

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089489.D
 Acq On : 1 Feb 2015 7:04
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

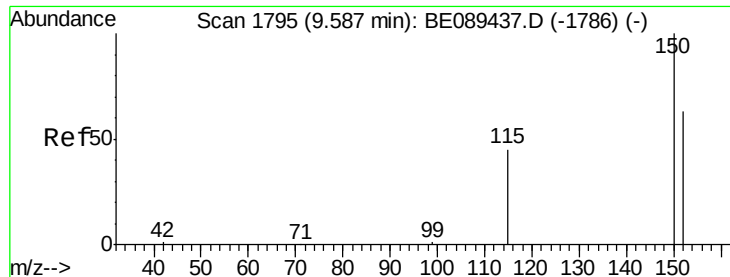
Quant Time: Feb 02 04:11:34 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	66608	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	280928	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	147602	5.00	ng	-0.01
11) Phenanthrene-d10	19.98	188	237935	5.00	ng	0.00
16) Chrysene-d12	23.84	240	171039	5.00	ng	0.00
22) Perylene-d12	25.55	264	140462	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	192572	10.35	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	339531	8.73	ng	0.00
18) Terphenyl-d14	22.48	244	282478	11.03	ng	0.00

Target Compounds				Qvalue		
4) Naphthalene	12.54	128	10479	0.16	ng	99
5) 2-Methylnaphthalene	14.20	142	6151	0.15	ng	96
8) Acenaphthylene	16.34	152	32548	0.12	ng	99
9) Acenaphthene	16.75	154	5716	0.14	ng	99
10) Fluorene	18.00	166	6079	0.14	ng	99
12) Pentachlorophenol	19.66	266	163	Below Cal	#	85
13) Phenanthrene	20.03	178	37324	0.16	ng	97
14) Anthracene	20.12	178	29985	0.14	ng	98
15) Fluoranthene	21.91	202	6413	0.13	ng	97
17) Pyrene	22.23	202	6799	0.15	ng	98
19) Benzo(a)anthracene	23.83	228	15344	0.11	ng	99
20) Chrysene	23.87	228	29423	0.18	ng	95
21) Indeno(1,2,3-cd)pyrene	27.04	276	4437	0.03	ng	# 92
23) Benzo(b)fluoranthene	25.09	252	1043	0.23	ng	# 85
24) Benzo(k)fluoranthene	25.12	252	1624	0.05	ng	# 81
25) Benzo(a)pyrene	25.47	252	1186	0.16	ng	# 80
26) Dibenzo(a,h)anthracene	27.08	278	689	0.15	ng	# 69
27) Benzo(g,h,i)perylene	27.50	276	5445	0.05	ng	# 78

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.00 min

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BNA_E

ClientSampleId :

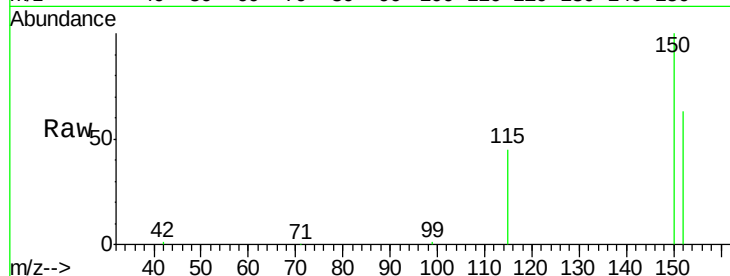
Tgt Ion:152 Resp: 66608

Ion Ratio Lower Upper

152 100

150 158.5 127.2 190.8

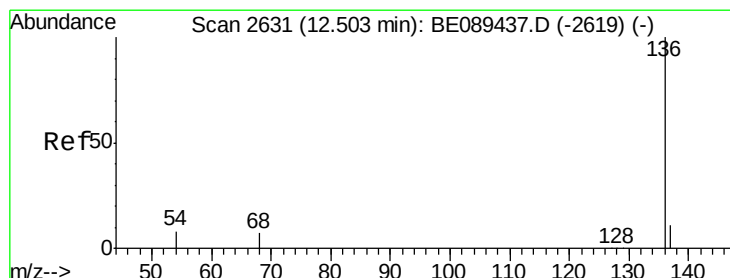
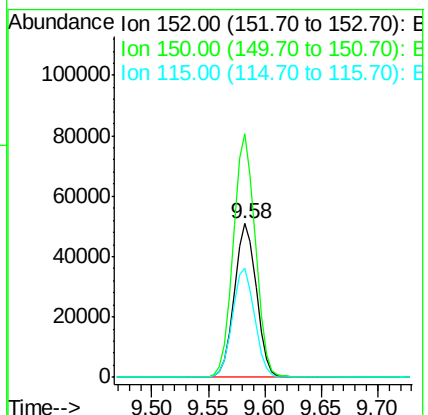
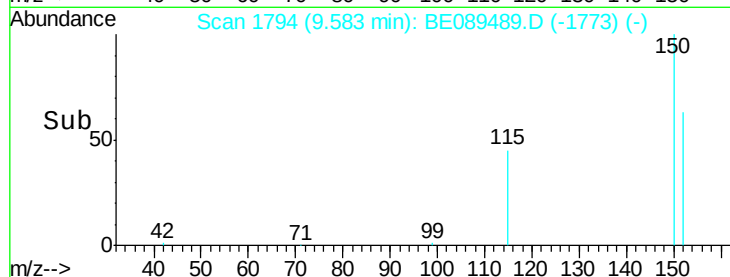
115 71.5 57.5 86.3



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: BE089489.D

Acq: 1 Feb 2015 7:04

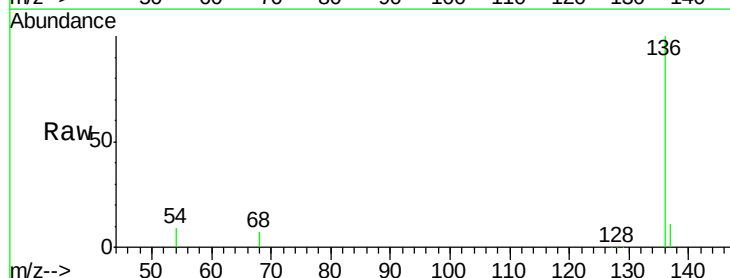
Tgt Ion:136 Resp: 280928

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

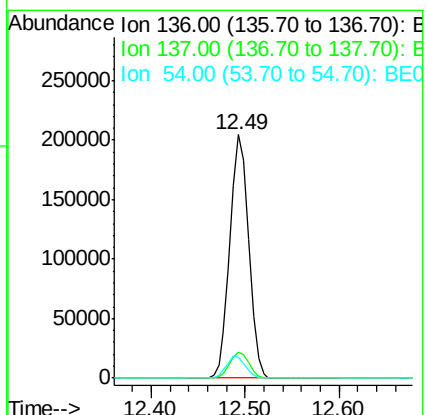
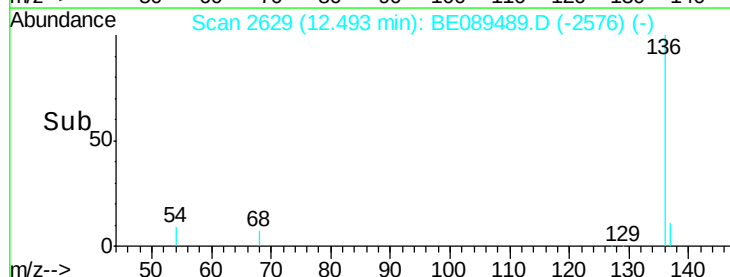
54 8.7 6.6 10.0

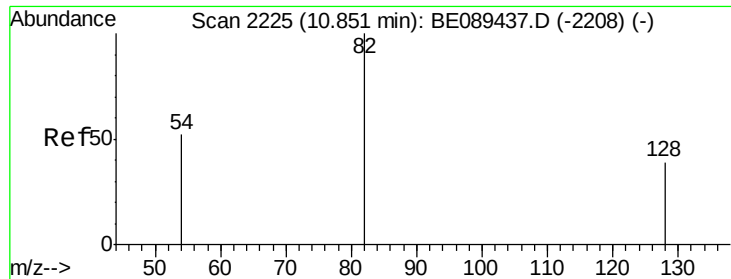


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 10.35 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

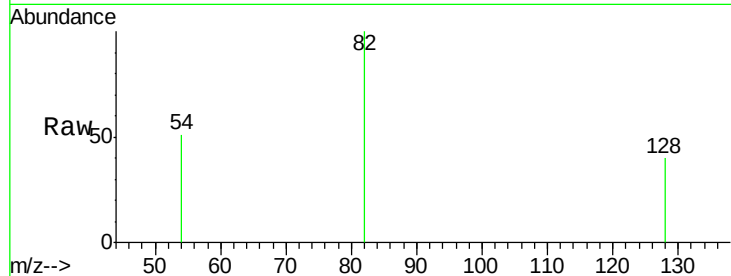
Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

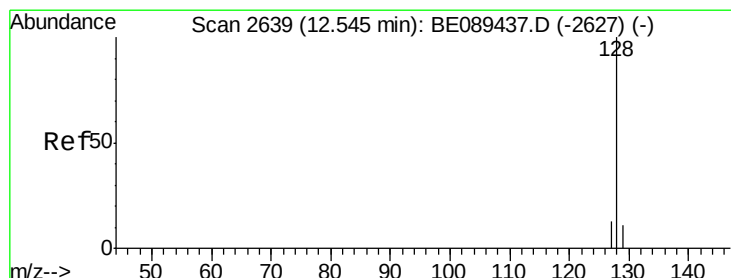
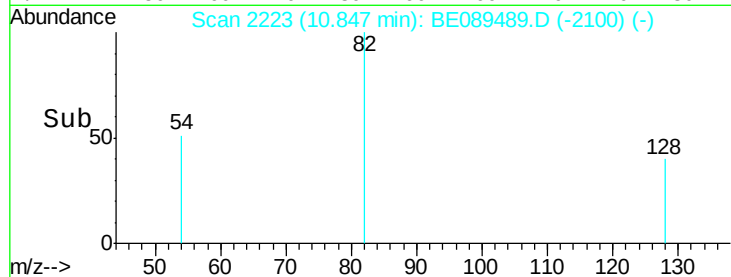
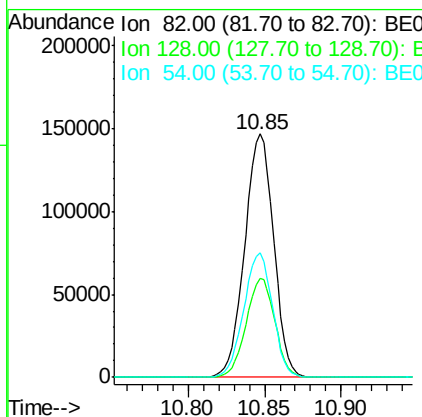
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	192572
Ion	Ratio	Lower	Upper
82	100		
128	40.4	31.2	46.8
54	51.0	41.9	62.9



#4

Naphthalene

Concen: 0.16 ng

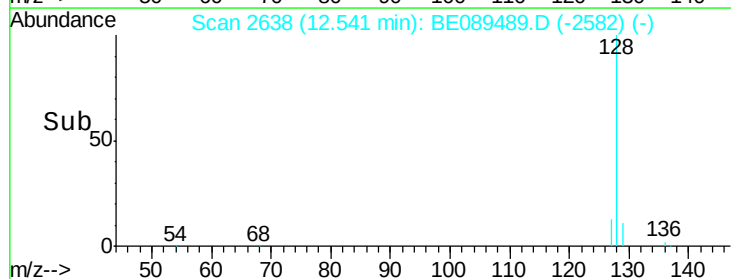
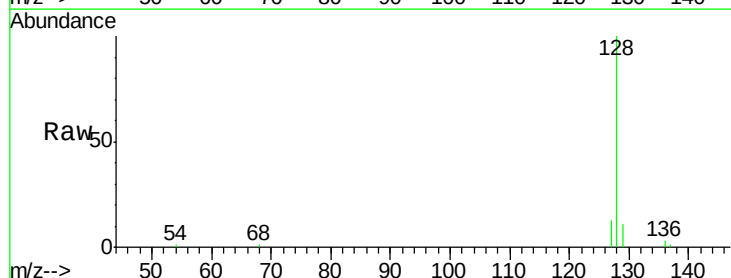
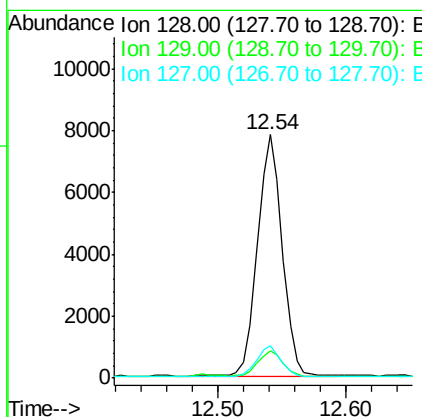
RT: 12.54 min Scan# 2638

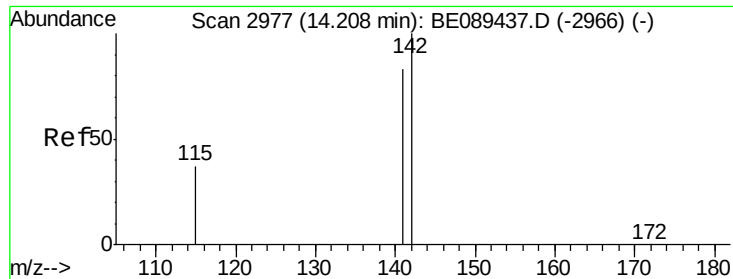
Delta R.T. -0.00 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Tgt Ion:	128	Resp:	10479
Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.2	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: BE089489.D

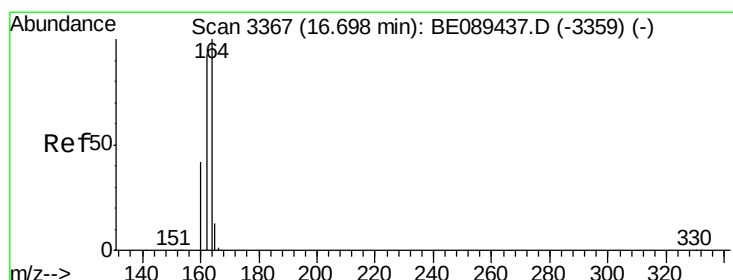
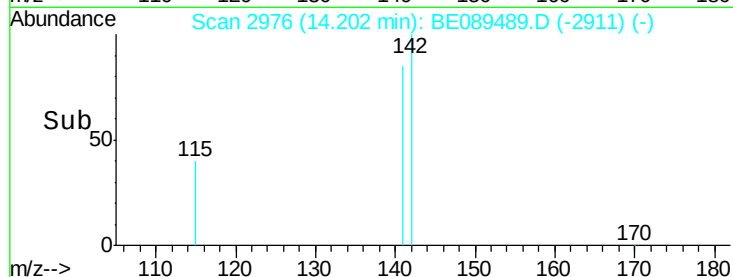
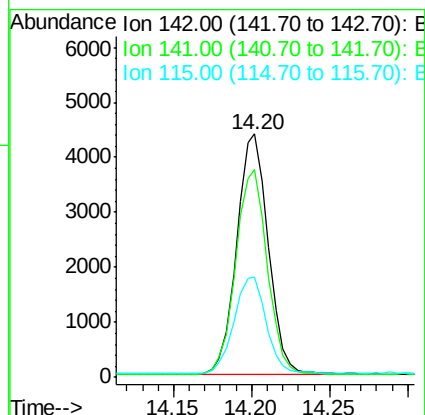
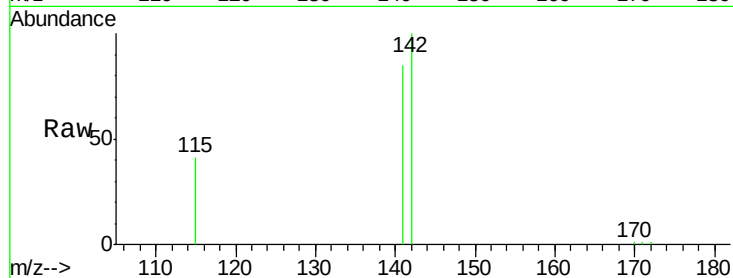
Acq: 1 Feb 2015 7:04

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	6151
Ion Ratio	Lower	Upper	
142	100		
141	85.4	66.1	99.1
115	41.0	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

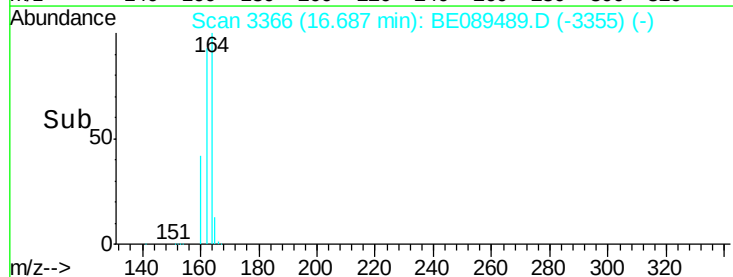
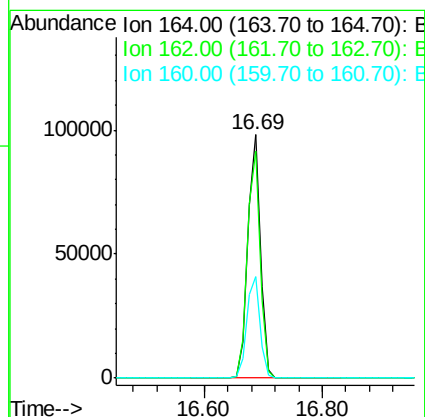
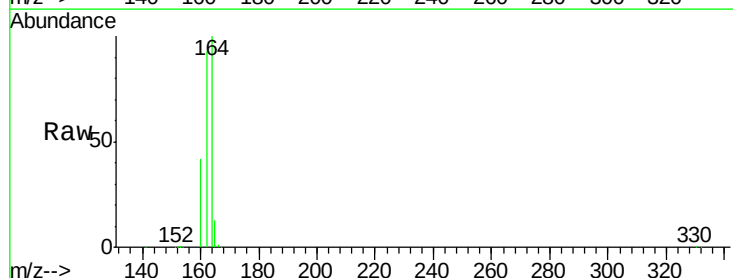
RT: 16.69 min Scan# 3366

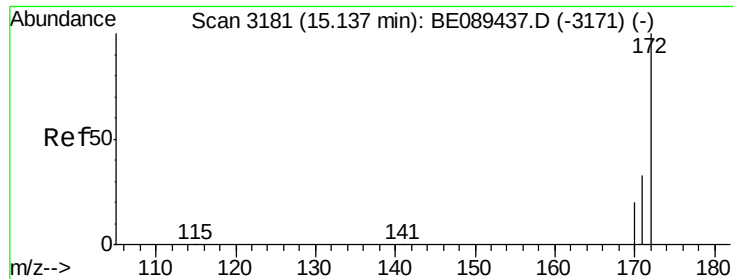
Delta R.T. -0.01 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Tgt Ion:	164	Resp:	147602
Ion Ratio	Lower	Upper	
164	100		
162	93.3	74.7	112.1
160	41.5	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.73 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Instrument :

BNA_E

ClientSampleId :

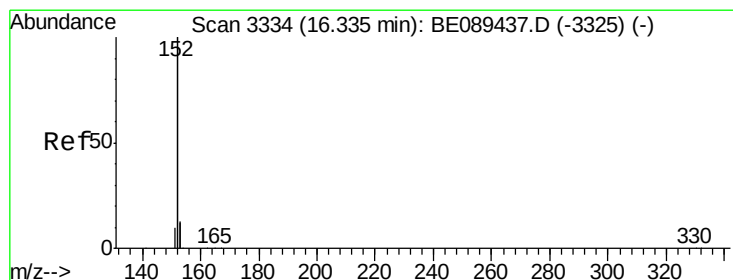
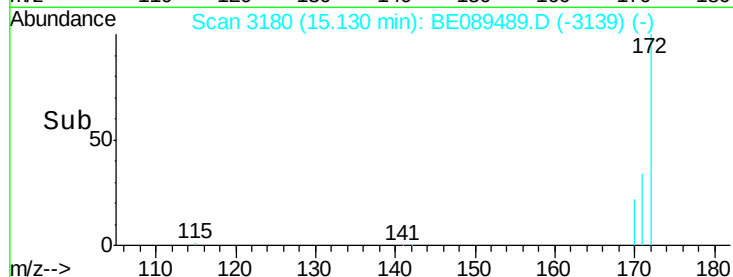
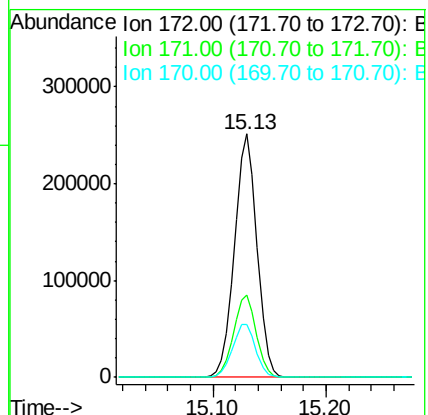
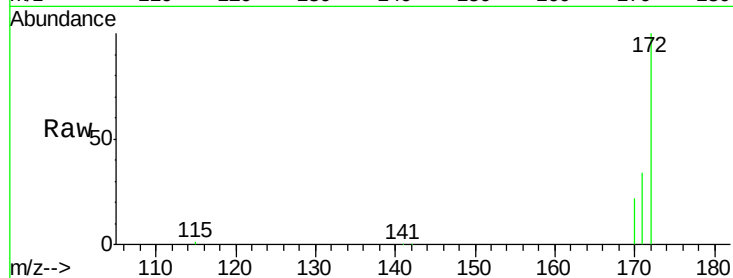
Tgt Ion:172 Resp: 339531

Ion Ratio Lower Upper

172 100

171 33.6 26.2 39.4

170 21.8 16.5 24.7



#8

Acenaphthylene

Concen: 0.12 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

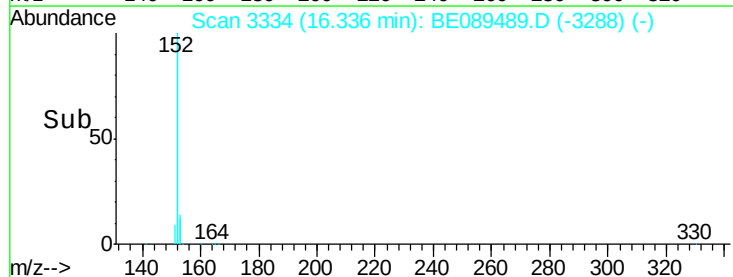
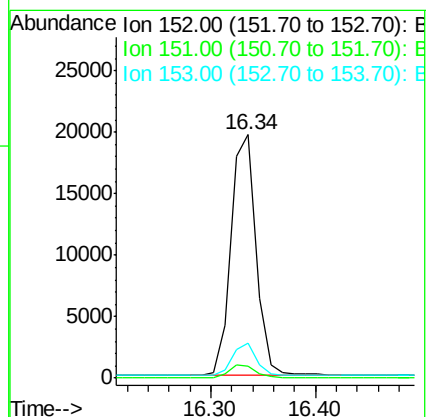
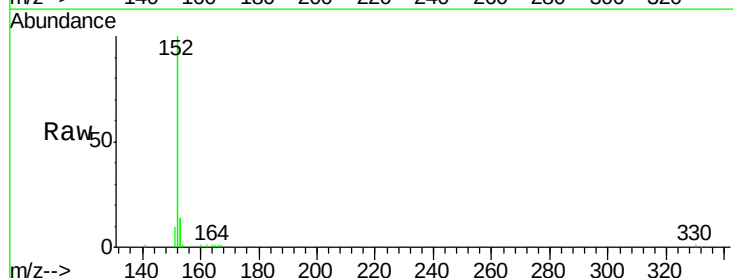
Tgt Ion:152 Resp: 32548

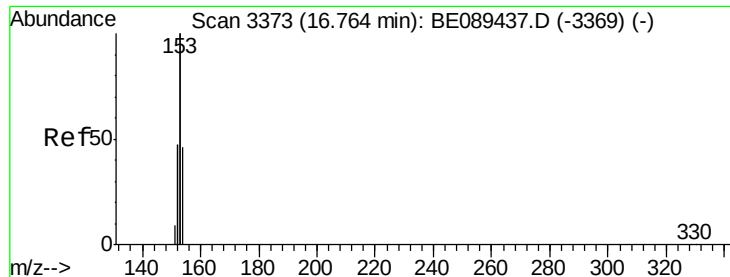
Ion Ratio Lower Upper

152 100

151 5.3 3.9 5.9

153 12.8 10.3 15.5





#9

Acenaphthene

Concen: 0.14 ng

RT: 16.75 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Instrument :

BNA_E

ClientSampleId :

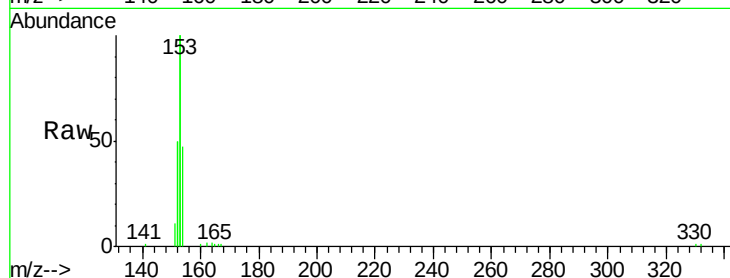
Tgt Ion:154 Resp: 5716

Ion Ratio Lower Upper

154 100

153 424.2 342.3 513.5

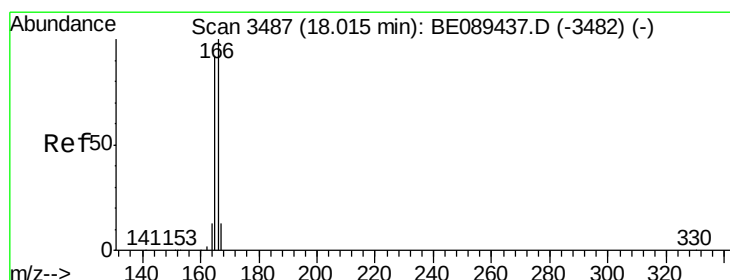
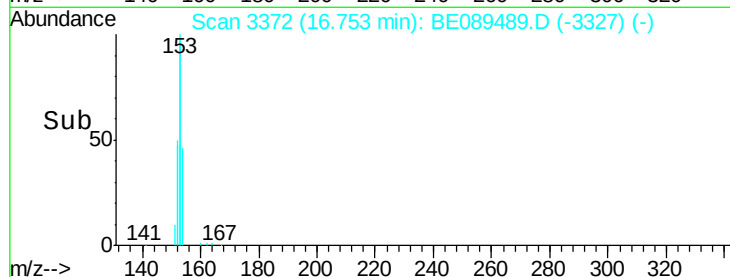
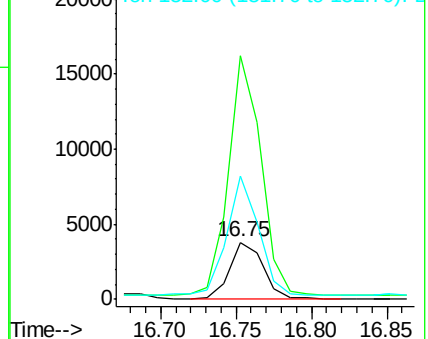
152 207.5 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.14 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

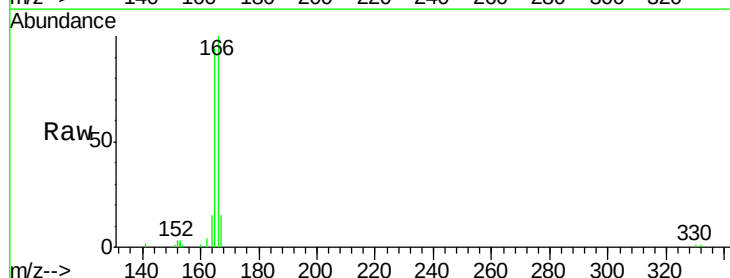
Tgt Ion:166 Resp: 6079

Ion Ratio Lower Upper

166 100

165 92.6 74.4 111.6

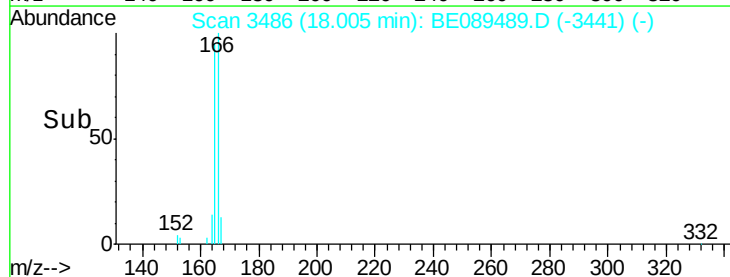
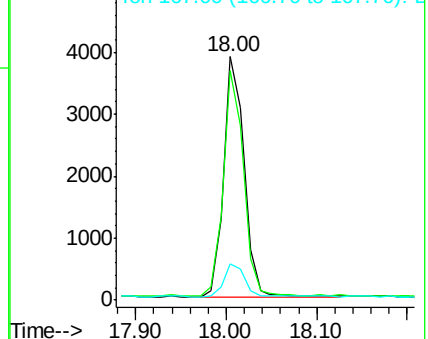
167 13.9 10.6 15.8

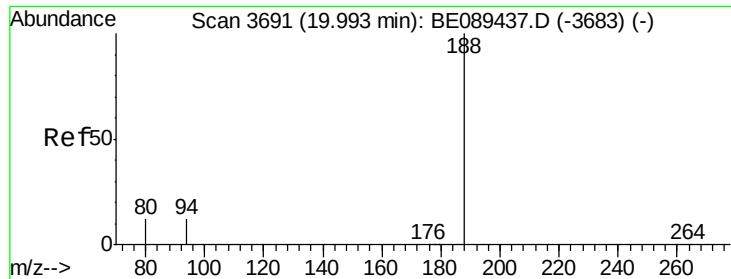


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

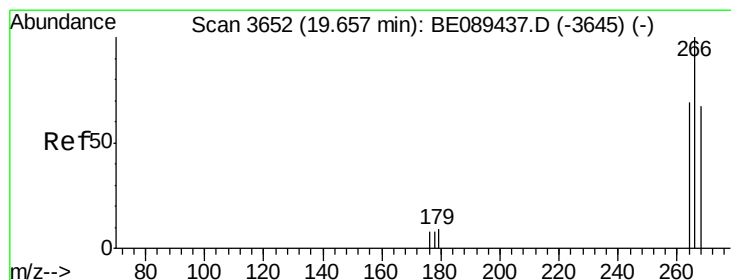
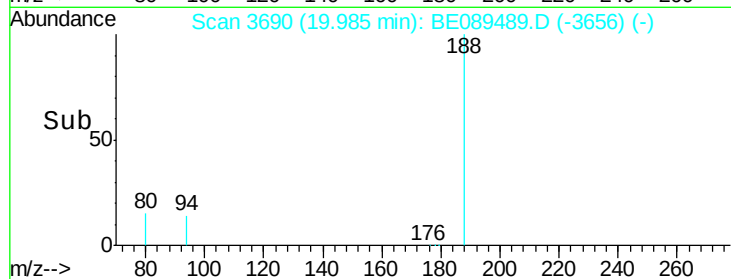
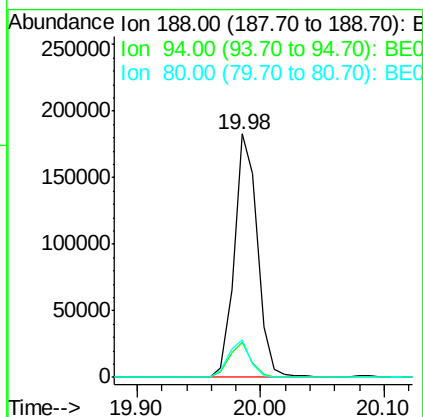
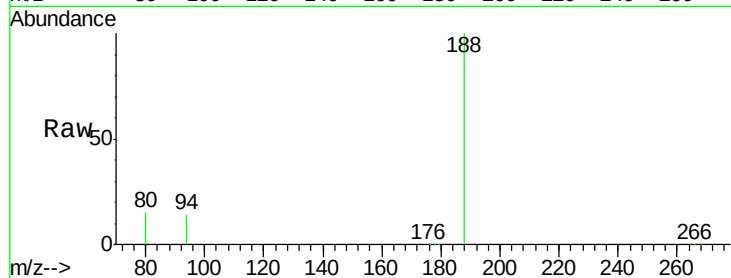




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.98 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089489.D
Acq: 1 Feb 2015 7:04

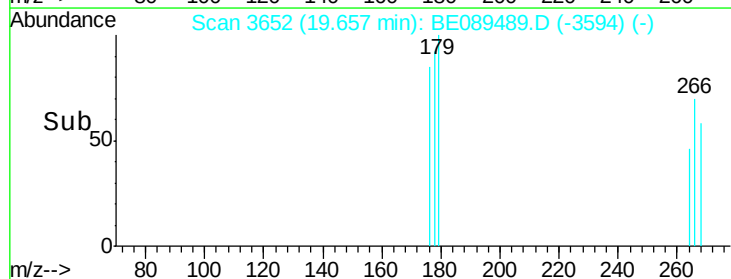
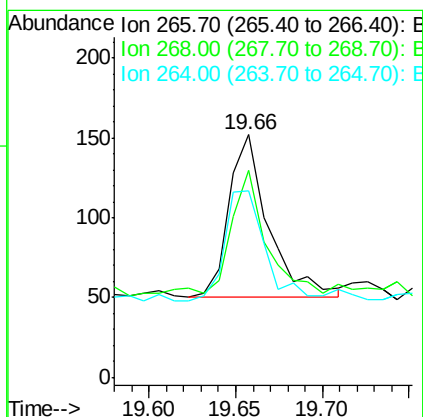
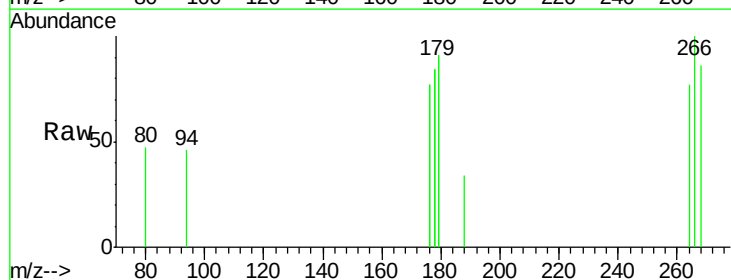
Instrument :
BNA_E
ClientSampleId :

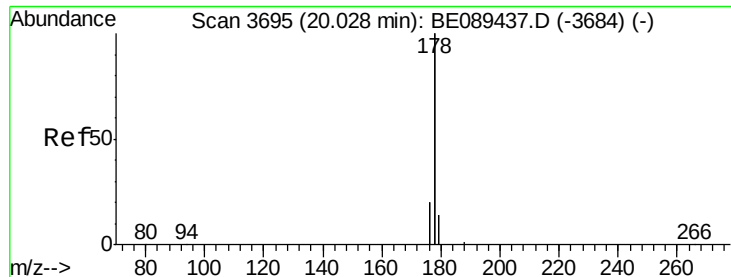
Tgt Ion	Ratio	Lower	Upper
188	100		
94	14.5	9.4	14.0#
80	15.5	9.3	13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089489.D
Acq: 1 Feb 2015 7:04

Tgt Ion	Ratio	Lower	Upper
266	100		
268	85.5	54.2	81.4#
264	77.0	56.2	84.2





#13

Phenanthrene

Concen: 0.16 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Instrument :

BNA_E

ClientSampleId :

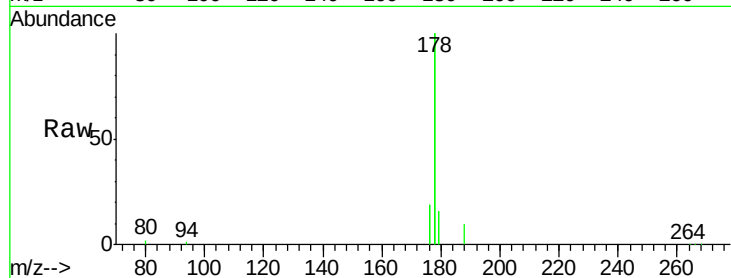
Tgt Ion:178 Resp: 37324

Ion Ratio Lower Upper

178 100

176 18.2 15.1 22.7

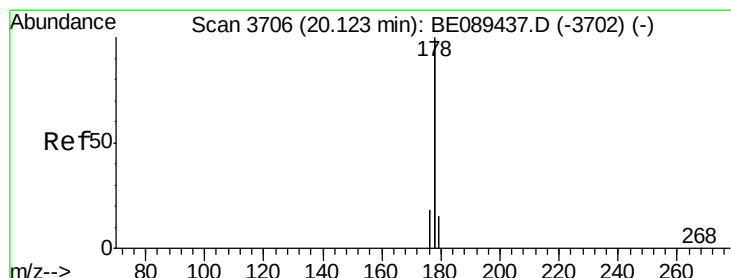
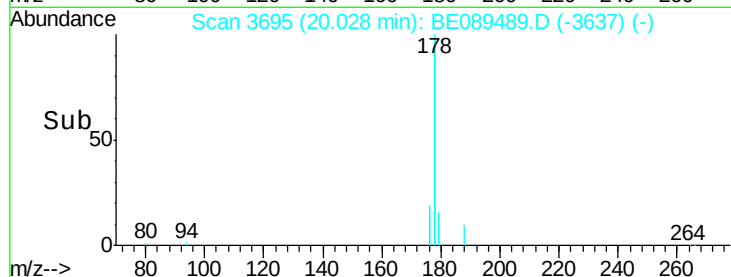
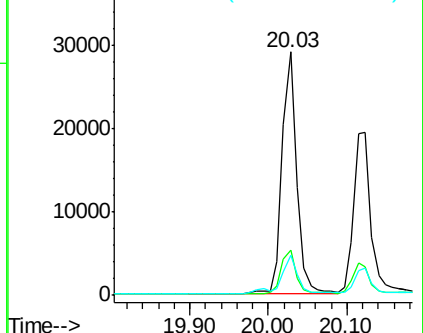
179 17.4 12.3 18.5



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# 3706

Delta R.T. 0.00 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

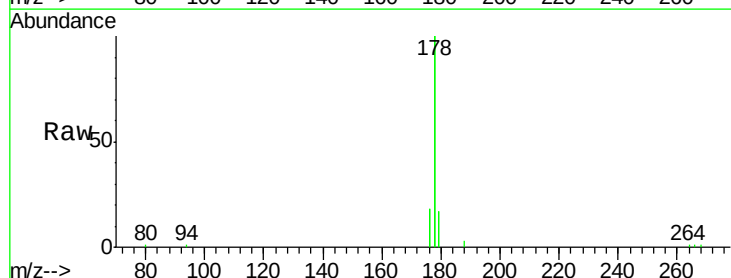
Tgt Ion:178 Resp: 29985

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

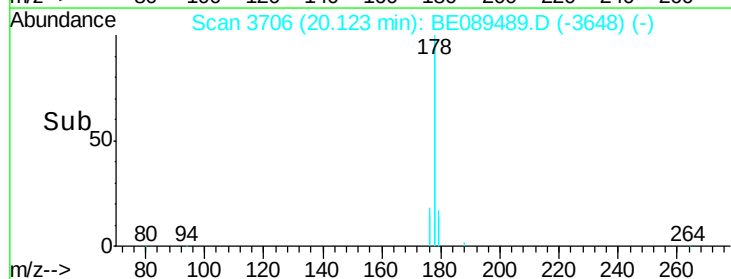
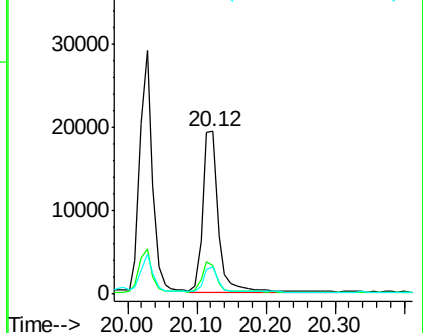
179 13.9 12.2 18.2

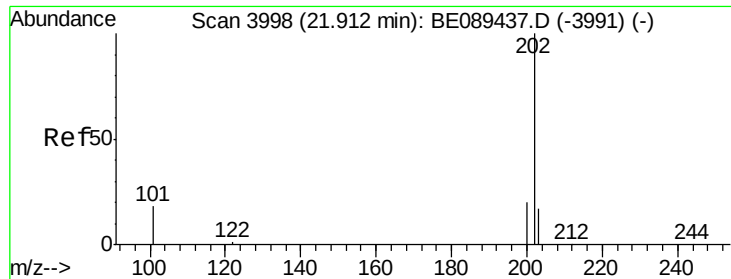


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

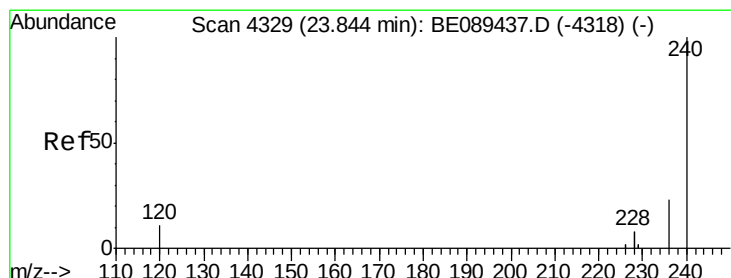
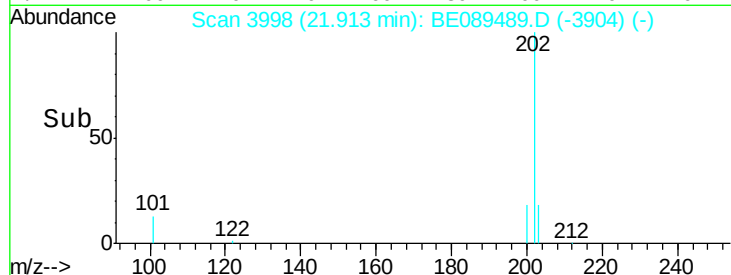
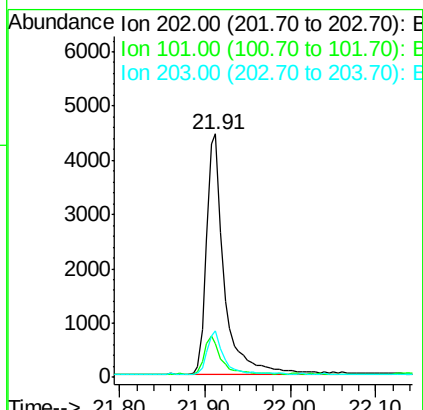
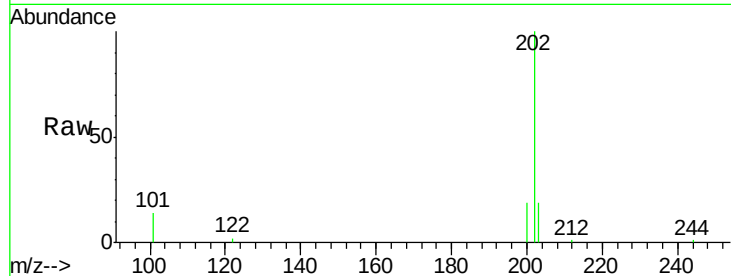




#15
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.91 min Scan# 3998
 Delta R.T. 0.00 min
 Lab File: BE089489.D
 Acq: 1 Feb 2015 7:04

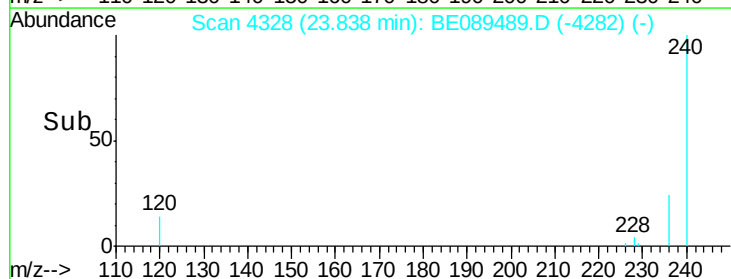
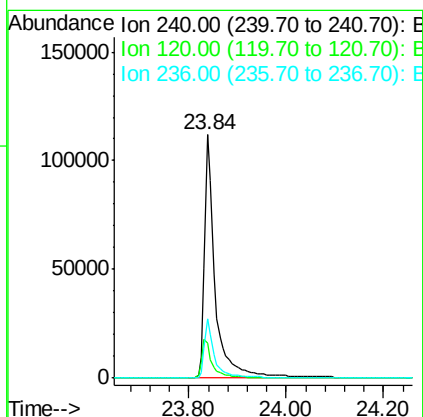
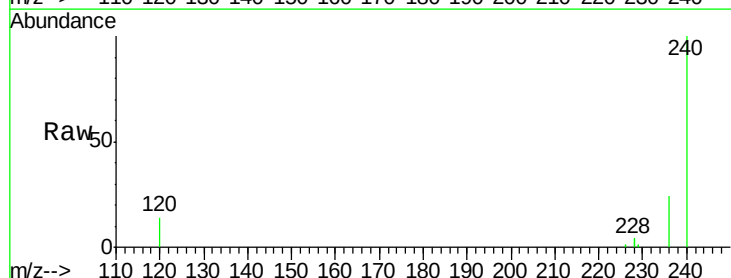
Instrument :
 BNA_E
 ClientSampleId :

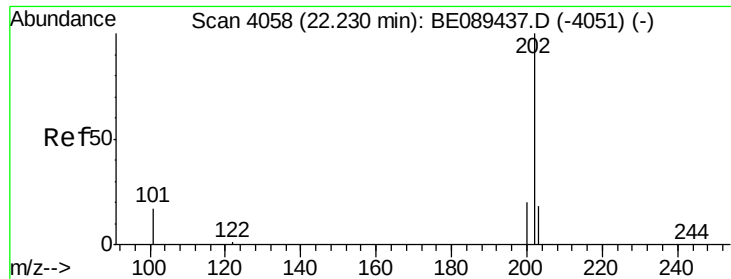
Tgt Ion: 202 Resp: 6413
 Ion Ratio Lower Upper
 202 100
 101 15.5 13.6 20.4
 203 16.4 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4328
 Delta R.T. -0.01 min
 Lab File: BE089489.D
 Acq: 1 Feb 2015 7:04

Tgt Ion: 240 Resp: 171039
 Ion Ratio Lower Upper
 240 100
 120 14.2 8.6 13.0#
 236 24.4 18.7 28.1

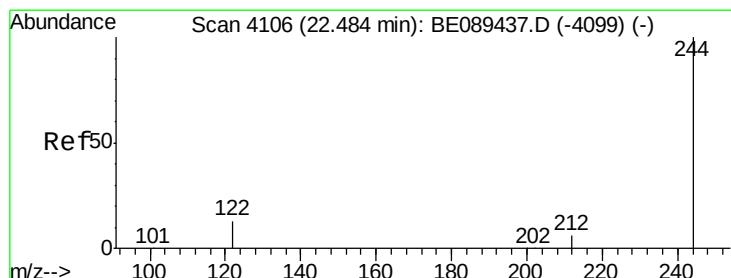
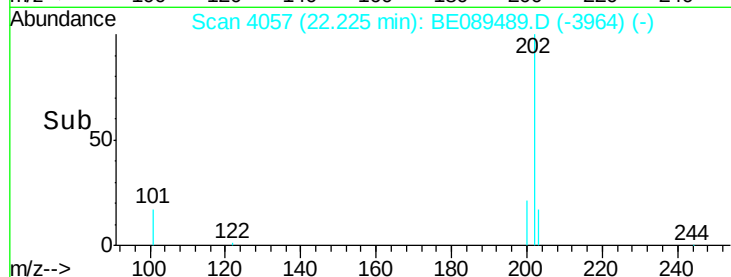
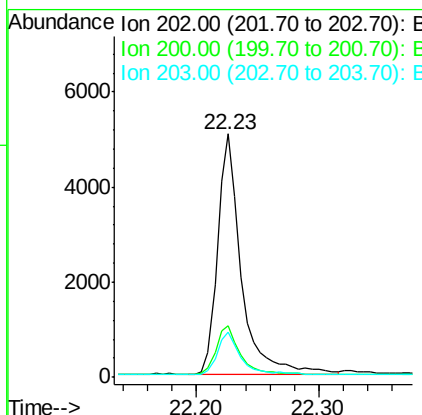
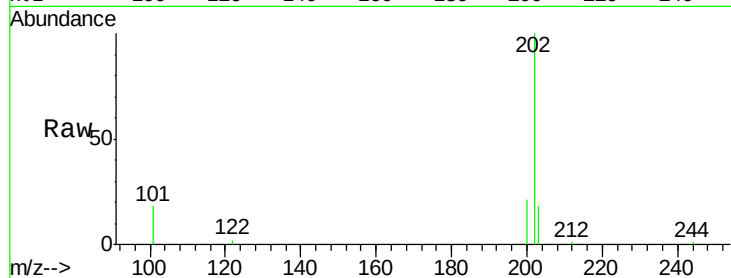




#17
 Pyrene
 Concen: 0.15 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089489.D
 Acq: 1 Feb 2015 7:04

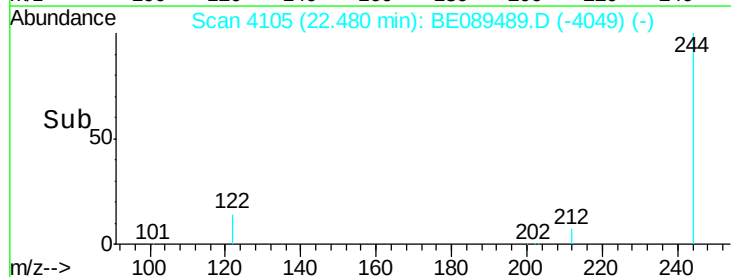
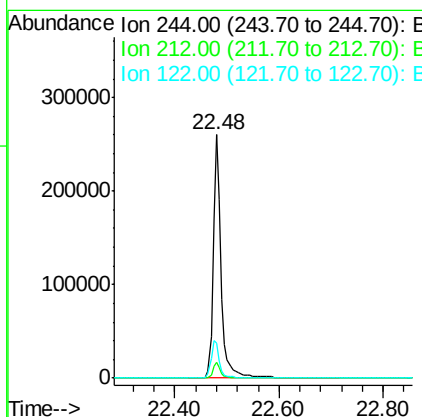
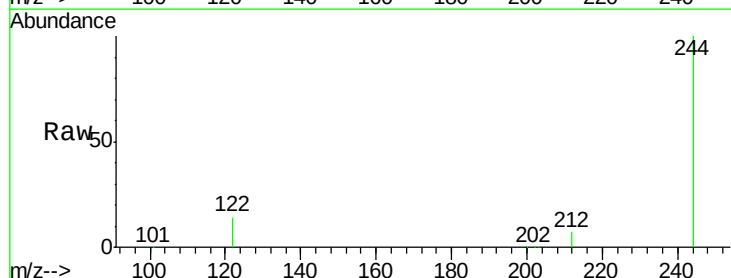
Instrument :
 BNA_E
 ClientSampleId :

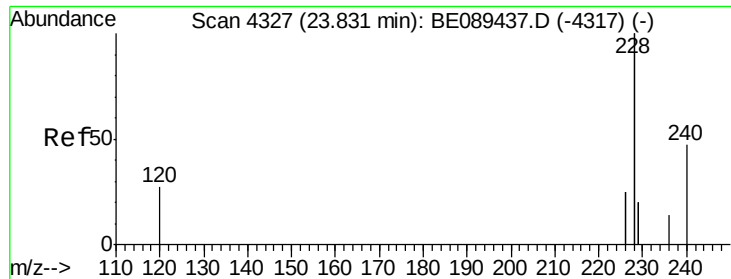
Tgt Ion: 202 Resp: 6799
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.2 24.4
 203 17.8 13.8 20.8



#18
 Terphenyl-d14
 Concen: 11.03 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089489.D
 Acq: 1 Feb 2015 7:04

Tgt Ion: 244 Resp: 282478
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.0 7.6
 122 14.2 10.2 15.4





#19

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.83 min Scan# 4327

Delta R.T. 0.00 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Instrument :

BNA_E

ClientSampleId :

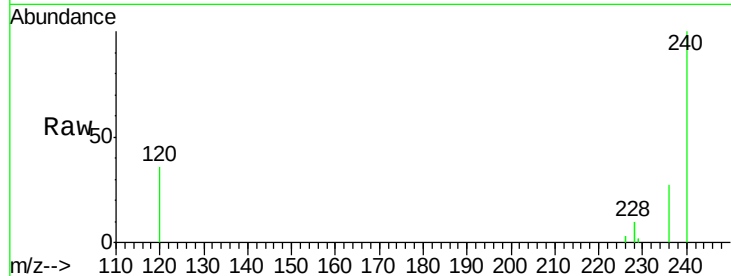
Tgt Ion:228 Resp: 15344

Ion Ratio Lower Upper

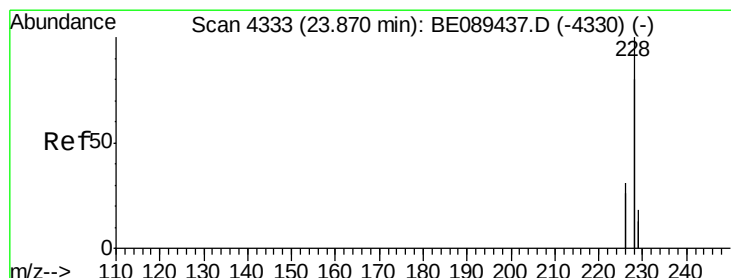
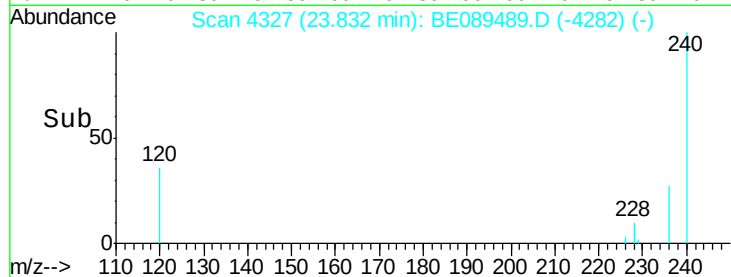
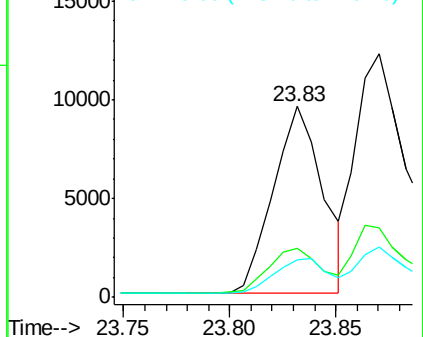
228 100

226 26.0 20.0 30.0

229 19.8 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: 0.18 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

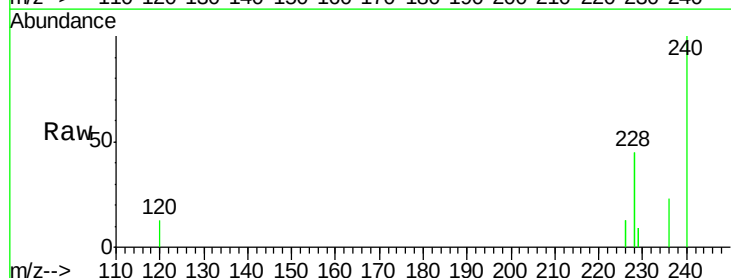
Tgt Ion:228 Resp: 29423

Ion Ratio Lower Upper

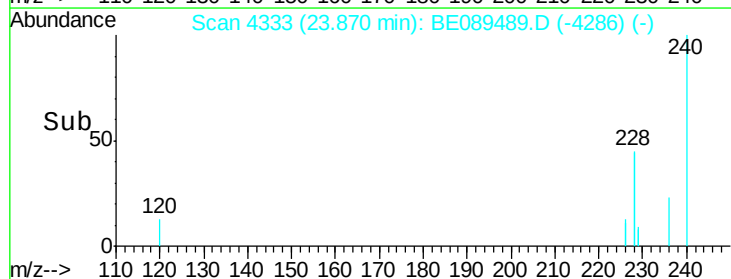
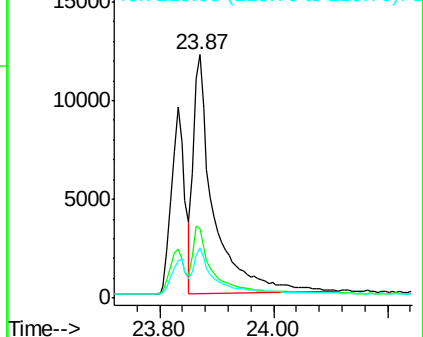
228 100

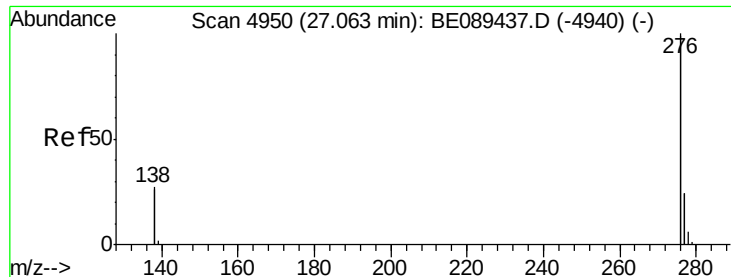
226 28.5 24.5 36.7

229 20.9 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: 27.04 min Scan# 4947

Delta R.T. -0.02 min

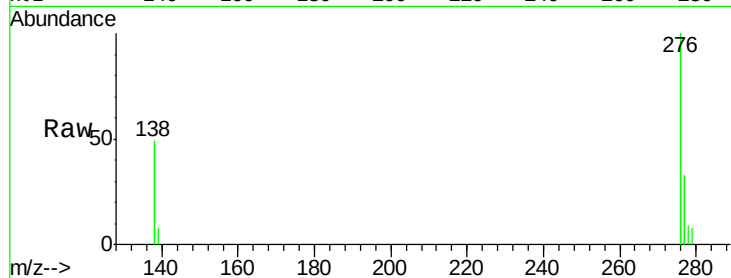
Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

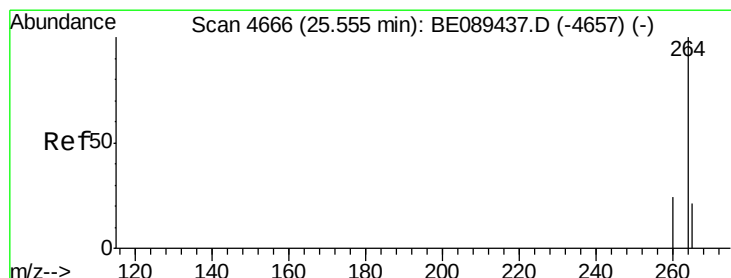
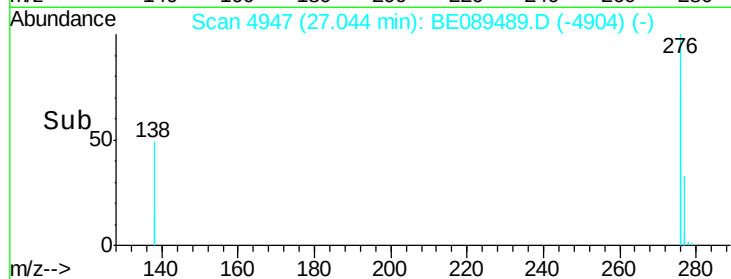
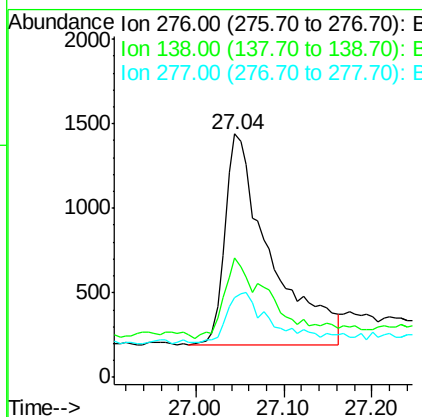
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	4437
Ion	Ratio	Lower	Upper
276	100		
138	38.1	25.4	38.0#
277	23.0	19.8	29.6



#22

Perylene-d12

Concen: 5.00 ng

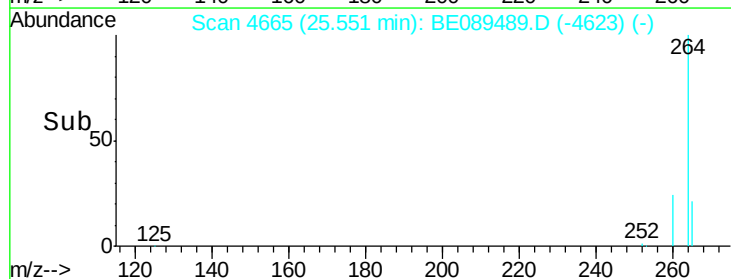
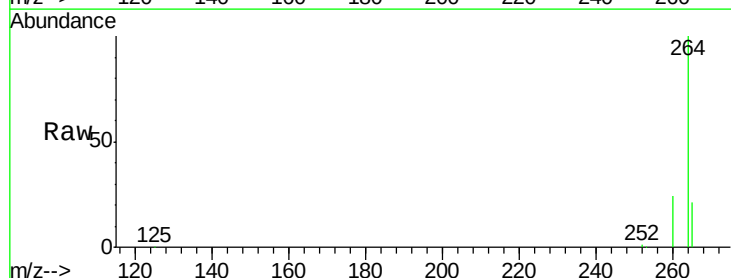
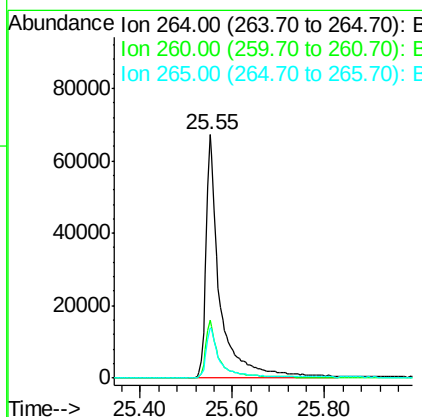
RT: 25.55 min Scan# 4665

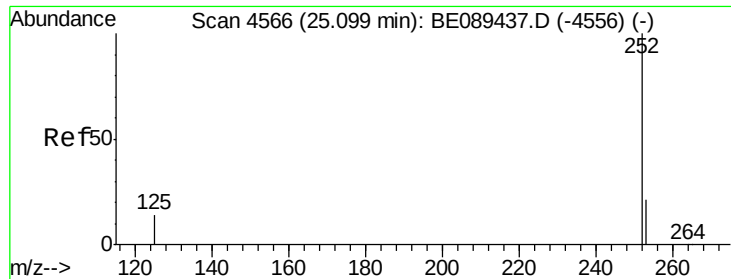
Delta R.T. -0.00 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Tgt Ion:	264	Resp:	140462
Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.4	29.0
265	20.9	17.0	25.6





#23

Benzo(b)fluoranthene

Concen: 0.23 ng

RT: 25.09 min Scan# 4564

Delta R.T. -0.01 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

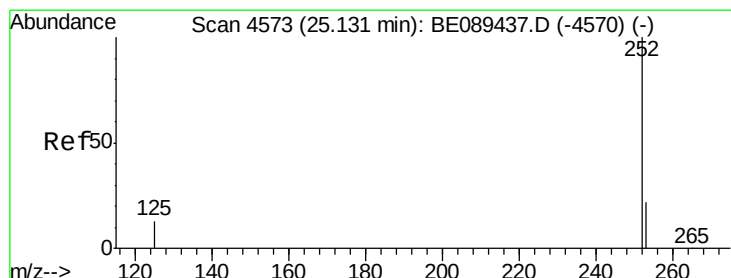
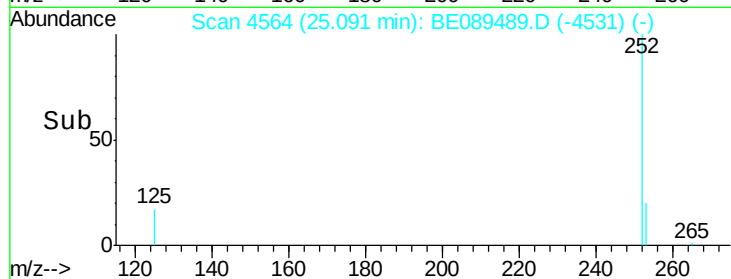
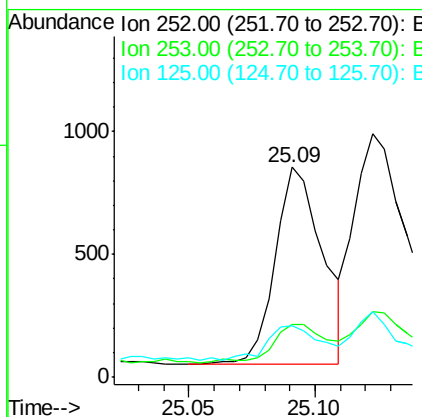
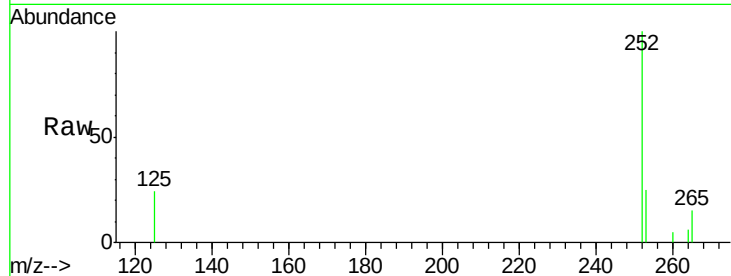
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:252 Resp: 1043

Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.0	25.6
125	24.5	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 25.12 min Scan# 4571

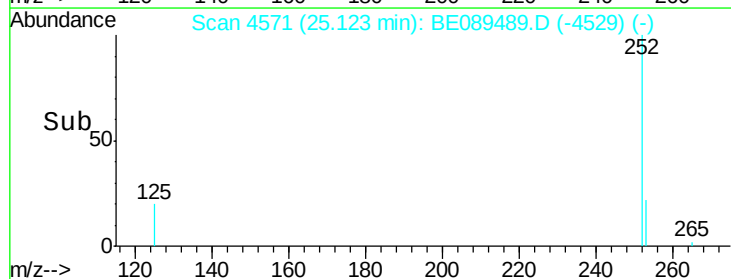
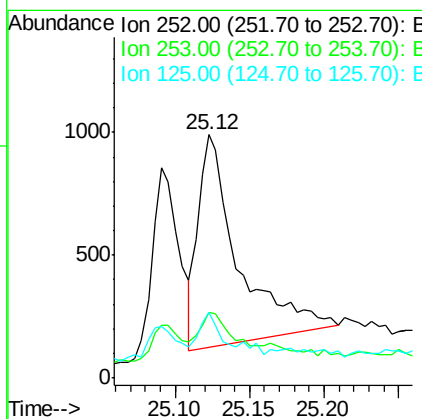
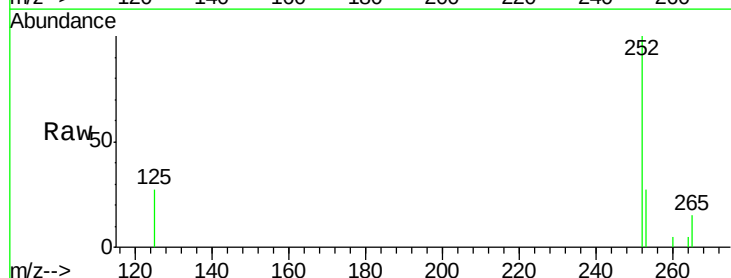
Delta R.T. -0.01 min

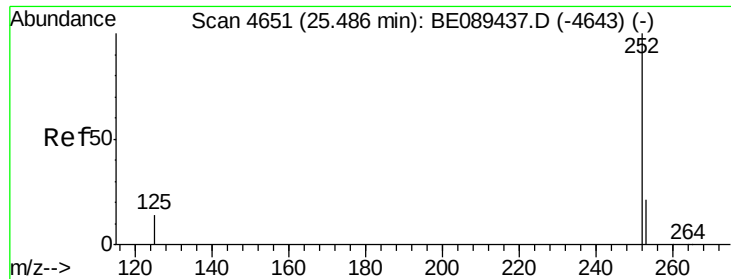
Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Tgt Ion:252 Resp: 1624

Ion	Ratio	Lower	Upper
252	100		
253	26.9	17.4	26.2#
125	26.7	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.47 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Instrument :

BNA_E

ClientSampleId :

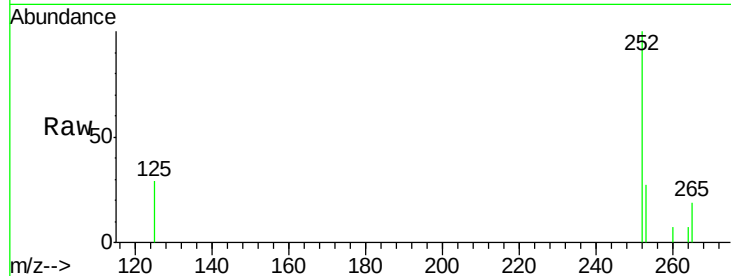
Tgt Ion: 252 Resp: 1186

Ion Ratio Lower Upper

252 100

253 27.1 17.3 25.9#

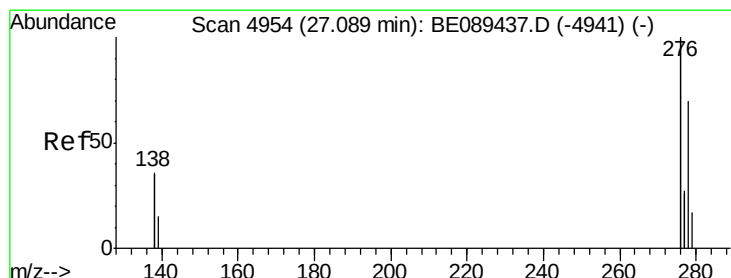
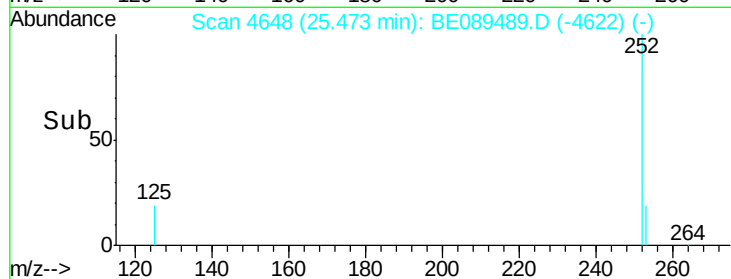
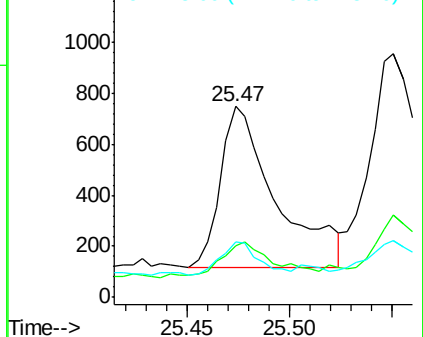
125 28.7 12.0 18.0#



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: 0.15 ng

RT: 27.08 min Scan# 4953

Delta R.T. -0.01 min

Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

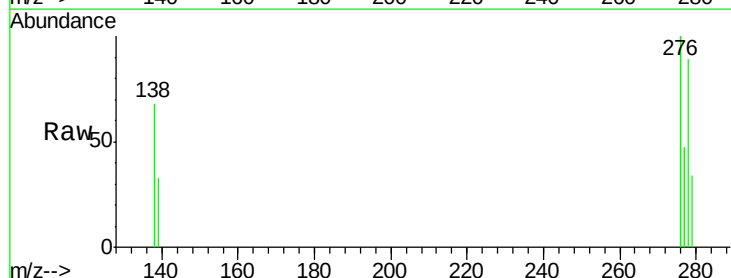
Tgt Ion: 278 Resp: 689

Ion Ratio Lower Upper

278 100

139 37.1 17.0 25.4#

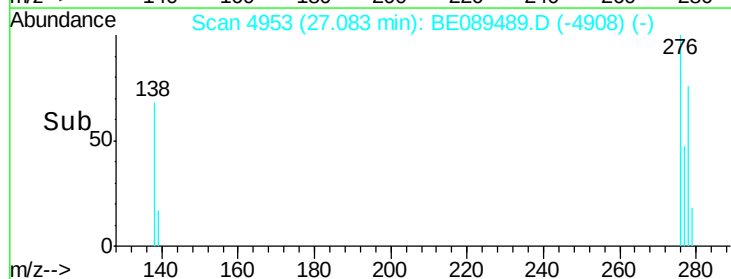
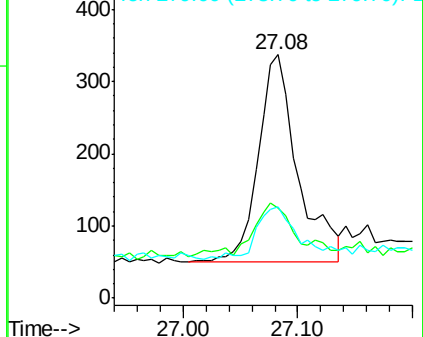
279 37.7 19.1 28.7#

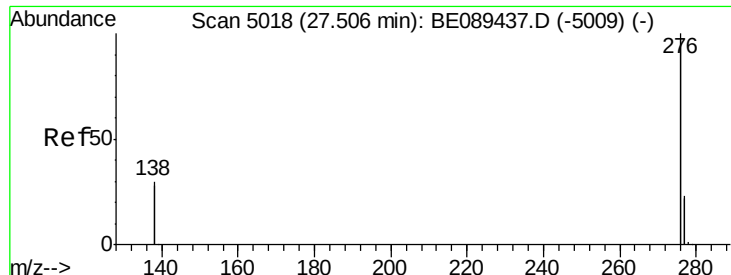


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.05 ng

RT: 27.50 min Scan# 5017

Delta R.T. -0.01 min

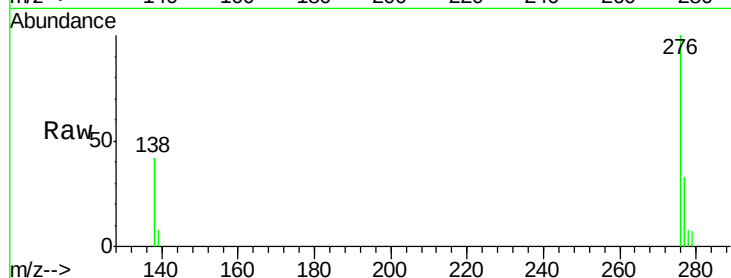
Lab File: BE089489.D

Acq: 1 Feb 2015 7:04

Instrument :

BNA_E

ClientSampleId :



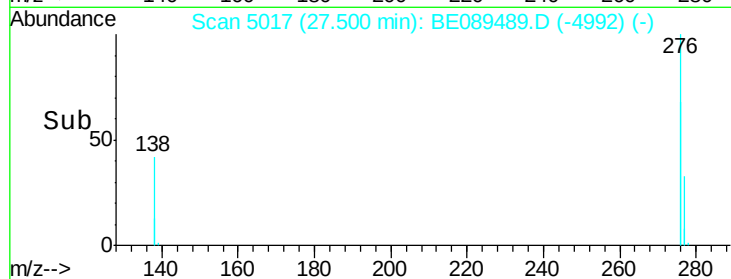
Tgt Ion: 276 Resp: 5445

Ion Ratio Lower Upper

276 100

277 32.6 18.4 27.6#

138 42.3 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

