

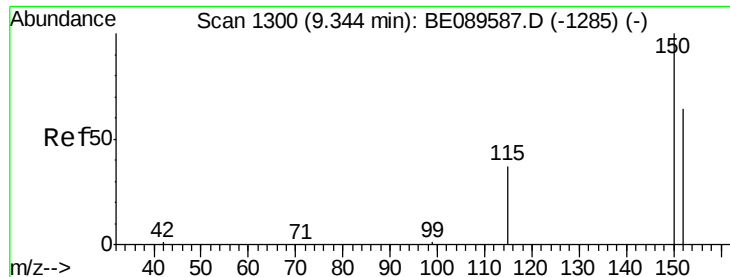
Data Path : Z:\HPCHEM1\BNA E\DATA\BE021715\
 Data File : BE089591.D
 Acq On : 17 Feb 2015 6:13
 Operator : TP/IZ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 17 10:55:45 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 17 10:44:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	40129	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	180452	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	89757	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	157178	5.00	ng	0.00
19) Chrysene-d12	23.66	240	127062	5.00	ng	0.00
25) Perylene-d12	25.34	264	107569	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	764	0.09	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	3423	0.12	ng	0.00
21) Terphenyl-d14	22.31	244	2999	0.13	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.68	88	601	0.11	ng	# 91
3) n-Nitrosodimethylamine	3.34	42	20	0.00	ng	# 1
6) Naphthalene	12.30	128	5343	0.12	ng	97
7) 2-Methylnaphthalene	13.95	142	3281	0.11	ng	99
10) Acenaphthylene	16.07	152	18184	0.11	ng	99
11) Acenaphthene	16.50	154	3328	0.12	ng	92
12) Fluorene	17.74	166	3522	0.11	ng	99
14) Hexachlorobenzene	19.00	284	1008	0.11	ng	# 90
15) Pentachlorophenol	19.45	266	400	0.15	ng	# 92
16) Phenanthrene	19.82	178	5795	0.12	ng	97
17) Anthracene	19.91	178	3900	0.10	ng	100
18) Fluoranthene	21.73	202	4192	0.11	ng	99
20) Pyrene	22.04	202	4381	0.11	ng	99
22) Benzo(a)anthracene	23.65	228	14829	0.11	ng	94
23) Chrysene	23.69	228	19429	0.13	ng	99
24) Indeno(1,2,3-cd)pyrene	26.75	276	8867	0.08	ng	91
26) Benzo(b)fluoranthene	24.91	252	1648	0.08	ng	# 91
27) Benzo(k)fluoranthene	24.95	252	3116	0.09	ng	# 93
28) Benzo(a)pyrene	25.27	252	1660	0.08	ng	# 90
29) Dibenzo(a,h)anthracene	26.77	278	1377	0.06	ng	# 83
30) Benzo(g,h,i)perylene	27.16	276	9023	0.09	ng	# 89

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

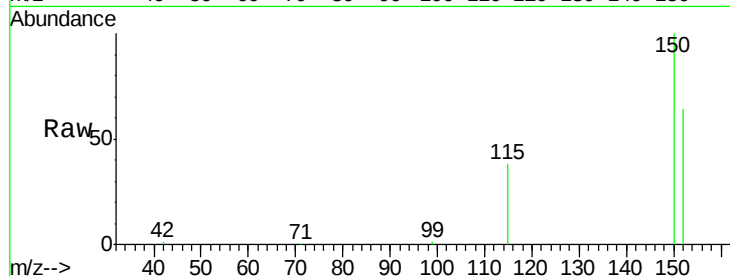
Tot Ion:152 Resp: 40129

Ion Ratio Lower Upper

152 100

150 157.5 125.3 187.9

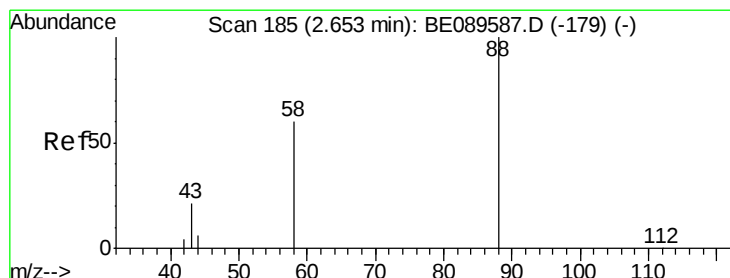
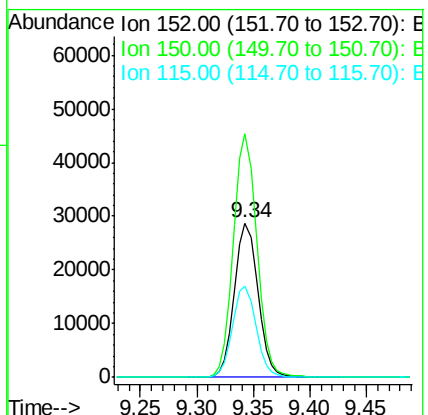
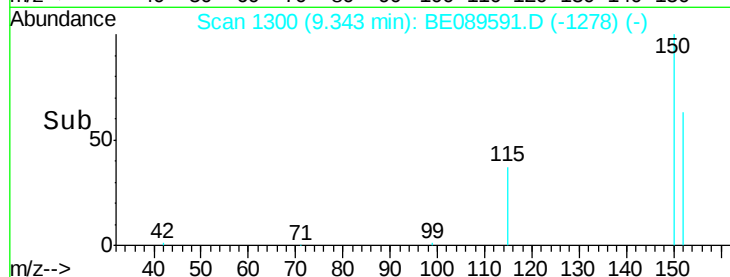
115 59.2 47.0 70.4



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

1,4-Dioxane

Concen: 0.11 ng

RT: 2.68 min Scan# 189

Delta R.T. 0.03 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

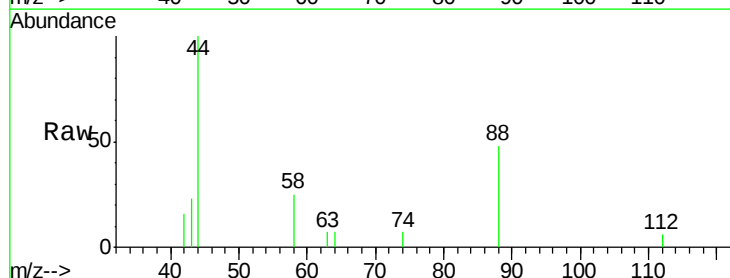
Tgt Ion: 88 Resp: 601

Ion Ratio Lower Upper

88 100

58 71.9 53.0 79.4

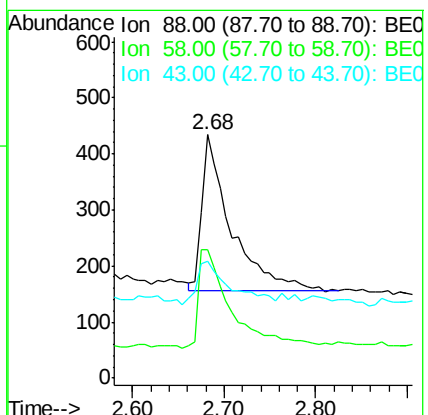
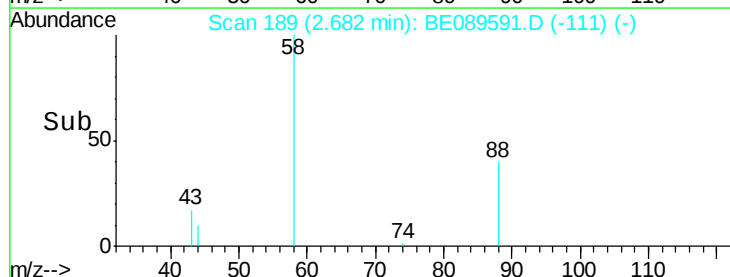
43 32.3 19.9 29.9#

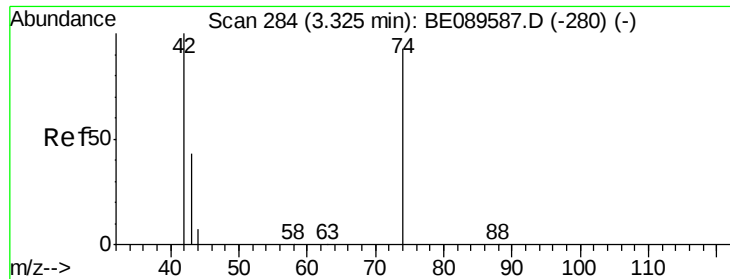


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



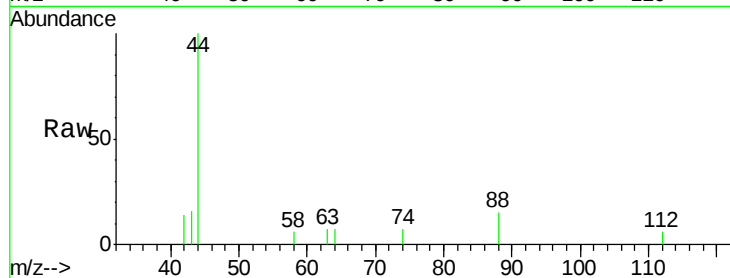


#3

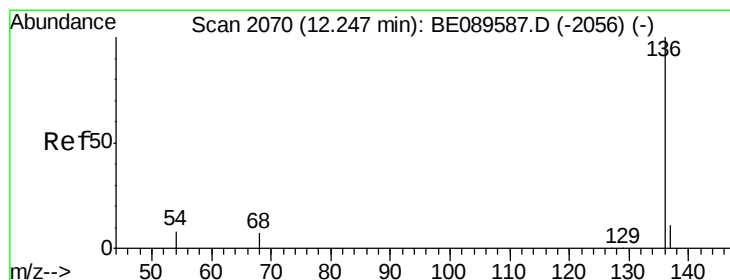
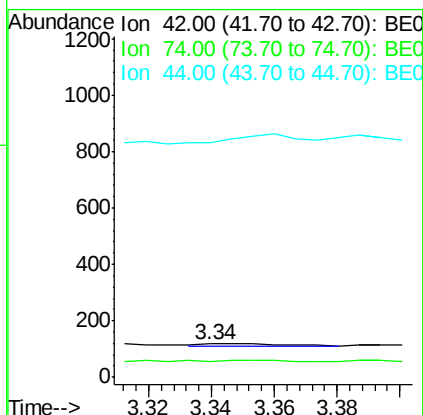
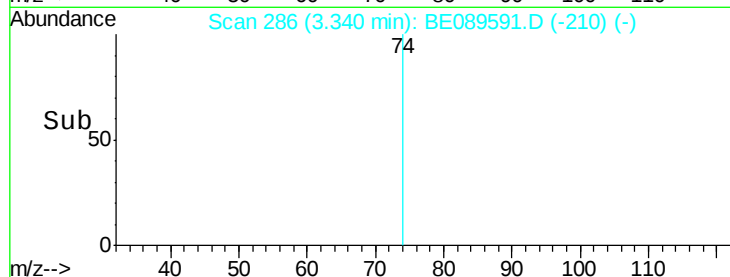
n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.34 min Scan# 286
 Delta R.T. 0.01 min
 Lab File: BE089591.D
 Acq: 17 Feb 2015 6:13

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 20
 Ion Ratio Lower Upper
 42 100
 74 0.0 114.2 171.4#
 44 0.0 3.6 5.4#



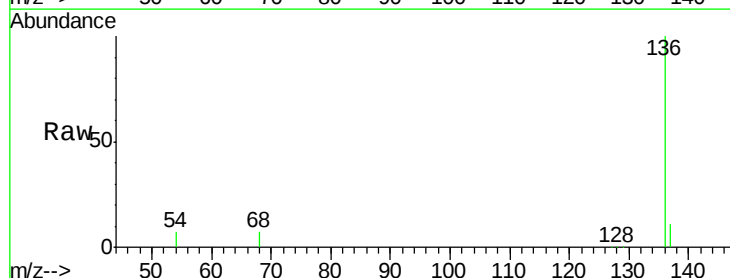
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



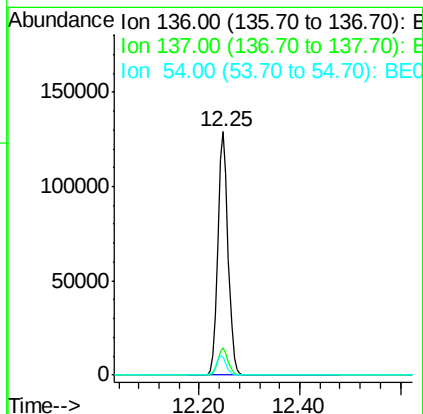
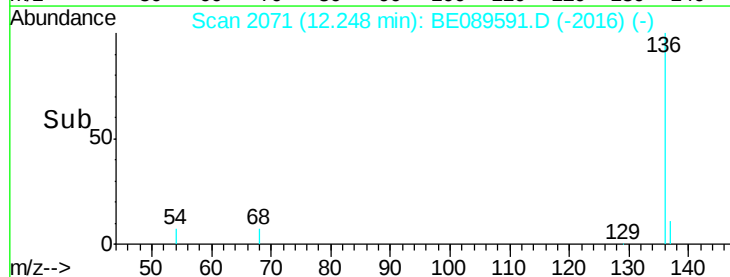
#4

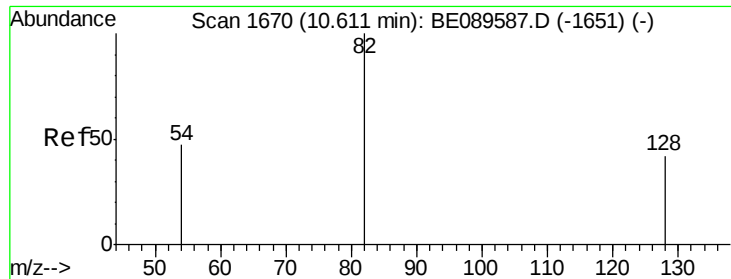
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: BE089591.D
 Acq: 17 Feb 2015 6:13

Tgt Ion: 136 Resp: 180452
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 7.5 6.2 9.2



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: 0.09 ng

RT: 10.61 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

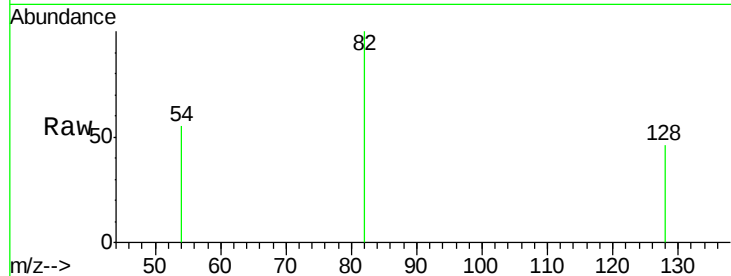
Tot Ion: 82 Resp: 764

Ion Ratio Lower Upper

82 100

128 46.3 34.2 51.2

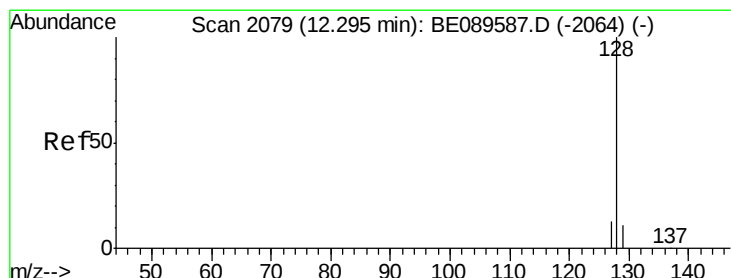
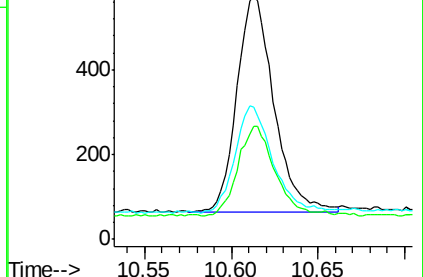
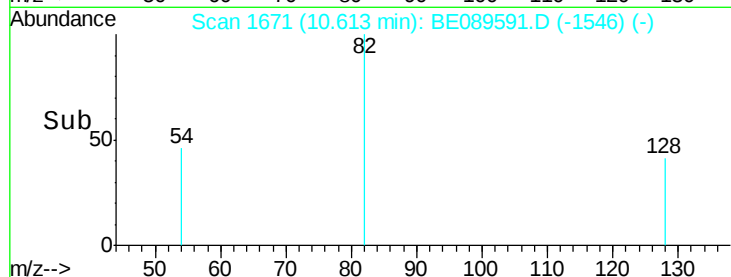
54 54.5 38.4 57.6



Abundance Ion 82.00 (81.70 to 82.70): BE089587.D (-1651) (-)

Ion 128.00 (127.70 to 128.70): BE089587.D (-1651) (-)

Ion 54.00 (53.70 to 54.70): BE089587.D (-1651) (-)



#6

Naphthalene

Concen: 0.12 ng

RT: 12.30 min Scan# 2080

Delta R.T. 0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

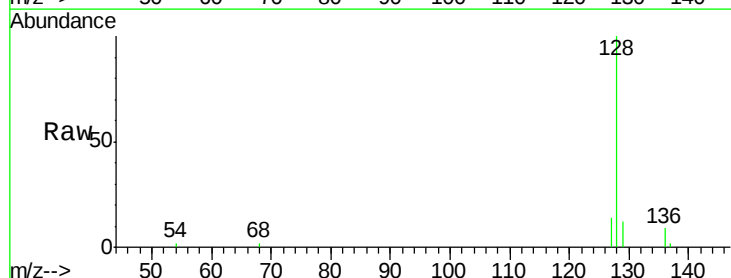
Tgt Ion: 128 Resp: 5343

Ion Ratio Lower Upper

128 100

129 12.0 8.7 13.1

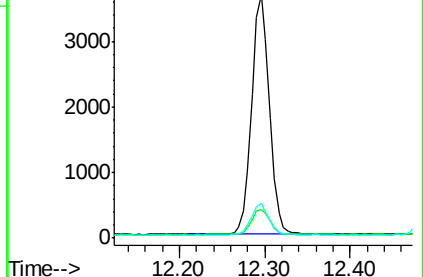
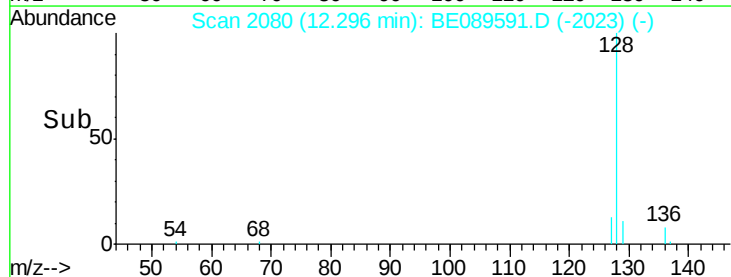
127 14.1 10.2 15.4

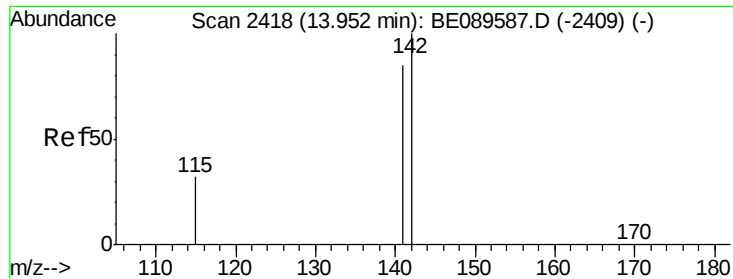


Abundance Ion 128.00 (127.70 to 128.70): BE089587.D (-2064) (-)

Ion 129.00 (128.70 to 129.70): BE089587.D (-2064) (-)

Ion 127.00 (126.70 to 127.70): BE089587.D (-2064) (-)





#7

2-Methylnaphthalene

Concen: 0.11 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

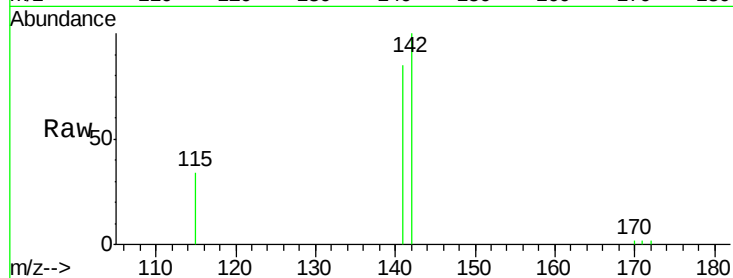
Tot Ion:142 Resp: 3281

Ion Ratio Lower Upper

142 100

141 84.7 68.1 102.1

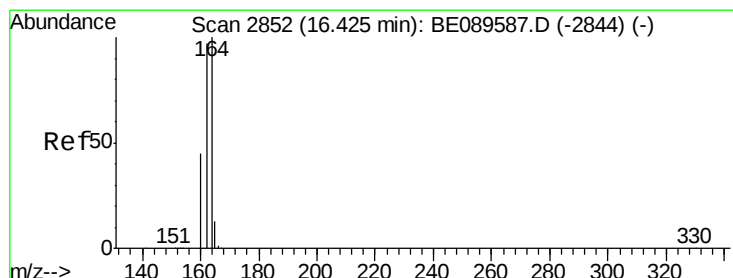
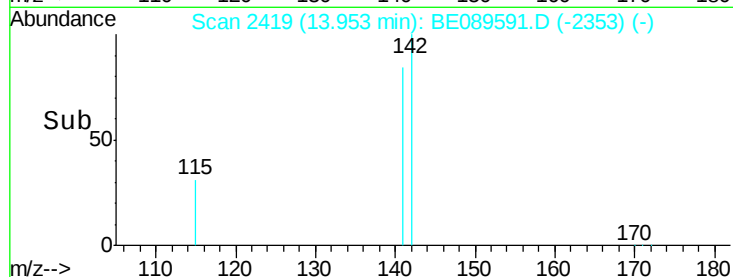
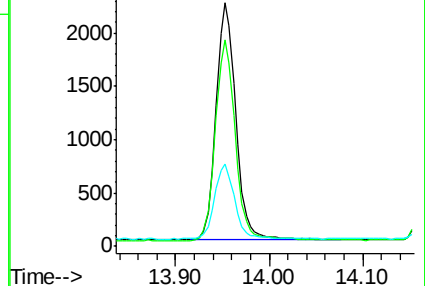
115 33.9 25.8 38.8



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: BE089591.D

Acq: 17 Feb 2015 6:13

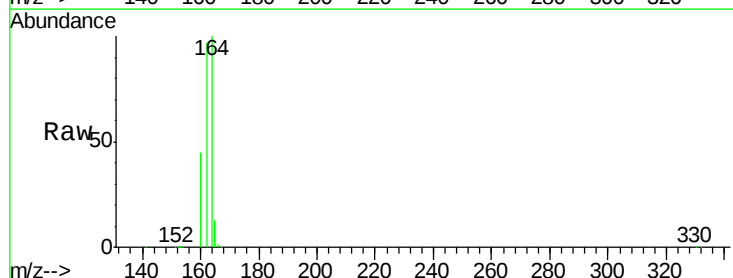
Tgt Ion:164 Resp: 89757

Ion Ratio Lower Upper

164 100

162 97.2 77.8 116.8

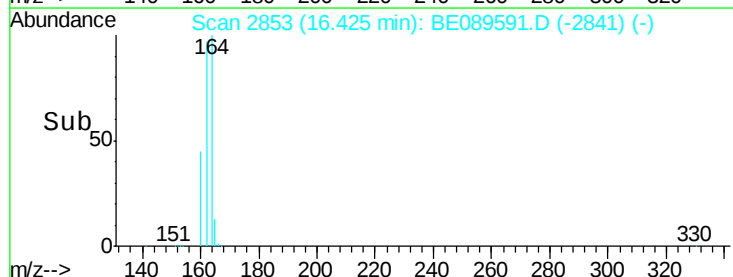
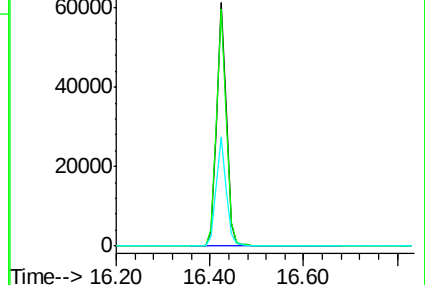
160 44.7 35.8 53.6

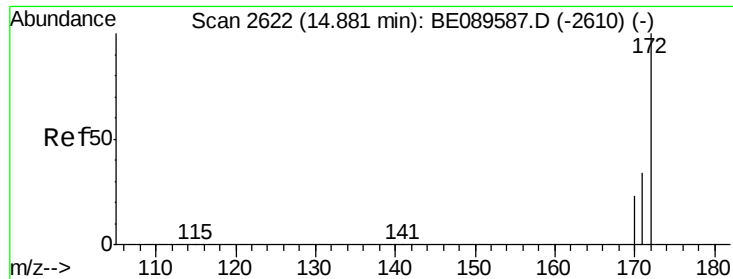


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.12 ng

RT: 14.88 min Scan# 2623

Delta R.T. 0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

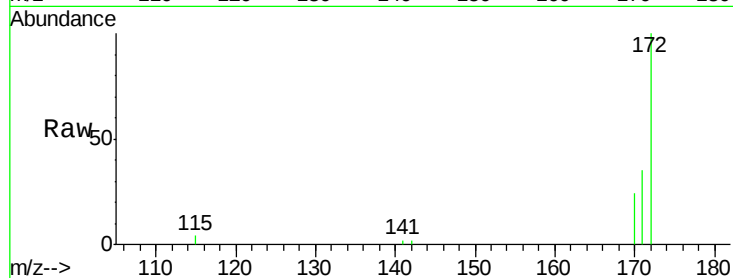
Tot Ion:172 Resp: 3423

Ion Ratio Lower Upper

172 100

171 35.5 27.4 41.0

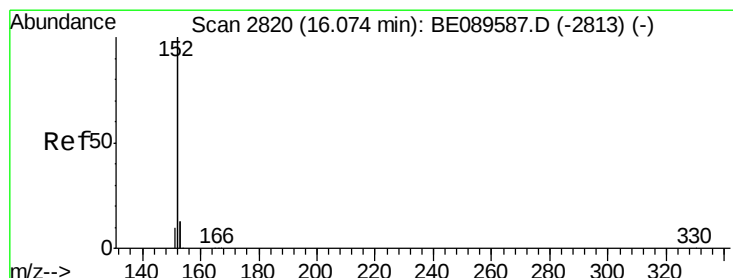
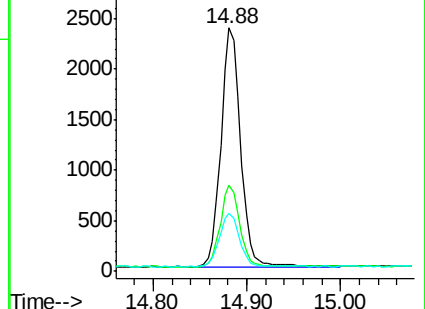
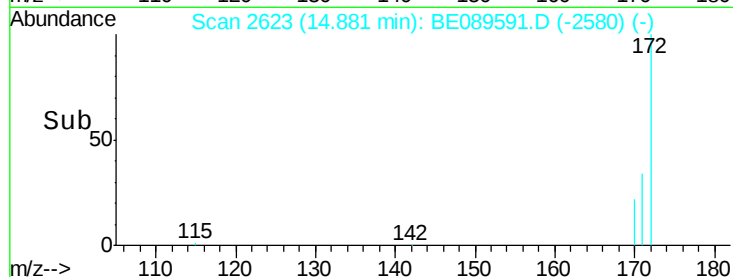
170 24.0 18.6 27.8



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



#10

Acenaphthylene

Concen: 0.11 ng

RT: 16.07 min Scan# 2821

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

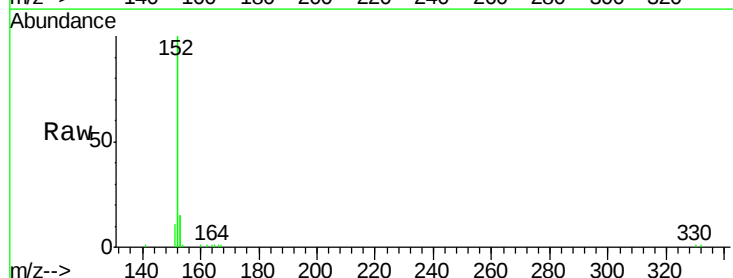
Tgt Ion:152 Resp: 18184

Ion Ratio Lower Upper

152 100

151 5.1 3.8 5.8

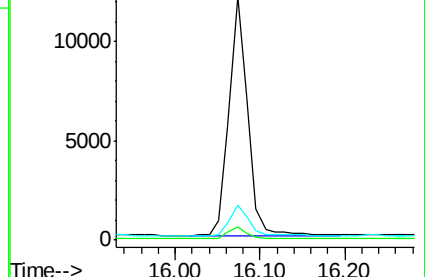
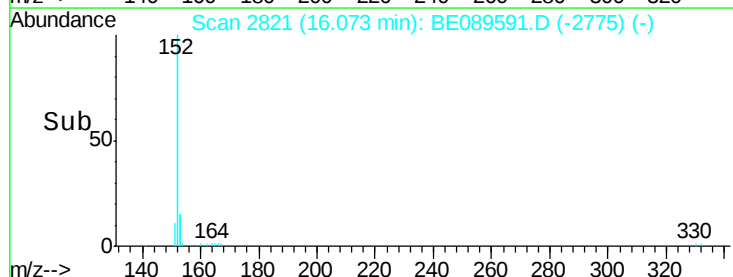
153 13.3 10.4 15.6

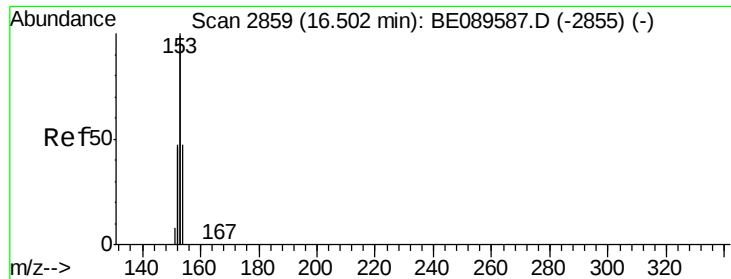


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.12 ng

RT: 16.50 min Scan# 2860

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

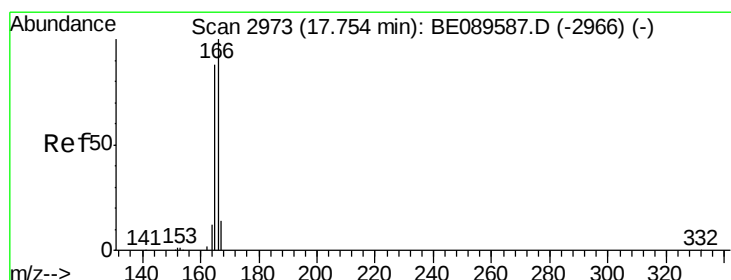
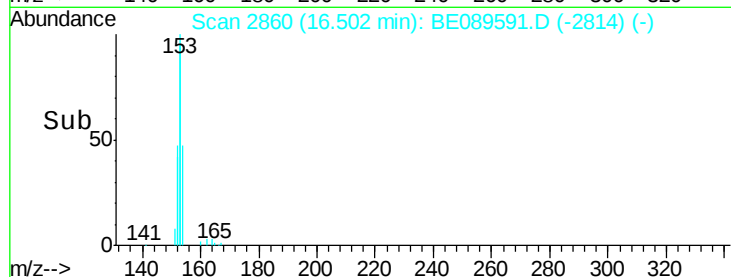
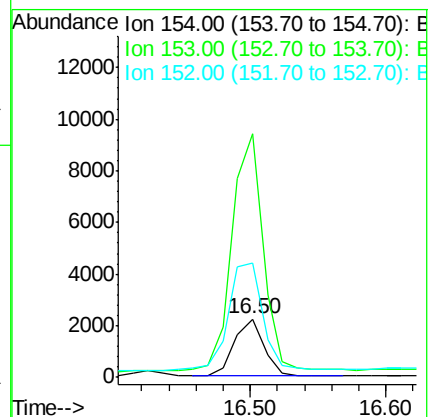
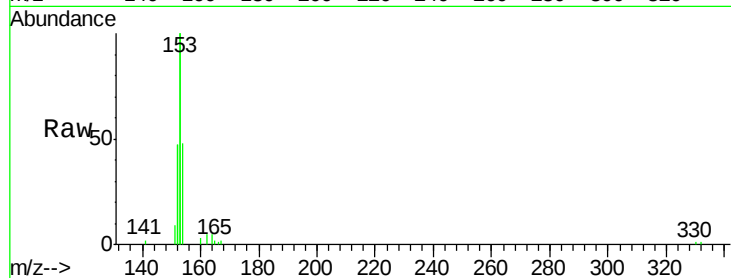
Tot Ion:154 Resp: 3328

Ion Ratio Lower Upper

154 100

153 448.6 346.6 519.8

152 229.6 169.0 253.6



#12

Fluorene

Concen: 0.11 ng

RT: 17.74 min Scan# 2973

Delta R.T. -0.01 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

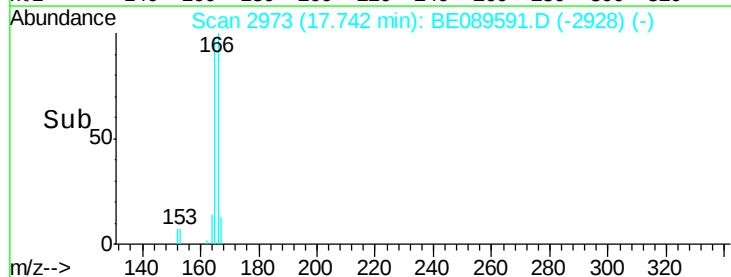
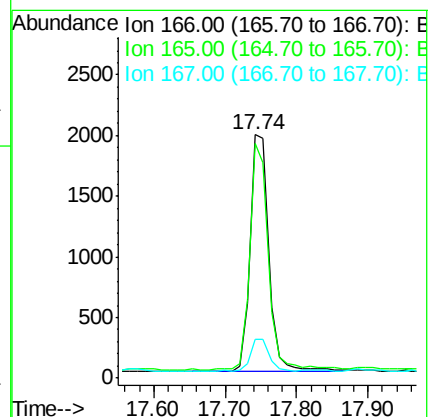
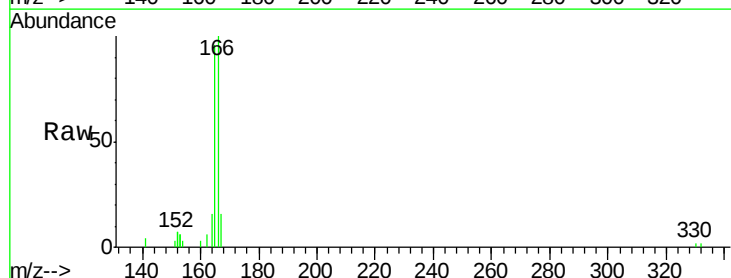
Tgt Ion:166 Resp: 3522

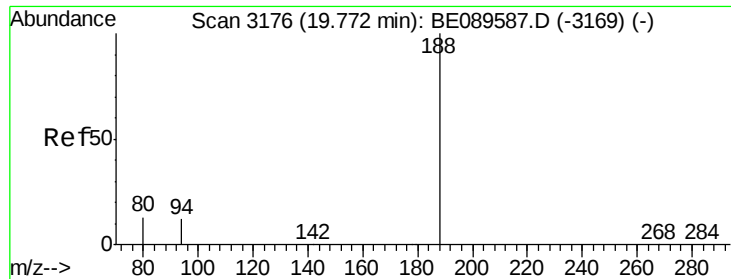
Ion Ratio Lower Upper

166 100

165 93.4 73.8 110.6

167 13.9 10.6 15.8





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

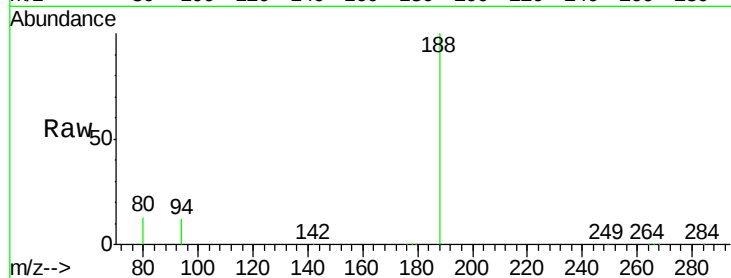
Tot Ion:188 Resp: 157178

Ion Ratio Lower Upper

188 100

94 12.2 9.8 14.8

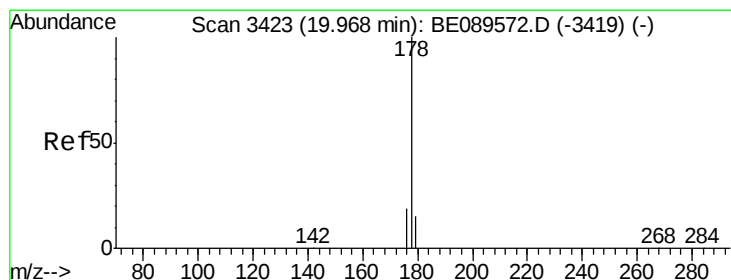
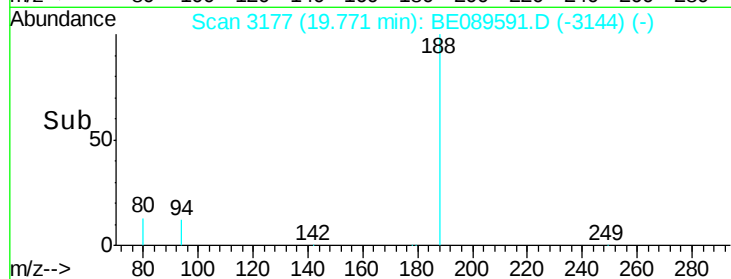
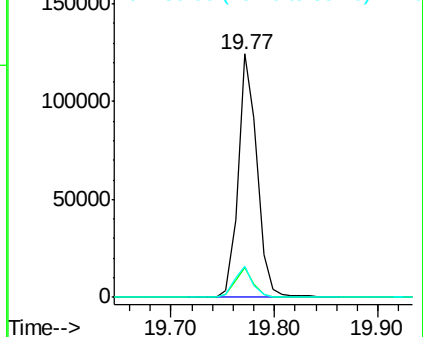
80 12.6 10.2 15.4



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



#14

Hexachlorobenzene

Concen: 0.11 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

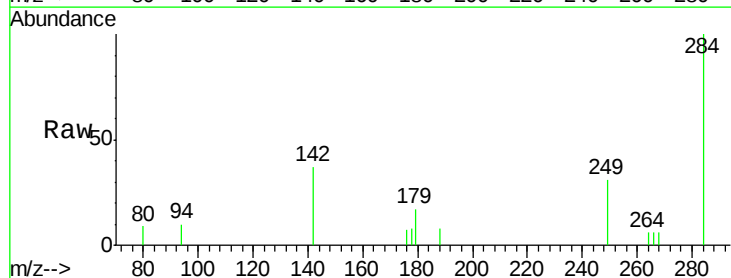
Tgt Ion:284 Resp: 1008

Ion Ratio Lower Upper

284 100

142 51.7 33.1 49.7#

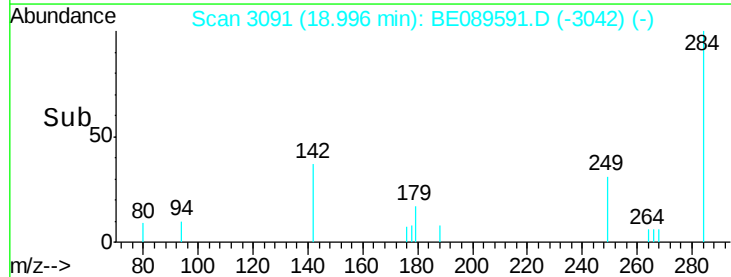
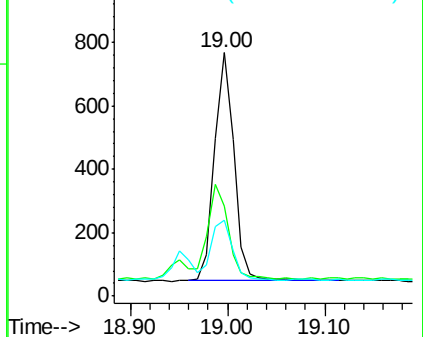
249 28.7 22.8 34.2

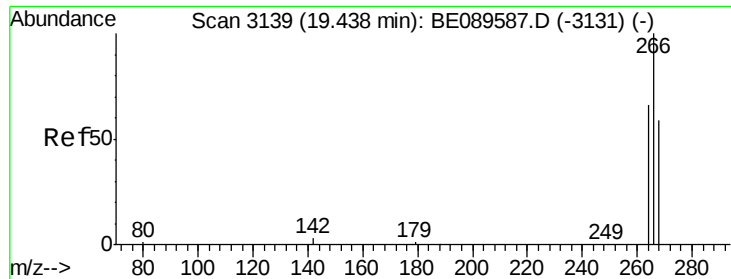


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

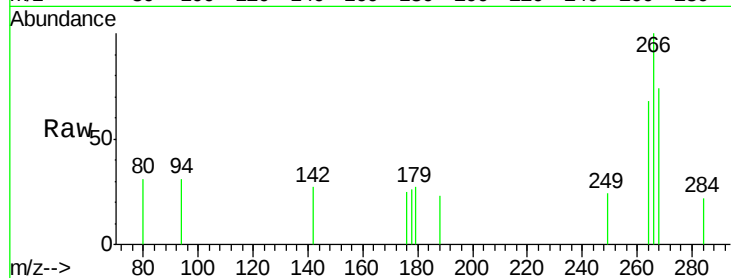




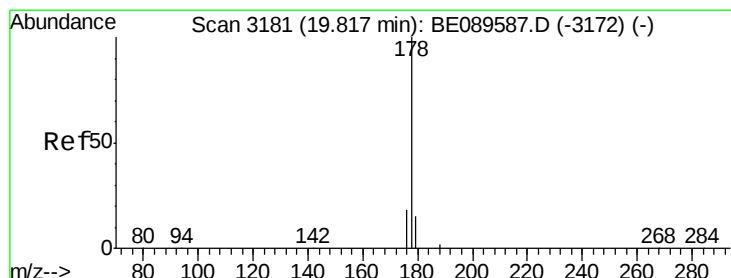
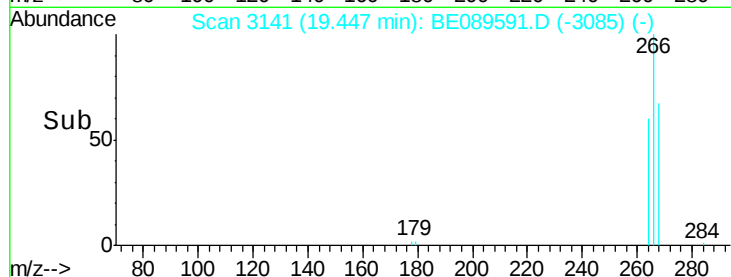
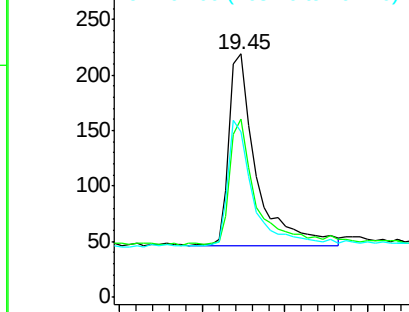
#15
 Pentachlorophenol
 Concen: 0.15 ng
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089591.D
 Acq: 17 Feb 2015 6:13

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:266 Resp: 400
 Ion Ratio Lower Upper
 266 100
 268 73.5 48.8 73.2#
 264 68.0 53.9 80.9

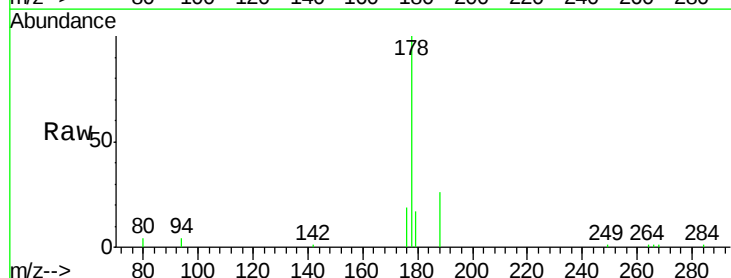


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

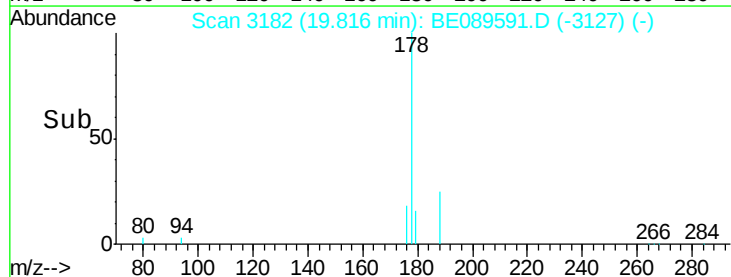
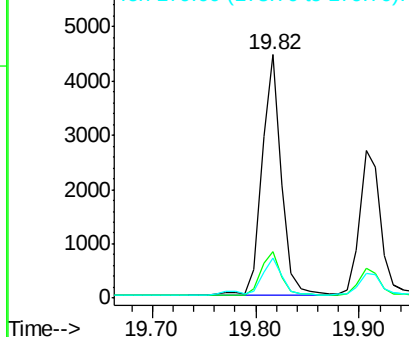


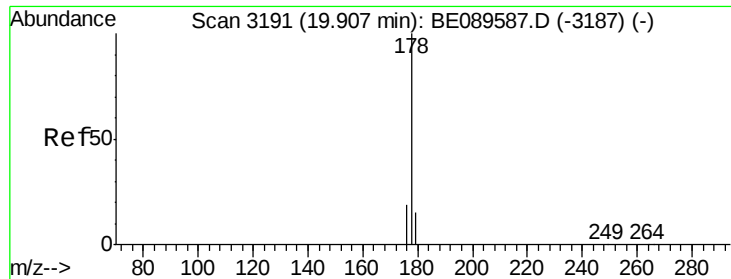
#16
 Phenanthrene
 Concen: 0.12 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089591.D
 Acq: 17 Feb 2015 6:13

Tgt Ion:178 Resp: 5795
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.2 22.8
 179 17.5 12.4 18.6



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

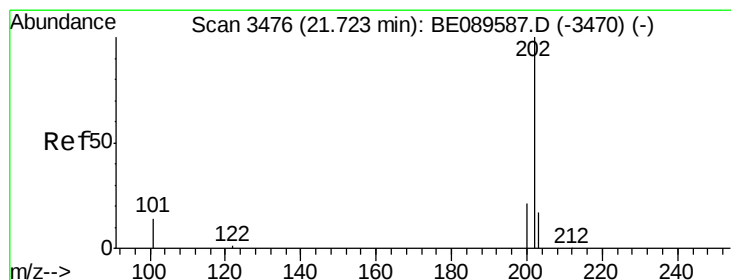
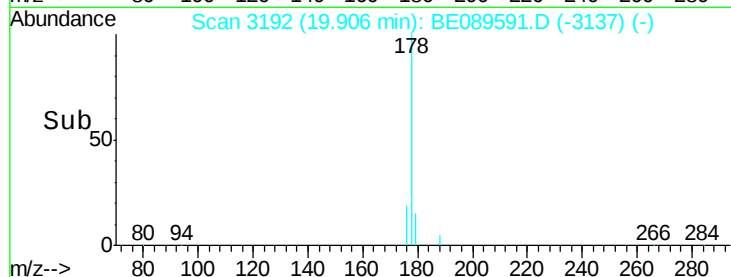
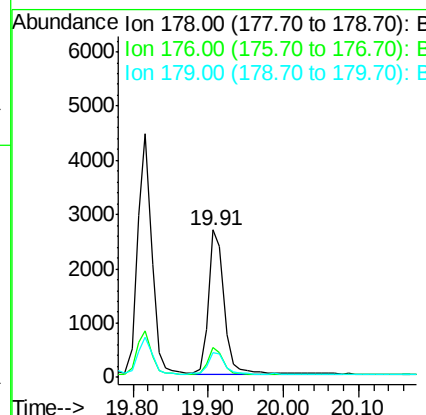
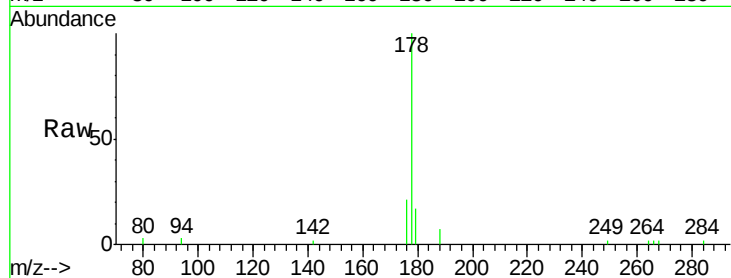




#17
 Anthracene
 Concen: 0.10 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089591.D
 Acq: 17 Feb 2015 6:13

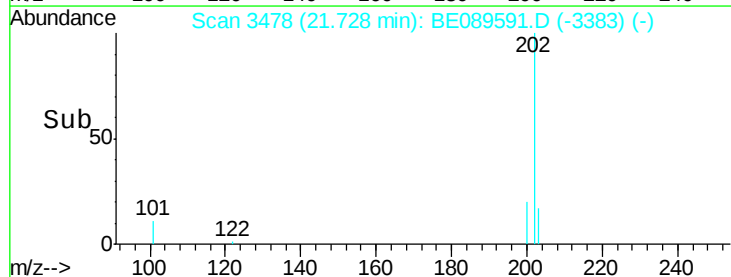
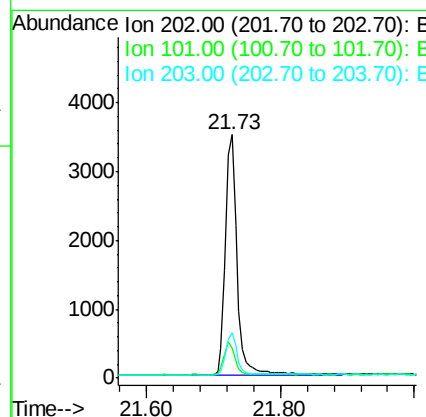
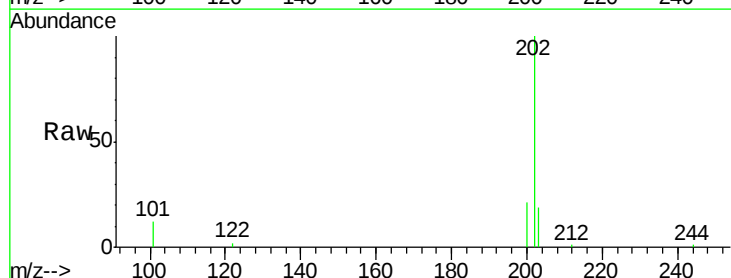
Instrument :
 BNA_E
 ClientSampleId :

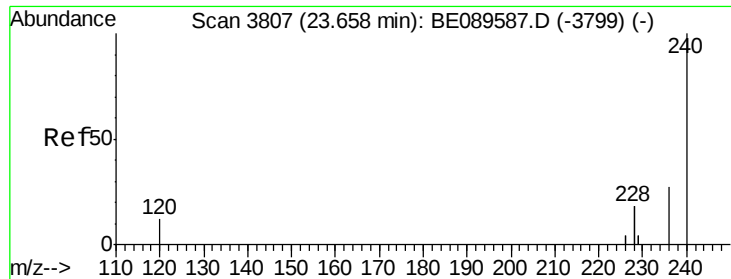
Tot Ion:178 Resp: 3900
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.7 22.1
 179 15.1 12.2 18.2



#18
 Fluoranthene
 Concen: 0.11 ng
 RT: 21.73 min Scan# 3478
 Delta R.T. 0.00 min
 Lab File: BE089591.D
 Acq: 17 Feb 2015 6:13

Tgt Ion:202 Resp: 4192
 Ion Ratio Lower Upper
 202 100
 101 12.7 10.3 15.5
 203 17.0 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampled :

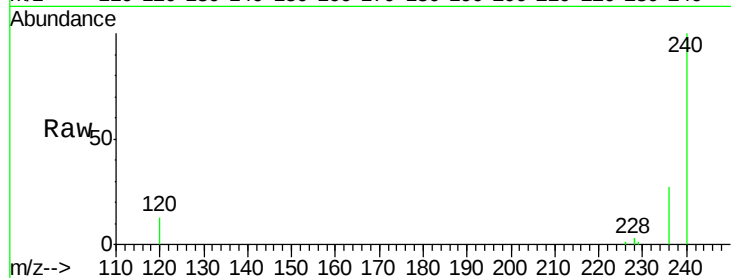
Tot Ion:240 Resp: 127062

Ion Ratio Lower Upper

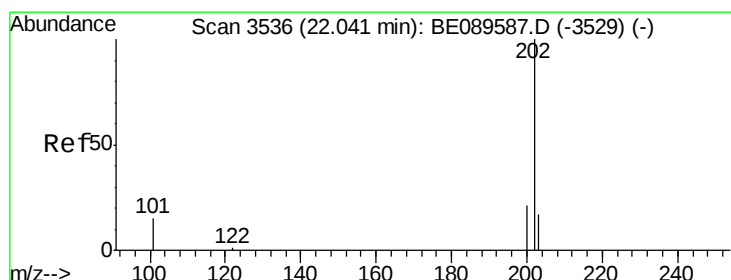
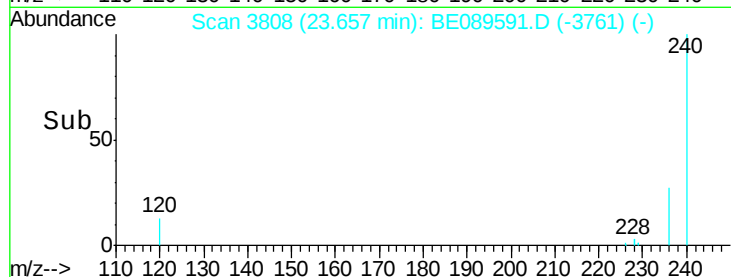
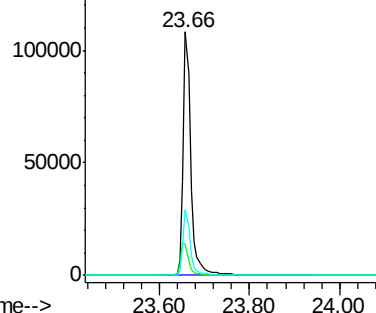
240 100

120 12.7 9.9 14.9

236 26.9 21.5 32.3



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: 0.11 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

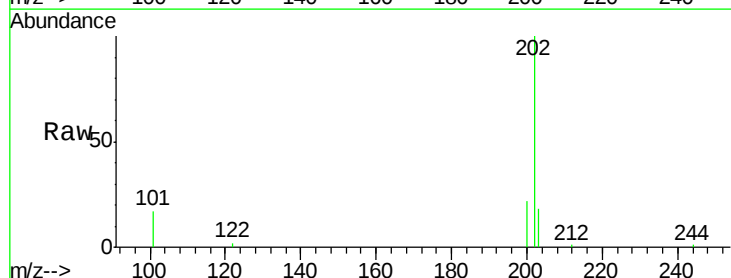
Tgt Ion:202 Resp: 4381

Ion Ratio Lower Upper

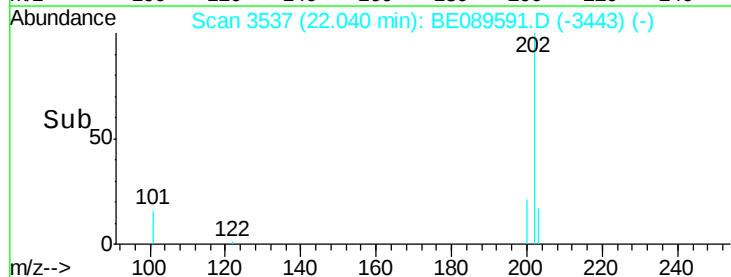
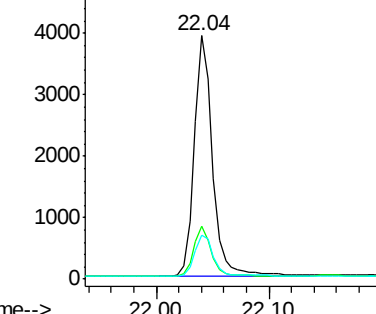
202 100

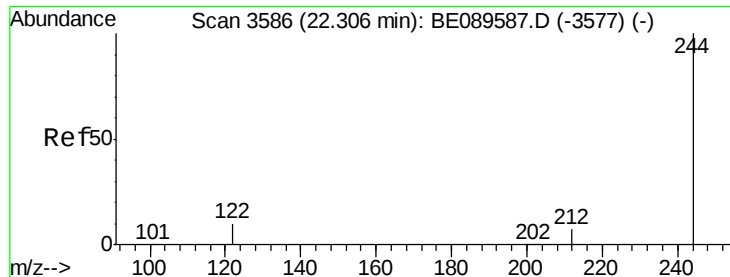
200 20.4 16.5 24.7

203 17.8 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: 0.13 ng

RT: 22.31 min Scan# 3587

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

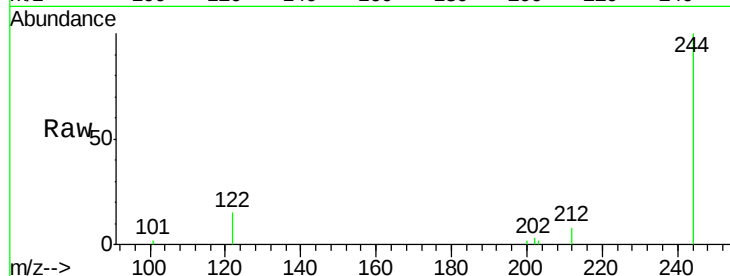
Tot Ion:244 Resp: 2999

Ion Ratio Lower Upper

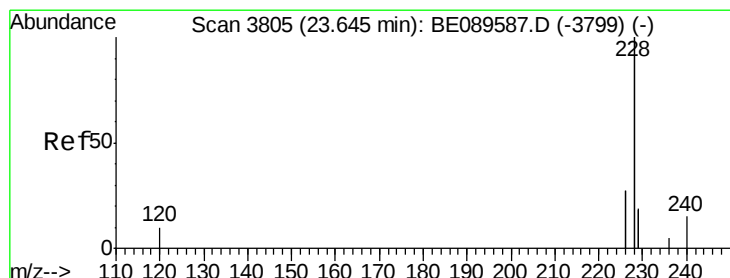
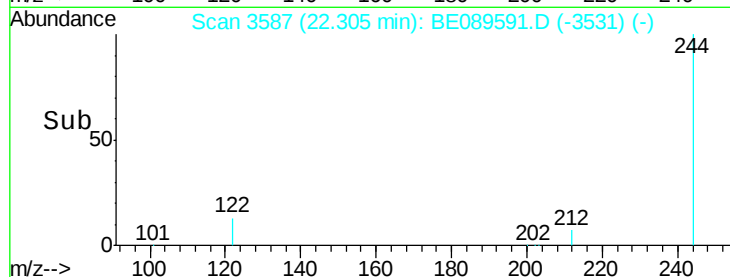
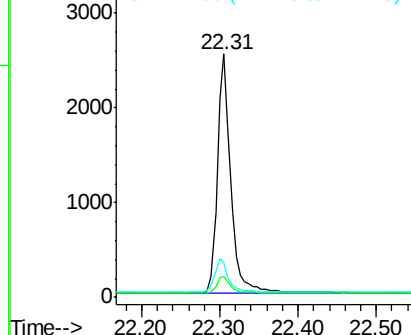
244 100

212 8.3 5.5 8.3#

122 14.6 8.6 12.8#



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: 0.11 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

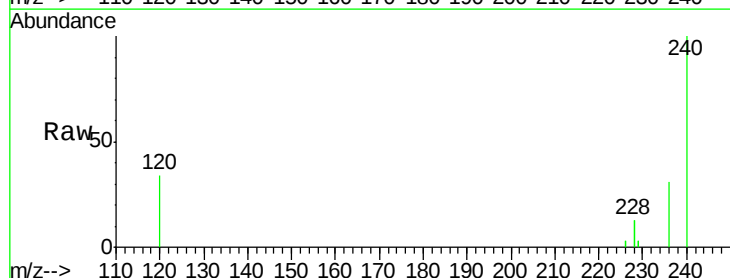
Tgt Ion:228 Resp: 14829

Ion Ratio Lower Upper

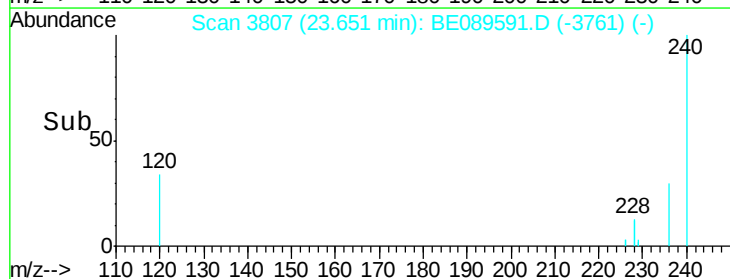
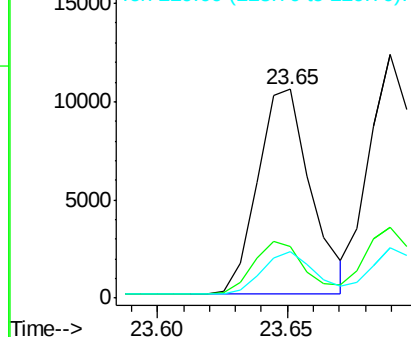
228 100

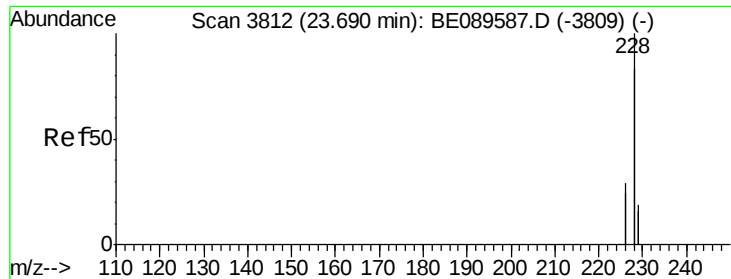
226 24.6 21.5 32.3

229 22.4 15.0 22.4



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: 0.13 ng

RT: 23.69 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

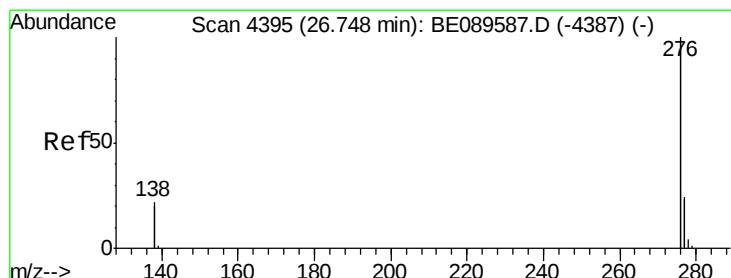
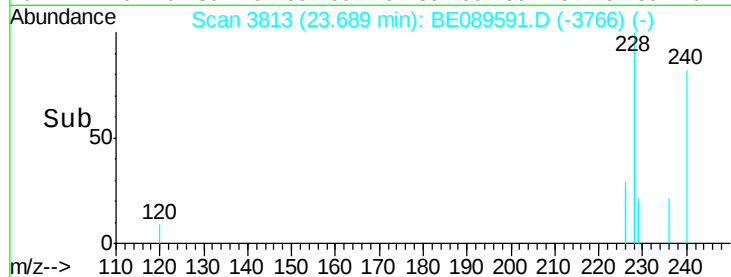
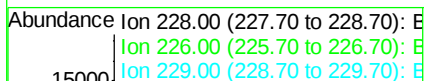
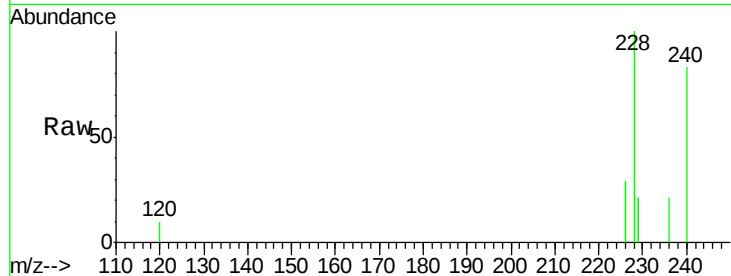
Tot Ion:228 Resp: 19429

Ion Ratio Lower Upper

228 100

226 29.2 23.3 34.9

229 20.6 15.4 23.2



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.08 ng

RT: 26.75 min Scan# 4396

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

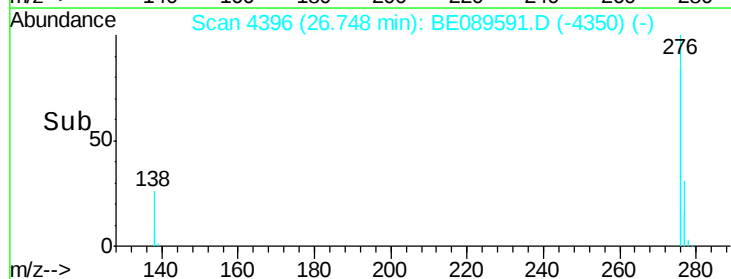
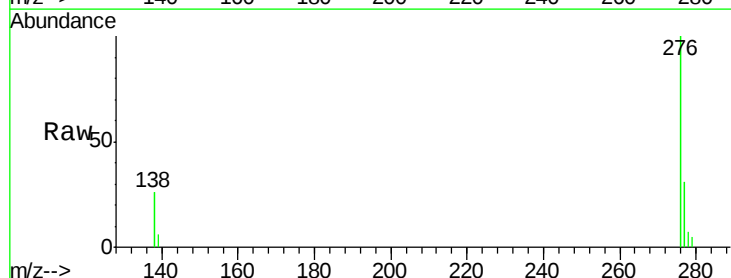
Tgt Ion:276 Resp: 8867

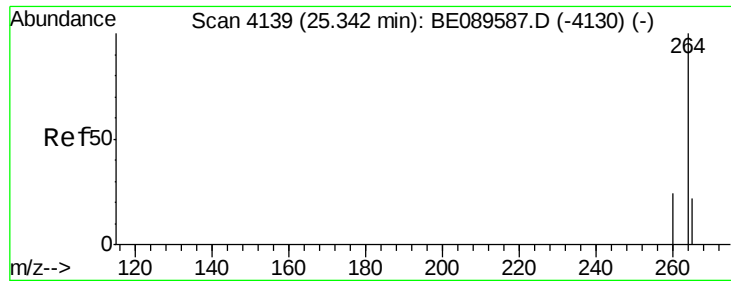
Ion Ratio Lower Upper

276 100

138 21.8 21.0 31.6

277 20.6 20.0 30.0

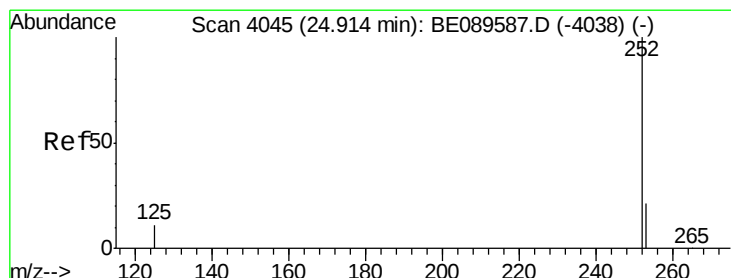
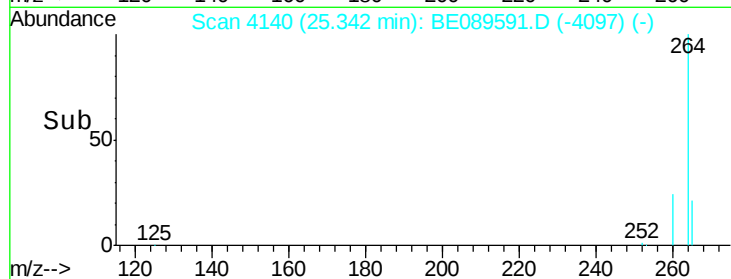
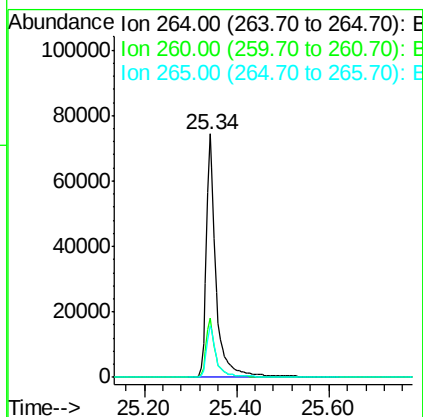
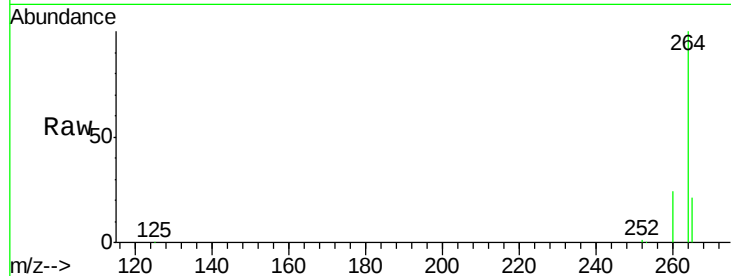




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4140
Delta R.T. -0.00 min
Lab File: BE089591.D
Acq: 17 Feb 2015 6:13

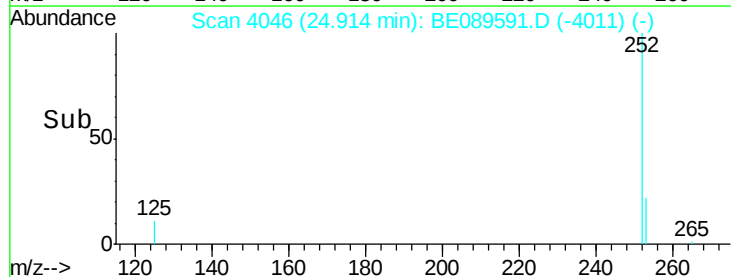
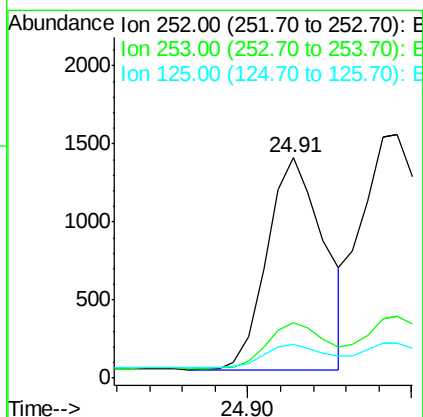
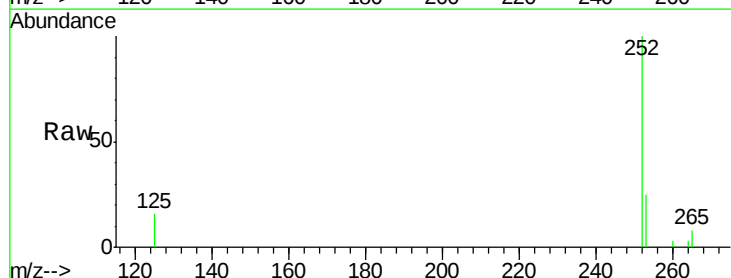
Instrument :
BNA_E
ClientSampleId :

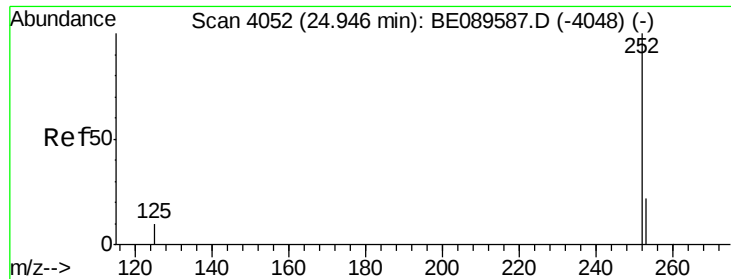
Tot Ion:264 Resp: 107569
Ion Ratio Lower Upper
264 100
260 24.4 19.4 29.0
265 21.4 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.08 ng
RT: 24.91 min Scan# 4046
Delta R.T. -0.00 min
Lab File: BE089591.D
Acq: 17 Feb 2015 6:13

Tgt Ion:252 Resp: 1648
Ion Ratio Lower Upper
252 100
253 25.4 17.3 25.9
125 15.5 8.9 13.3#





#27

Benzo(k)fluoranthene

Concen: 0.09 ng

RT: 24.95 min Scan# 4053

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

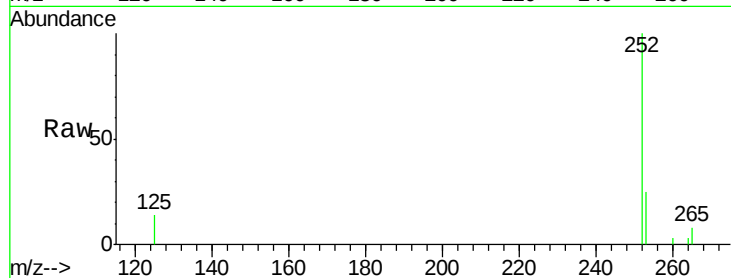
Tot Ion:252 Resp: 3116

Ion Ratio Lower Upper

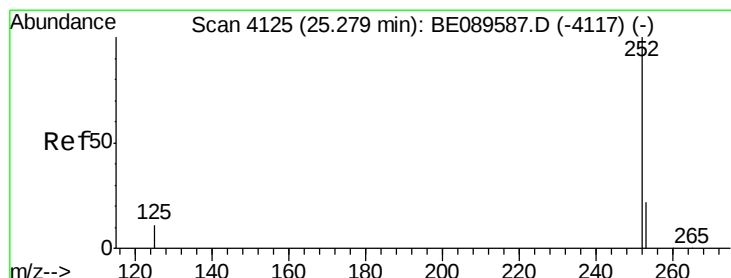
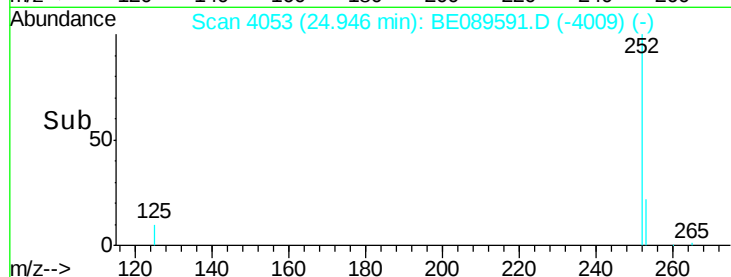
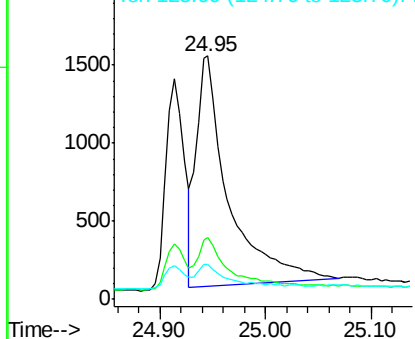
252 100

253 25.4 17.9 26.9

125 14.2 8.6 13.0#



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



#28

Benzo(a)pyrene

Concen: 0.08 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

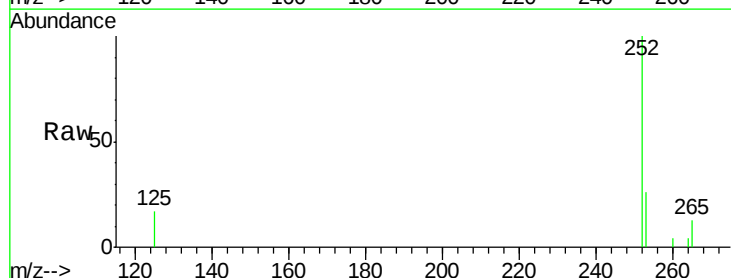
Tgt Ion:252 Resp: 1660

Ion Ratio Lower Upper

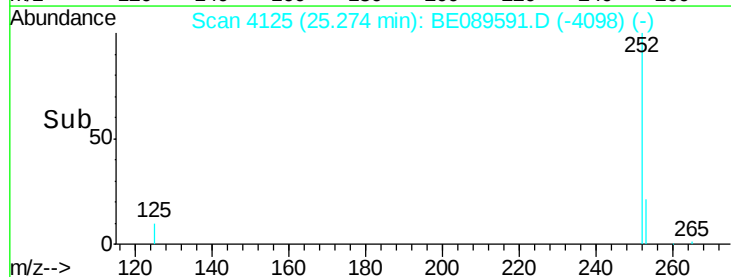
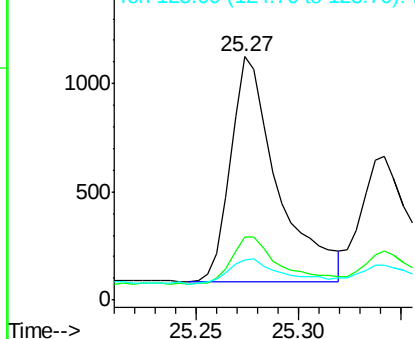
252 100

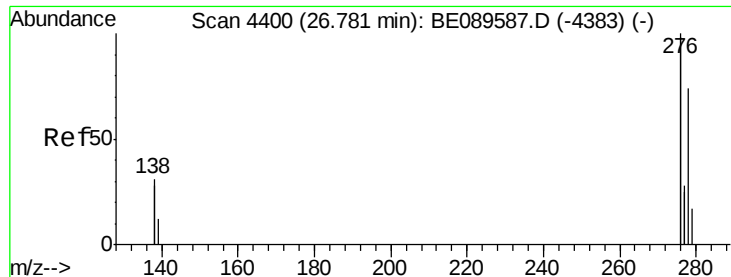
253 26.1 17.7 26.5

125 16.7 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: 0.06 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.01 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

Instrument :

BNA_E

ClientSampleId :

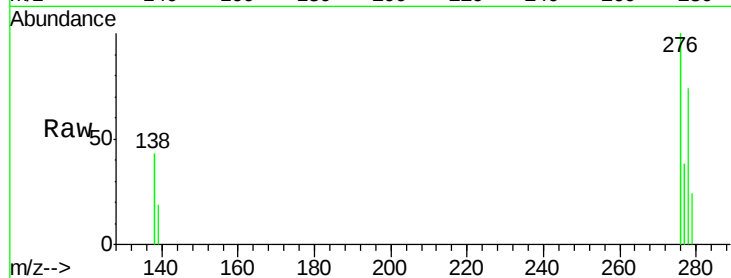
Tot Ion:278 Resp: 1377

Ion Ratio Lower Upper

278 100

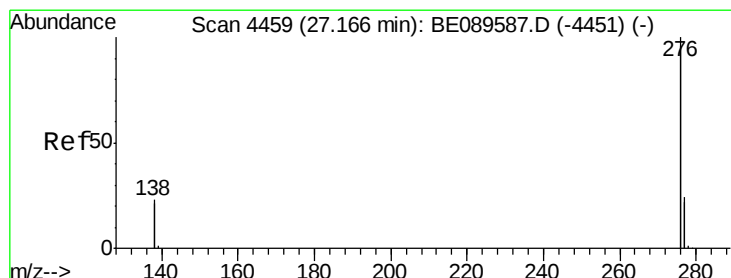
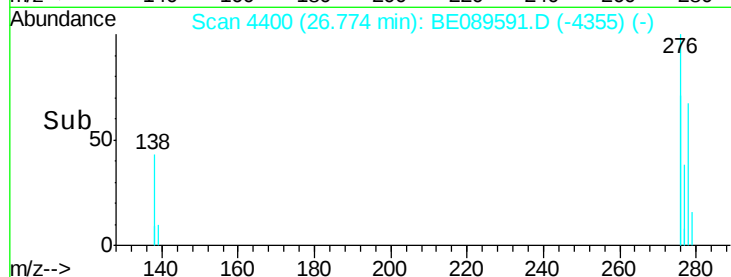
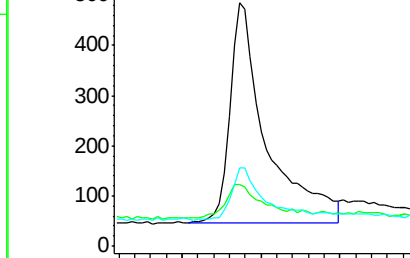
139 25.2 13.9 20.9#

279 32.2 19.5 29.3#



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

26.77



#30

Benzo(g,h,i)perylene

Concen: 0.09 ng

RT: 27.16 min Scan# 4460

Delta R.T. -0.00 min

Lab File: BE089591.D

Acq: 17 Feb 2015 6:13

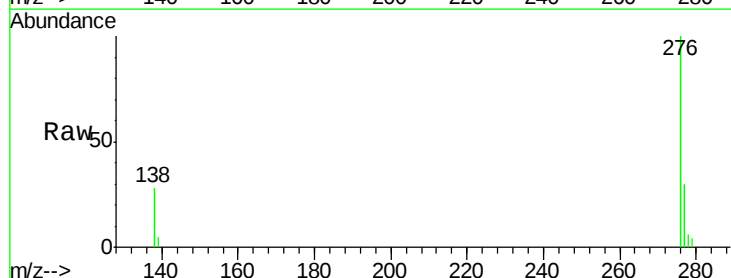
Tgt Ion:276 Resp: 9023

Ion Ratio Lower Upper

276 100

277 29.9 19.1 28.7#

138 27.6 18.5 27.7



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

27.16

