

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022615\
 Data File : BE089710.D
 Acq On : 27 Feb 2015 4:00
 Operator : TP/JJ
 Sample : PB81904BS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81904BSD

Quant Time: Feb 27 05:24:05 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE022615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 27 05:11:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.33	152	43191	5.00	ng	0.00
7) Naphthalene-d8	12.23	136	181848	5.00	ng	0.00
13) Acenaphthene-d10	16.41	164	83705	5.00	ng	0.00
17) Phenanthrene-d10	19.76	188	148241	5.00	ng	0.00
20) Chrysene-d12	23.65	240	130476	5.00	ng	0.00
27) Perylene-d12	25.33	264	99134	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.49	112	156774	15.00	ng	0.00
4) Phenol-d6	8.61	99	210902	14.86	ng	0.00
8) Nitrobenzene-d5	10.60	82	118582	10.51	ng	0.00
14) 2,4,6-Tribromophenol	18.31	330	19654	13.60	ng	0.00
15) 2-Fluorobiphenyl	14.87	172	202697	10.90	ng	0.00
22) Terphenyl-d14	22.30	244	186723	11.81	ng	0.00

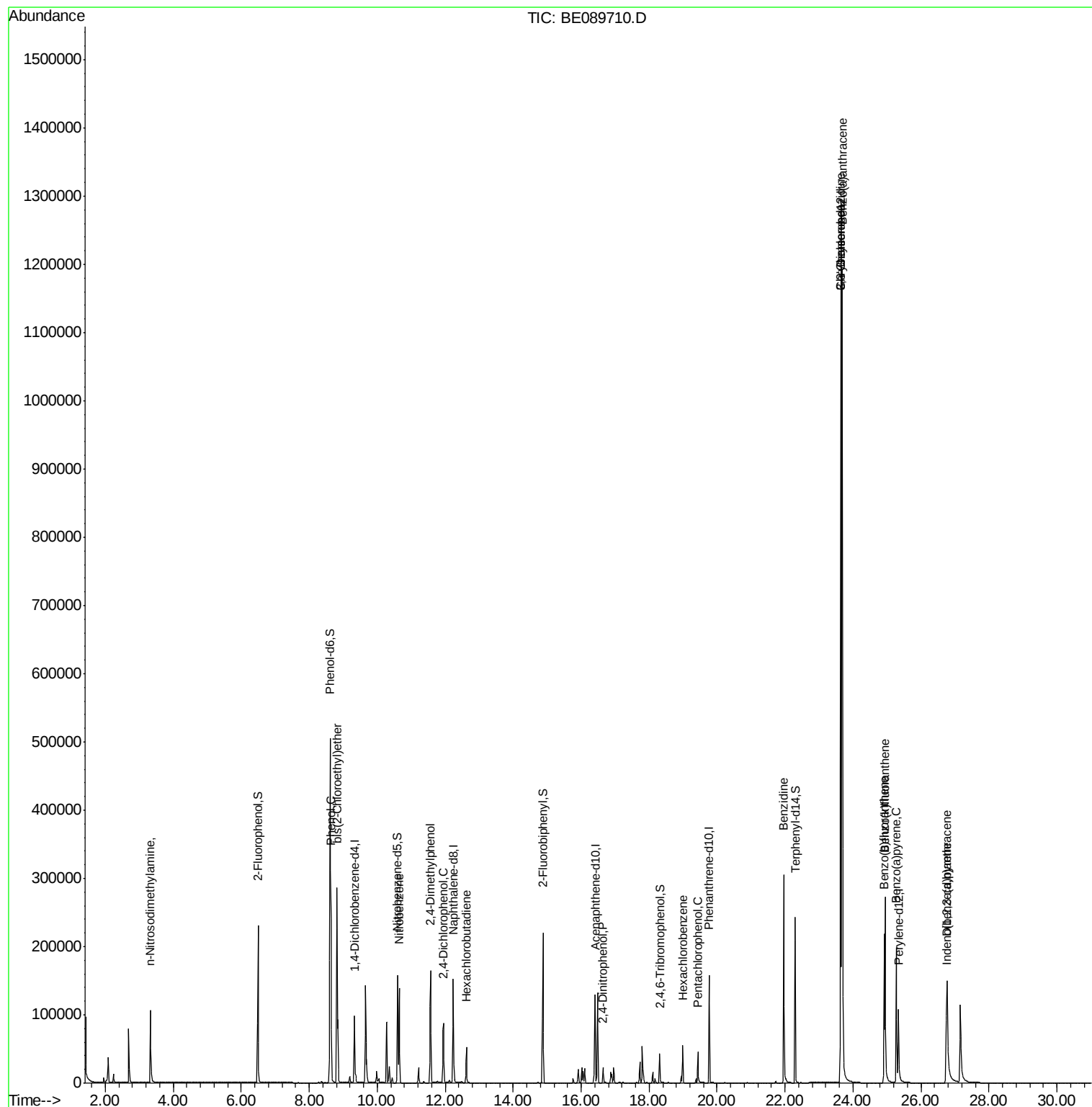
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.32	42	64538	8.74	ng	# 77
5) Phenol	8.64	94	150495	9.71	ng	# 61
6) bis(2-Chloroethyl)ether	8.82	93	122090	10.05	ng	# 98
9) Nitrobenzene	10.64	77	126140	11.78	ng	97
10) 2,4-Dimethylphenol	11.57	122	86721	10.41	ng	99
11) 2,4-Dichlorophenol	11.95	162	68358	11.21	ng	96
12) Hexachlorobutadiene	12.62	225	32675	9.44	ng	100
16) 2,4-Dinitrophenol	16.65	184	13089	14.71	ng	# 86
18) Hexachlorobenzene	18.99	284	39688	10.29	ng	88
19) Pentachlorophenol	19.43	266	28557	14.73	ng	94
21) Benzidine	21.96	184	304227	17.04	ng	98
23) Benzo(a)anthracene	23.69	228	1117417	12.05	ng	97
24) 3,3'-Dichlorobenzidine	23.63	252	81444	9.70	ng	# 97
25) Chrysene	23.63	228	1034127	9.06	ng	99
26) Indeno(1,2,3-cd)pyrene	26.74	276	199456	8.96	ng	# 79
28) Benzo(b)fluoranthene	24.91	252	182962	9.92	ng	99
29) Benzo(k)fluoranthene	24.94	252	270854	9.91	ng	99
30) Benzo(a)pyrene	25.27	252	187091	10.10	ng	99
31) Dibenzo(a,h)anthracene	26.77	278	161917	9.61	ng	100

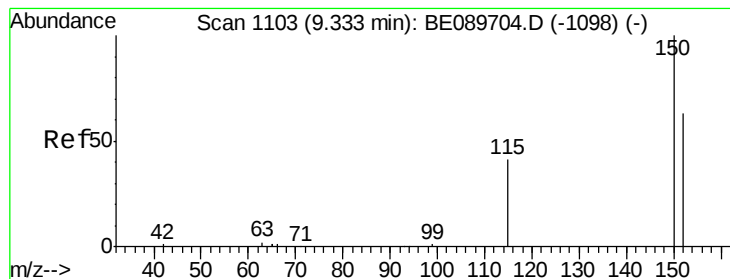
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.33 min Scan# 1103

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD

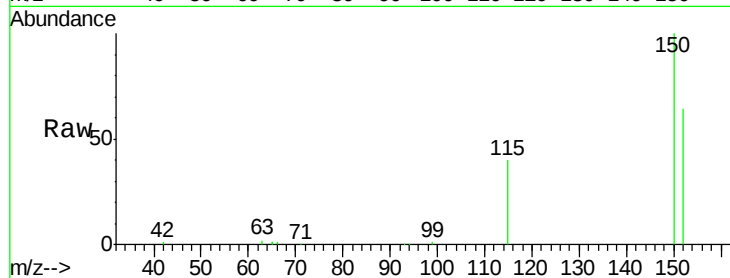
Tgt Ion:152 Resp: 43191

Ion Ratio Lower Upper

152 100

150 155.5 127.3 190.9

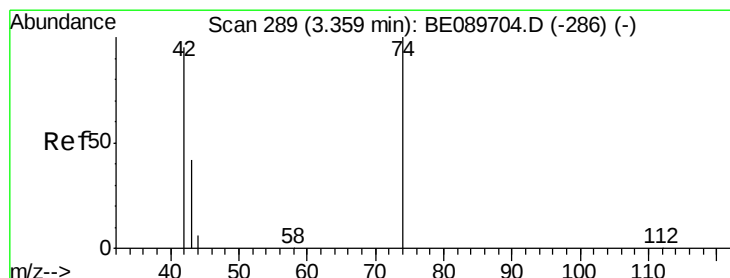
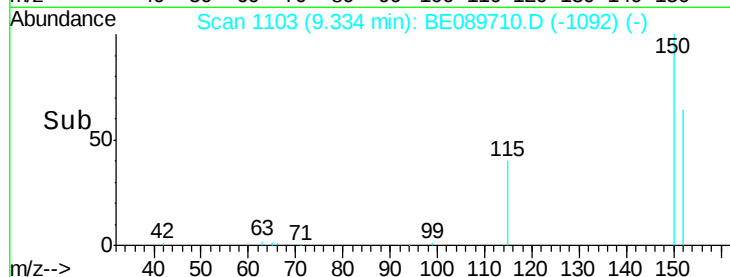
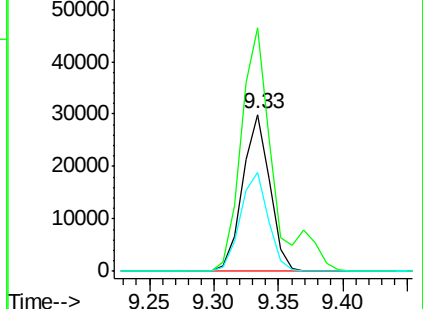
115 62.9 52.0 78.0



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

n-Nitrosodimethylamine

Concen: 8.74 ng

RT: 3.32 min Scan# 284

Delta R.T. -0.03 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

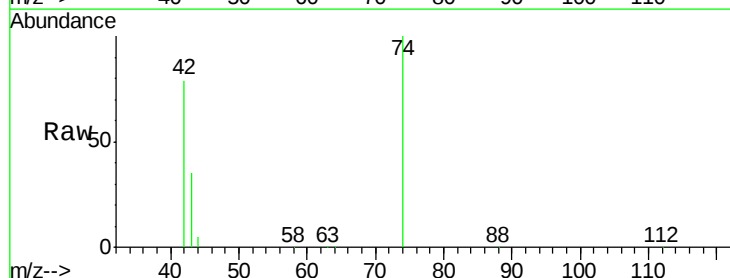
Tgt Ion: 42 Resp: 64538

Ion Ratio Lower Upper

42 100

74 125.8 83.8 125.8#

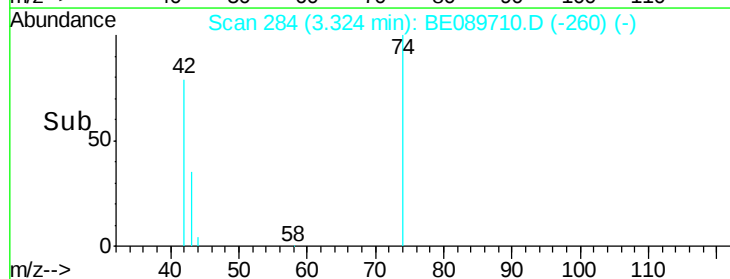
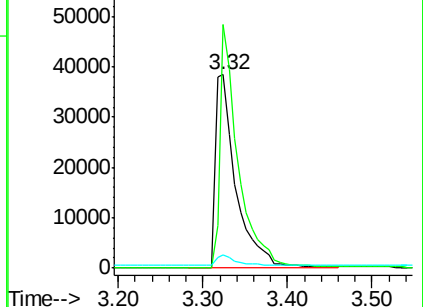
44 6.8 19.0 28.6#

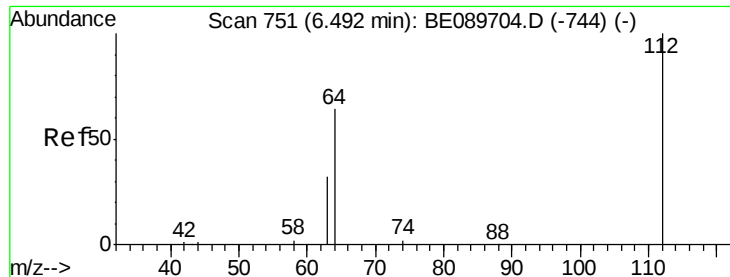


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

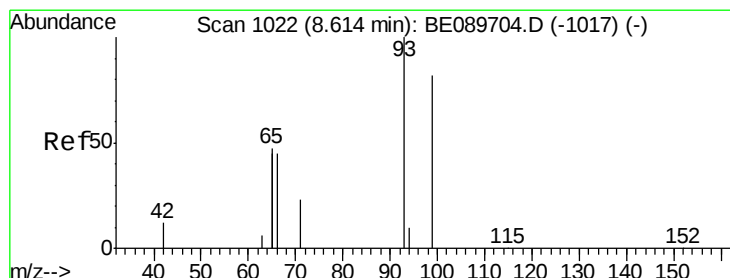
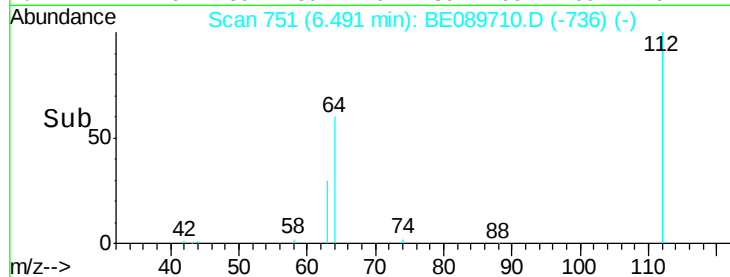
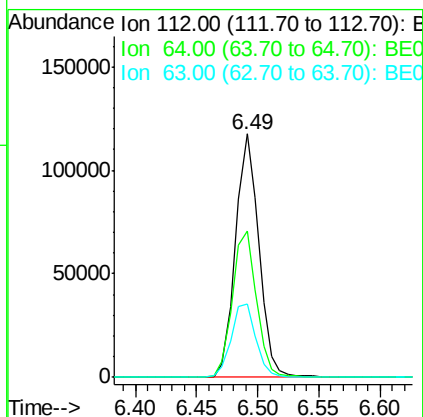
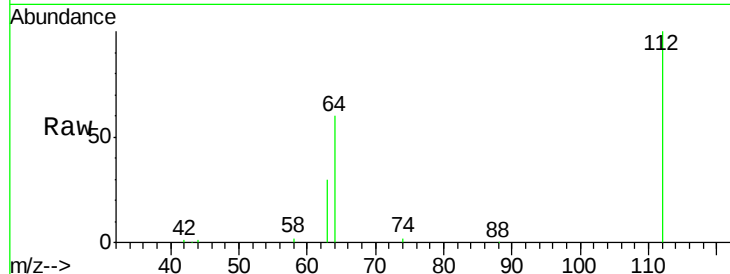




#3
 2-Fluorophenol
 Concen: 15.00 ng
 RT: 6.49 min Scan# 751
 Delta R.T. -0.00 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

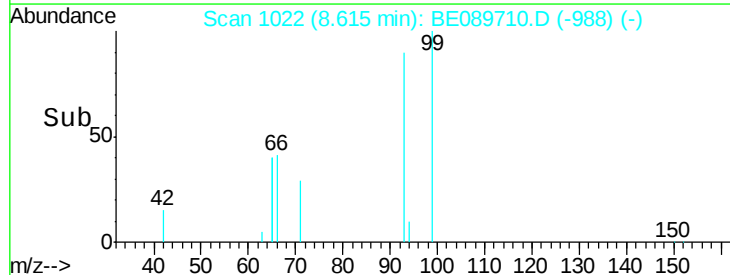
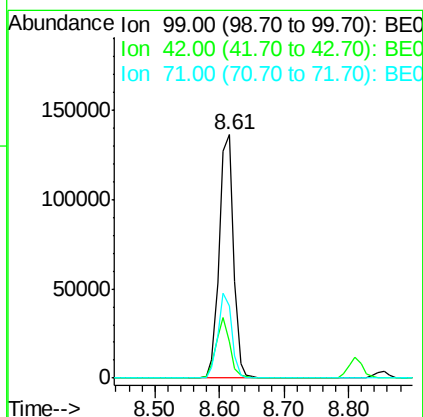
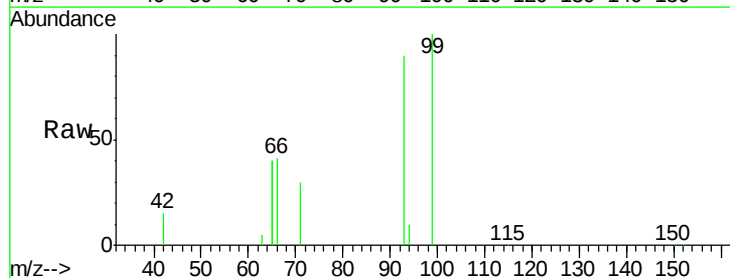
Instrument :
 BNA_E
 ClientSampleId :
 PB81904BSD

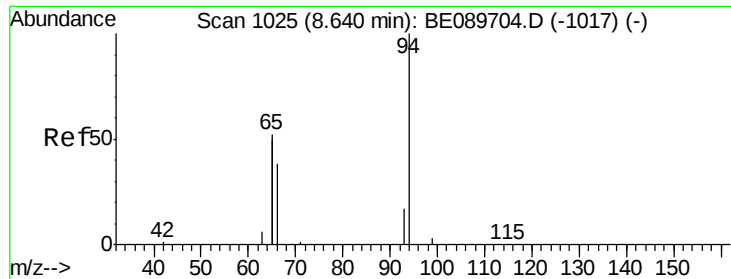
Tgt Ion: 112 Resp: 156774
 Ion Ratio Lower Upper
 112 100
 64 60.0 51.3 76.9
 63 30.0 26.2 39.2



#4
 Phenol-d6
 Concen: 14.86 ng
 RT: 8.61 min Scan# 1022
 Delta R.T. 0.00 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

Tgt Ion: 99 Resp: 210902
 Ion Ratio Lower Upper
 99 100
 42 15.0 12.3 18.5
 71 29.5 22.9 34.3





#5

Phenol

Concen: 9.71 ng

RT: 8.64 min Scan# 1025

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD

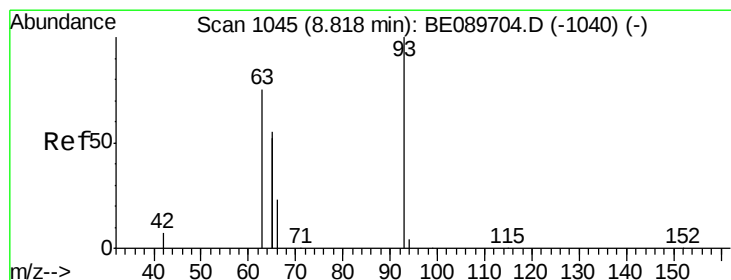
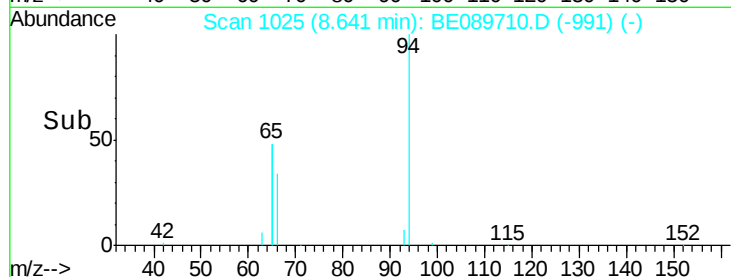
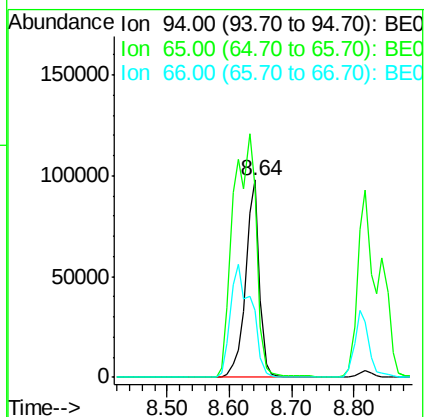
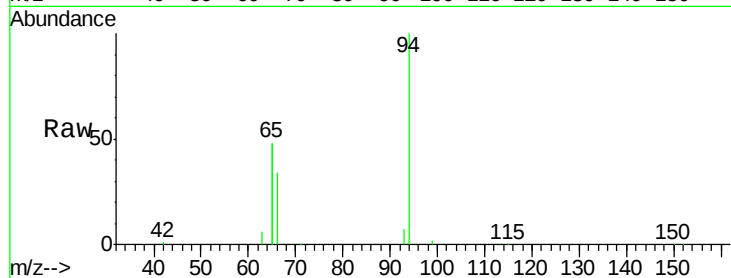
Tgt Ion: 94 Resp: 150495

Ion Ratio Lower Upper

94 100

65 96.3 31.7 71.7#

66 34.2 17.9 57.9



#6

bis(2-Chloroethyl)ether

Concen: 10.05 ng

RT: 8.82 min Scan# 1045

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

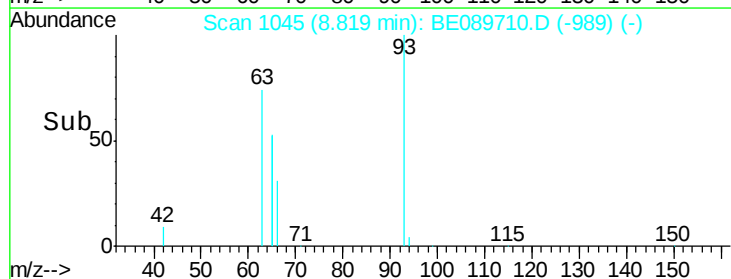
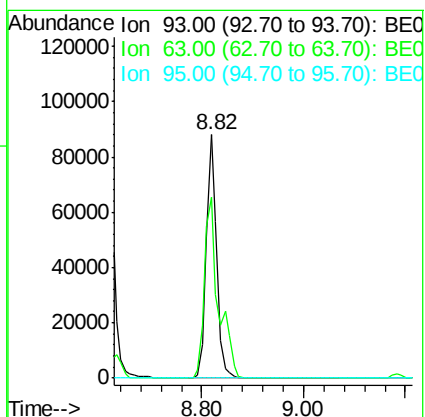
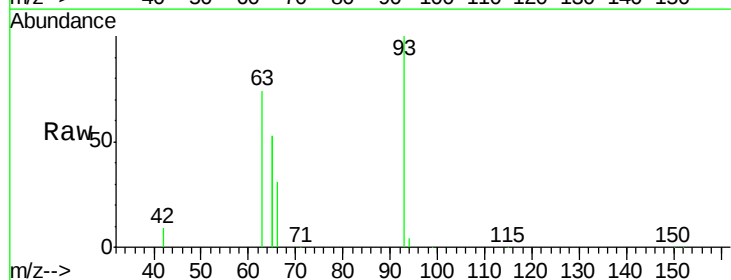
Tgt Ion: 93 Resp: 122090

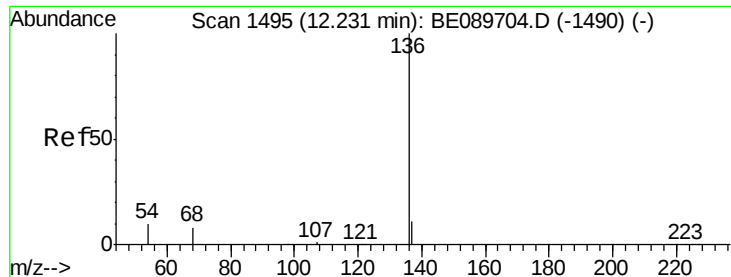
Ion Ratio Lower Upper

93 100

63 103.2 83.8 125.8

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.23 min Scan# 1495

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD

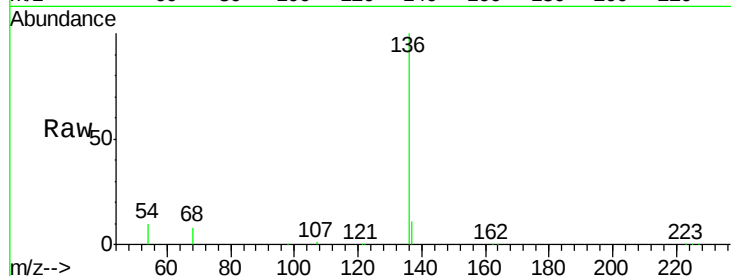
Tgt Ion: 136 Resp: 181848

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

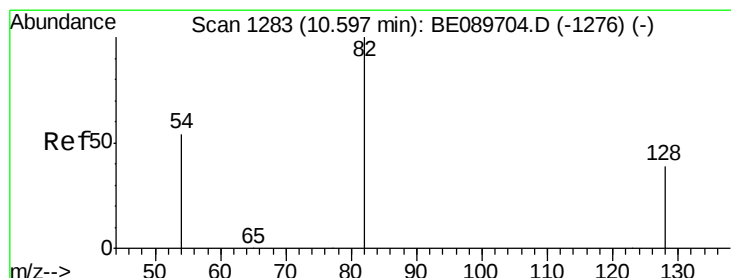
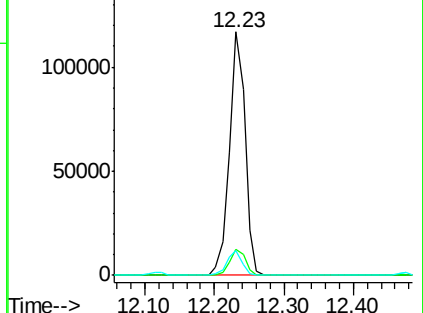
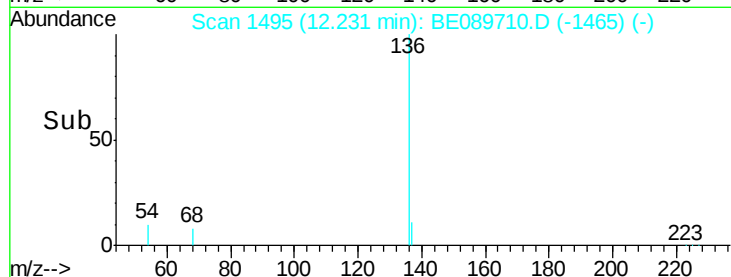
54 10.0 8.1 12.1



Abundance Ion 136.00 (135.70 to 136.70): BE089710.D (-1465) (-)

Ion 137.00 (136.70 to 137.70): BE089710.D (-1465) (-)

Ion 54.00 (53.70 to 54.70): BE089710.D (-1465) (-)



#8

Nitrobenzene-d5

Concen: 10.51 ng

RT: 10.60 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

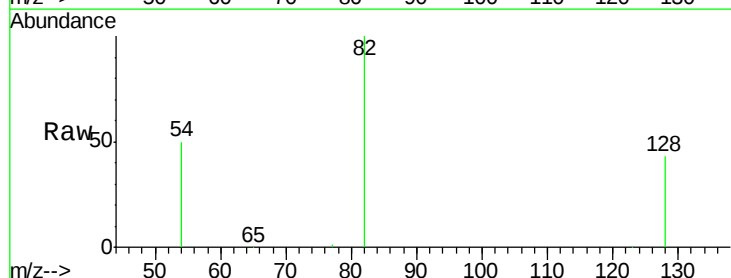
Tgt Ion: 82 Resp: 118582

Ion Ratio Lower Upper

82 100

128 42.9 31.4 47.2

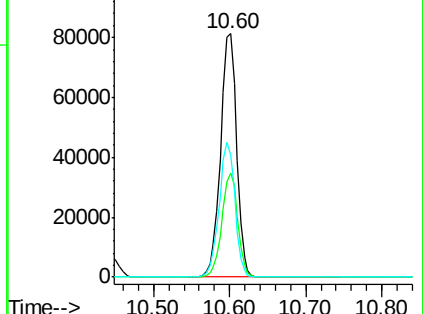
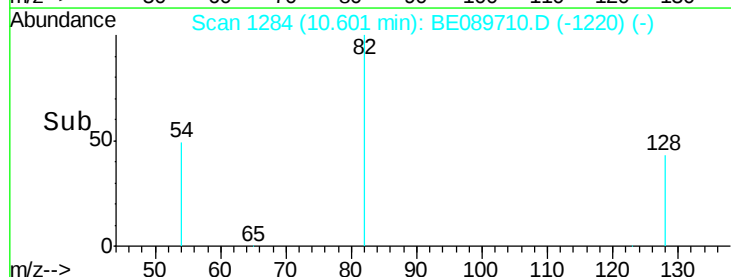
54 50.1 43.8 65.8

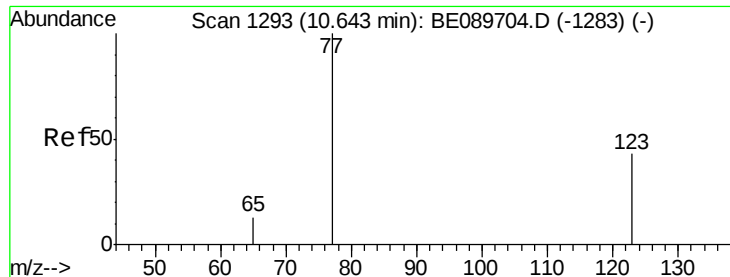


Abundance Ion 82.00 (81.70 to 82.70): BE089710.D (-1220) (-)

Ion 128.00 (127.70 to 128.70): BE089710.D (-1220) (-)

Ion 54.00 (53.70 to 54.70): BE089710.D (-1220) (-)





#9

Nitrobenzene

Concen: 11.78 ng

RT: 10.64 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

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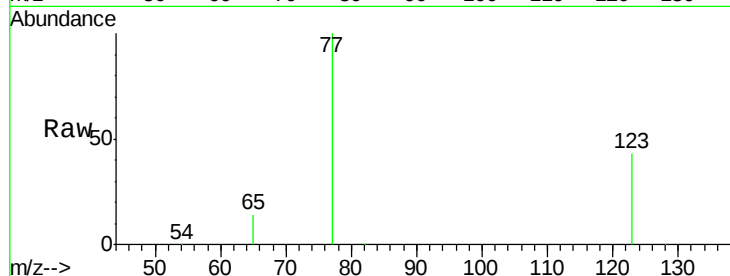
Tgt Ion: 77 Resp: 126140

Ion Ratio Lower Upper

77 100

123 43.7 33.2 49.8

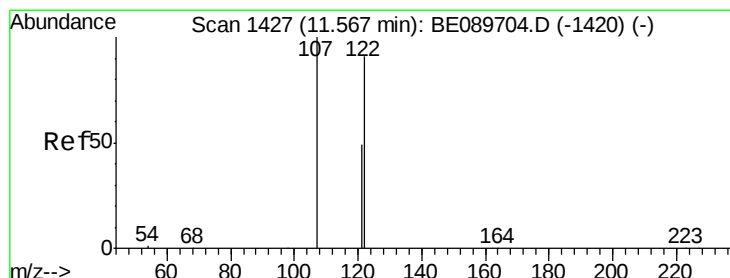
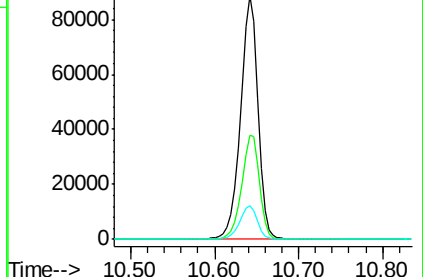
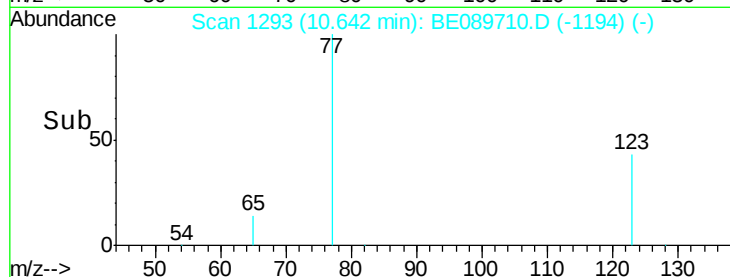
65 14.1 10.6 15.8



Abundance Ion 77.00 (76.70 to 77.70): BE089710.D (-1194) (-)

Ion 123.00 (122.70 to 123.70): BE089710.D (-1194) (-)

Ion 65.00 (64.70 to 65.70): BE089710.D (-1194) (-)



#10

2,4-Dimethylphenol

Concen: 10.41 ng

RT: 11.57 min Scan# 1427

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

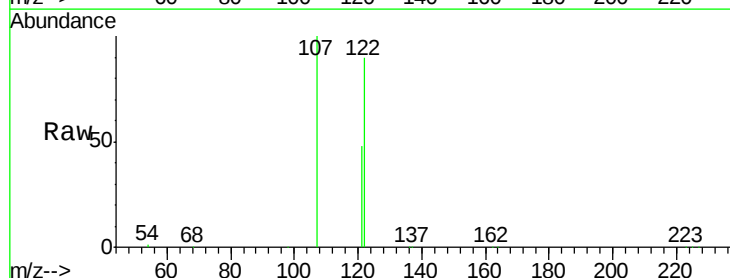
Tgt Ion: 122 Resp: 86721

Ion Ratio Lower Upper

122 100

107 111.3 87.6 131.4

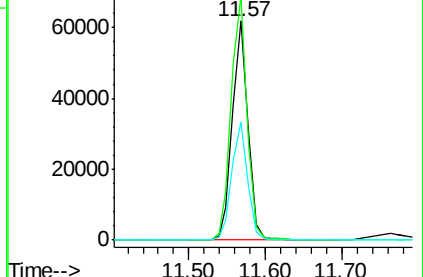
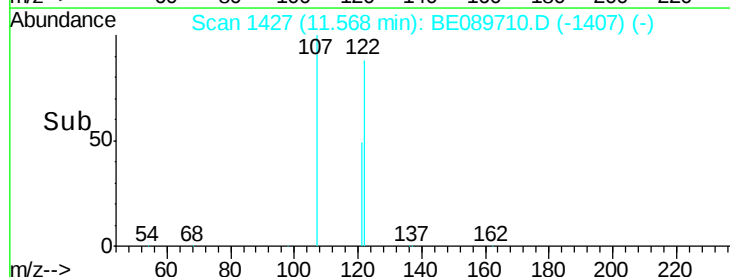
121 54.0 43.4 65.2

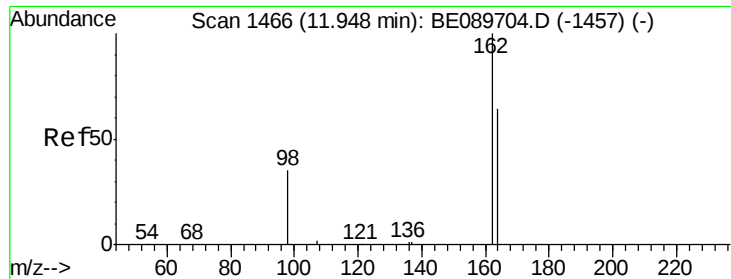


Abundance Ion 122.00 (121.70 to 122.70): BE089710.D (-1407) (-)

Ion 107.00 (106.70 to 107.70): BE089710.D (-1407) (-)

Ion 121.00 (120.70 to 121.70): BE089710.D (-1407) (-)

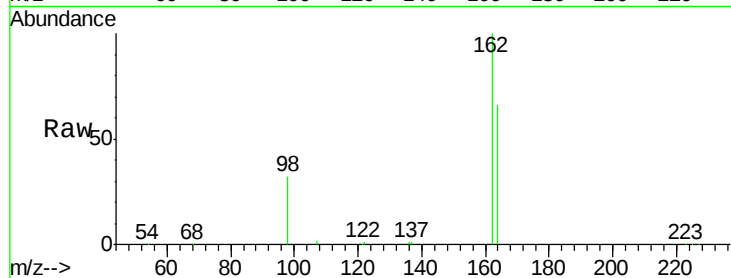




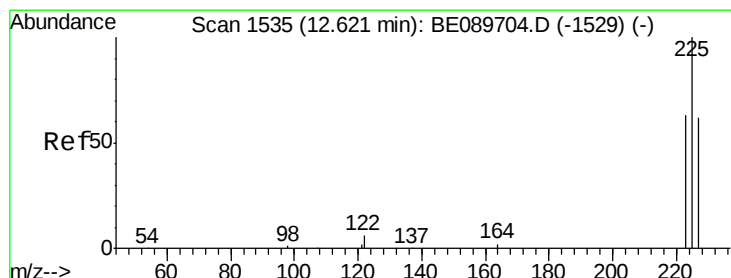
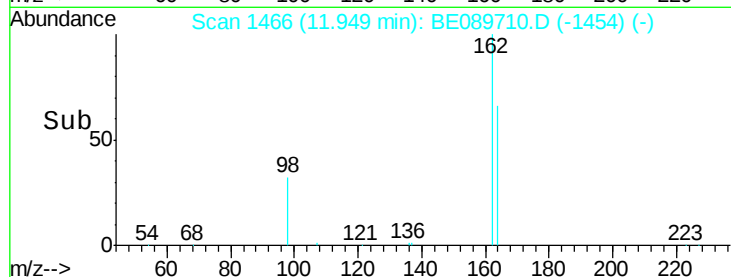
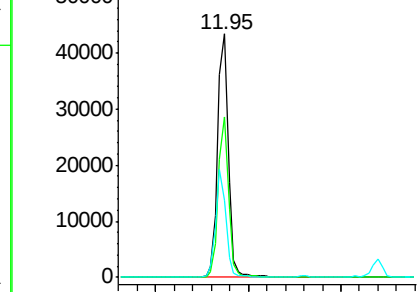
#11
 2,4-Dichlorophenol
 Concen: 11.21 ng
 RT: 11.95 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

Instrument :
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 PB81904BSD

Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.9	43.9	83.9
98	31.7	15.7	55.7

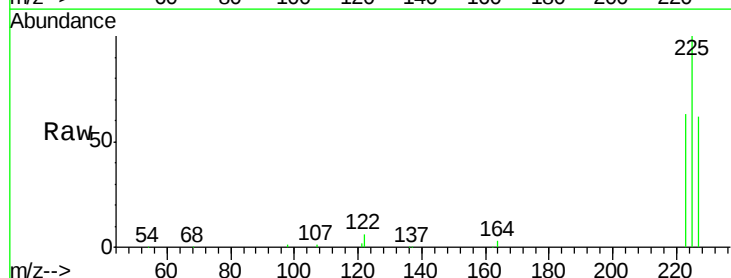


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BE0

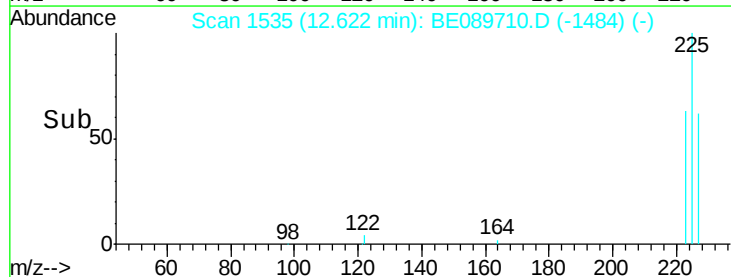
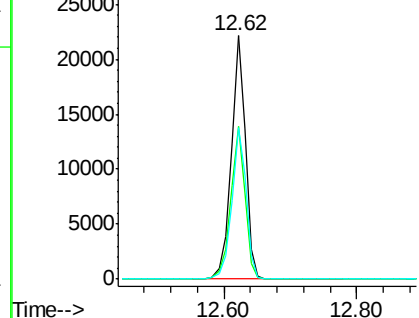


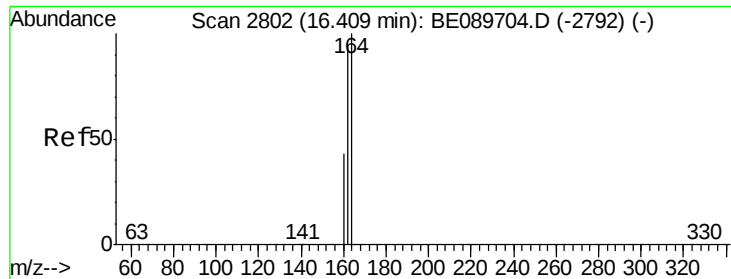
#12
 Hexachlorobutadiene
 Concen: 9.44 ng
 RT: 12.62 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	75.8
227	63.1	50.8	76.2



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

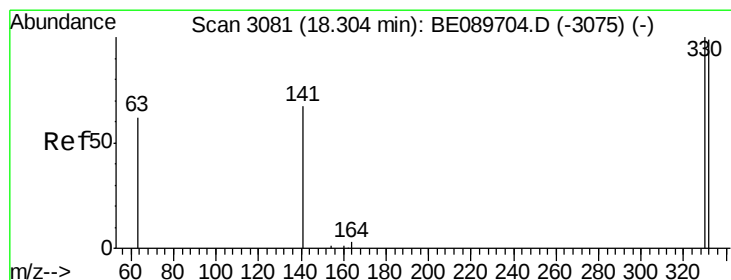
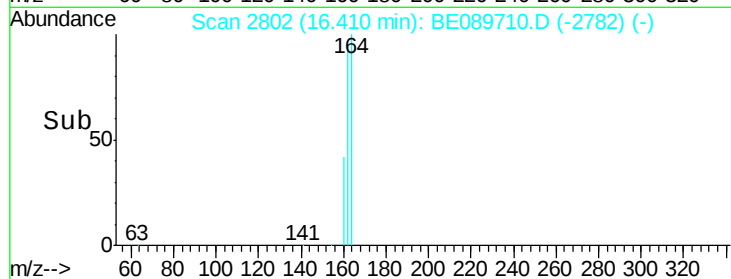
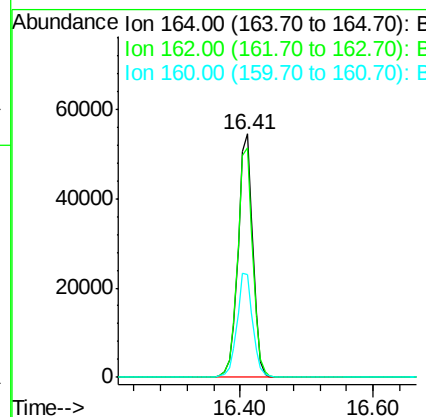
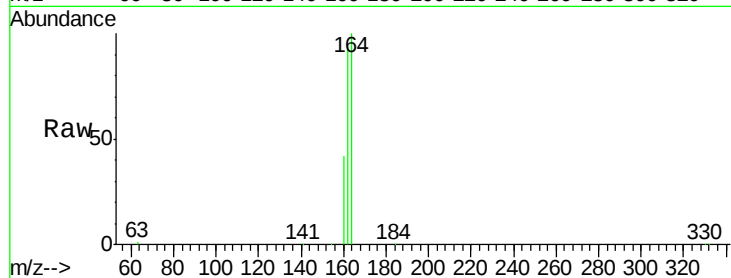




#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.41 min Scan# 2802
Delta R.T. 0.00 min
Lab File: BE089710.D
Acq: 27 Feb 2015 4:00

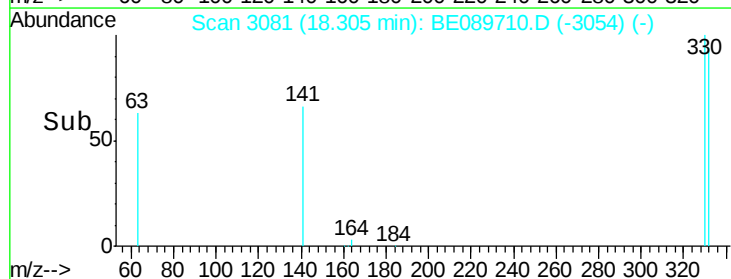
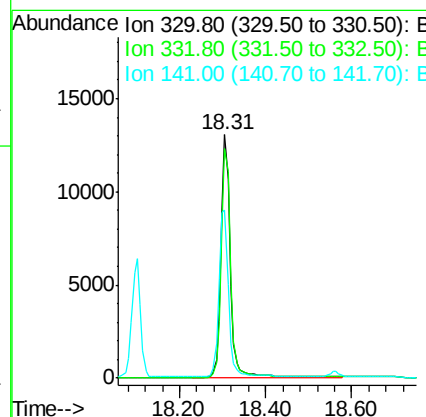
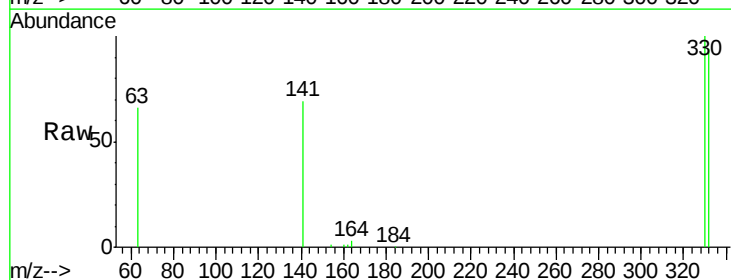
Instrument :
BNA_E
ClientSampleId :
PB81904BSD

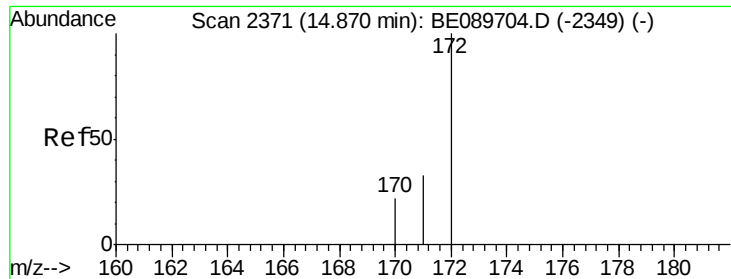
Tgt Ion:164 Resp: 83705
Ion Ratio Lower Upper
164 100
162 94.1 75.0 112.6
160 42.5 34.3 51.5



#14
2,4,6-Tribromophenol
Concen: 13.60 ng
RT: 18.31 min Scan# 3081
Delta R.T. 0.00 min
Lab File: BE089710.D
Acq: 27 Feb 2015 4:00

Tgt Ion:330 Resp: 19654
Ion Ratio Lower Upper
330 100
332 96.1 0.0 0.0#
141 72.5 0.0 0.0#

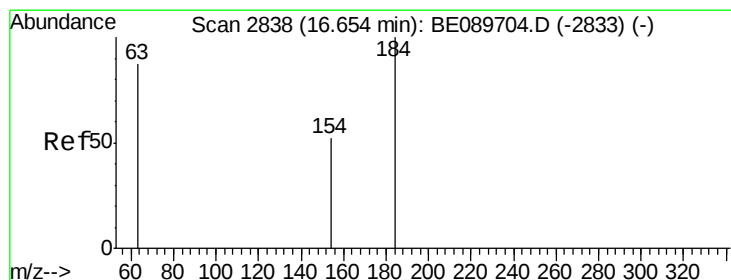
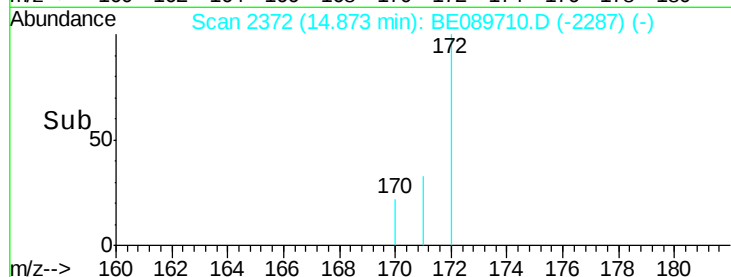
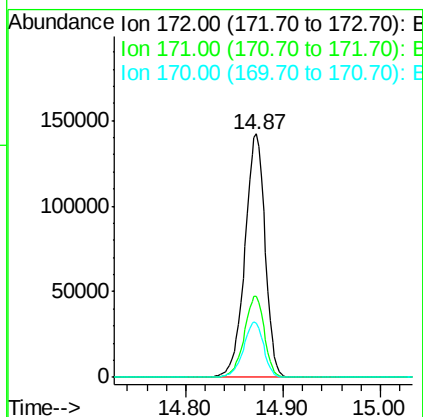
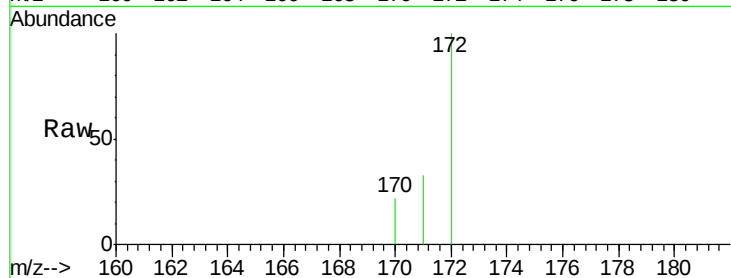




#15
2-Fluorobiphenyl
Concen: 10.90 ng
RT: 14.87 min Scan# 2372
Delta R.T. 0.00 min
Lab File: BE089710.D
Acq: 27 Feb 2015 4:00

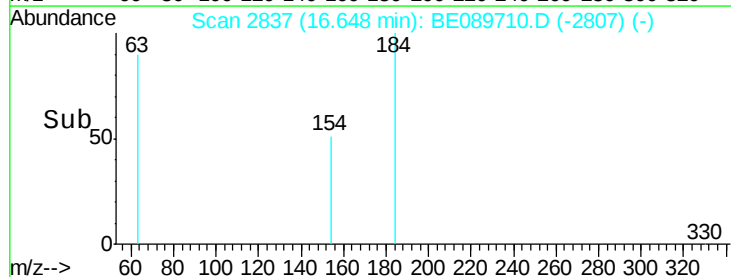
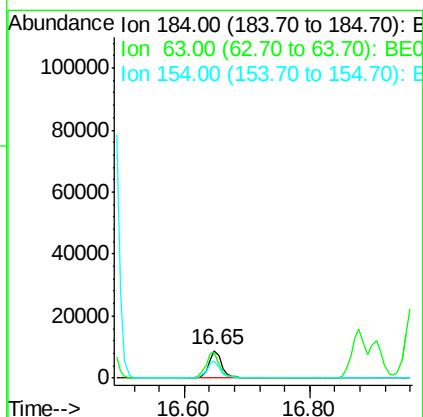
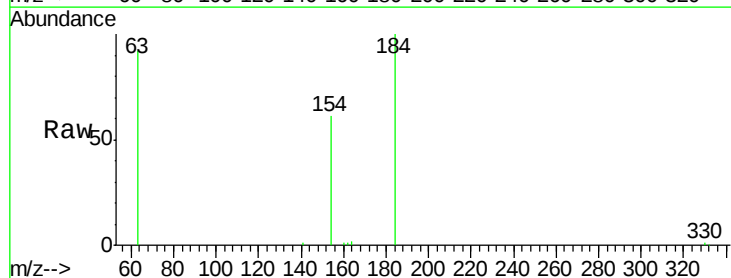
Instrument :
BNA_E
ClientSampleId :
PB81904BSD

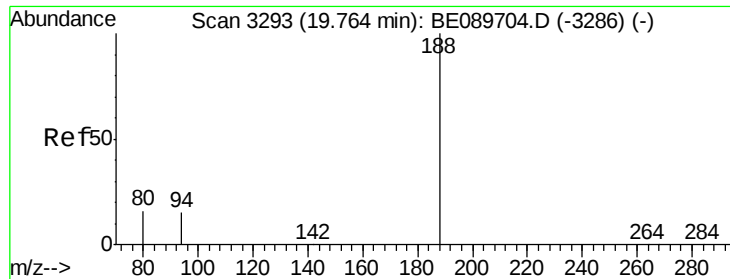
Tgt Ion:172 Resp: 202697
Ion Ratio Lower Upper
172 100
171 33.2 26.8 40.2
170 22.1 18.0 27.0



#16
2,4-Dinitrophenol
Concen: 14.71 ng
RT: 16.65 min Scan# 2837
Delta R.T. -0.01 min
Lab File: BE089710.D
Acq: 27 Feb 2015 4:00

Tgt Ion:184 Resp: 13089
Ion Ratio Lower Upper
184 100
63 92.0 82.4 123.6
154 61.3 61.4 92.2#

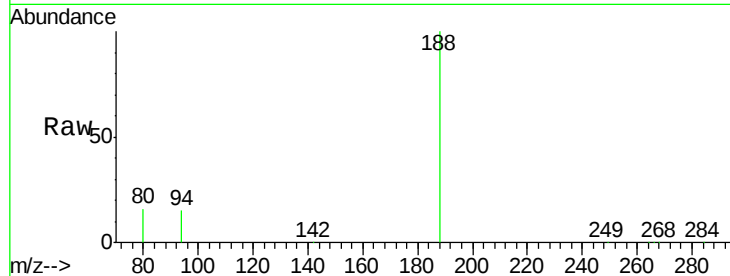




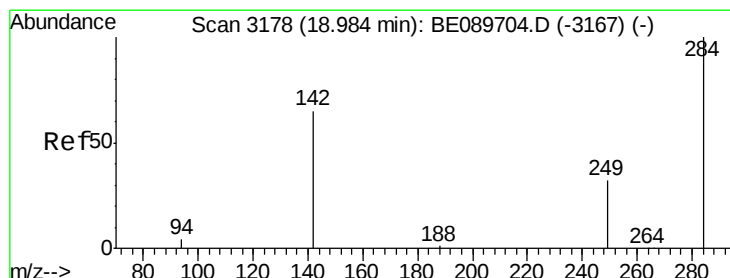
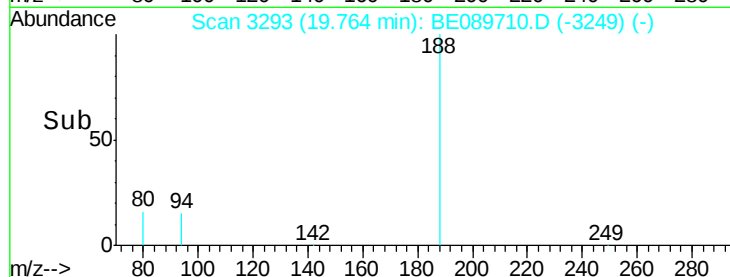
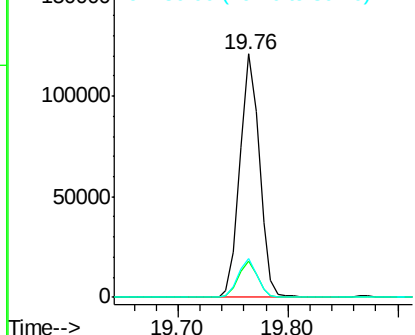
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3293
Delta R.T. -0.00 min
Lab File: BE089710.D
Acq: 27 Feb 2015 4:00

Instrument :
BNA_E
ClientSampleId :
PB81904BSD

Tgt Ion:188 Resp: 148241
Ion Ratio Lower Upper
188 100
94 14.9 12.1 18.1
80 15.7 12.7 19.1

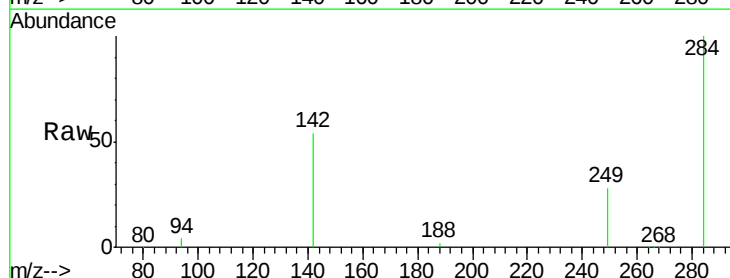


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

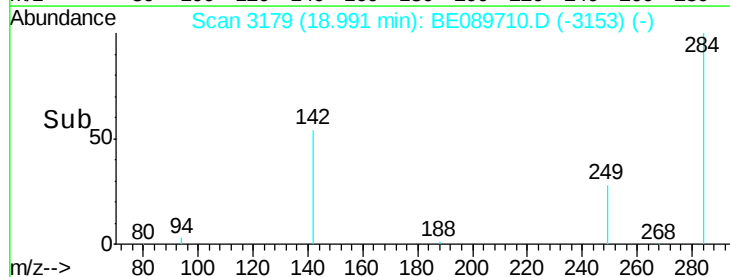
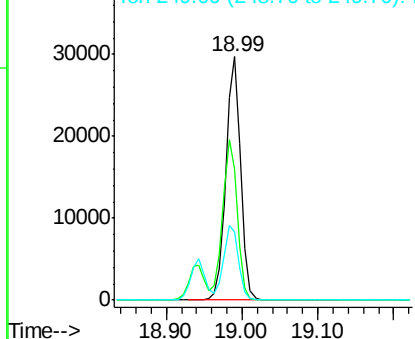


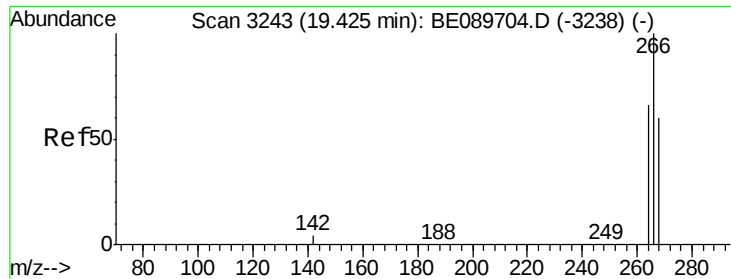
#18
Hexachlorobenzene
Concen: 10.29 ng
RT: 18.99 min Scan# 3179
Delta R.T. 0.01 min
Lab File: BE089710.D
Acq: 27 Feb 2015 4:00

Tgt Ion:284 Resp: 39688
Ion Ratio Lower Upper
284 100
142 53.9 52.2 78.4
249 28.3 26.4 39.6



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

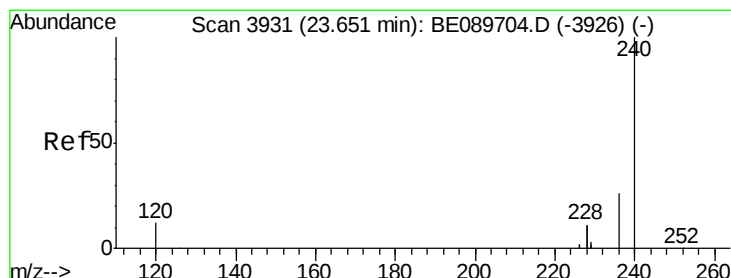
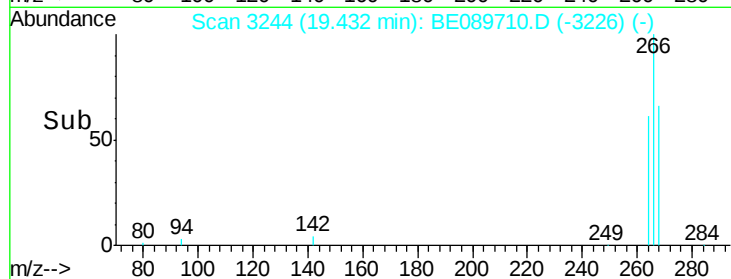
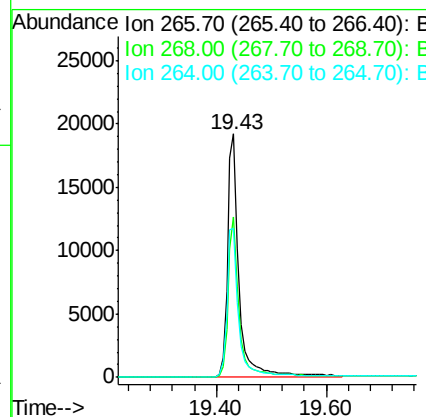
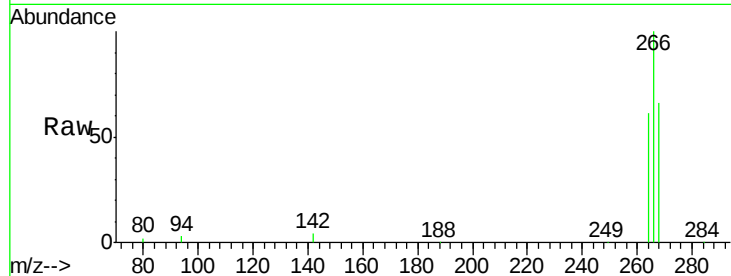




#19
 Pentachlorophenol
 Concen: 14.73 ng
 RT: 19.43 min Scan# 3244
 Delta R.T. 0.01 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

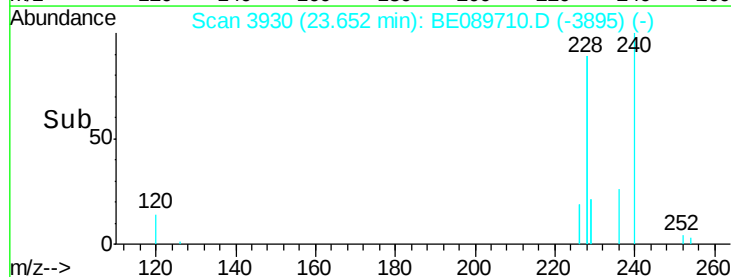
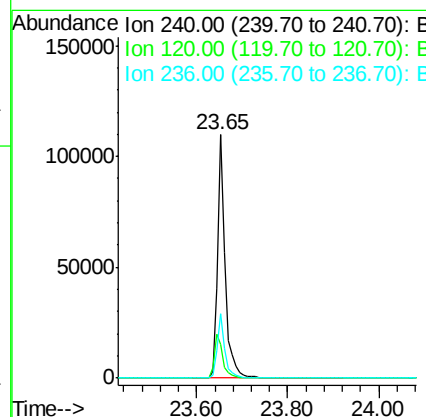
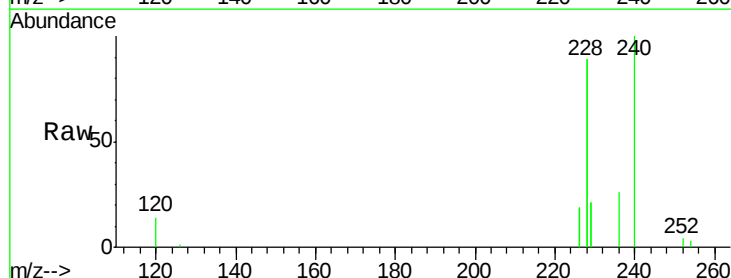
Instrument :
 BNA_E
 ClientSampleId :
 PB81904BSD

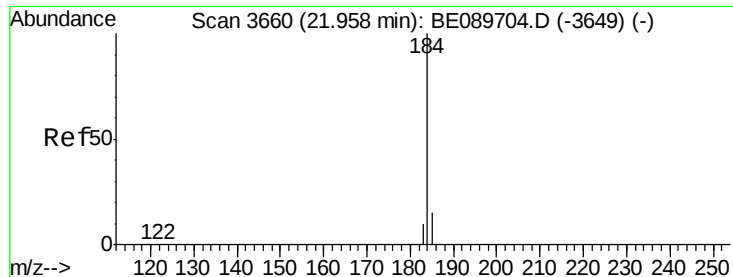
Tgt Ion: 266 Resp: 28557
 Ion Ratio Lower Upper
 266 100
 268 65.8 51.4 77.2
 264 61.4 55.8 83.8



#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.65 min Scan# 3930
 Delta R.T. 0.00 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

Tgt Ion: 240 Resp: 130476
 Ion Ratio Lower Upper
 240 100
 120 14.0 9.9 14.9
 236 26.3 21.0 31.6





#21

Benzidine

Concen: 17.04 ng

RT: 21.96 min Scan# 3660

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD

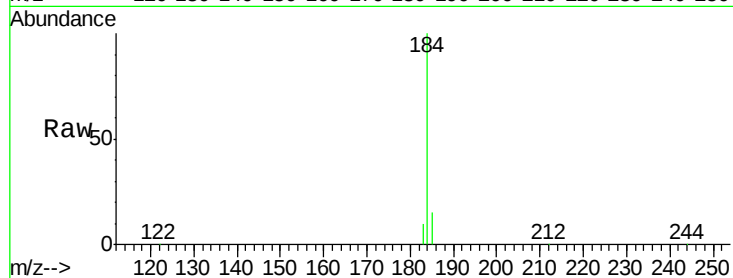
Tgt Ion:184 Resp: 304227

Ion Ratio Lower Upper

184 100

185 14.9 12.8 19.2

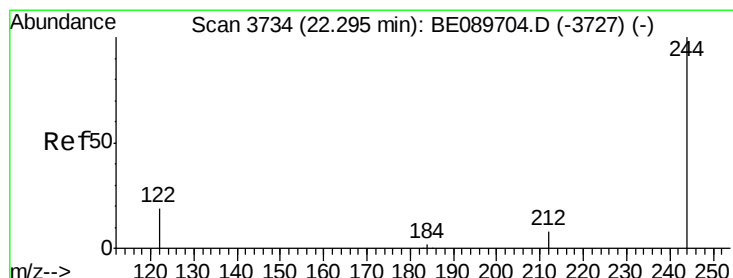
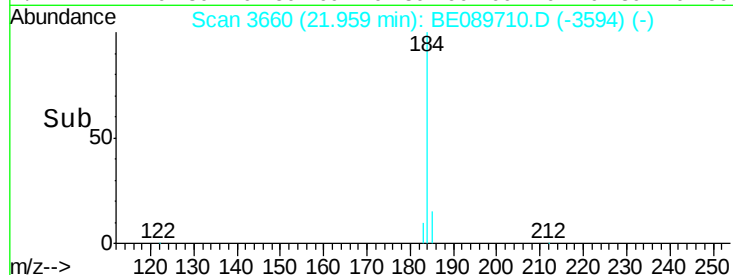
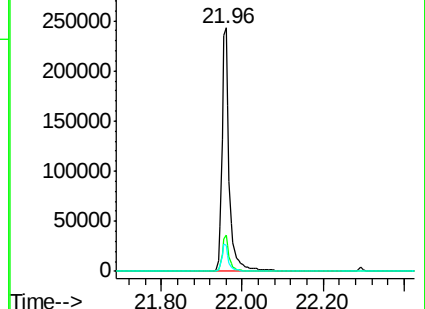
183 10.5 8.8 13.2



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#22

Terphenyl-d14

Concen: 11.81 ng

RT: 22.30 min Scan# 3734

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

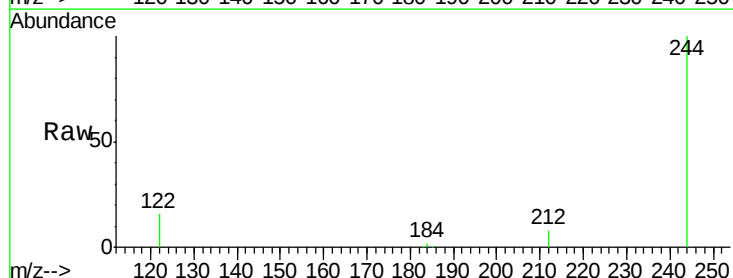
Tgt Ion:244 Resp: 186723

Ion Ratio Lower Upper

244 100

212 8.1 6.7 10.1

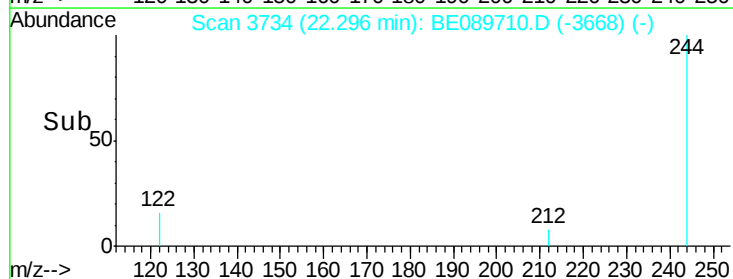
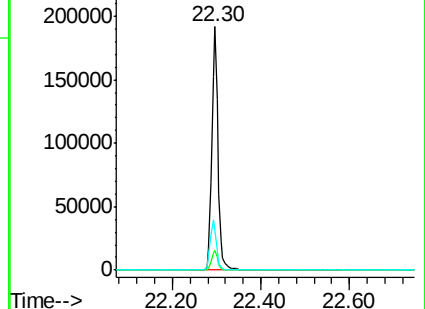
122 16.3 15.7 23.5

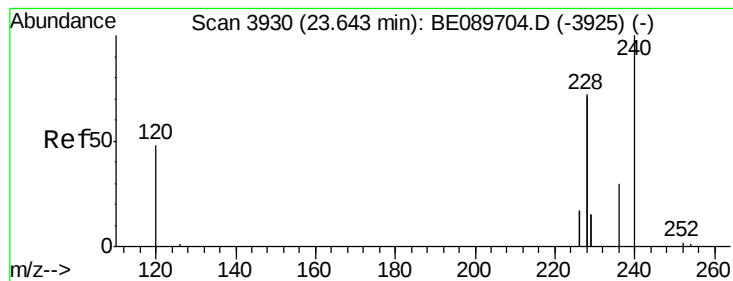


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 12.05 ng

RT: 23.69 min Scan# 3934

Delta R.T. 0.04 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD

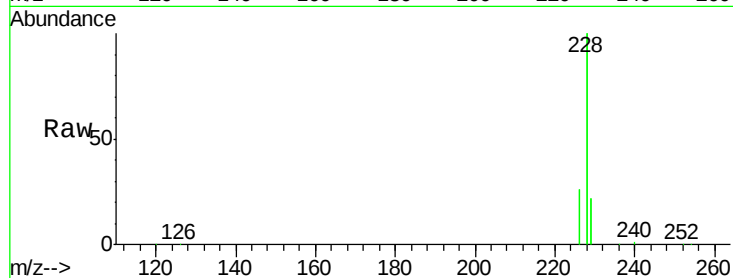
Tgt Ion:228 Resp: 1117417

Ion Ratio Lower Upper

228 100

226 25.9 19.3 28.9

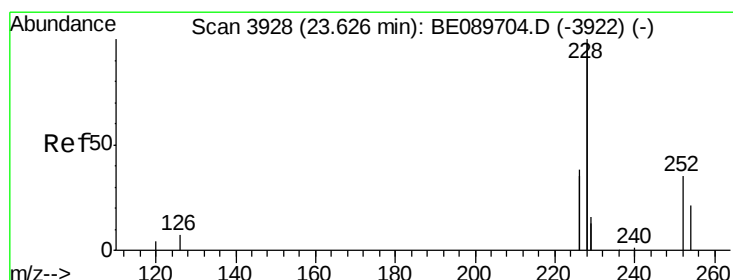
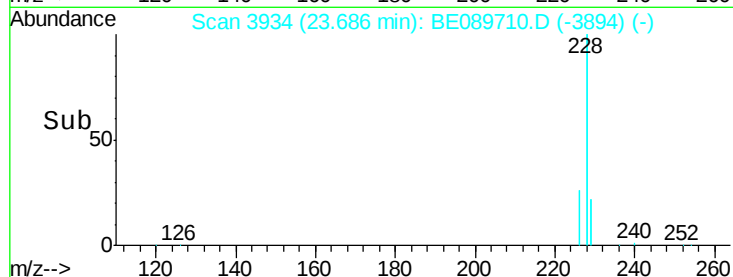
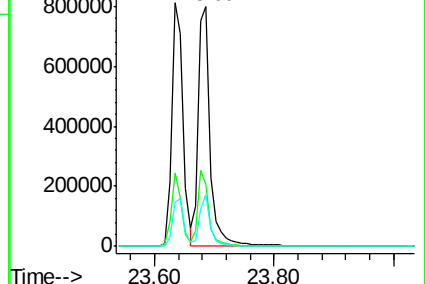
229 21.7 16.6 25.0



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

3,3'-Dichlorobenzidine

Concen: 9.70 ng

RT: 23.63 min Scan# 3927

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

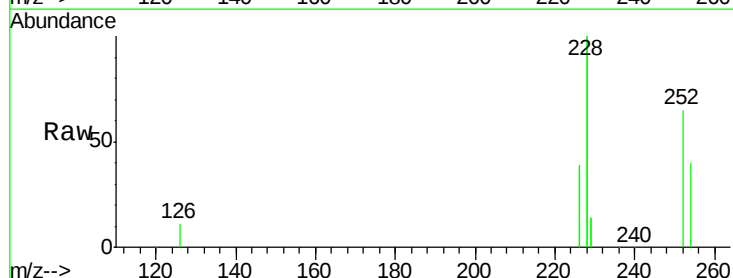
Tgt Ion:252 Resp: 81444

Ion Ratio Lower Upper

252 100

254 61.0 49.4 74.2

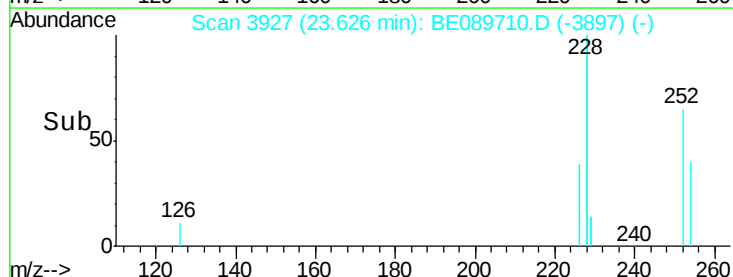
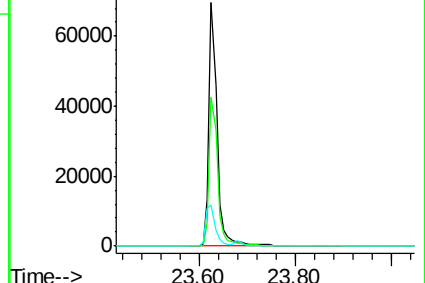
126 17.1 17.4 26.2#

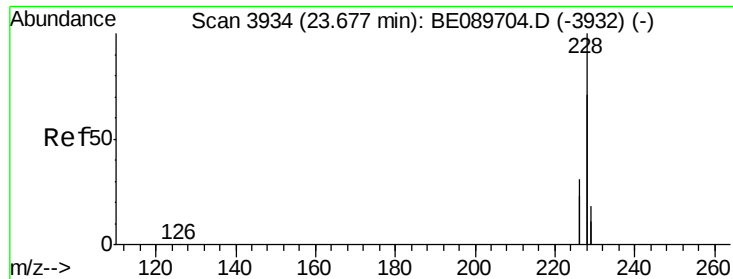


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 9.06 ng

RT: 23.63 min Scan# 3928

Delta R.T. -0.04 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD

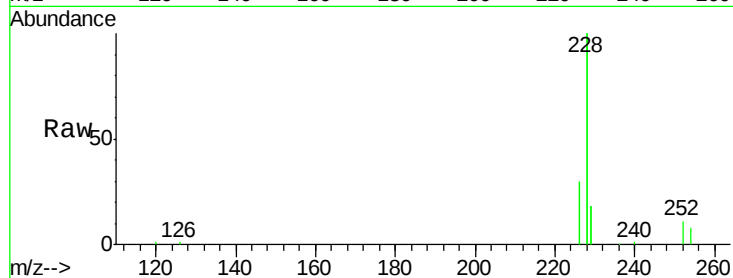
Tgt Ion:228 Resp: 1034127

Ion Ratio Lower Upper

228 100

226 29.9 24.7 37.1

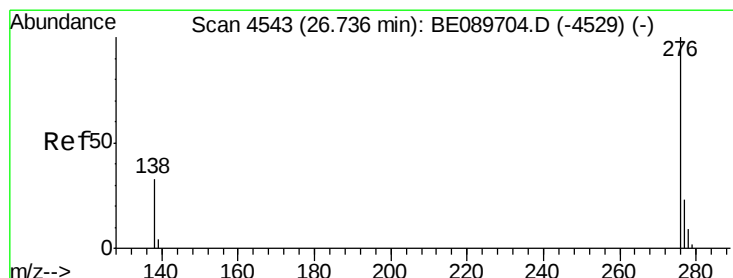
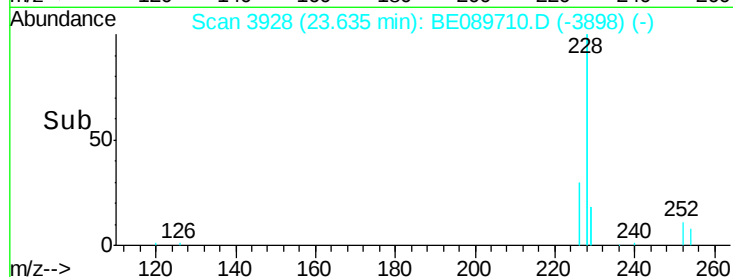
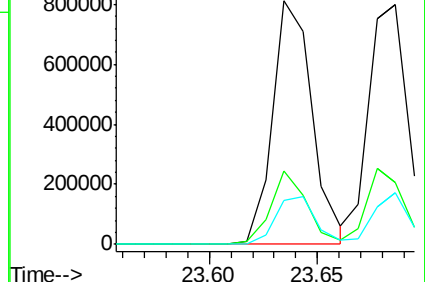
229 17.8 14.4 21.6



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 8.96 ng

RT: 26.74 min Scan# 4544

Delta R.T. 0.01 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

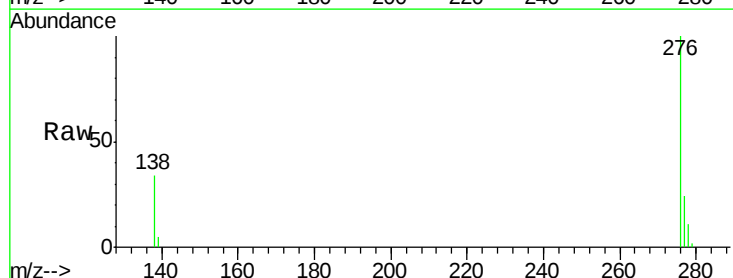
Tgt Ion:276 Resp: 199456

Ion Ratio Lower Upper

276 100

138 16.2 29.8 44.6#

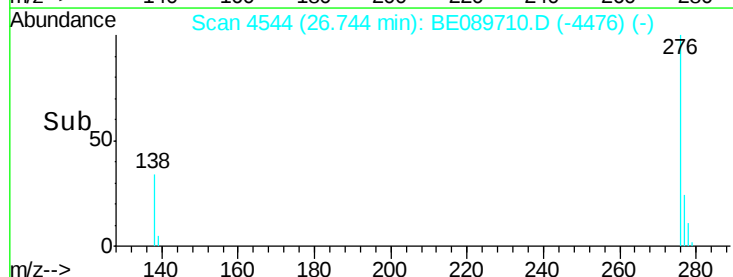
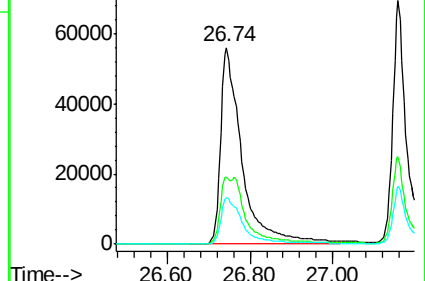
277 24.9 19.8 29.6

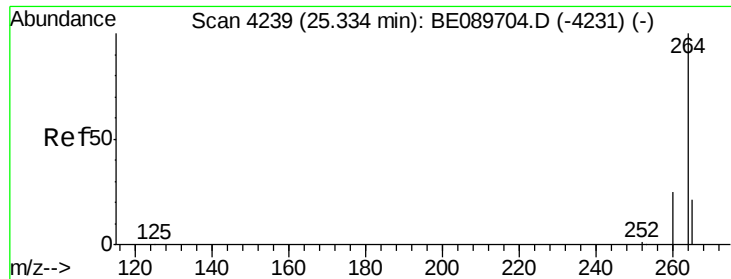


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

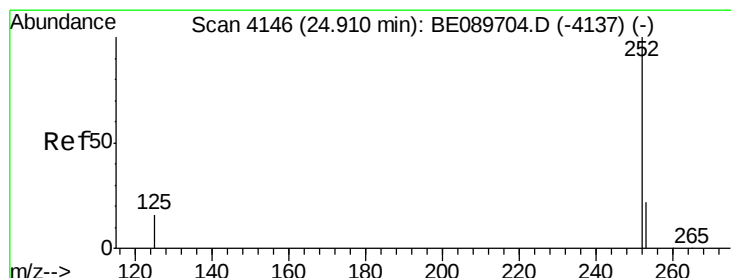
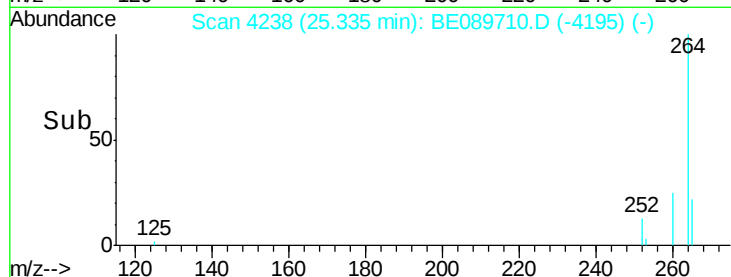
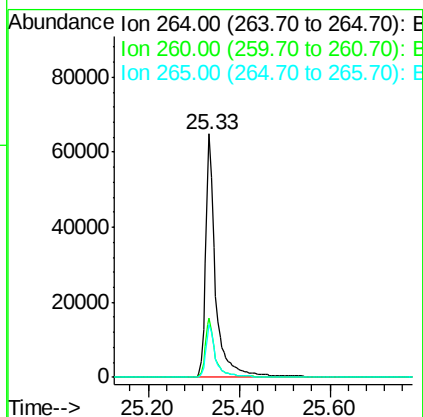
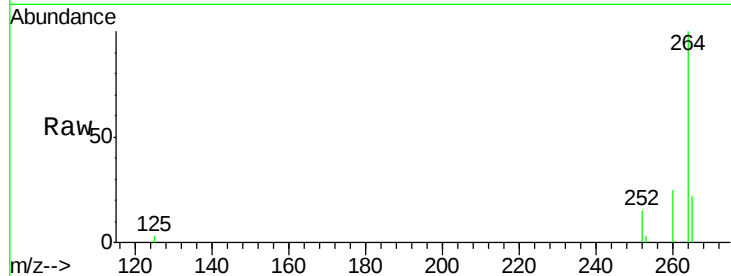




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.33 min Scan# 4238
 Delta R.T. 0.00 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

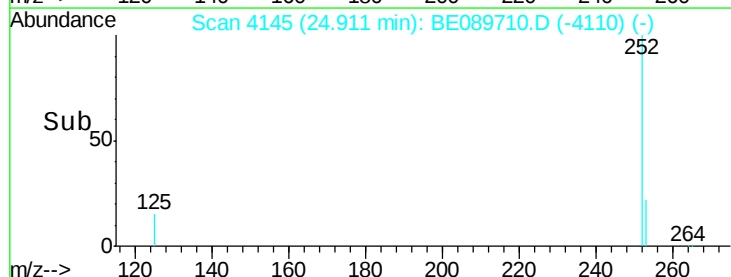
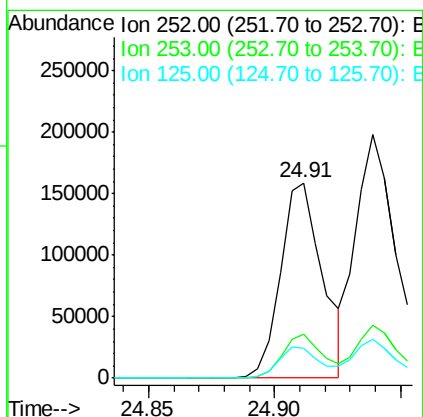
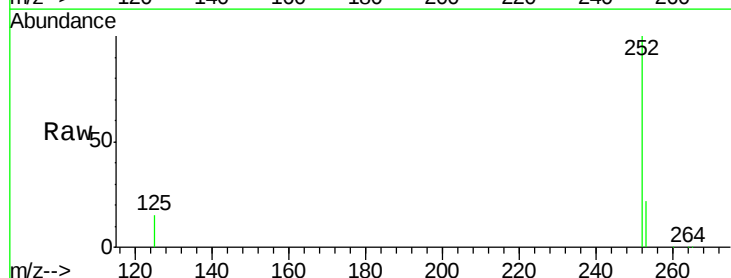
Instrument :
 BNA_E
 ClientSampleId :
 PB81904BSD

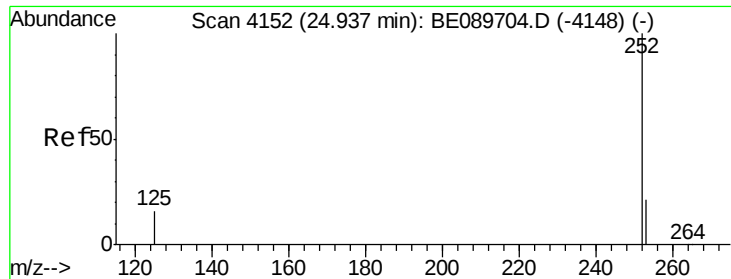
Tgt Ion: 264 Resp: 99134
 Ion Ratio Lower Upper
 264 100
 260 24.6 20.2 30.2
 265 21.6 16.9 25.3



#28
Benzo(b)fluoranthene
 Concen: 9.92 ng
 RT: 24.91 min Scan# 4145
 Delta R.T. 0.00 min
 Lab File: BE089710.D
 Acq: 27 Feb 2015 4:00

Tgt Ion: 252 Resp: 182962
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.8 26.6
 125 15.4 12.9 19.3





#29

Benzo(k)fluoranthene

Concen: 9.91 ng

RT: 24.94 min Scan# 4151

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD

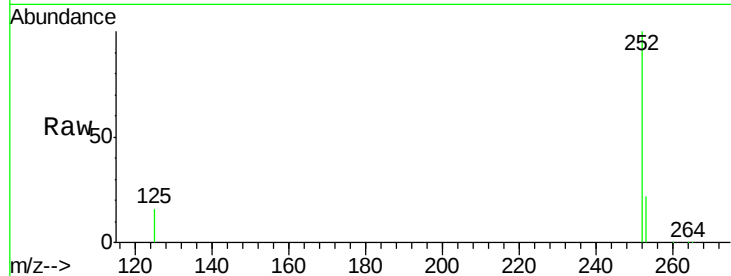
Tgt Ion:252 Resp: 270854

Ion Ratio Lower Upper

252 100

253 21.8 17.3 25.9

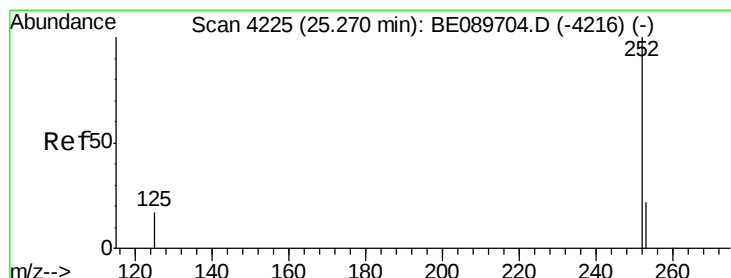
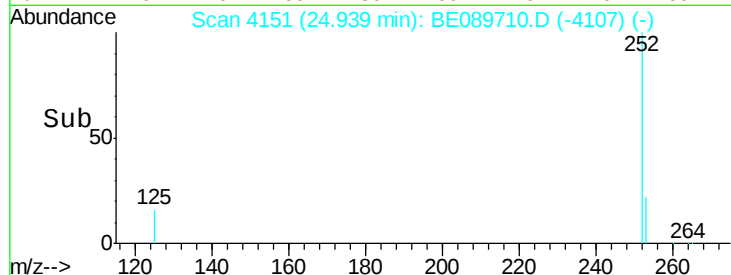
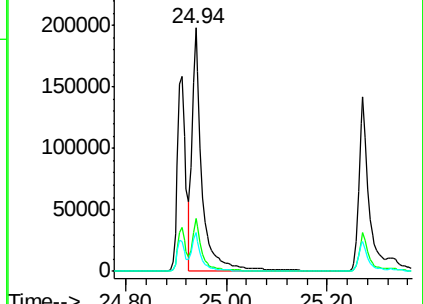
125 15.9 12.9 19.3



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



#30

Benzo(a)pyrene

Concen: 10.10 ng

RT: 25.27 min Scan# 4224

Delta R.T. 0.00 min

Lab File: BE089710.D

Acq: 27 Feb 2015 4:00

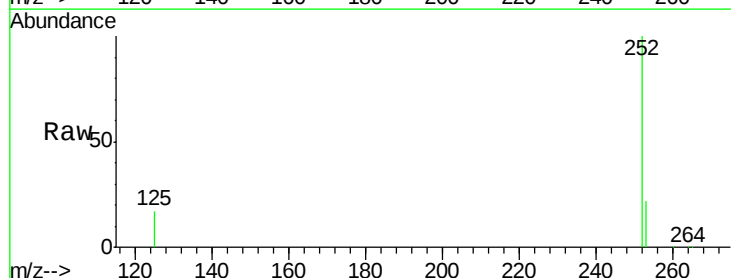
Tgt Ion:252 Resp: 187091

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

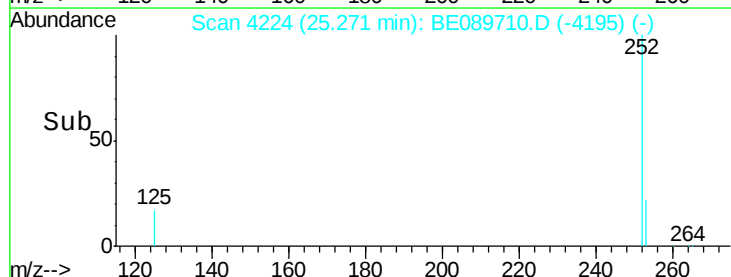
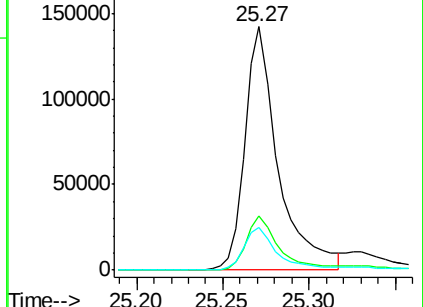
125 17.4 14.0 21.0

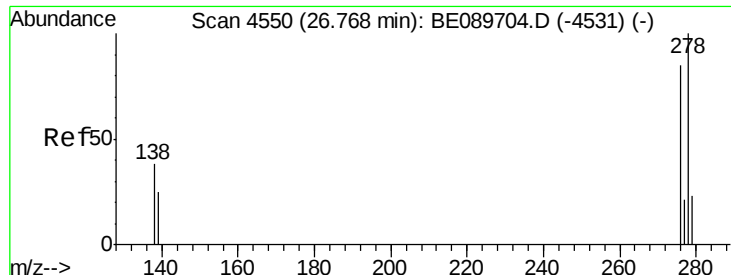


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Dibenzo(a,h)anthracene

Concen: 9.61 ng

RT: 26.77 min Scan# 4550

Delta R.T. 0.00 min

Lab File: BE089710.D

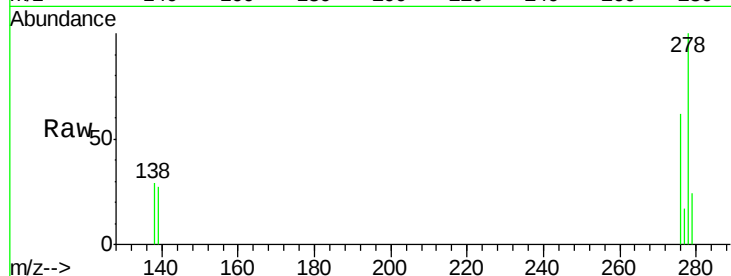
Acq: 27 Feb 2015 4:00

Instrument :

BNA_E

ClientSampleId :

PB81904BSD



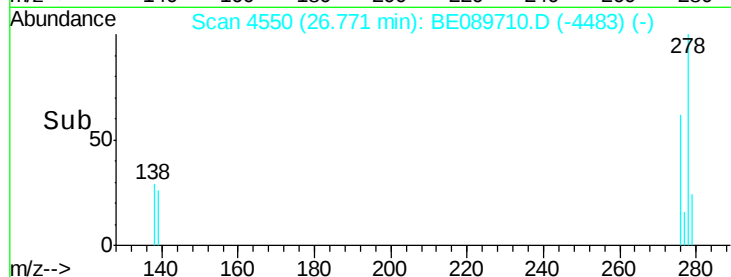
Tgt Ion: 278 Resp: 161917

Ion Ratio Lower Upper

278 100

139 26.5 21.1 31.7

279 23.8 19.3 28.9



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

