

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089635.D
 Acq On : 19 Feb 2015 13:19
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 20 01:02:01 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	36168	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	143582	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	72013	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	143700	5.00	ng	0.00
19) Chrysene-d12	23.66	240	134899	5.00	ng	0.00
25) Perylene-d12	25.34	264	112790	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	57991	9.29	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	158803	8.23	ng	0.00
21) Terphenyl-d14	22.30	244	195686	10.09	ng	0.00

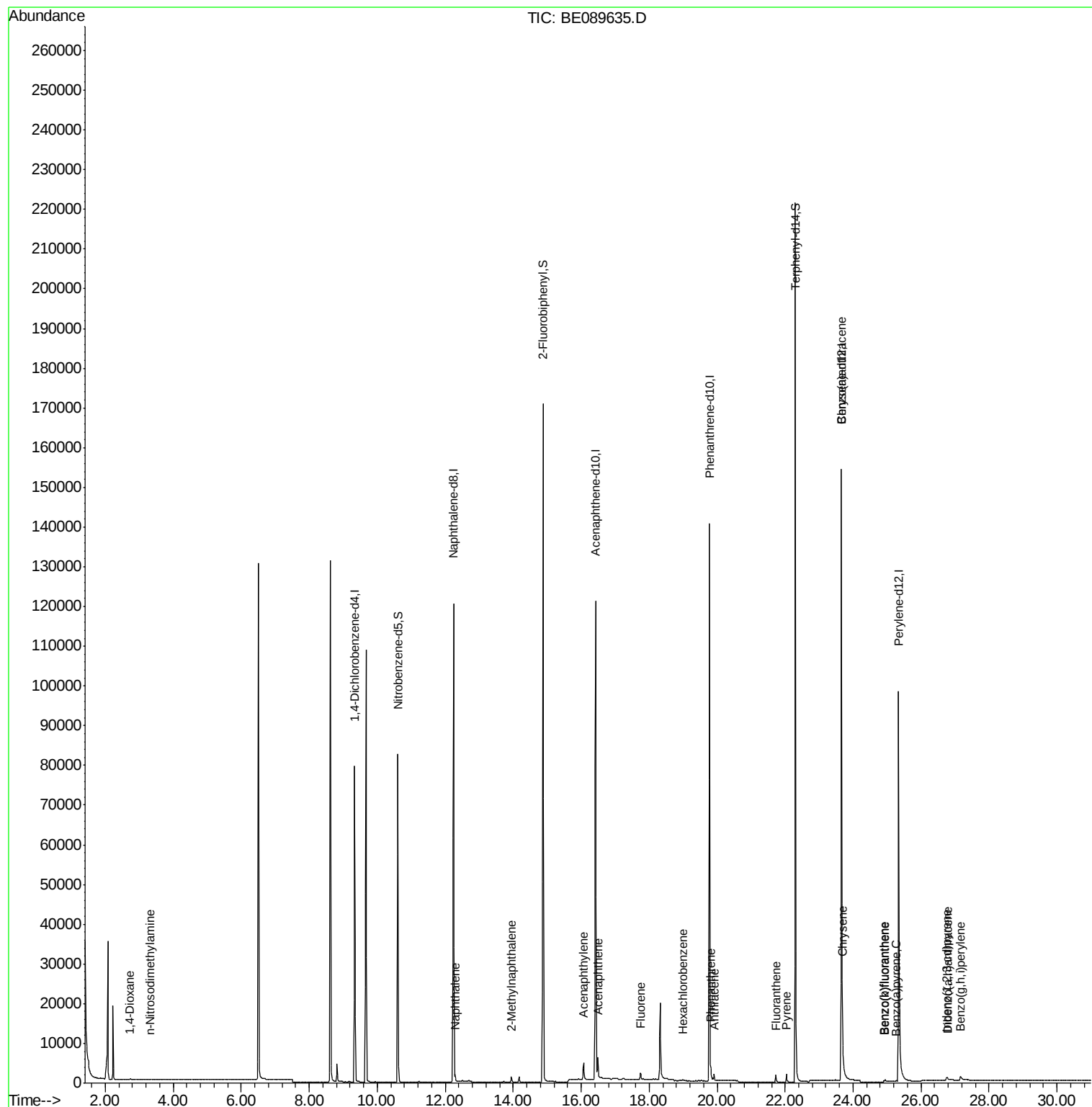
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	229	0.05	ng	# 83
3) n-Nitrosodimethylamine	3.32	42	3	0.00	ng	# 35
6) Naphthalene	12.29	128	2020	0.06	ng	# 92
7) 2-Methylnaphthalene	13.95	142	1095	0.06	ng	96
10) Acenaphthylene	16.07	152	5954	0.05	ng	99
11) Acenaphthene	16.50	154	1146	0.06	ng	95
12) Fluorene	17.74	166	1214	0.06	ng	# 98
14) Hexachlorobenzene	19.00	284	405	0.07	ng	93
15) Pentachlorophenol	19.44	266	22	Below Cal		# 67
16) Phenanthrene	19.82	178	2204	0.06	ng	99
17) Anthracene	19.91	178	1553	0.05	ng	98
18) Fluoranthene	21.72	202	1595	0.05	ng	99
20) Pyrene	22.04	202	1707	0.05	ng	99
22) Benzo(a)anthracene	23.65	228	6418	0.05	ng	# 93
23) Chrysene	23.69	228	9564	0.07	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	2008	0.19	ng	95
26) Benzo(b)fluoranthene	24.91	252	438	0.29	ng	# 71
27) Benzo(k)fluoranthene	24.94	252	783	0.02	ng	# 78
28) Benzo(a)pyrene	25.27	252	460	0.26	ng	# 71
29) Dibenzo(a,h)anthracene	26.77	278	340	0.24	ng	# 47
30) Benzo(g,h,i)perylene	27.17	276	2746	0.16	ng	# 68

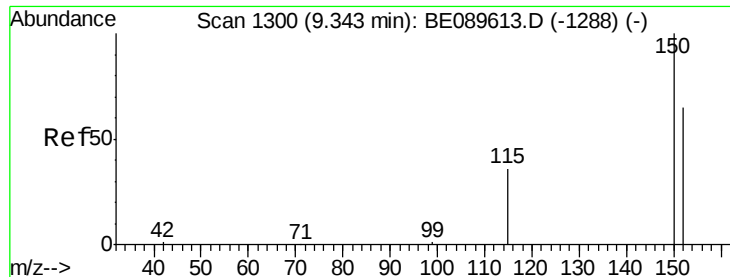
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampled :

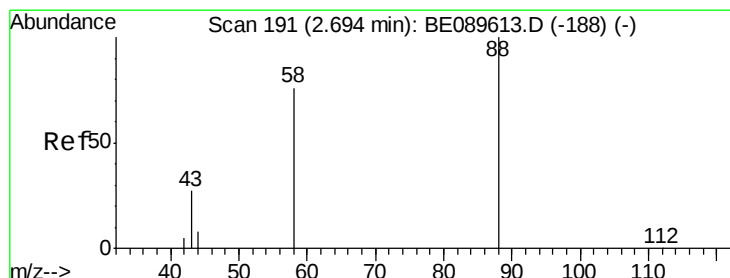
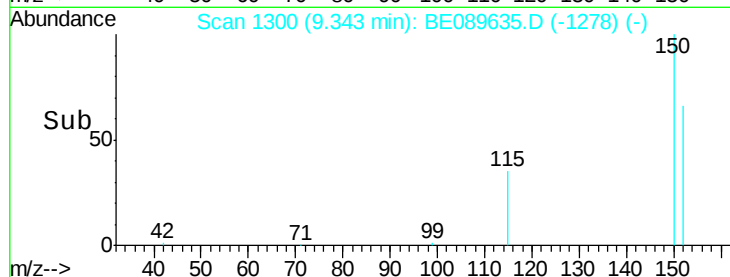
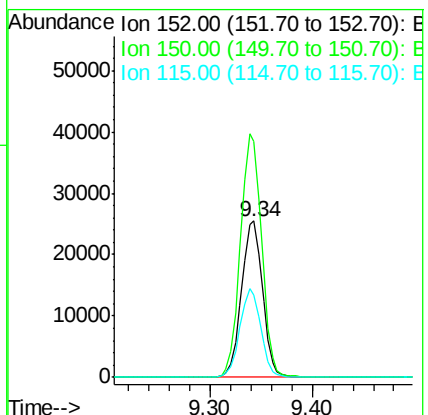
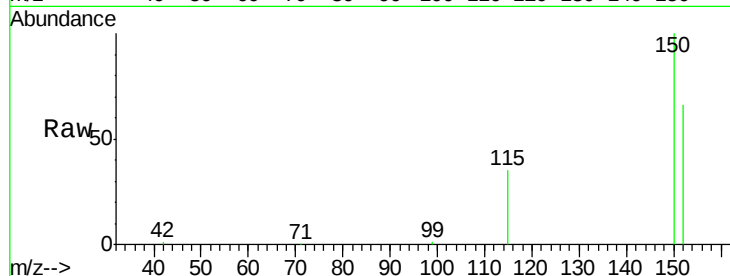
Tgt Ion:152 Resp: 36168

Ion Ratio Lower Upper

152 100

150 150.9 122.4 183.6

115 52.5 44.2 66.2



#2

1,4-Dioxane

Concen: 0.05 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

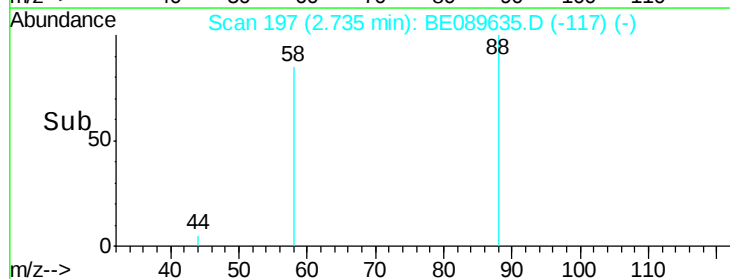
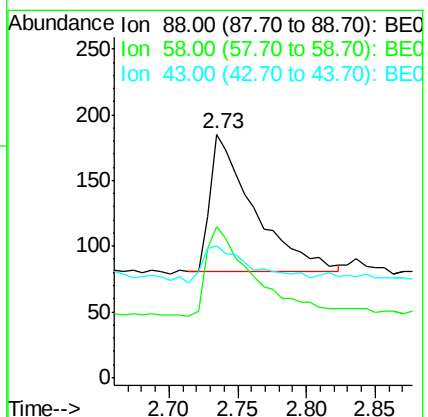
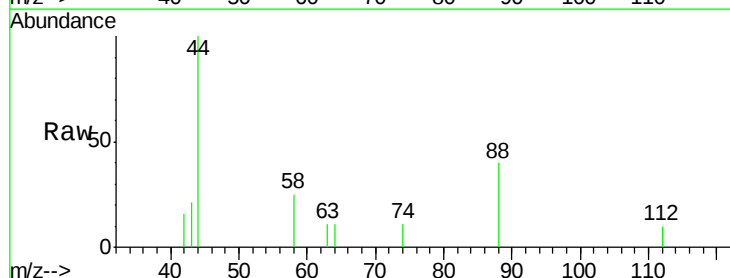
Tgt Ion: 88 Resp: 229

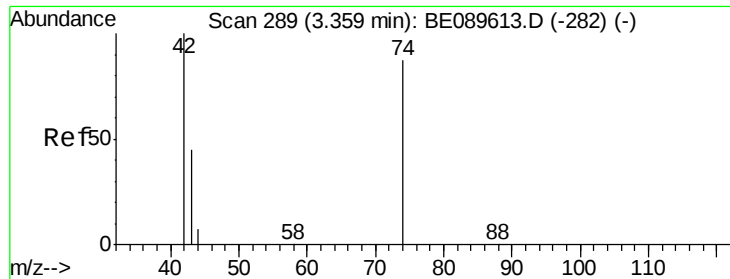
Ion Ratio Lower Upper

88 100

58 71.2 54.6 81.8

43 0.0 20.6 30.8#



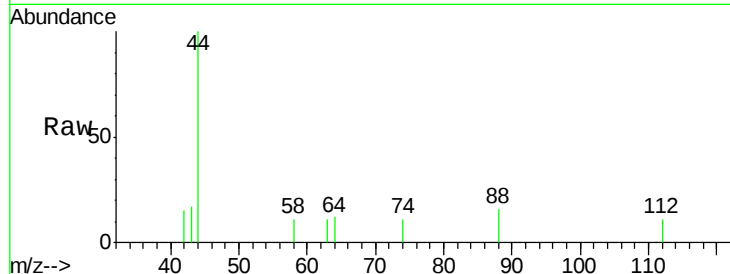


#3

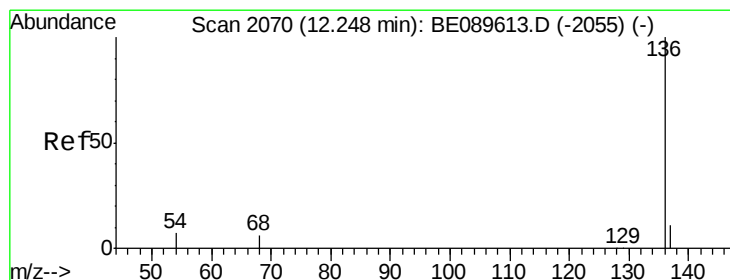
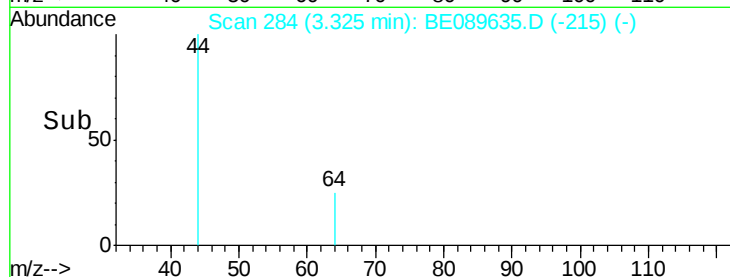
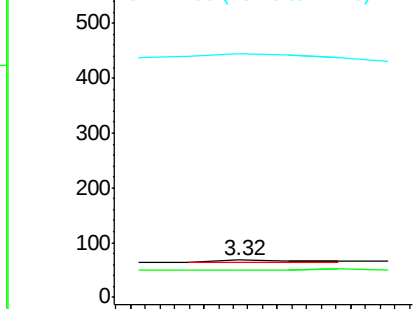
n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.32 min Scan# 284
 Delta R.T. -0.03 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 42 Resp: 3
 Ion Ratio Lower Upper
 42 100
 74 66.7 121.4 182.0#
 44 0.0 4.5 6.7#



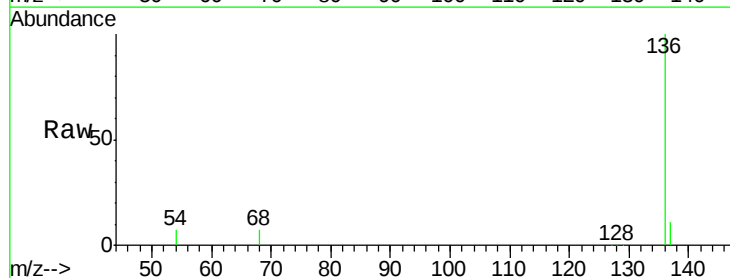
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



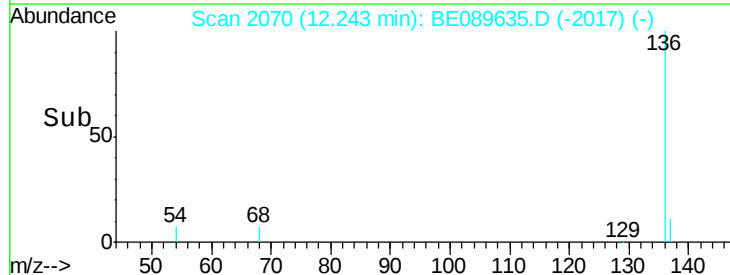
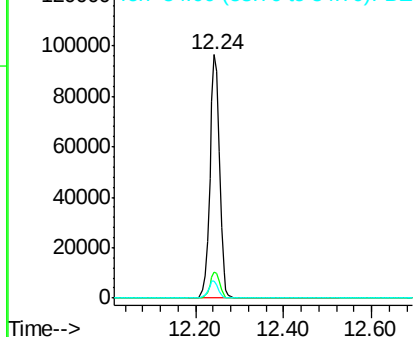
#4

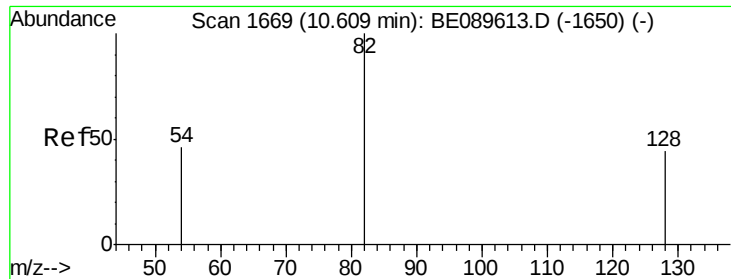
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Tgt Ion: 136 Resp: 143582
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.9 13.3
 54 7.2 5.3 7.9



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





#5

Nitrobenzene-d5

Concen: 9.29 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

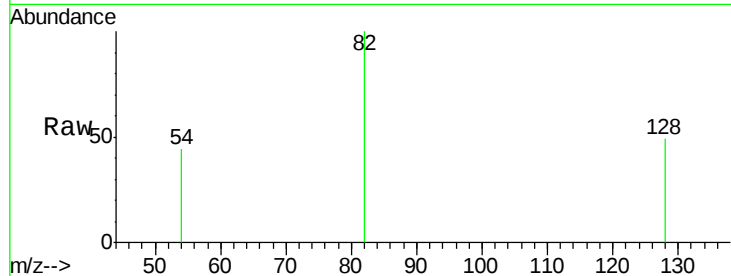
Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

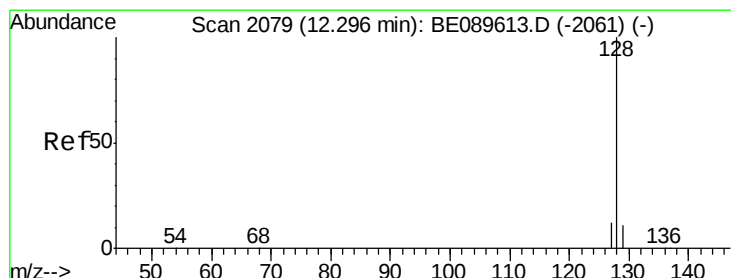
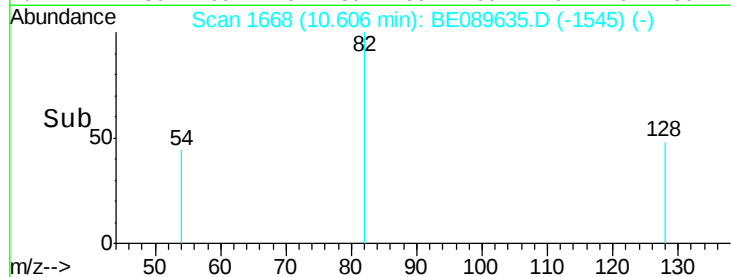
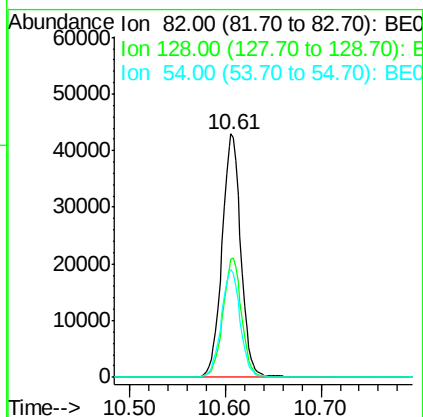
Instrument :

BNA_E

ClientSampled :



Tgt Ion:	82	Resp:	57991
Ion	Ratio	Lower	Upper
82	100		
128	48.5	35.5	53.3
54	44.2	37.5	56.3



#6

Naphthalene

Concen: 0.06 ng

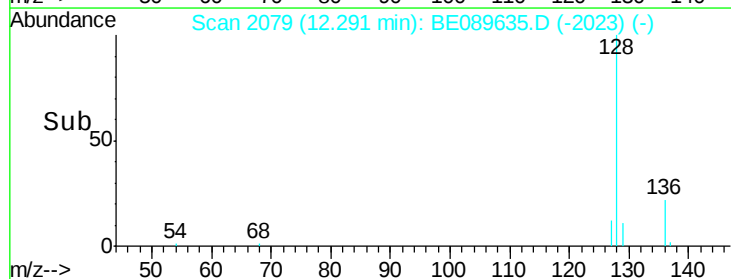
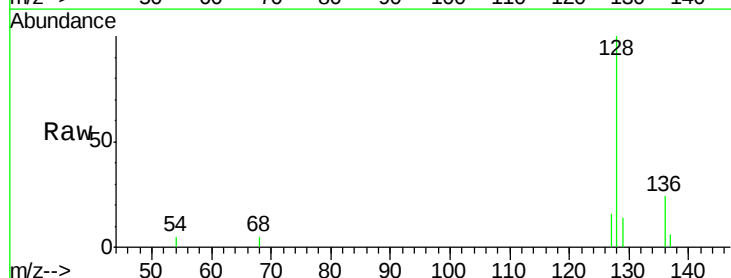
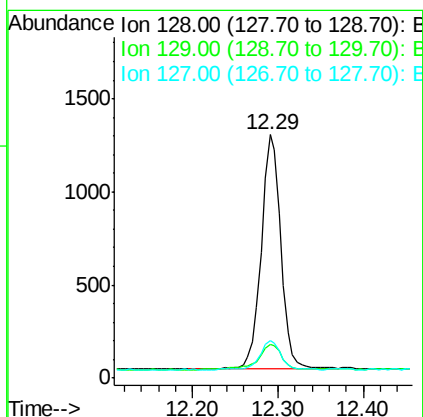
RT: 12.29 min Scan# 2079

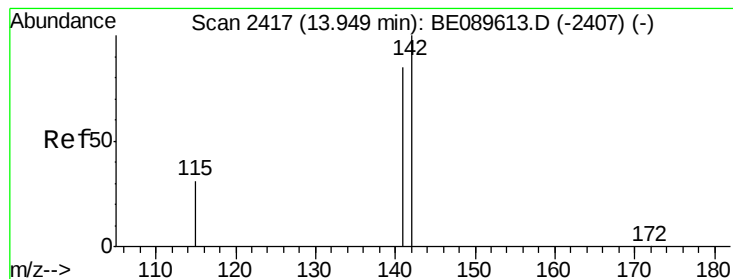
Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Tgt Ion:	128	Resp:	2020
Ion	Ratio	Lower	Upper
128	100		
129	14.0	8.9	13.3#
127	15.5	9.8	14.8#





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

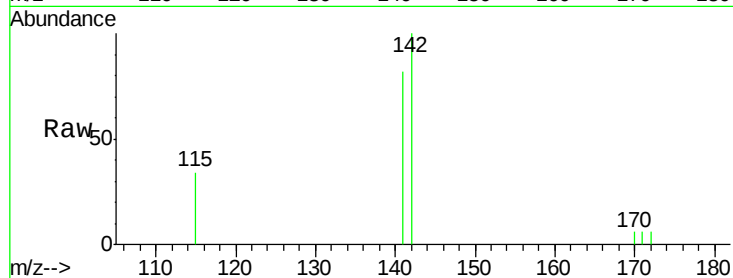
Tgt Ion:142 Resp: 1095

Ion Ratio Lower Upper

142 100

141 82.4 68.3 102.5

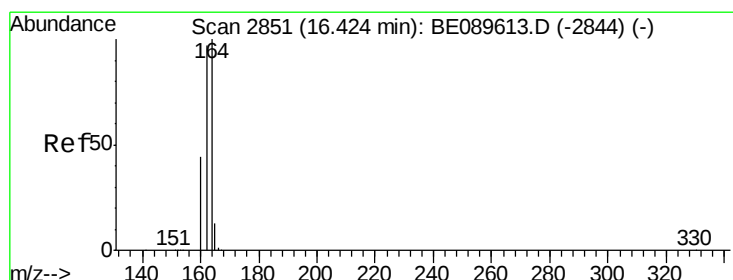
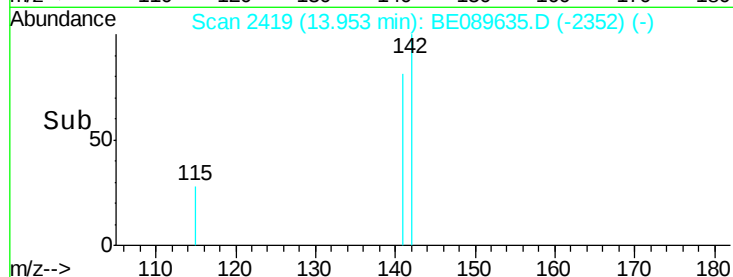
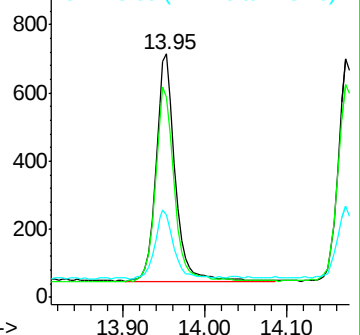
115 33.9 25.1 37.7



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

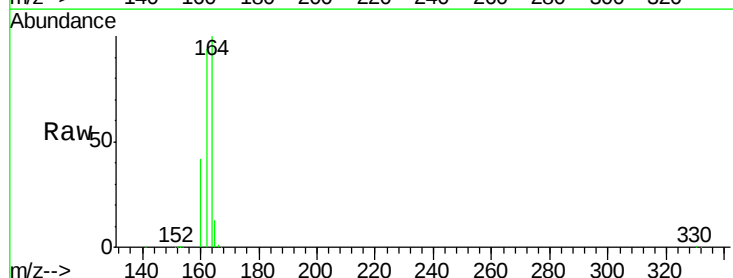
Tgt Ion:164 Resp: 72013

Ion Ratio Lower Upper

164 100

162 94.1 77.5 116.3

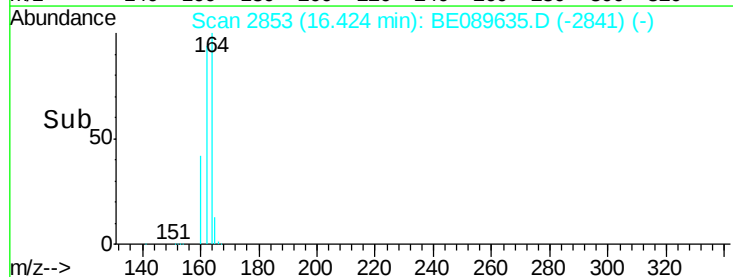
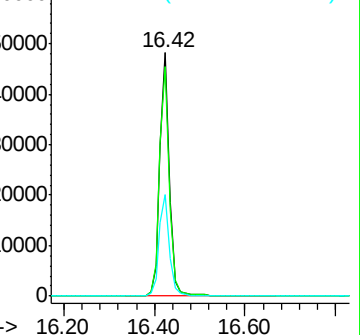
160 41.7 35.5 53.3

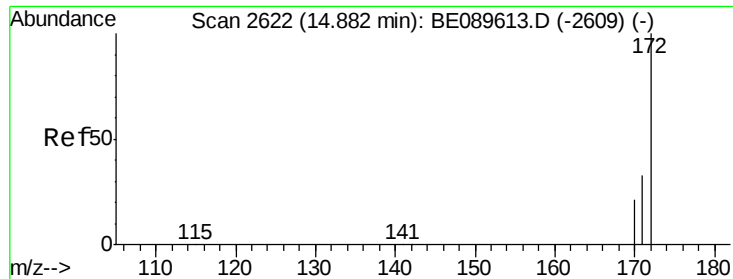


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.23 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089635.D

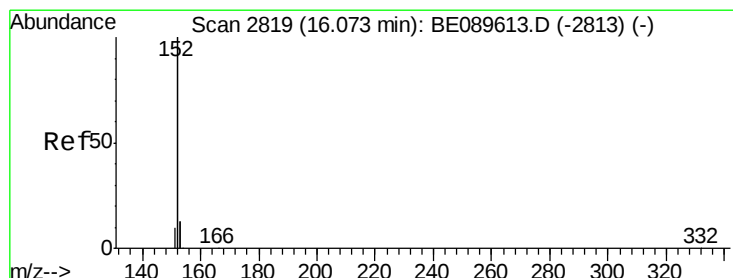
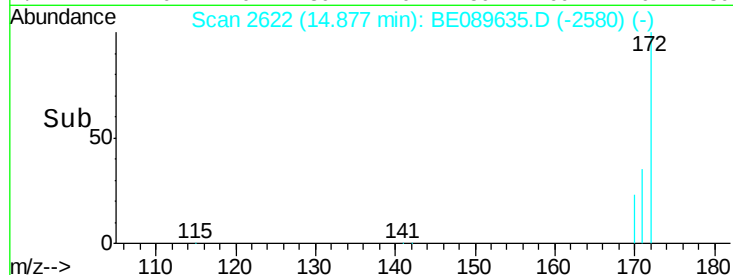
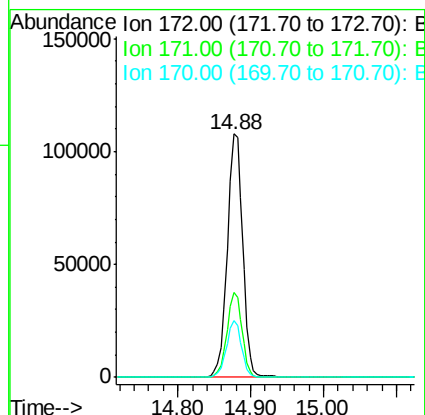
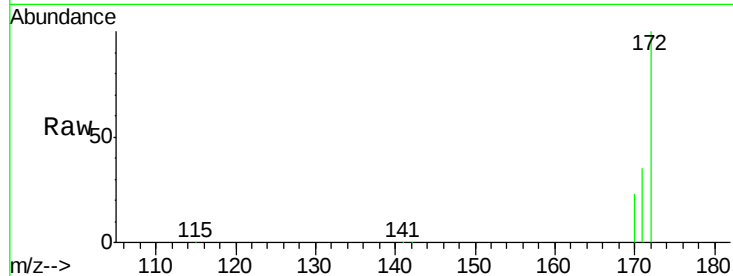
Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	172	Resp:	158803
Ion	Ratio	Lower	Upper
172	100		
171	34.8	26.9	40.3
170	23.2	17.4	26.0



#10

Acenaphthylene

Concen: 0.05 ng

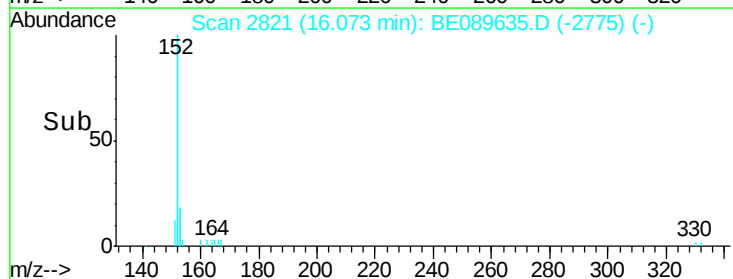
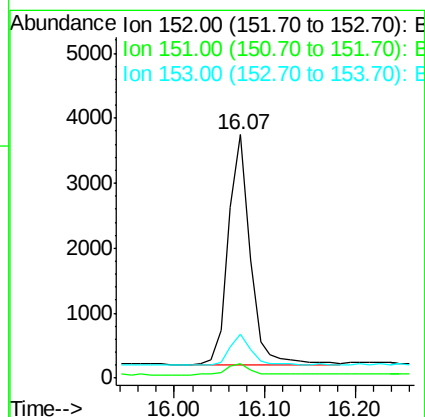
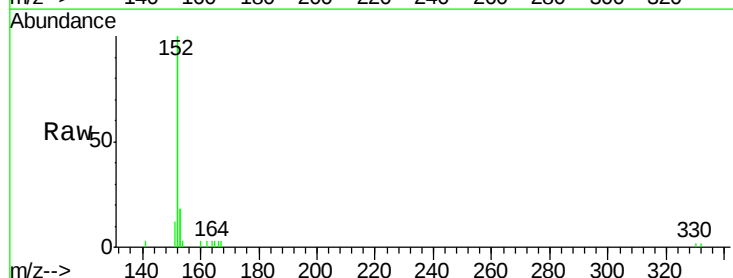
RT: 16.07 min Scan# 2821

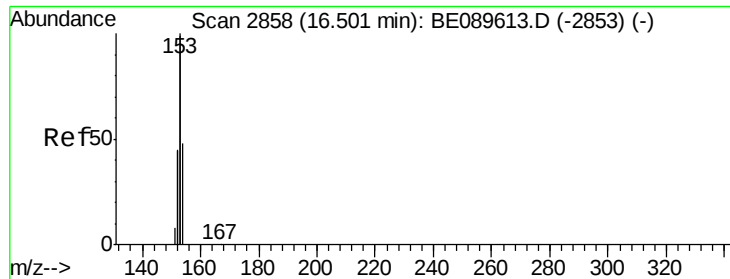
Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Tgt Ion:	152	Resp:	5954
Ion	Ratio	Lower	Upper
152	100		
151	5.0	3.9	5.9
153	13.4	10.5	15.7





#11

Acenaphthene

Concen: 0.06 ng

RT: 16.50 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

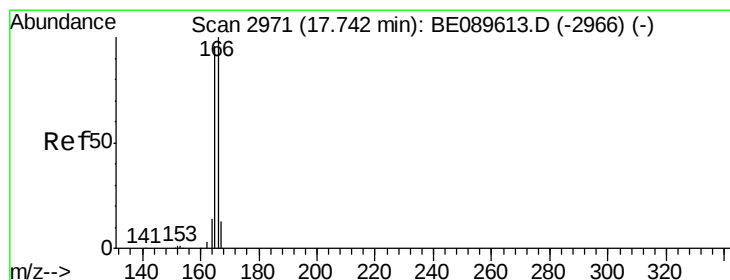
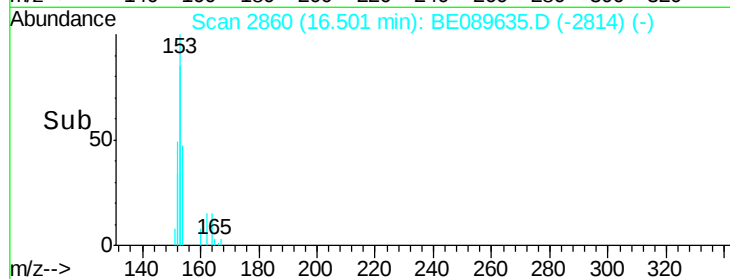
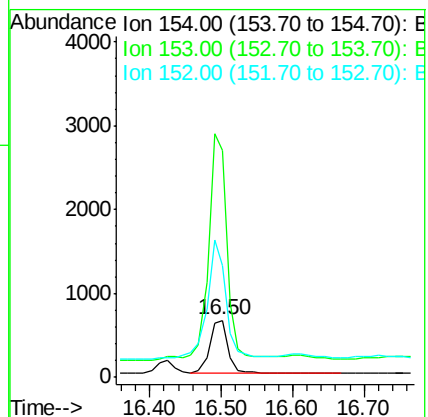
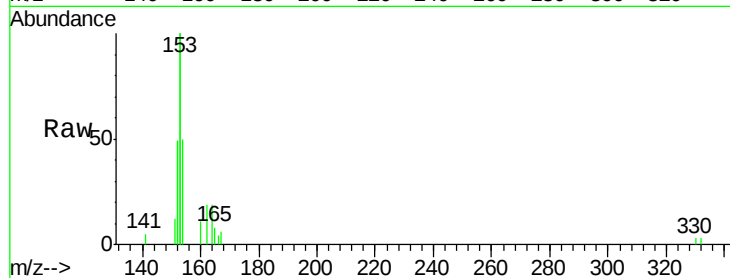
Tgt Ion:154 Resp: 1146

Ion Ratio Lower Upper

154 100

153 438.5 348.9 523.3

152 231.3 166.6 249.8



#12

Fluorene

Concen: 0.06 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

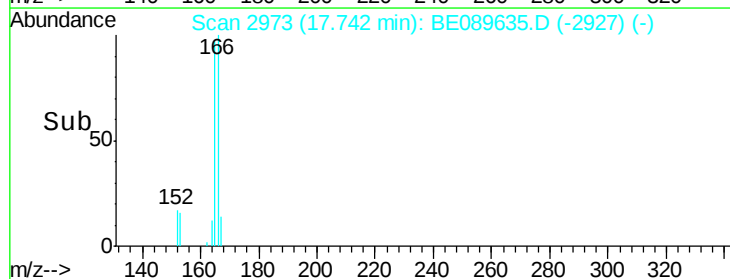
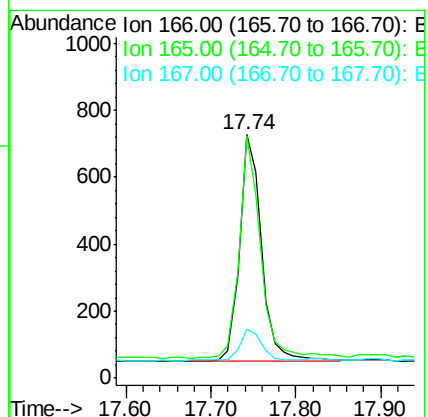
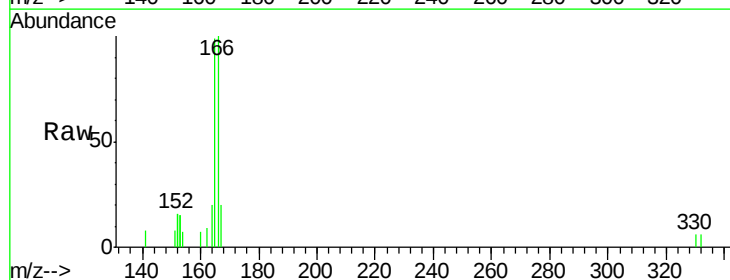
Tgt Ion:166 Resp: 1214

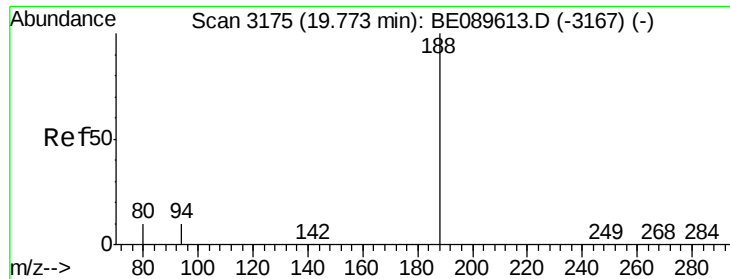
Ion Ratio Lower Upper

166 100

165 94.7 74.7 112.1

167 16.1 10.5 15.7#





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

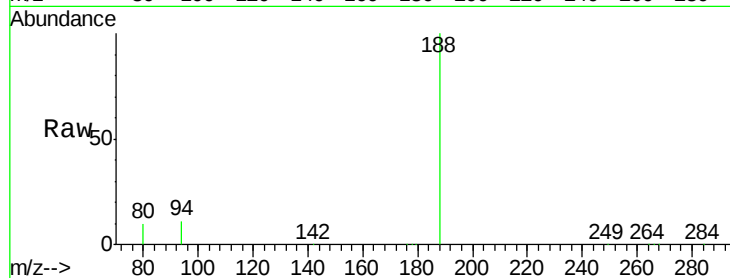
Tgt Ion:188 Resp: 143700

Ion Ratio Lower Upper

188 100

94 10.5 8.2 12.4

80 10.3 8.1 12.1



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

150000

100000

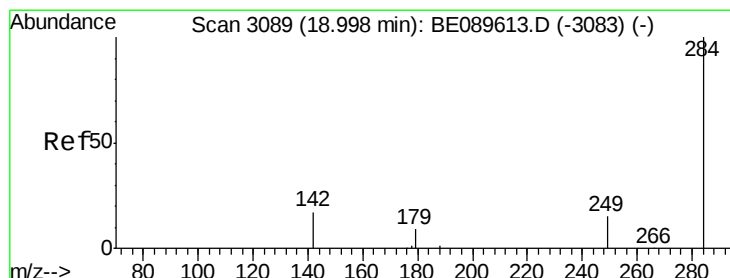
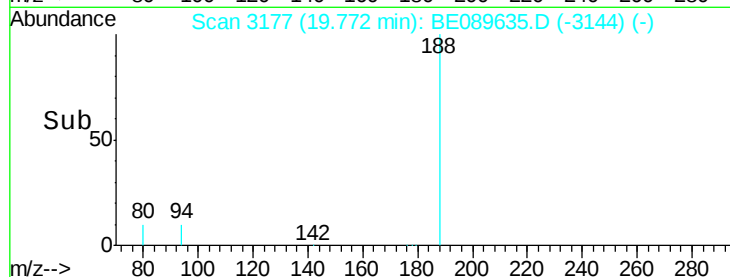
50000

0

19.77

19.70 19.80 19.90

Time-->



#14

Hexachlorobenzene

Concen: 0.07 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

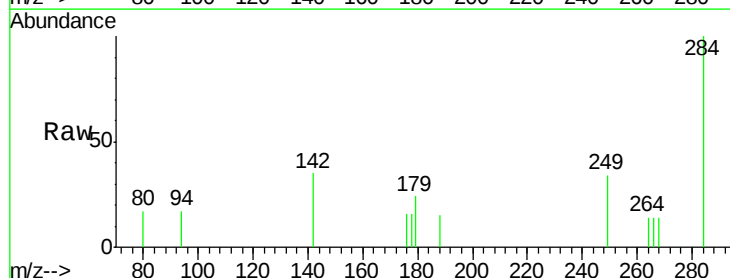
Tgt Ion:284 Resp: 405

Ion Ratio Lower Upper

284 100

142 35.1 32.3 48.5

249 25.7 22.3 33.5



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

400

300

200

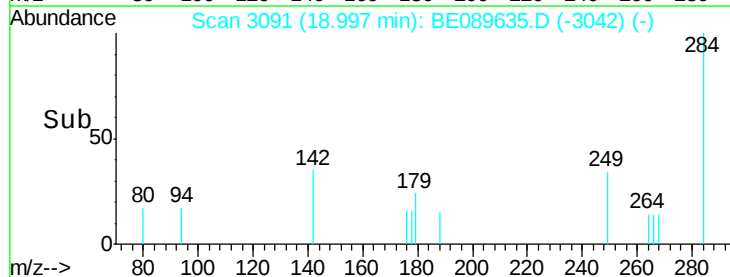
100

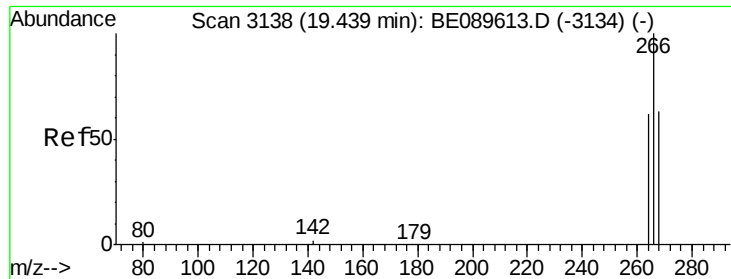
0

19.00

18.90 18.95 19.00 19.05

Time-->

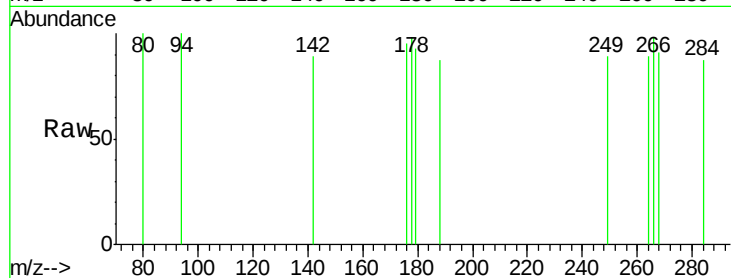




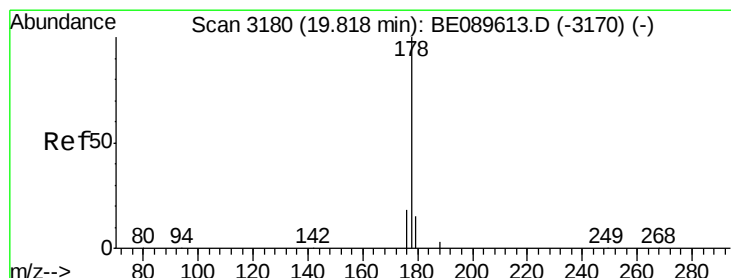
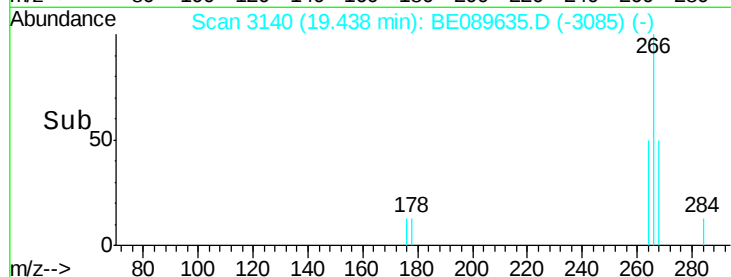
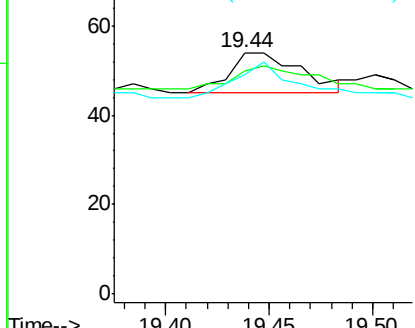
#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.44 min Scan# 3140
 Delta R.T. -0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 266 Resp: 22
 Ion Ratio Lower Upper
 266 100
 268 92.6 52.6 79.0#
 264 90.7 51.8 77.8#

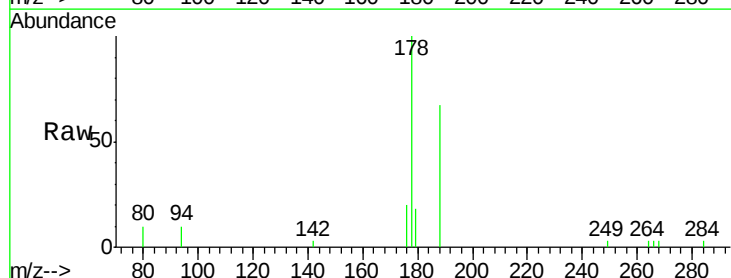


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

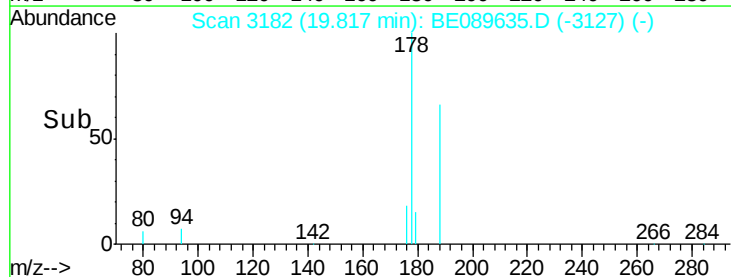
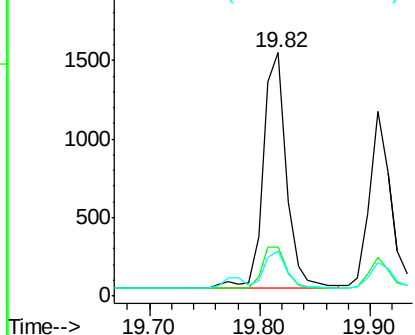


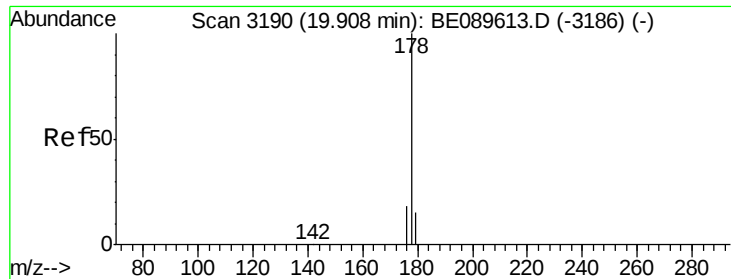
#16
 Phenanthrene
 Concen: 0.06 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Tgt Ion: 178 Resp: 2204
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.1 22.7
 179 14.9 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

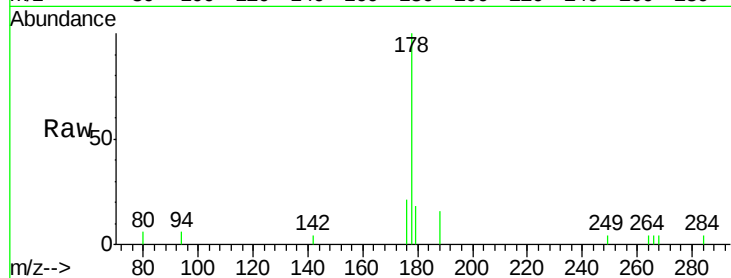




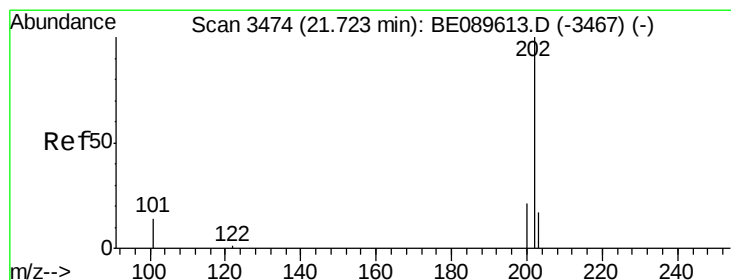
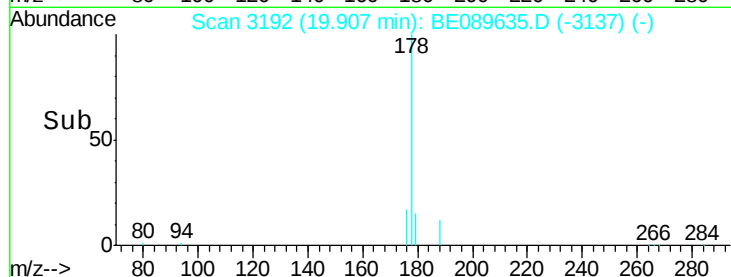
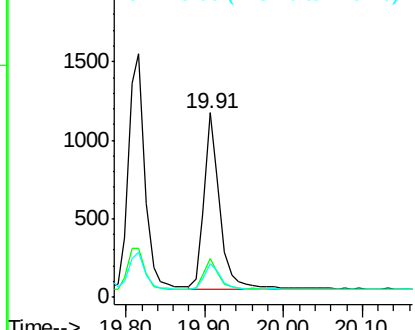
#17
 Anthracene
 Concen: 0.05 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:178 Resp: 1553
 Ion Ratio Lower Upper
 178 100
 176 16.7 14.6 22.0
 179 15.1 12.3 18.5

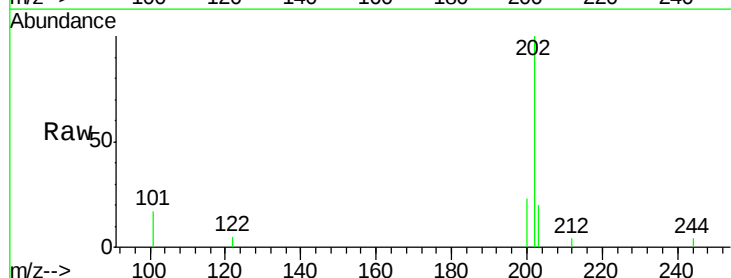


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

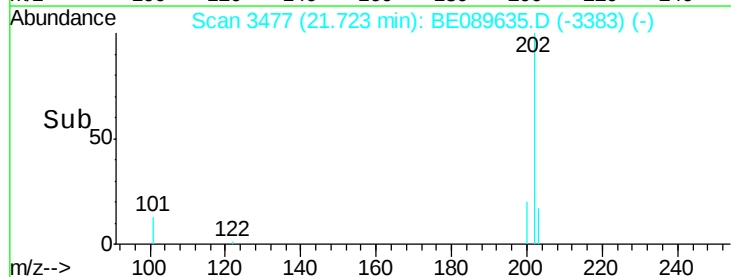
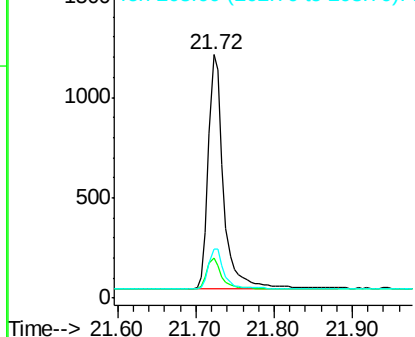


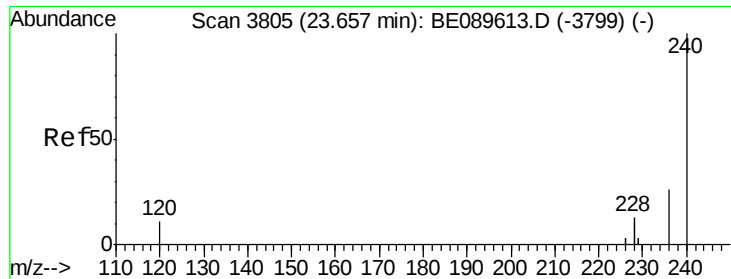
#18
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Tgt Ion:202 Resp: 1595
 Ion Ratio Lower Upper
 202 100
 101 12.8 10.4 15.6
 203 17.0 13.9 20.9



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





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampled :

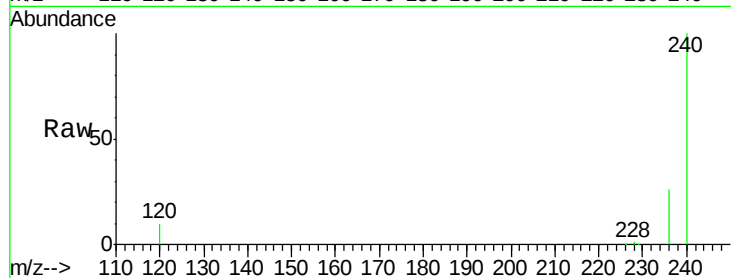
Tgt Ion:240 Resp: 134899

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

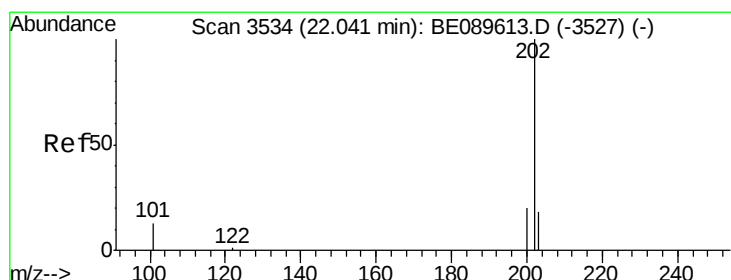
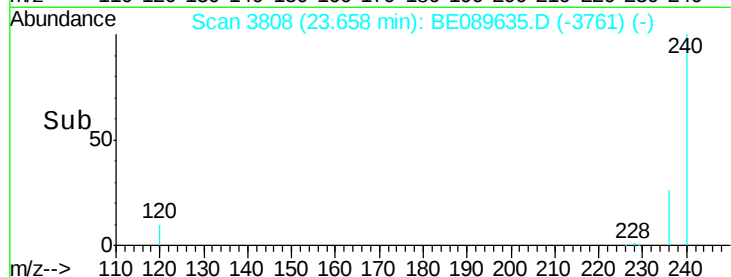
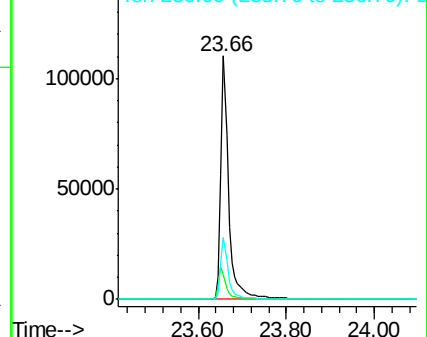
236 25.6 21.0 31.6



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



#20

Pyrene

Concen: 0.05 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

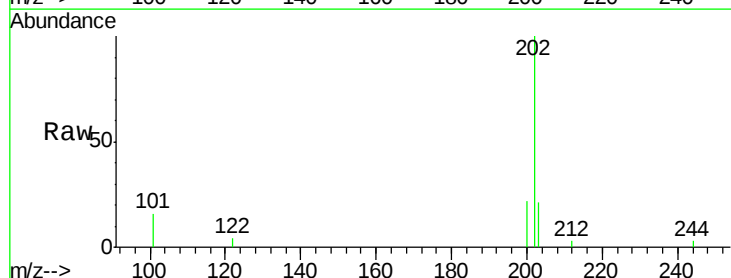
Tgt Ion:202 Resp: 1707

Ion Ratio Lower Upper

202 100

200 20.0 16.3 24.5

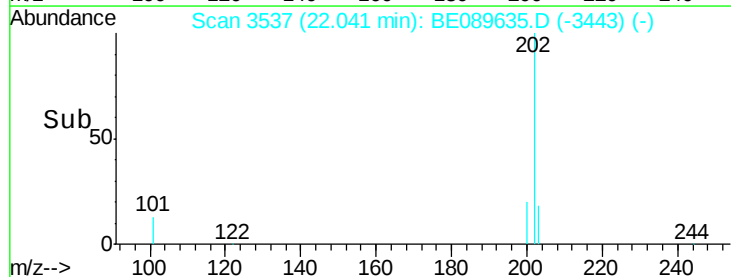
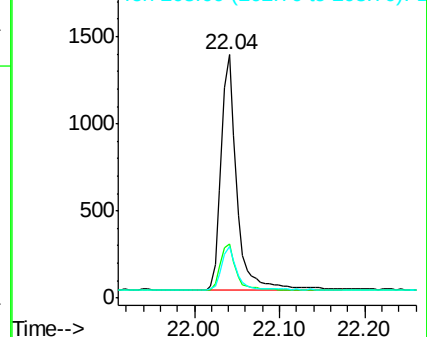
203 17.6 13.8 20.8

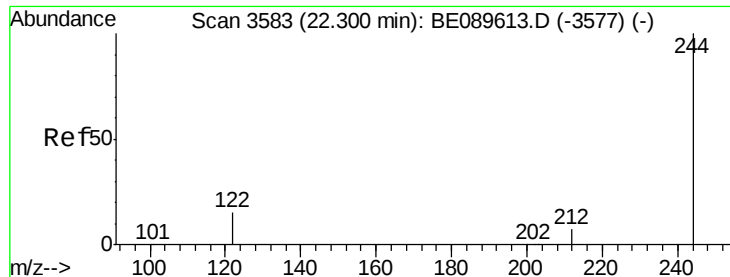


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 10.09 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

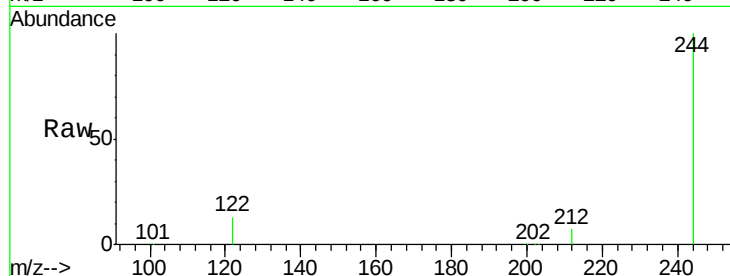
Tgt Ion:244 Resp: 195686

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.8

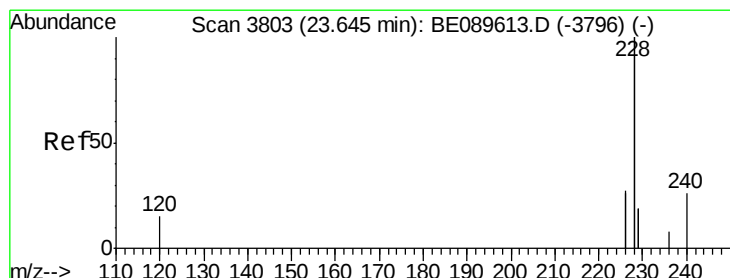
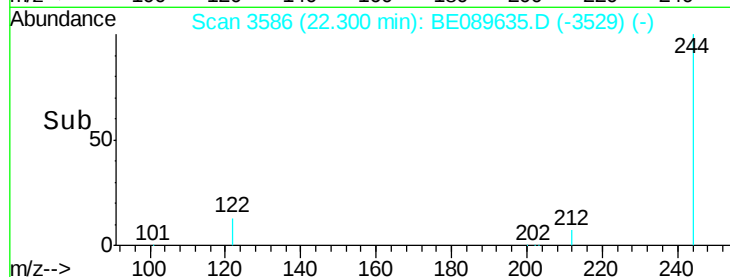
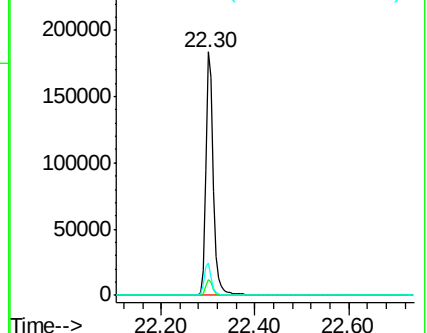
122 13.3 11.8 17.8



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



#22

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

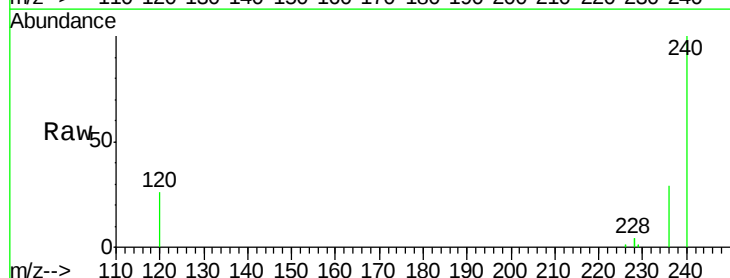
Tgt Ion:228 Resp: 6418

Ion Ratio Lower Upper

228 100

226 25.1 21.2 31.8

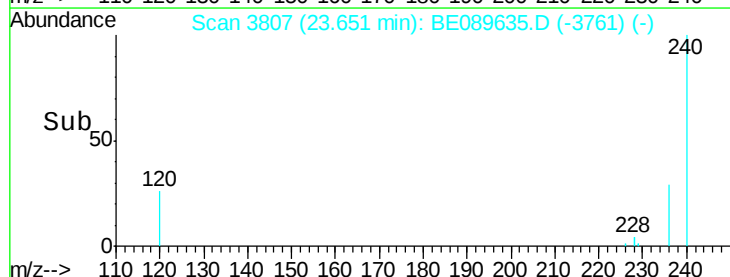
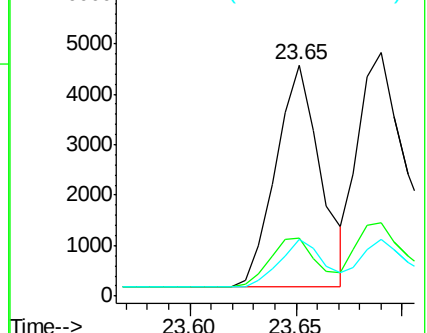
229 24.4 15.2 22.8#

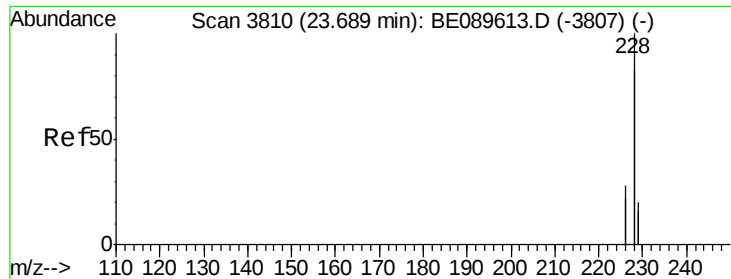


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.07 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

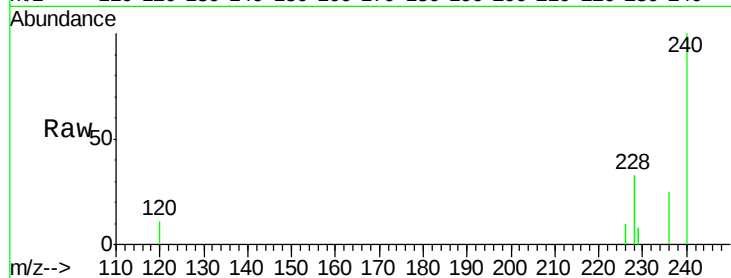
Tgt Ion:228 Resp: 9564

Ion Ratio Lower Upper

228 100

226 30.1 22.2 33.4

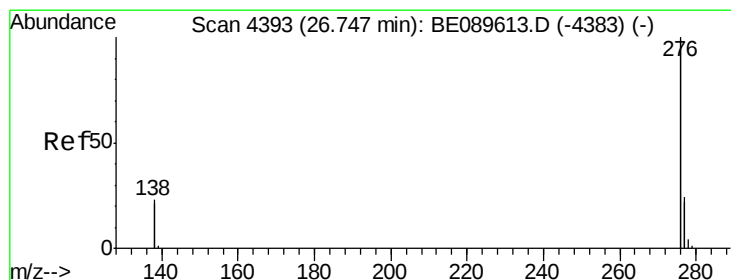
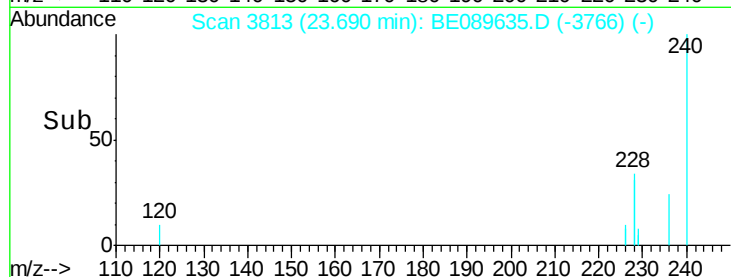
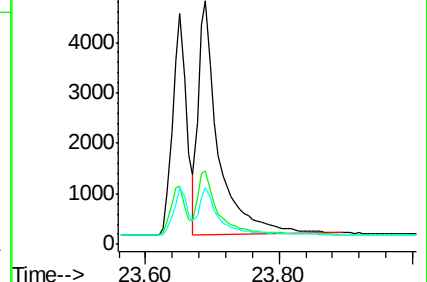
229 23.1 16.0 24.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.19 ng

RT: 26.75 min Scan# 4396

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

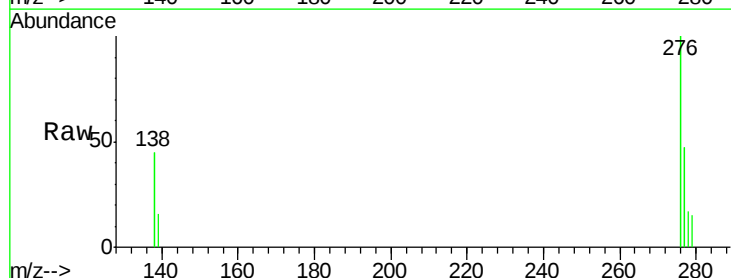
Tgt Ion:276 Resp: 2008

Ion Ratio Lower Upper

276 100

138 24.7 21.4 32.2

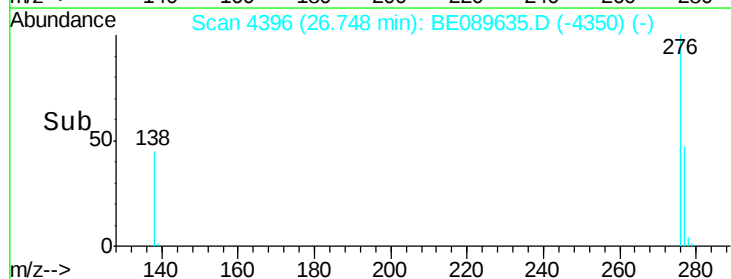
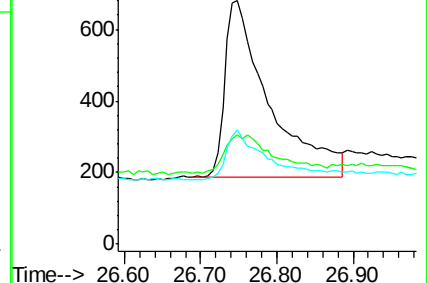
277 27.7 19.9 29.9

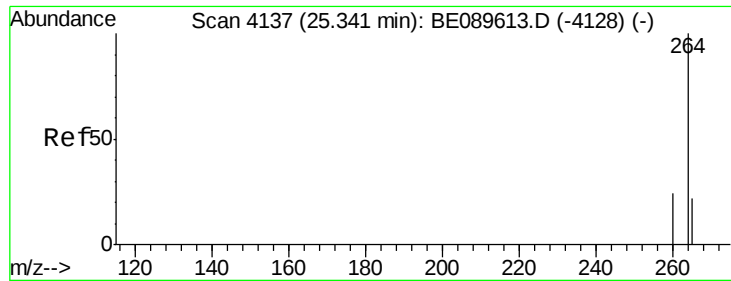


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

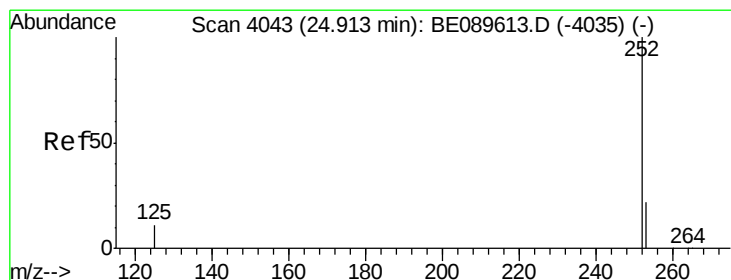
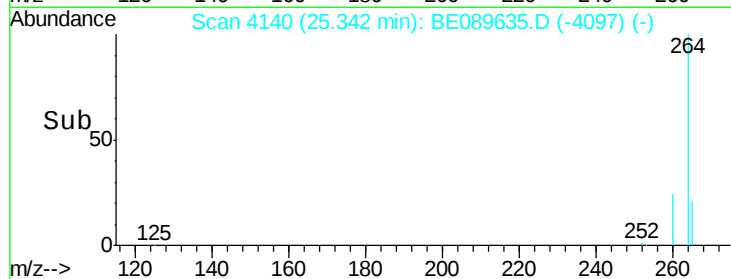
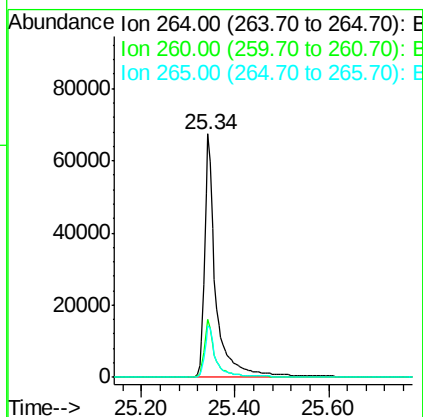
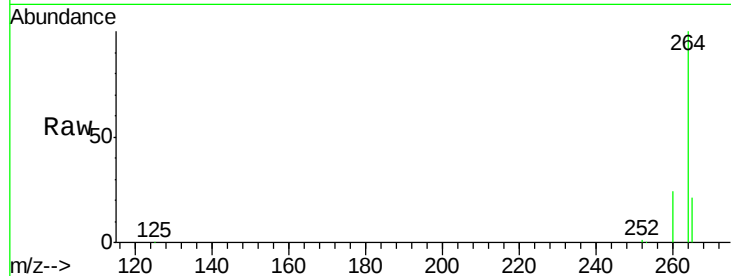




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

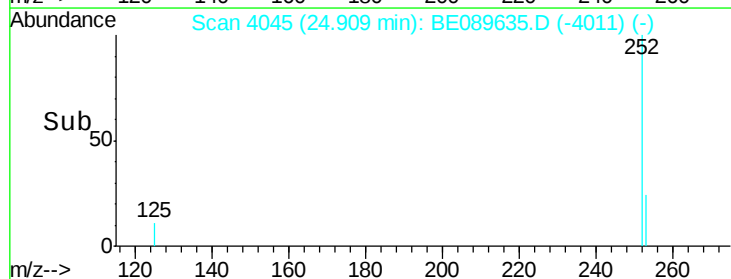
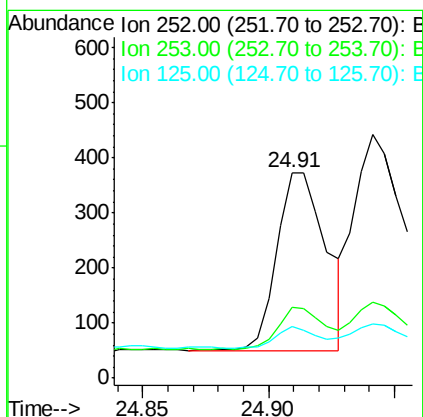
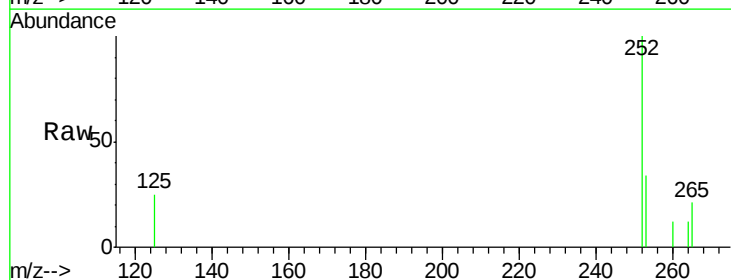
Instrument :
 BNA_E
 ClientSampleId :

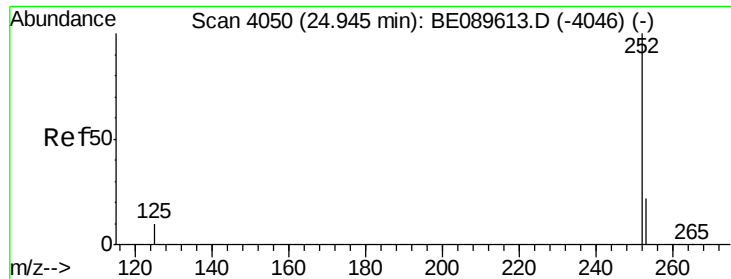
Tgt Ion: 264 Resp: 112790
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.0 28.6
 265 21.4 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. -0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 13:19

Tgt Ion: 252 Resp: 438
 Ion Ratio Lower Upper
 252 100
 253 34.3 17.6 26.4#
 125 24.9 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

Instrument :

BNA_E

ClientSampleId :

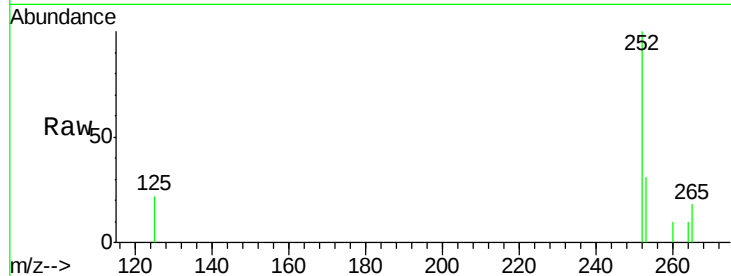
Tgt Ion:252 Resp: 783

Ion Ratio Lower Upper

252 100

253 31.0 17.7 26.5#

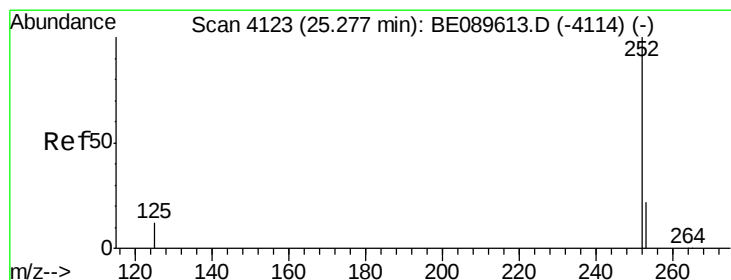
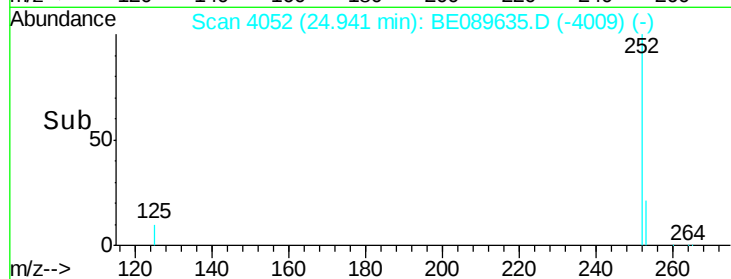
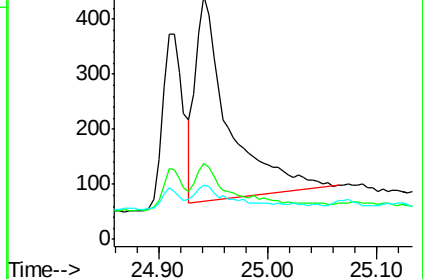
125 22.4 8.8 13.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 13:19

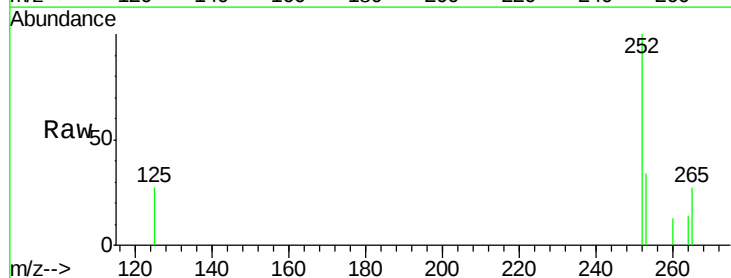
Tgt Ion:252 Resp: 460

Ion Ratio Lower Upper

252 100

253 34.1 18.1 27.1#

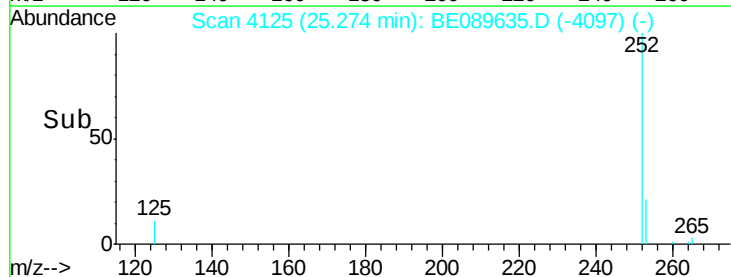
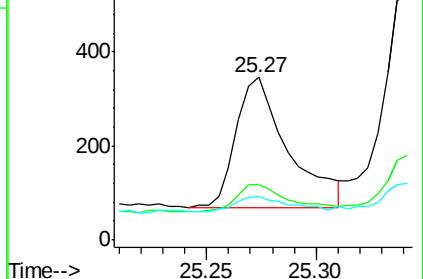
125 26.9 9.6 14.4#

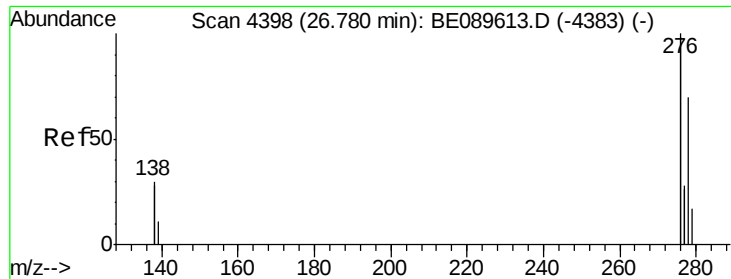


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

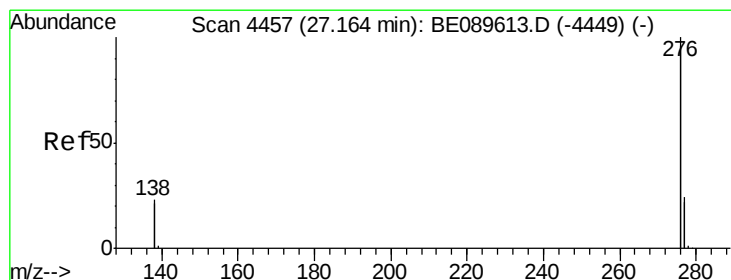
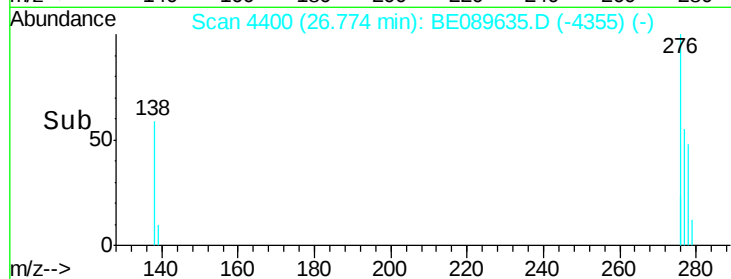
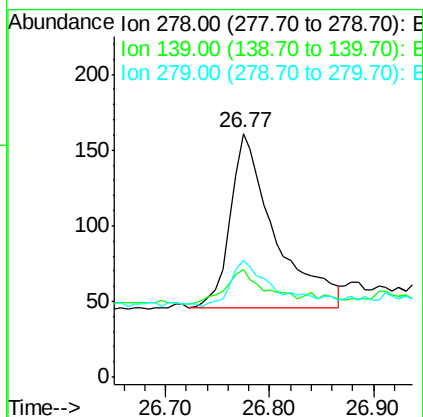
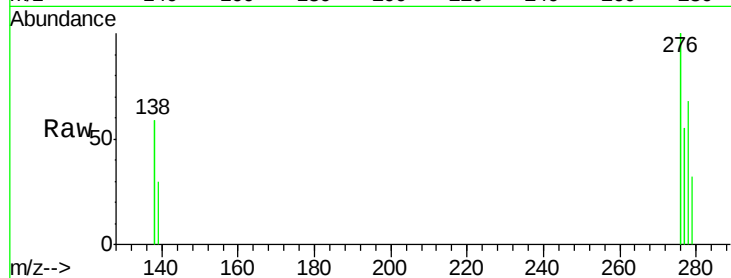




#29
Dibenzo(a,h)anthracene
Concen: 0.24 ng
RT: 26.77 min Scan# 4400
Delta R.T. -0.00 min
Lab File: BE089635.D
Acq: 19 Feb 2015 13:19

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 278 Resp: 340
Ion Ratio Lower Upper
278 100
139 44.1 13.7 20.5#
279 47.8 19.7 29.5#



#30
Benzo(g,h,i)perylene
Concen: 0.16 ng
RT: 27.17 min Scan# 4460
Delta R.T. 0.00 min
Lab File: BE089635.D
Acq: 19 Feb 2015 13:19

Tgt Ion: 276 Resp: 2746
Ion Ratio Lower Upper
276 100
277 39.6 19.1 28.7#
138 39.4 18.7 28.1#

