

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089492.D
 Acq On : 1 Feb 2015 9:01
 Operator : TP/IZ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 04:12:45 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

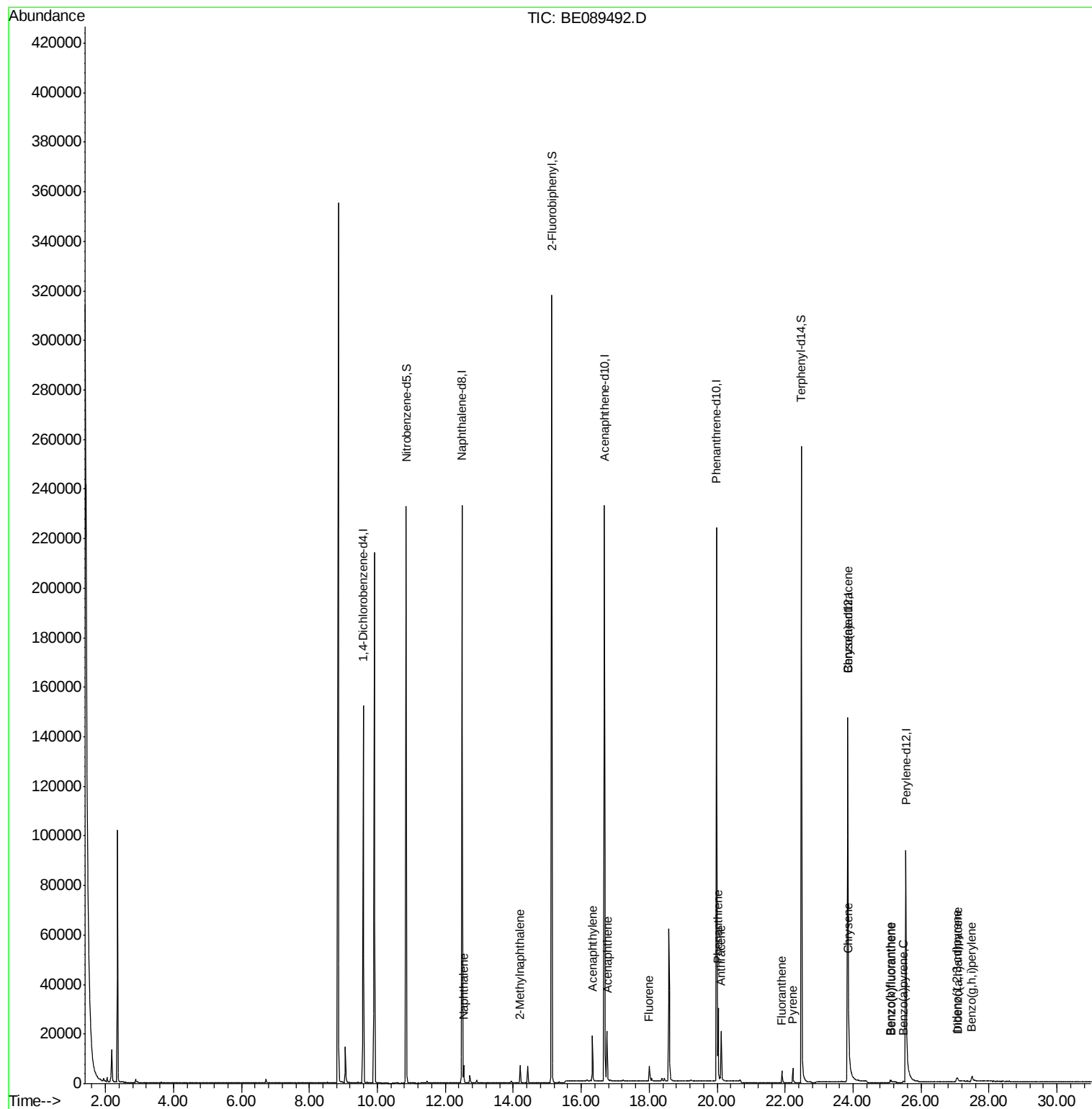
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	60857	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	254688	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	134838	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	210399	5.00	ng	0.00
16) Chrysene-d12	23.84	240	153267	5.00	ng	0.00
22) Perylene-d12	25.55	264	129983	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	155670	9.23	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	283058	7.97	ng	0.00
18) Terphenyl-d14	22.48	244	230166	10.03	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.54	128	7635	0.13	ng	99
5) 2-Methylnaphthalene	14.20	142	4654	0.13	ng	99
8) Acenaphthylene	16.33	152	23822	0.10	ng	99
9) Acenaphthene	16.76	154	4098	0.11	ng	90
10) Fluorene	18.00	166	4550	0.11	ng	98
12) Pentachlorophenol	19.65	266	125	Below Cal		94
13) Phenanthrene	20.03	178	27504	0.13	ng	99
14) Anthracene	20.11	178	21111	0.11	ng	100
15) Fluoranthene	21.91	202	4677	0.10	ng	98
17) Pyrene	22.22	202	5023	0.12	ng	99
19) Benzo(a)anthracene	23.83	228	11925	0.09	ng	96
20) Chrysene	23.87	228	20335	0.14	ng	# 94
21) Indeno(1,2,3-cd)pyrene	27.05	276	2900	0.02	ng	# 84
23) Benzo(b)fluoranthene	25.09	252	755	0.22	ng	# 78
24) Benzo(k)fluoranthene	25.12	252	1547	0.05	ng	# 85
25) Benzo(a)pyrene	25.47	252	929	0.16	ng	# 74
26) Dibenzo(a,h)anthracene	27.08	278	523	0.15	ng	# 58
27) Benzo(g,h,i)perylene	27.50	276	4803	0.05	ng	# 77

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

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
Data File : BE089492.D
Acq On : 1 Feb 2015 9:01
Operator : TP/IZ
Sample : MDL-07-S
Misc : MDL-SOIL-0.2/0.4
ALS Vial : 54 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :

Quant Time: Feb 02 04:12:45 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

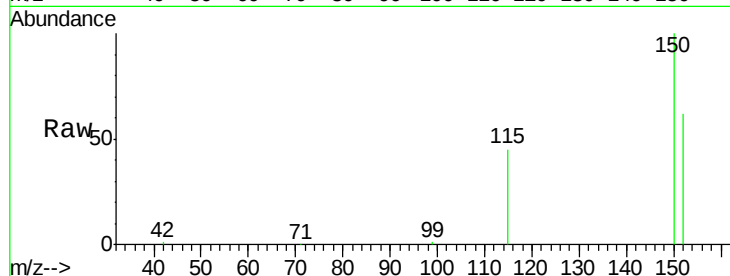
Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :



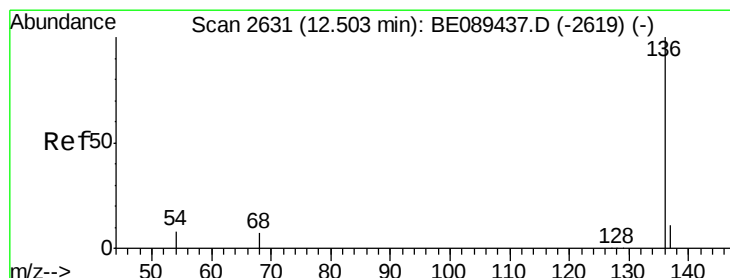
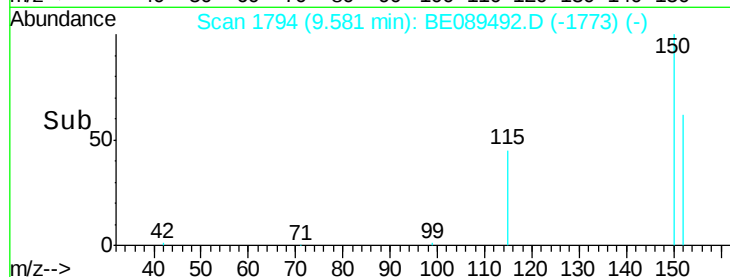
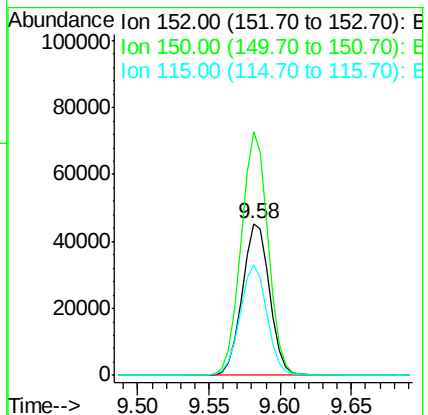
Tgt Ion:152 Resp: 60857

Ion Ratio Lower Upper

152 100

150 160.7 127.2 190.8

115 72.8 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: BE089492.D

Acq: 1 Feb 2015 9:01

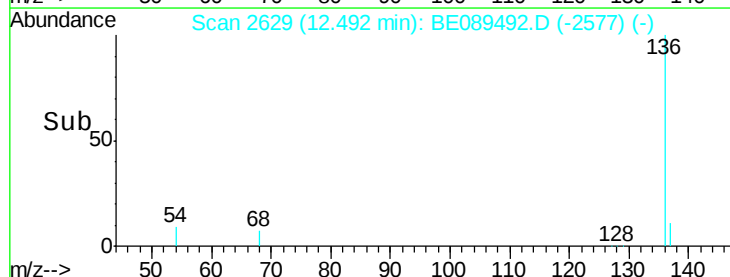
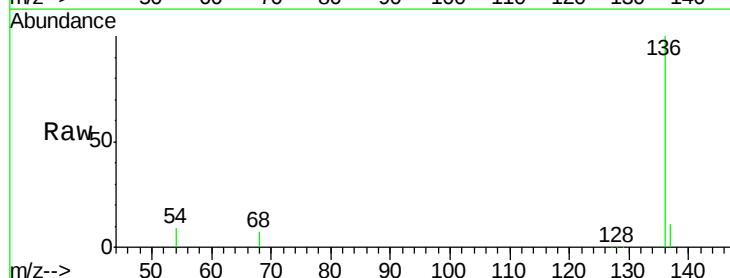
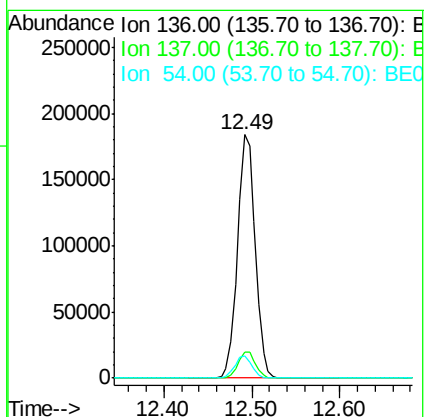
Tgt Ion:136 Resp: 254688

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 9.2 6.6 10.0





#3

Nitrobenzene-d5

Concen: 9.23 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.01 min

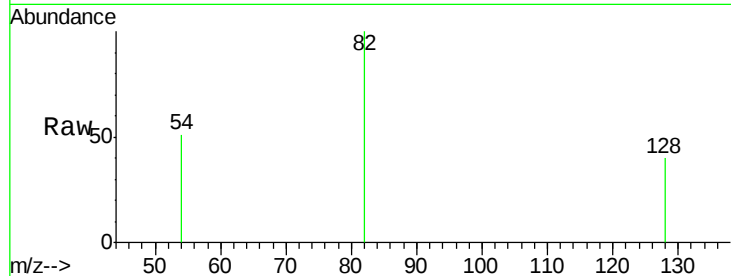
Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :



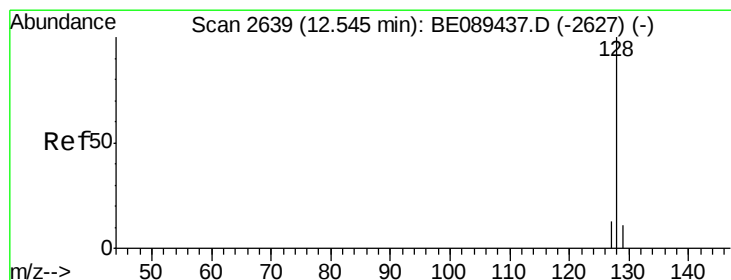
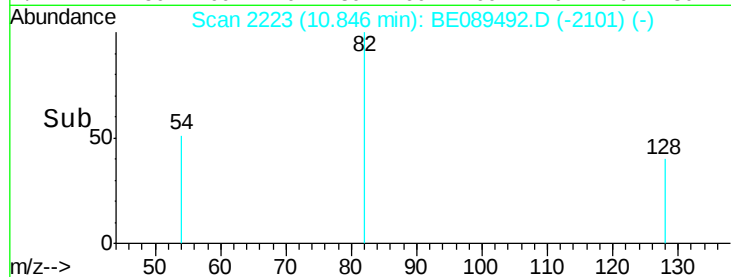
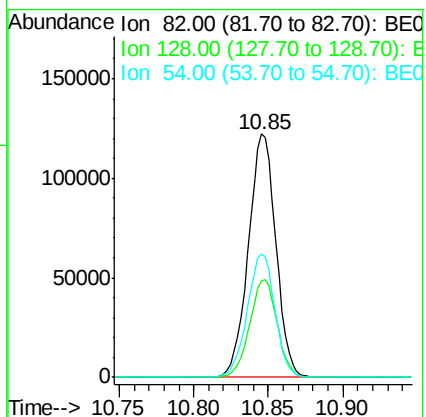
Tgt Ion: 82 Resp: 155670

Ion Ratio Lower Upper

82 100

128 39.8 31.2 46.8

54 50.8 41.9 62.9



#4

Naphthalene

Concen: 0.13 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

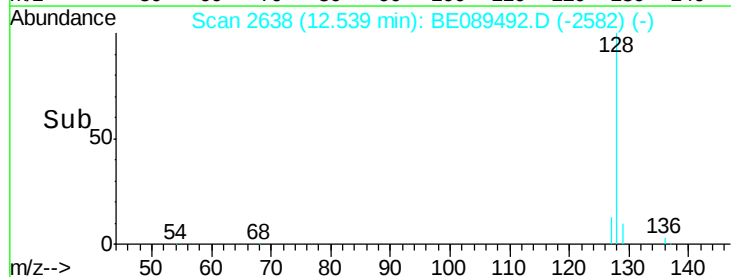
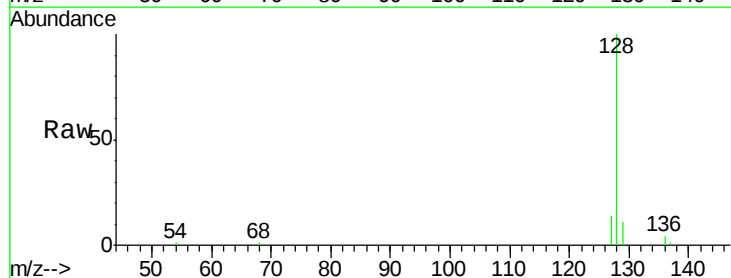
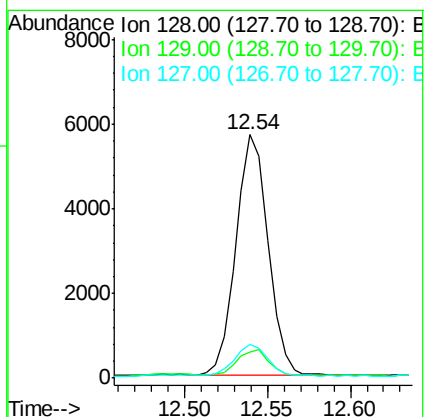
Tgt Ion: 128 Resp: 7635

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

127 13.7 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.13 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089492.D

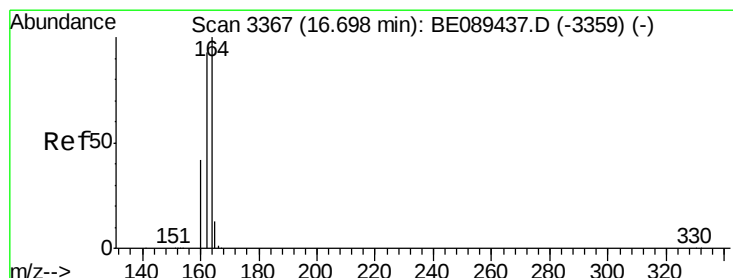
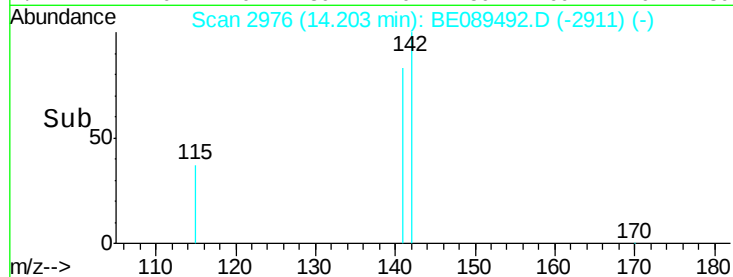
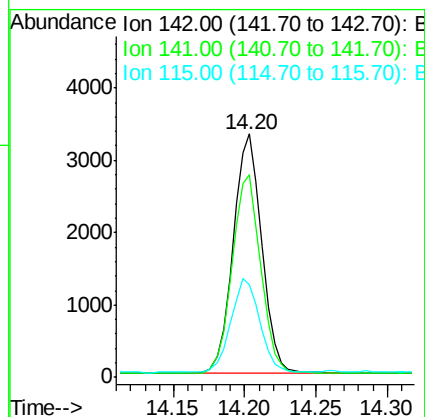
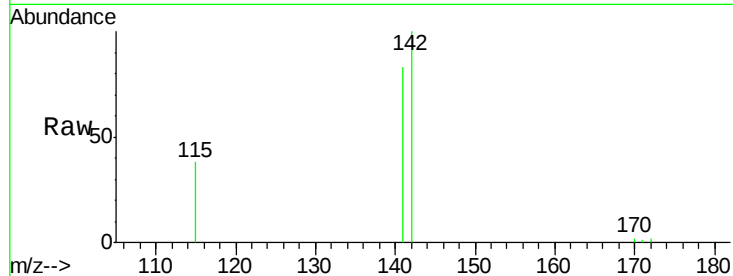
Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	4654
Ion	Ratio	Lower	Upper
142	100		
141	83.1	66.1	99.1
115	38.2	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

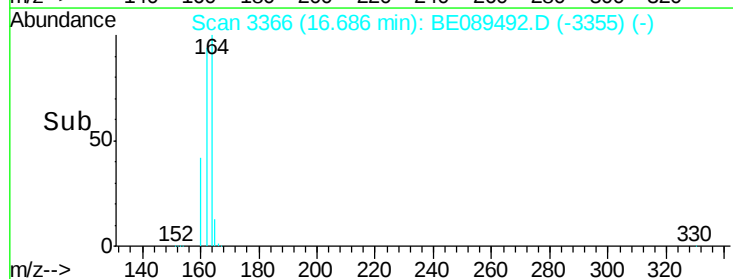
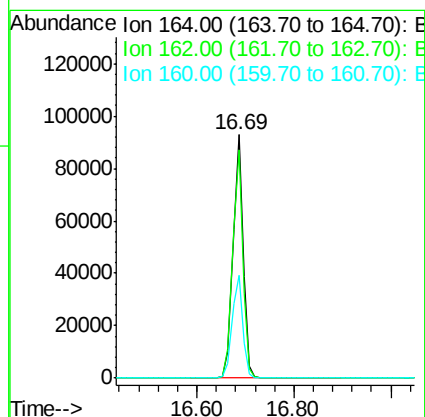
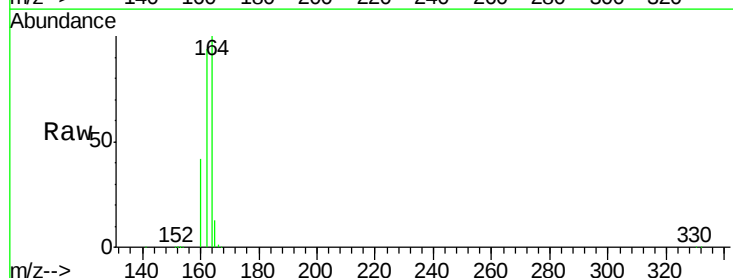
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Tgt Ion:	164	Resp:	134838
Ion	Ratio	Lower	Upper
164	100		
162	93.6	74.7	112.1
160	42.4	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.97 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :

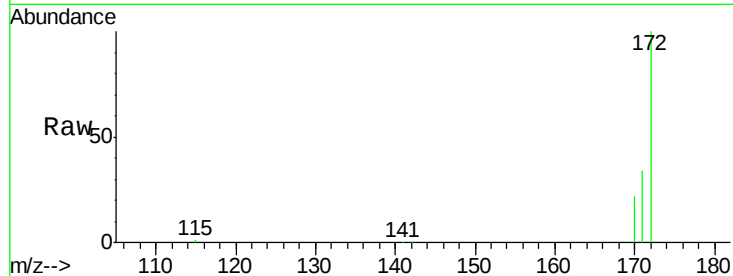
Tgt Ion:172 Resp: 283058

Ion Ratio Lower Upper

172 100

171 33.8 26.2 39.4

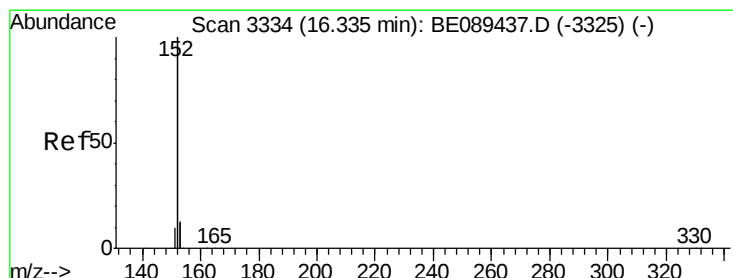
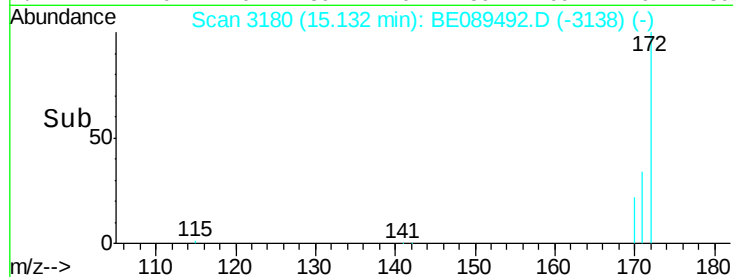
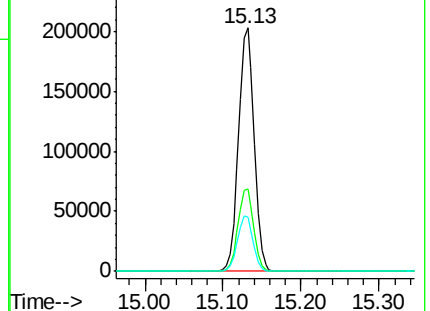
170 22.3 16.5 24.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.10 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

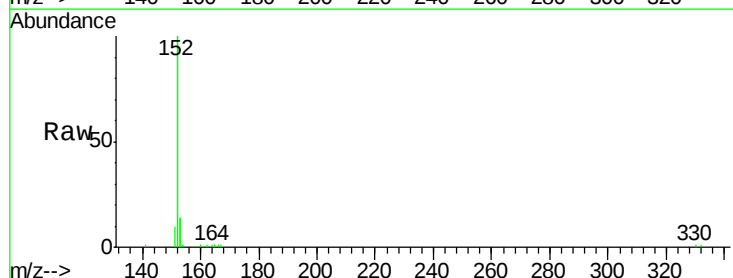
Tgt Ion:152 Resp: 23822

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

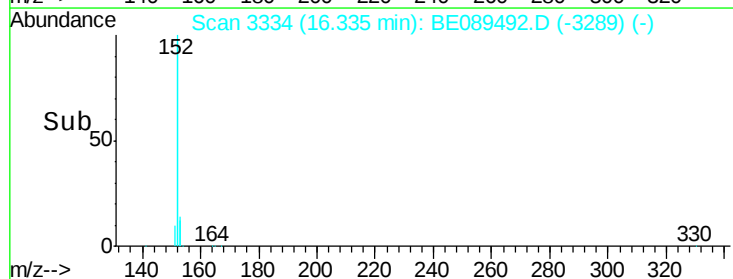
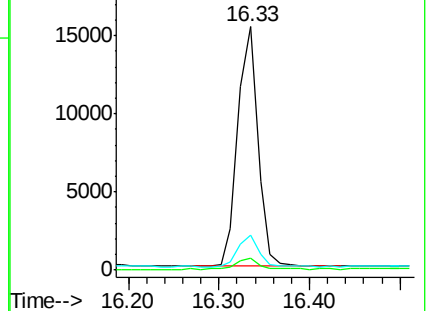
153 13.5 10.3 15.5



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: 0.11 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampled :

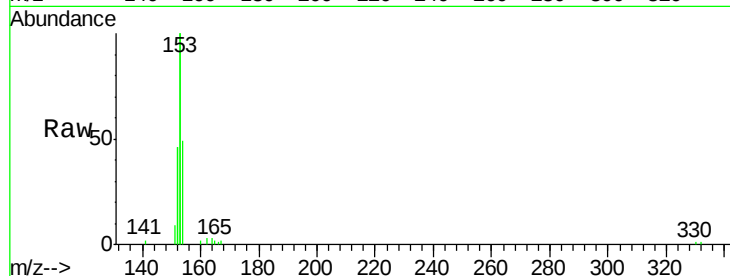
Tgt Ion:154 Resp: 4098

Ion Ratio Lower Upper

154 100

153 449.5 342.3 513.5

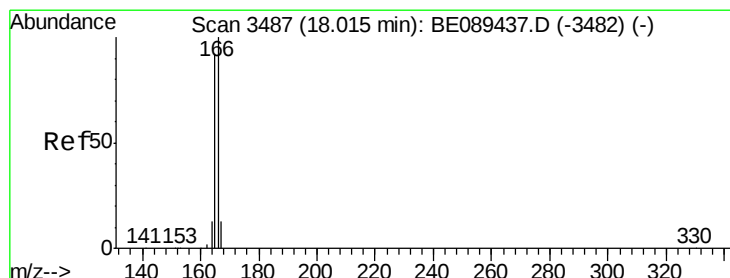
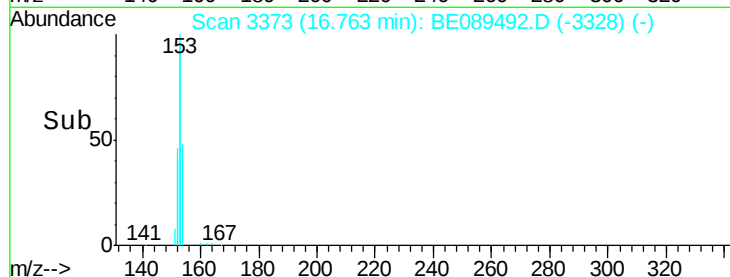
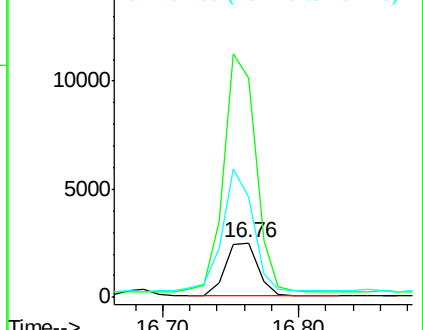
152 228.5 165.5 248.3



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: 0.11 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

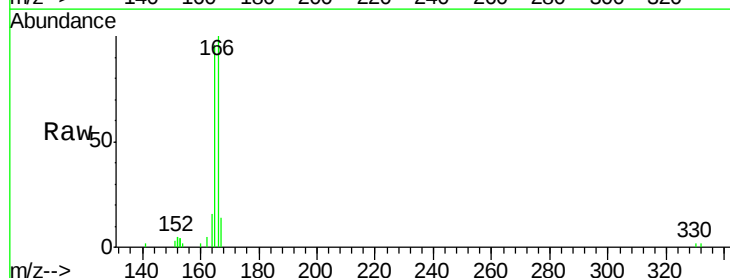
Tgt Ion:166 Resp: 4550

Ion Ratio Lower Upper

166 100

165 90.9 74.4 111.6

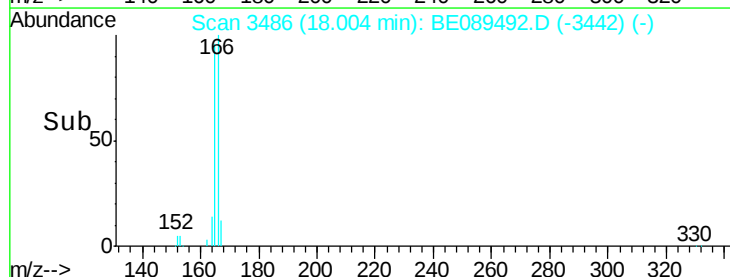
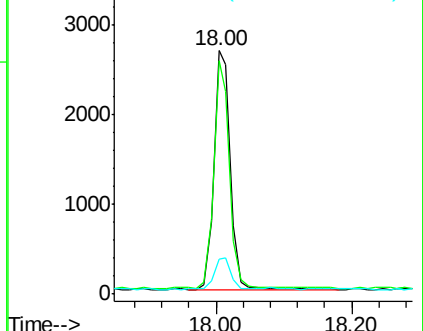
167 14.2 10.6 15.8



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

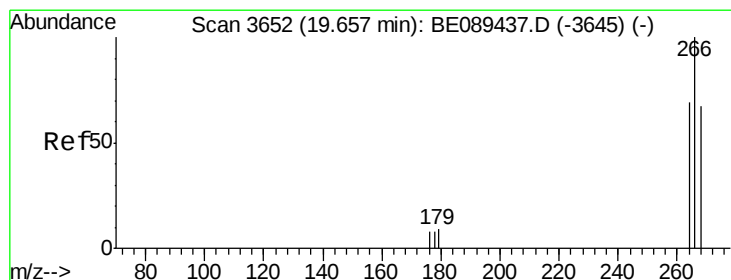
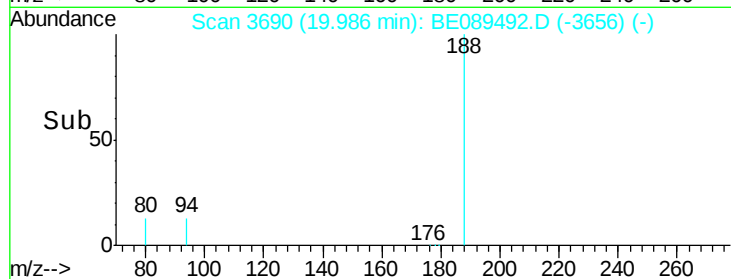
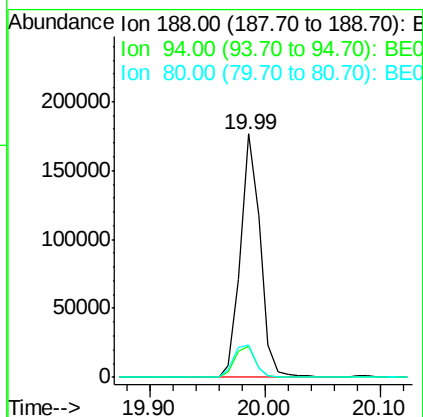
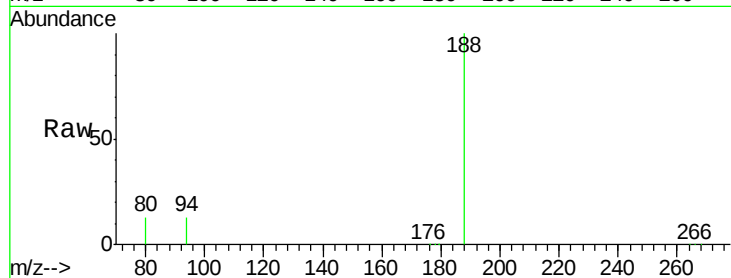




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089492.D
Acq: 1 Feb 2015 9:01

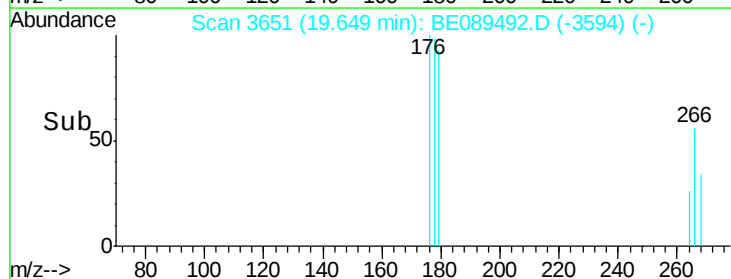
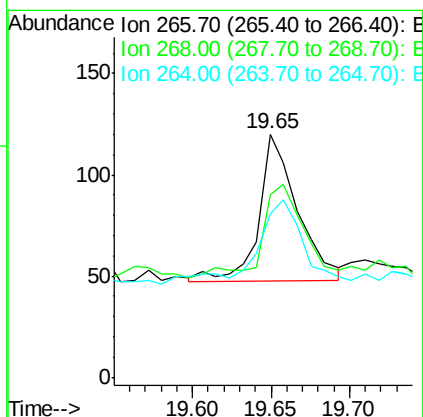
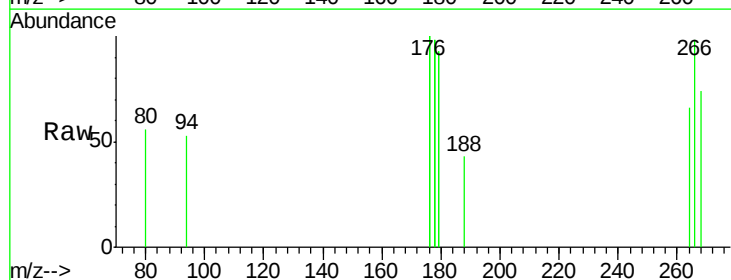
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 210399
Ion Ratio Lower Upper
188 100
94 12.8 9.4 14.0
80 13.3 9.3 13.9



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.65 min Scan# 3651
Delta R.T. -0.01 min
Lab File: BE089492.D
Acq: 1 Feb 2015 9:01

Tgt Ion:266 Resp: 125
Ion Ratio Lower Upper
266 100
268 75.0 54.2 81.4
264 67.5 56.2 84.2





#13

Phenanthrene

Concen: 0.13 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :

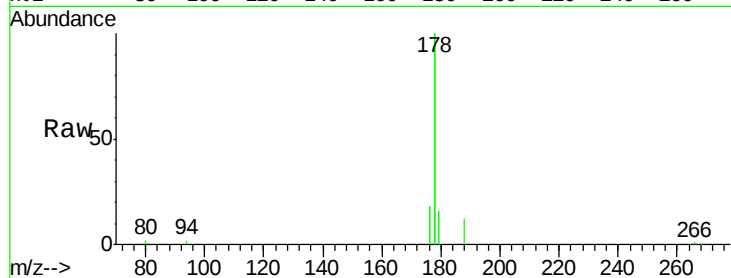
Tgt Ion:178 Resp: 27504

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

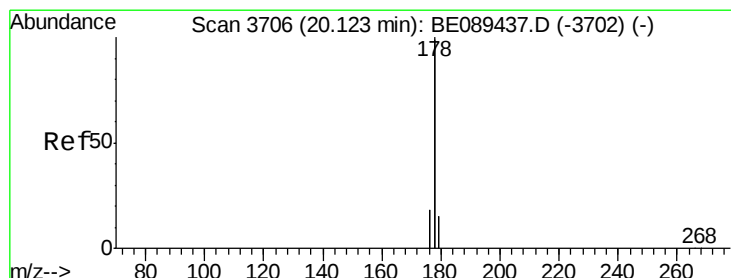
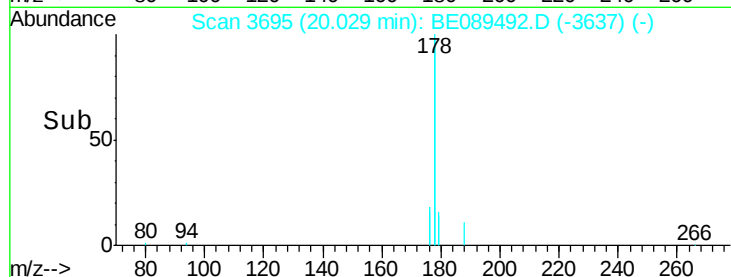
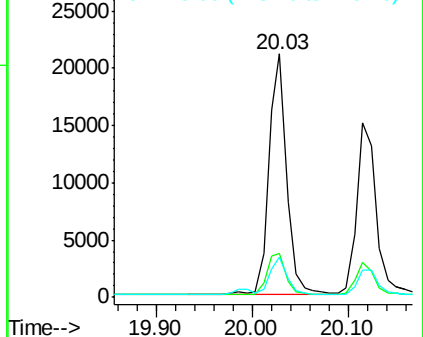
179 14.8 12.3 18.5



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: 0.11 ng

RT: 20.11 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

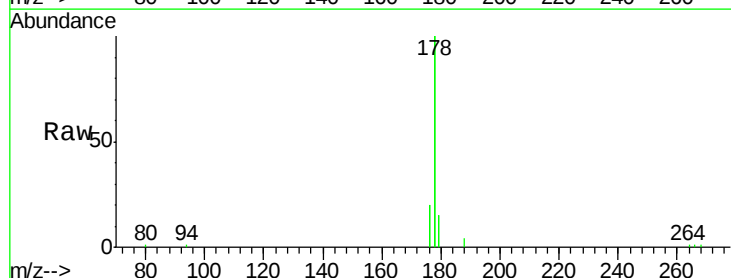
Tgt Ion:178 Resp: 21111

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

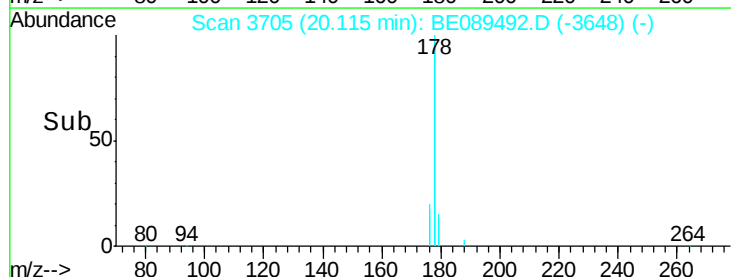
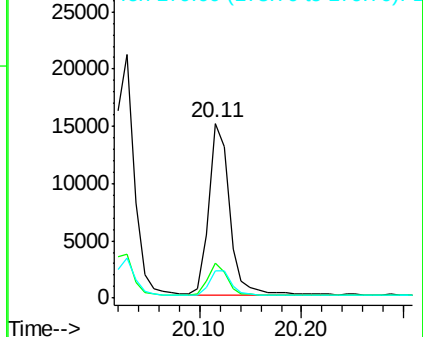
179 15.3 12.2 18.2

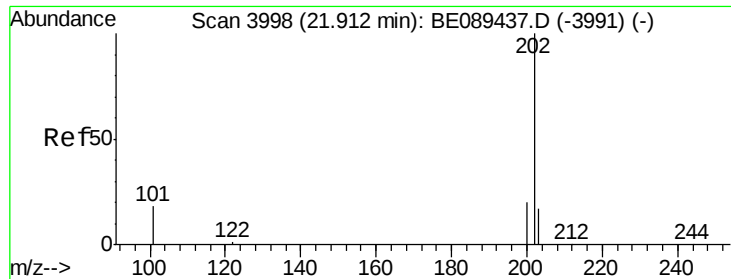


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

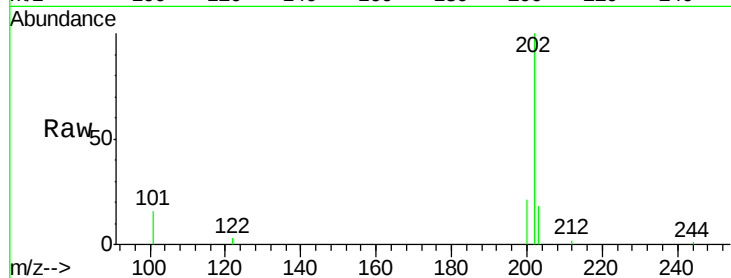




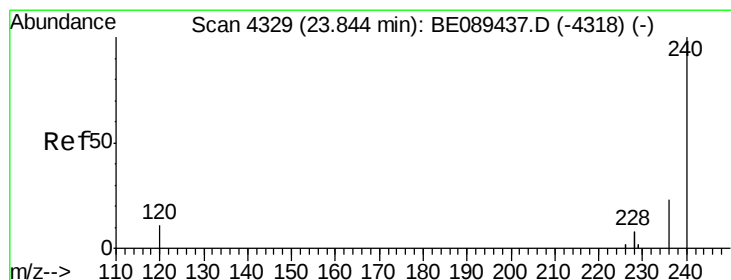
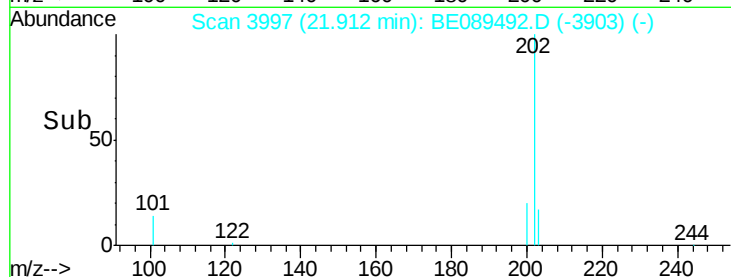
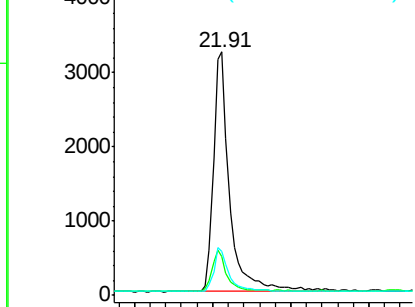
#15
 Fluoranthene
 Concen: 0.10 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089492.D
 Acq: 1 Feb 2015 9:01

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 4677
 Ion Ratio Lower Upper
 202 100
 101 16.1 13.6 20.4
 203 16.7 13.8 20.6

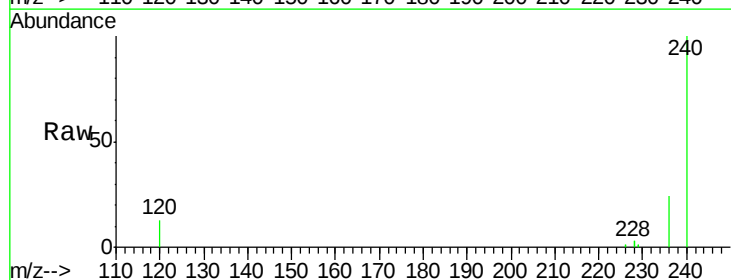


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

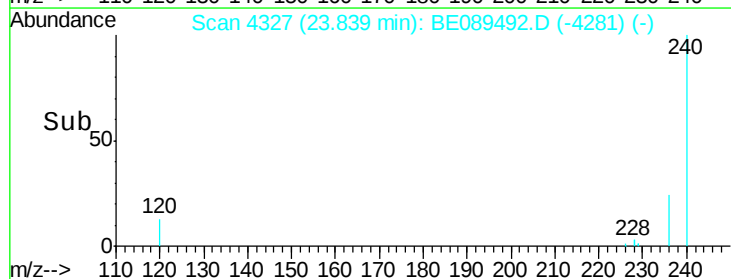
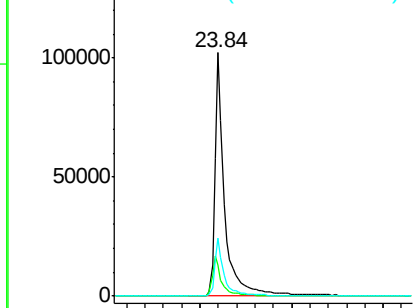


#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.00 min
 Lab File: BE089492.D
 Acq: 1 Feb 2015 9:01

Tgt Ion:240 Resp: 153267
 Ion Ratio Lower Upper
 240 100
 120 12.8 8.6 13.0
 236 23.7 18.7 28.1



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

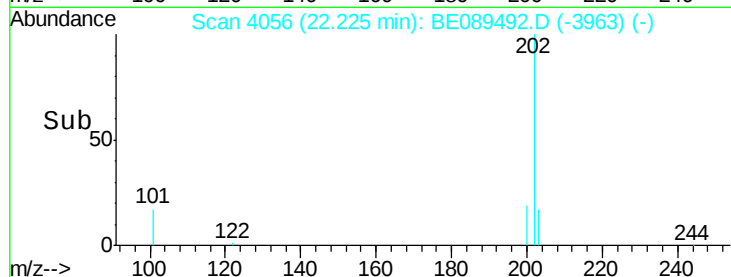
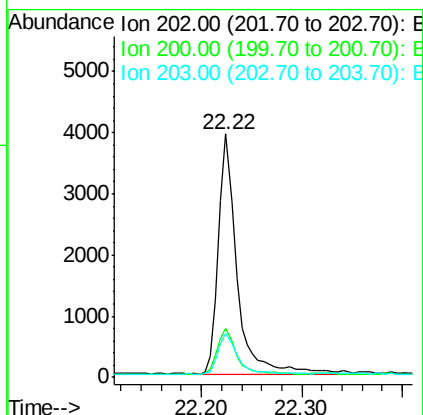
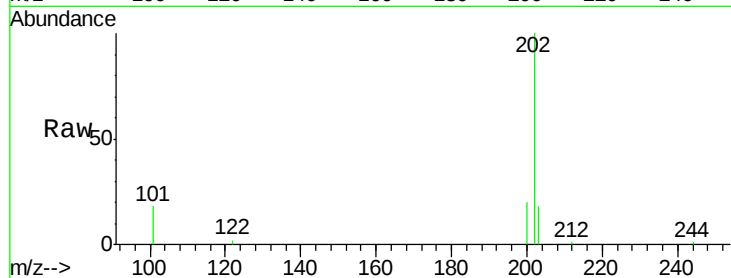




#17
 Pyrene
 Concen: 0.12 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089492.D
 Acq: 1 Feb 2015 9:01

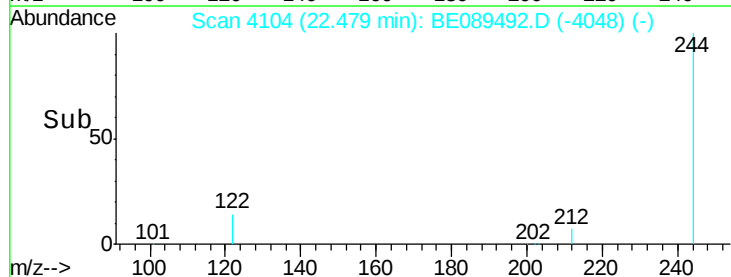
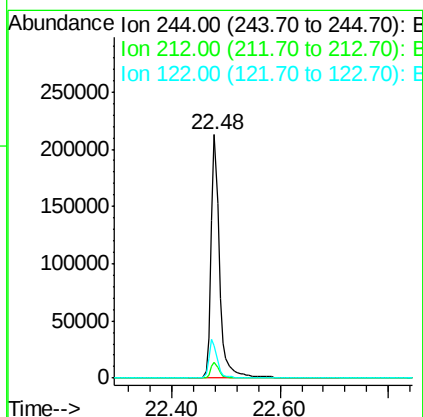
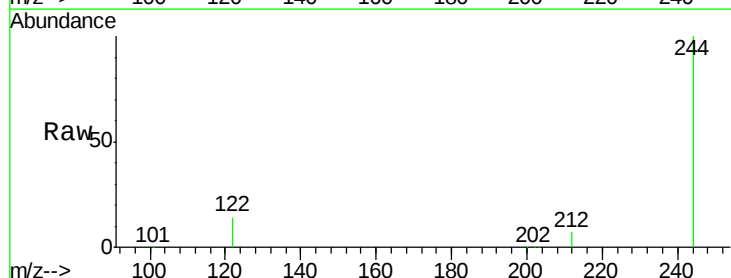
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 5023
 Ion Ratio Lower Upper
 202 100
 200 19.4 16.2 24.4
 203 17.1 13.8 20.8



#18
 Terphenyl-d14
 Concen: 10.03 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089492.D
 Acq: 1 Feb 2015 9:01

Tgt Ion: 244 Resp: 230166
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.0 7.6
 122 13.5 10.2 15.4





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :

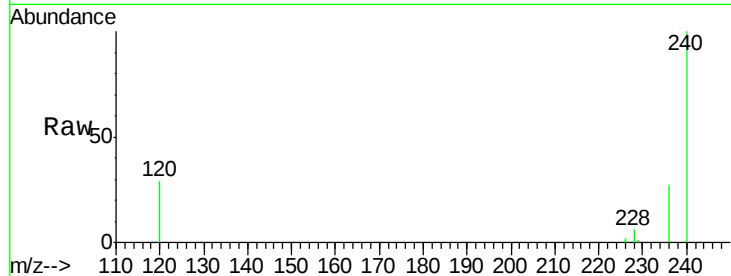
Tgt Ion:228 Resp: 11925

Ion Ratio Lower Upper

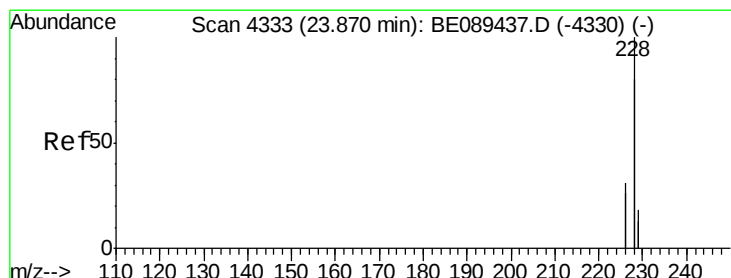
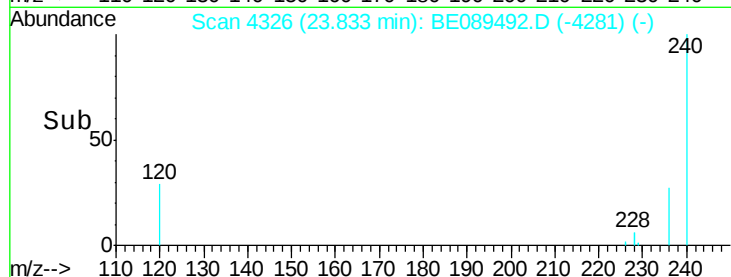
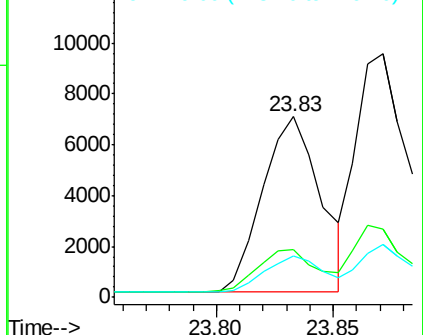
228 100

226 26.3 20.0 30.0

229 22.8 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: 0.14 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

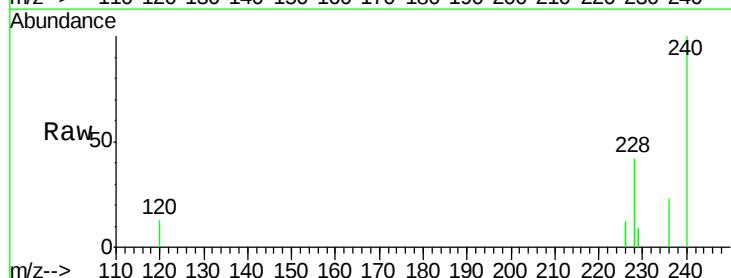
Tgt Ion:228 Resp: 20335

Ion Ratio Lower Upper

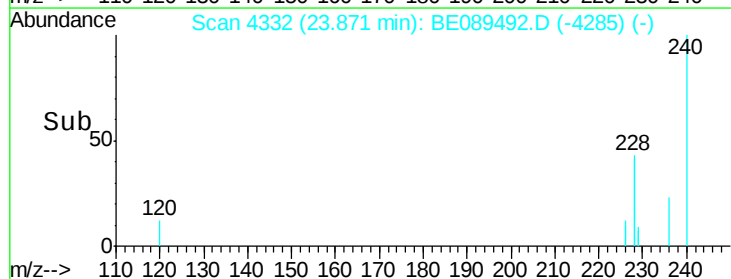
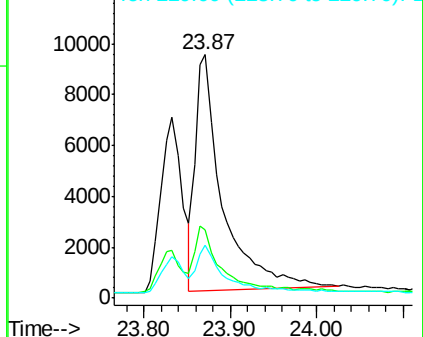
228 100

226 28.3 24.5 36.7

229 21.6 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: 0.02 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

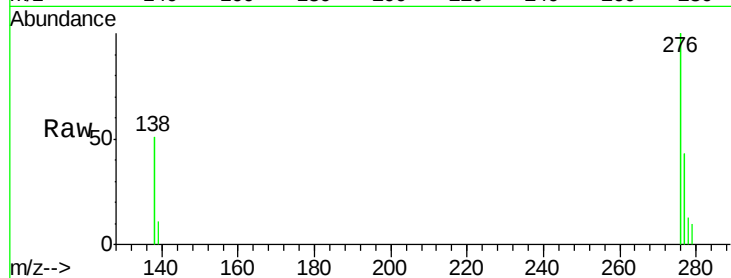
Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :



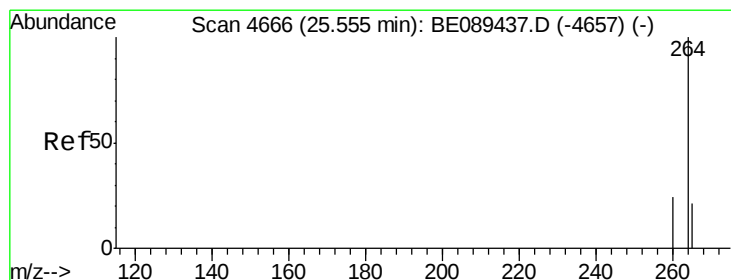
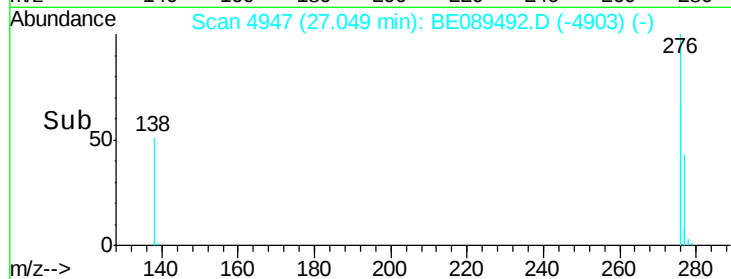
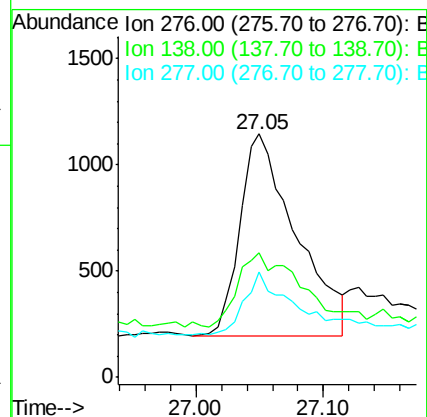
Tgt Ion: 276 Resp: 2900

Ion Ratio Lower Upper

276 100

138 43.2 25.4 38.0#

277 30.2 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: BE089492.D

Acq: 1 Feb 2015 9:01

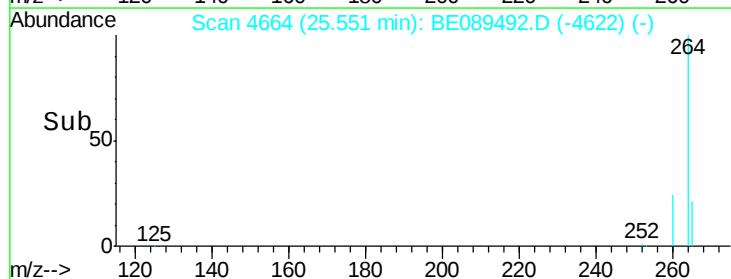
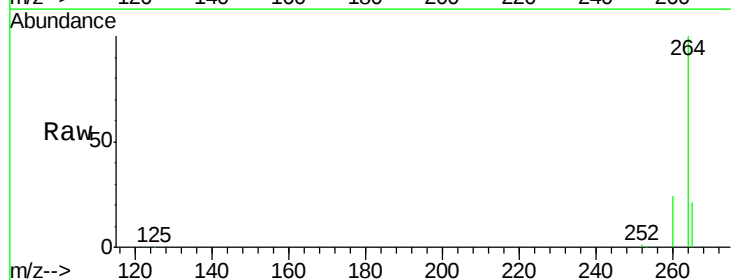
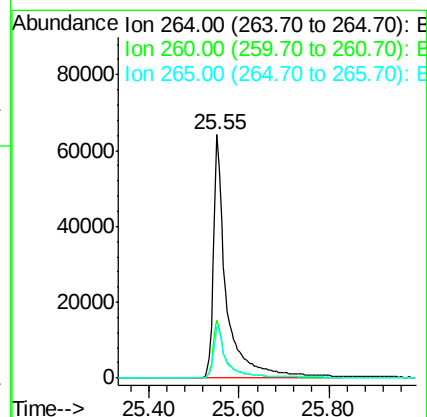
Tgt Ion: 264 Resp: 129983

Ion Ratio Lower Upper

264 100

260 23.6 19.4 29.0

265 21.4 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: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampled :

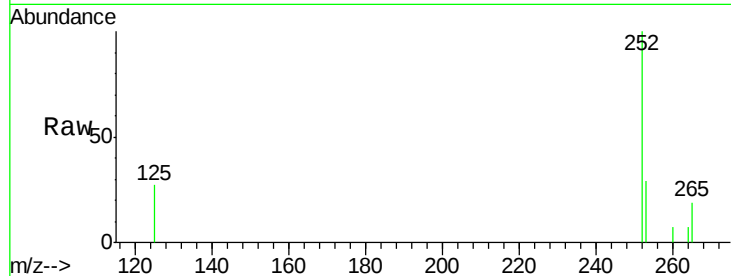
Tgt Ion:252 Resp: 755

Ion Ratio Lower Upper

252 100

253 28.6 17.0 25.6#

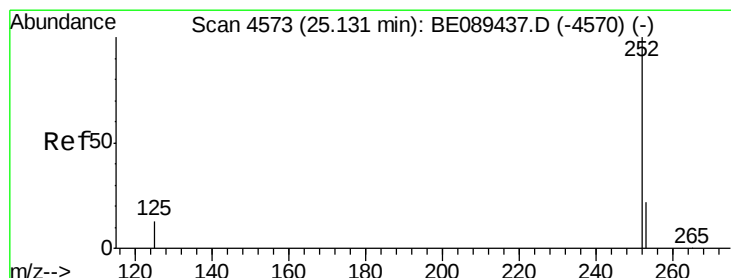
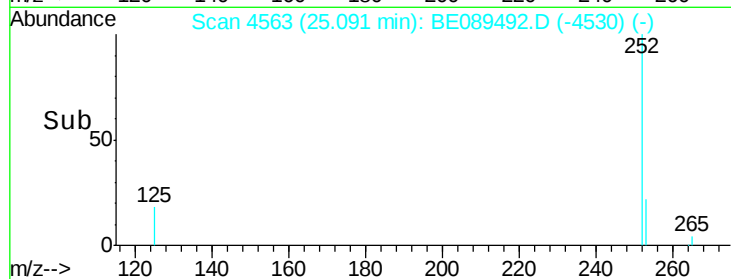
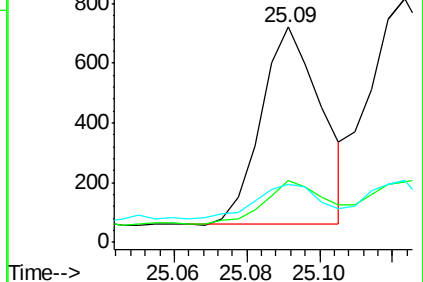
125 26.9 11.4 17.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

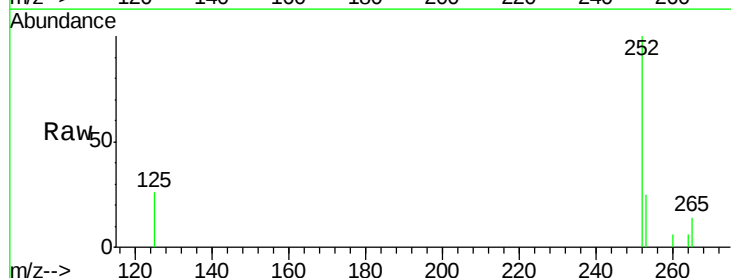
Tgt Ion:252 Resp: 1547

Ion Ratio Lower Upper

252 100

253 24.8 17.4 26.2

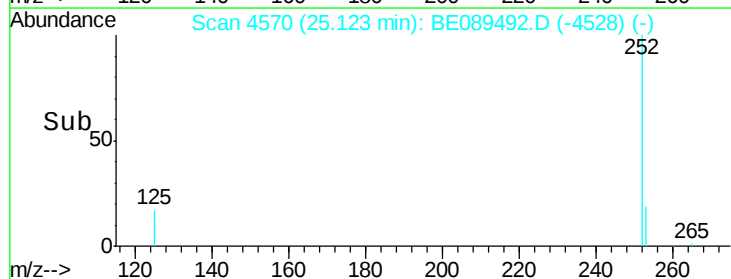
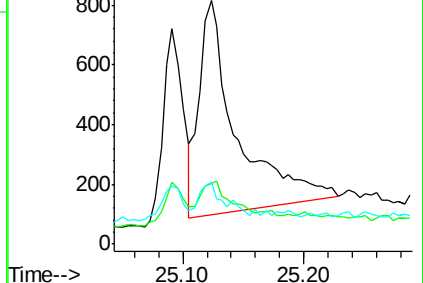
125 25.5 10.9 16.3#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.47 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :

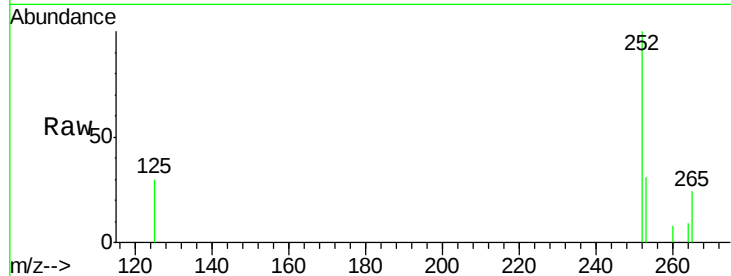
Tgt Ion: 252 Resp: 929

Ion Ratio Lower Upper

252 100

253 31.0 17.3 25.9#

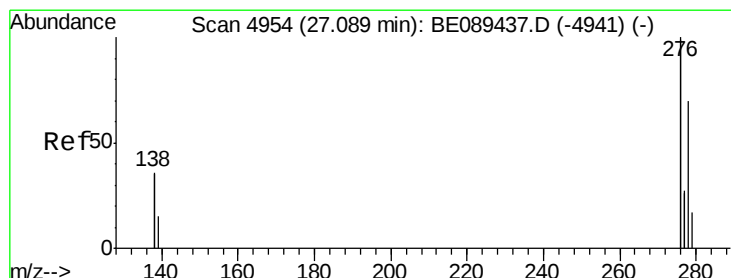
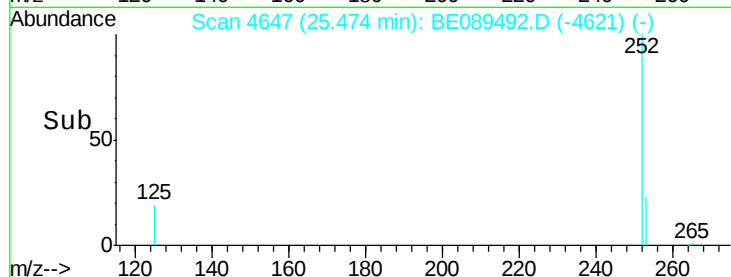
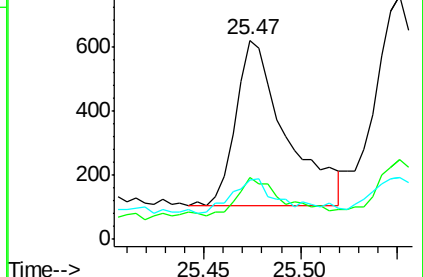
125 29.6 12.0 18.0#



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# 4952

Delta R.T. -0.01 min

Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

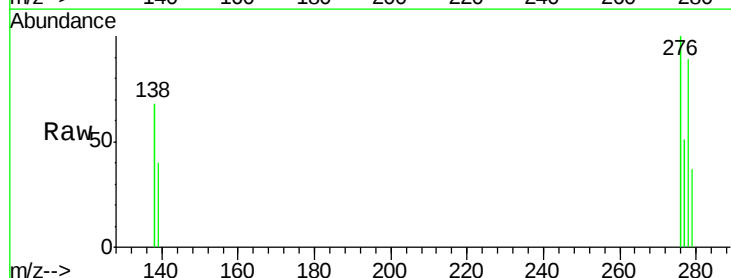
Tgt Ion: 278 Resp: 523

Ion Ratio Lower Upper

278 100

139 44.4 17.0 25.4#

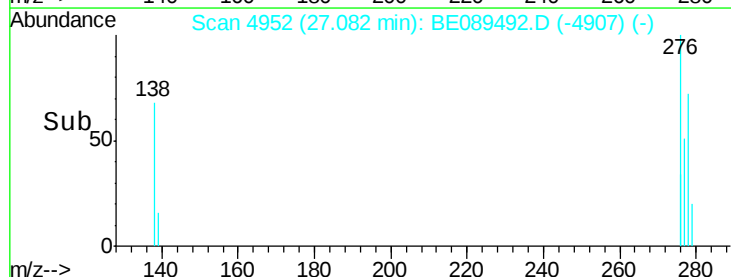
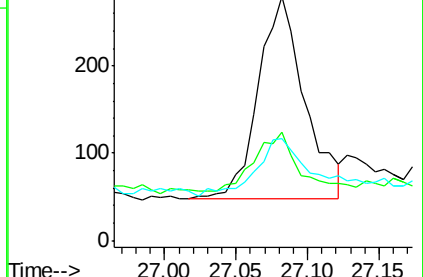
279 41.6 19.1 28.7#



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# 5016

Delta R.T. -0.01 min

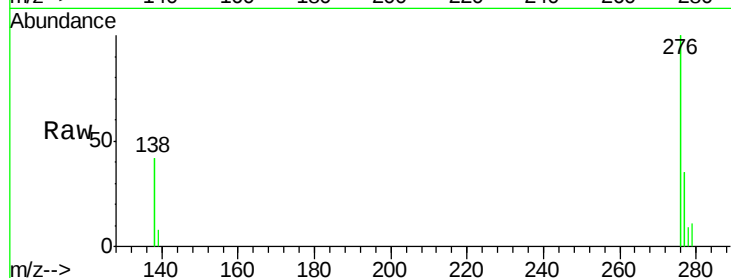
Lab File: BE089492.D

Acq: 1 Feb 2015 9:01

Instrument :

BNA_E

ClientSampleId :



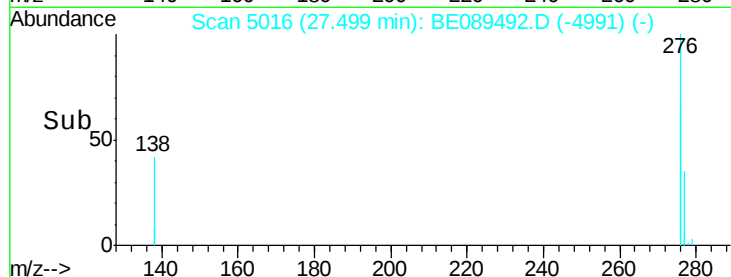
Tgt Ion: 276 Resp: 4803

Ion Ratio Lower Upper

276 100

277 34.6 18.4 27.6#

138 41.6 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

