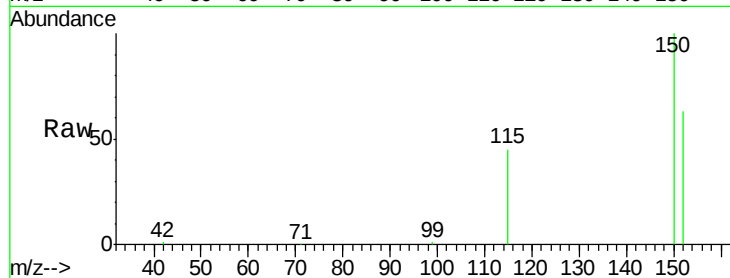
Tgt Ion:152 Resp: 71131

Ion Ratio Lower Upper

152 100

150 159.6 127.2 190.8

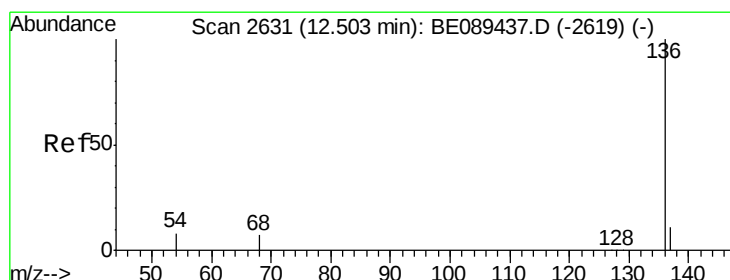
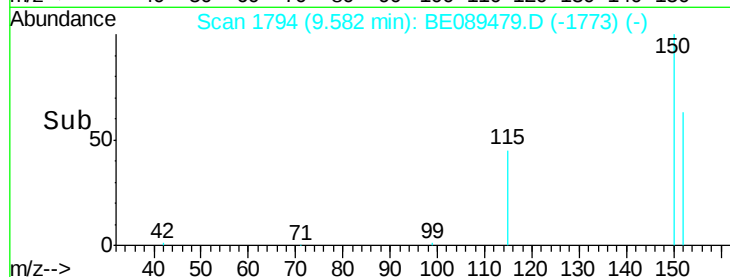
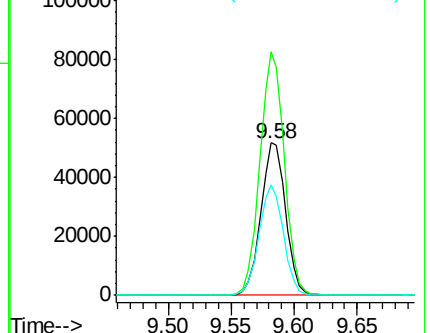
115 72.4 57.5 86.3



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: BE089479.D

Acq: 31 Jan 2015 21:58

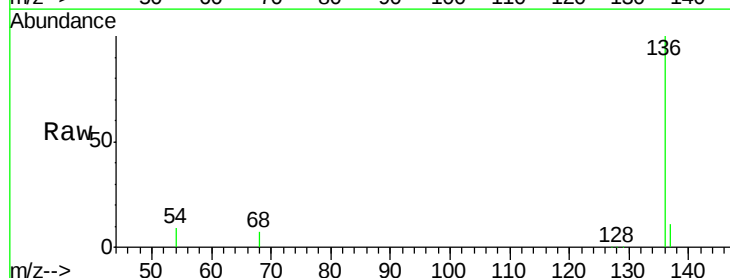
Tgt Ion:136 Resp: 295197

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

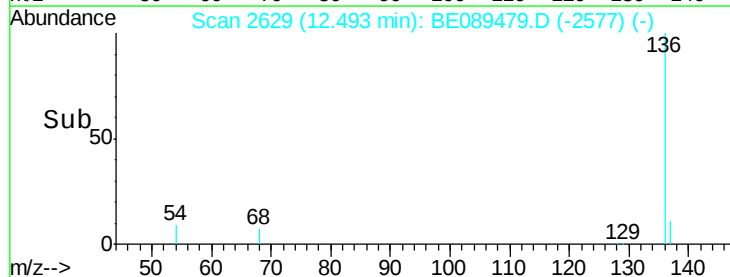
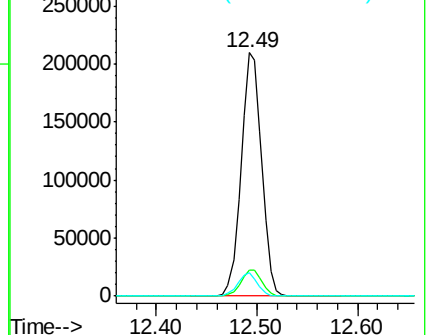
54 9.4 6.6 10.0



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: 10.15 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

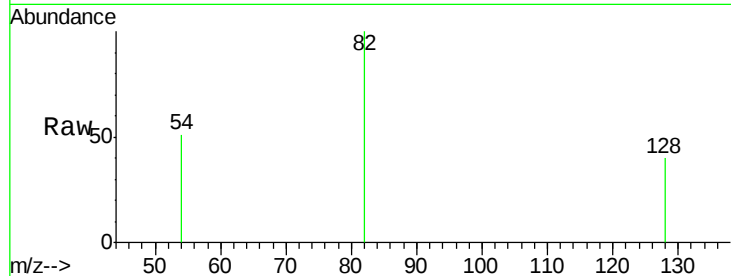
Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :



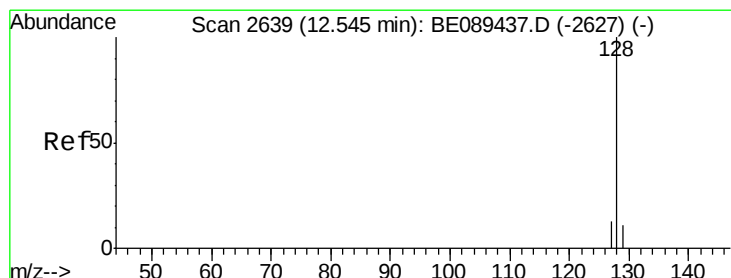
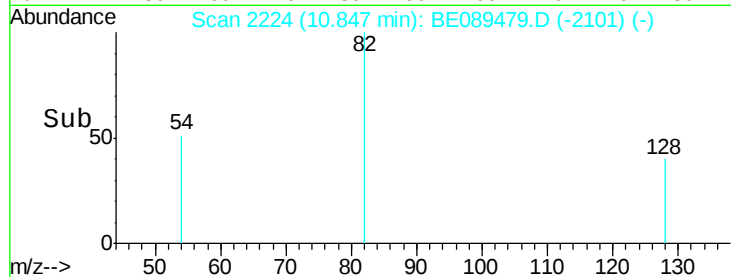
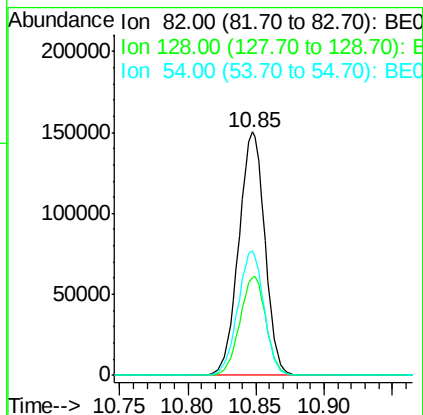
Tgt Ion: 82 Resp: 198301

Ion Ratio Lower Upper

82 100

128 40.2 31.2 46.8

54 51.2 41.9 62.9



#4

Naphthalene

Concen: 0.16 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

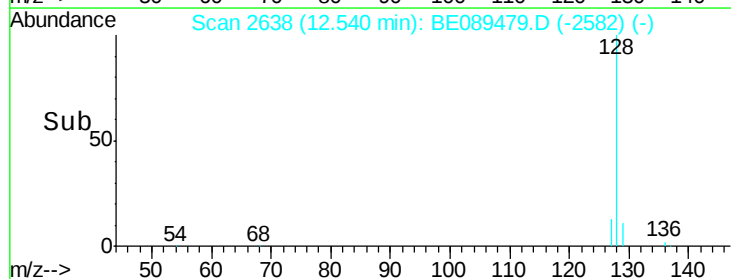
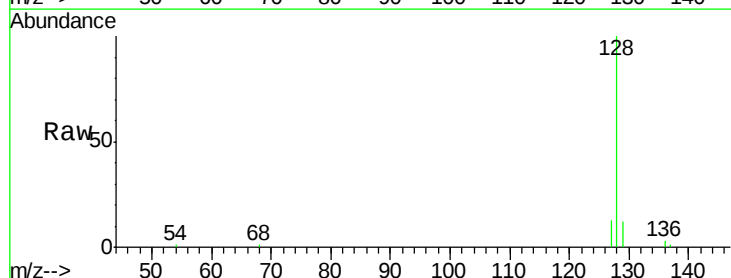
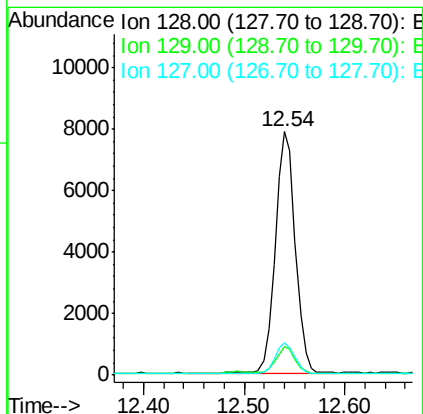
Tgt Ion: 128 Resp: 10882

Ion Ratio Lower Upper

128 100

129 12.0 8.8 13.2

127 13.3 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.15 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089479.D

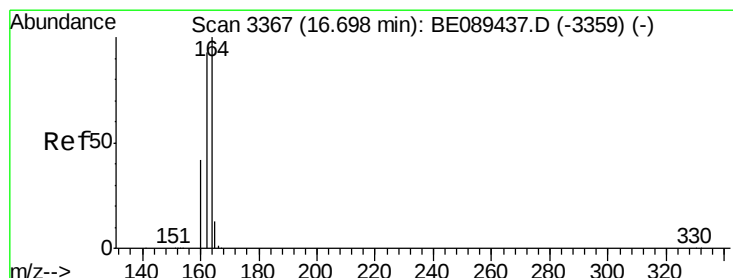
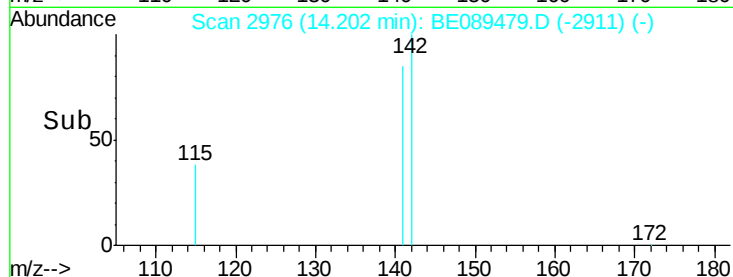
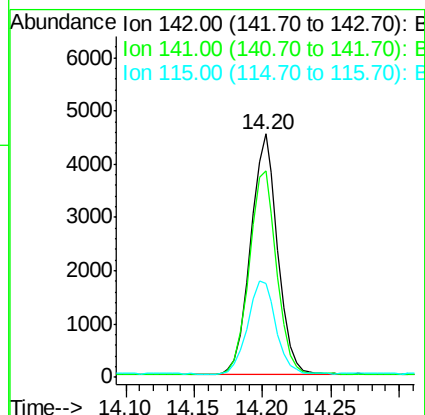
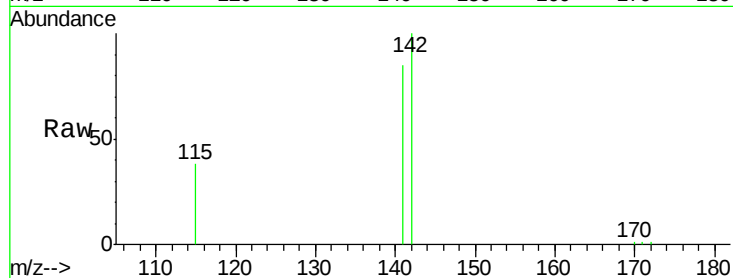
Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	6224
Ion Ratio	Lower	Upper	
142	100		
141	84.7	66.1	99.1
115	38.4	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

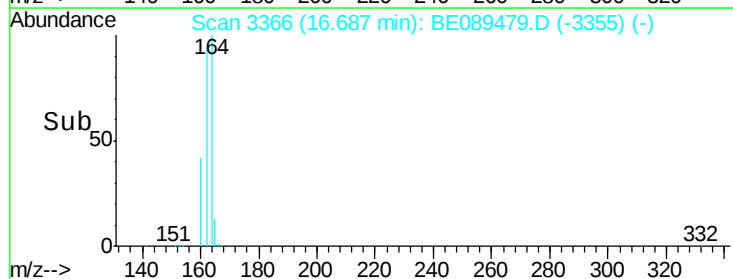
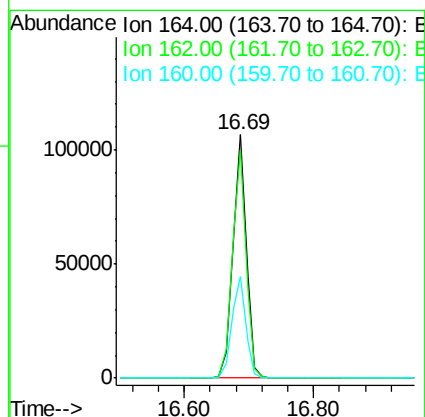
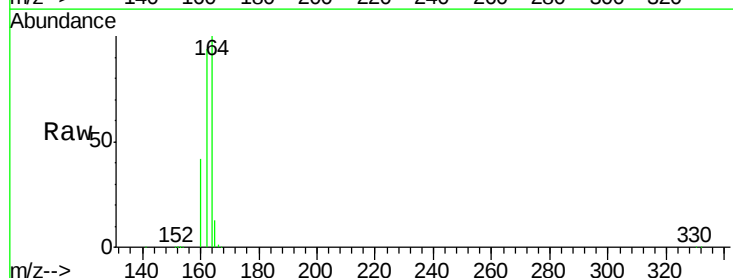
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Tgt Ion:	164	Resp:	153626
Ion Ratio	Lower	Upper	
164	100		
162	93.7	74.7	112.1
160	41.8	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.25 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :

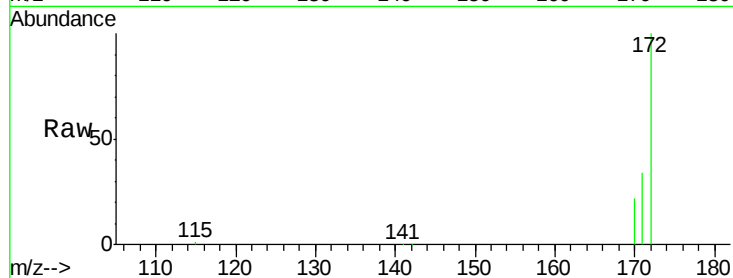
Tgt Ion:172 Resp: 333816

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.4

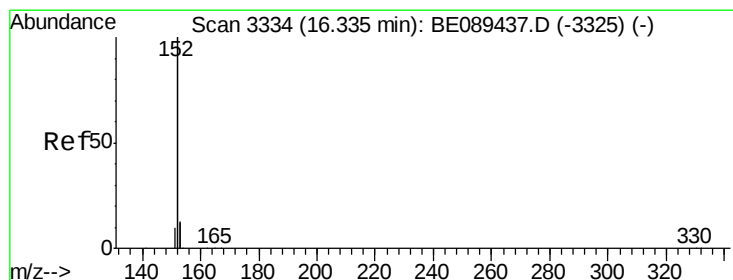
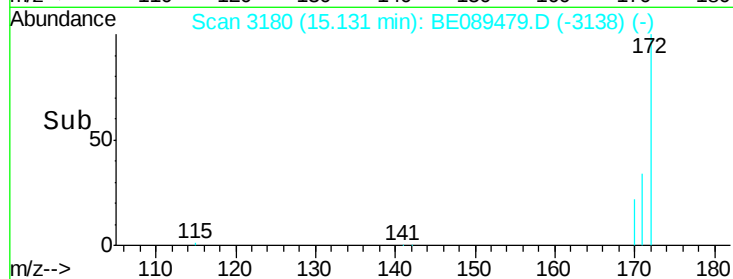
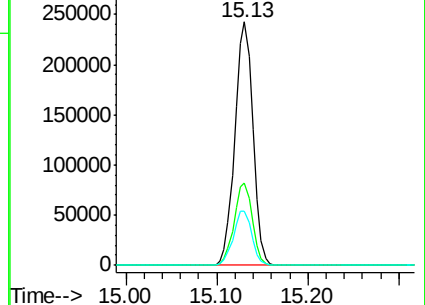
170 22.1 16.5 24.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.12 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

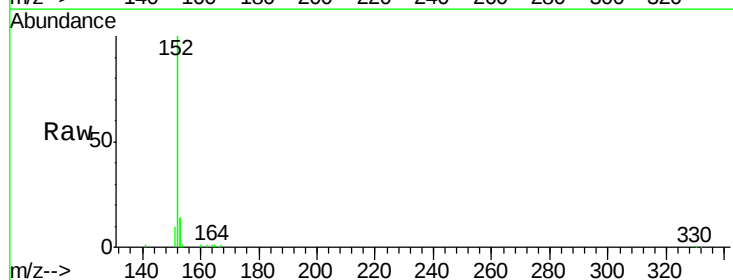
Tgt Ion:152 Resp: 33517

Ion Ratio Lower Upper

152 100

151 5.3 3.9 5.9

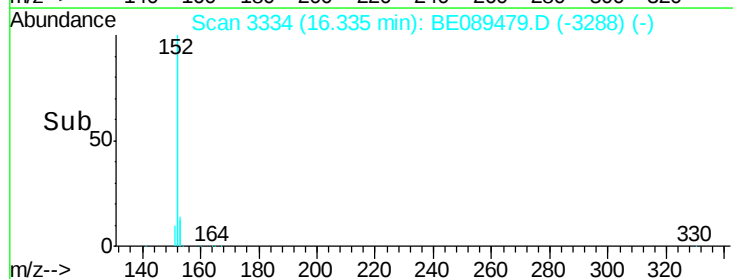
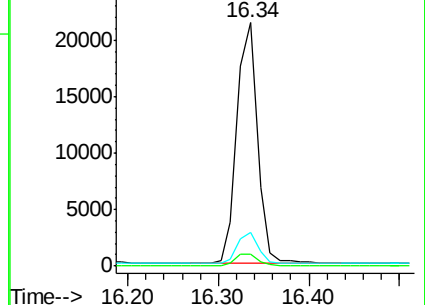
153 13.4 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.14 ng

RT: 16.75 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :

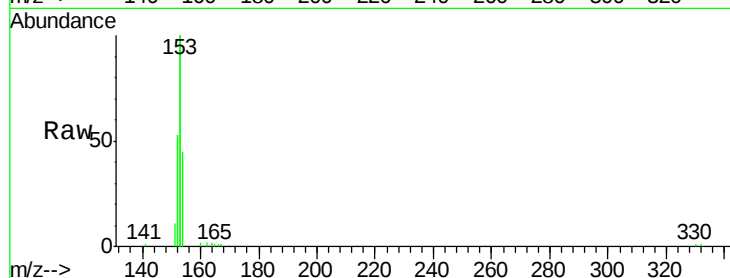
Tgt Ion:154 Resp: 5863

Ion Ratio Lower Upper

154 100

153 416.9 342.3 513.5

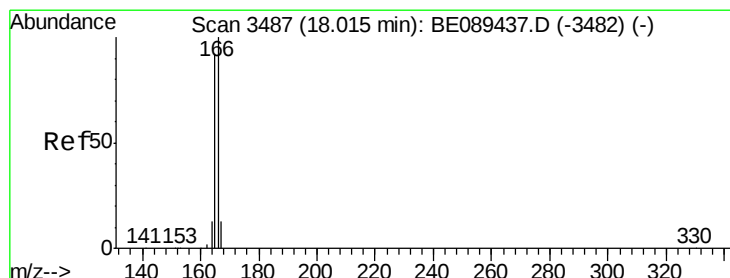
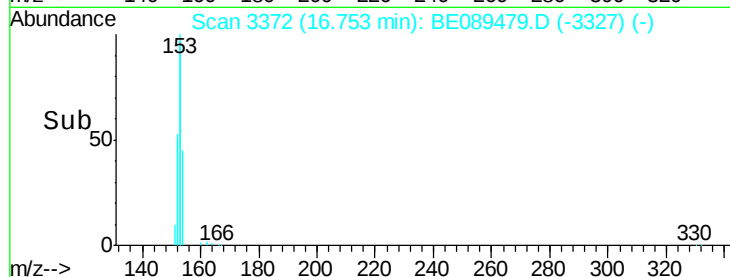
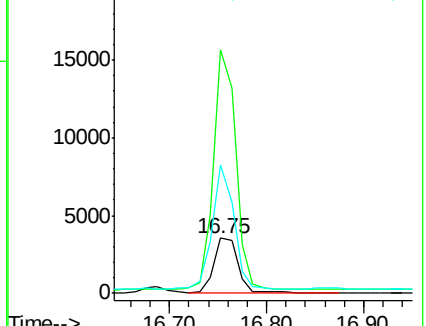
152 208.9 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.13 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

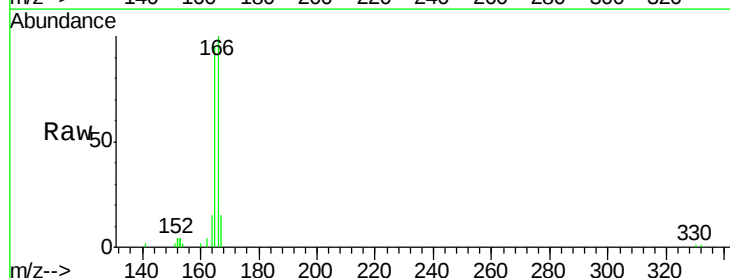
Tgt Ion:166 Resp: 5986

Ion Ratio Lower Upper

166 100

165 92.6 74.4 111.6

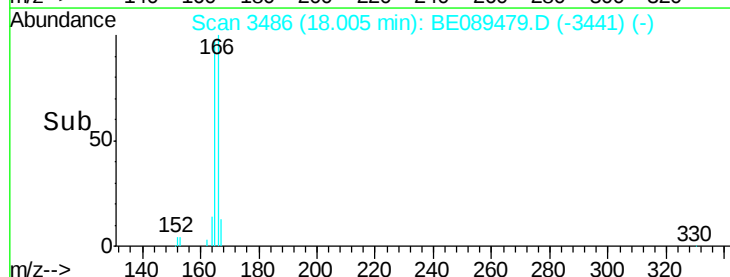
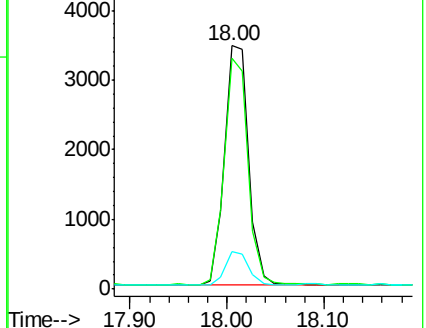
167 13.5 10.6 15.8

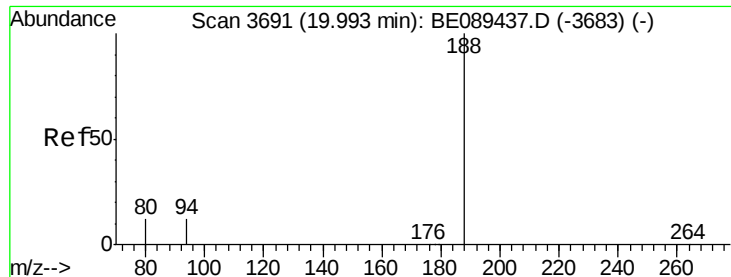


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

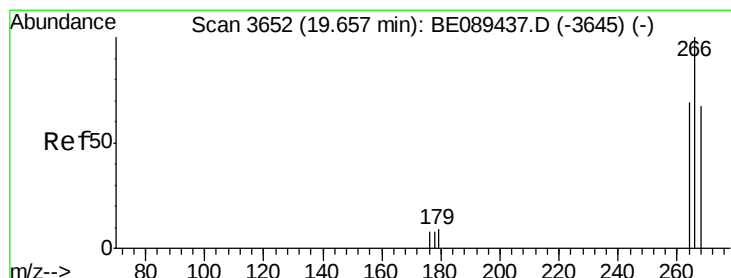
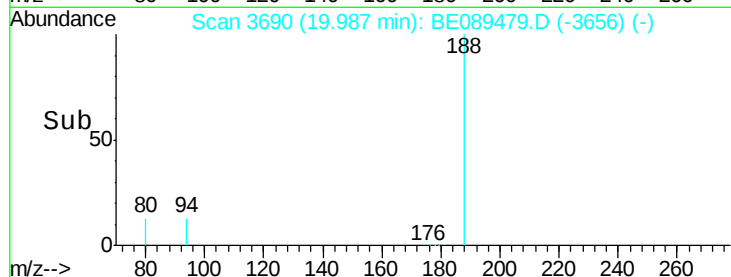
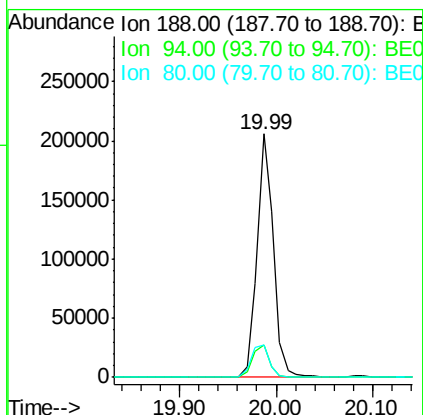
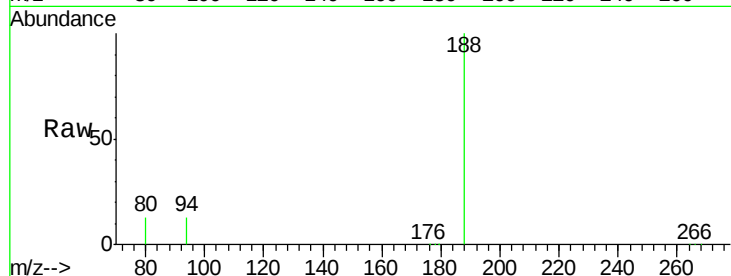




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089479.D
Acq: 31 Jan 2015 21:58

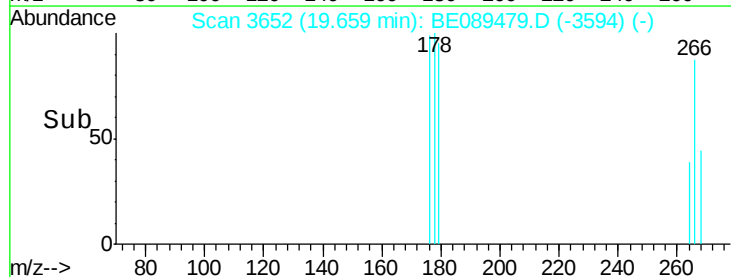
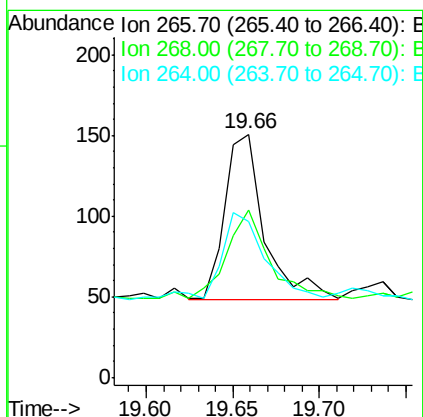
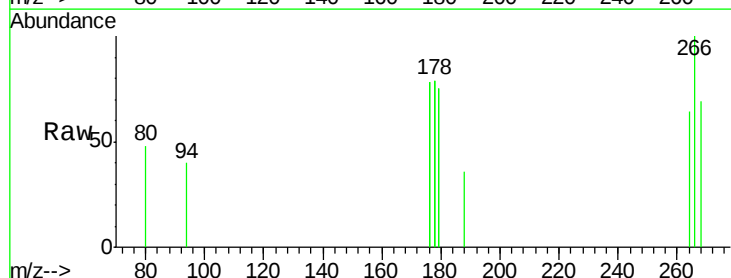
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 245713
Ion Ratio Lower Upper
188 100
94 13.1 9.4 14.0
80 13.5 9.3 13.9



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089479.D
Acq: 31 Jan 2015 21:58

Tgt Ion:266 Resp: 164
Ion Ratio Lower Upper
266 100
268 68.9 54.2 81.4
264 64.2 56.2 84.2





#13

Phenanthrene

Concen: 0.16 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :

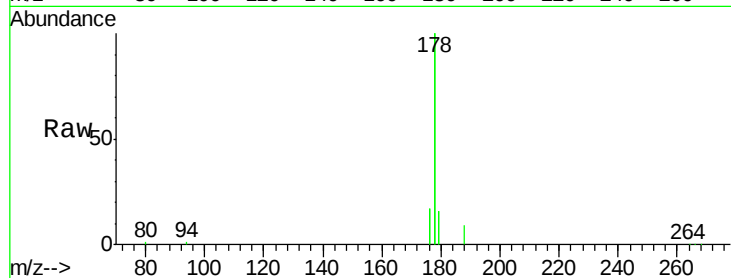
Tgt Ion:178 Resp: 37845

Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

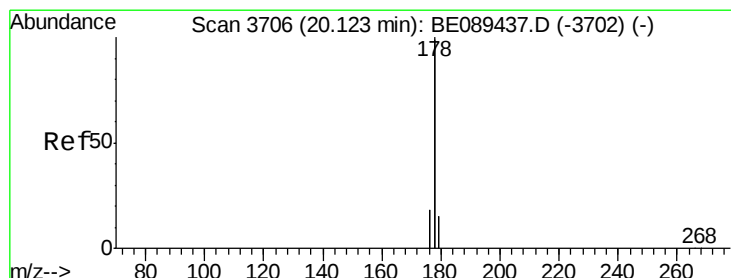
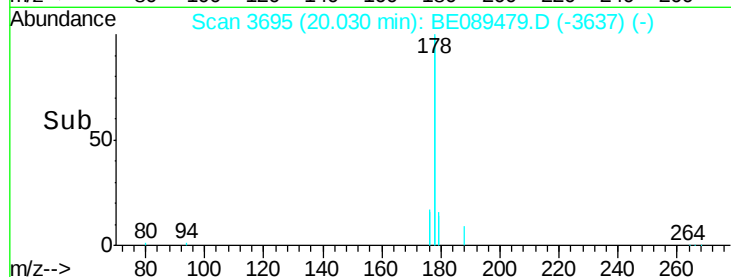
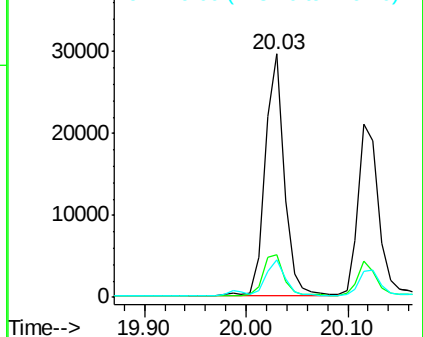
179 16.9 12.3 18.5



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: BE089479.D

Acq: 31 Jan 2015 21:58

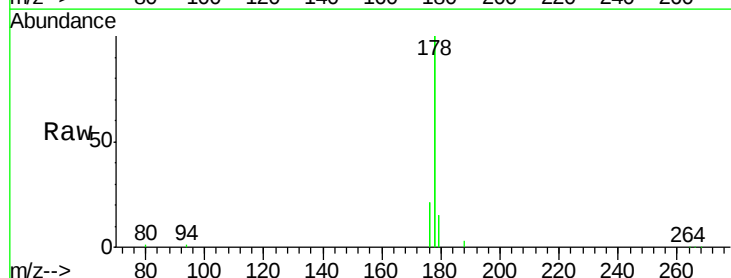
Tgt Ion:178 Resp: 30353

Ion Ratio Lower Upper

178 100

176 17.7 14.6 22.0

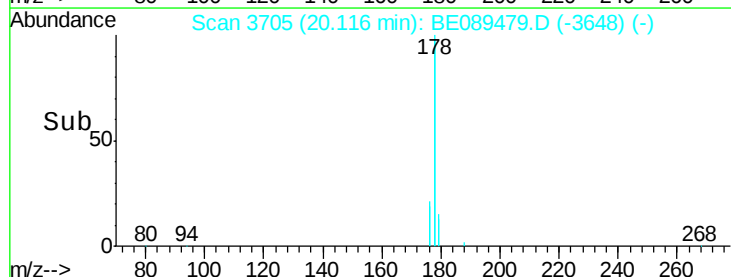
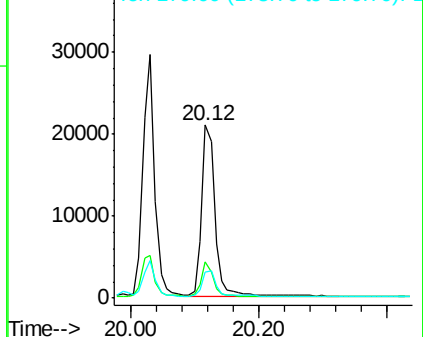
179 14.9 12.2 18.2

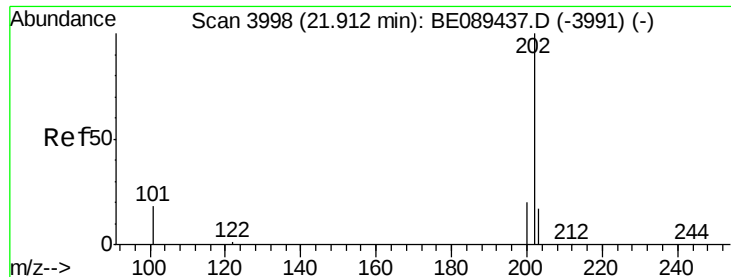


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

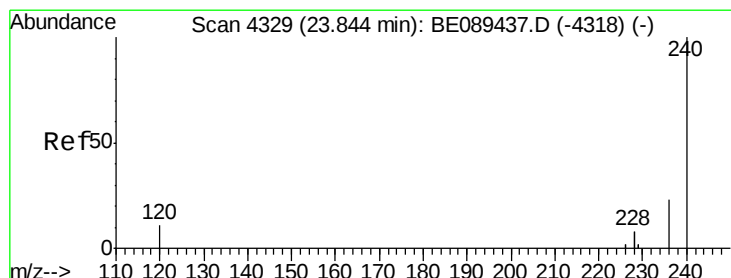
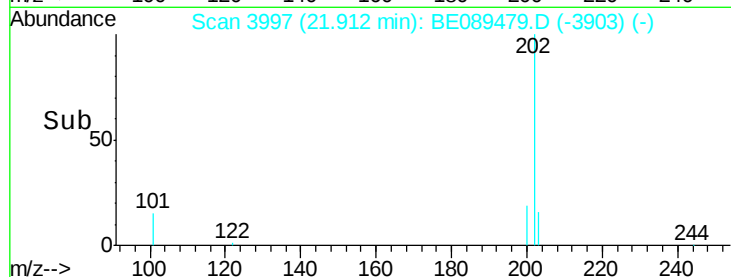
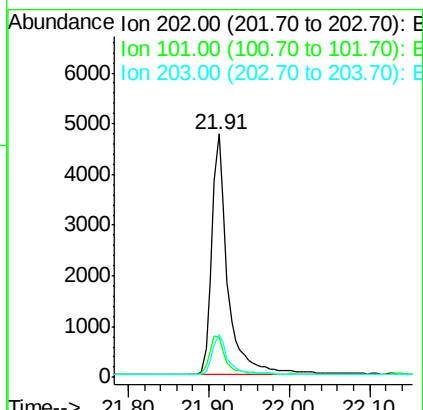
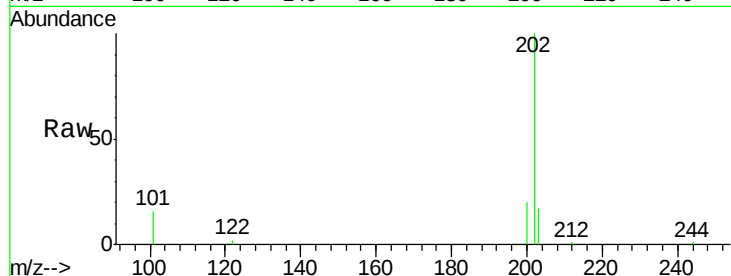




#15
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. 0.00 min
 Lab File: BE089479.D
 Acq: 31 Jan 2015 21:58

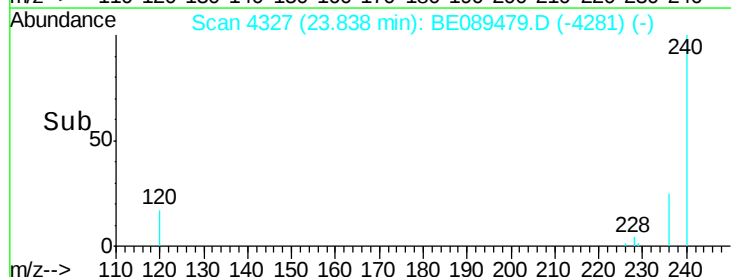
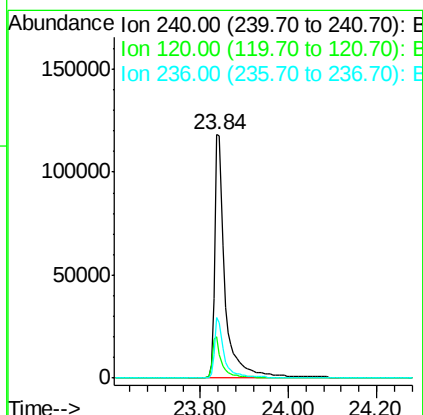
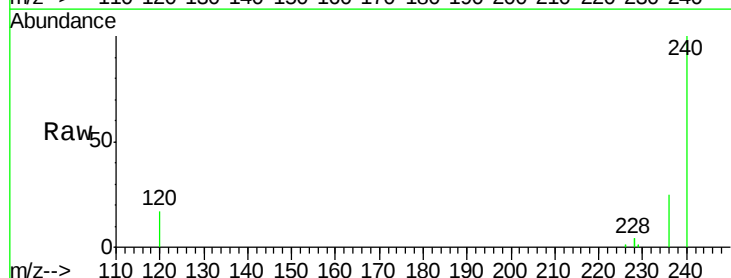
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 6600
 Ion Ratio Lower Upper
 202 100
 101 16.6 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: BE089479.D
 Acq: 31 Jan 2015 21:58

Tgt Ion:240 Resp: 193117
 Ion Ratio Lower Upper
 240 100
 120 17.2 8.6 13.0#
 236 25.1 18.7 28.1

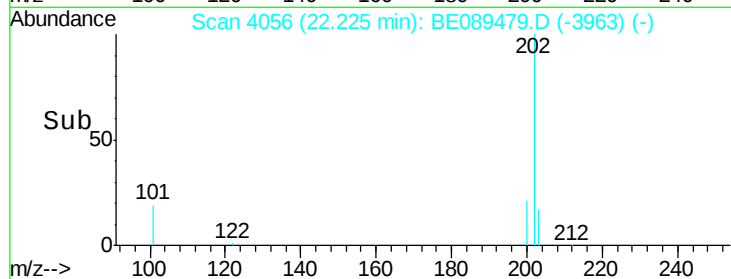
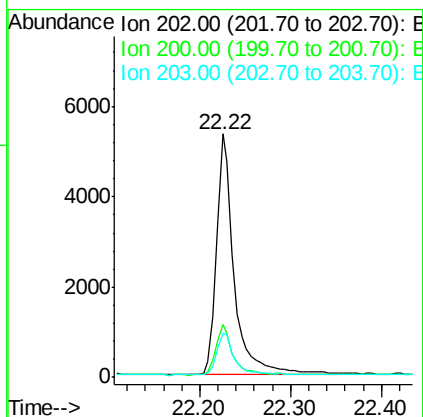
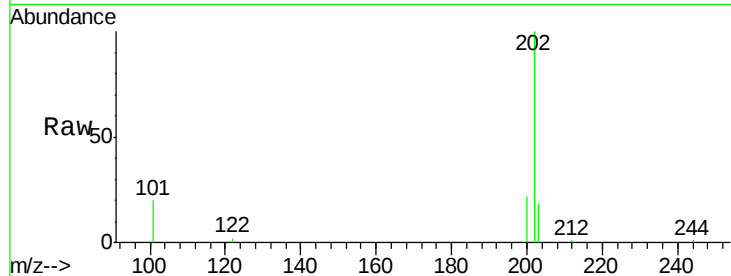




#17
 Pyrene
 Concen: 0.14 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089479.D
 Acq: 31 Jan 2015 21:58

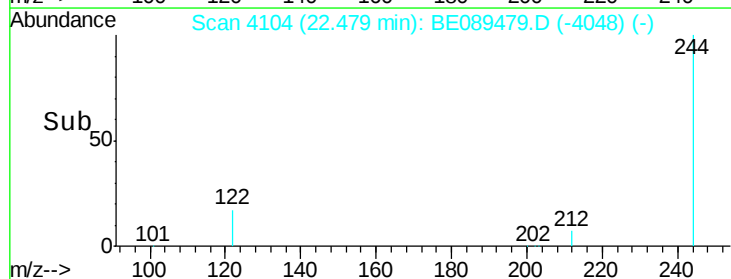
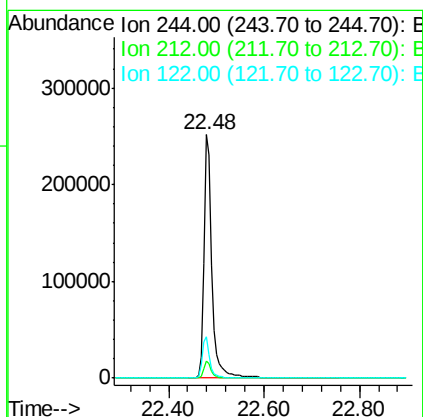
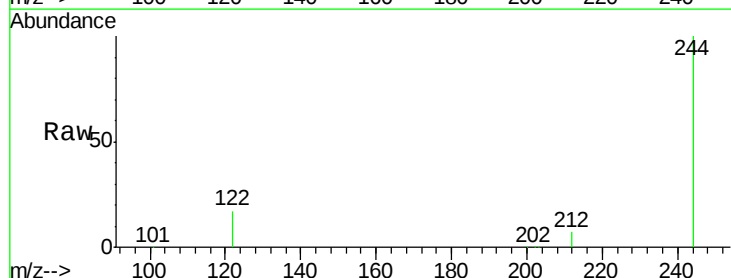
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 7253
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.4
 203 17.6 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.89 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089479.D
 Acq: 31 Jan 2015 21:58

Tgt Ion:244 Resp: 286130
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.0 7.6
 122 16.8 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.83 min Scan# 4326

Delta R.T. -0.00 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :

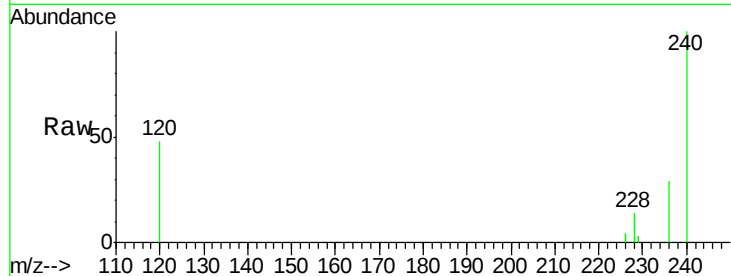
Tgt Ion:228 Resp: 17205

Ion Ratio Lower Upper

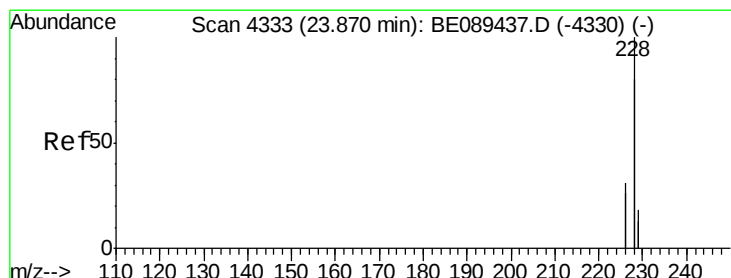
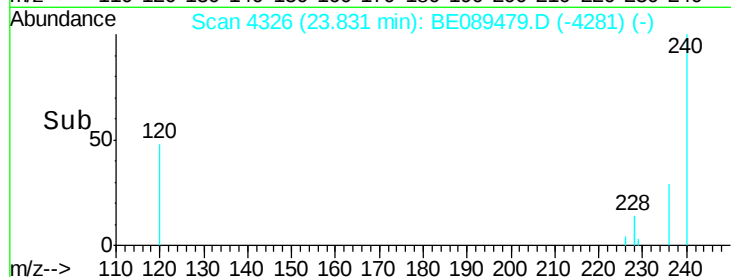
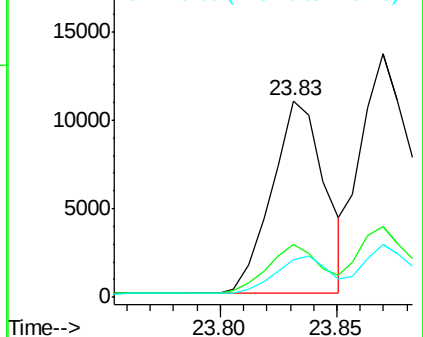
228 100

226 27.1 20.0 30.0

229 19.4 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: 0.09 ng

RT: 23.83 min Scan# 4326

Delta R.T. -0.04 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

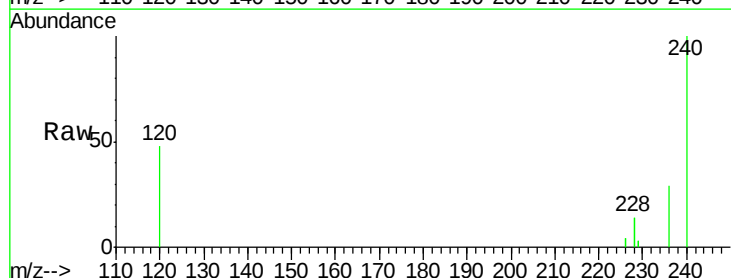
Tgt Ion:228 Resp: 17205

Ion Ratio Lower Upper

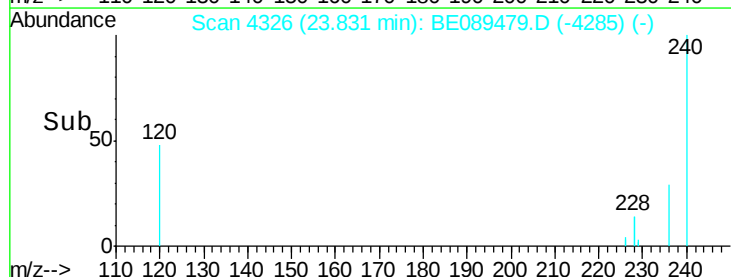
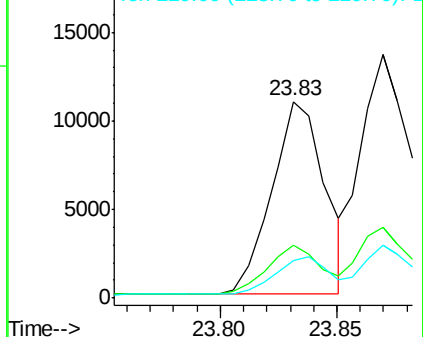
228 100

226 27.1 24.5 36.7

229 19.4 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

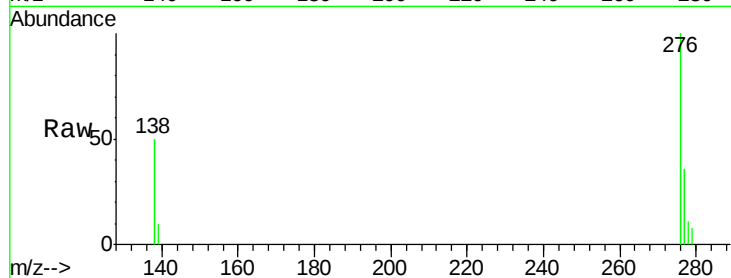
Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

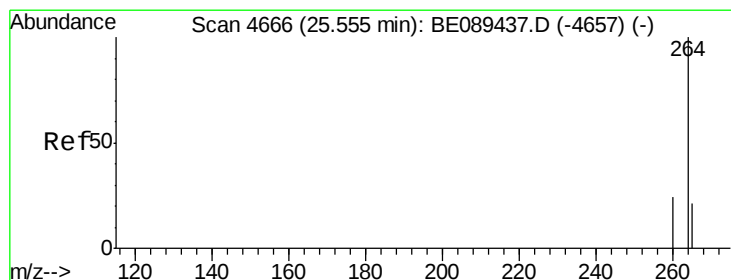
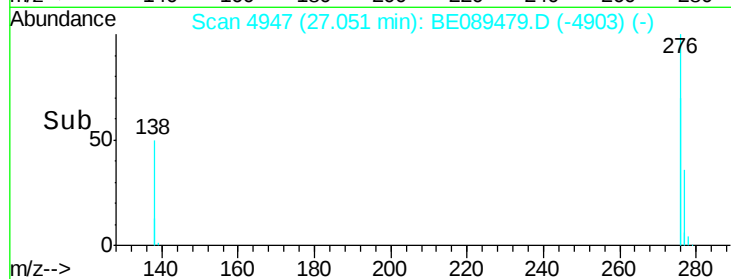
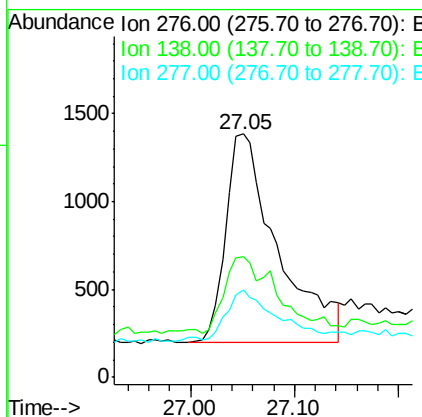
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	4115
Ion	Ratio	Lower	Upper
276	100		
138	39.2	25.4	38.0#
277	22.9	19.8	29.6



#22

Perylene-d12

Concen: 5.00 ng

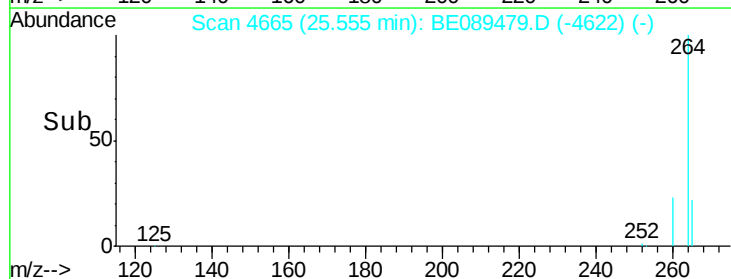
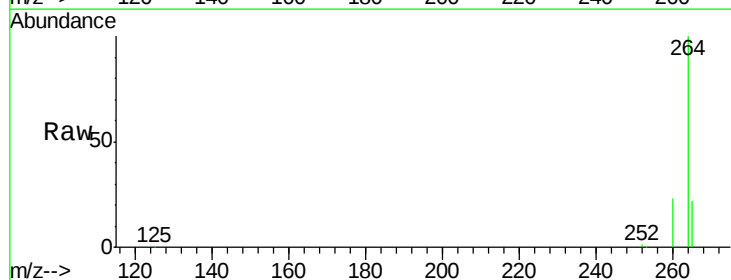
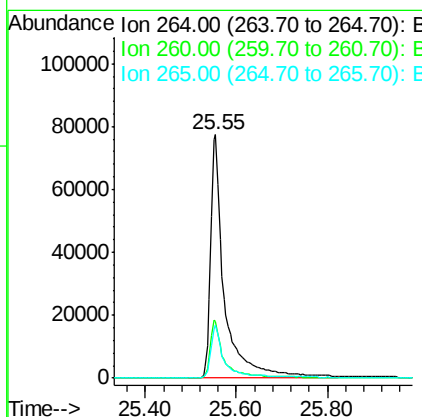
RT: 25.55 min Scan# 4665

Delta R.T. -0.00 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Tgt Ion:	264	Resp:	162859
Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.4	29.0
265	21.9	17.0	25.6





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 25.09 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089479.D

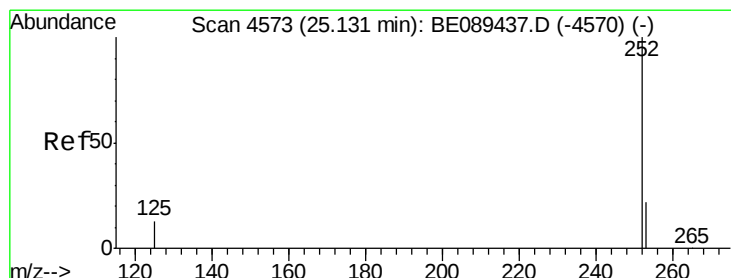
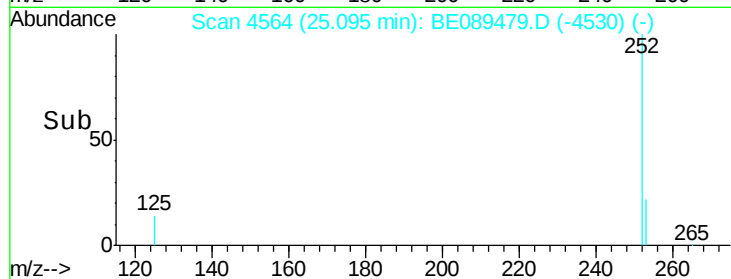
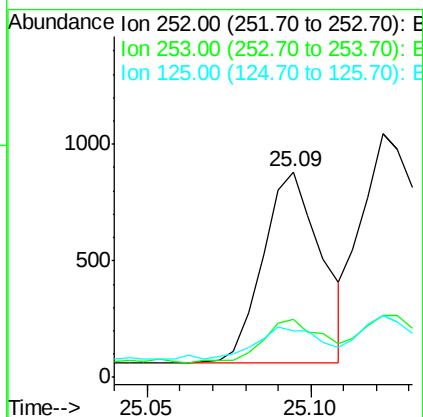
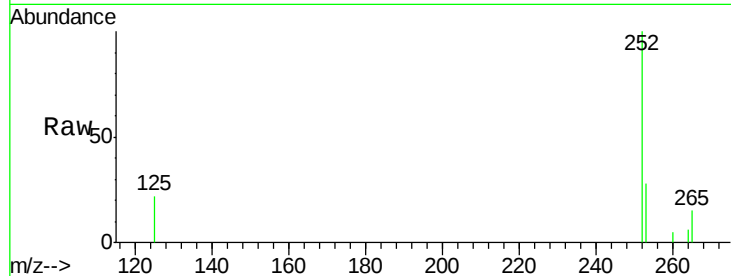
Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	1024
Ion	Ratio	Lower	Upper
252	100		
253	28.4	17.0	25.6#
125	22.3	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

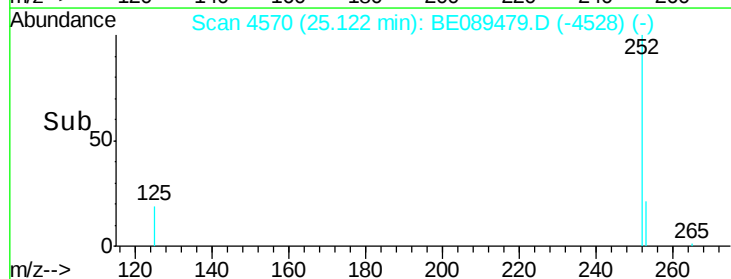
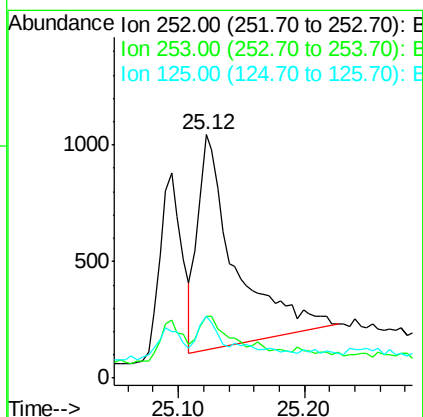
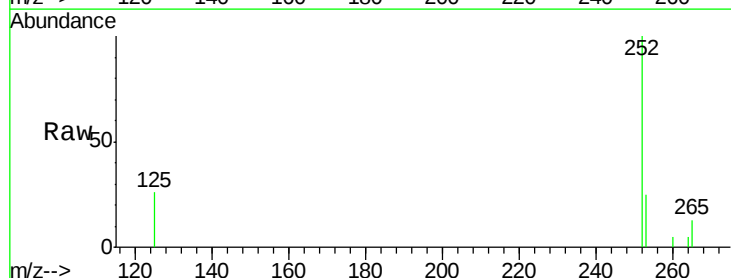
RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Tgt Ion:	252	Resp:	1910
Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.4	26.2
125	25.7	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampled :

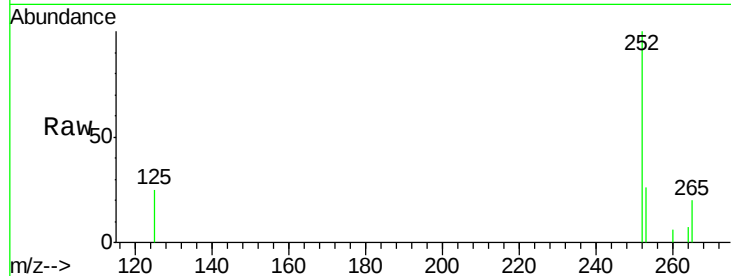
Tgt Ion: 252 Resp: 1346

Ion Ratio Lower Upper

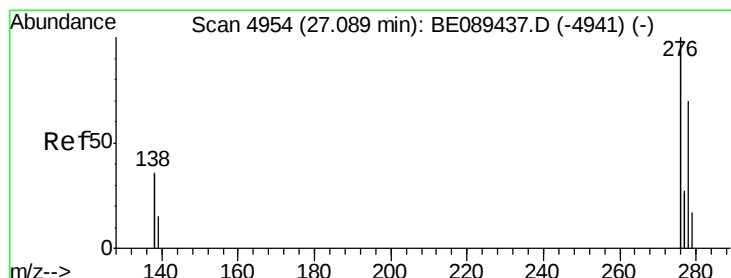
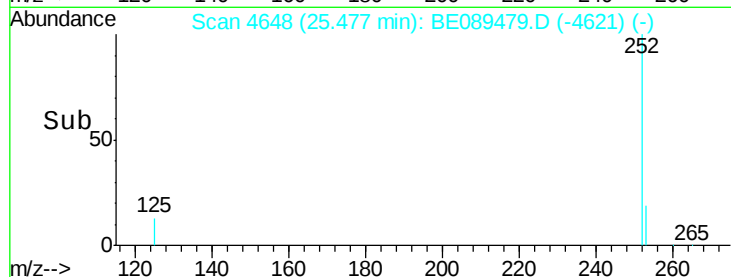
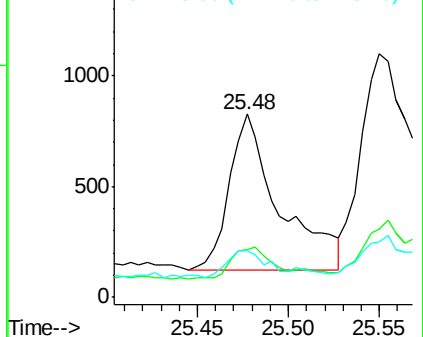
252 100

253 26.1 17.3 25.9#

125 25.4 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: 0.16 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

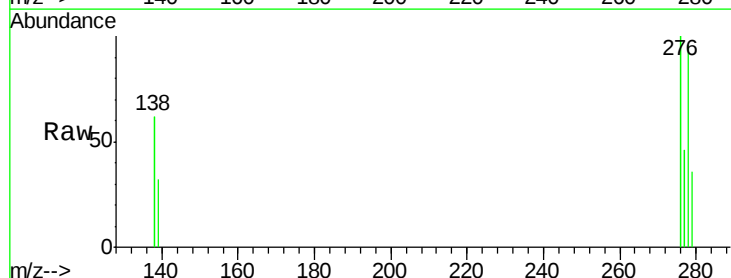
Tgt Ion: 278 Resp: 818

Ion Ratio Lower Upper

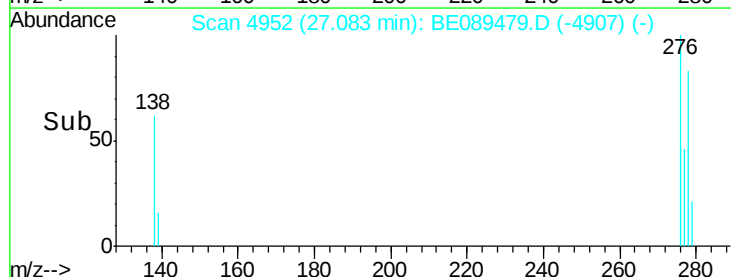
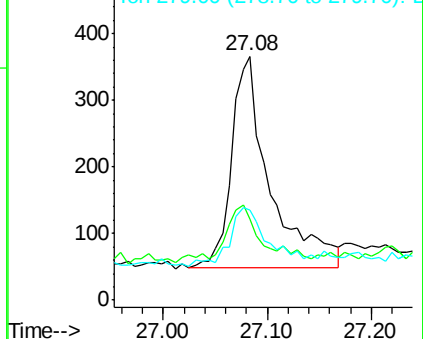
278 100

139 33.1 17.0 25.4#

279 36.9 19.1 28.7#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

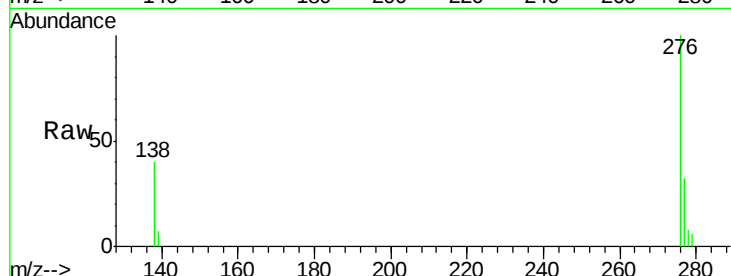
Lab File: BE089479.D

Acq: 31 Jan 2015 21:58

Instrument :

BNA_E

ClientSampleId :



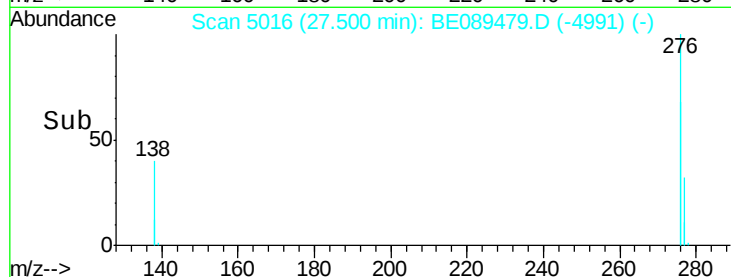
Tgt Ion: 276 Resp: 5468

Ion Ratio Lower Upper

276 100

277 32.4 18.4 27.6#

138 40.1 23.7 35.5#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

