

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089570.D
 Acq On : 7 Feb 2015 23:02
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:23:21 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	50903	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	216236	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	113003	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	191317	5.00	ng	0.00
16) Chrysene-d12	23.72	240	174910	5.00	ng	0.00
22) Perylene-d12	25.41	264	152525	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	135186	9.41	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	237251	7.87	ng	0.00
18) Terphenyl-d14	22.36	244	250536	10.86	ng	0.00

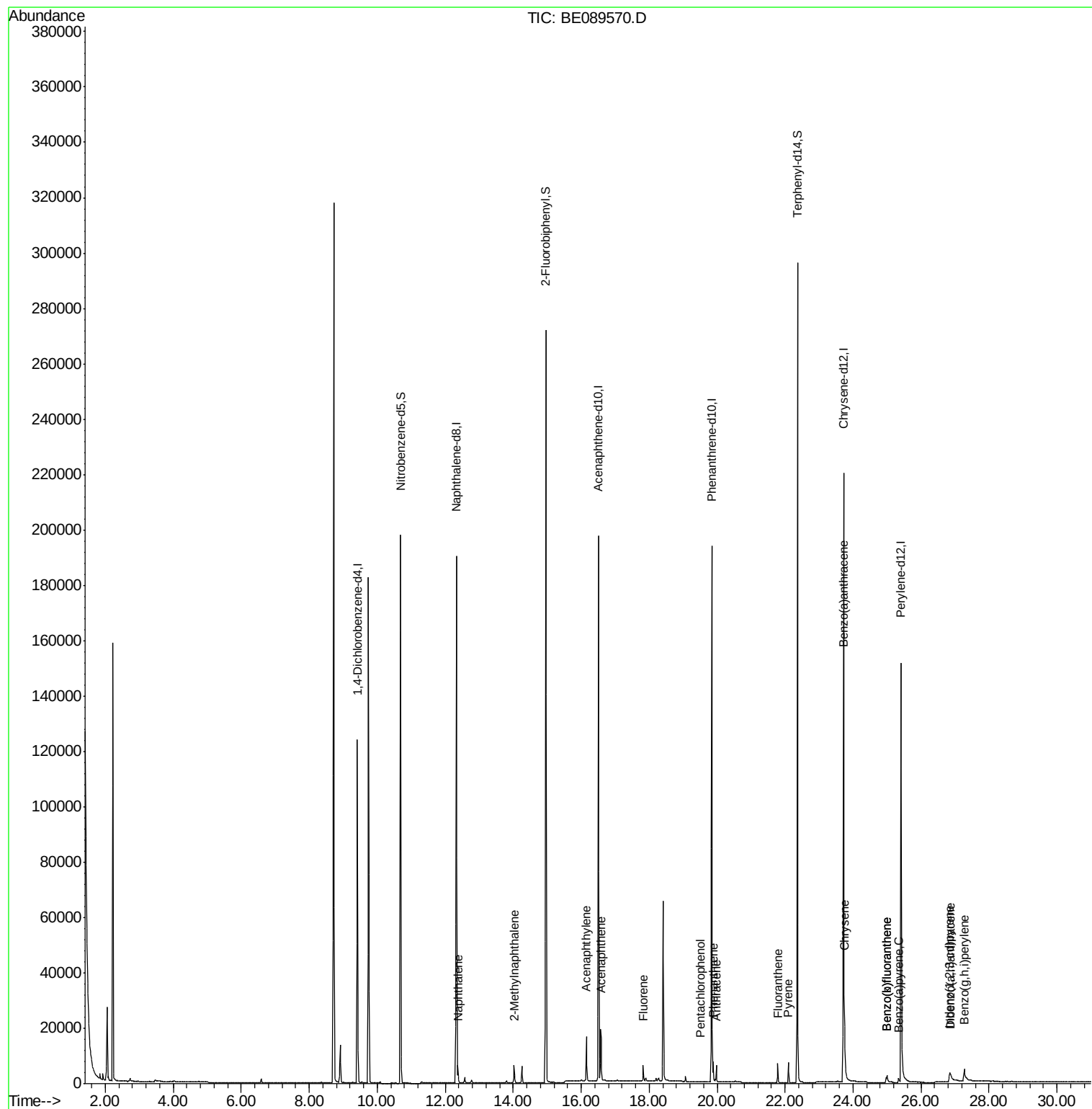
Target Compounds						Qvalue
4) Naphthalene	12.37	128	7062	0.14	ng	98
5) 2-Methylnaphthalene	14.03	142	3999	0.14	ng	# 93
8) Acenaphthylene	16.16	152	20840	0.11	ng	100
9) Acenaphthene	16.59	154	3832	0.13	ng	98
10) Fluorene	17.83	166	3955	0.12	ng	98
12) Pentachlorophenol	19.52	266	82	0.59	ng	94
13) Phenanthrene	19.89	178	6727	0.14	ng	99
14) Anthracene	19.98	178	5329	0.13	ng	99
15) Fluoranthene	21.78	202	5212	0.12	ng	97
17) Pyrene	22.10	202	5606	0.15	ng	99
19) Benzo(a)anthracene	23.70	228	19200	0.12	ng	94
20) Chrysene	23.75	228	24773	0.16	ng	98
21) Indeno(1,2,3-cd)pyrene	26.84	276	8995	0.04	ng	# 82
23) Benzo(b)fluoranthene	25.00	252	3993	0.13	ng	93
24) Benzo(k)fluoranthene	25.00	252	3993	0.11	ng	93
25) Benzo(a)pyrene	25.34	252	2194	0.07	ng	# 95
26) Dibenzo(a,h)anthracene	26.87	278	1921	0.05	ng	# 89
27) Benzo(g,h,i)perylene	27.27	276	11943	0.08	ng	# 90

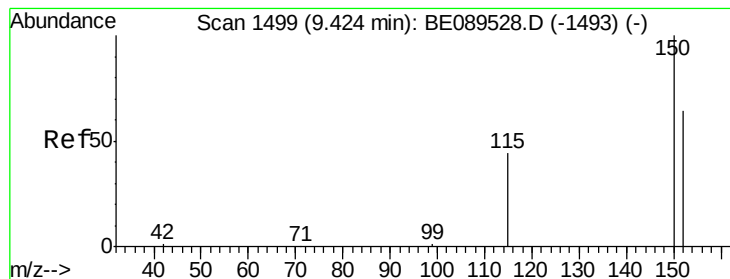
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

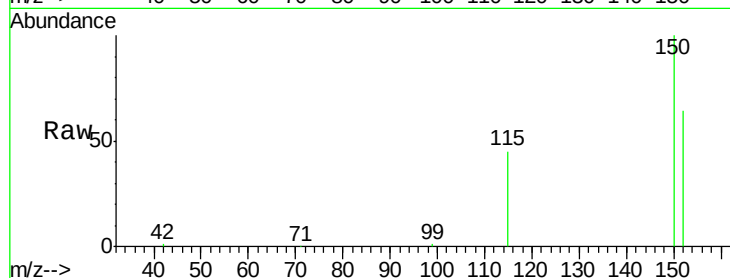
Lab File: BE089570.D

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Instrument :

BNA_E

ClientSampleId :



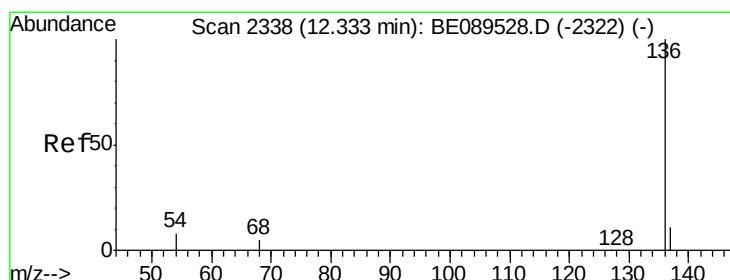
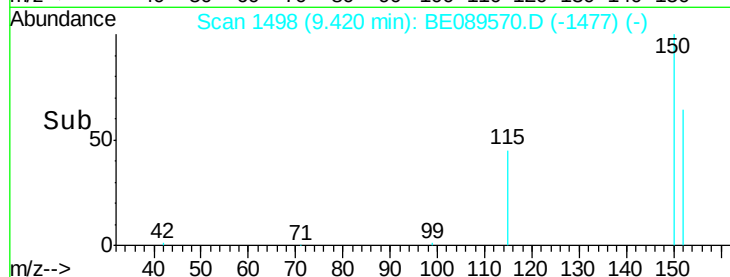
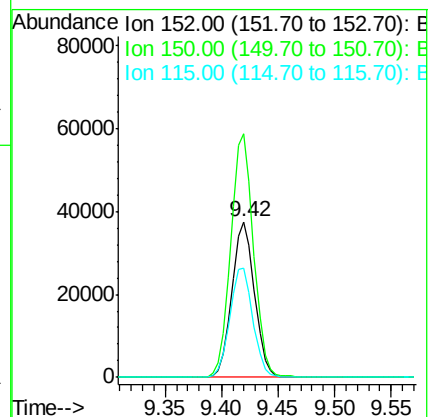
Tgt Ion:152 Resp: 50903

Ion Ratio Lower Upper

152 100

150 156.4 125.7 188.5

115 70.5 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

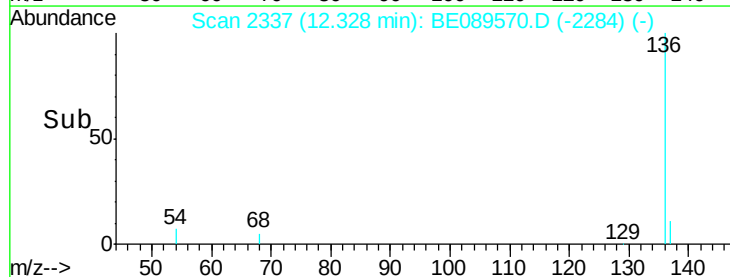
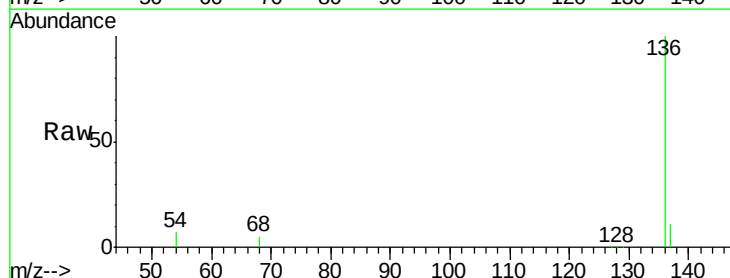
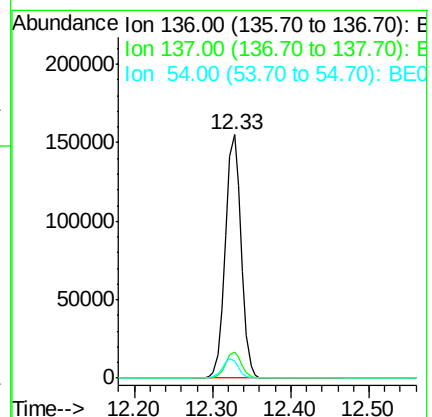
Tgt Ion:136 Resp: 216236

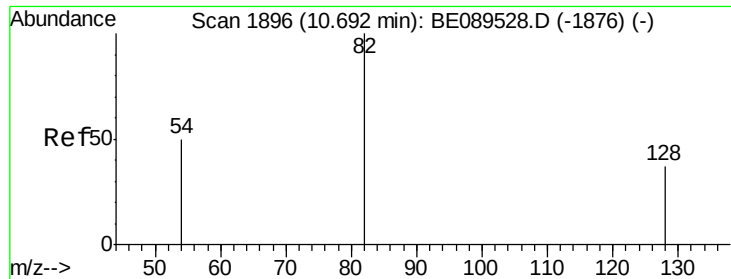
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 7.1 6.1 9.1





#3

Nitrobenzene-d5

Concen: 9.41 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.01 min

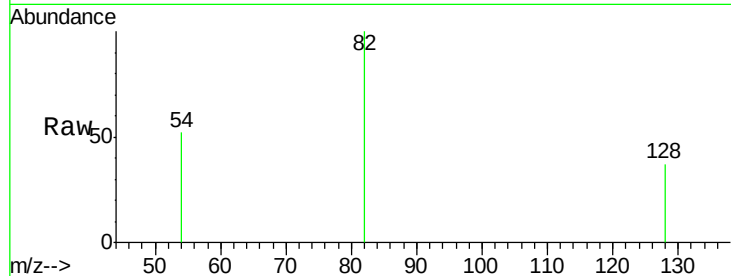
Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

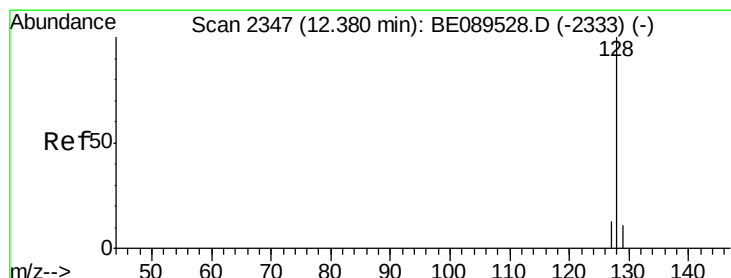
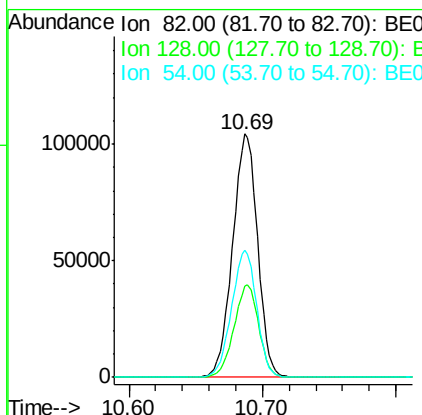
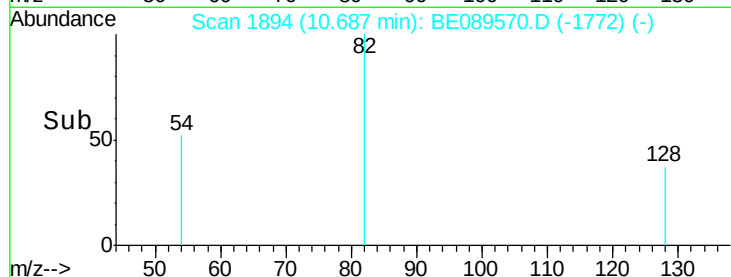
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	135186
Ion	Ratio	Lower	Upper
82	100		
128	37.4	30.2	45.4
54	52.4	40.6	60.8



#4

Naphthalene

Concen: 0.14 ng

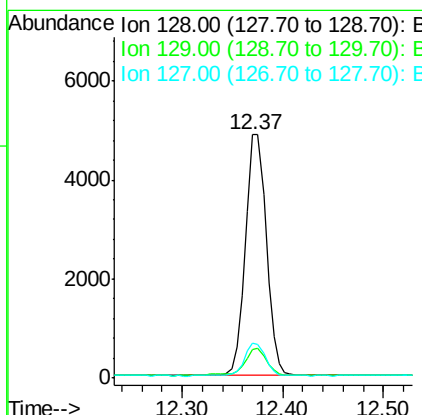
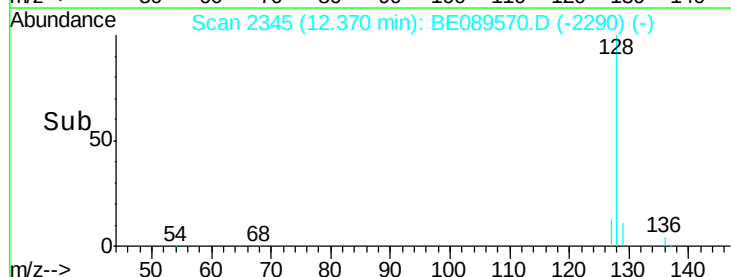
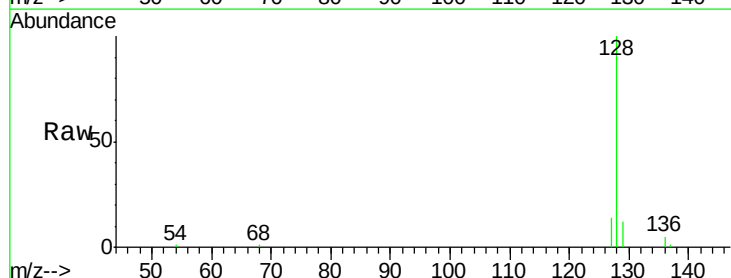
RT: 12.37 min Scan# 2345

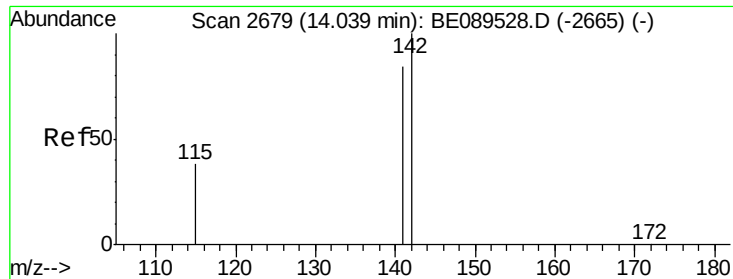
Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Tgt Ion:	128	Resp:	7062
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.1	13.7
127	14.3	10.5	15.7





#5

2-Methylnaphthalene

Concen: 0.14 ng

RT: 14.03 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BE089570.D

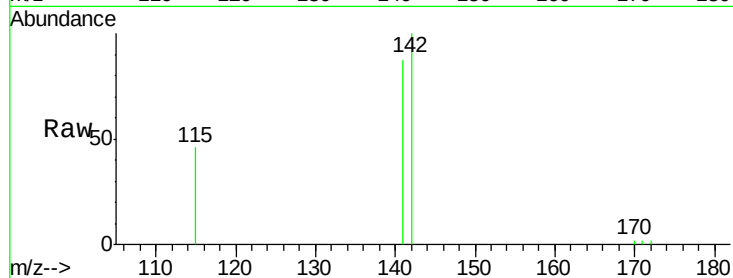
Acq: 7 Feb 2015 23:02

Instrument :

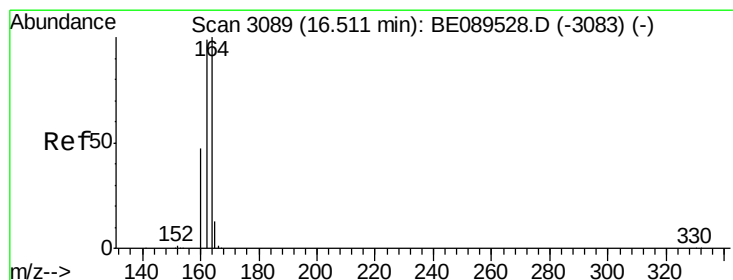
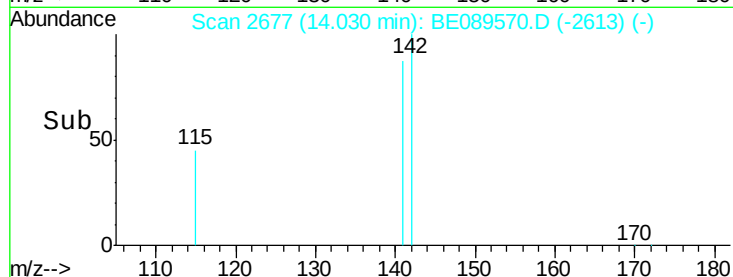
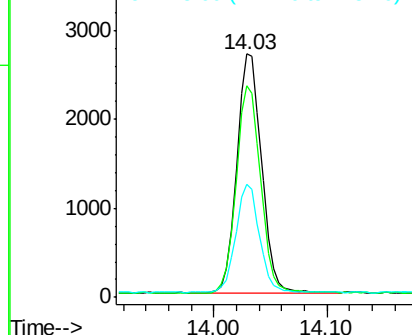
BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	3999
Ion	Ratio	Lower	Upper
142	100		
141	86.9	67.0	100.6
115	46.5	30.6	45.8#



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

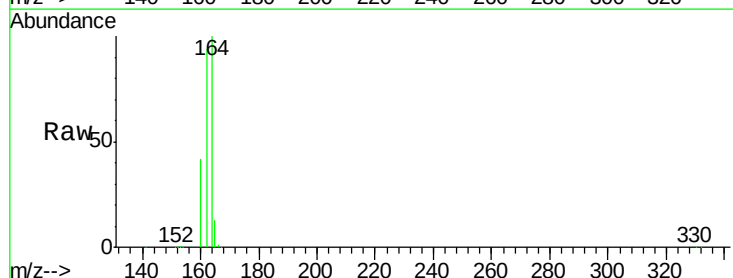
RT: 16.51 min Scan# 3089

Delta R.T. 0.00 min

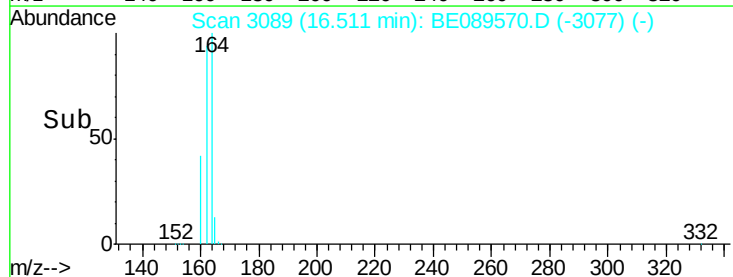
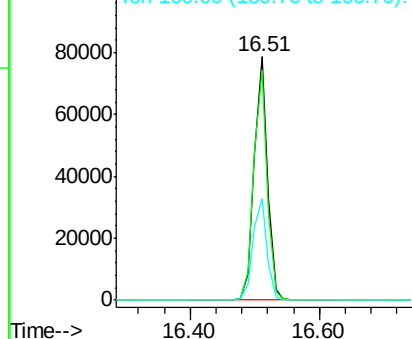
Lab File: BE089570.D

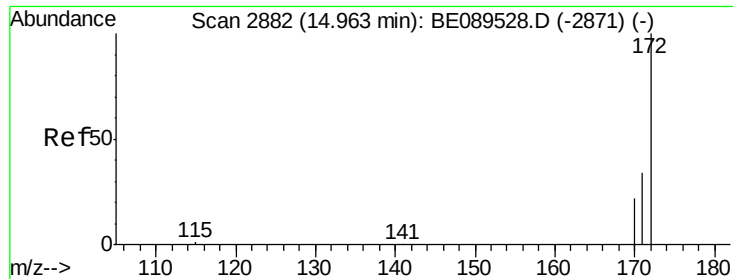
Acq: 7 Feb 2015 23:02

Tgt Ion:	164	Resp:	113003
Ion	Ratio	Lower	Upper
164	100		
162	94.4	79.5	119.3
160	41.8	37.6	56.4



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.87 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Instrument :

BNA_E

ClientSampleId :

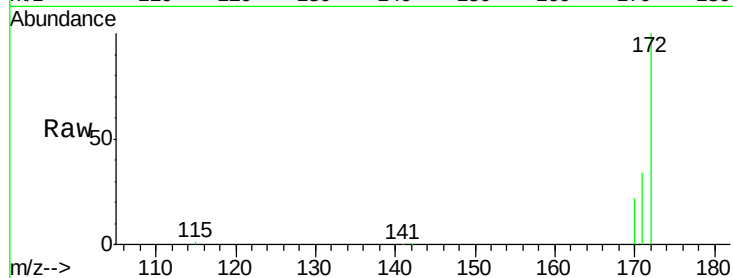
Tgt Ion:172 Resp: 237251

Ion Ratio Lower Upper

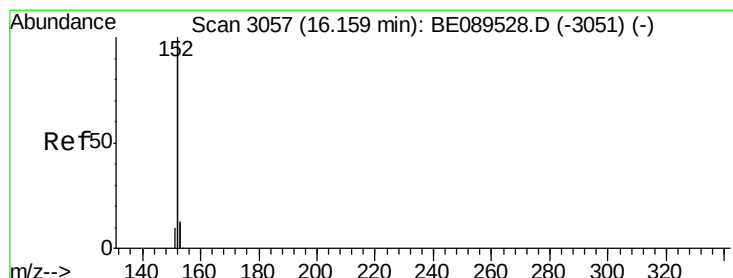
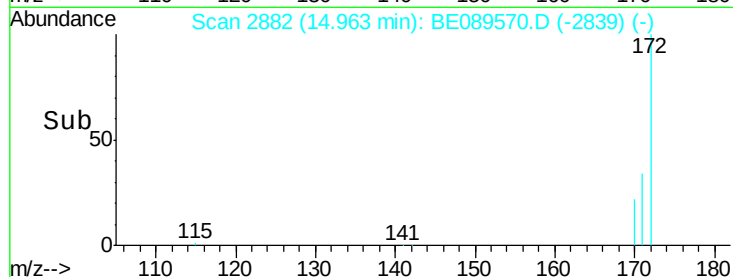
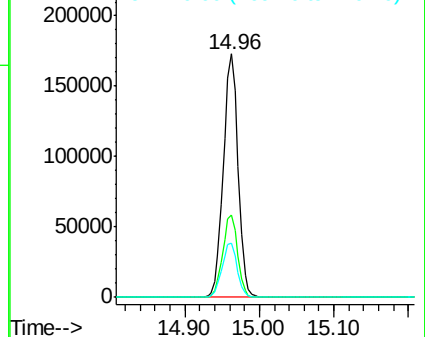
172 100

171 34.0 27.7 41.5

170 22.4 18.3 27.5



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: 16.16 min Scan# 3057

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

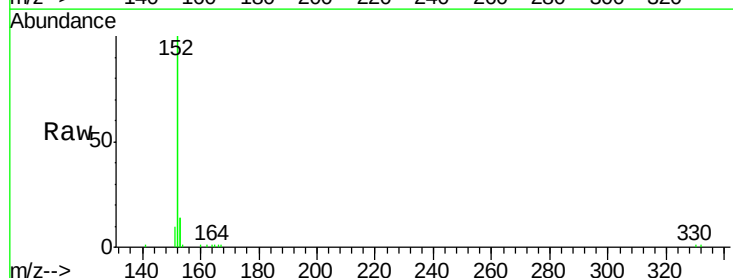
Tgt Ion:152 Resp: 20840

Ion Ratio Lower Upper

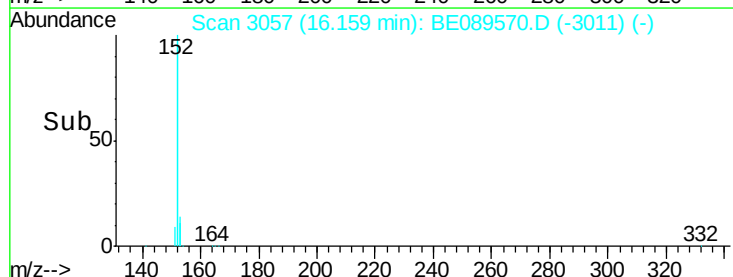
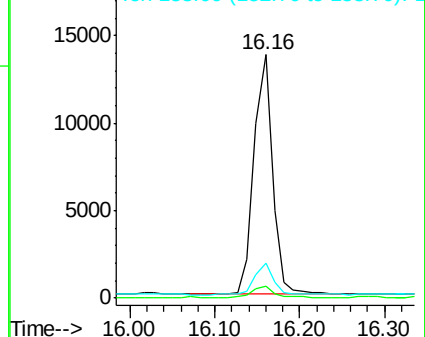
152 100

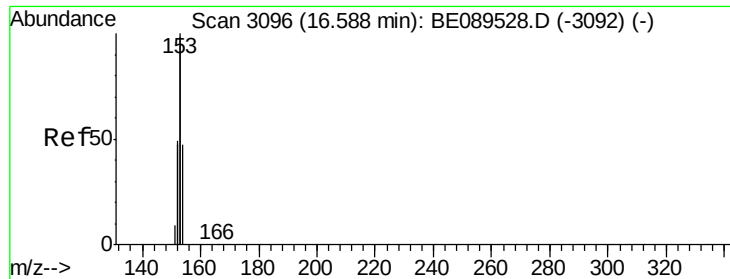
151 5.0 4.0 6.0

153 13.3 10.6 15.8



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.13 ng

RT: 16.59 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Instrument :

BNA_E

ClientSampleId :

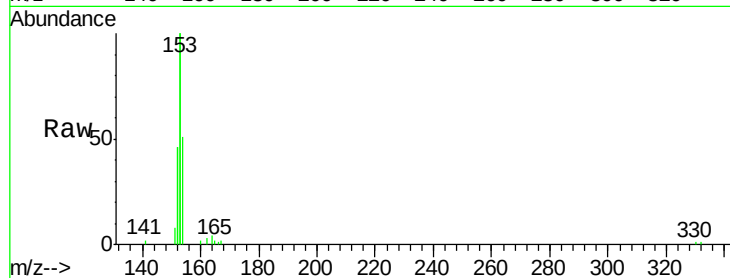
Tgt Ion:154 Resp: 3832

Ion Ratio Lower Upper

154 100

153 423.2 340.8 511.2

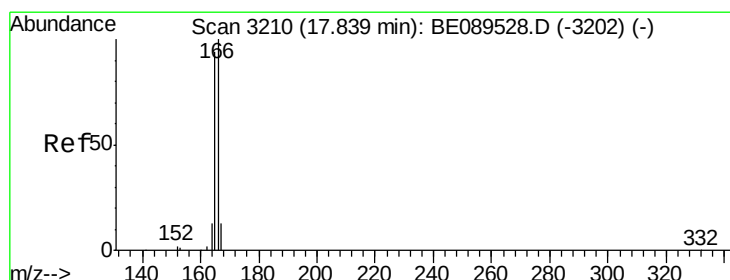
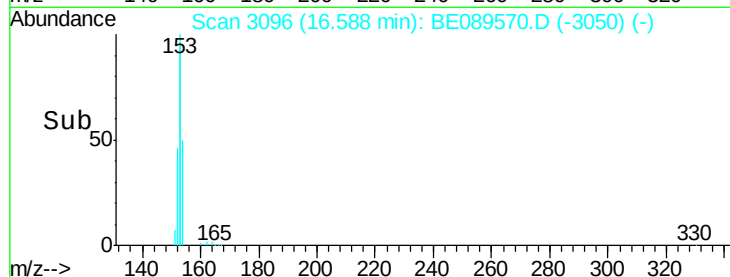
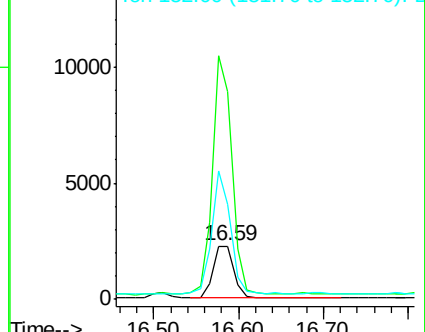
152 213.4 165.5 248.3



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: 0.12 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

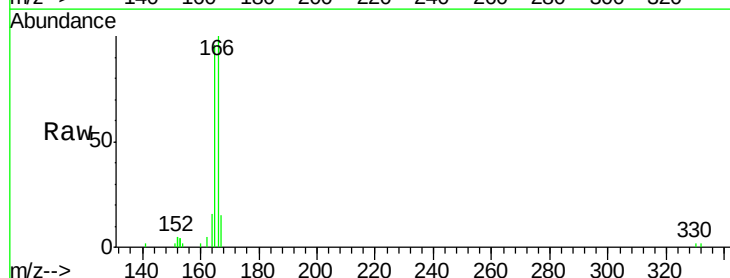
Tgt Ion:166 Resp: 3955

Ion Ratio Lower Upper

166 100

165 92.1 75.5 113.3

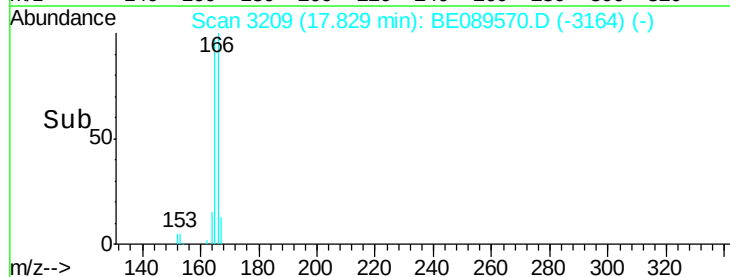
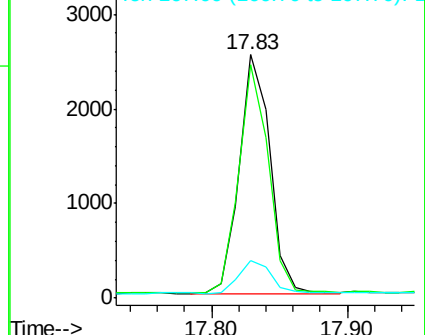
167 14.2 10.9 16.3

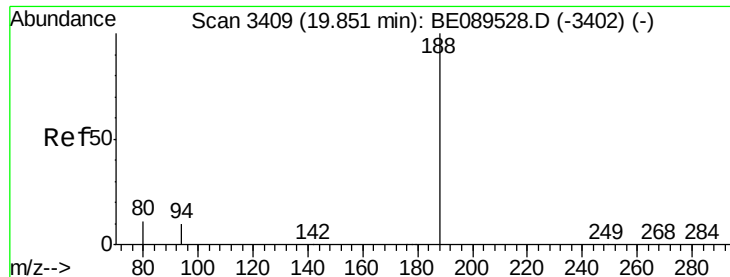


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

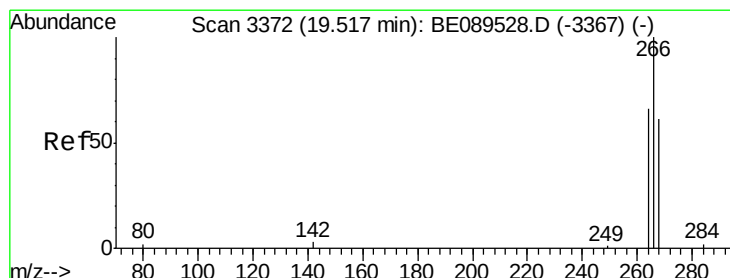
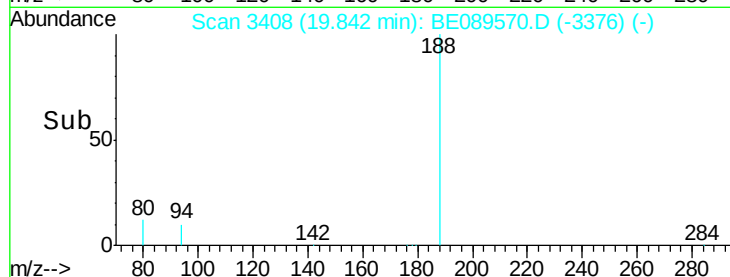
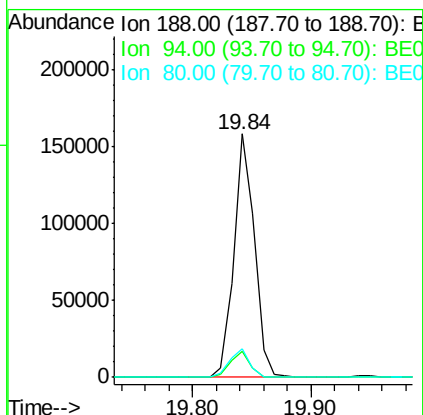
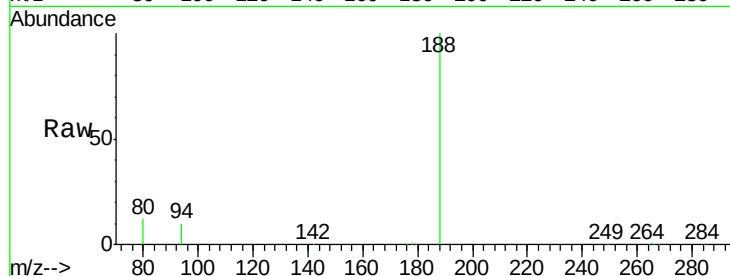




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089570.D
Acq: 7 Feb 2015 23:02

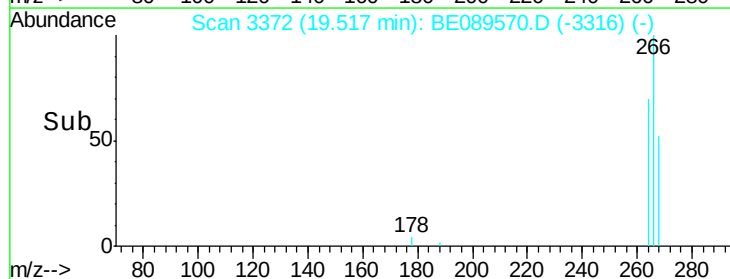
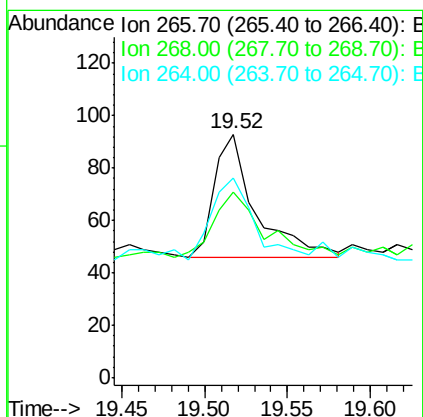
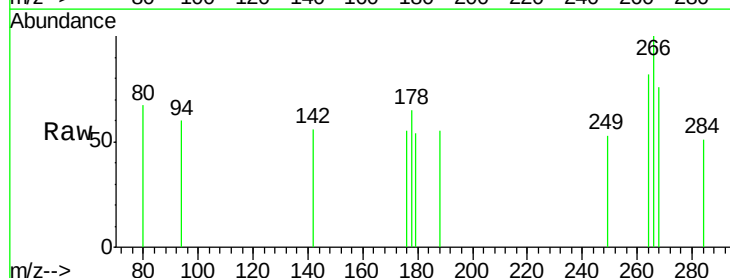
Instrument :
BNA_E
ClientSampleId :

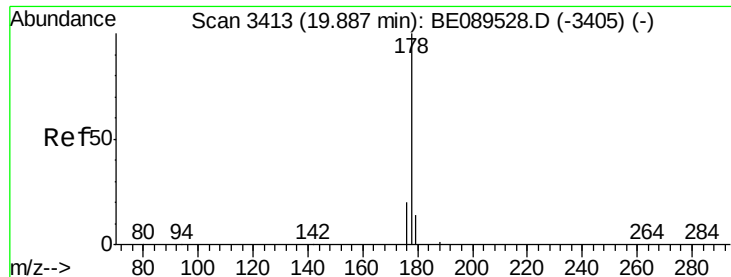
Tgt Ion:188 Resp: 191317
Ion Ratio Lower Upper
188 100
94 10.5 8.4 12.6
80 11.5 8.6 12.8



#12
Pentachlorophenol
Concen: 0.59 ng
RT: 19.52 min Scan# 3372
Delta R.T. 0.00 min
Lab File: BE089570.D
Acq: 7 Feb 2015 23:02

Tgt Ion:266 Resp: 82
Ion Ratio Lower Upper
266 100
268 76.3 57.9 86.9
264 81.7 60.2 90.4

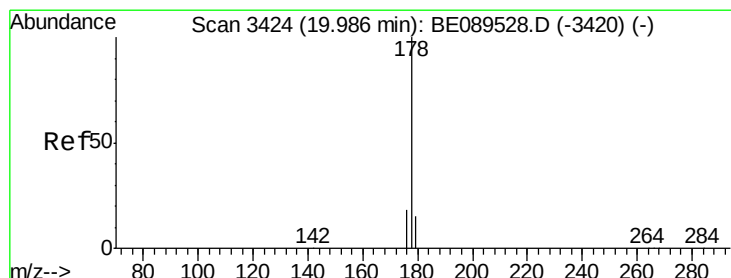
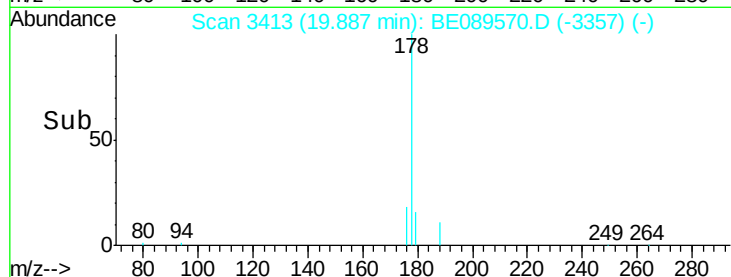
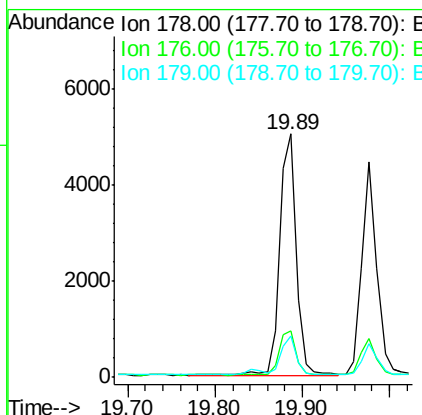
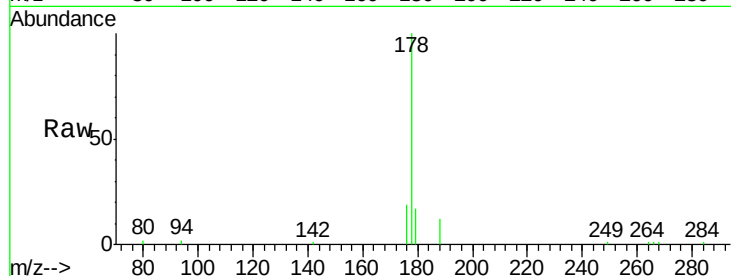




#13
 Phenanthrene
 Concen: 0.14 ng
 RT: 19.89 min Scan# 3413
 Delta R.T. 0.00 min
 Lab File: BE089570.D
 Acq: 7 Feb 2015 23:02

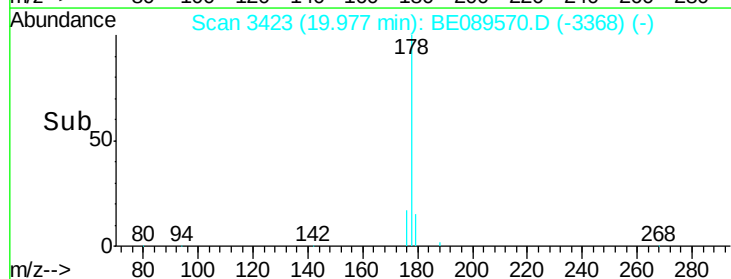
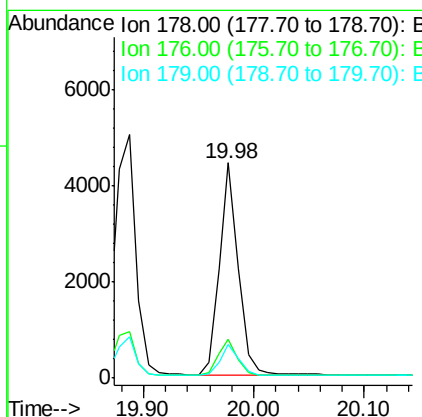
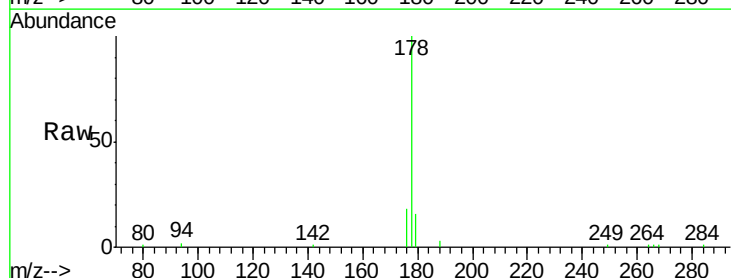
Instrument :
 BNA_E
 ClientSampleId :

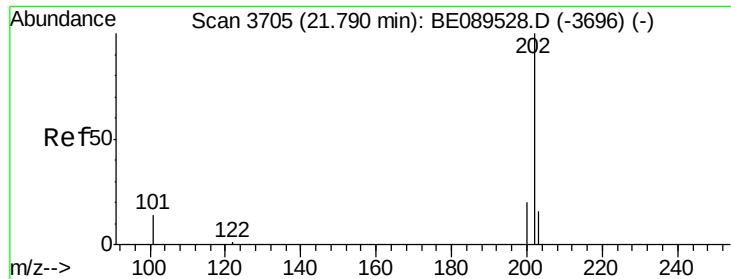
Tgt Ion:178 Resp: 6727
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.0
 179 15.1 12.2 18.2



#14
 Anthracene
 Concen: 0.13 ng
 RT: 19.98 min Scan# 3423
 Delta R.T. -0.01 min
 Lab File: BE089570.D
 Acq: 7 Feb 2015 23:02

Tgt Ion:178 Resp: 5329
 Ion Ratio Lower Upper
 178 100
 176 17.3 14.5 21.7
 179 15.2 12.2 18.2

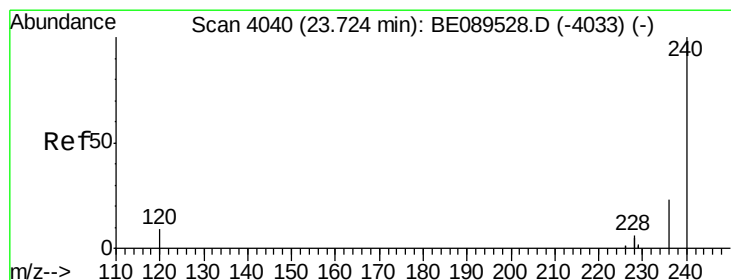
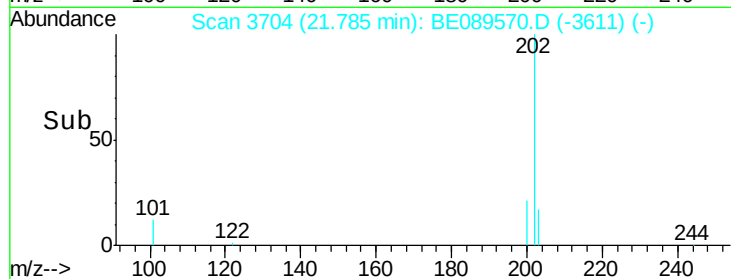
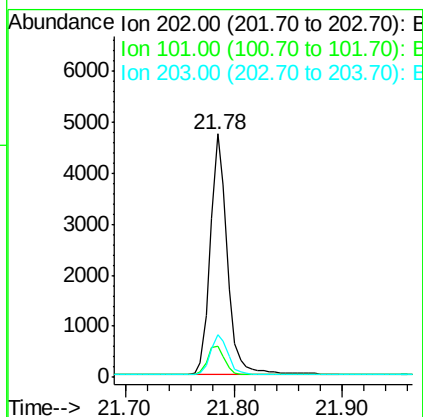
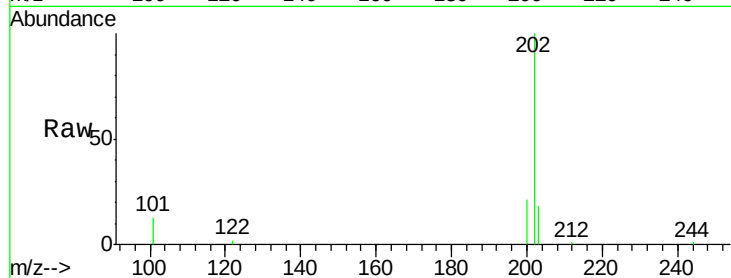




#15
 Fluoranthene
 Concen: 0.12 ng
 RT: 21.78 min Scan# 3704
 Delta R.T. -0.01 min
 Lab File: BE089570.D
 Acq: 7 Feb 2015 23:02

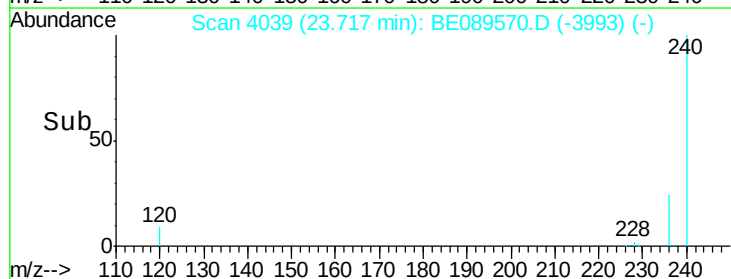
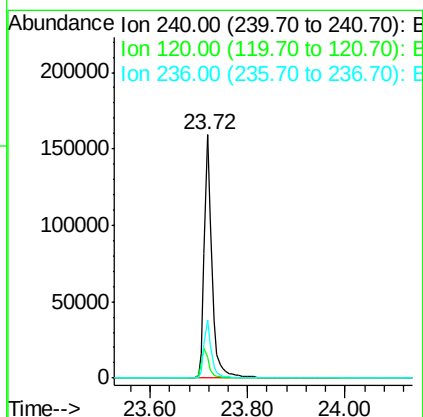
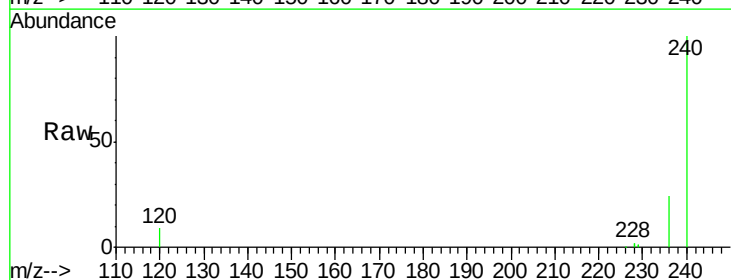
Instrument :
 BNA_E
 ClientSampleId :

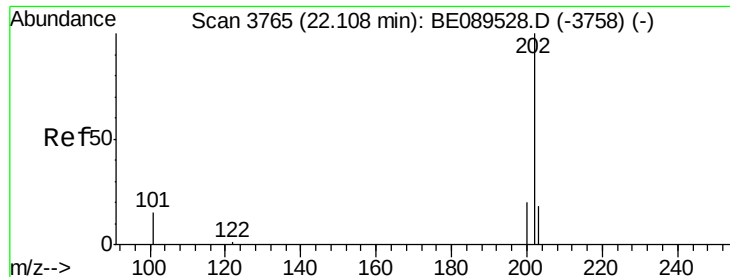
Tgt Ion:202 Resp: 5212
 Ion Ratio Lower Upper
 202 100
 101 12.4 11.6 17.4
 203 17.3 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. -0.01 min
 Lab File: BE089570.D
 Acq: 7 Feb 2015 23:02

Tgt Ion:240 Resp: 174910
 Ion Ratio Lower Upper
 240 100
 120 8.7 7.2 10.8
 236 23.6 18.5 27.7

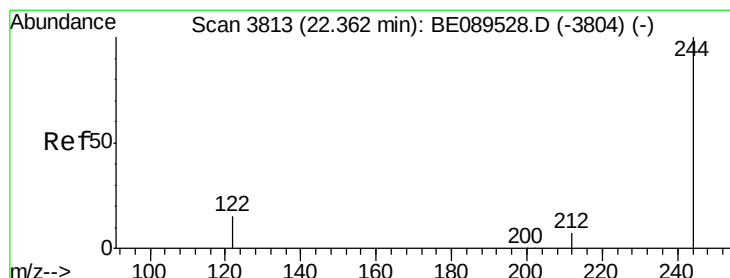
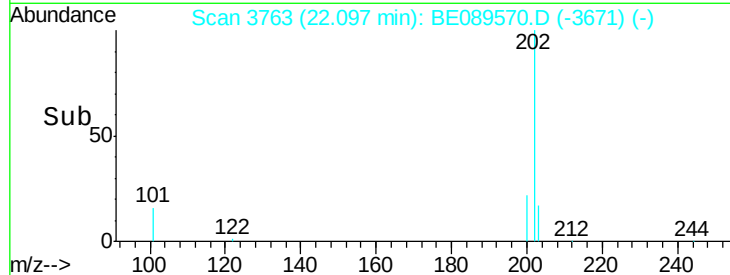
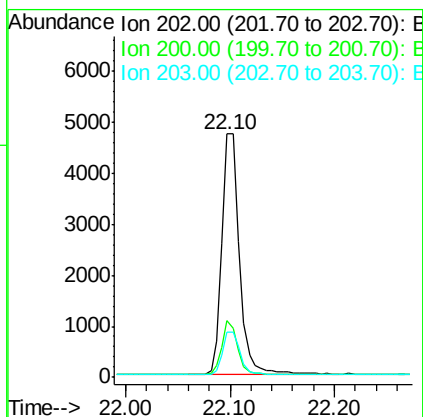
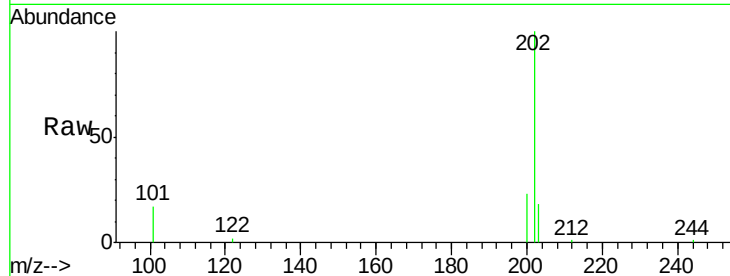




#17
 Pyrene
 Concen: 0.15 ng
 RT: 22.10 min Scan# 3763
 Delta R.T. -0.01 min
 Lab File: BE089570.D
 Acq: 7 Feb 2015 23:02

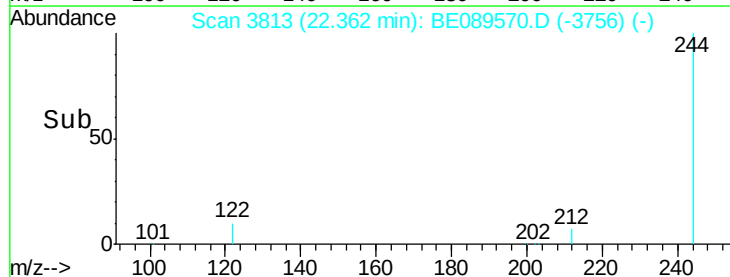
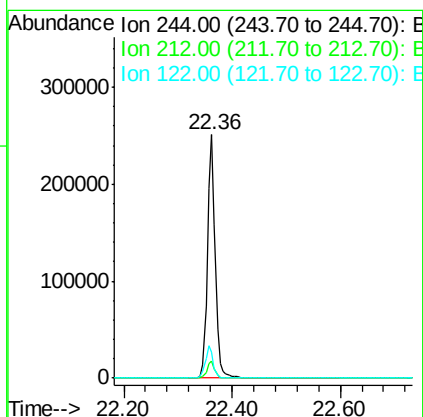
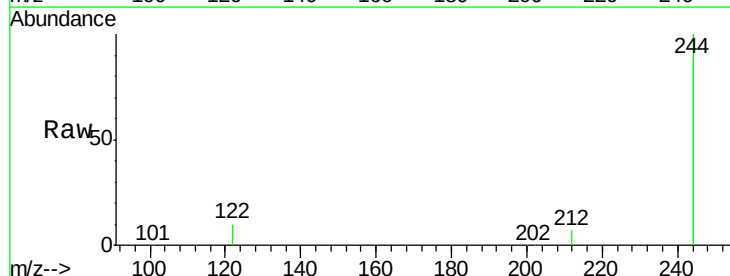
Instrument :
 BNA_E
 ClientSampleId :

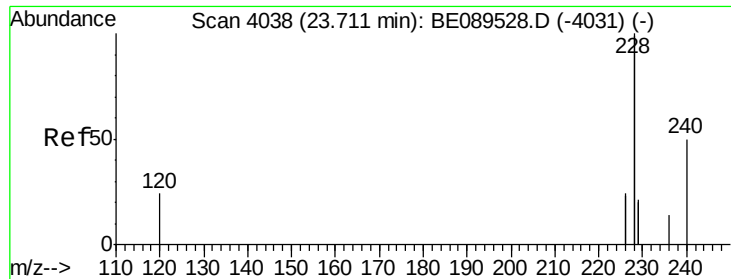
Tgt Ion:202 Resp: 5606
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.3 24.5
 203 18.0 13.5 20.3



#18
 Terphenyl-d14
 Concen: 10.86 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. 0.00 min
 Lab File: BE089570.D
 Acq: 7 Feb 2015 23:02

Tgt Ion:244 Resp: 250536
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.8 8.8
 122 10.4 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 0.12 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Instrument :

BNA_E

ClientSampleId :

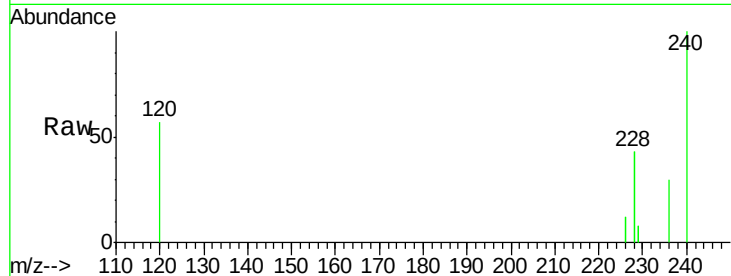
Tgt Ion:228 Resp: 19200

Ion Ratio Lower Upper

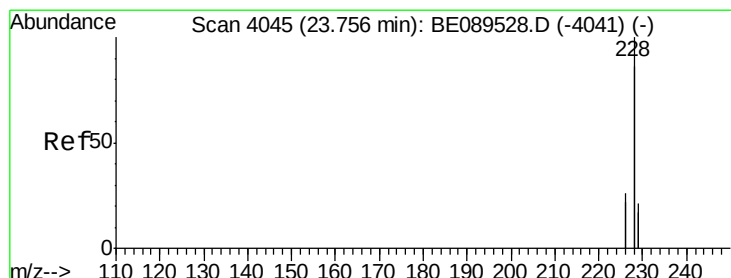
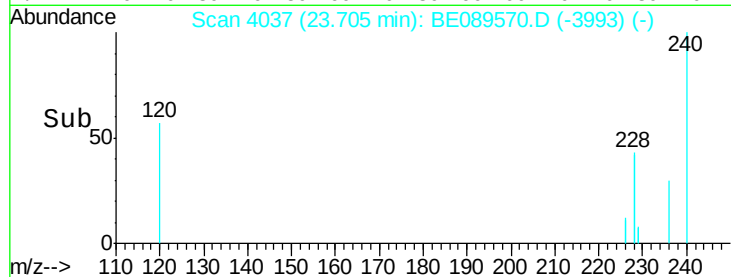
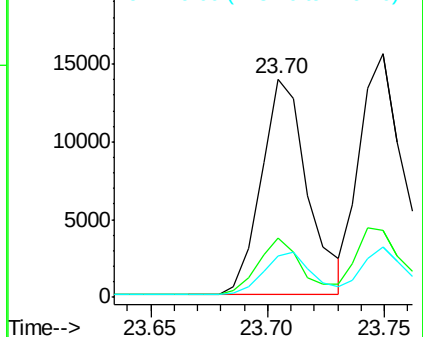
228 100

226 27.3 19.0 28.4

229 19.1 16.8 25.2



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: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

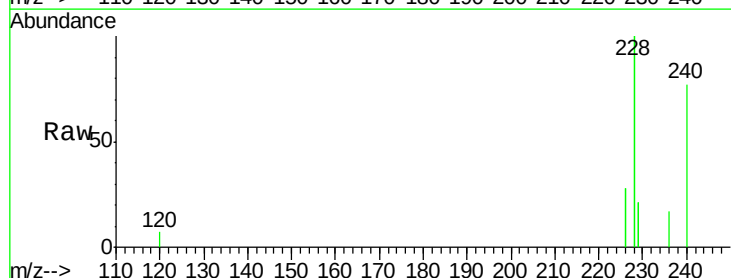
Tgt Ion:228 Resp: 24773

Ion Ratio Lower Upper

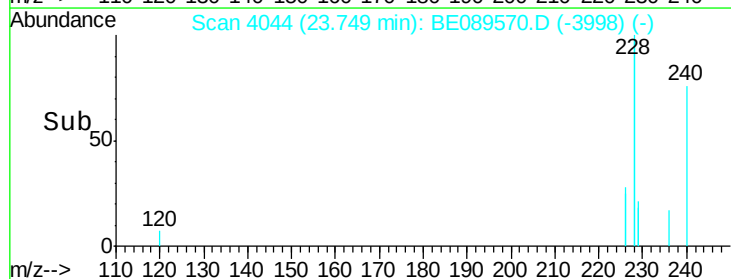
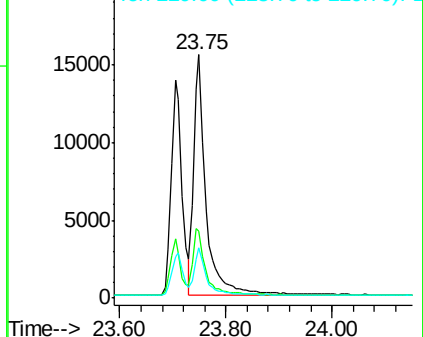
228 100

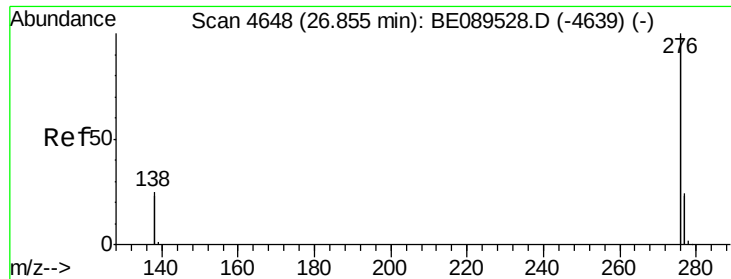
226 27.7 21.0 31.4

229 20.7 16.7 25.1



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: 0.04 ng

RT: 26.84 min Scan# 4646

Delta R.T. -0.01 min

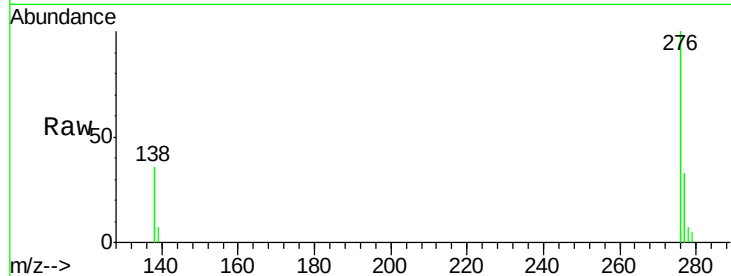
Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

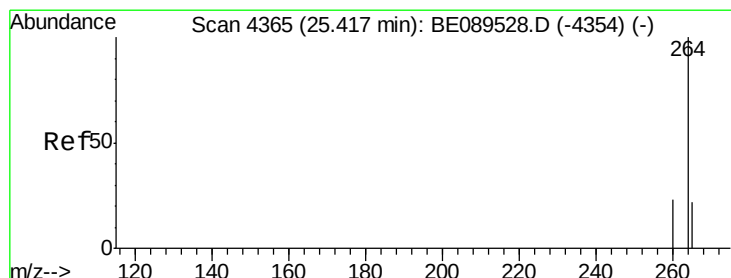
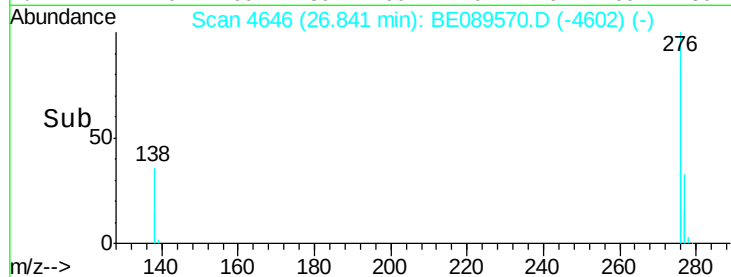
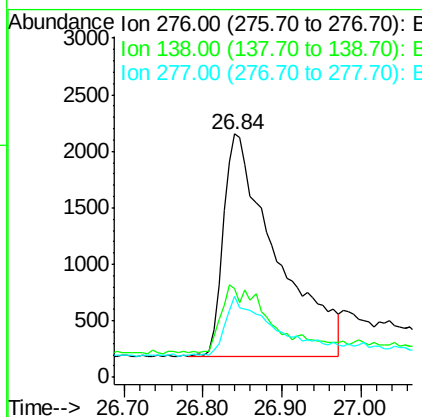
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	8995
Ion	Ratio	Lower	Upper
276	100		
138	10.8	23.0	34.4#
277	25.3	19.9	29.9



#22

Perylene-d12

Concen: 5.00 ng

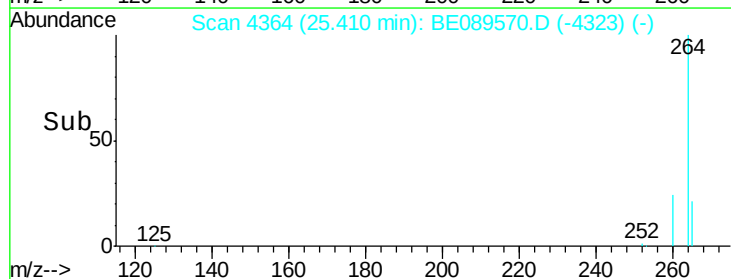
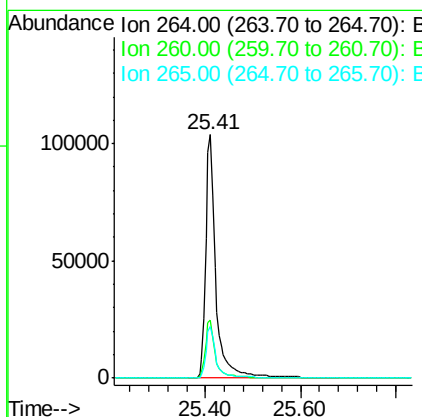
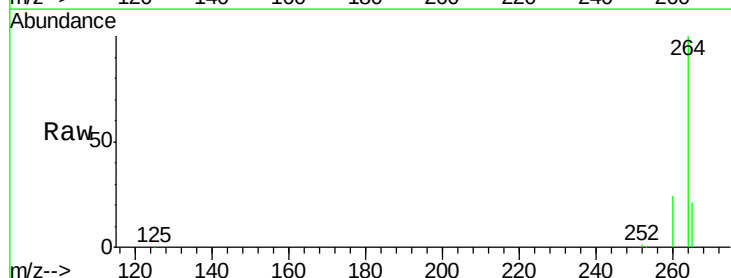
RT: 25.41 min Scan# 4364

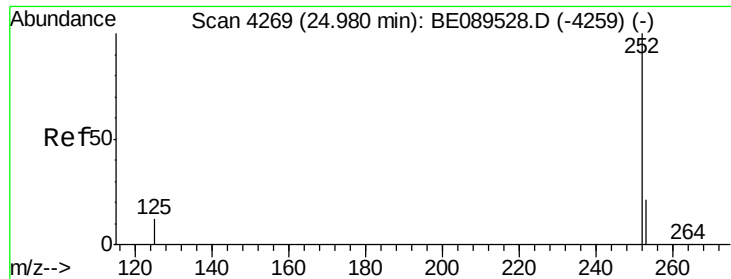
Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Tgt Ion:	264	Resp:	152525
Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	21.4	17.5	26.3





#23

Benzo(b)fluoranthene

Concen: 0.13 ng

RT: 25.00 min Scan# 4274

Delta R.T. 0.02 min

Lab File: BE089570.D

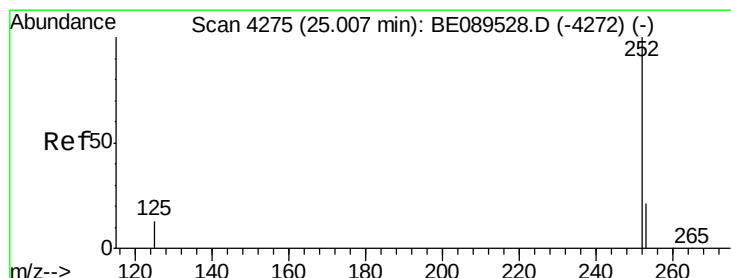
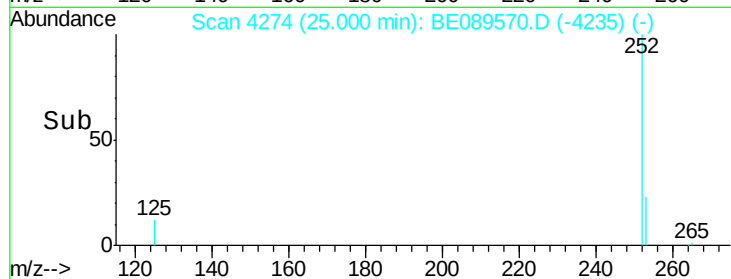
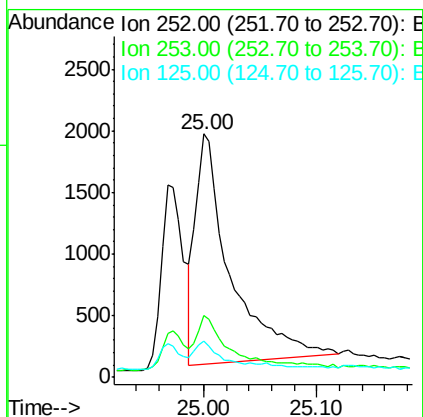
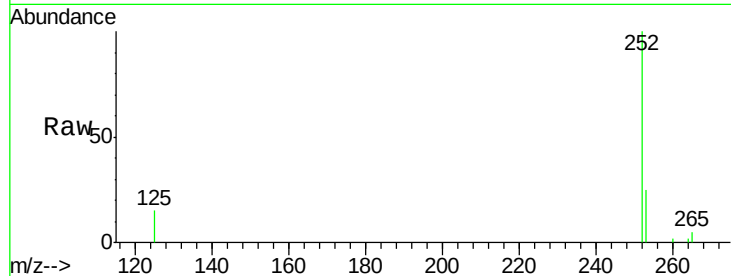
Acq: 7 Feb 2015 23:02

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	3993
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.4	26.0
125	15.0	10.4	15.6



#24

Benzo(k)fluoranthene

Concen: 0.11 ng

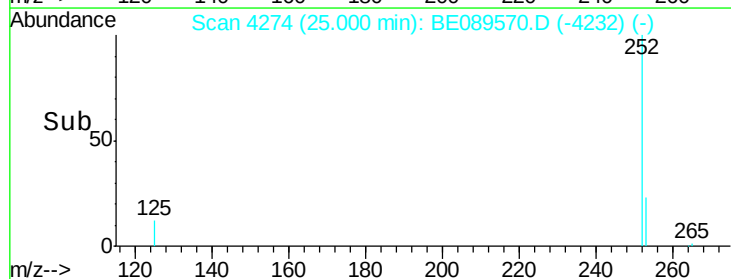
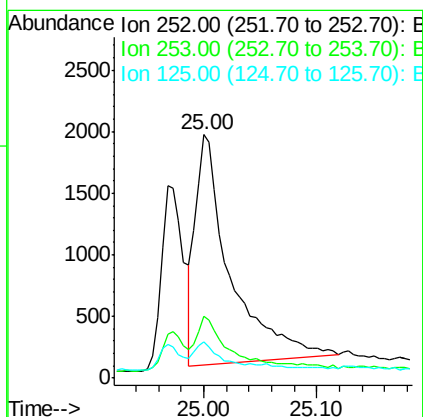
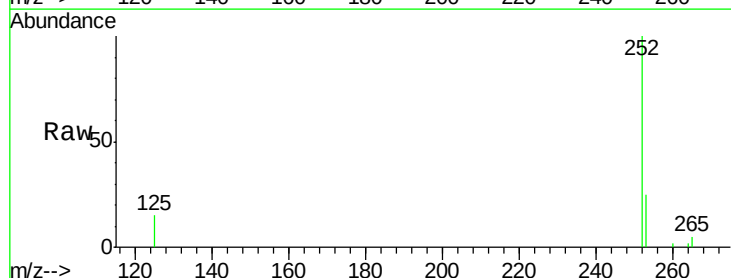
RT: 25.00 min Scan# 4274

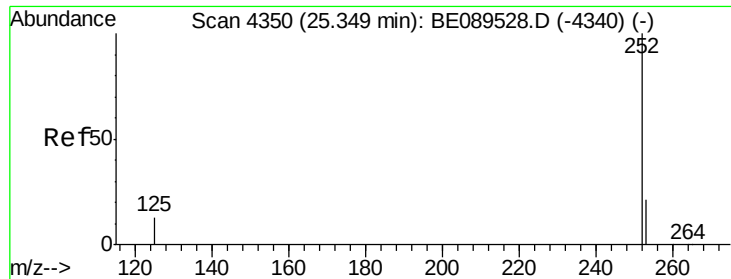
Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Tgt Ion:	252	Resp:	3993
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.2	25.8
125	15.0	10.6	15.8





#25

Benzo(a)pyrene

Concen: 0.07 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Instrument :

BNA_E

ClientSampleId :

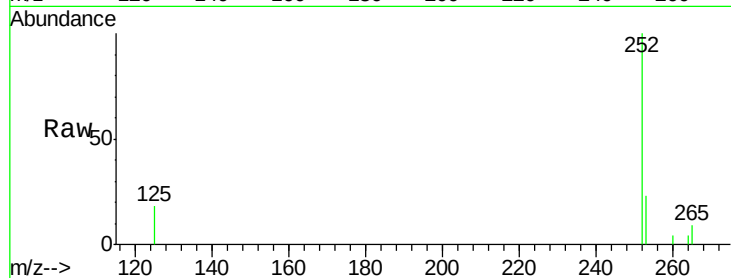
Tgt Ion:252 Resp: 2194

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.6

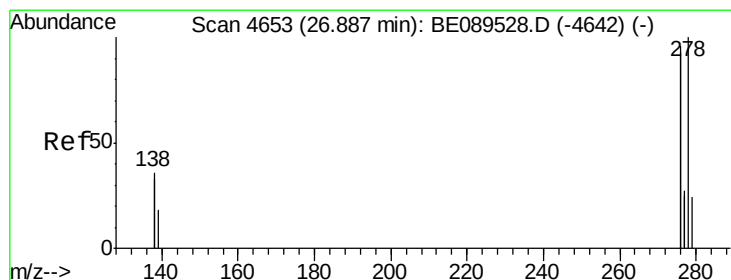
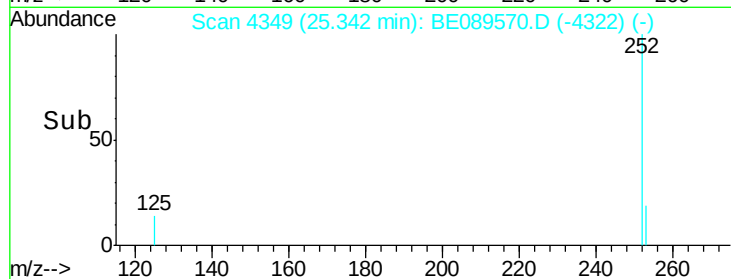
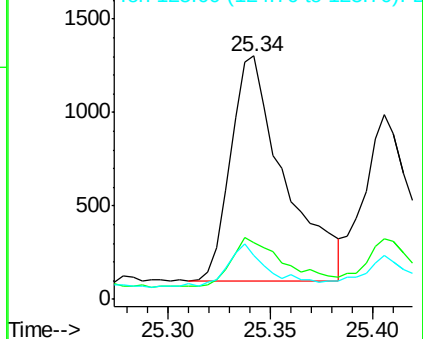
125 17.9 11.4 17.2#



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: 0.05 ng

RT: 26.87 min Scan# 4651

Delta R.T. -0.01 min

Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

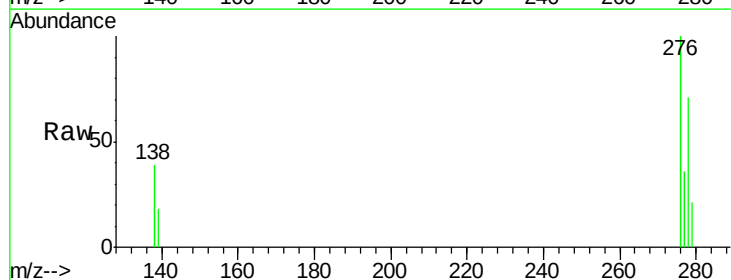
Tgt Ion:278 Resp: 1921

Ion Ratio Lower Upper

278 100

139 25.6 15.7 23.5#

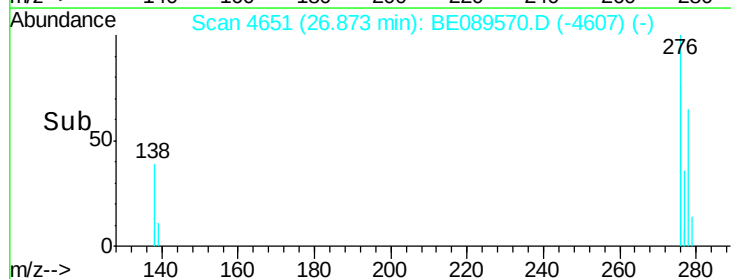
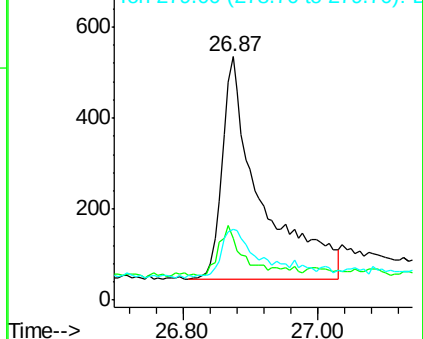
279 29.3 19.5 29.3#

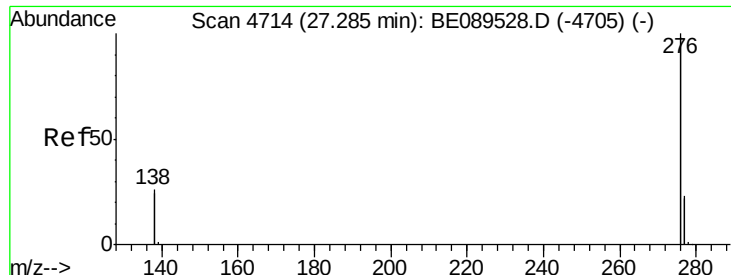


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.08 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

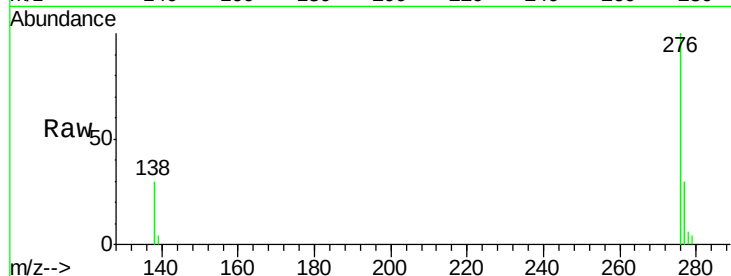
Lab File: BE089570.D

Acq: 7 Feb 2015 23:02

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	11943
Ion	Ratio	Lower	Upper
276	100		
277	29.5	18.6	27.8#
138	30.3	20.9	31.3

