

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089487.D
 Acq On : 1 Feb 2015 5:47
 Operator : TP/IZ
 Sample : MDL-02-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 04:10:48 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	64726	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	271207	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	142323	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	231764	5.00	ng	0.00
16) Chrysene-d12	23.84	240	174941	5.00	ng	0.00
22) Perylene-d12	25.55	264	146234	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	187984	10.47	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	325033	8.67	ng	0.00
18) Terphenyl-d14	22.48	244	286963	10.95	ng	0.00

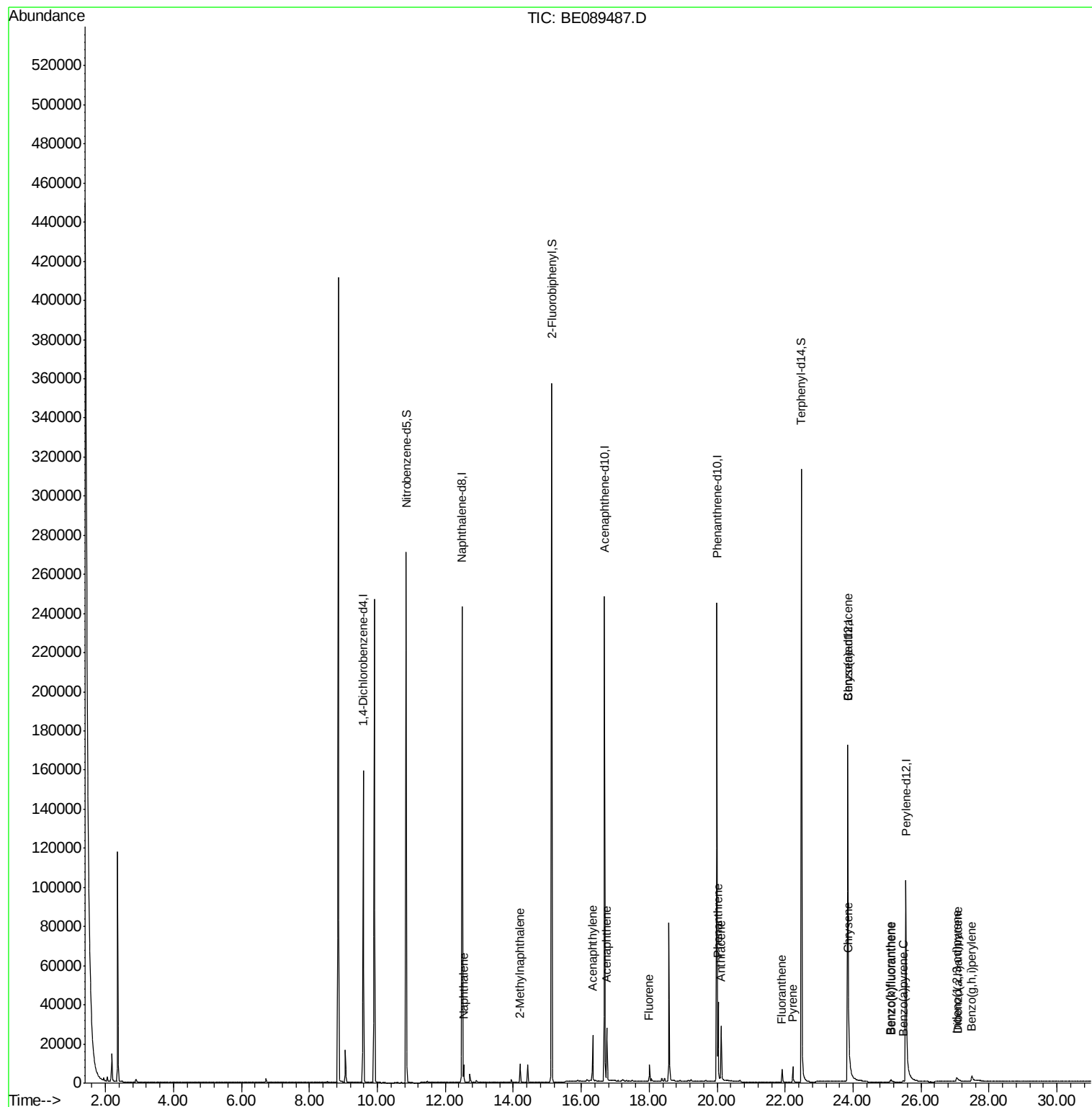
Target Compounds						Qvalue
4) Naphthalene	12.54	128	9769	0.15	ng	99
5) 2-Methylnaphthalene	14.20	142	6100	0.16	ng	96
8) Acenaphthylene	16.34	152	32196	0.13	ng	100
9) Acenaphthene	16.75	154	5559	0.14	ng	98
10) Fluorene	18.00	166	6012	0.14	ng	100
12) Pentachlorophenol	19.66	266	295	Below Cal		94
13) Phenanthrene	20.03	178	37705	0.17	ng	99
14) Anthracene	20.11	178	30200	0.15	ng	96
15) Fluoranthene	21.91	202	6621	0.13	ng	99
17) Pyrene	22.22	202	7131	0.15	ng	99
19) Benzo(a)anthracene	23.83	228	15939	0.11	ng	99
20) Chrysene	23.87	228	29193	0.18	ng	95
21) Indeno(1,2,3-cd)pyrene	27.05	276	4454	0.03	ng	96
23) Benzo(b)fluoranthene	25.09	252	985	0.22	ng	# 75
24) Benzo(k)fluoranthene	25.12	252	1795	0.05	ng	# 83
25) Benzo(a)pyrene	25.47	252	1248	0.16	ng	# 75
26) Dibenzo(a,h)anthracene	27.08	278	801	0.16	ng	# 48
27) Benzo(g,h,i)perylene	27.49	276	6692	0.06	ng	# 84

(#) = 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

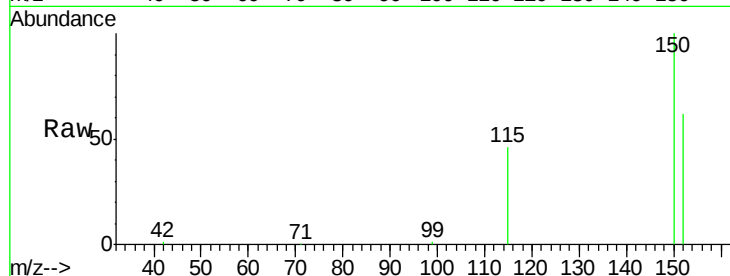
Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :



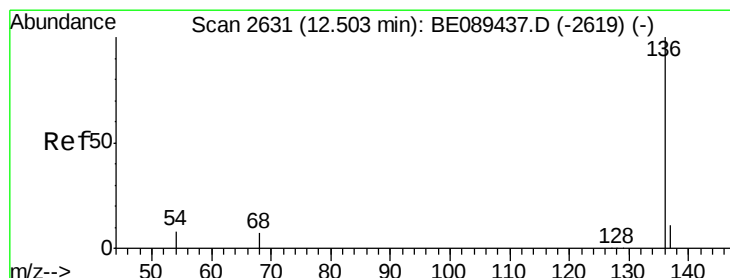
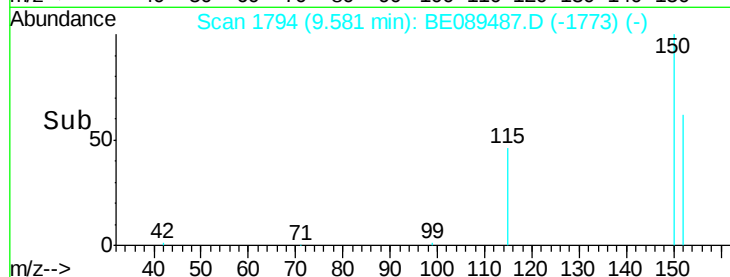
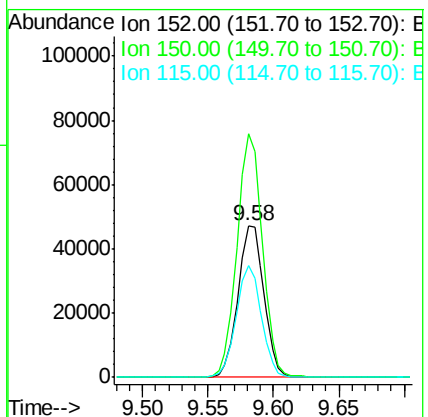
Tgt Ion:152 Resp: 64726

Ion Ratio Lower Upper

152 100

150 160.2 127.2 190.8

115 73.5 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

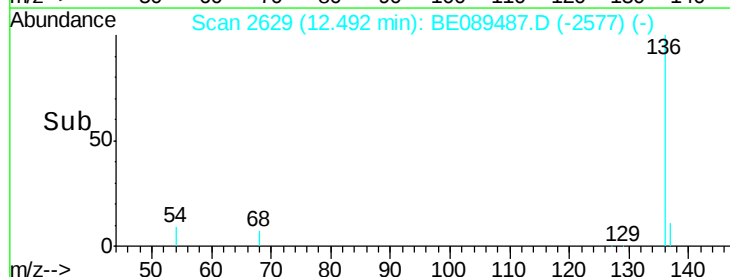
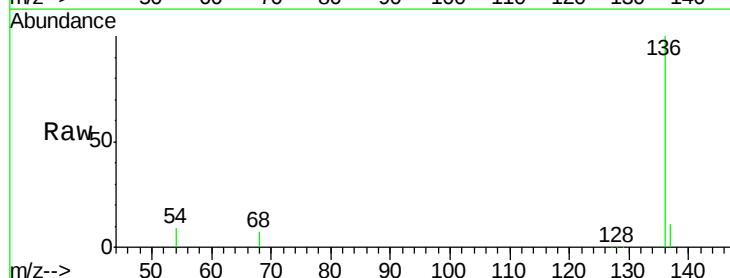
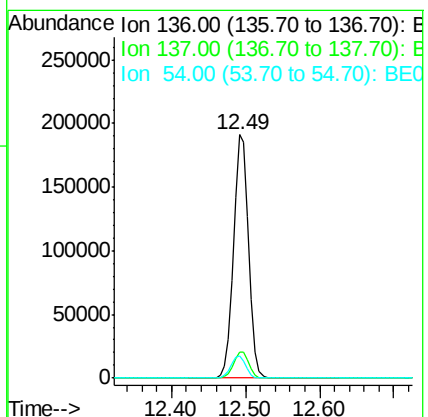
Tgt Ion:136 Resp: 271207

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

54 9.3 6.6 10.0





#3

Nitrobenzene-d5

Concen: 10.47 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

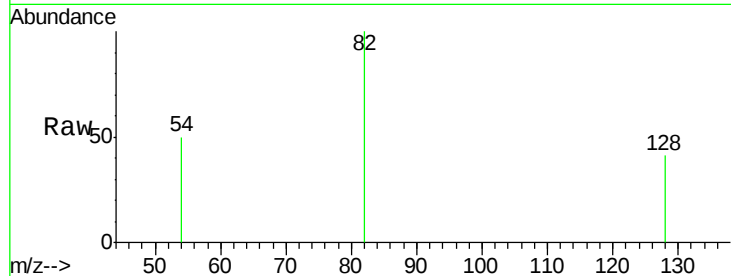
Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

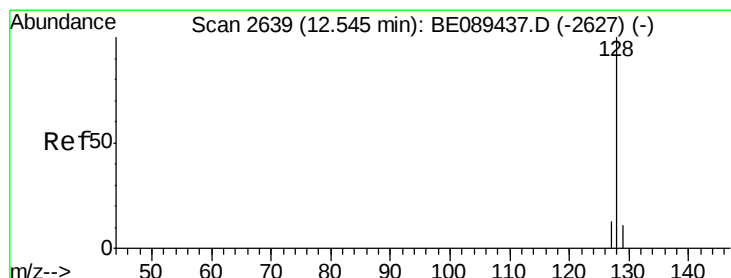
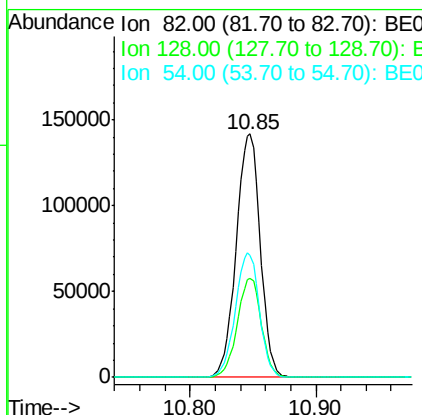
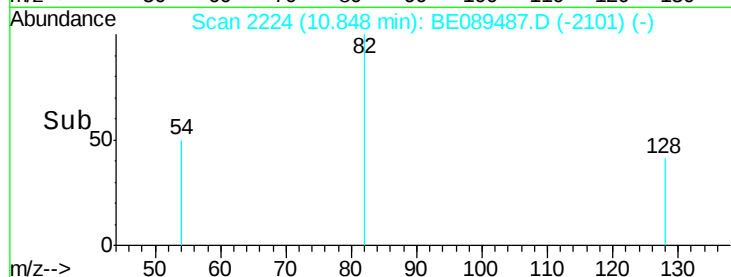
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	187984
Ion	Ratio	Lower	Upper
82	100		
128	40.9	31.2	46.8
54	50.3	41.9	62.9



#4

Naphthalene

Concen: 0.15 ng

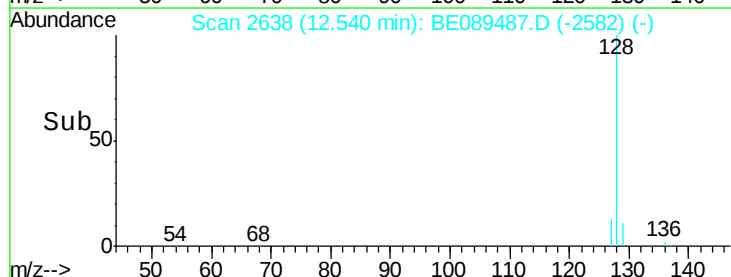
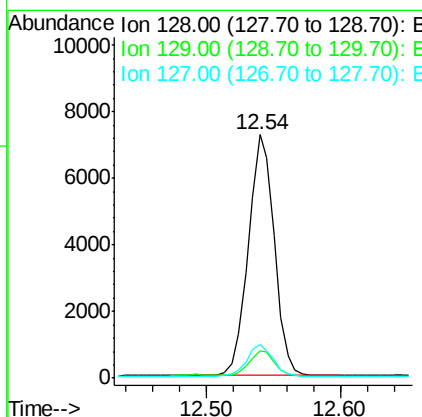
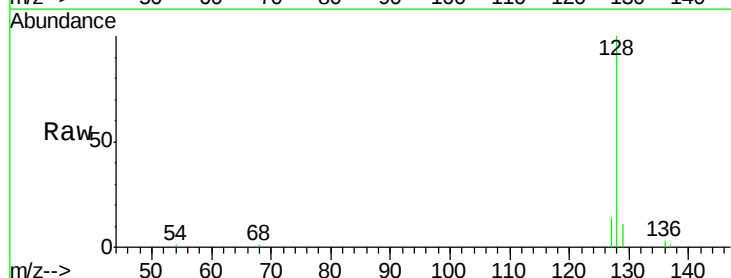
RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Tgt Ion:	128	Resp:	9769
Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.6	10.6	16.0





#5

2-Methylnaphthalene

Concen: 0.16 ng

RT: 14.20 min Scan# 2975

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

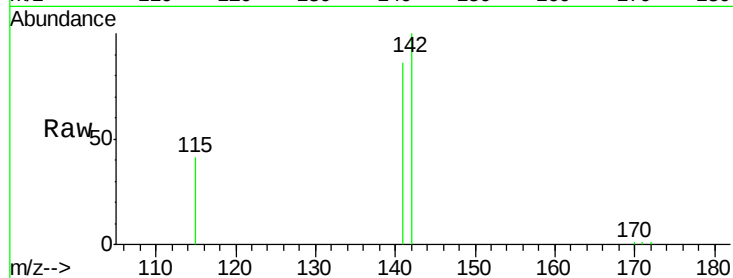
Tgt Ion:142 Resp: 6100

Ion Ratio Lower Upper

142 100

141 86.2 66.1 99.1

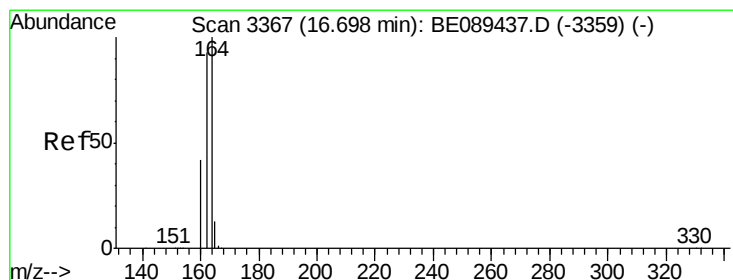
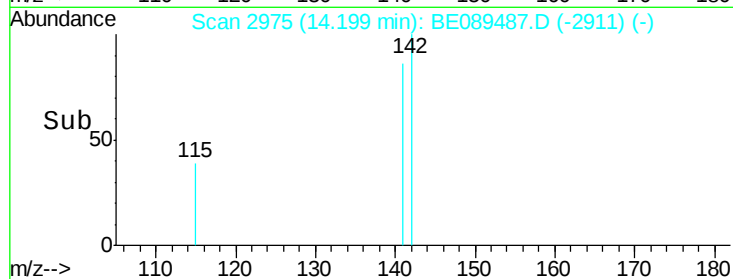
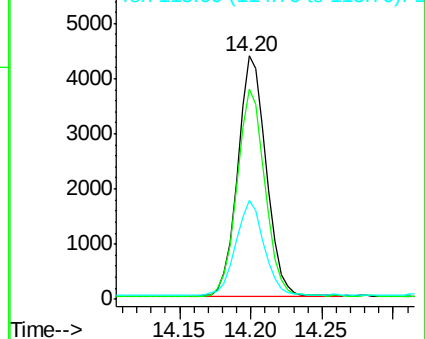
115 40.5 29.9 44.9



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: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

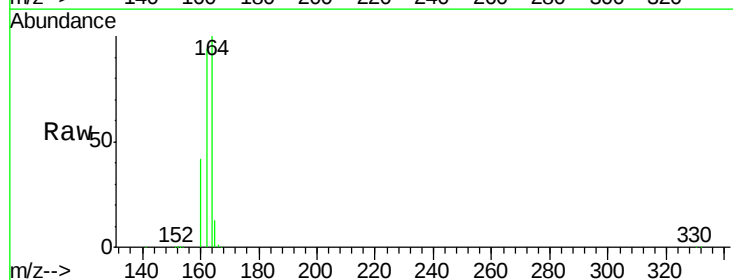
Tgt Ion:164 Resp: 142323

Ion Ratio Lower Upper

164 100

162 93.8 74.7 112.1

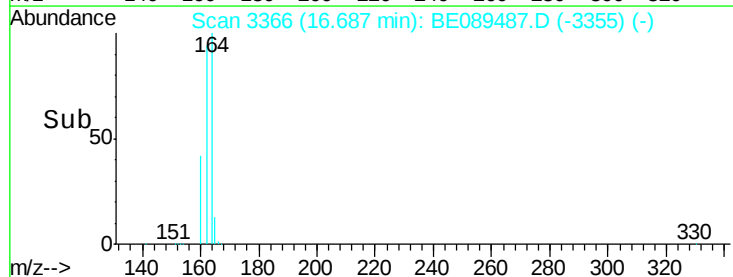
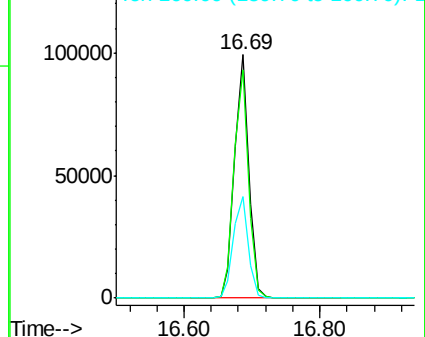
160 41.6 33.4 50.0



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: 8.67 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

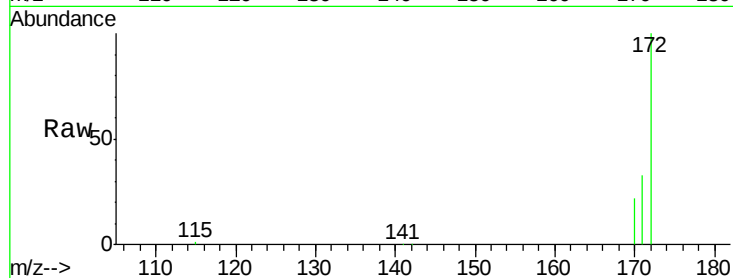
Tgt Ion:172 Resp: 325033

Ion Ratio Lower Upper

172 100

171 33.4 26.2 39.4

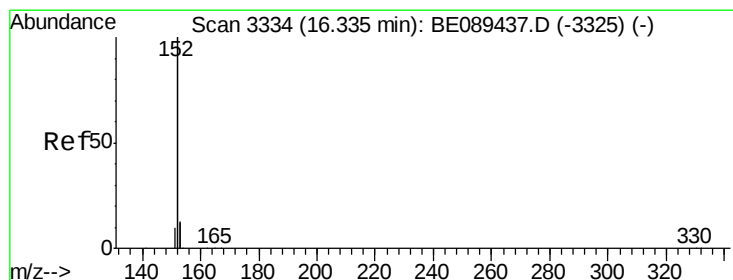
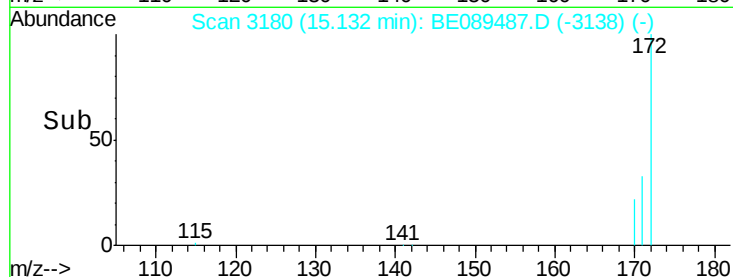
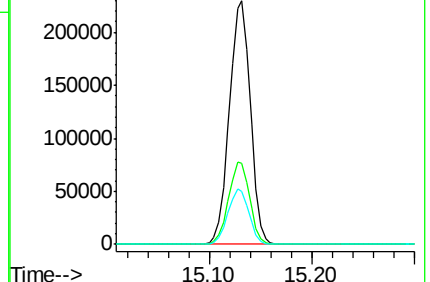
170 21.6 16.5 24.7



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: 0.13 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

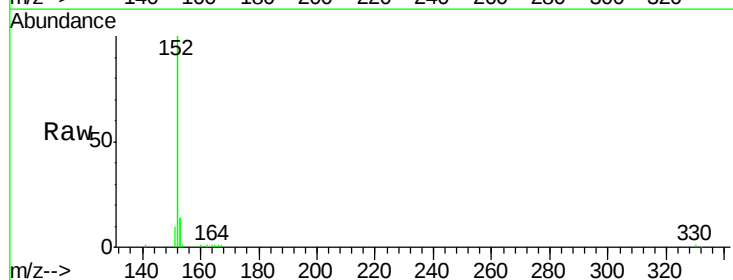
Tgt Ion:152 Resp: 32196

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

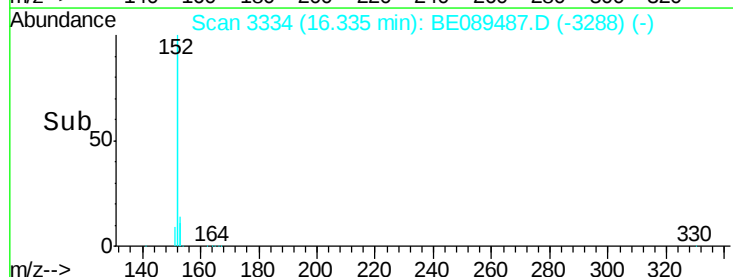
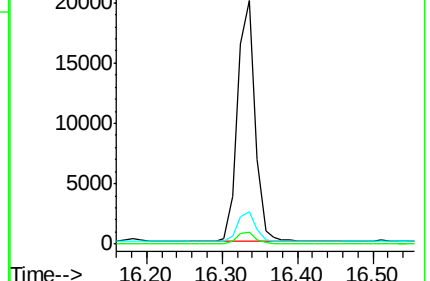
153 12.8 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.14 ng

RT: 16.75 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

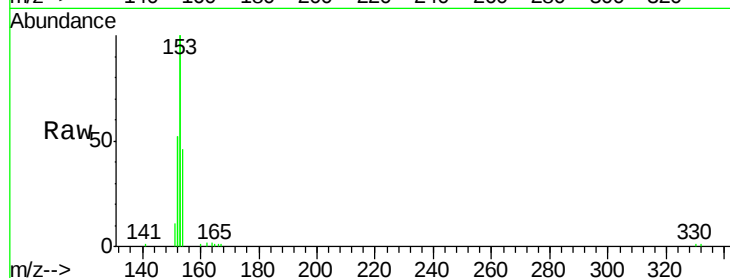
Tgt Ion:154 Resp: 5559

Ion Ratio Lower Upper

154 100

153 426.3 342.3 513.5

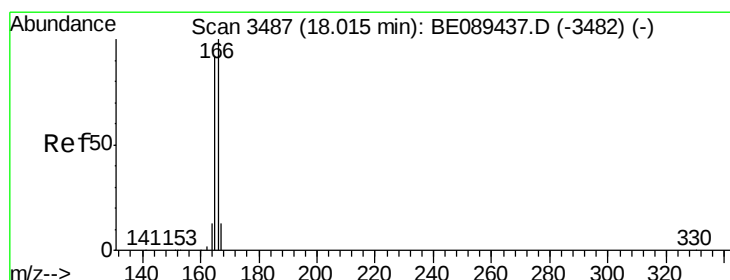
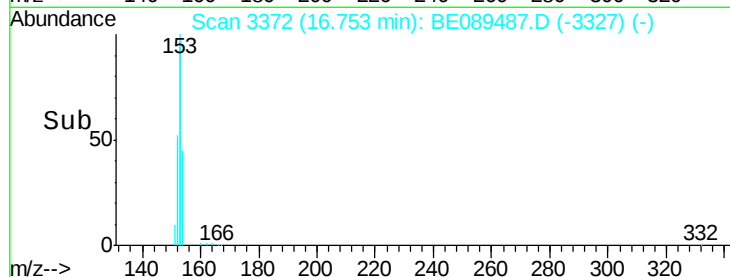
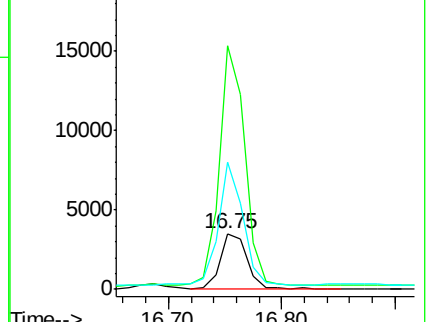
152 214.4 165.5 248.3



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: 0.14 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

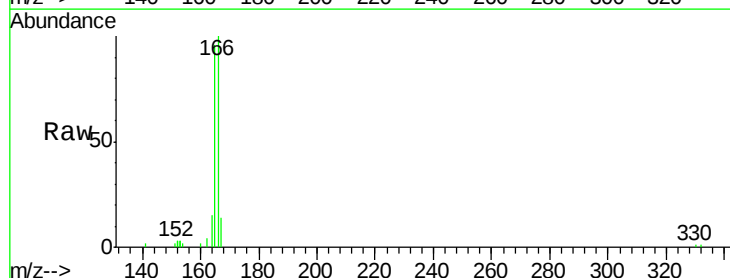
Tgt Ion:166 Resp: 6012

Ion Ratio Lower Upper

166 100

165 92.8 74.4 111.6

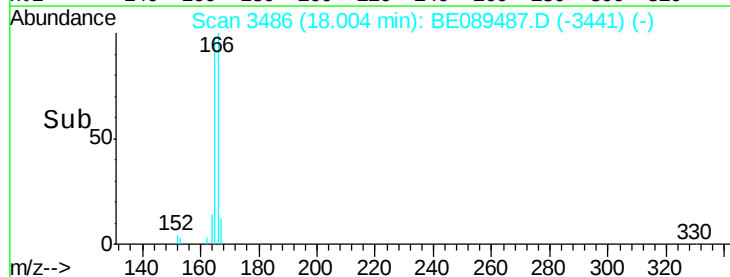
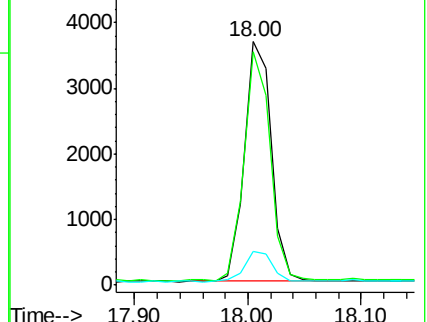
167 13.2 10.6 15.8

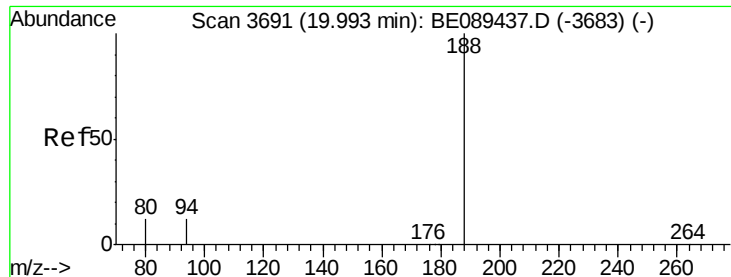


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

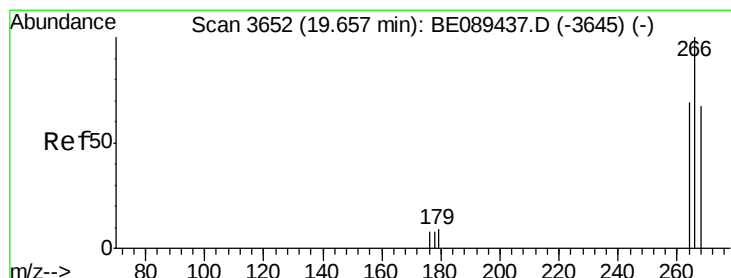
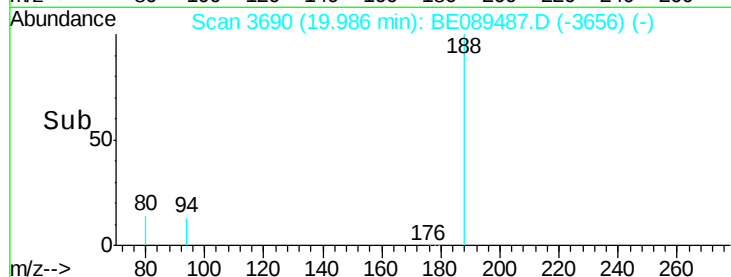
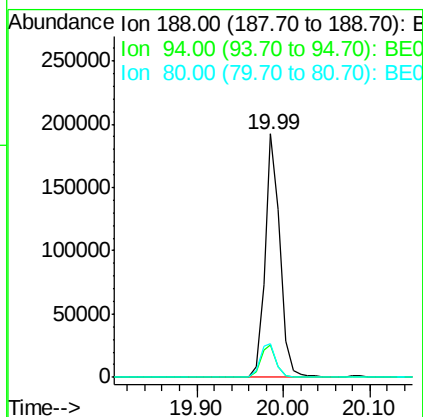
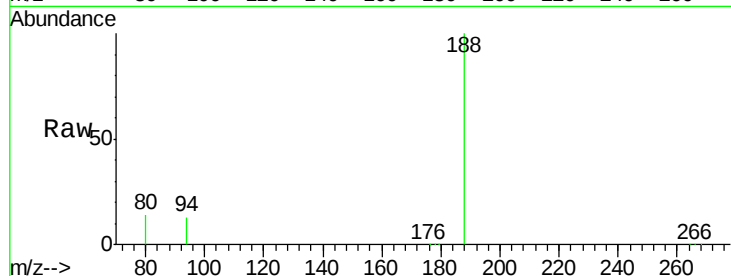




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089487.D
Acq: 1 Feb 2015 5:47

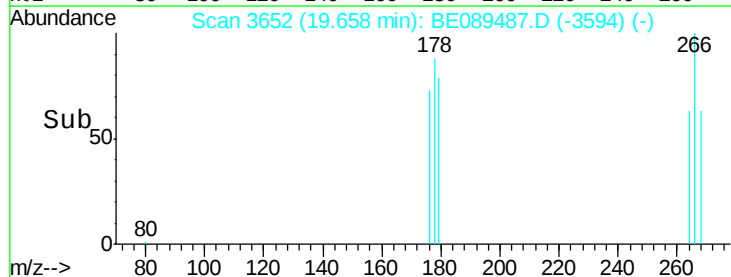
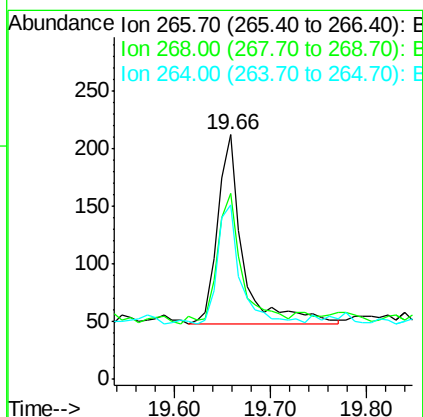
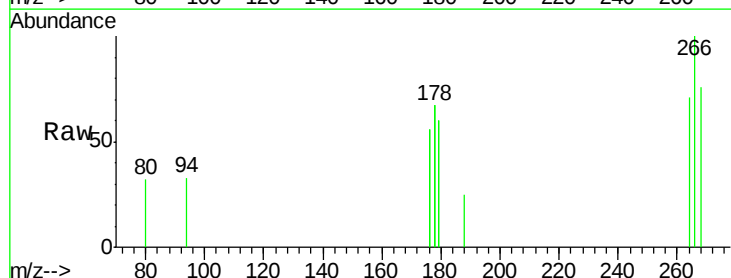
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 231764
Ion Ratio Lower Upper
188 100
94 13.2 9.4 14.0
80 13.6 9.3 13.9



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089487.D
Acq: 1 Feb 2015 5:47

Tgt Ion:266 Resp: 295
Ion Ratio Lower Upper
266 100
268 75.9 54.2 81.4
264 71.2 56.2 84.2





#13

Phenanthrene

Concen: 0.17 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

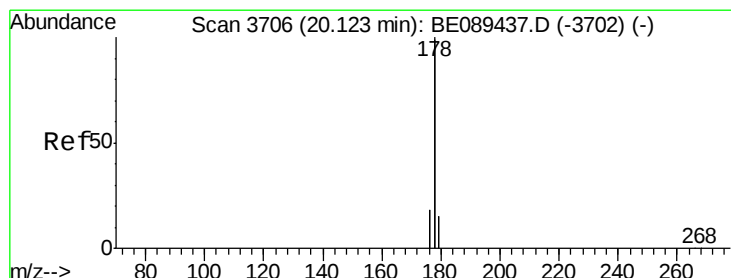
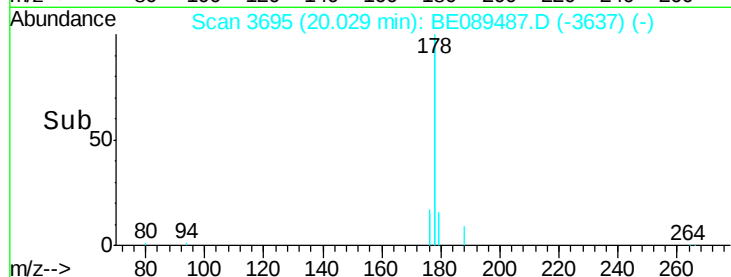
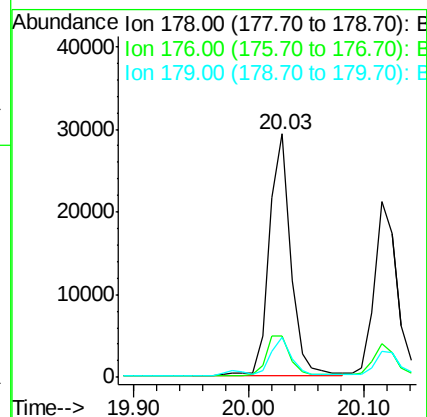
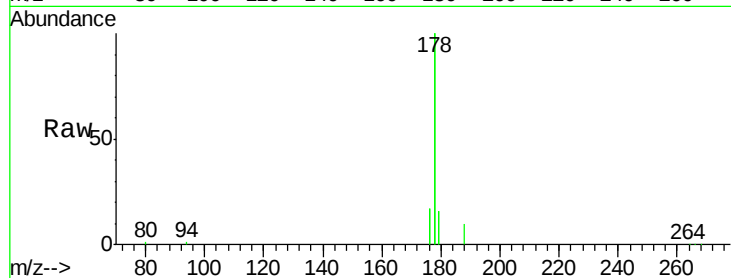
Tgt Ion:178 Resp: 37705

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

179 14.7 12.3 18.5



#14

Anthracene

Concen: 0.15 ng

RT: 20.11 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

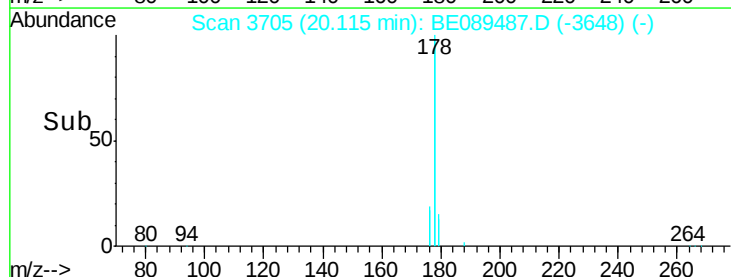
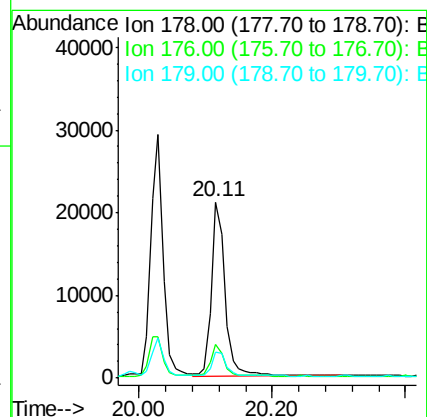
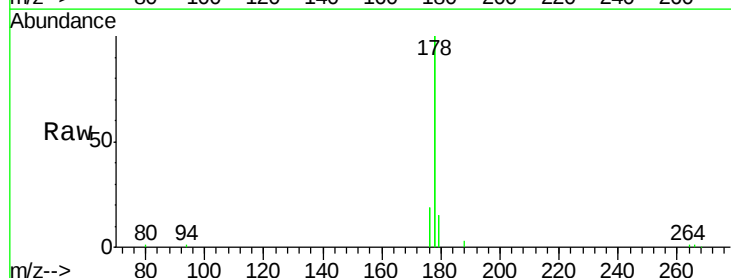
Tgt Ion:178 Resp: 30200

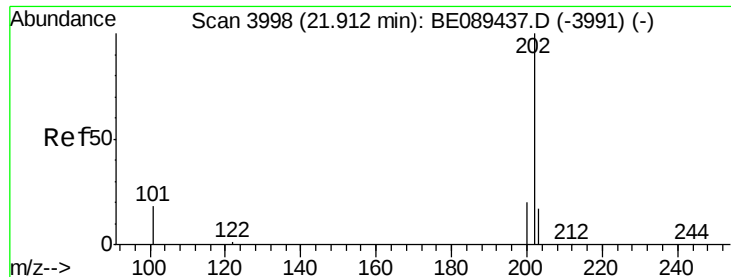
Ion Ratio Lower Upper

178 100

176 16.3 14.6 22.0

179 13.9 12.2 18.2

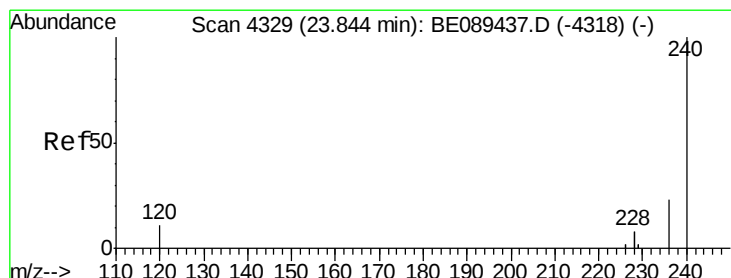
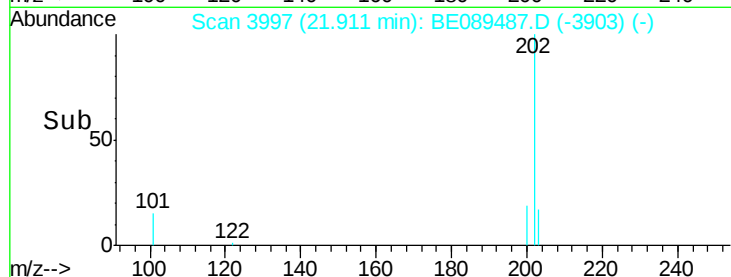
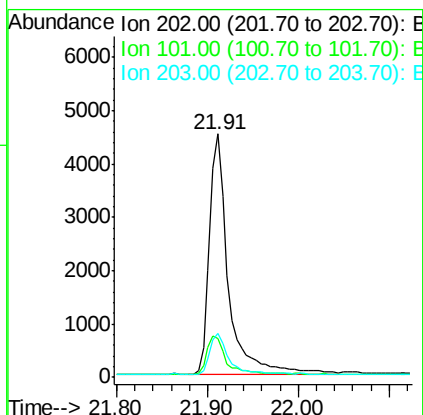
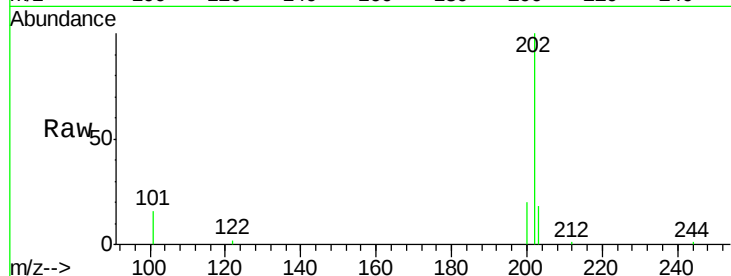




#15
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089487.D
 Acq: 1 Feb 2015 5:47

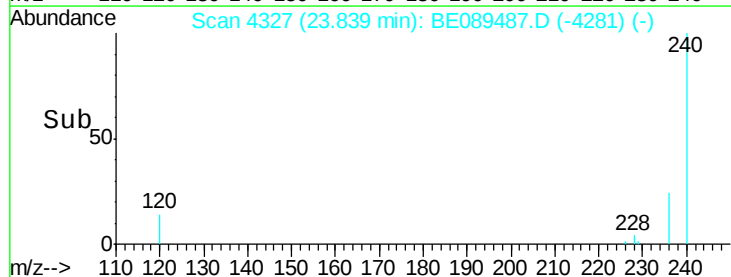
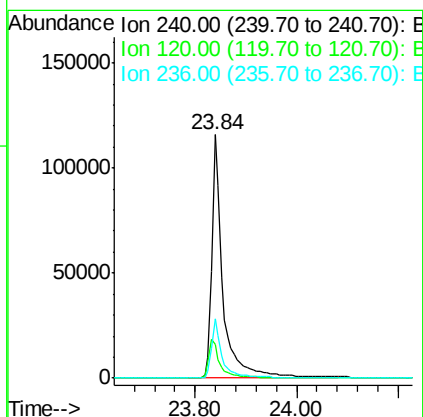
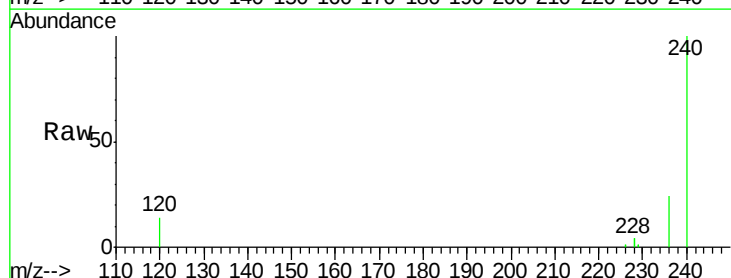
Instrument :
 BNA_E
 ClientSampleId :

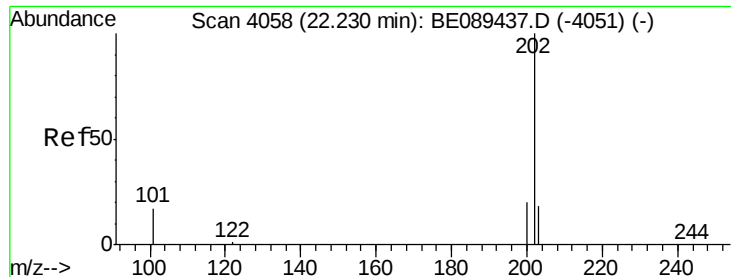
Tgt Ion: 202 Resp: 6621
 Ion Ratio Lower Upper
 202 100
 101 16.4 13.6 20.4
 203 16.7 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089487.D
 Acq: 1 Feb 2015 5:47

Tgt Ion: 240 Resp: 174941
 Ion Ratio Lower Upper
 240 100
 120 14.0 8.6 13.0#
 236 24.4 18.7 28.1





#17

Pyrene

Concen: 0.15 ng

RT: 22.22 min Scan# 4056

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

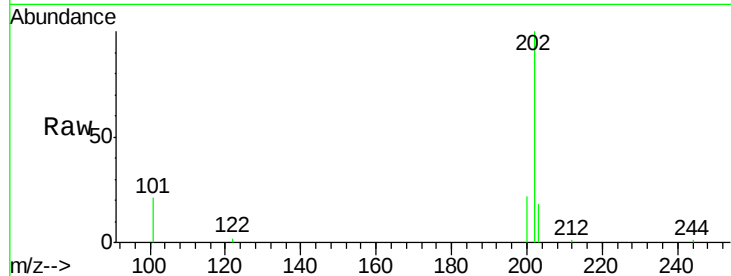
Tgt Ion:202 Resp: 7131

Ion Ratio Lower Upper

202 100

200 19.5 16.2 24.4

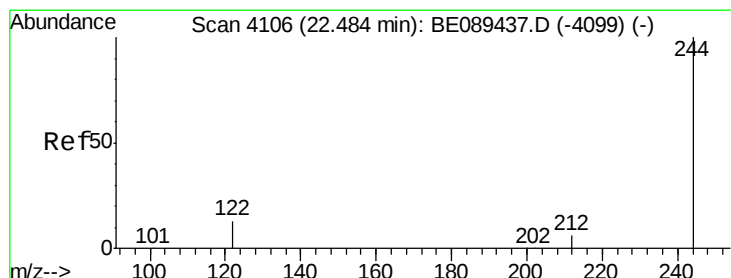
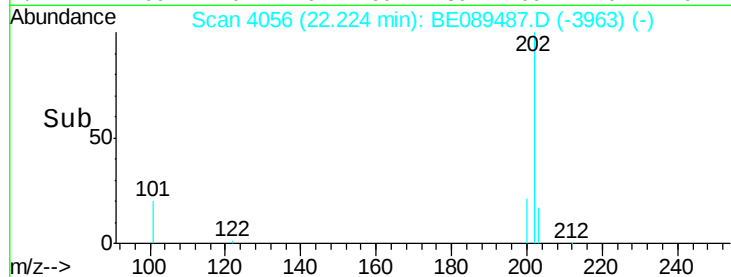
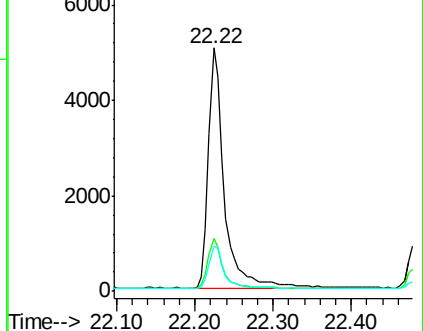
203 17.4 13.8 20.8



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: 10.95 ng

RT: 22.48 min Scan# 4104

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

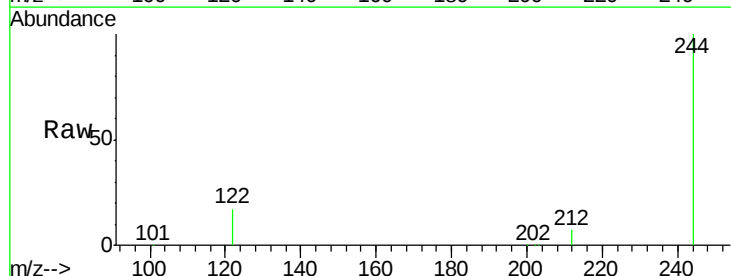
Tgt Ion:244 Resp: 286963

Ion Ratio Lower Upper

244 100

212 7.1 5.0 7.6

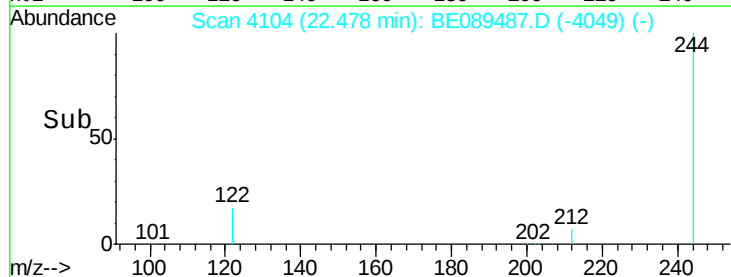
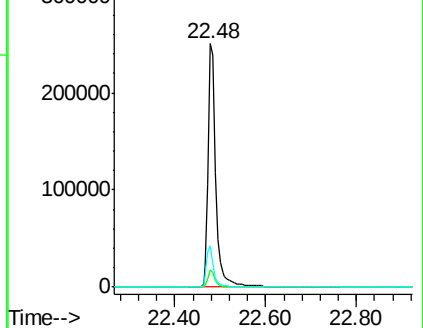
122 17.2 10.2 15.4#



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: 0.11 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

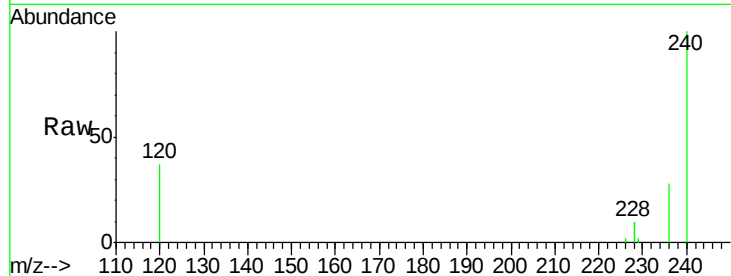
Tgt Ion:228 Resp: 15939

Ion Ratio Lower Upper

228 100

226 24.9 20.0 30.0

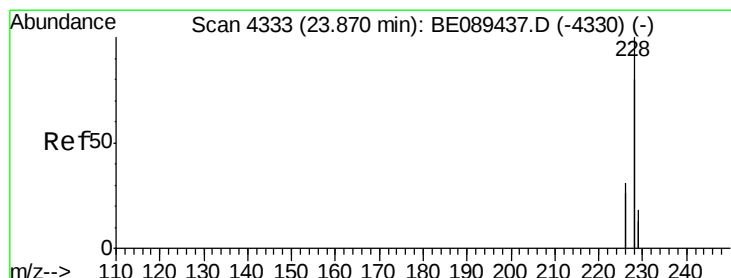
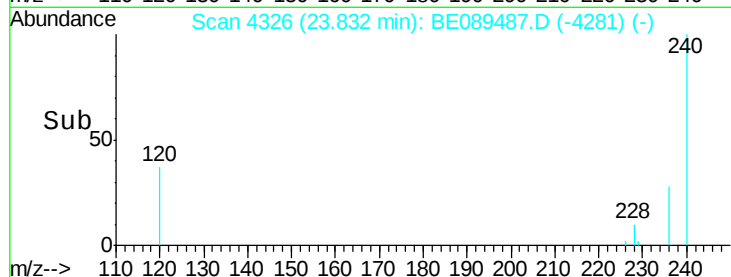
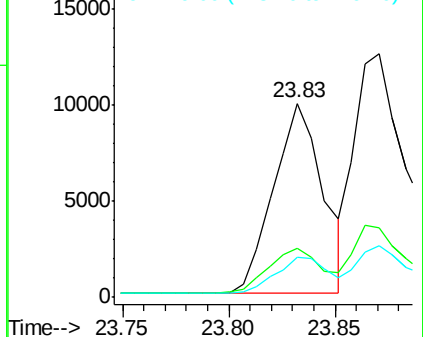
229 20.5 16.0 24.0



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# 4332

Delta R.T. 0.00 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

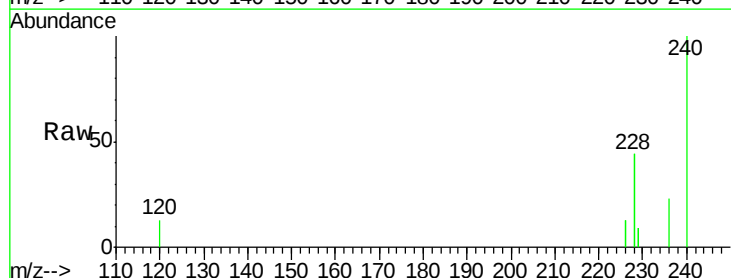
Tgt Ion:228 Resp: 29193

Ion Ratio Lower Upper

228 100

226 28.5 24.5 36.7

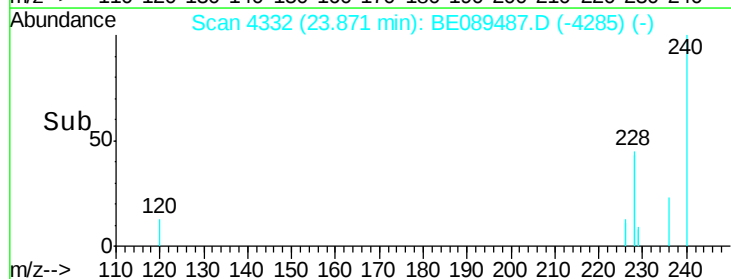
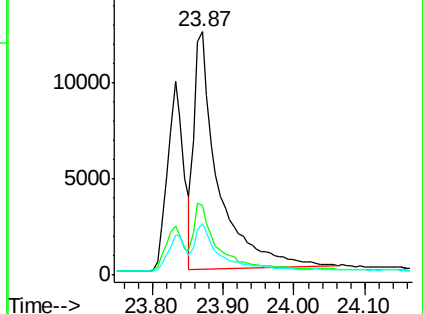
229 21.1 14.1 21.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.03 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

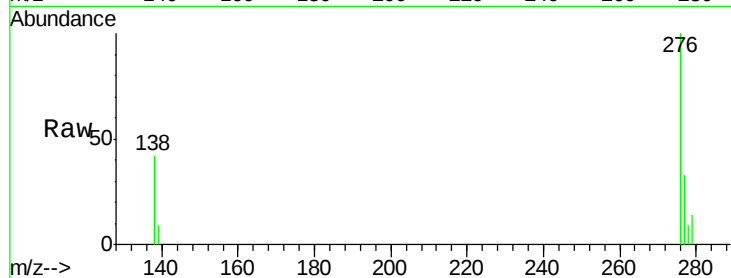
Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :



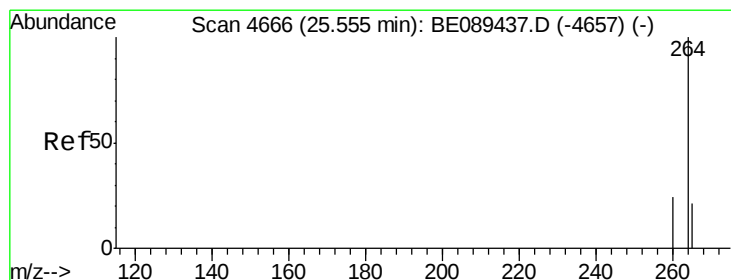
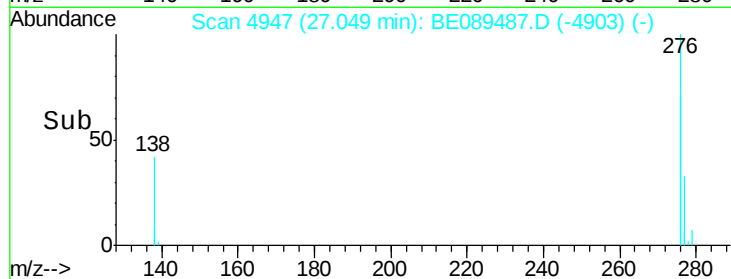
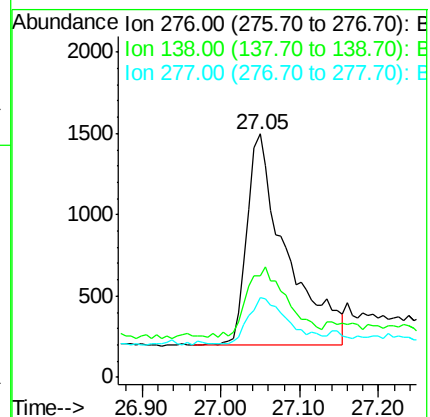
Tgt Ion:276 Resp: 4454

Ion Ratio Lower Upper

276 100

138 34.1 25.4 38.0

277 22.4 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4664

Delta R.T. -0.00 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

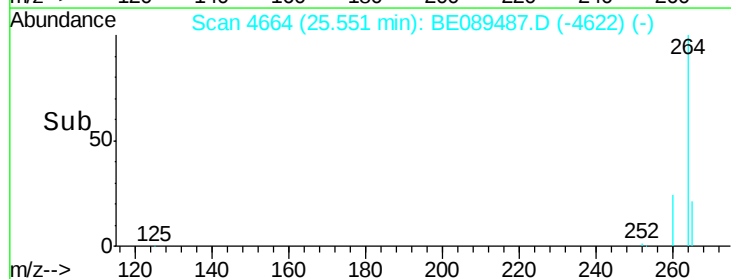
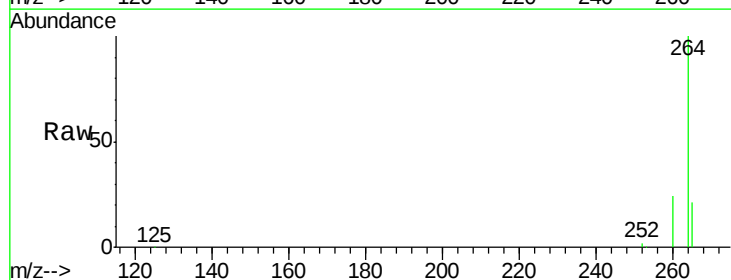
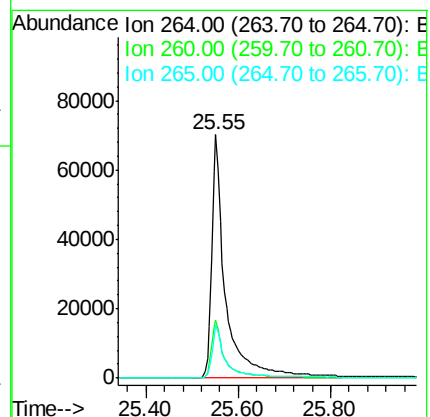
Tgt Ion:264 Resp: 146234

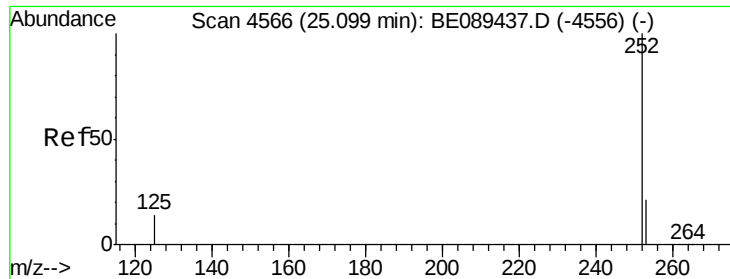
Ion Ratio Lower Upper

264 100

260 24.1 19.4 29.0

265 21.5 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 25.09 min Scan# 4563

Delta R.T. -0.01 min

Lab File: BE089487.D

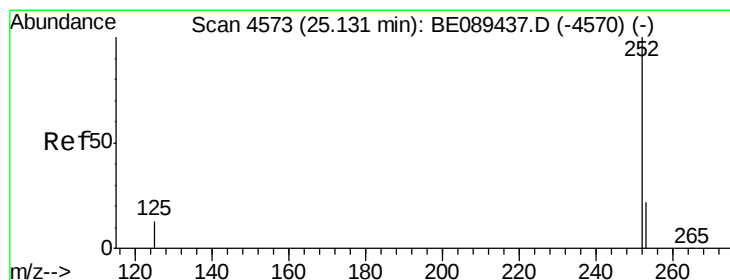
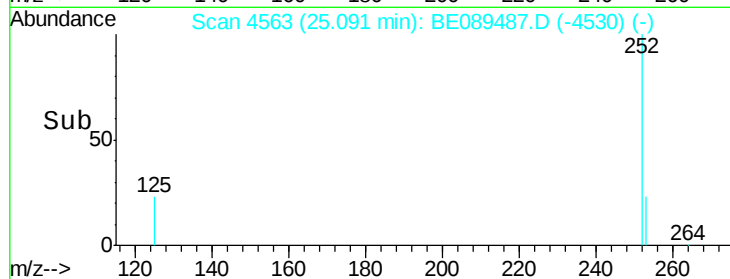
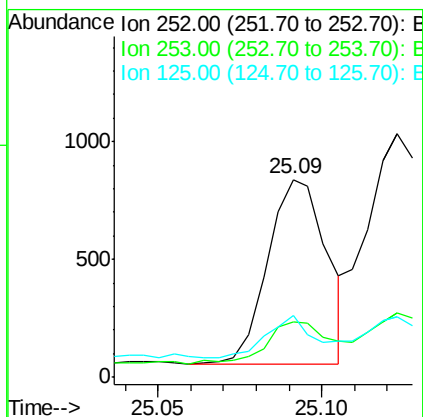
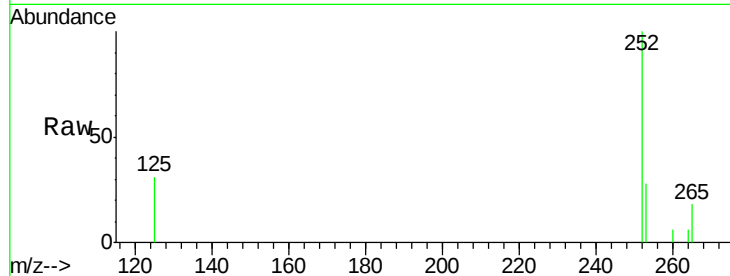
Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	985
Ion Ratio	Lower	Upper	
252	100		
253	28.1	17.0	25.6#
125	31.2	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

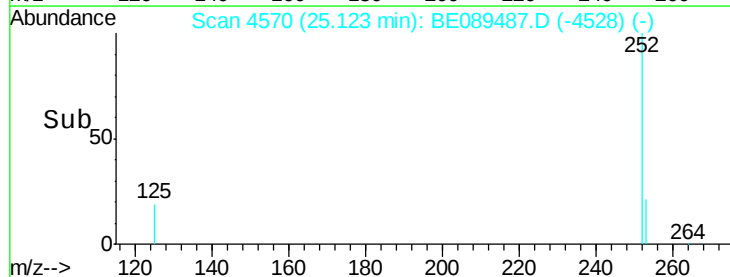
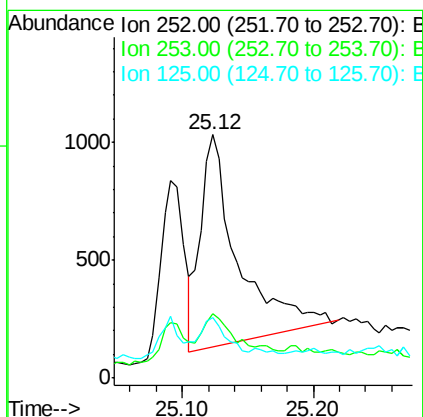
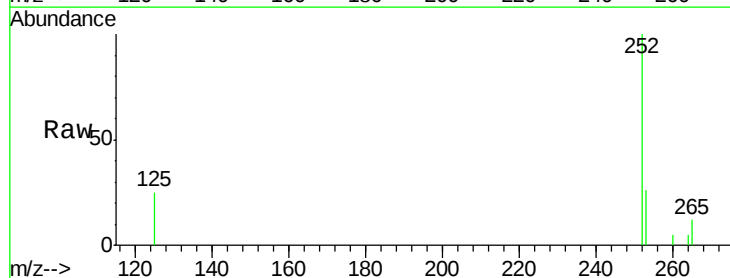
RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Tgt Ion:	252	Resp:	1795
Ion Ratio	Lower	Upper	
252	100		
253	26.3	17.4	26.2#
125	24.8	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.47 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :

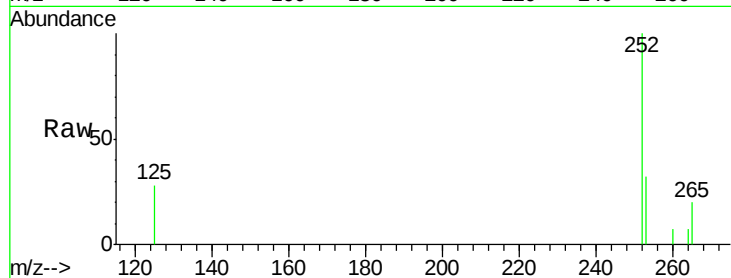
Tgt Ion: 252 Resp: 1248

Ion Ratio Lower Upper

252 100

253 31.8 17.3 25.9#

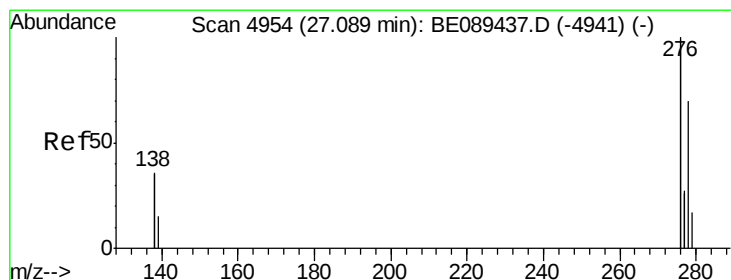
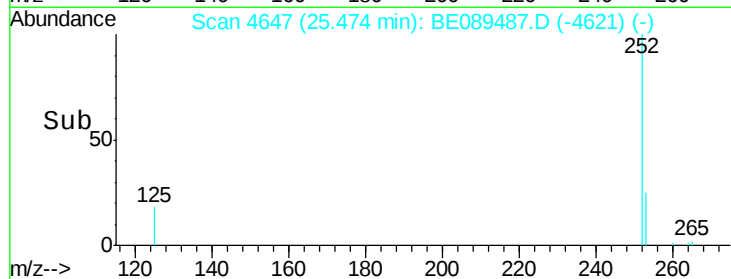
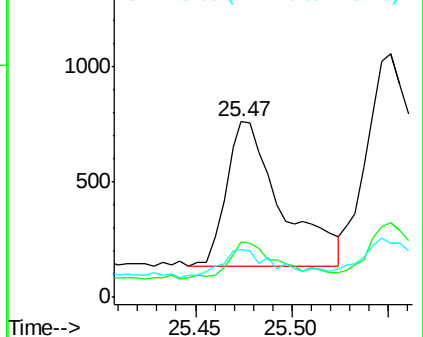
125 27.5 12.0 18.0#



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# 4951

Delta R.T. -0.01 min

Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

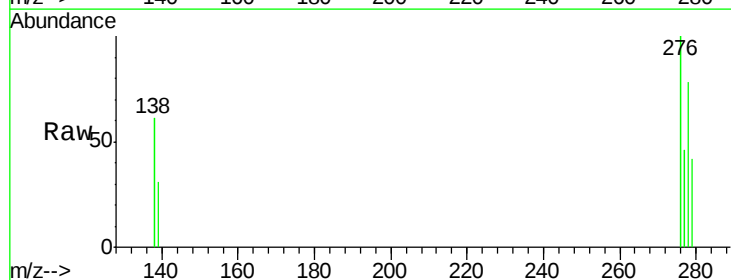
Tgt Ion: 278 Resp: 801

Ion Ratio Lower Upper

278 100

139 40.2 17.0 25.4#

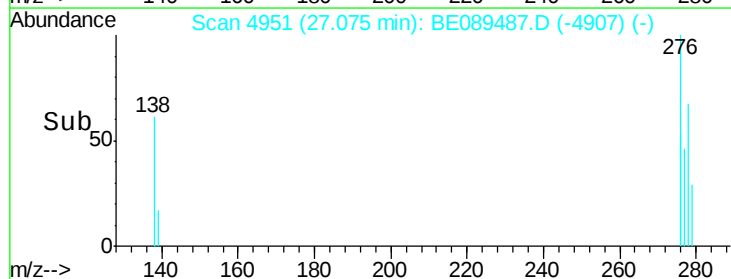
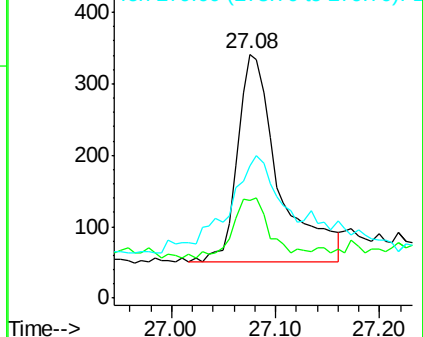
279 54.3 19.1 28.7#



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: 0.06 ng

RT: 27.49 min Scan# 5015

Delta R.T. -0.01 min

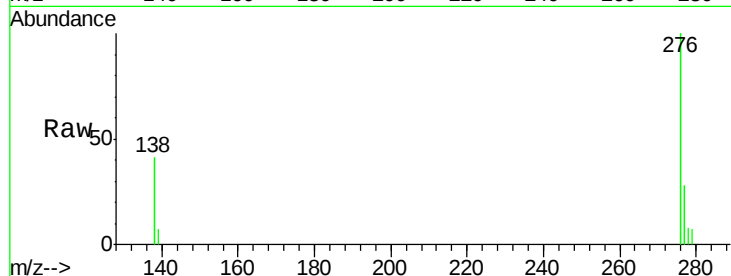
Lab File: BE089487.D

Acq: 1 Feb 2015 5:47

Instrument :

BNA_E

ClientSampleId :



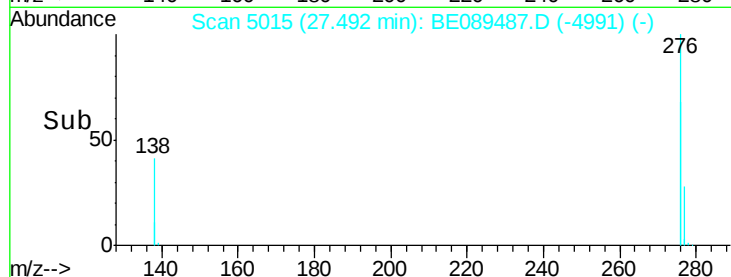
Tgt Ion: 276 Resp: 6692

Ion Ratio Lower Upper

276 100

277 27.7 18.4 27.6#

138 41.2 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

