

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089473.D
 Acq On : 31 Jan 2015 17:27
 Operator : TP/IZ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:54:03 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	9.59	152	56163	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	235143	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	122648	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	202896	5.00	ng	0.00
16) Chrysene-d12	23.84	240	150120	5.00	ng	0.00
22) Perylene-d12	25.55	264	118570	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	136214	8.75	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	214914	6.65	ng	0.00
18) Terphenyl-d14	22.48	244	185846	8.27	ng	0.00

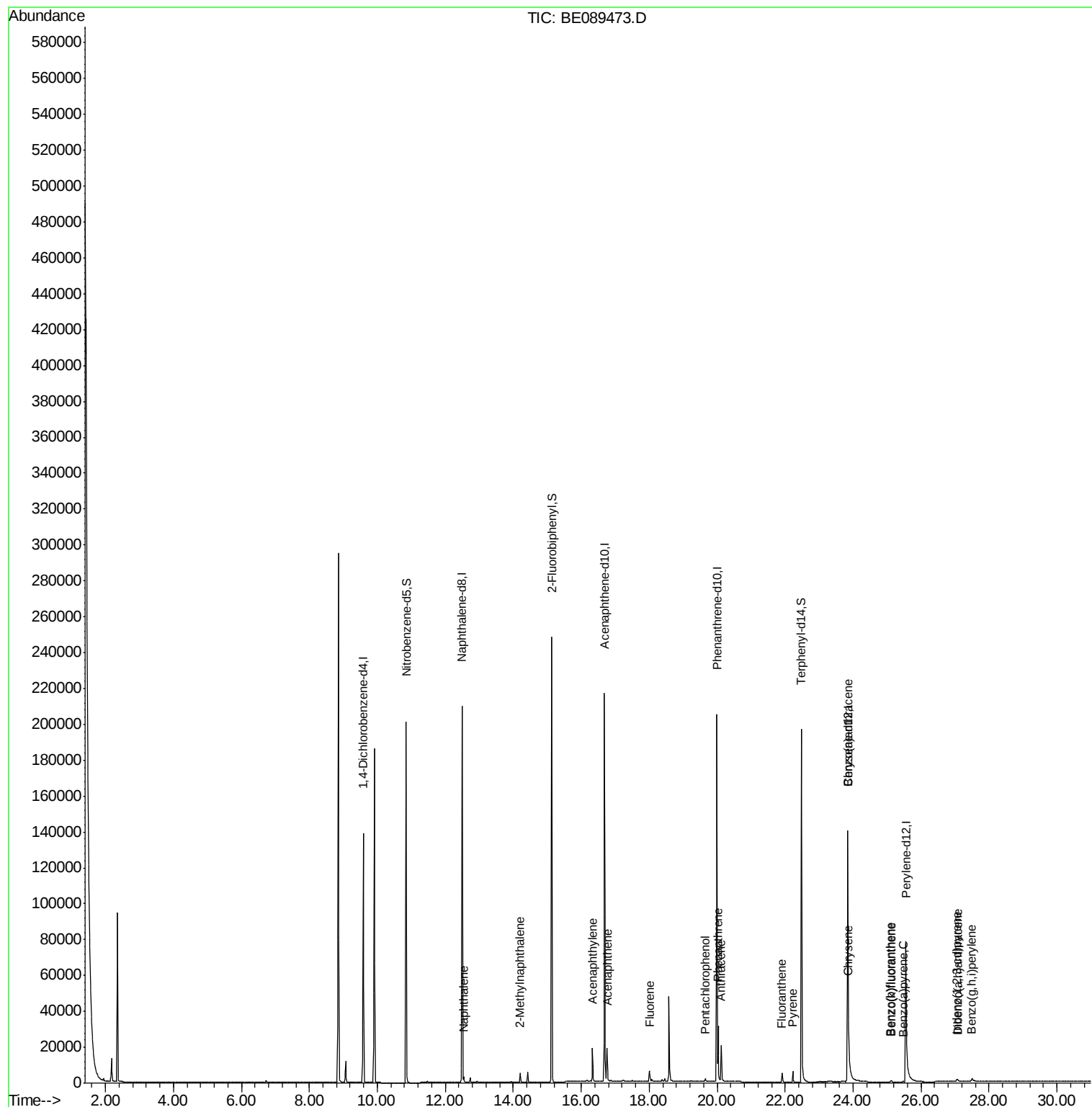
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	3112	0.06	ng	95
5) 2-Methylnaphthalene	14.20	142	3594	0.11	ng	97
8) Acenaphthylene	16.33	152	23734	0.11	ng	100
9) Acenaphthene	16.76	154	4027	0.12	ng	97
10) Fluorene	18.02	166	4352	0.12	ng	98
12) Pentachlorophenol	19.66	266	997	0.92	ng	93
13) Phenanthrene	20.03	178	27983	0.14	ng	98
14) Anthracene	20.12	178	21972	0.12	ng	100
15) Fluoranthene	21.91	202	4997	0.11	ng	97
17) Pyrene	22.22	202	5341	0.13	ng	99
19) Benzo(a)anthracene	23.83	228	11901	0.09	ng	95
20) Chrysene	23.87	228	19650	0.14	ng	# 95
21) Indeno(1,2,3-cd)pyrene	27.05	276	2674	0.02	ng	# 91
23) Benzo(b)fluoranthene	25.09	252	721	0.22	ng	# 72
24) Benzo(k)fluoranthene	25.12	252	798	0.03	ng	# 73
25) Benzo(a)pyrene	25.48	252	802	0.16	ng	# 60
26) Dibenzo(a,h)anthracene	27.08	278	459	0.15	ng	# 65
27) Benzo(g,h,i)perylene	27.50	276	3475	0.04	ng	# 64

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

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
Data File : BE089473.D
Acq On : 31 Jan 2015 17:27
Operator : TP/IZ
Sample : MDL-05-S
Misc : MDL-SOIL-0.1/0.2
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :

Quant Time: Feb 02 02:54:03 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: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :

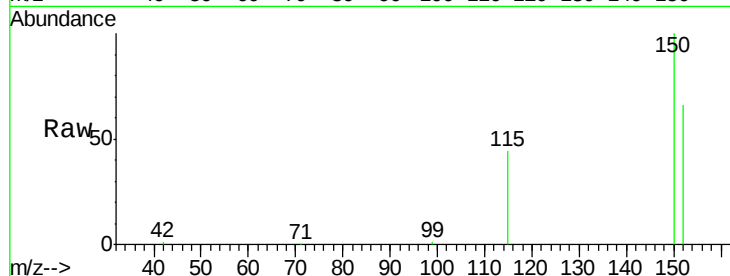
Tgt Ion:152 Resp: 56163

Ion Ratio Lower Upper

152 100

150 152.4 127.2 190.8

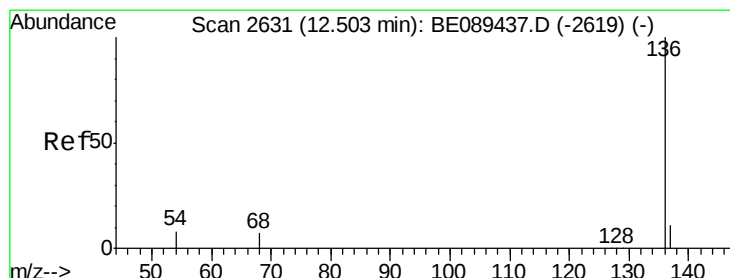
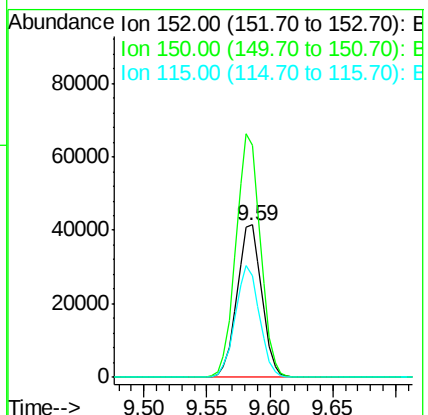
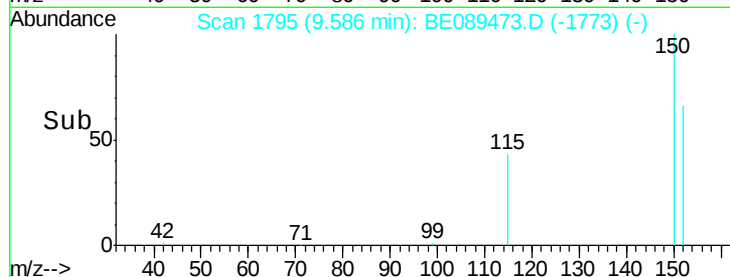
115 66.4 57.5 86.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

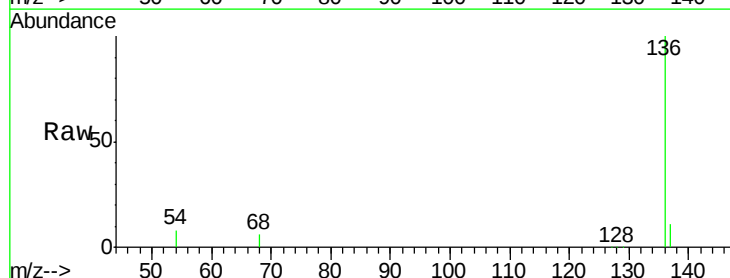
Tgt Ion:136 Resp: 235143

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

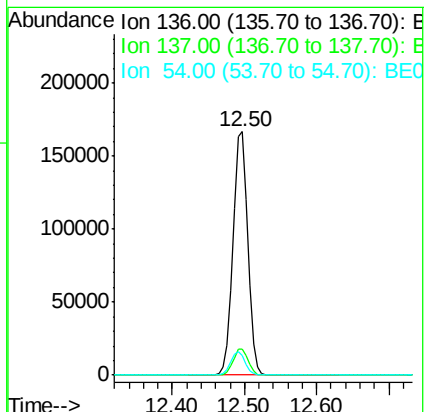
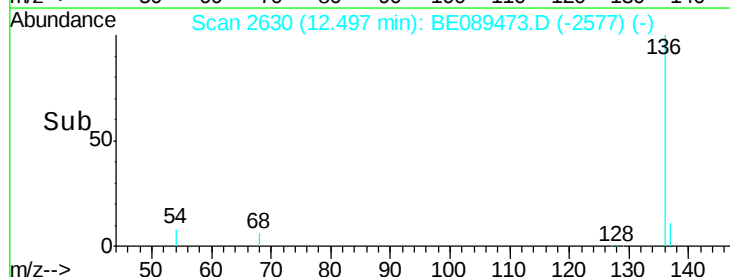
54 7.8 6.6 10.0



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: 8.75 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.01 min

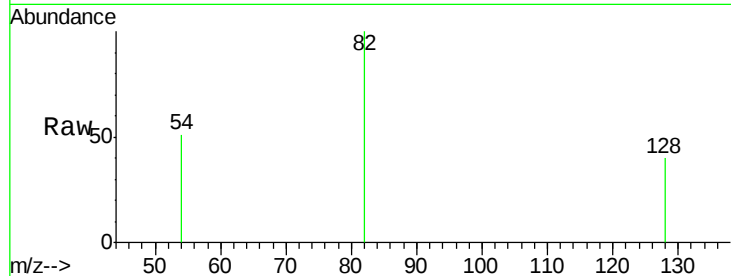
Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

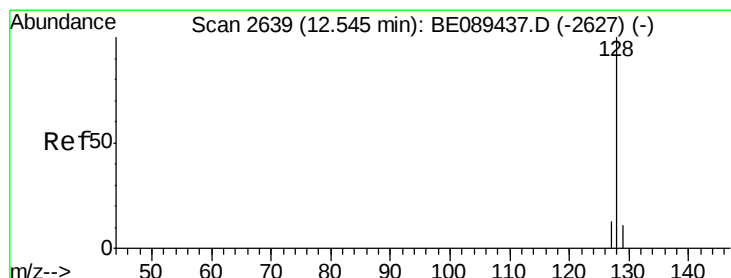
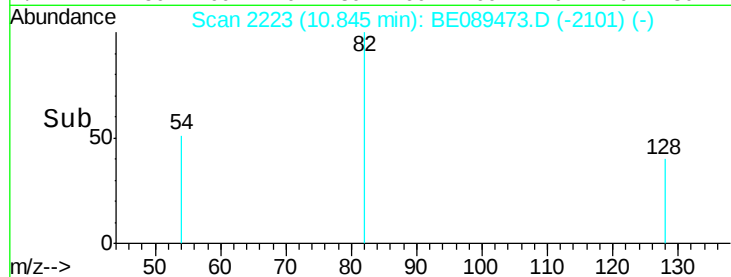
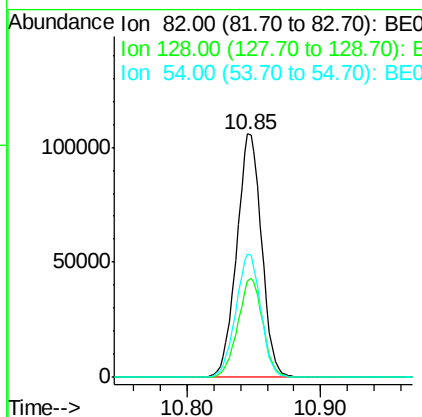
Instrument :

BNA_E

ClientSampled :



Tgt Ion:	82	Resp:	136214
Ion	Ratio	Lower	Upper
82	100		
128	39.5	31.2	46.8
54	50.8	41.9	62.9



#4

Naphthalene

Concen: 0.06 ng

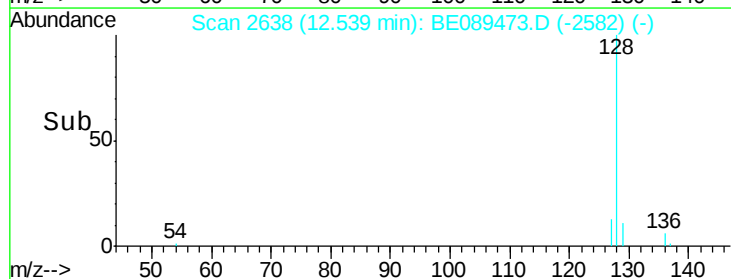
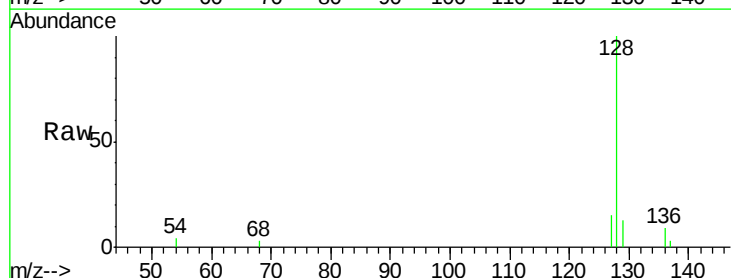
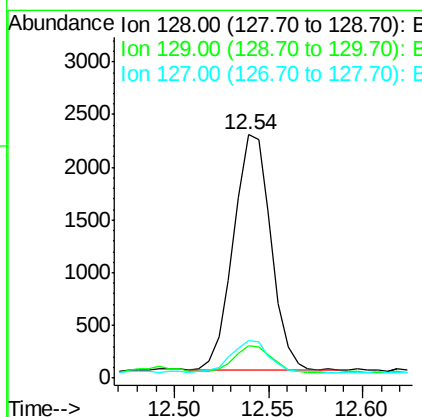
RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Tgt Ion:	128	Resp:	3112
Ion	Ratio	Lower	Upper
128	100		
129	13.2	8.8	13.2
127	15.3	10.6	16.0





#5

2-Methylnaphthalene

Concen: 0.11 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :

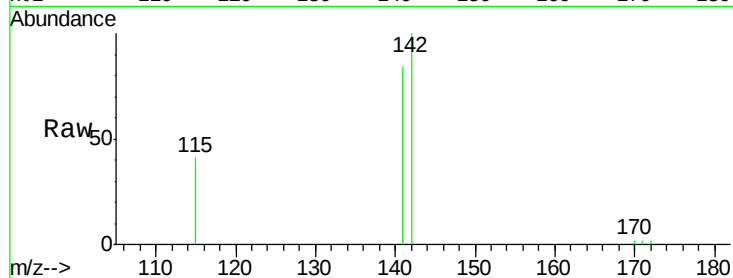
Tgt Ion:142 Resp: 3594

Ion Ratio Lower Upper

142 100

141 83.8 66.1 99.1

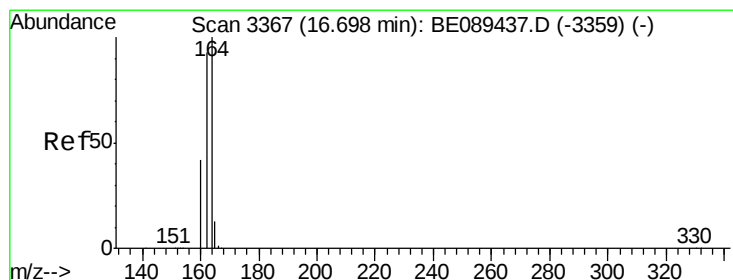
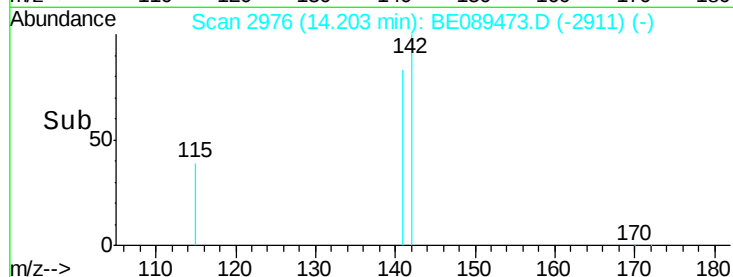
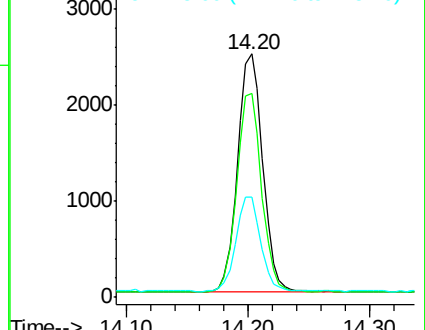
115 41.0 29.9 44.9



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: BE089473.D

Acq: 31 Jan 2015 17:27

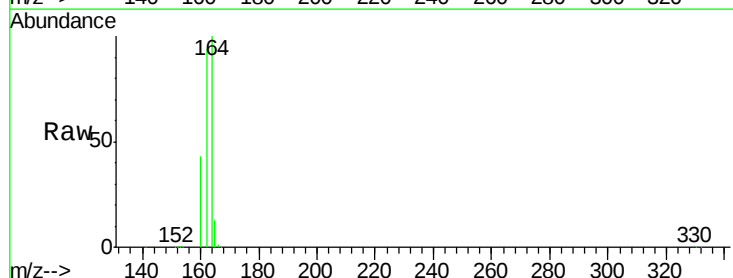
Tgt Ion:164 Resp: 122648

Ion Ratio Lower Upper

164 100

162 94.5 74.7 112.1

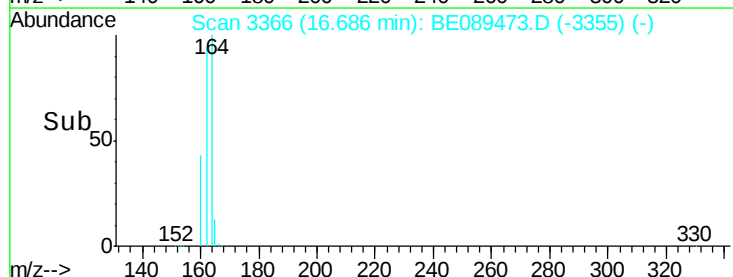
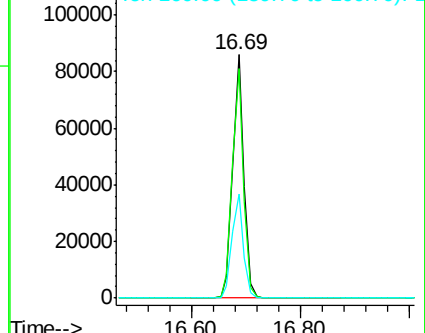
160 42.7 33.4 50.0



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: 6.65 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :

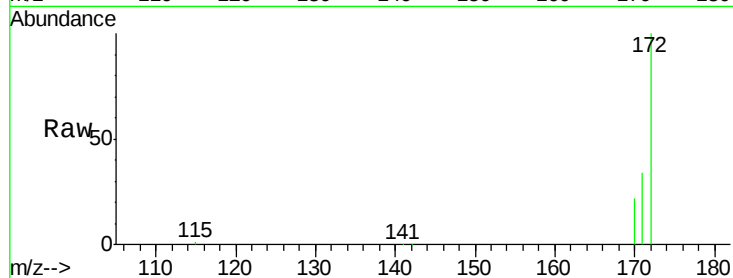
Tgt Ion:172 Resp: 214914

Ion Ratio Lower Upper

172 100

171 33.6 26.2 39.4

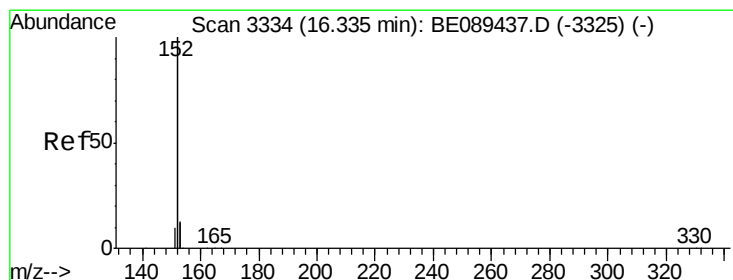
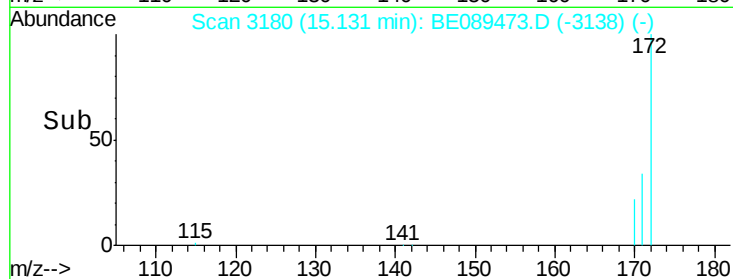
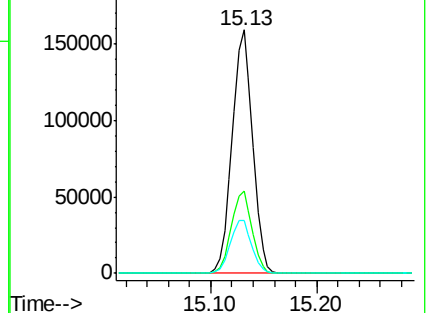
170 21.8 16.5 24.7



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: 0.11 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

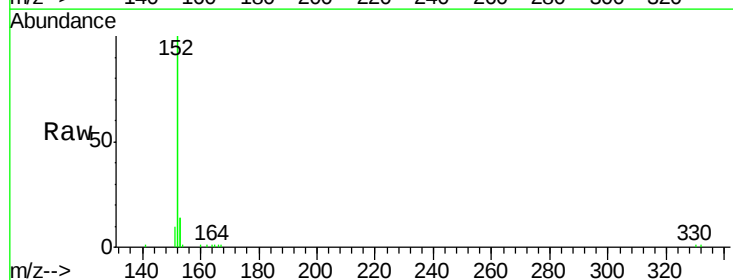
Tgt Ion:152 Resp: 23734

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

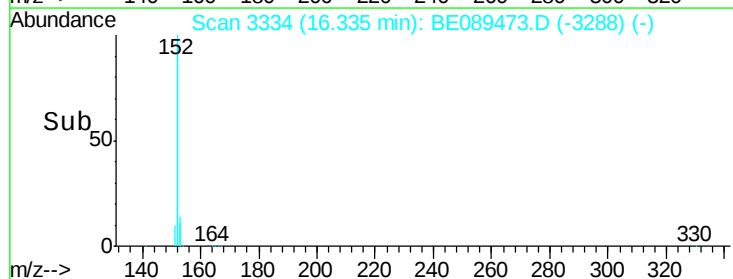
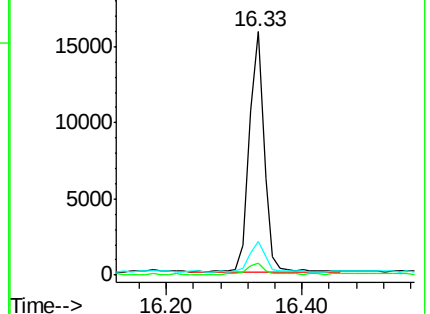
153 13.0 10.3 15.5



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: 0.12 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampled :

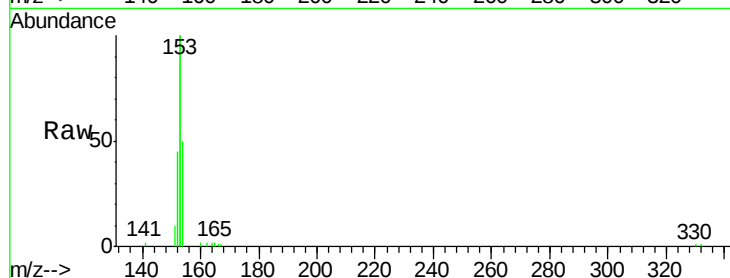
Tgt Ion:154 Resp: 4027

Ion Ratio Lower Upper

154 100

153 429.6 342.3 513.5

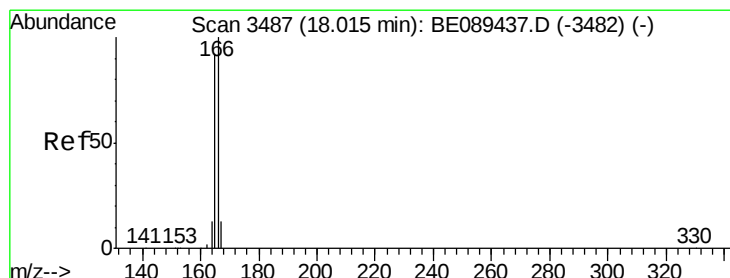
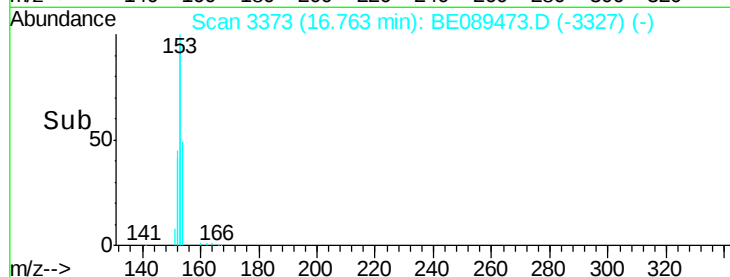
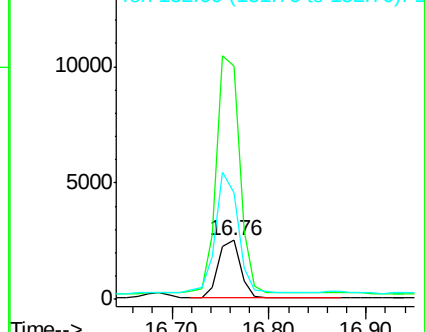
152 217.5 165.5 248.3



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: 0.12 ng

RT: 18.02 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

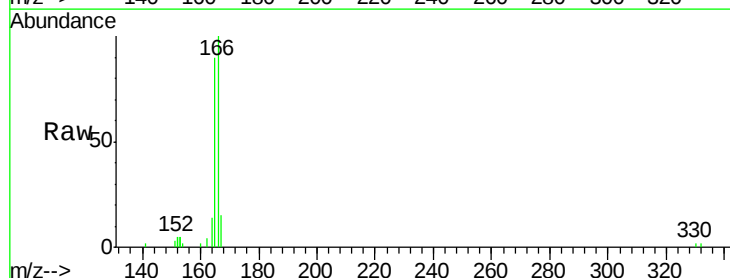
Tgt Ion:166 Resp: 4352

Ion Ratio Lower Upper

166 100

165 95.5 74.4 111.6

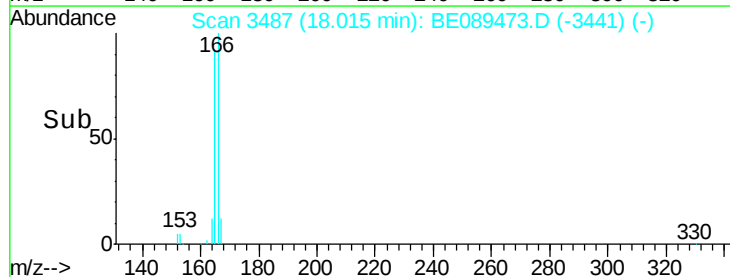
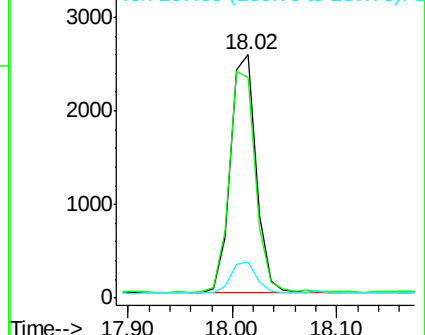
167 12.9 10.6 15.8

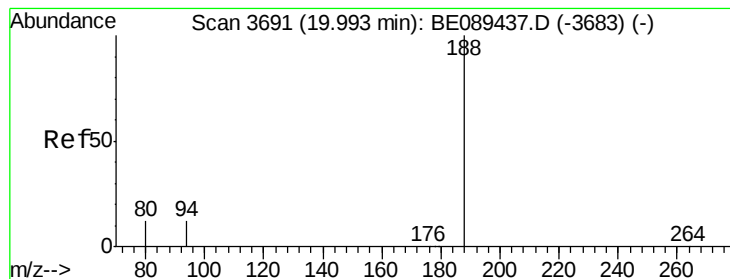


Abundance Ion 166.00 (165.70 to 166.70): E

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: 19.99 min Scan# 3690

Delta R.T. -0.01 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :

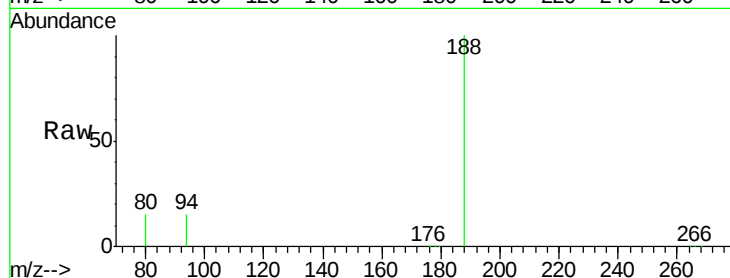
Tgt Ion:188 Resp: 202896

Ion Ratio Lower Upper

188 100

94 14.6 9.4 14.0#

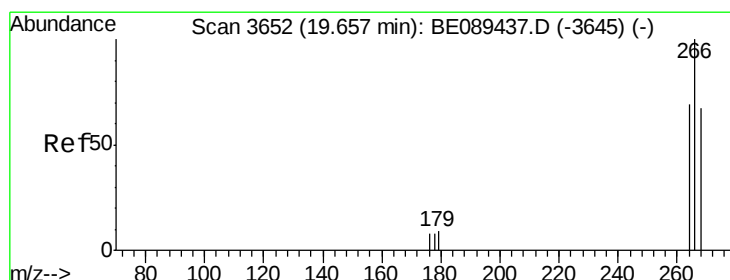
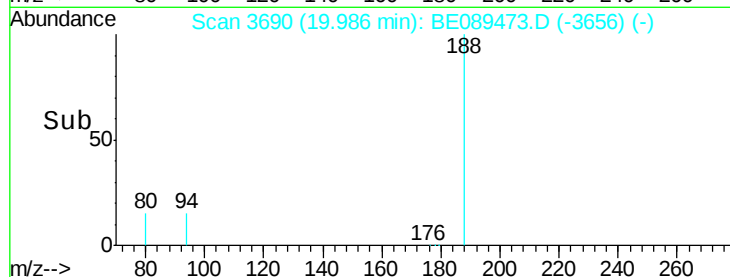
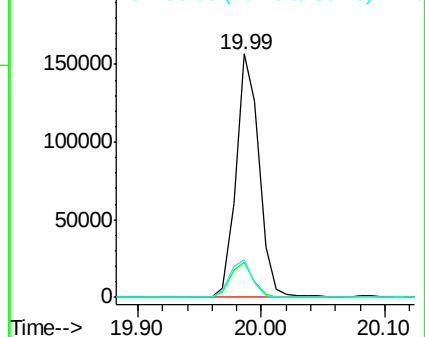
80 15.5 9.3 13.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#12

Pentachlorophenol

Concen: 0.92 ng

RT: 19.66 min Scan# 3652

Delta R.T. 0.00 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

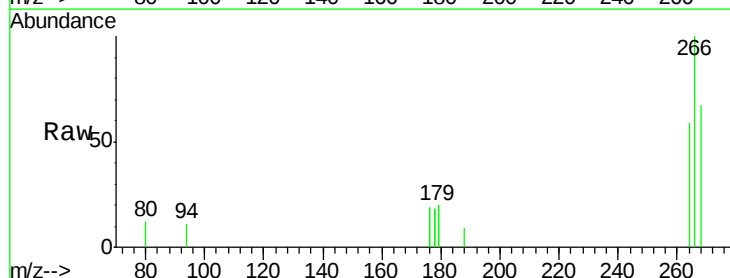
Tgt Ion:266 Resp: 997

Ion Ratio Lower Upper

266 100

268 67.5 54.2 81.4

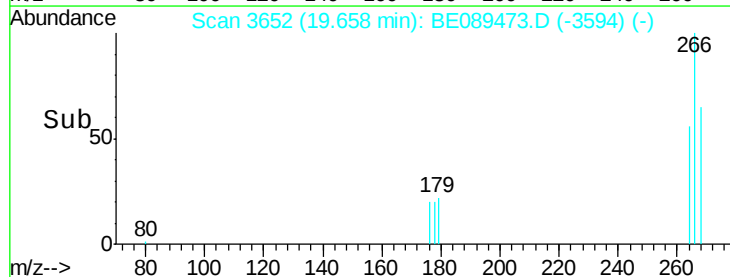
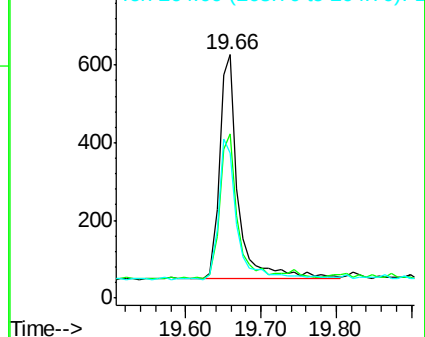
264 59.5 56.2 84.2



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.14 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :

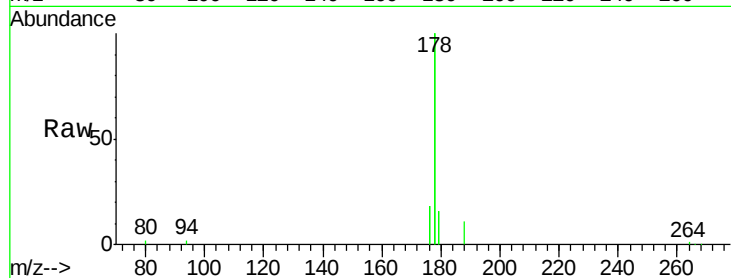
Tgt Ion:178 Resp: 27983

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

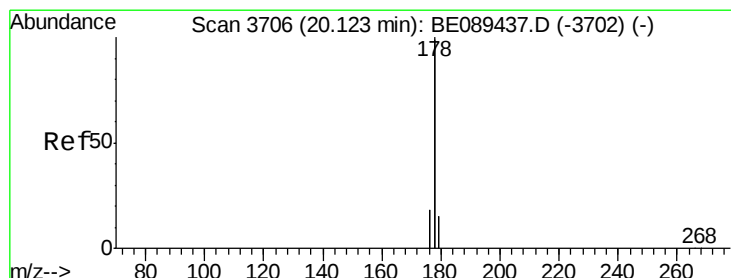
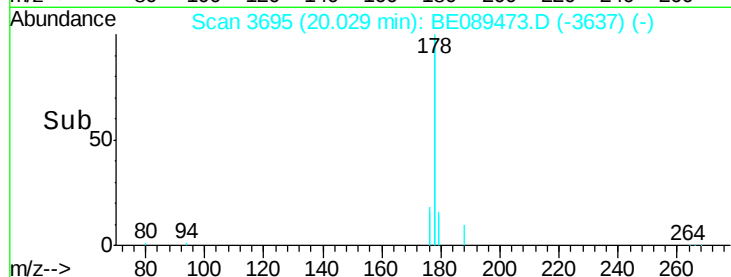
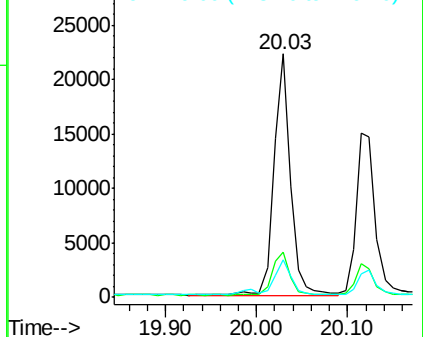
179 17.1 12.3 18.5



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: 0.12 ng

RT: 20.12 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

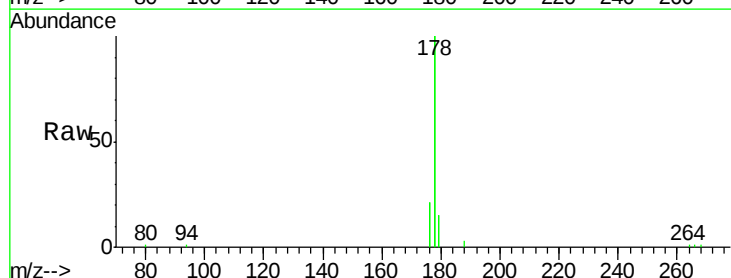
Tgt Ion:178 Resp: 21972

Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

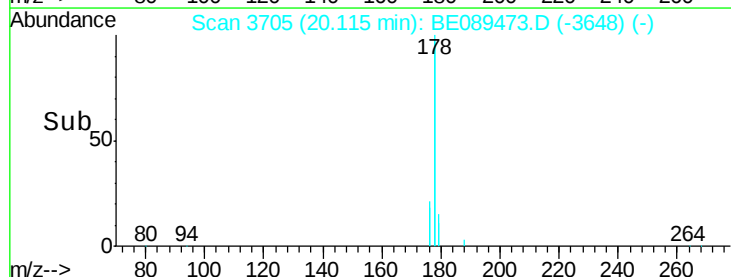
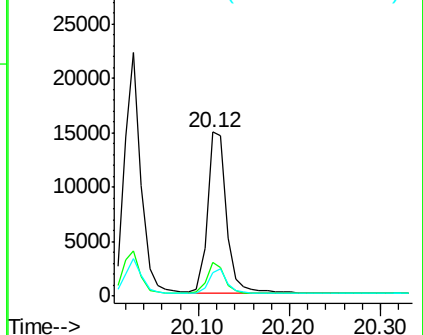
179 15.3 12.2 18.2

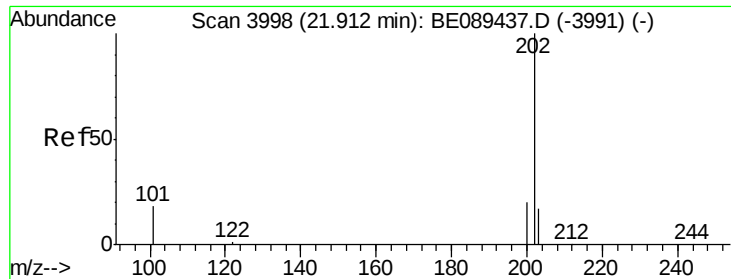


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

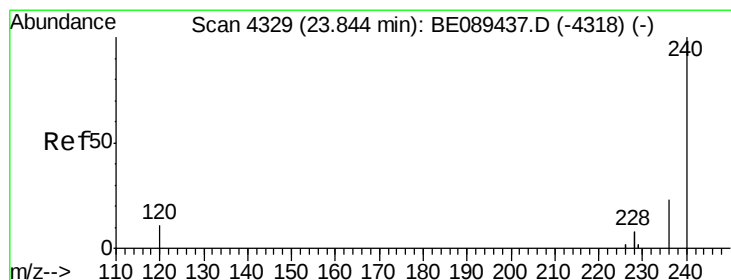
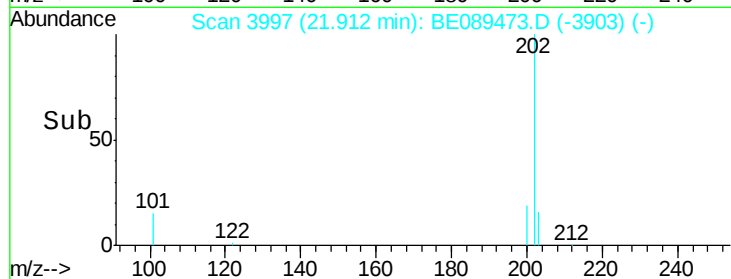
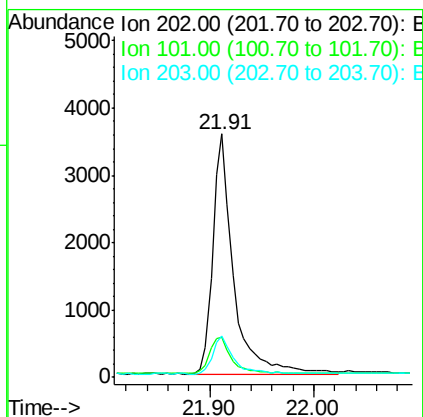
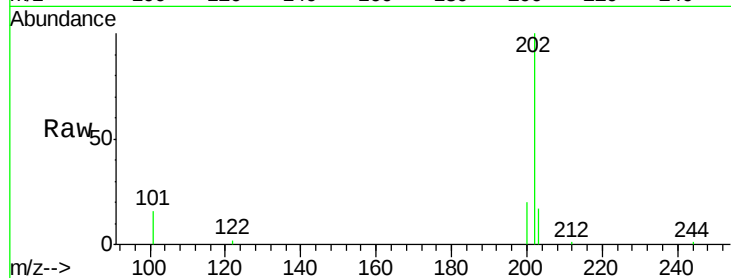




#15
 Fluoranthene
 Concen: 0.11 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089473.D
 Acq: 31 Jan 2015 17:27

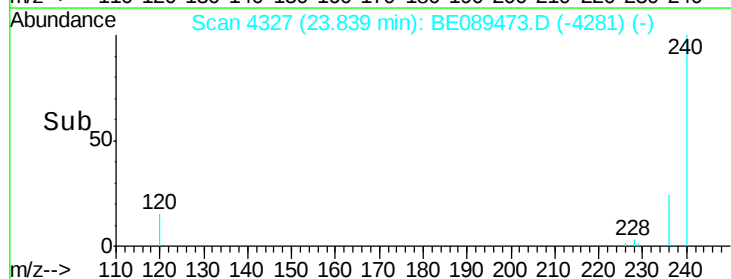
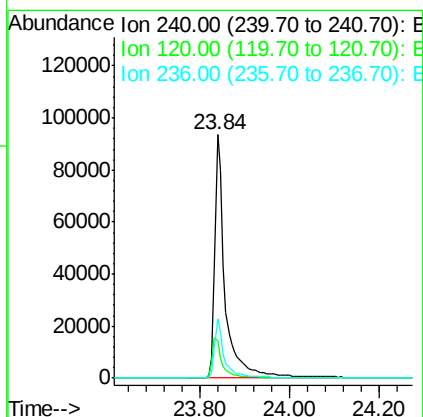
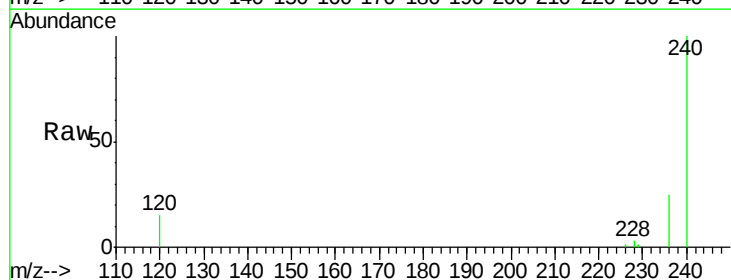
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 4997
 Ion Ratio Lower Upper
 202 100
 101 16.0 13.6 20.4
 203 15.8 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: BE089473.D
 Acq: 31 Jan 2015 17:27

Tgt Ion: 240 Resp: 150120
 Ion Ratio Lower Upper
 240 100
 120 15.3 8.6 13.0#
 236 24.5 18.7 28.1

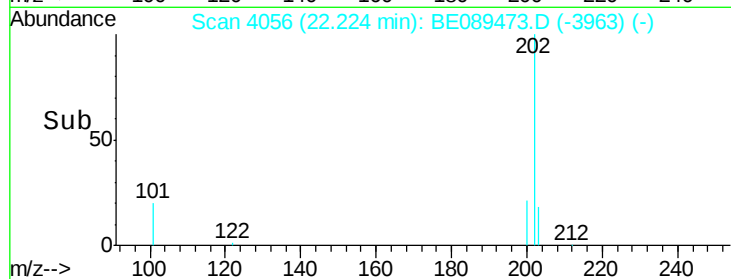
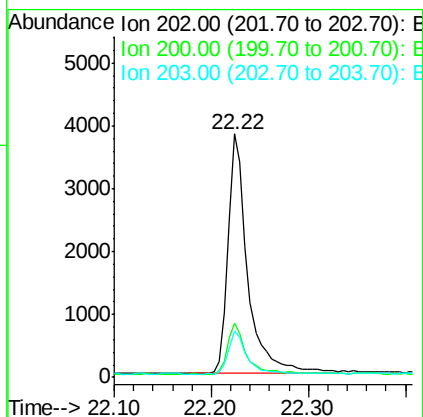
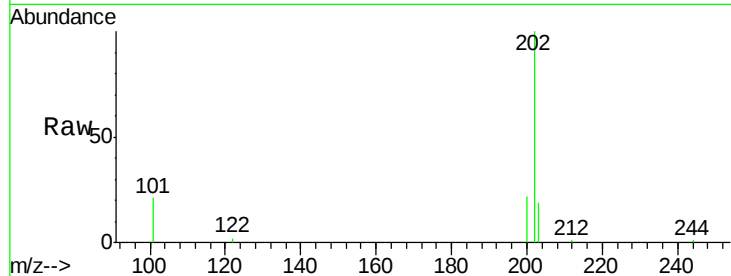




#17
 Pyrene
 Concen: 0.13 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089473.D
 Acq: 31 Jan 2015 17:27

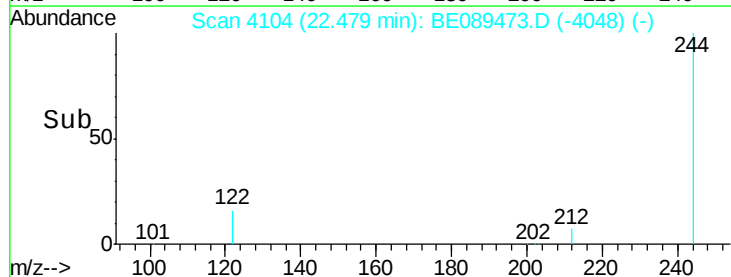
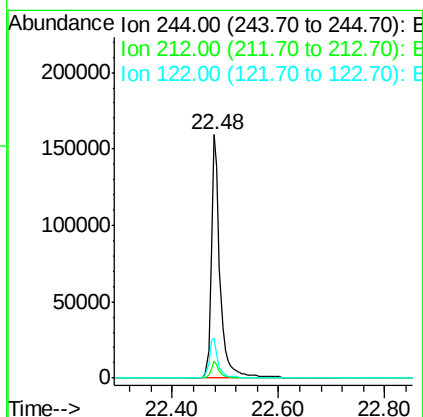
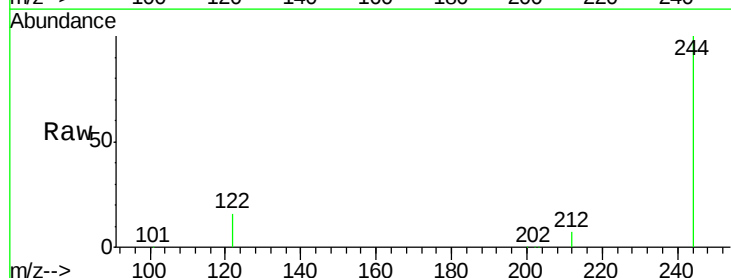
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 5341
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.2 24.4
 203 16.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 8.27 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089473.D
 Acq: 31 Jan 2015 17:27

Tgt Ion: 244 Resp: 185846
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.0 7.6
 122 16.3 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: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :

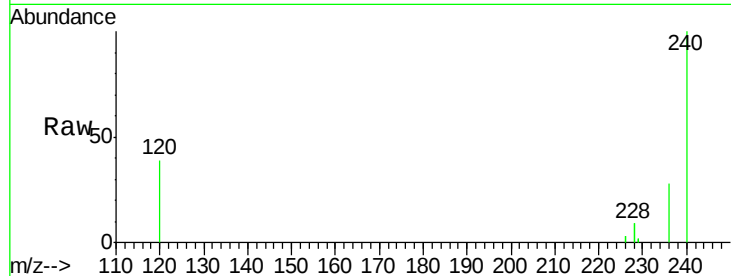
Tgt Ion:228 Resp: 11901

Ion Ratio Lower Upper

228 100

226 28.2 20.0 30.0

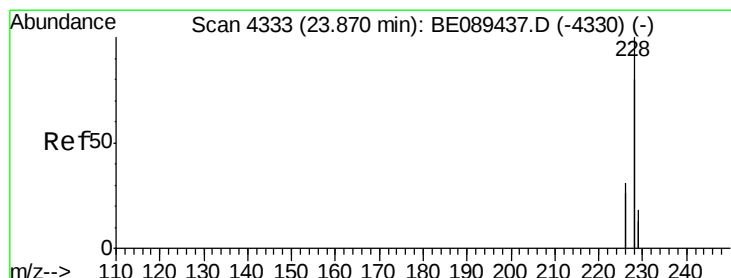
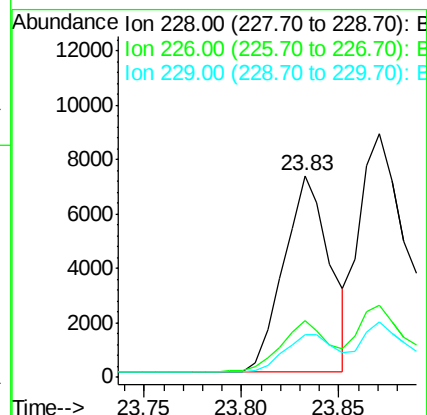
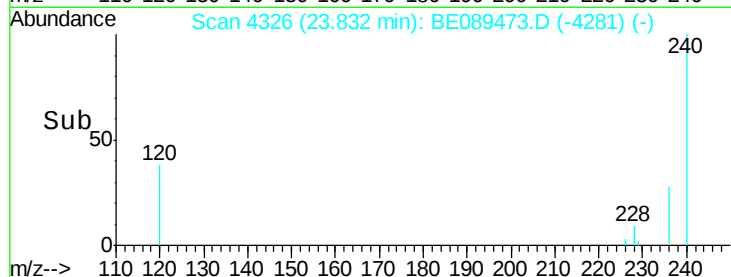
229 21.3 16.0 24.0



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: BE089473.D

Acq: 31 Jan 2015 17:27

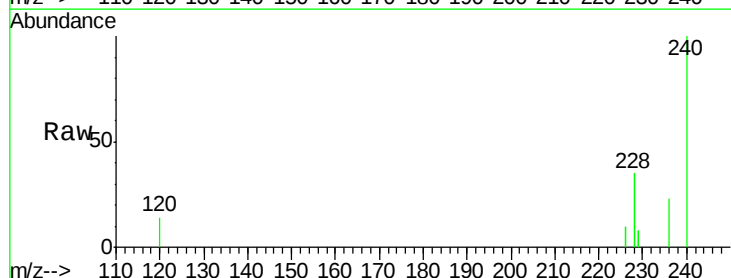
Tgt Ion:228 Resp: 19650

Ion Ratio Lower Upper

228 100

226 29.6 24.5 36.7

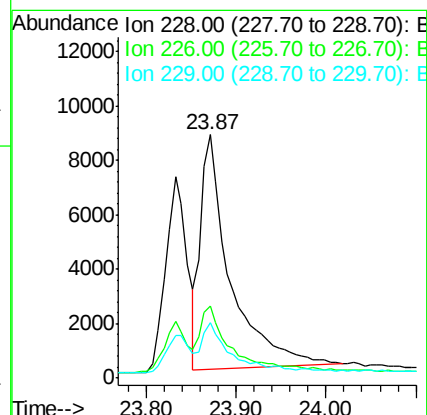
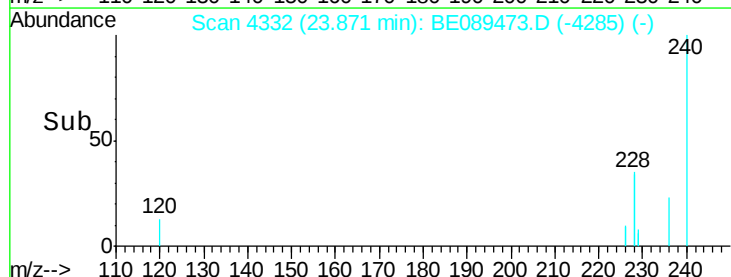
229 22.5 14.1 21.1#



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

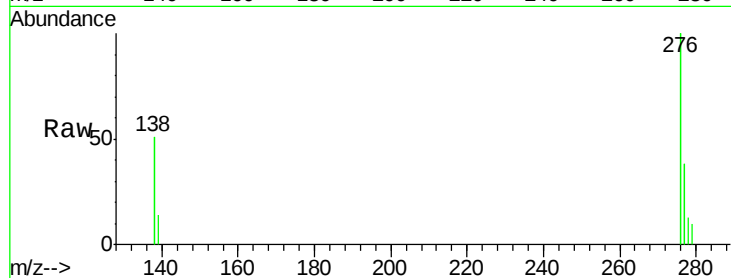
Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

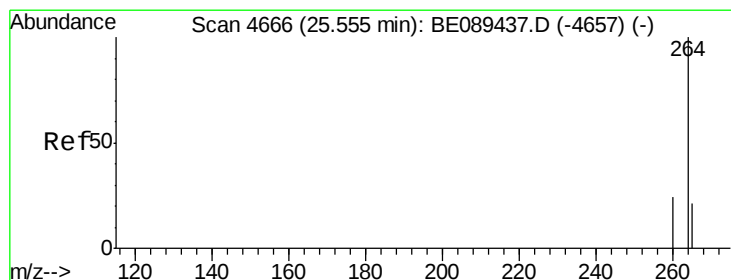
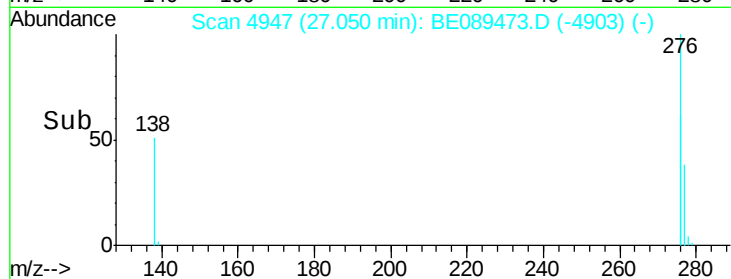
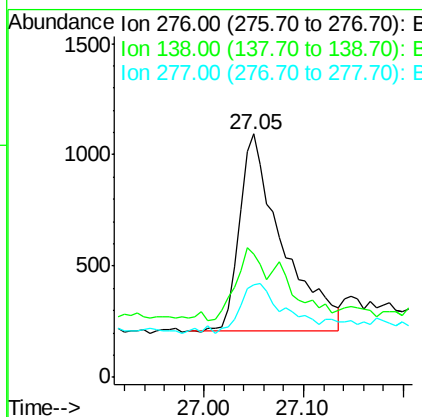
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	2674
Ion	Ratio	Lower	Upper
276	100		
138	23.2	25.4	38.0#
277	25.4	19.8	29.6



#22

Perylene-d12

Concen: 5.00 ng

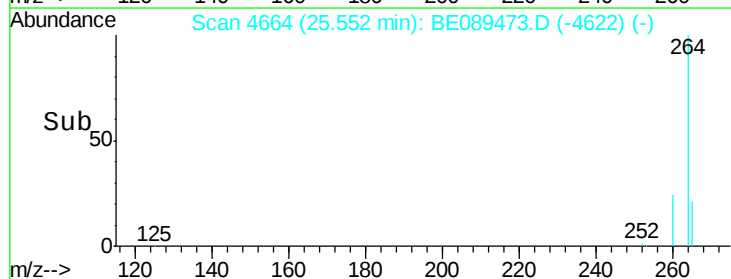
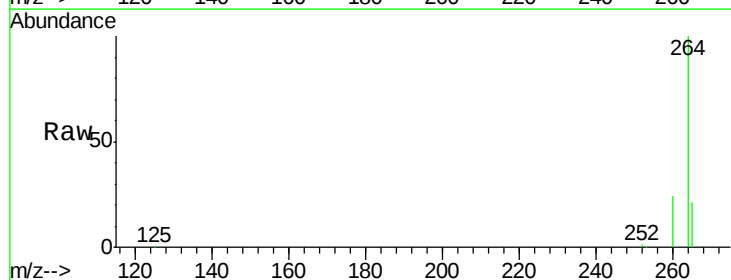
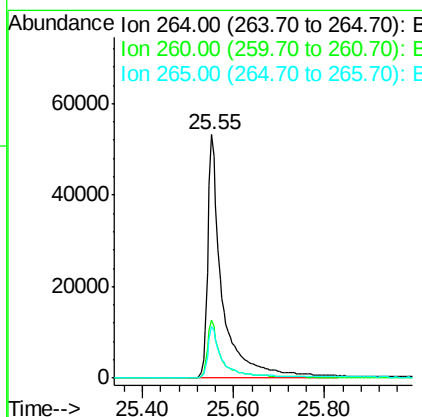
RT: 25.55 min Scan# 4664

Delta R.T. -0.00 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Tgt Ion:	264	Resp:	118570
Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.4	29.0
265	21.3	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: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :

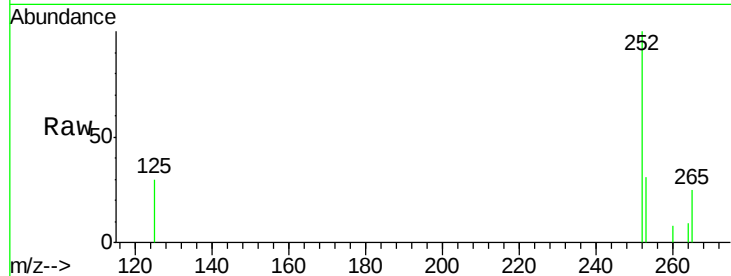
Tgt Ion:252 Resp: 721

Ion Ratio Lower Upper

252 100

253 31.0 17.0 25.6#

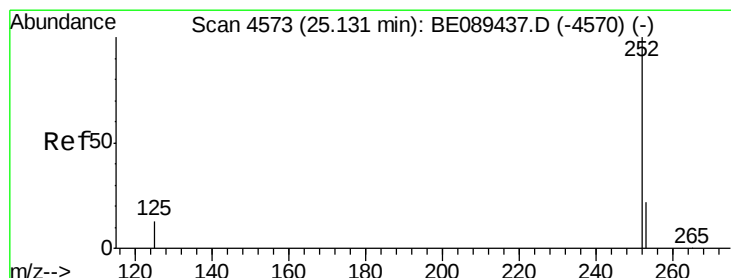
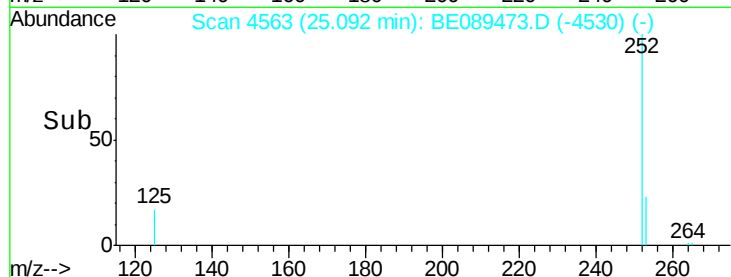
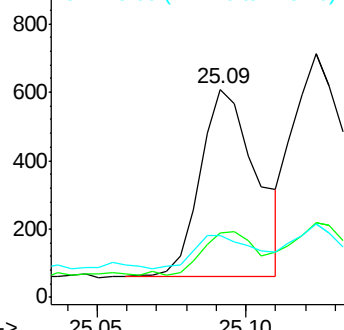
125 29.9 11.4 17.0#



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: 0.03 ng

RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

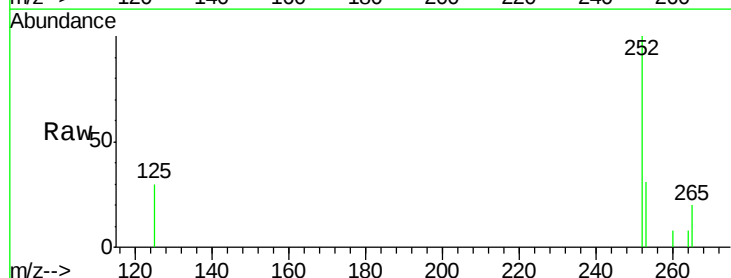
Tgt Ion:252 Resp: 798

Ion Ratio Lower Upper

252 100

253 30.9 17.4 26.2#

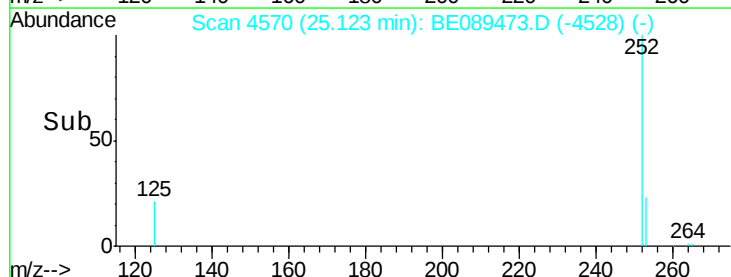
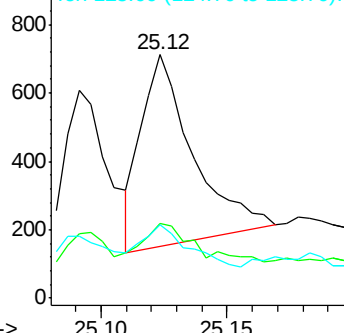
125 30.1 10.9 16.3#



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

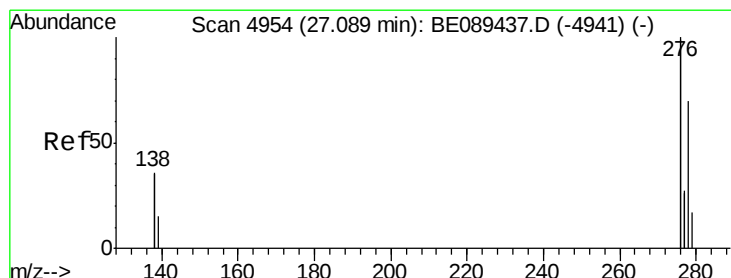
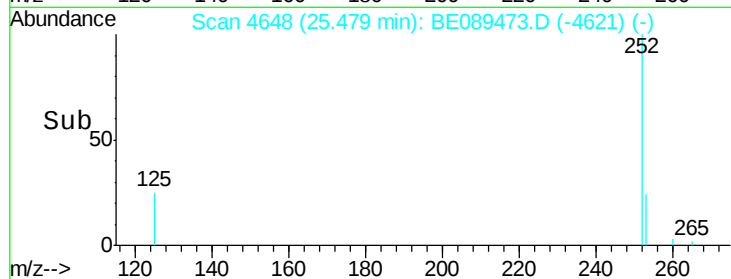
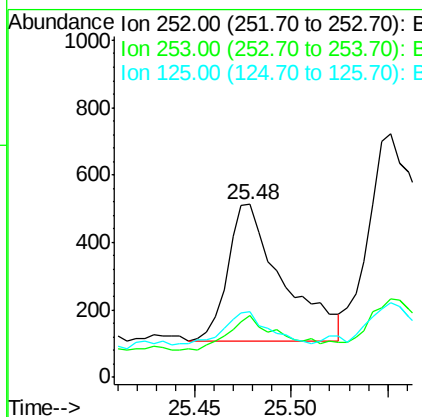
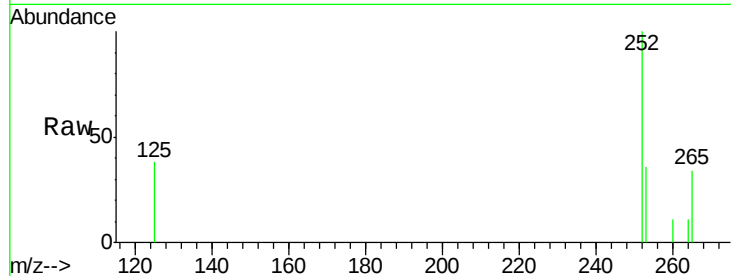




#25
Benzo(a)pyrene
Concen: 0.16 ng
RT: 25.48 min Scan# 4648
Delta R.T. -0.01 min
Lab File: BE089473.D
Acq: 31 Jan 2015 17:27

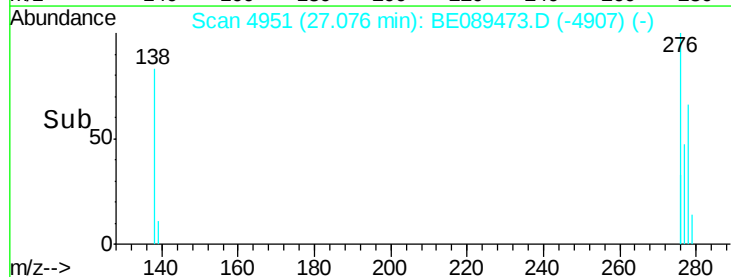
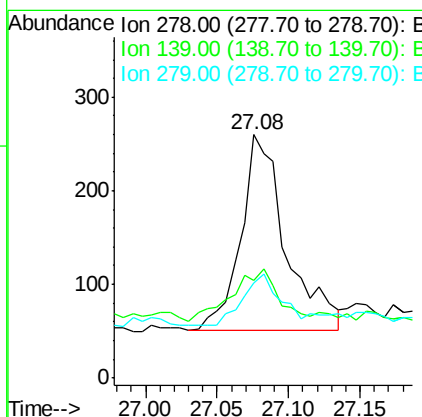
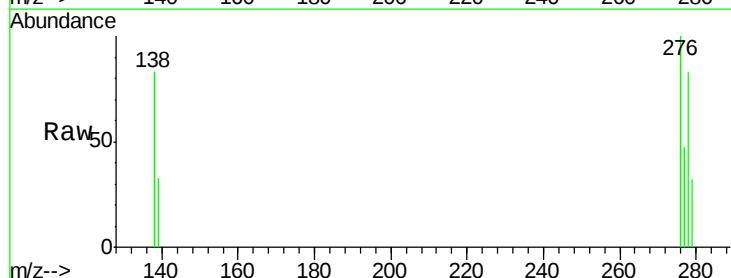
Instrument :
BNA_E
ClientSampled :

Tgt Ion: 252 Resp: 802
Ion Ratio Lower Upper
252 100
253 35.9 17.3 25.9#
125 37.8 12.0 18.0#



#26
Dibenzo(a,h)anthracene
Concen: 0.15 ng
RT: 27.08 min Scan# 4951
Delta R.T. -0.01 min
Lab File: BE089473.D
Acq: 31 Jan 2015 17:27

Tgt Ion: 278 Resp: 459
Ion Ratio Lower Upper
278 100
139 40.0 17.0 25.4#
279 38.8 19.1 28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

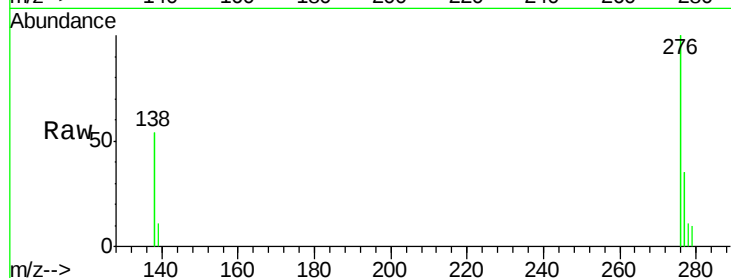
Lab File: BE089473.D

Acq: 31 Jan 2015 17:27

Instrument :

BNA_E

ClientSampleId :



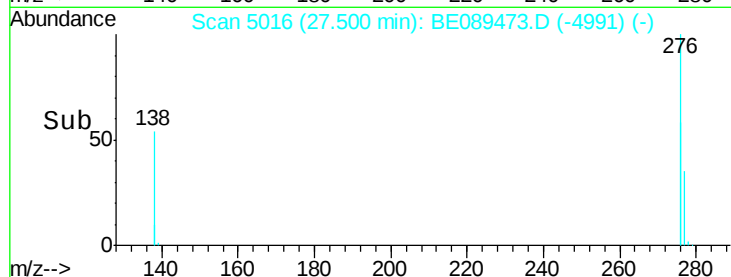
Tgt Ion: 276 Resp: 3475

Ion Ratio Lower Upper

276 100

277 35.4 18.4 27.6#

138 53.6 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

