

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010515\
 Data File : BE089322.D
 Acq On : 5 Jan 2015 19:48
 Operator : TP/IZ
 Sample : PB81193BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 06 13:37:32 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIM-BE121914.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 20 00:43:57 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	29118	5.00	ng	0.00
7) Naphthalene-d8	8.50	136	113395	5.00	ng	0.00
13) Acenaphthene-d10	10.65	164	52946	5.00	ng	0.00
17) Phenanthrene-d10	12.71	188	79708	5.00	ng	0.00
20) Chrysene-d12	18.06	240	55402	5.00	ng	0.00
27) Perylene-d12	21.10	264	48657	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.26	112	92431	14.60	ng	0.00
4) Phenol-d6	6.55	99	114697	12.05	ng	0.00
8) Nitrobenzene-d5	7.64	82	64187	7.56	ng	0.00
14) 2,4,6-Tribromophenol	11.66	330	21317	14.88	ng	0.00
15) 2-Fluorobiphenyl	9.85	172	104142	6.94	ng	0.00
22) Terphenyl-d14	15.84	244	70931	7.17	ng	0.00

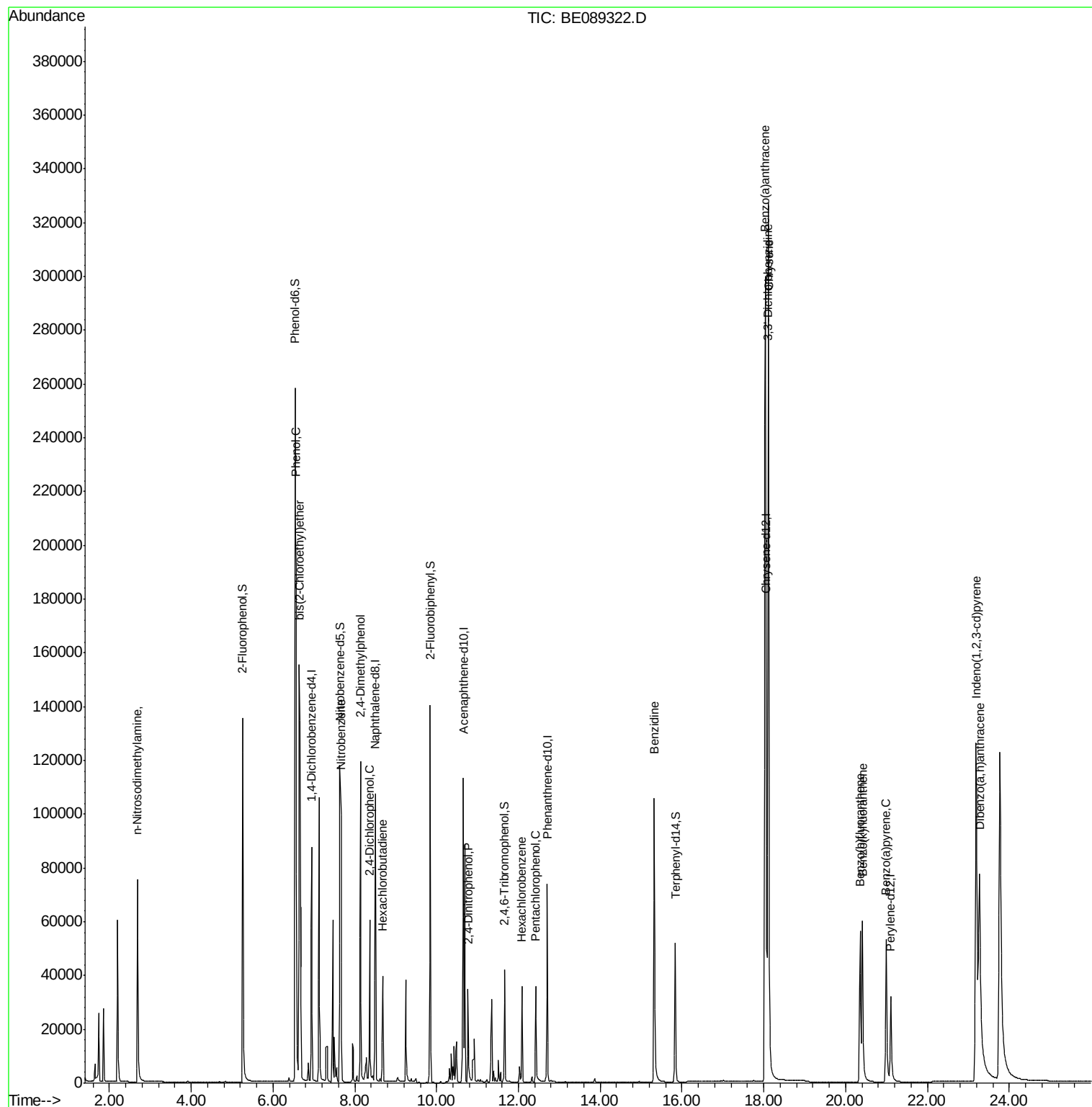
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	2.69	42	35956	9.46	ng	# 80
5) Phenol	6.56	94	84009	7.38	ng	97
6) bis(2-Chloroethyl)ether	6.65	93	67588	7.70	ng	# 84
9) Nitrobenzene	7.66	77	67669	7.68	ng	99
10) 2,4-Dimethylphenol	8.14	122	49951	7.55	ng	88
11) 2,4-Dichlorophenol	8.36	162	44202	7.98	ng	93
12) Hexachlorobutadiene	8.68	225	23000	7.35	ng	100
16) 2,4-Dinitrophenol	10.77	184	21595	37.67	ng	# 51
18) Hexachlorobenzene	12.09	284	28100	7.32	ng	# 82
19) Pentachlorophenol	12.42	266	24969	27.41	ng	92
21) Benzidine	15.32	184	153420	22.01	ng	94
23) Benzo(a)anthracene	18.03	228	403209	8.19	ng	99
24) 3,3'-Dichlorobenzidine	18.10	252	38063	9.61	ng	# 96
25) Chrysene	18.11	228	414466	7.99	ng	99
26) Indeno(1,2,3-cd)pyrene	23.19	276	238186	5.88	ng	99
28) Benzo(b)fluoranthene	20.35	252	83709	9.24	ng	98
29) Benzo(k)fluoranthene	20.41	252	103582	8.38	ng	98
30) Benzo(a)pyrene	20.99	252	84314	9.47	ng	97
31) Dibenzo(a,h)anthracene	23.27	278	67898	8.89	ng	94

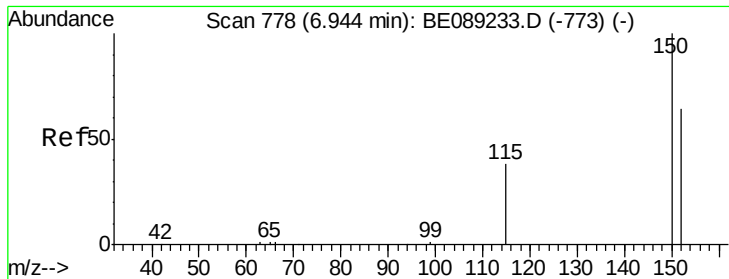
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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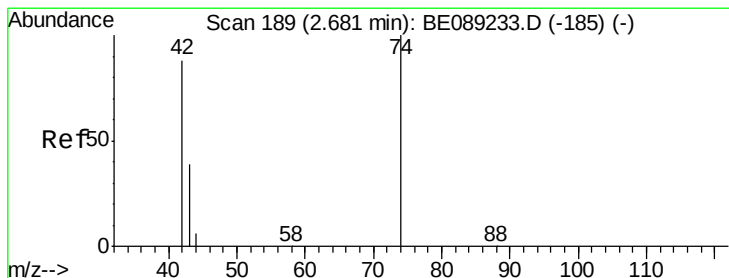
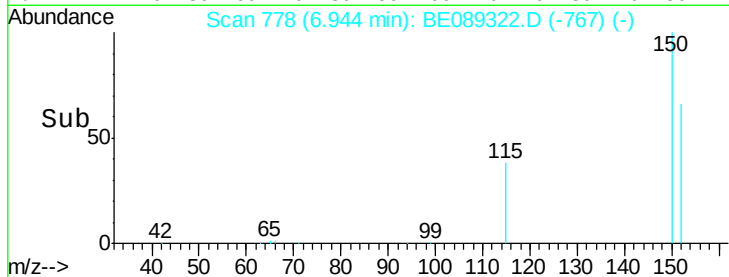
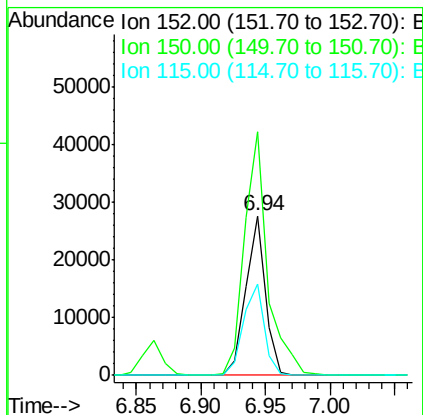
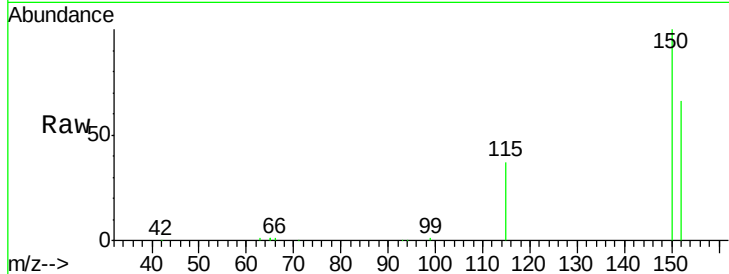


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.94 min Scan# 778
Delta R.T. -0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Instrument :
BNA_E
ClientSampled :

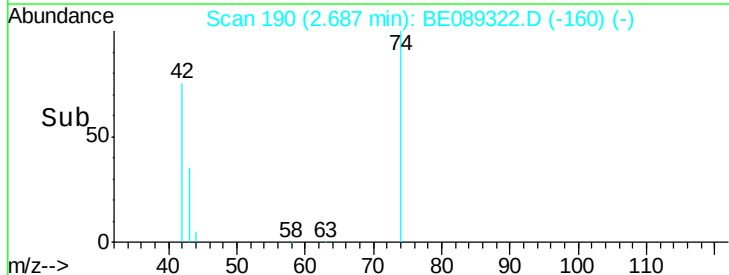
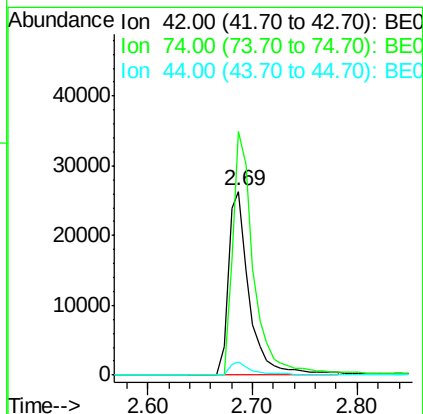
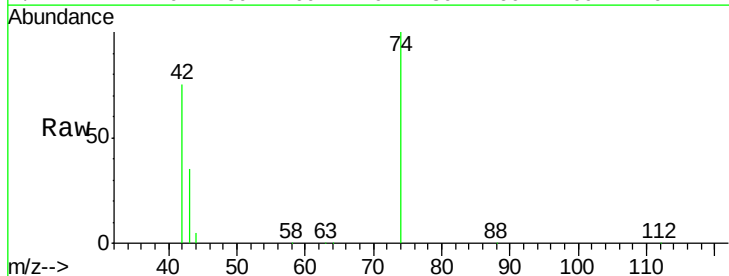
Tgt Ion: 152 Resp: 29118
Ion Ratio Lower Upper
152 100
150 152.6 125.5 188.3
115 56.9 47.4 71.2

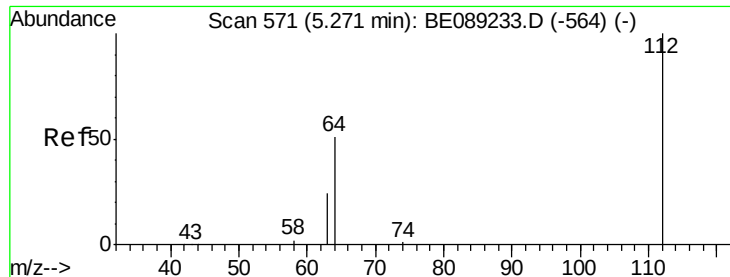


#2

n-Nitrosodimethylamine
Concen: 9.46 ng
RT: 2.69 min Scan# 190
Delta R.T. 0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion: 42 Resp: 35956
Ion Ratio Lower Upper
42 100
74 132.5 89.7 134.5
44 7.1 14.2 21.2#

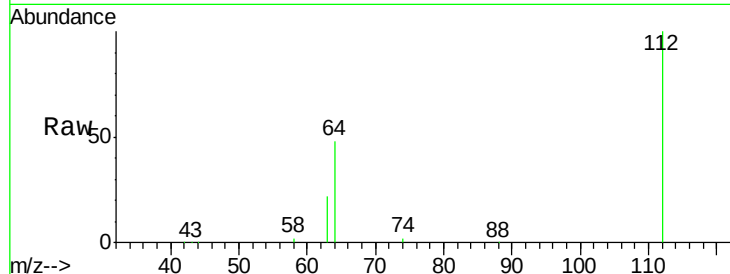




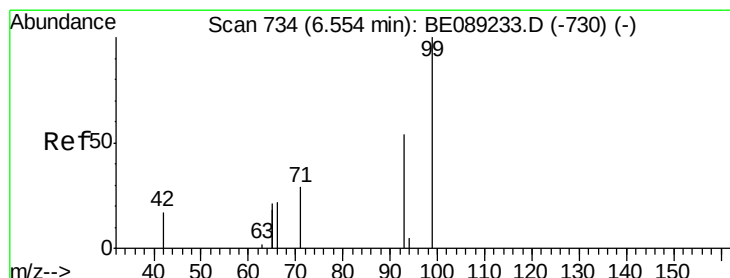
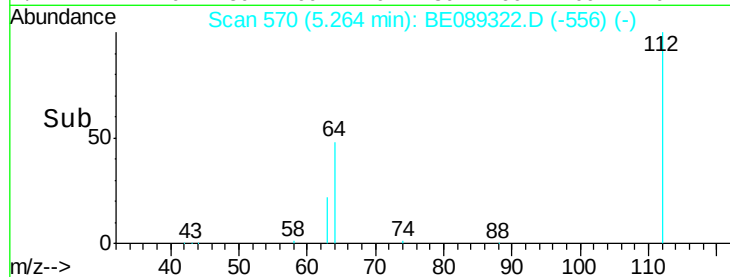
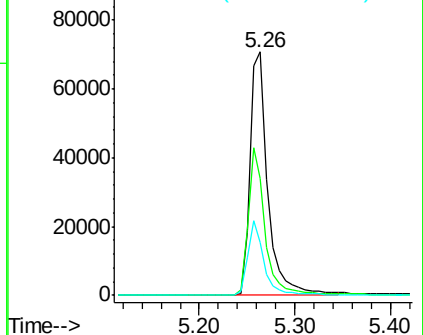
#3
 2-Fluorophenol
 Concen: 14.60 ng
 RT: 5.26 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 112 Resp: 92431
 Ion Ratio Lower Upper
 112 100
 64 47.9 45.4 68.0
 63 21.7 23.6 35.4#

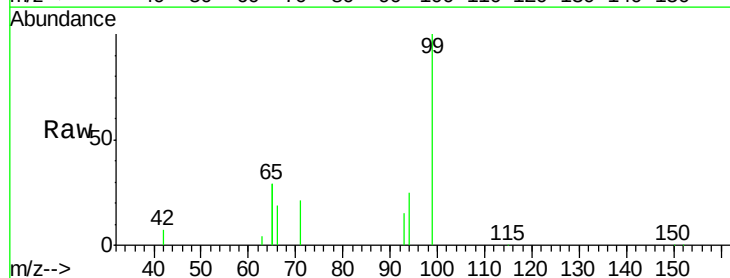


Abundance Ion 112.00 (111.70 to 112.70): BE0
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0

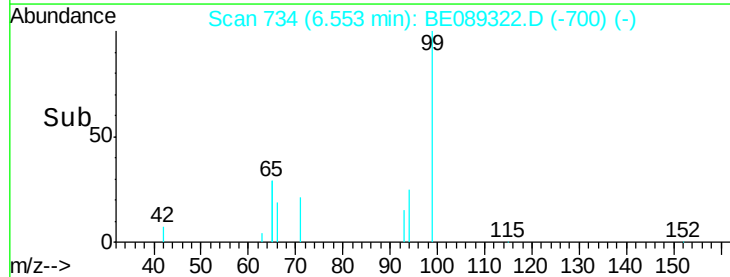
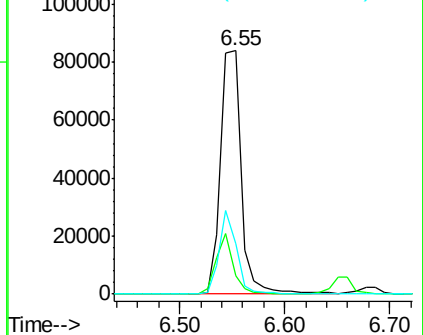


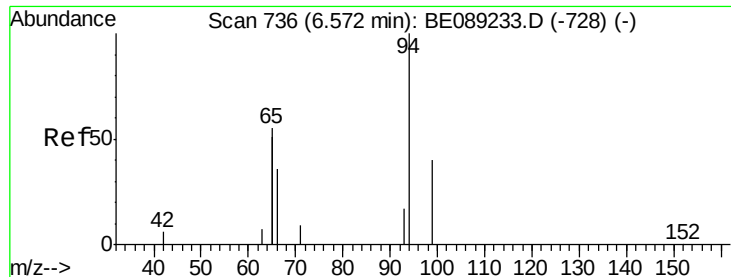
#4
 Phenol-d6
 Concen: 12.05 ng
 RT: 6.55 min Scan# 734
 Delta R.T. -0.00 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Tgt Ion: 99 Resp: 114697
 Ion Ratio Lower Upper
 99 100
 42 7.4 14.6 22.0#
 71 20.7 23.5 35.3#



Abundance Ion 99.00 (98.70 to 99.70): BE0
 Ion 42.00 (41.70 to 42.70): BE0
 Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 7.38 ng

RT: 6.56 min Scan# 735

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampled :

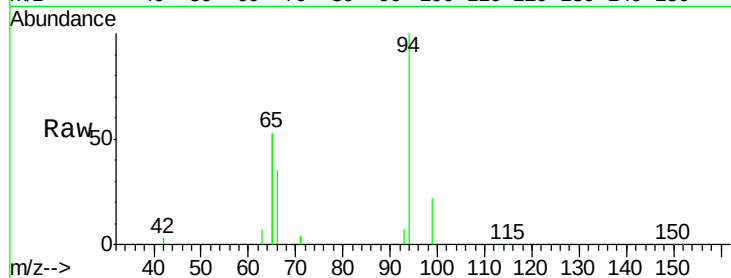
Tgt Ion: 94 Resp: 84009

Ion Ratio Lower Upper

94 100

65 105.2 88.8 128.8

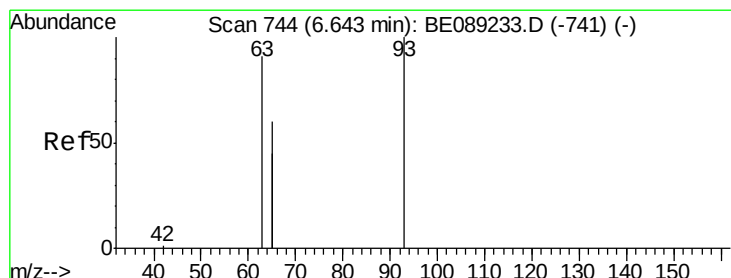
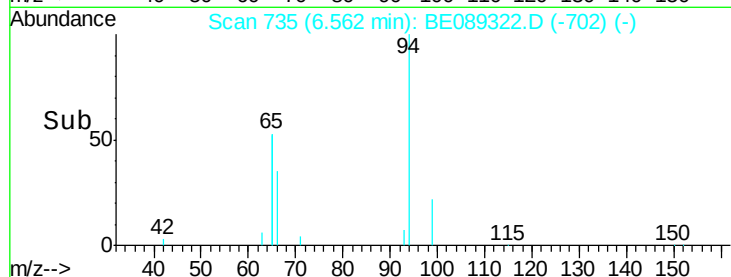
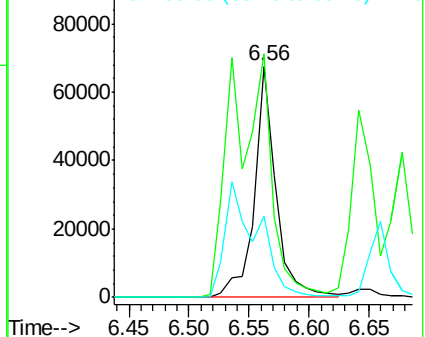
66 35.1 16.9 56.9



Abundance Ion 94.00 (93.70 to 94.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

Ion 66.00 (65.70 to 66.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 7.70 ng

RT: 6.65 min Scan# 745

Delta R.T. 0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

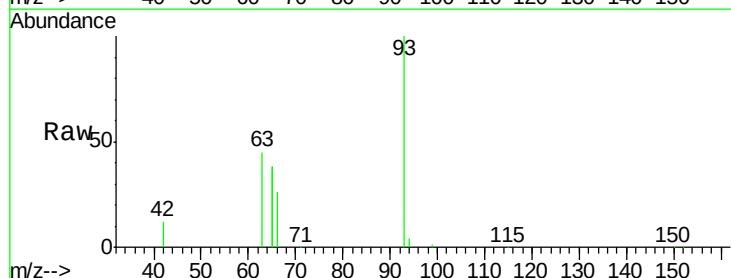
Tgt Ion: 93 Resp: 67588

Ion Ratio Lower Upper

93 100

63 78.6 52.8 79.2

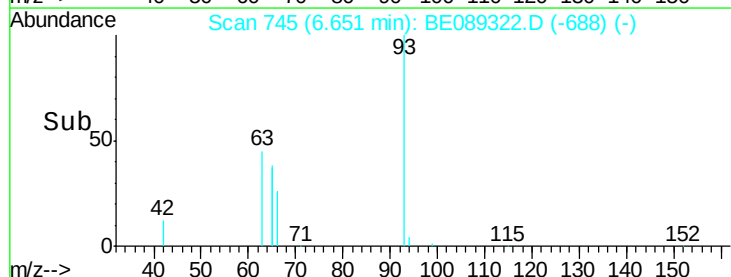
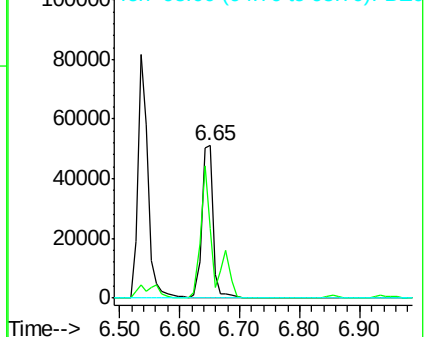
95 0.0 0.0 0.0

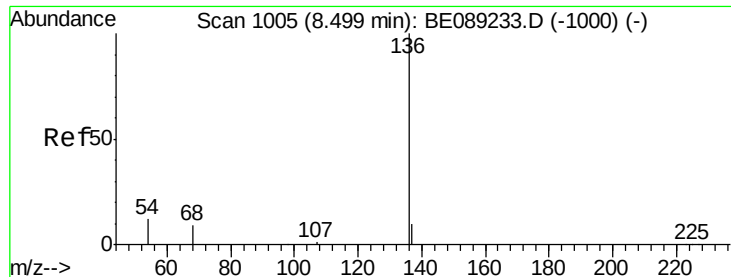


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 8.50 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :

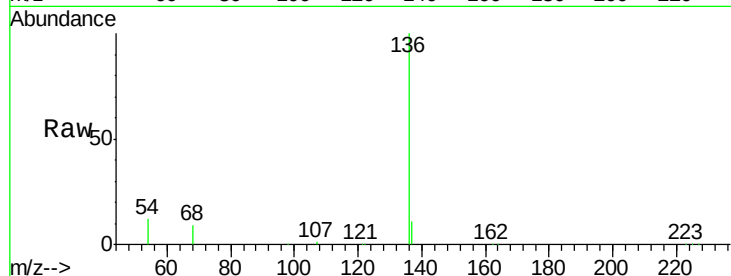
Tgt Ion:136 Resp: 113395

Ion Ratio Lower Upper

136 100

137 10.6 8.4 12.6

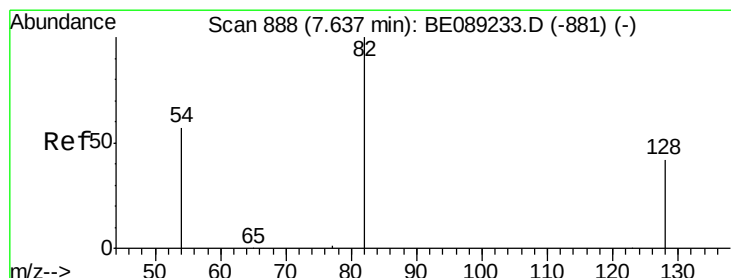
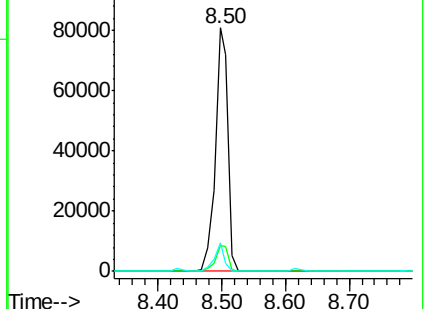
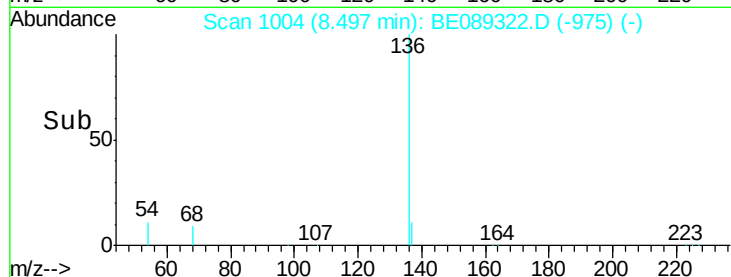
54 11.5 9.4 14.2



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



#8

Nitrobenzene-d5

Concen: 7.56 ng

RT: 7.64 min Scan# 888

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

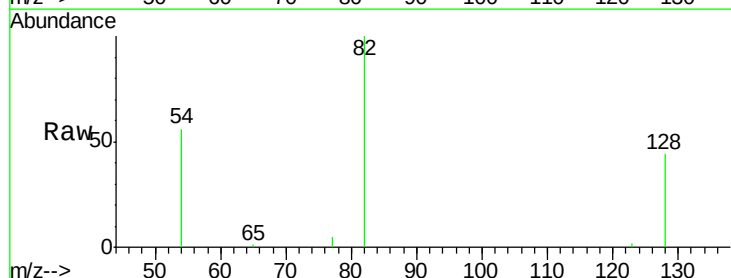
Tgt Ion: 82 Resp: 64187

Ion Ratio Lower Upper

82 100

128 43.5 34.1 51.1

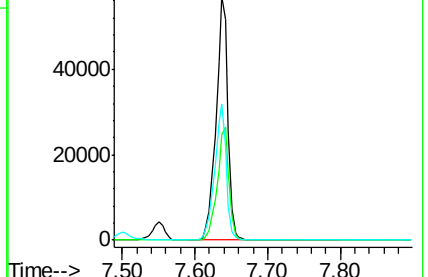
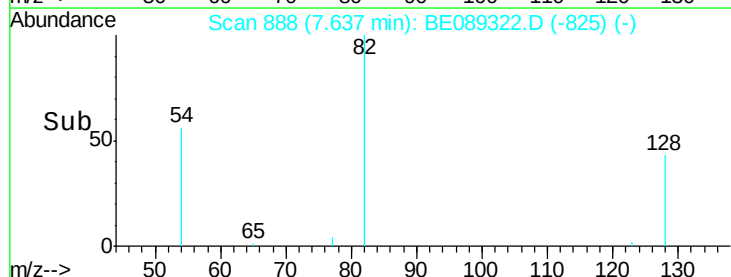
54 55.9 45.6 68.4

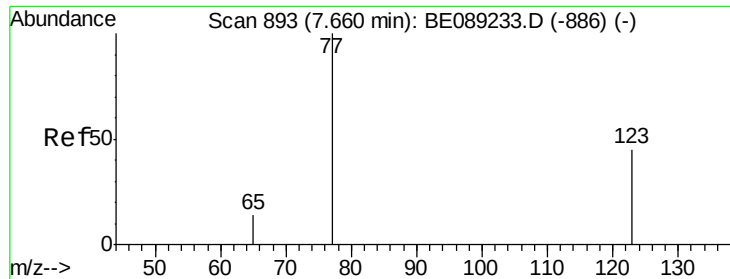


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 7.68 ng

RT: 7.66 min Scan# 893

Delta R.T. -0.00 min

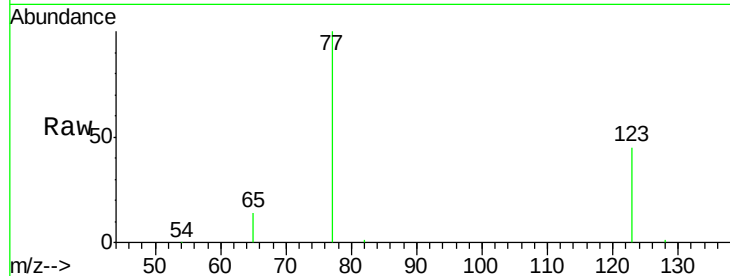
Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :



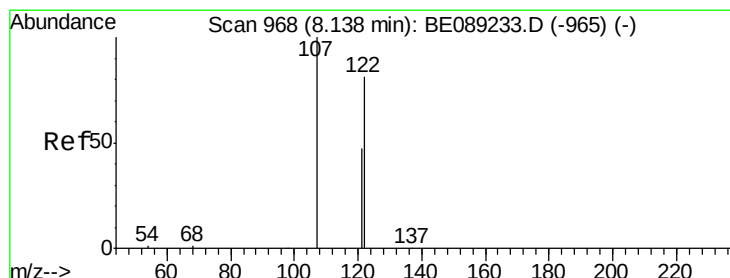
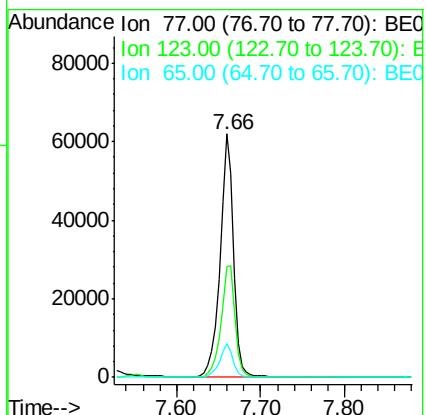
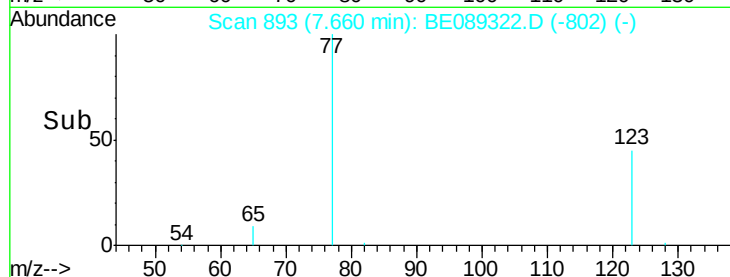
Tgt Ion: 77 Resp: 67669

Ion Ratio Lower Upper

77 100

123 48.1 37.8 56.8

65 13.7 10.5 15.7



#10

2,4-Dimethylphenol

Concen: 7.55 ng

RT: 8.14 min Scan# 967

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

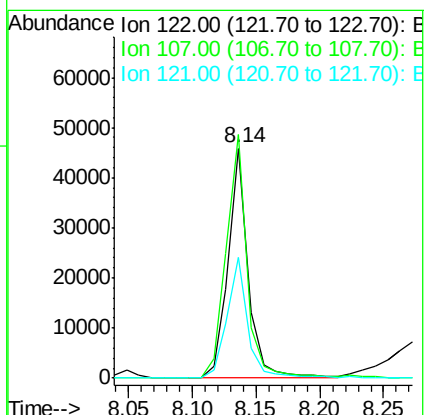
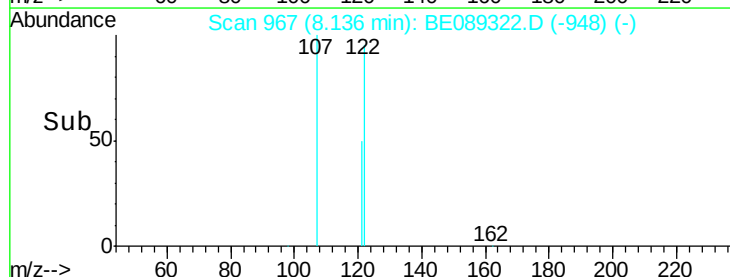
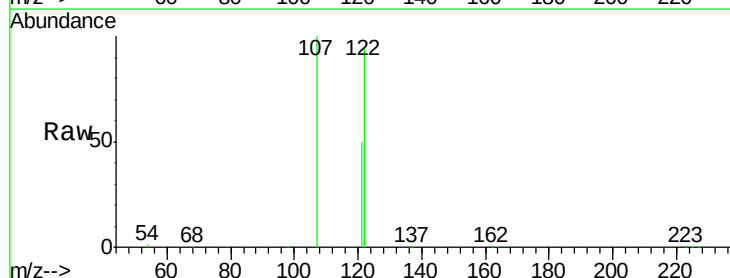
Tgt Ion: 122 Resp: 49951

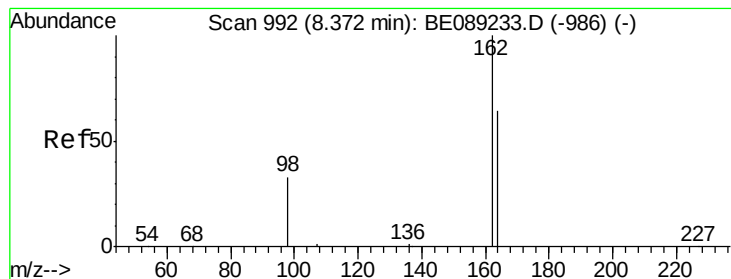
Ion Ratio Lower Upper

122 100

107 106.0 98.1 147.1

121 52.6 46.6 70.0





#11

2,4-Dichlorophenol

Concen: 7.98 ng

RT: 8.36 min Scan# 990

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :

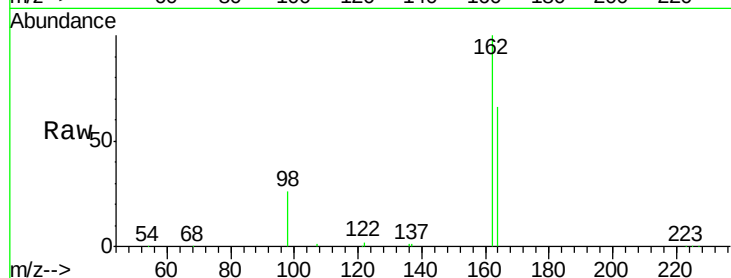
Tgt Ion:162 Resp: 44202

Ion Ratio Lower Upper

162 100

164 66.4 44.3 84.3

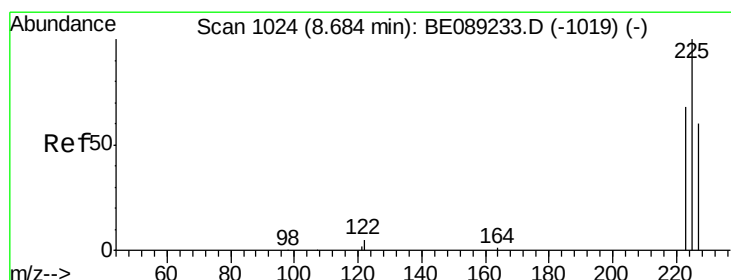
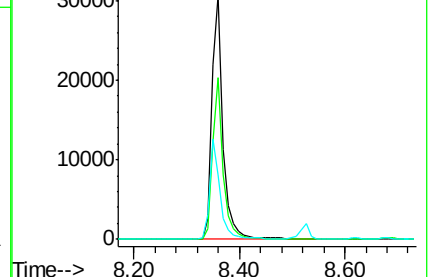
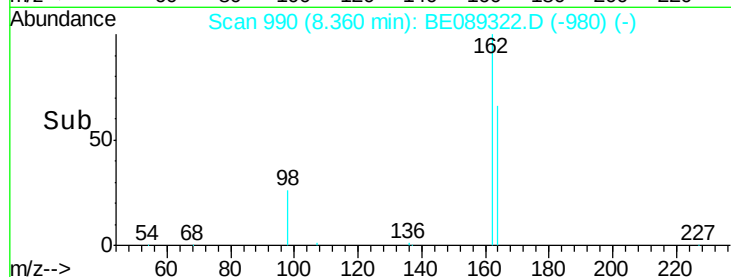
98 26.5 14.6 54.6



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BE0



#12

Hexachlorobutadiene

Concen: 7.35 ng

RT: 8.68 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

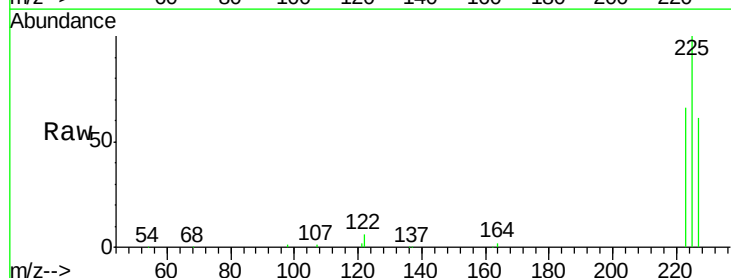
Tgt Ion:225 Resp: 23000

Ion Ratio Lower Upper

225 100

223 62.8 50.4 75.6

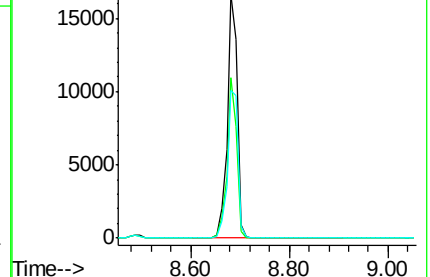
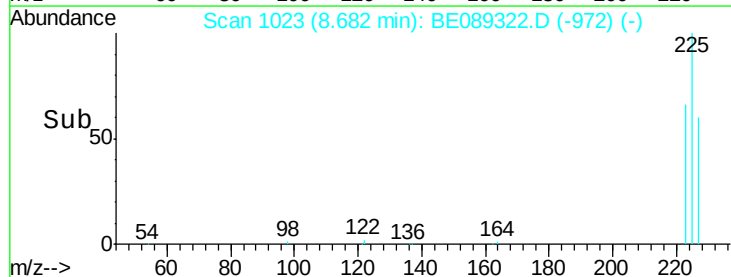
227 64.1 51.7 77.5

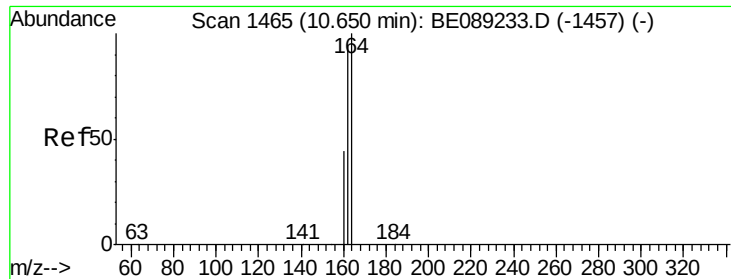


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.65 min Scan# 1464

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :

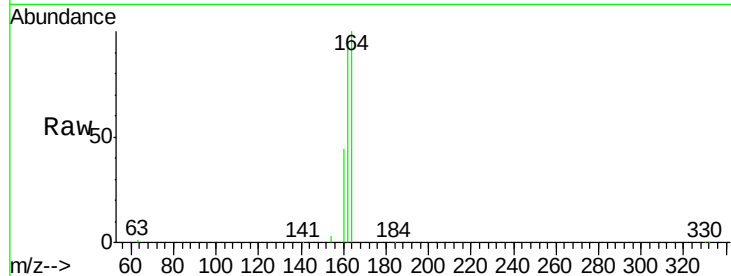
Tgt Ion:164 Resp: 52946

Ion Ratio Lower Upper

164 100

162 94.7 75.4 113.0

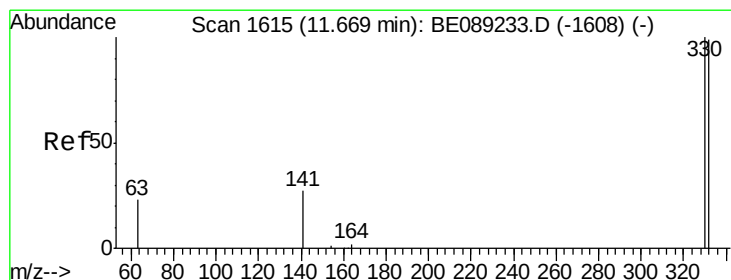
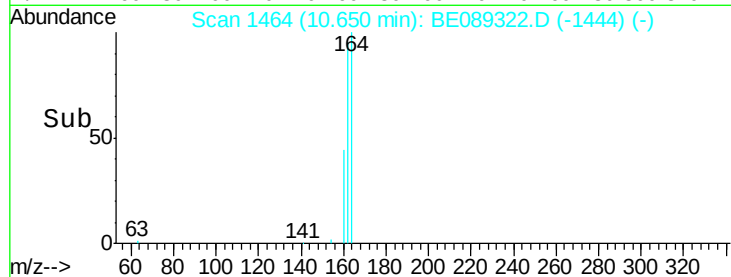
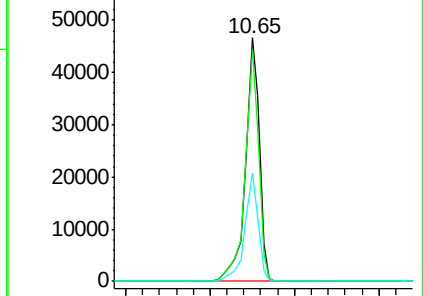
160 44.4 35.6 53.4



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



#14

2,4,6-Tribromophenol

Concen: 14.88 ng

RT: 11.66 min Scan# 1613

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

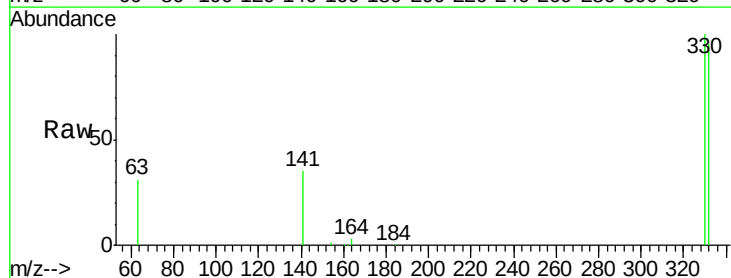
Tgt Ion:330 Resp: 21317

Ion Ratio Lower Upper

330 100

332 87.3 78.1 117.1

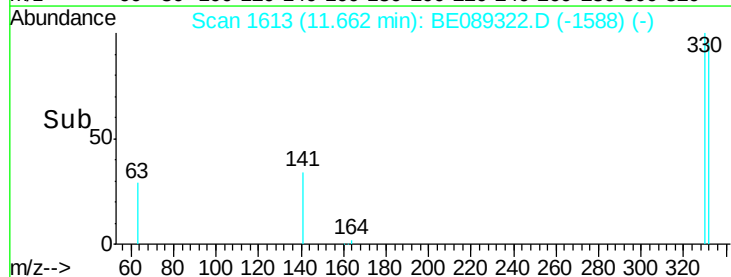
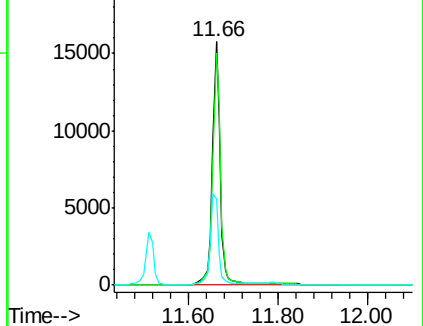
141 35.2 29.4 44.0

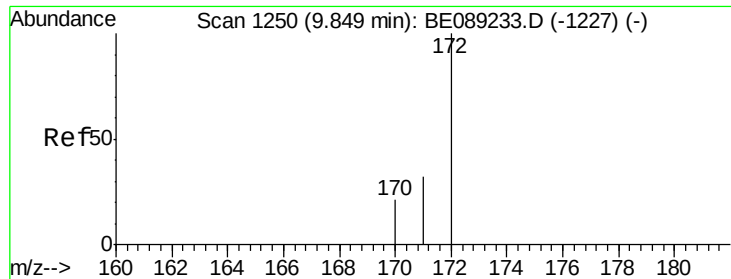


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

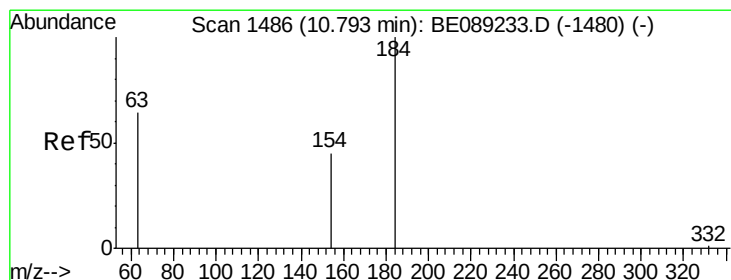
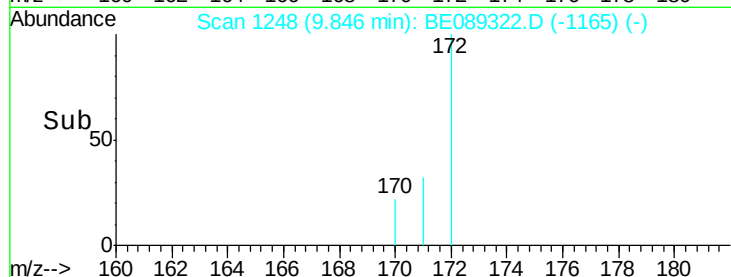
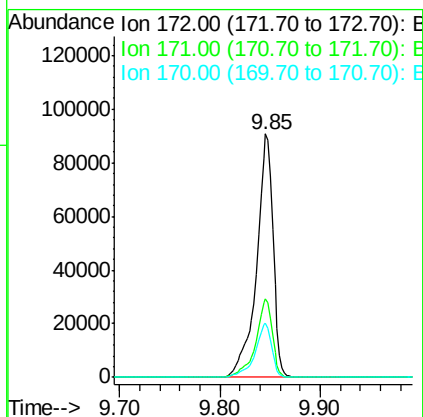
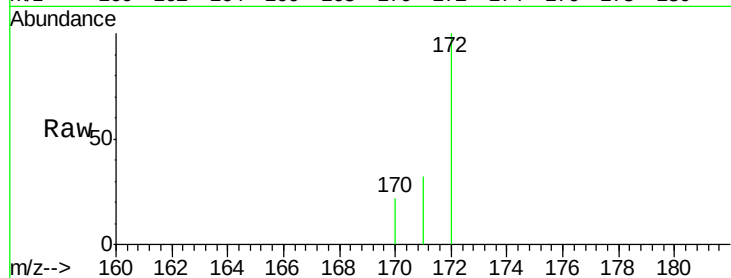




#15
2-Fluorobiphenyl
Concen: 6.94 ng
RT: 9.85 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

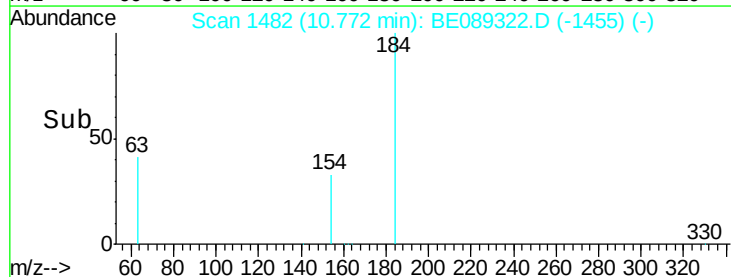
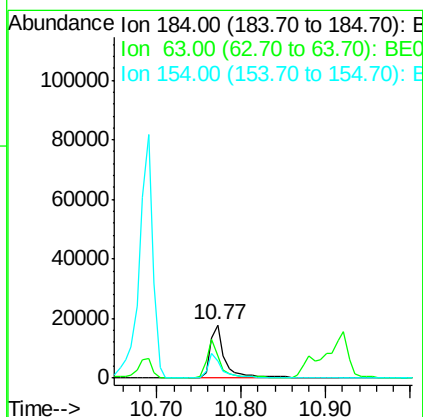
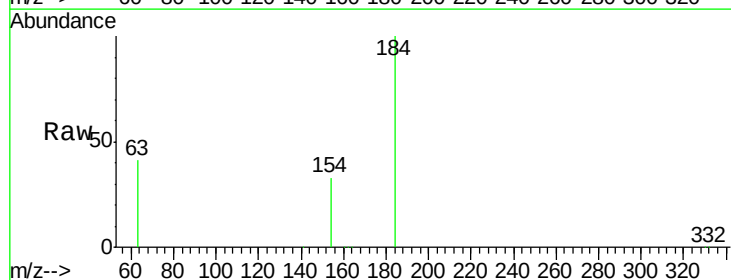
Instrument :
BNA_E
ClientSampleId :

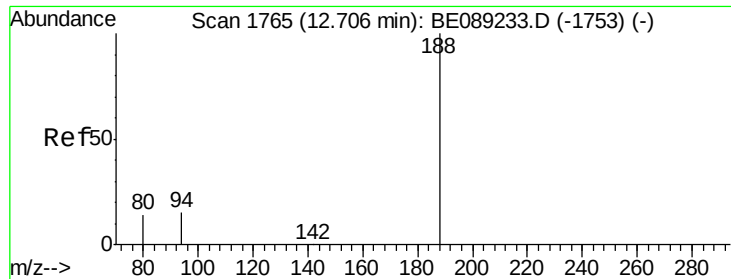
Tgt Ion:172 Resp: 104142
Ion Ratio Lower Upper
172 100
171 32.5 25.5 38.3
170 22.4 16.8 25.2



#16
2,4-Dinitrophenol
Concen: 37.67 ng
RT: 10.77 min Scan# 1482
Delta R.T. -0.02 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion:184 Resp: 21595
Ion Ratio Lower Upper
184 100
63 40.8 69.9 104.9#
154 32.9 59.1 88.7#

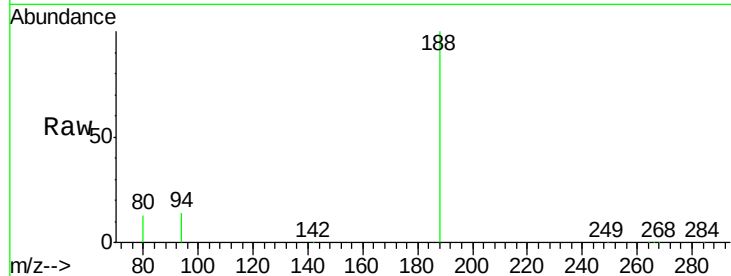




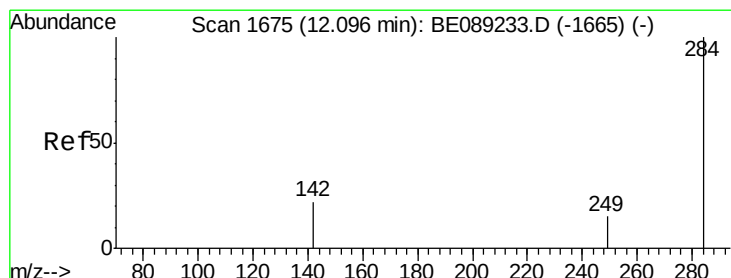
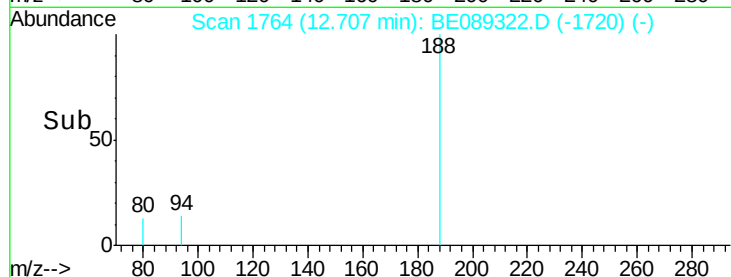
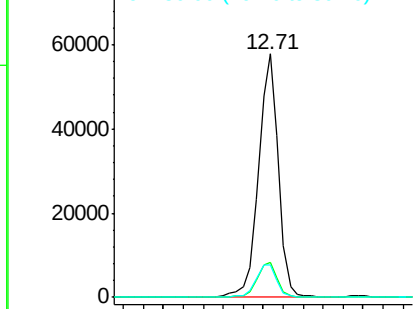
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.71 min Scan# 1764
Delta R.T. 0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 79708
Ion Ratio Lower Upper
188 100
94 14.1 11.8 17.8
80 13.3 11.4 17.0

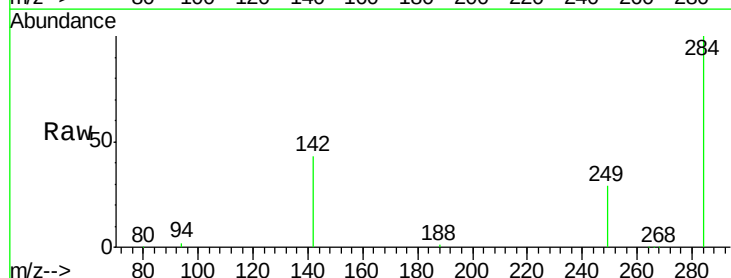


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE
Ion 80.00 (79.70 to 80.70): BE

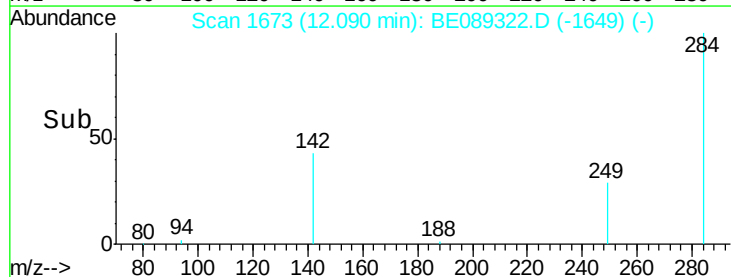
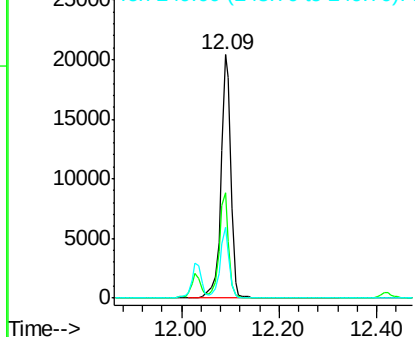


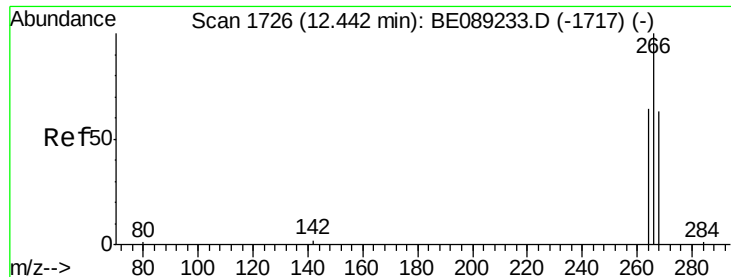
#18
Hexachlorobenzene
Concen: 7.32 ng
RT: 12.09 min Scan# 1673
Delta R.T. -0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion:284 Resp: 28100
Ion Ratio Lower Upper
284 100
142 43.1 23.8 35.8#
249 29.0 19.2 28.8#



Abundance Ion 284.00 (283.70 to 284.70): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

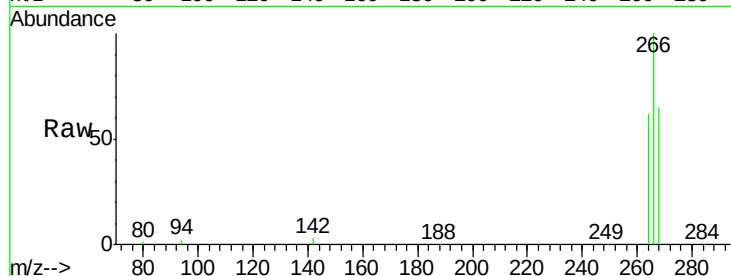




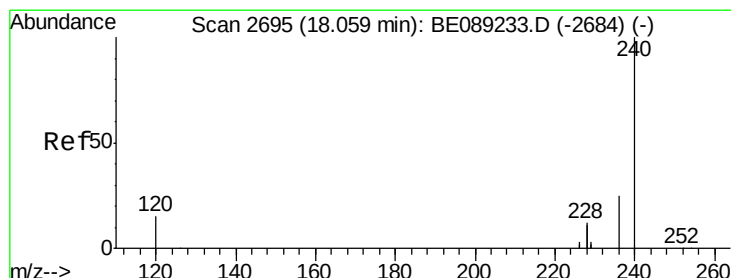
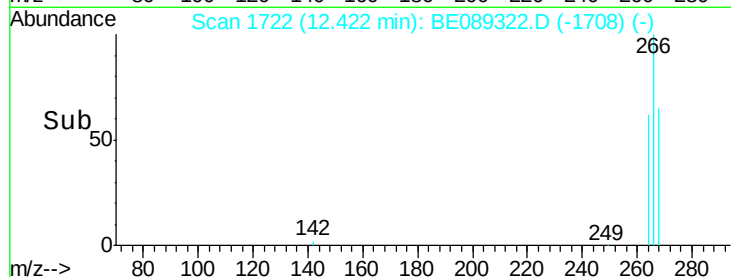
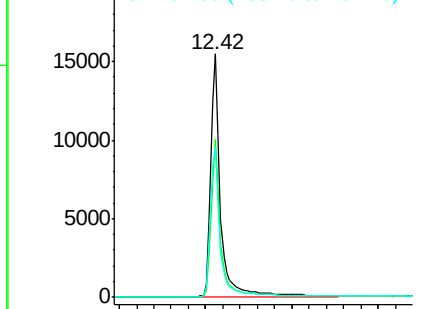
#19
 Pentachlorophenol
 Concen: 27.41 ng
 RT: 12.42 min Scan# 1722
 Delta R.T. -0.02 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 266 Resp: 24969
 Ion Ratio Lower Upper
 266 100
 268 64.6 55.8 83.6
 264 61.7 56.5 84.7

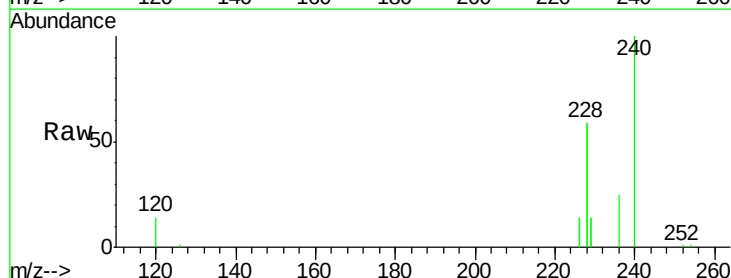


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

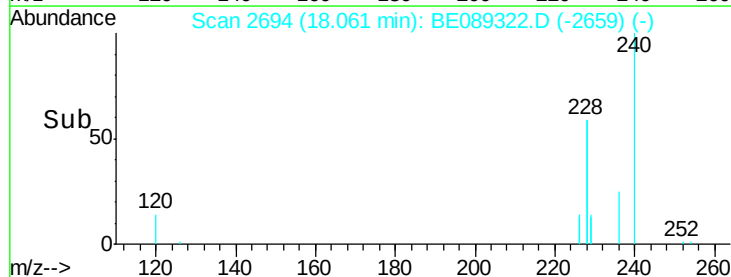
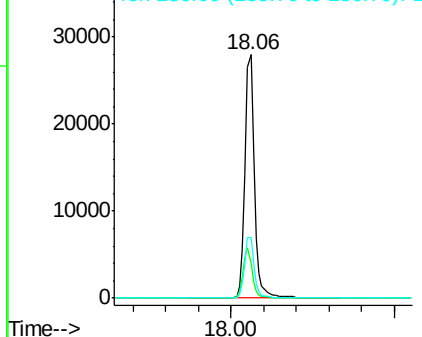


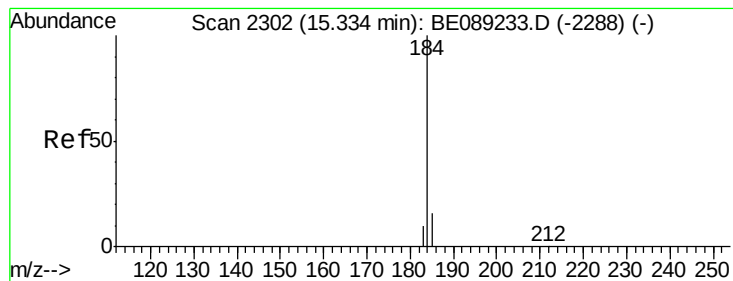
#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.06 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Tgt Ion: 240 Resp: 55402
 Ion Ratio Lower Upper
 240 100
 120 14.4 12.5 18.7
 236 25.1 20.2 30.2



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





#21

Benzidine

Concen: 22.01 ng

RT: 15.32 min Scan# 2298

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampled :

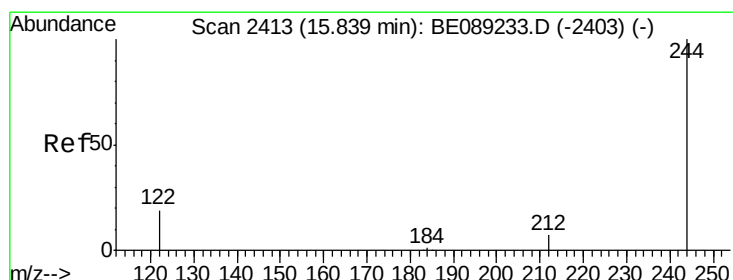
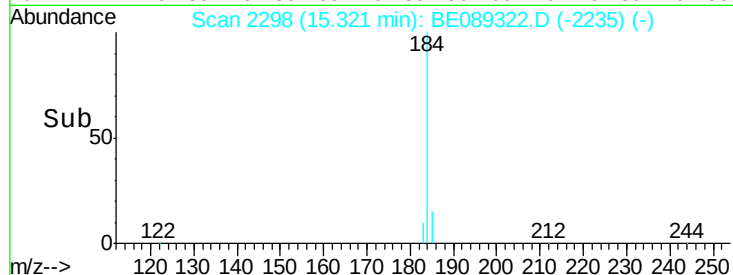
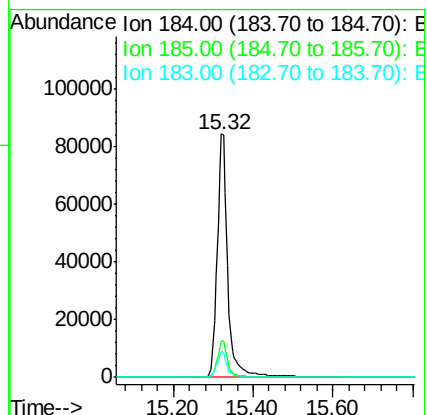
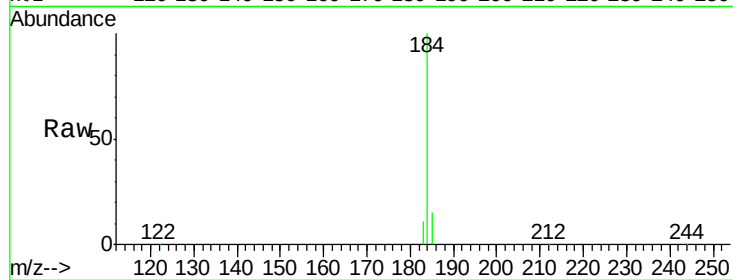
Tgt Ion:184 Resp: 153420

Ion Ratio Lower Upper

184 100

185 14.8 14.4 21.6

183 10.5 9.6 14.4



#22

Terphenyl-d14

Concen: 7.17 ng

RT: 15.84 min Scan# 2411

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

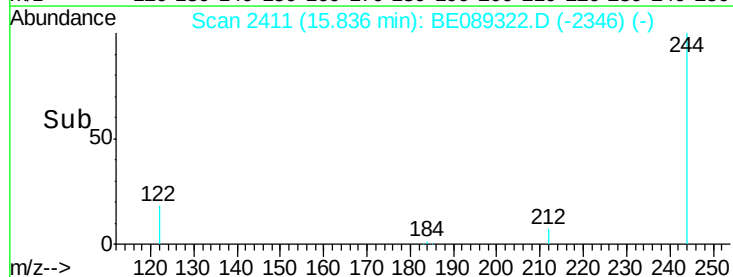
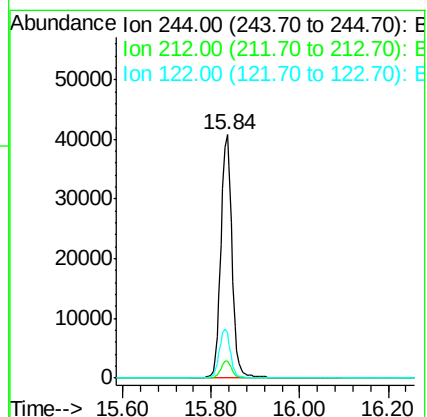
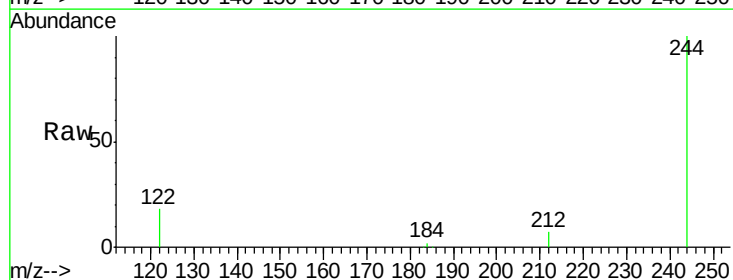
Tgt Ion:244 Resp: 70931

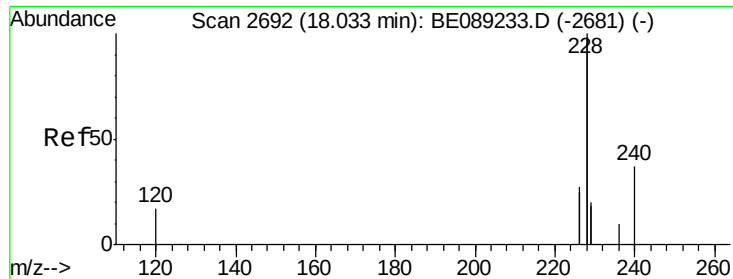
Ion Ratio Lower Upper

244 100

212 6.9 6.2 9.4

122 18.3 16.2 24.2

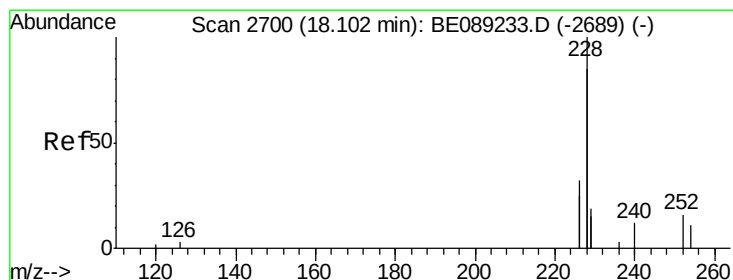
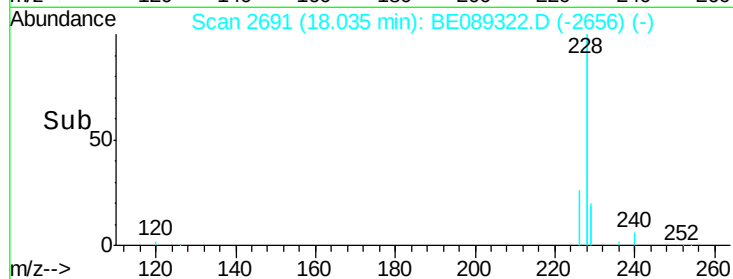
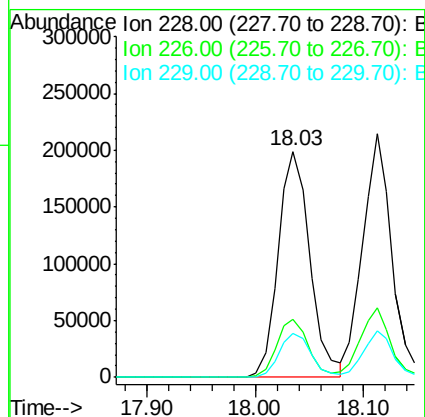
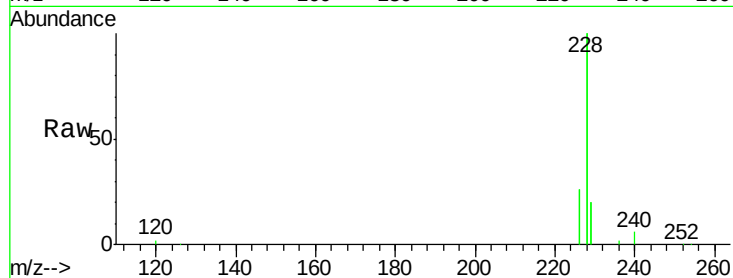




#23
Benzo(a)anthracene
Concen: 8.19 ng
RT: 18.03 min Scan# 2691
Delta R.T. 0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

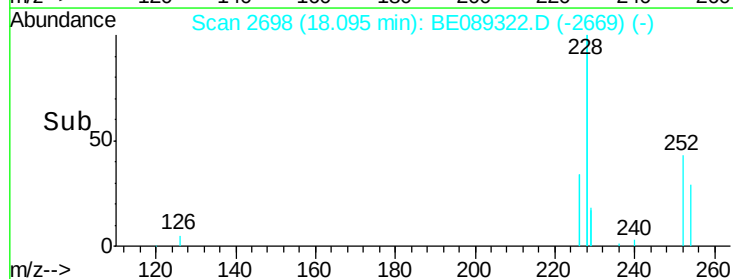
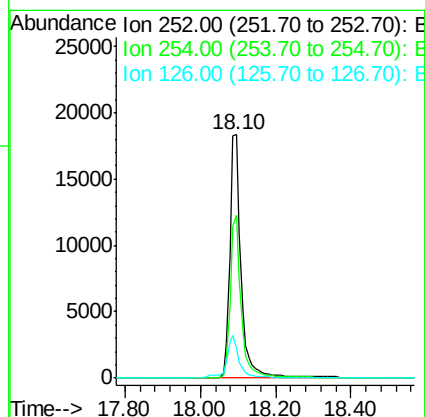
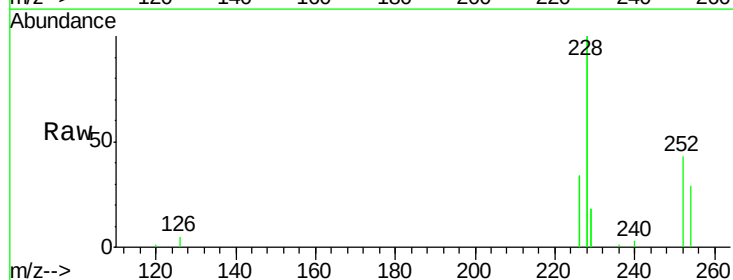
Instrument :
BNA_E
ClientSampleId :

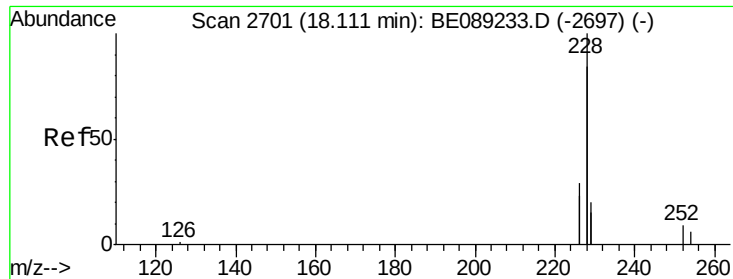
Tgt Ion:228 Resp: 403209
Ion Ratio Lower Upper
228 100
226 25.9 21.4 32.0
229 19.7 16.0 24.0



#24
3,3'-Dichlorobenzidine
Concen: 9.61 ng
RT: 18.10 min Scan# 2698
Delta R.T. -0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion:252 Resp: 38063
Ion Ratio Lower Upper
252 100
254 67.0 53.0 79.6
126 12.2 15.0 22.6#





#25

Chrysene

Concen: 7.99 ng

RT: 18.11 min Scan# 2700

Delta R.T. 0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :

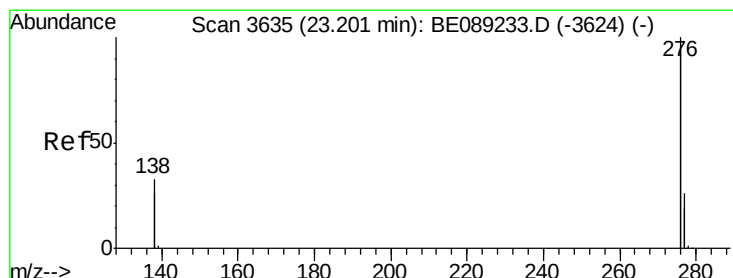
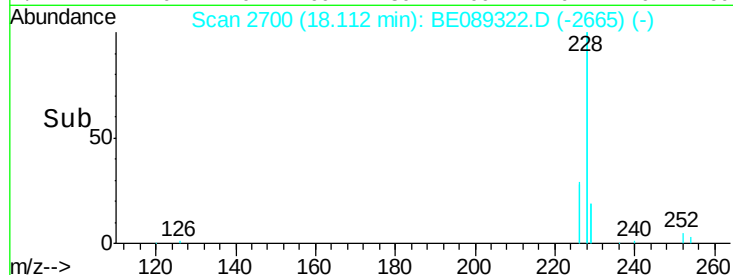
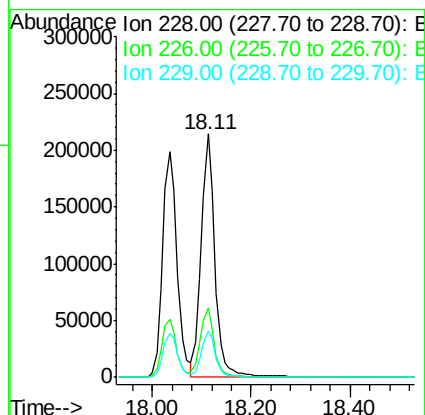
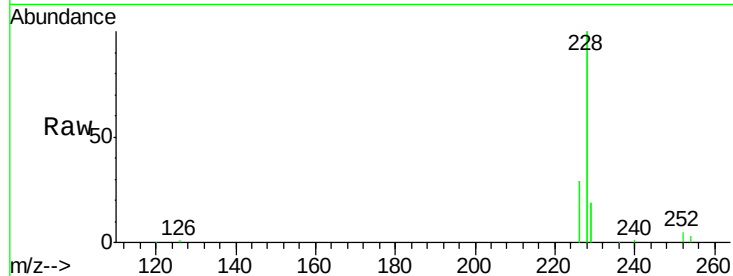
Tgt Ion:228 Resp: 414466

Ion Ratio Lower Upper

228 100

226 28.6 23.2 34.8

229 19.3 16.2 24.2



#26

Indeno(1,2,3-cd)pyrene

Concen: 5.88 ng

RT: 23.19 min Scan# 3633

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

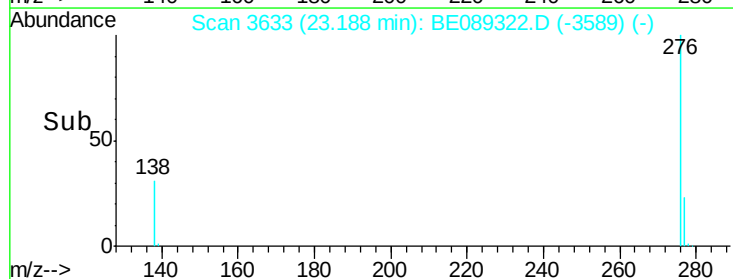
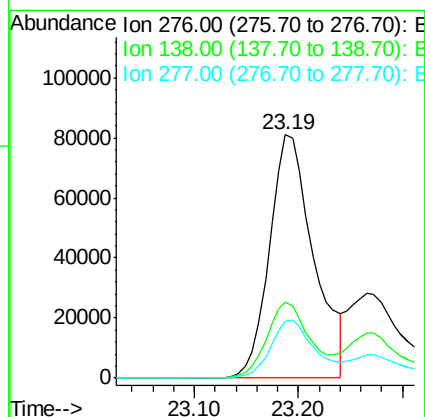
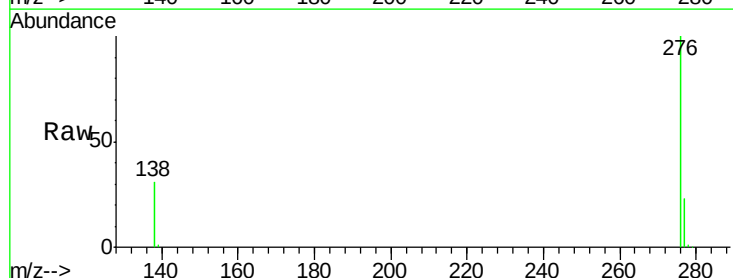
Tgt Ion:276 Resp: 238186

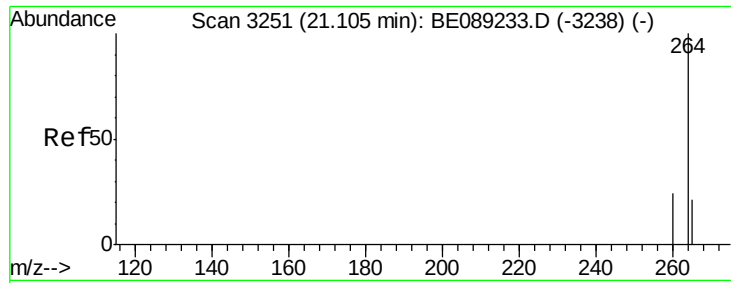
Ion Ratio Lower Upper

276 100

138 30.5 23.4 35.2

277 23.7 19.0 28.4

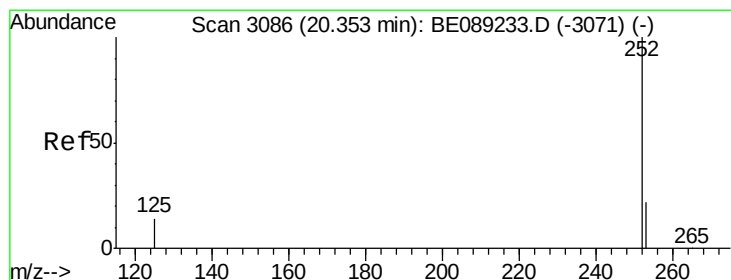
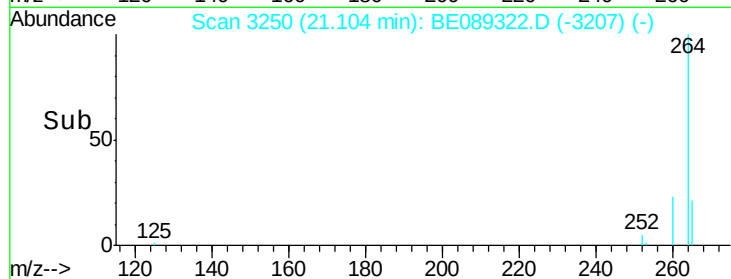
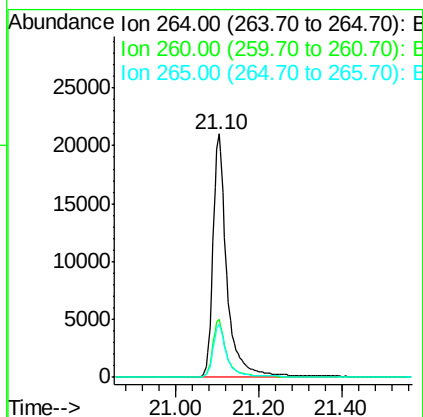
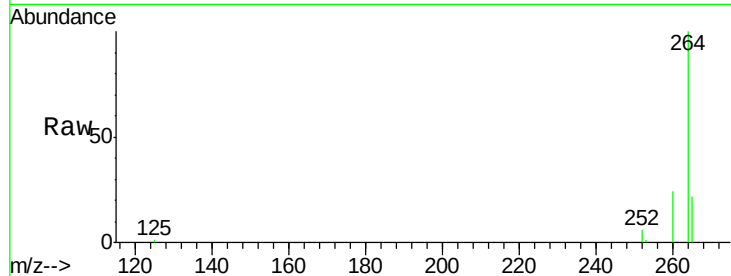




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 21.10 min Scan# 3250
 Delta R.T. -0.00 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

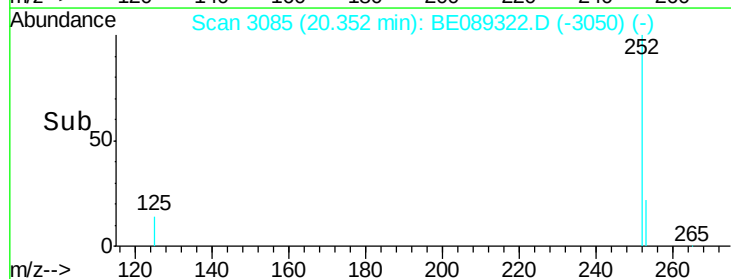
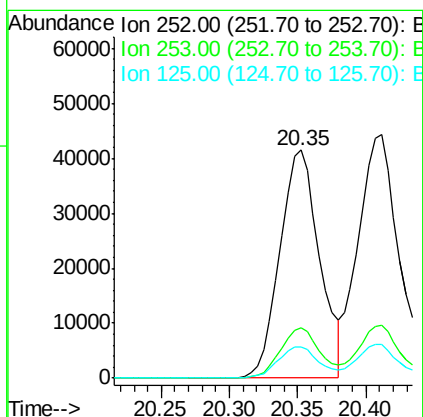
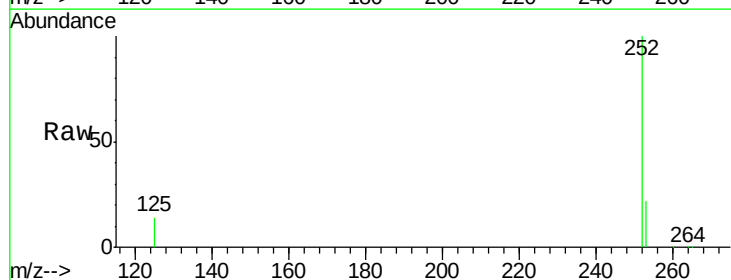
Instrument :
 BNA_E
 ClientSampled :

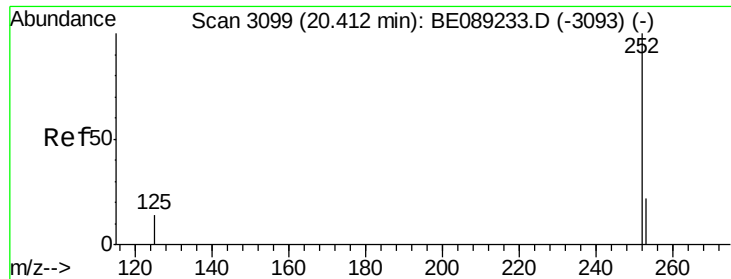
Tgt Ion:264 Resp: 48657
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.4 29.0
 265 21.6 17.1 25.7



#28
Benzo(b)fluoranthene
 Concen: 9.24 ng
 RT: 20.35 min Scan# 3085
 Delta R.T. -0.00 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Tgt Ion:252 Resp: 83709
 Ion Ratio Lower Upper
 252 100
 253 21.9 18.1 27.1
 125 13.8 12.2 18.4





#29

Benzo(k)fluoranthene

Concen: 8.38 ng

RT: 20.41 min Scan# 3098

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :

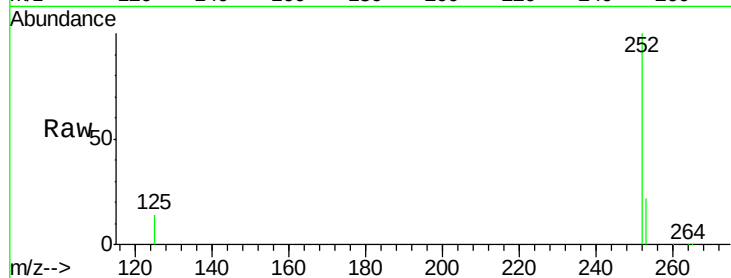
Tgt Ion: 252 Resp: 103582

Ion Ratio Lower Upper

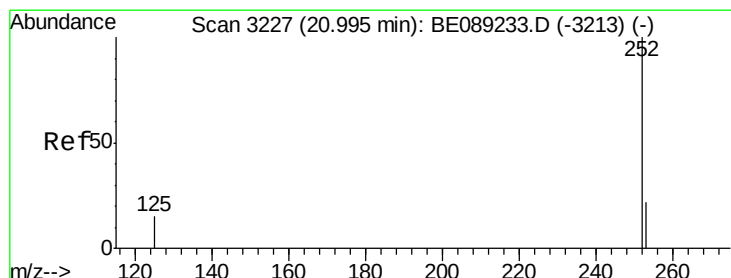
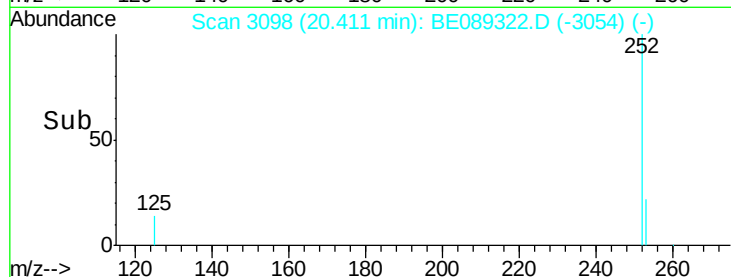
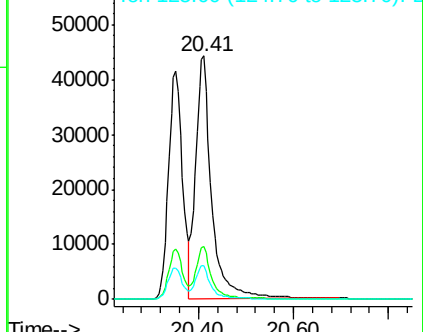
252 100

253 22.0 18.1 27.1

125 13.7 12.1 18.1



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



#30

Benzo(a)pyrene

Concen: 9.47 ng

RT: 20.99 min Scan# 3225

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

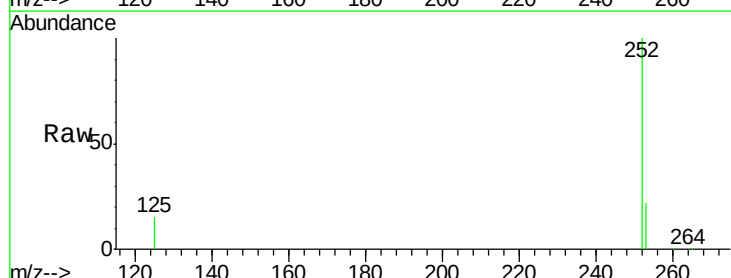
Tgt Ion: 252 Resp: 84314

Ion Ratio Lower Upper

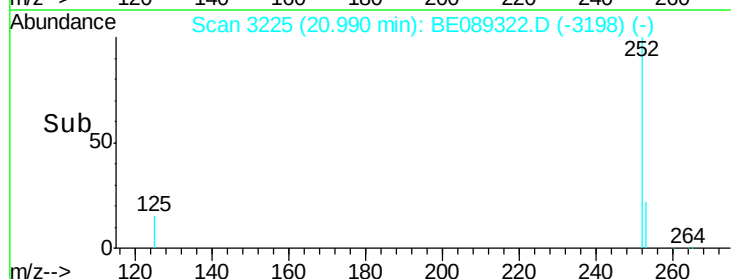
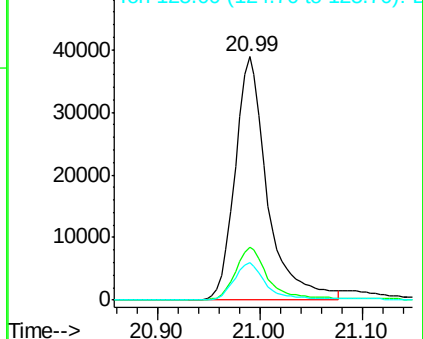
252 100

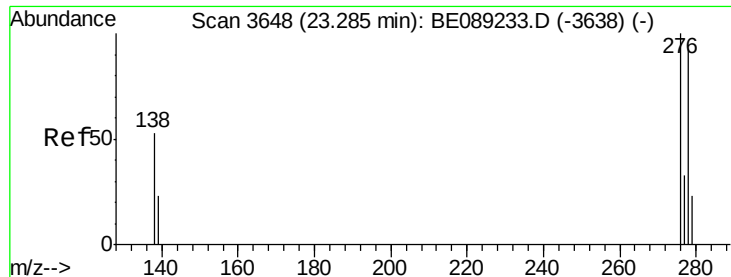
253 21.7 18.3 27.5

125 15.4 13.5 20.3



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





#31

Dibenzo(a,h)anthracene

Concen: 8.89 ng

RT: 23.27 min Scan# 3646

Delta R.T. -0.01 min

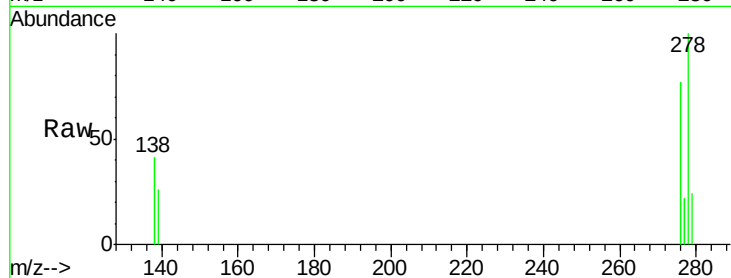
Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :



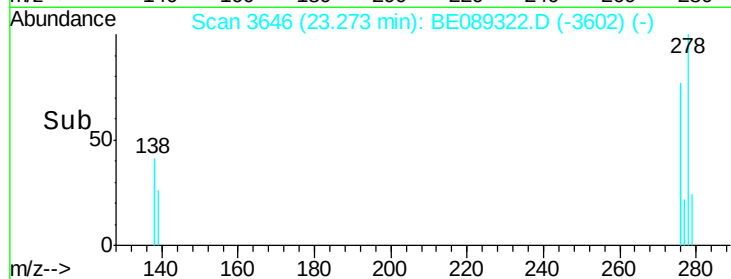
Tgt Ion: 278 Resp: 67898

Ion Ratio Lower Upper

278 100

139 26.1 23.2 34.8

279 24.0 21.7 32.5



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

