

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010515\
 Data File : BE089321.D
 Acq On : 5 Jan 2015 19:15
 Operator : TP/IZ
 Sample : PB81193BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 06 13:35:38 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	32145	5.00	ng	0.00
7) Naphthalene-d8	8.50	136	125823	5.00	ng	0.00
13) Acenaphthene-d10	10.65	164	57766	5.00	ng	0.00
17) Phenanthrene-d10	12.71	188	83722	5.00	ng	0.00
20) Chrysene-d12	18.06	240	55649	5.00	ng	0.00
27) Perylene-d12	21.10	264	49208	5.00	ng	0.00

System Monitoring Compounds						
3) 2-Fluorophenol	5.26	112	97625	13.97	ng	-0.01
4) Phenol-d6	6.55	99	120903	11.51	ng	0.00
8) Nitrobenzene-d5	7.64	82	66824	7.09	ng	0.00
14) 2,4,6-Tribromophenol	11.66	330	21226	13.58	ng	0.00
15) 2-Fluorobiphenyl	9.85	172	107933	6.59	ng	0.00
22) Terphenyl-d14	15.83	244	67670	6.81	ng	0.00

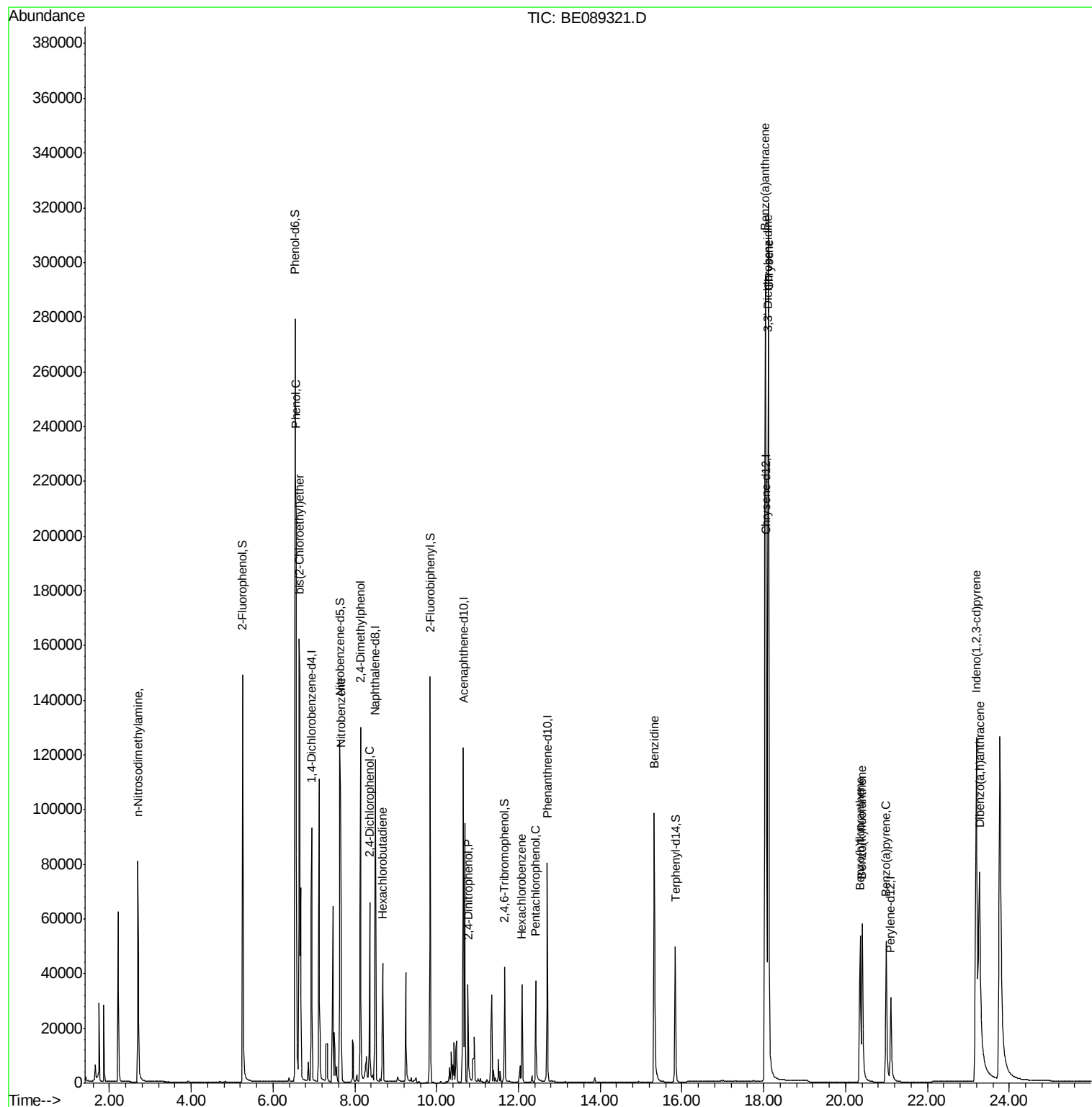
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.69	42	39950	9.52	ng	# 81
5) Phenol	6.56	94	90645	7.21	ng	98
6) bis(2-Chloroethyl)ether	6.65	93	74114	7.65	ng	# 85
9) Nitrobenzene	7.66	77	73264	7.50	ng	98
10) 2,4-Dimethylphenol	8.14	122	53912	7.34	ng	87
11) 2,4-Dichlorophenol	8.36	162	47878	7.79	ng	92
12) Hexachlorobutadiene	8.68	225	24601	7.08	ng	100
16) 2,4-Dinitrophenol	10.77	184	21458	34.31	ng	# 50
18) Hexachlorobenzene	12.10	284	29065	7.21	ng	99
19) Pentachlorophenol	12.42	266	25602	26.76	ng	92
21) Benzidine	15.32	184	147742	21.10	ng	94
23) Benzo(a)anthracene	18.03	228	390587	7.90	ng	99
24) 3,3'-Dichlorobenzidine	18.09	252	36563	9.19	ng	# 96
25) Chrysene	18.11	228	406786	7.81	ng	99
26) Indeno(1,2,3-cd)pyrene	23.19	276	237086	5.83	ng	99
28) Benzo(b)fluoranthene	20.35	252	82112	8.96	ng	98
29) Benzo(k)fluoranthene	20.41	252	101135	8.09	ng	98
30) Benzo(a)pyrene	20.99	252	82558	9.17	ng	97
31) Dibenzo(a,h)anthracene	23.27	278	67300	8.72	ng	95

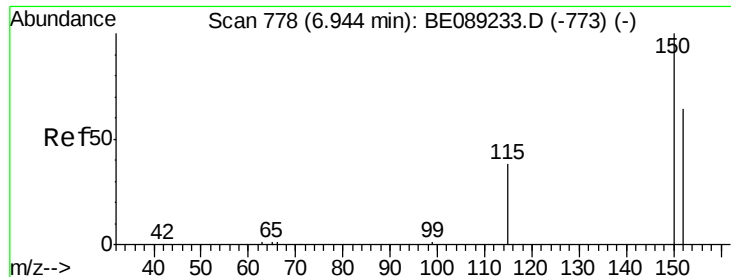
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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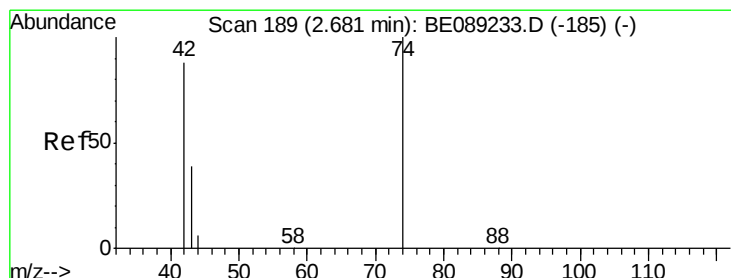
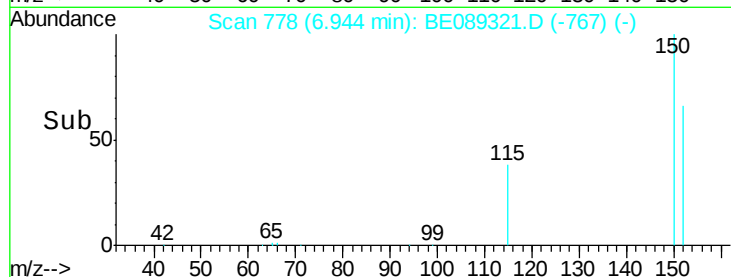
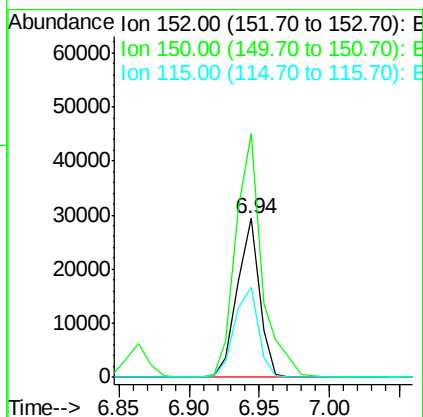
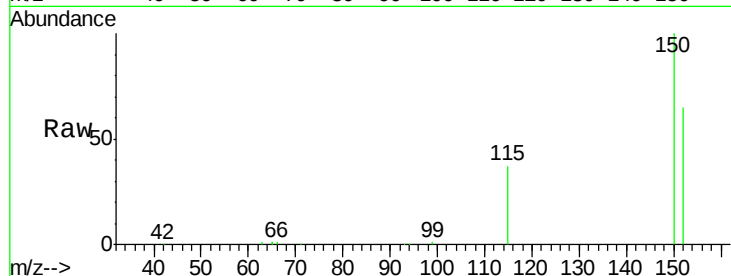


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.94 min Scan# 778
Delta R.T. -0.00 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

Instrument :
BNA_E
ClientSampled :

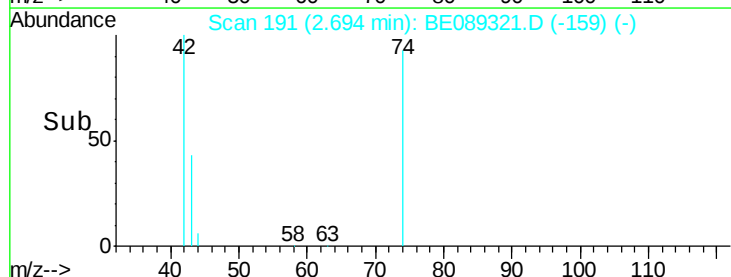
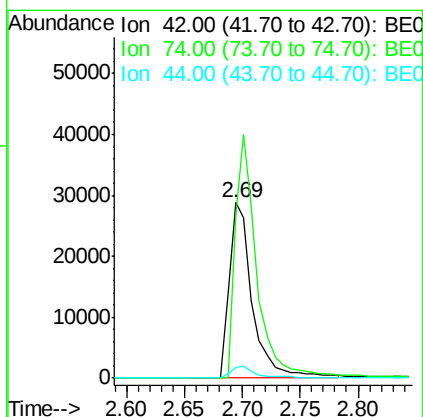
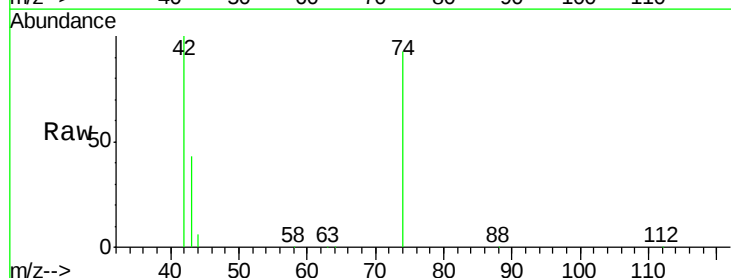
Tgt Ion: 152 Resp: 32145
Ion Ratio Lower Upper
152 100
150 153.6 125.5 188.3
115 56.8 47.4 71.2

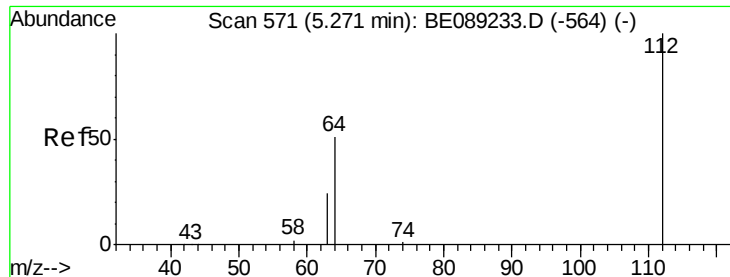


#2

n-Nitrosodimethylamine
Concen: 9.52 ng
RT: 2.69 min Scan# 191
Delta R.T. 0.01 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

Tgt Ion: 42 Resp: 39950
Ion Ratio Lower Upper
42 100
74 92.6 89.7 134.5
44 6.3 14.2 21.2#

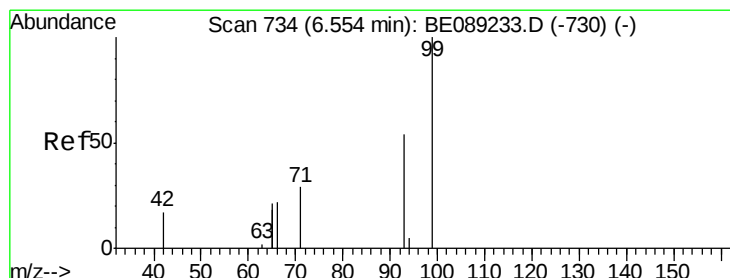
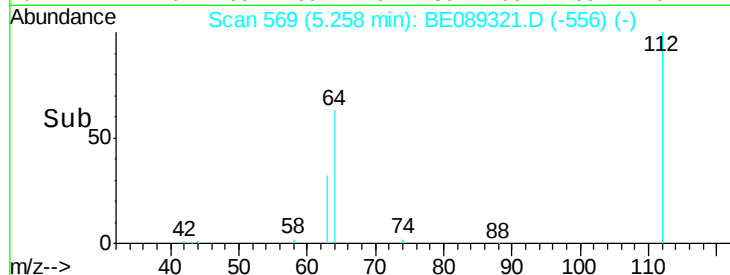
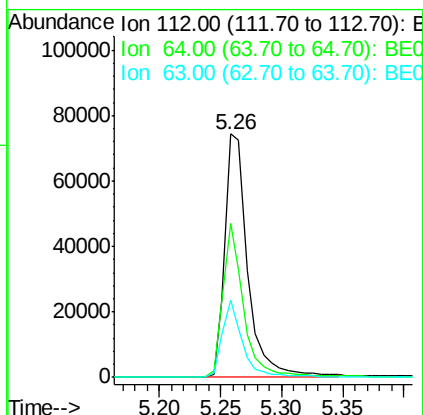
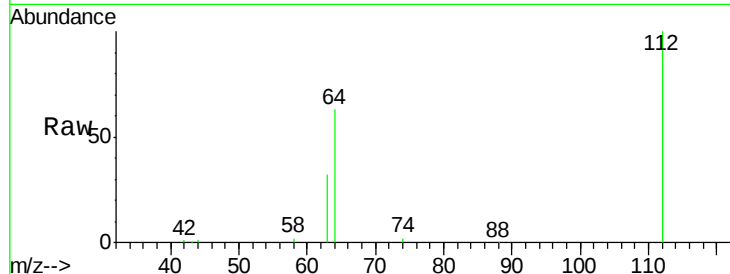




#3
 2-Fluorophenol
 Concen: 13.97 ng
 RT: 5.26 min Scan# 569
 Delta R.T. -0.01 min
 Lab File: BE089321.D
 Acq: 5 Jan 2015 19:15

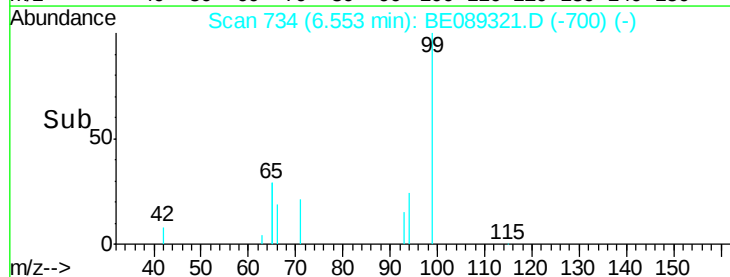
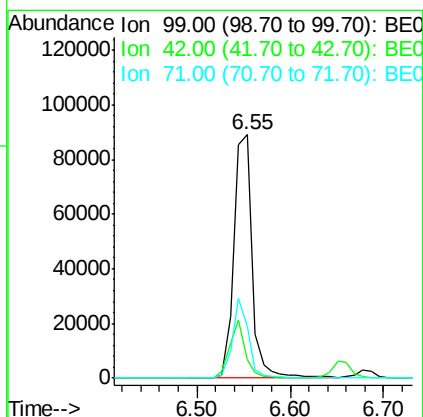
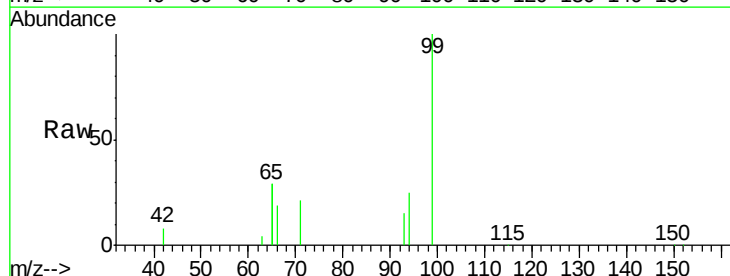
Instrument :
 BNA_E
 ClientSampled :

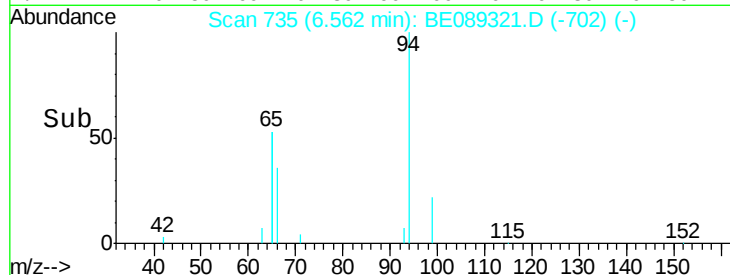
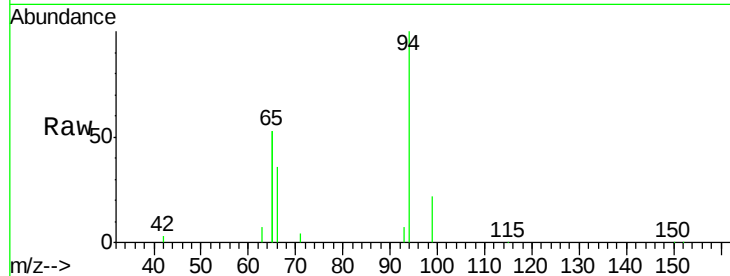
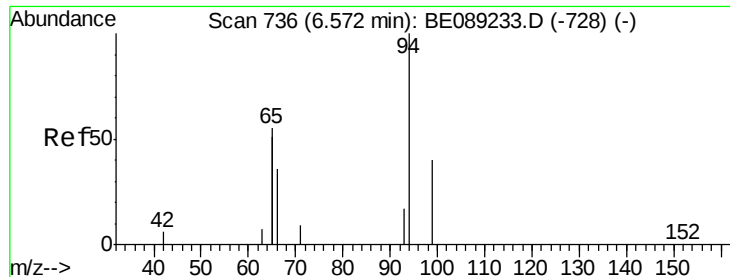
Tgt Ion: 112 Resp: 97625
 Ion Ratio Lower Upper
 112 100
 64 63.1 45.4 68.0
 63 31.6 23.6 35.4



#4
 Phenol-d6
 Concen: 11.51 ng
 RT: 6.55 min Scan# 734
 Delta R.T. -0.00 min
 Lab File: BE089321.D
 Acq: 5 Jan 2015 19:15

Tgt Ion: 99 Resp: 120903
 Ion Ratio Lower Upper
 99 100
 42 7.7 14.6 22.0#
 71 21.4 23.5 35.3#





#5

Phenol

Concen: 7.21 ng

RT: 6.56 min Scan# 735

Delta R.T. -0.01 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampled :

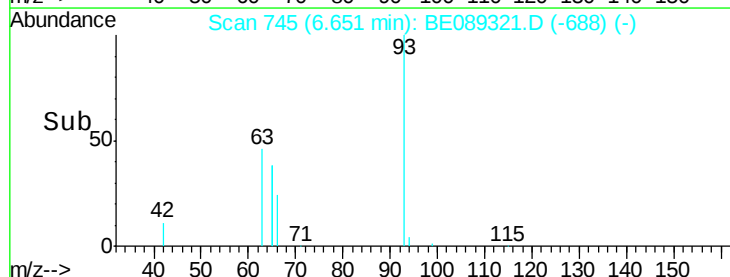
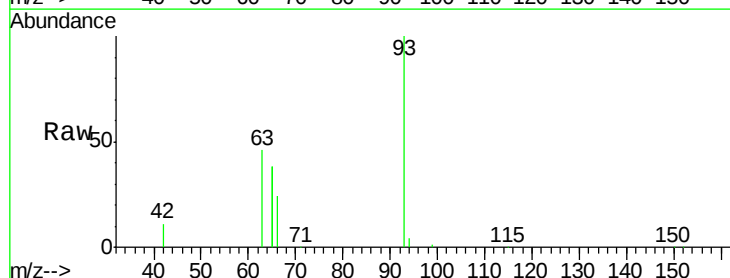
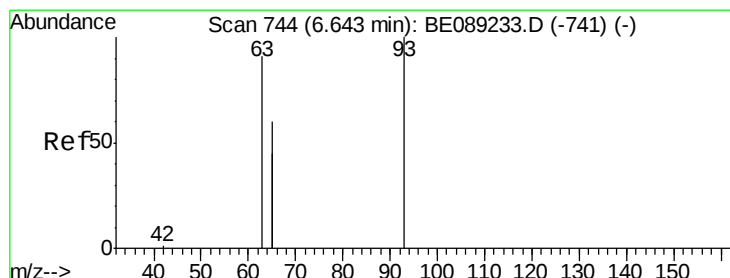
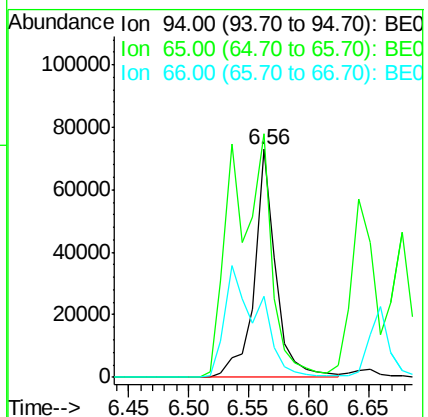
Tgt Ion: 94 Resp: 90645

Ion Ratio Lower Upper

94 100

65 106.9 88.8 128.8

66 35.8 16.9 56.9



#6

bis(2-Chloroethyl)ether

Concen: 7.65 ng

RT: 6.65 min Scan# 745

Delta R.T. 0.01 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

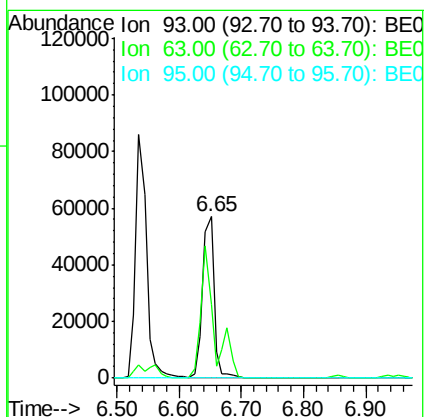
Tgt Ion: 93 Resp: 74114

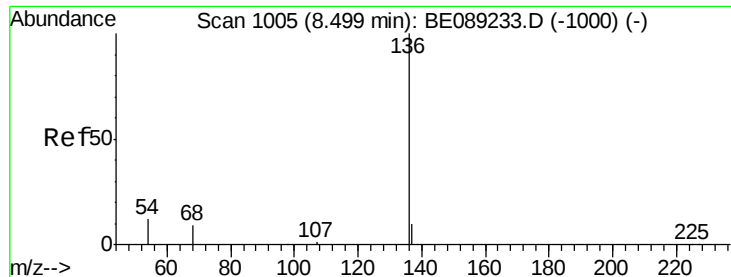
Ion Ratio Lower Upper

93 100

63 78.0 52.8 79.2

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 8.50 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampleId :

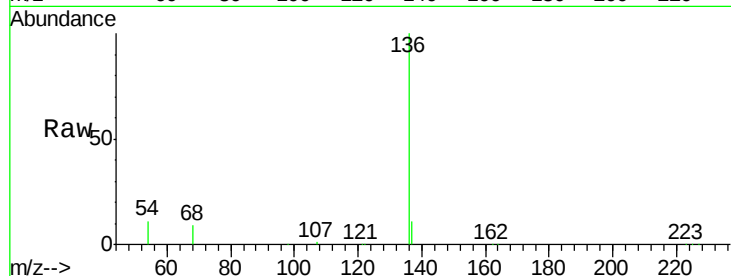
Tgt Ion:136 Resp: 125823

Ion Ratio Lower Upper

136 100

137 10.6 8.4 12.6

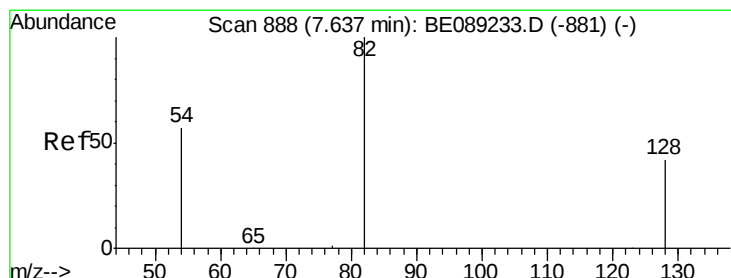
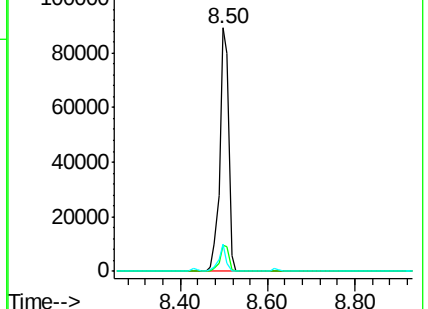
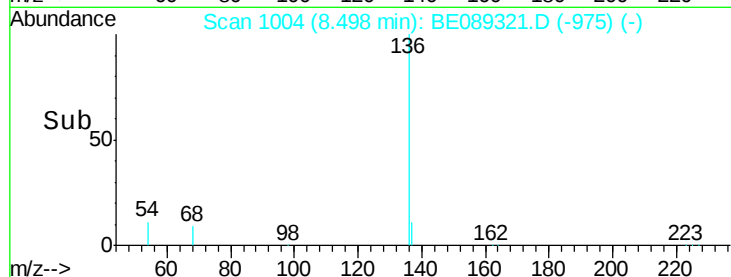
54 11.2 9.4 14.2



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: 7.09 ng

RT: 7.64 min Scan# 888

Delta R.T. 0.00 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

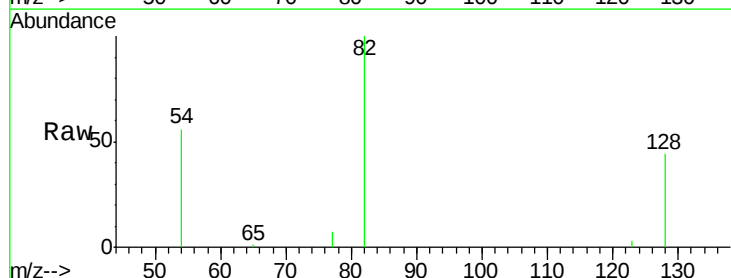
Tgt Ion: 82 Resp: 66824

Ion Ratio Lower Upper

82 100

128 43.6 34.1 51.1

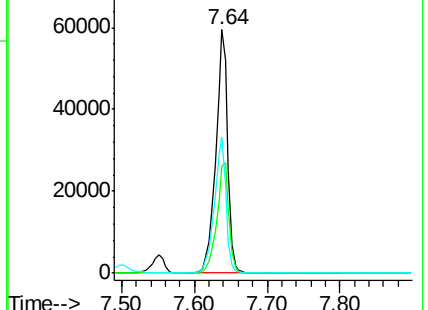
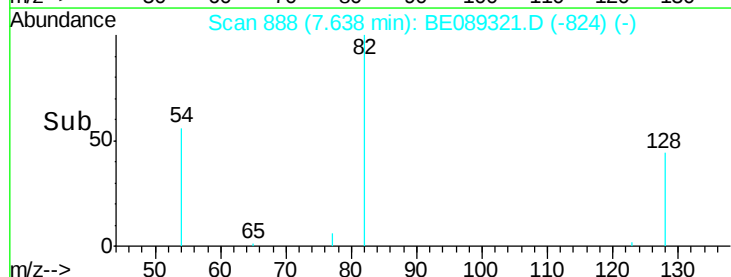
54 55.7 45.6 68.4

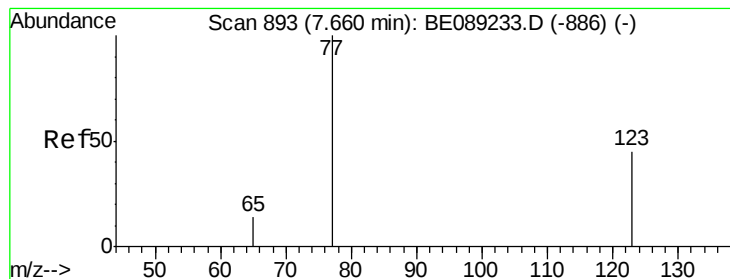


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 7.50 ng

RT: 7.66 min Scan# 893

Delta R.T. 0.00 min

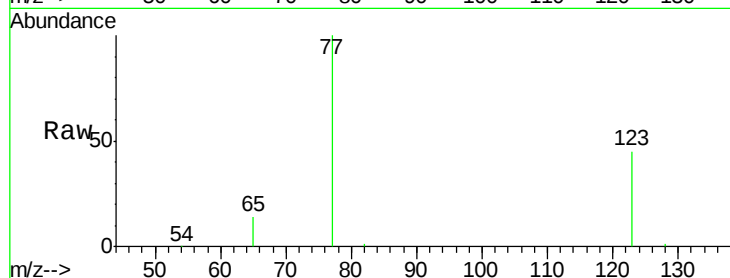
Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampled :



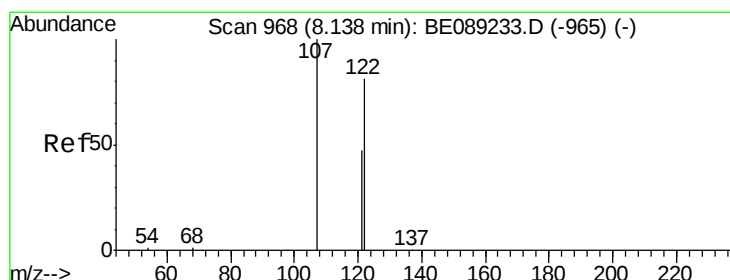
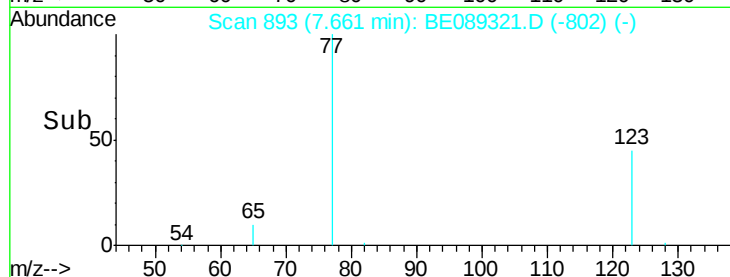
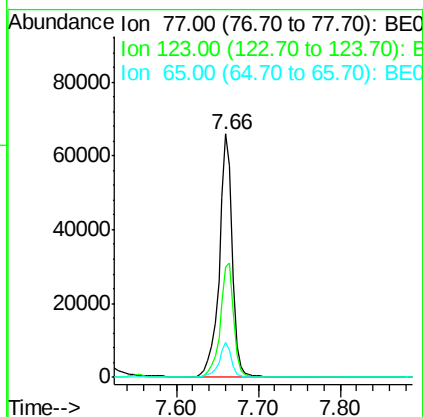
Tgt Ion: 77 Resp: 73264

Ion Ratio Lower Upper

77 100

123 48.3 37.8 56.8

65 13.8 10.5 15.7



#10

2,4-Dimethylphenol

Concen: 7.34 ng

RT: 8.14 min Scan# 967

Delta R.T. -0.00 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

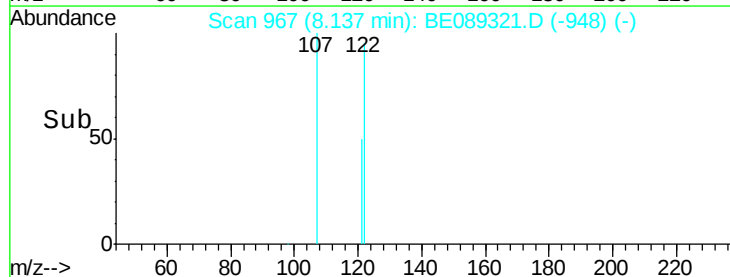
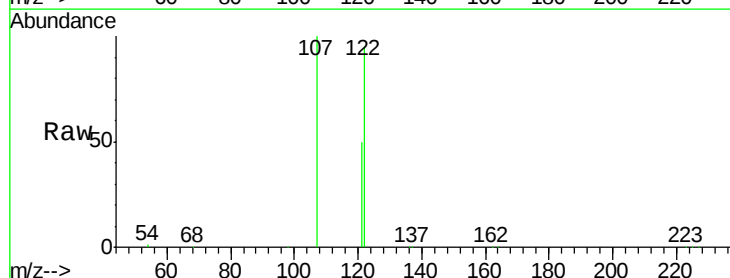
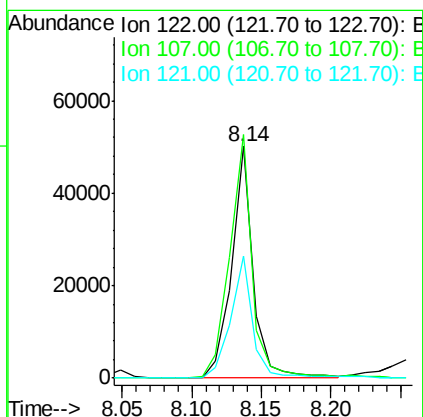
Tgt Ion: 122 Resp: 53912

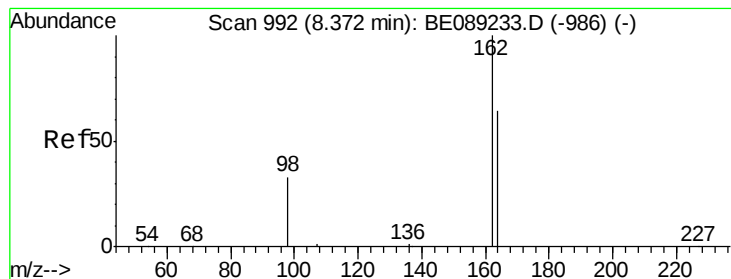
Ion Ratio Lower Upper

122 100

107 105.2 98.1 147.1

121 52.5 46.6 70.0

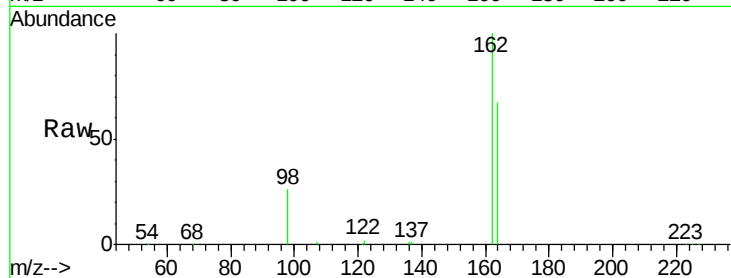




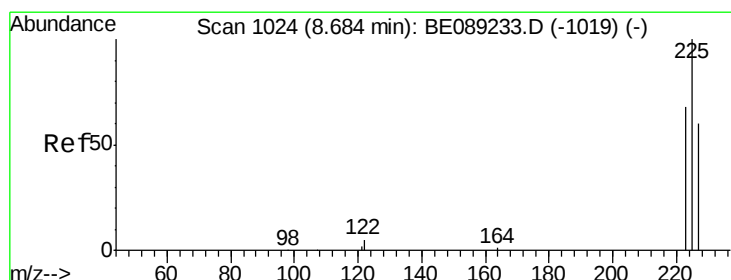
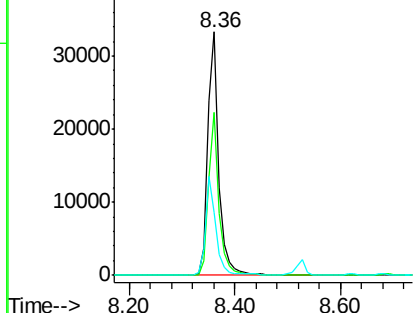
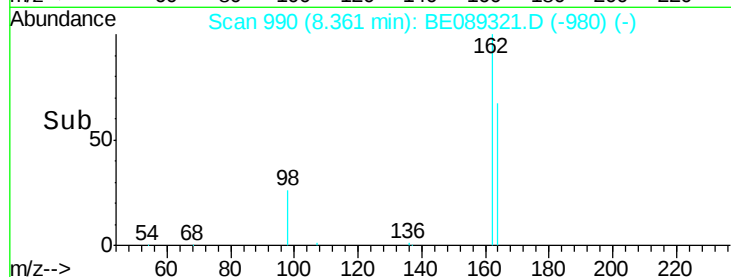
#11
 2,4-Dichlorophenol
 Concen: 7.79 ng
 RT: 8.36 min Scan# 990
 Delta R.T. -0.01 min
 Lab File: BE089321.D
 Acq: 5 Jan 2015 19:15

Instrument :
 BNA_E
 ClientSampled :

Tgt Ion:162 Resp: 47878
 Ion Ratio Lower Upper
 162 100
 164 67.1 44.3 84.3
 98 25.9 14.6 54.6

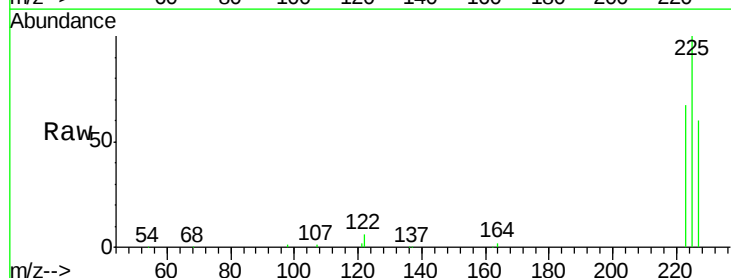


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BE0

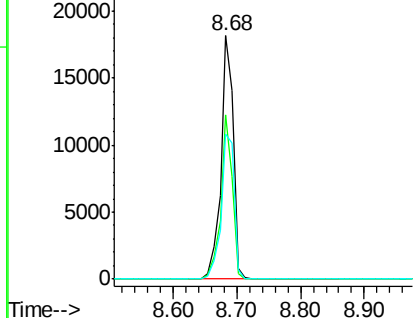
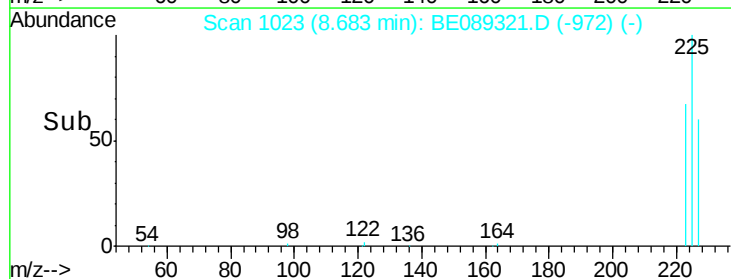


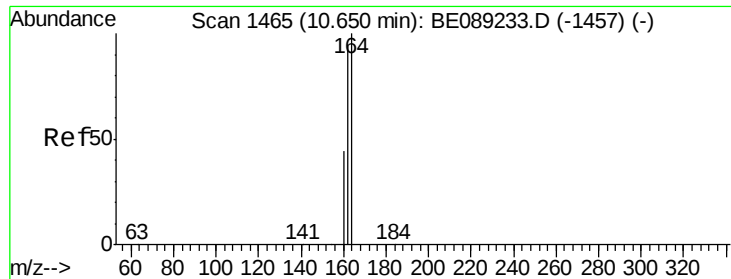
#12
 Hexachlorobutadiene
 Concen: 7.08 ng
 RT: 8.68 min Scan# 1023
 Delta R.T. -0.00 min
 Lab File: BE089321.D
 Acq: 5 Jan 2015 19:15

Tgt Ion:225 Resp: 24601
 Ion Ratio Lower Upper
 225 100
 223 63.0 50.4 75.6
 227 63.9 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: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampleId :

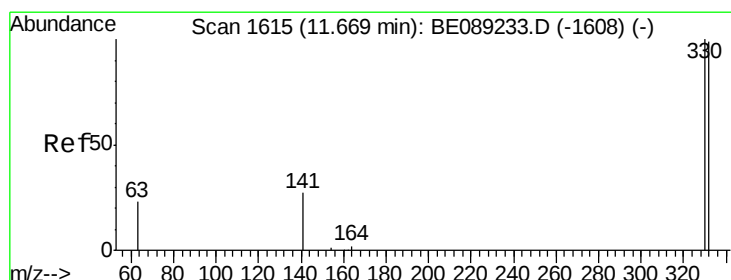
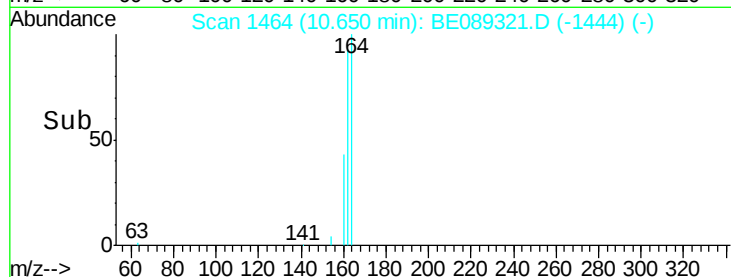
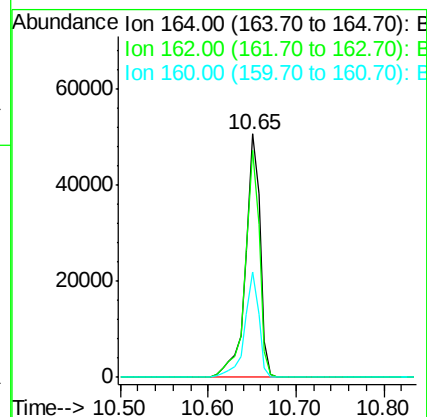
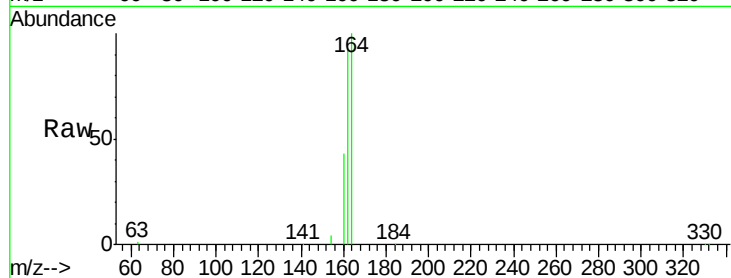
Tgt Ion:164 Resp: 57766

Ion Ratio Lower Upper

164 100

162 93.1 75.4 113.0

160 43.4 35.6 53.4



#14

2,4,6-Tribromophenol

Concen: 13.58 ng

RT: 11.66 min Scan# 1613

Delta R.T. -0.01 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

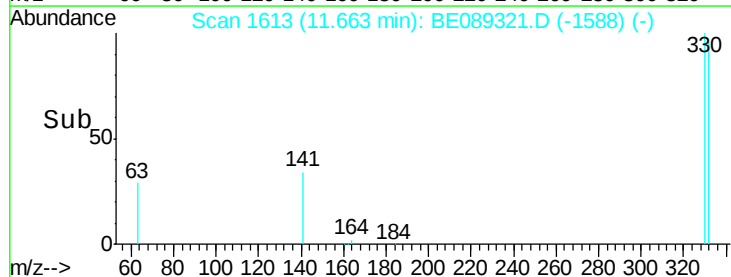
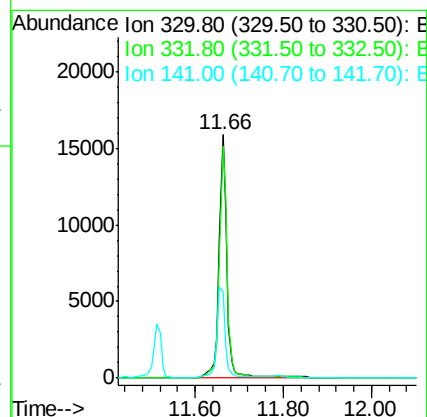
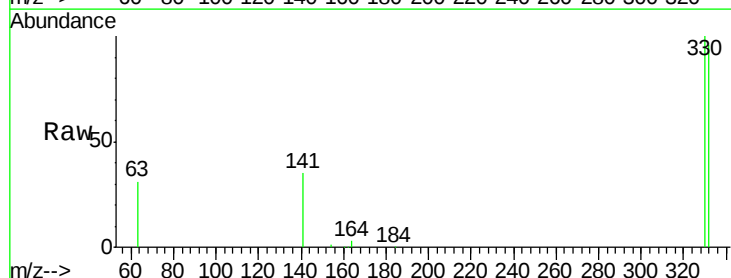
Tgt Ion:330 Resp: 21226

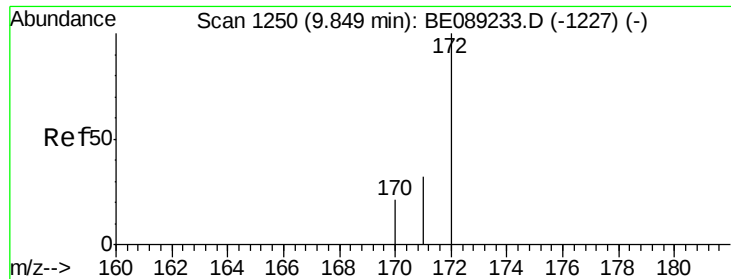
Ion Ratio Lower Upper

330 100

332 97.3 78.1 117.1

141 35.6 29.4 44.0

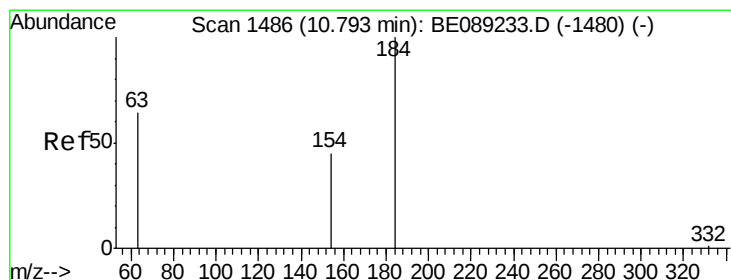
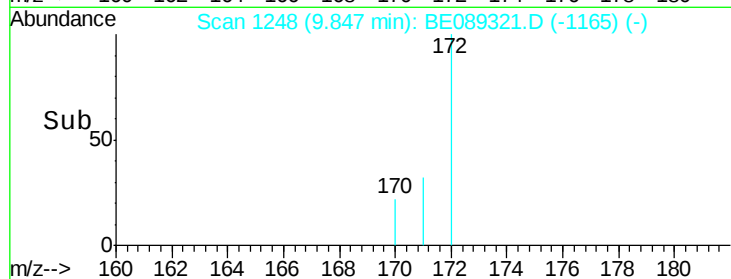
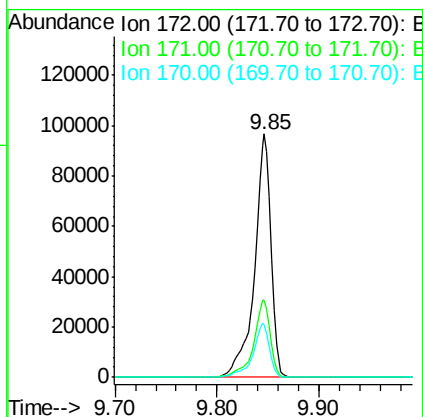
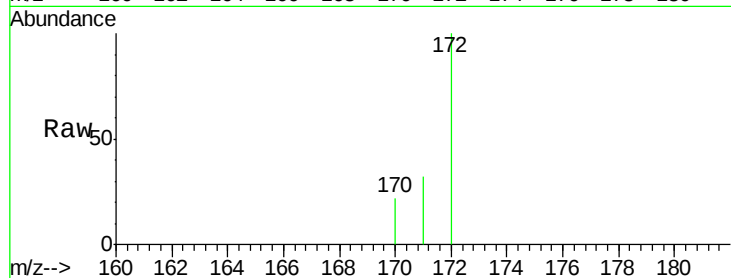




#15
2-Fluorobiphenyl
Concen: 6.59 ng
RT: 9.85 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

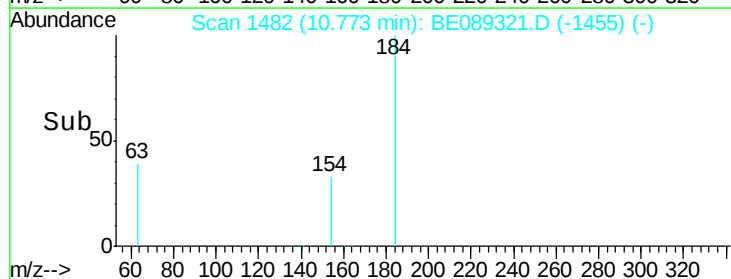
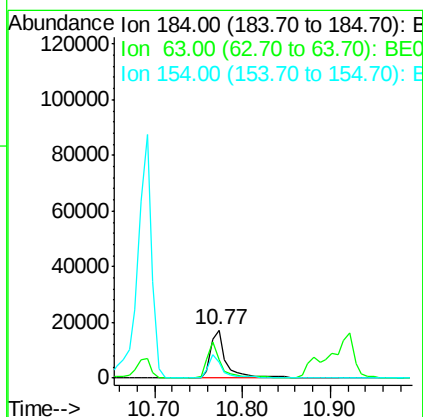
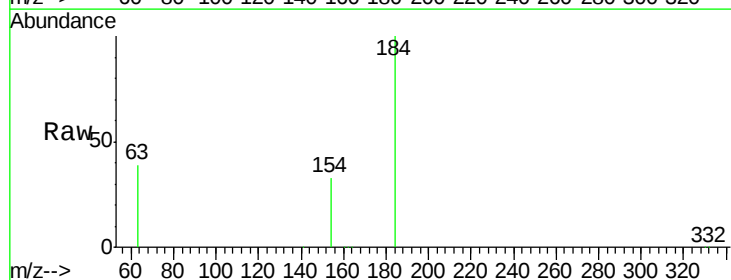
Instrument :
BNA_E
ClientSampleId :

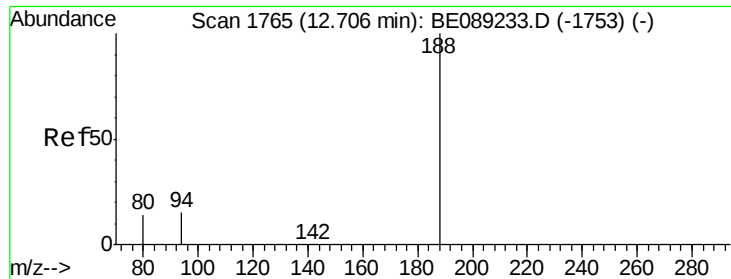
Tgt Ion:172 Resp: 107933
Ion Ratio Lower Upper
172 100
171 31.9 25.5 38.3
170 21.8 16.8 25.2



#16
2,4-Dinitrophenol
Concen: 34.31 ng
RT: 10.77 min Scan# 1482
Delta R.T. -0.02 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

Tgt Ion:184 Resp: 21458
Ion Ratio Lower Upper
184 100
63 39.3 69.9 104.9#
154 33.0 59.1 88.7#

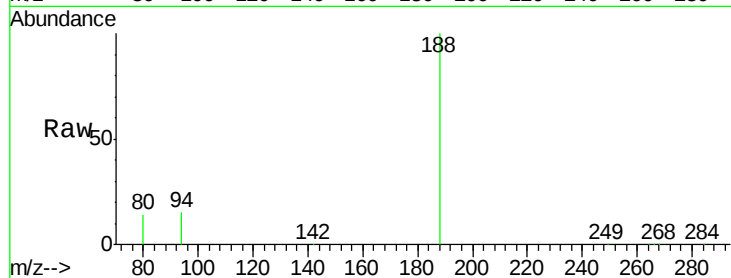




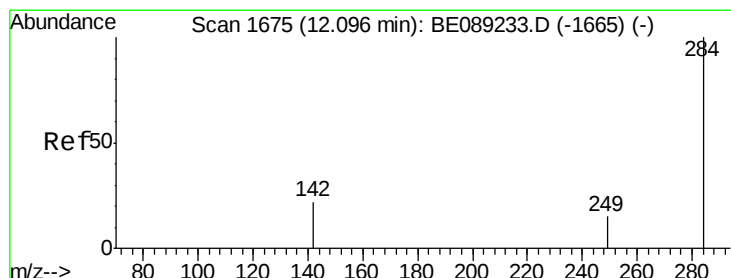
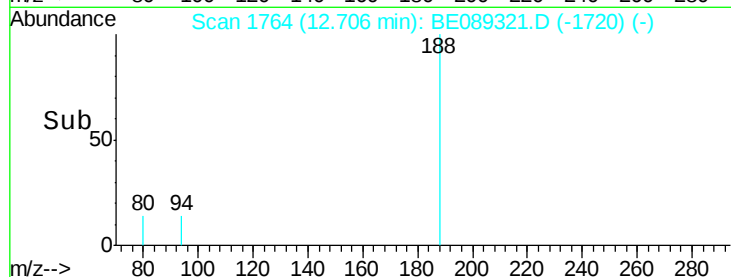
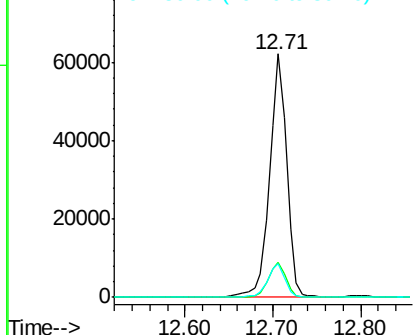
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.71 min Scan# 1764
Delta R.T. -0.00 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 83722
Ion Ratio Lower Upper
188 100
94 14.6 11.8 17.8
80 14.0 11.4 17.0

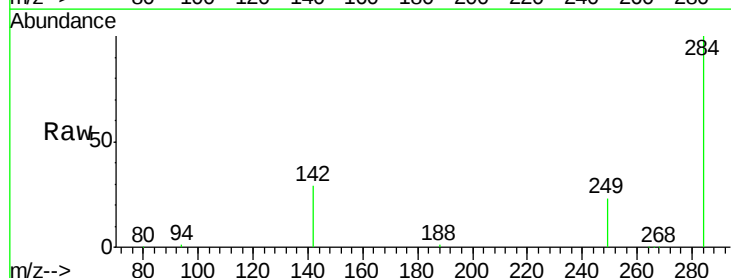


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

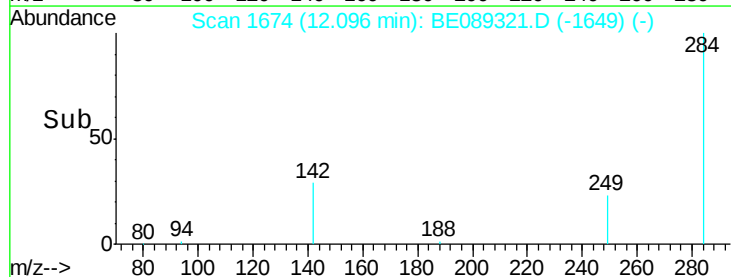
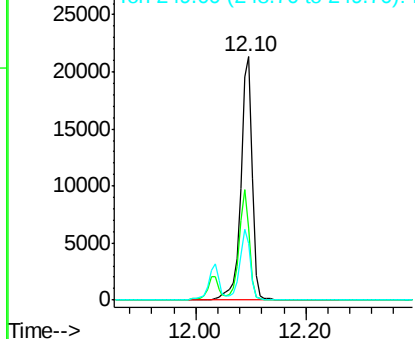


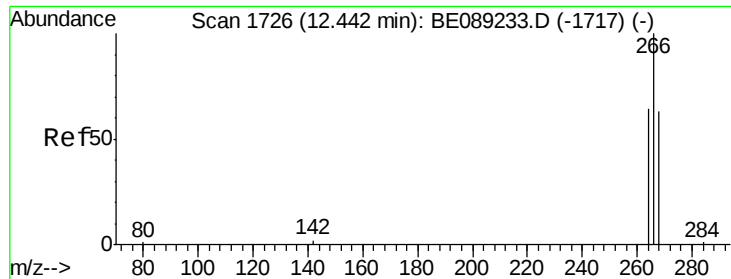
#18
Hexachlorobenzene
Concen: 7.21 ng
RT: 12.10 min Scan# 1674
Delta R.T. -0.00 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

Tgt Ion:284 Resp: 29065
Ion Ratio Lower Upper
284 100
142 29.5 23.8 35.8
249 23.3 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

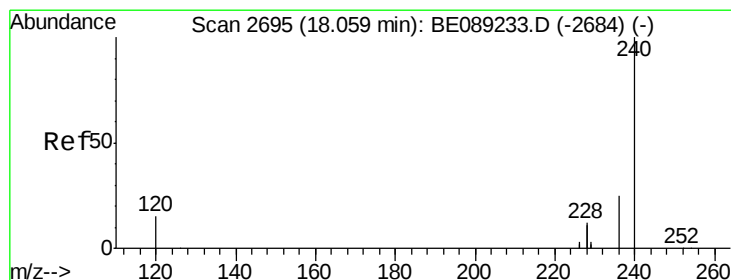
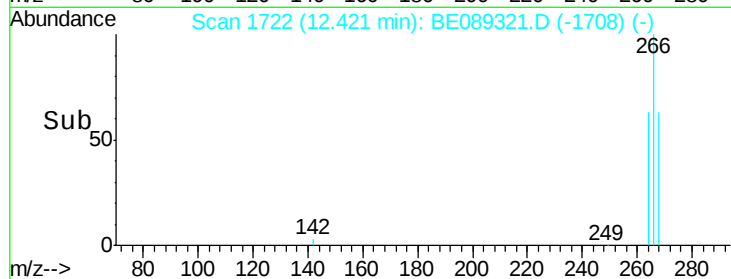
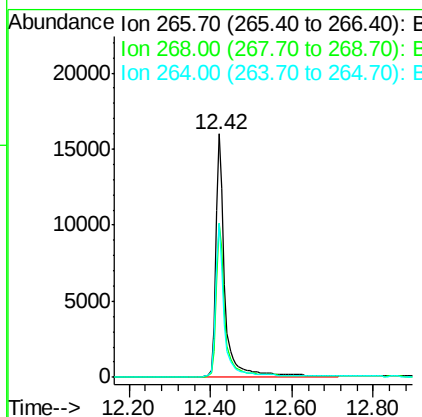
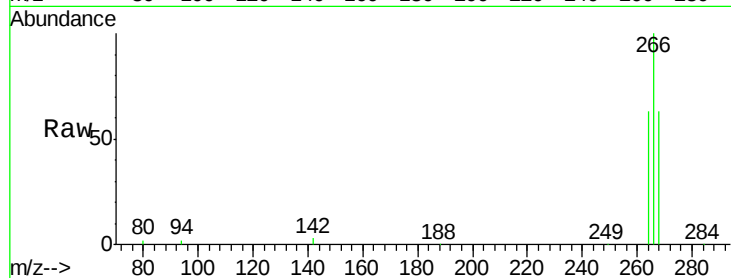




#19
 Pentachlorophenol
 Concen: 26.76 ng
 RT: 12.42 min Scan# 1722
 Delta R.T. -0.02 min
 Lab File: BE089321.D
 Acq: 5 Jan 2015 19:15

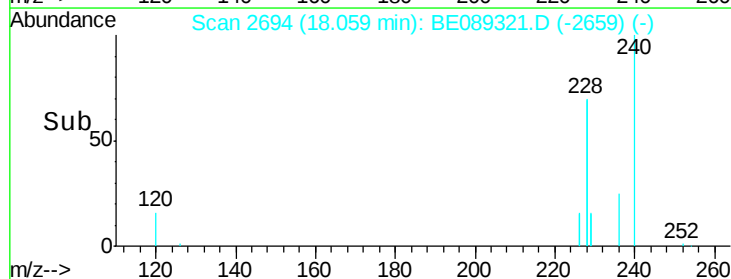
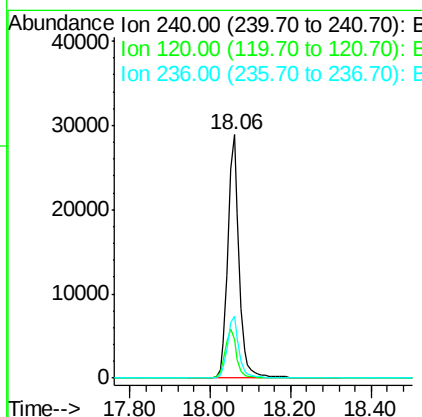
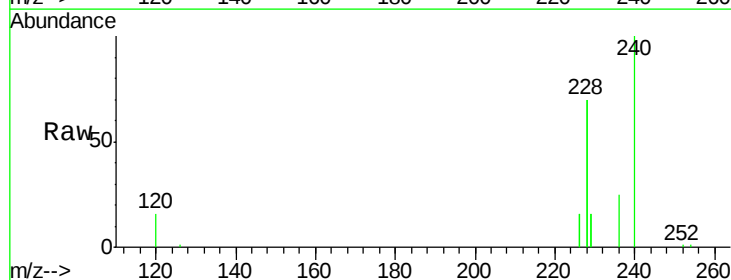
Instrument :
 BNA_E
 ClientSampleId :

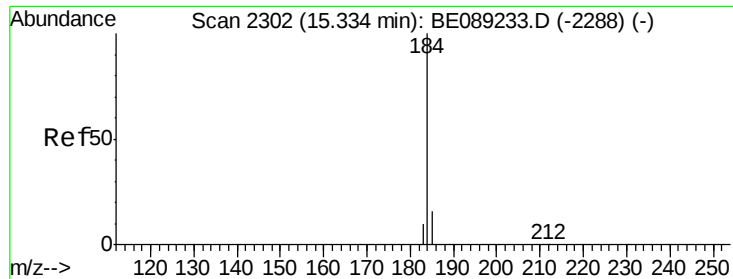
Tgt Ion:266 Resp: 25602
 Ion Ratio Lower Upper
 266 100
 268 63.2 55.8 83.6
 264 63.2 56.5 84.7



#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.06 min Scan# 2694
 Delta R.T. -0.00 min
 Lab File: BE089321.D
 Acq: 5 Jan 2015 19:15

Tgt Ion:240 Resp: 55649
 Ion Ratio Lower Upper
 240 100
 120 16.1 12.5 18.7
 236 25.2 20.2 30.2





#21

Benzidine

Concen: 21.10 ng

RT: 15.32 min Scan# 2298

Delta R.T. -0.01 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampleId :

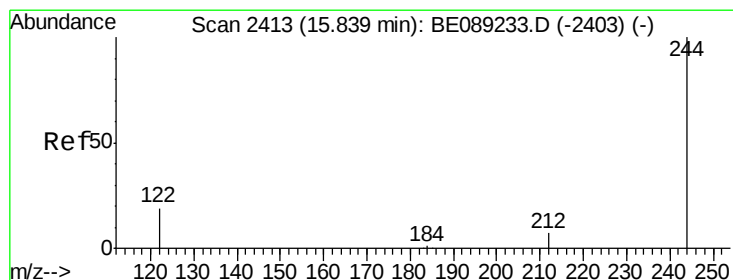
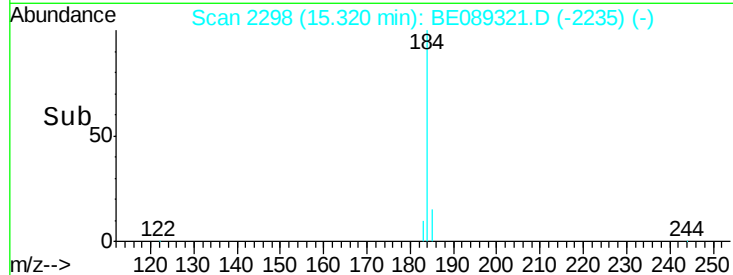
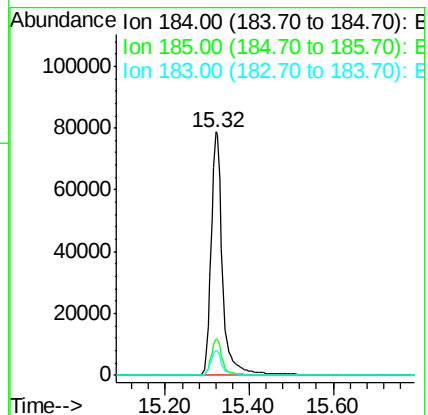
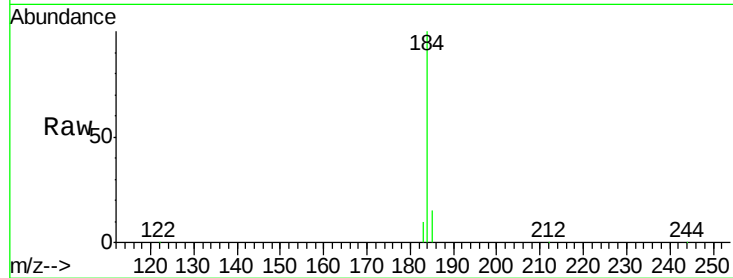
Tgt Ion:184 Resp: 147742

Ion Ratio Lower Upper

184 100

185 14.9 14.4 21.6

183 10.4 9.6 14.4



#22

Terphenyl-d14

Concen: 6.81 ng

RT: 15.83 min Scan# 2411

Delta R.T. -0.00 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

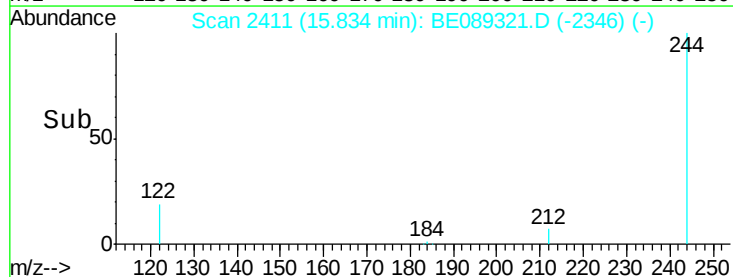
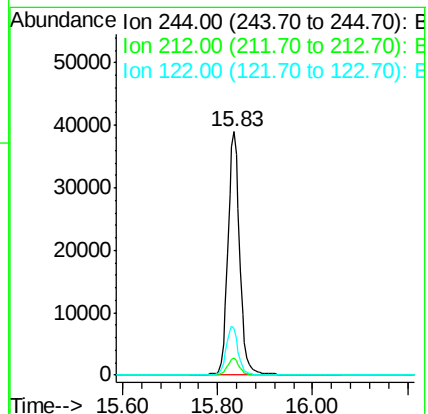
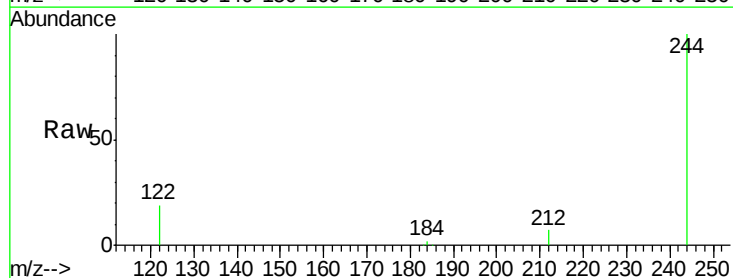
Tgt Ion:244 Resp: 67670

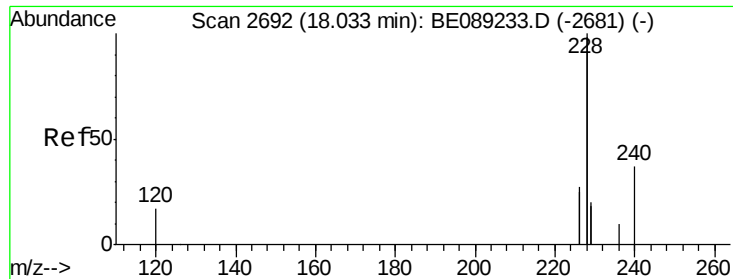
Ion Ratio Lower Upper

244 100

212 6.9 6.2 9.4

122 19.0 16.2 24.2





#23

Benzo(a)anthracene

Concen: 7.90 ng

RT: 18.03 min Scan# 2691

Delta R.T. -0.00 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampleId :

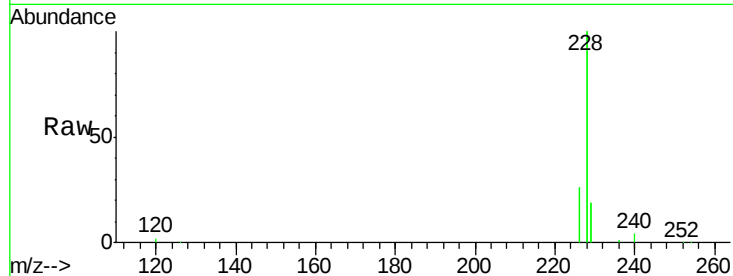
Tgt Ion:228 Resp: 390587

Ion Ratio Lower Upper

228 100

226 26.3 21.4 32.0

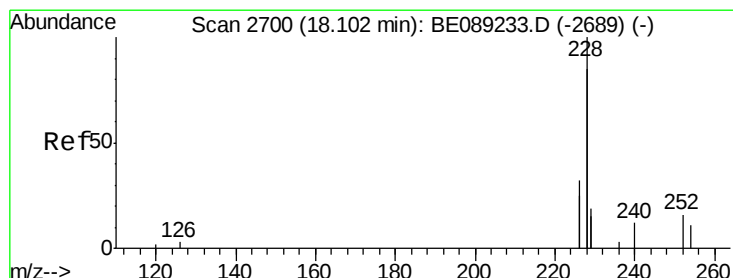
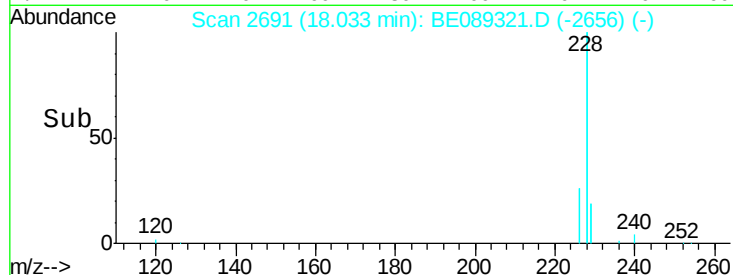
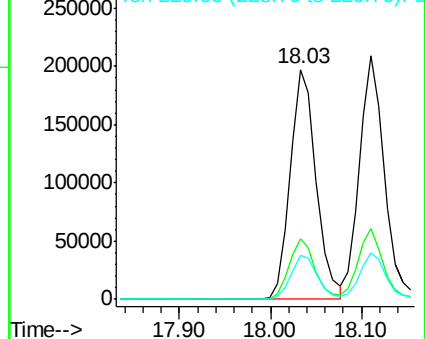
229 19.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

3,3'-Dichlorobenzidine

Concen: 9.19 ng

RT: 18.09 min Scan# 2698

Delta R.T. -0.01 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

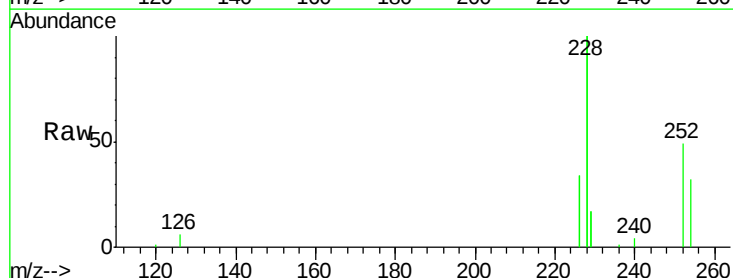
Tgt Ion:252 Resp: 36563

Ion Ratio Lower Upper

252 100

254 65.4 53.0 79.6

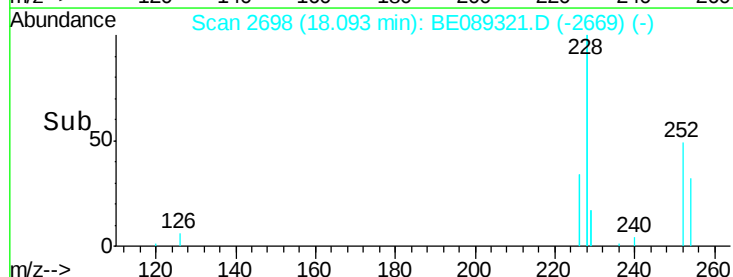
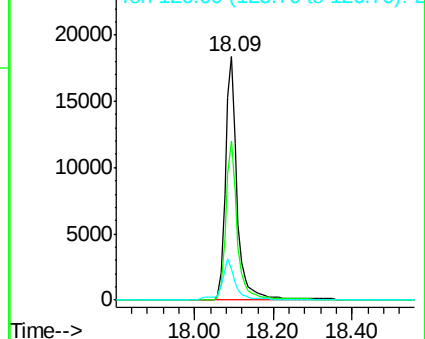
126 13.0 15.0 22.6#

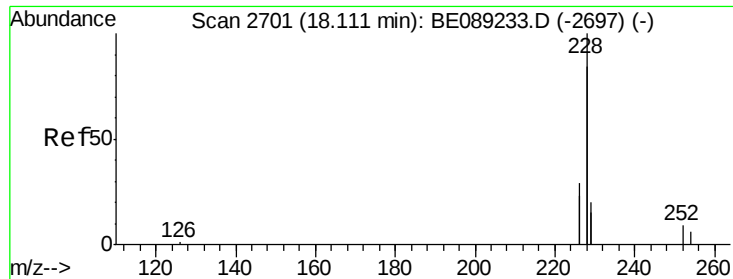


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E

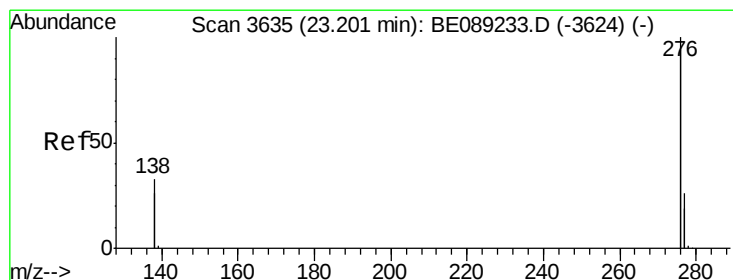
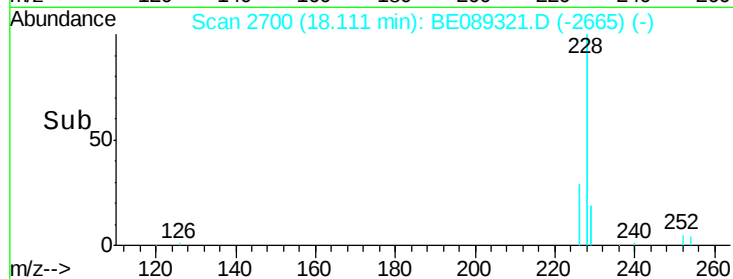
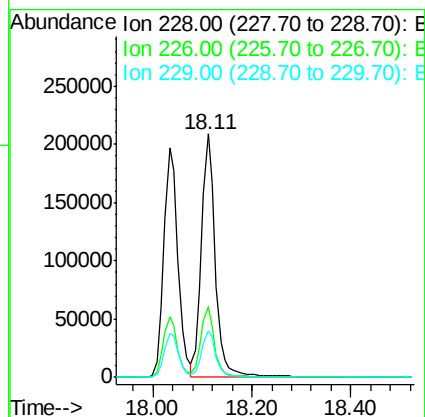
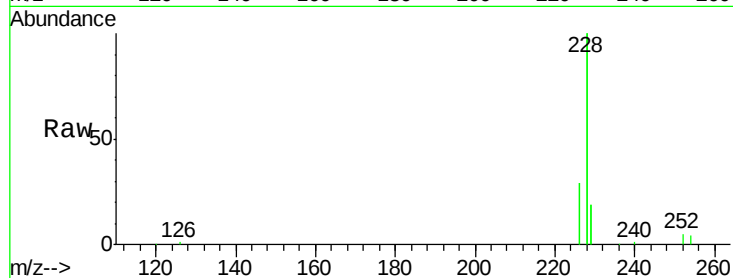




#25
Chrysene
Concen: 7.81 ng
RT: 18.11 min Scan# 2700
Delta R.T. -0.00 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

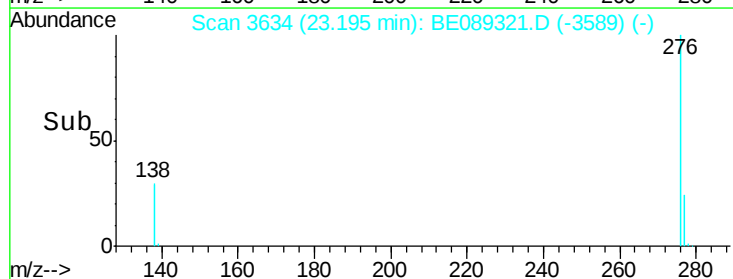
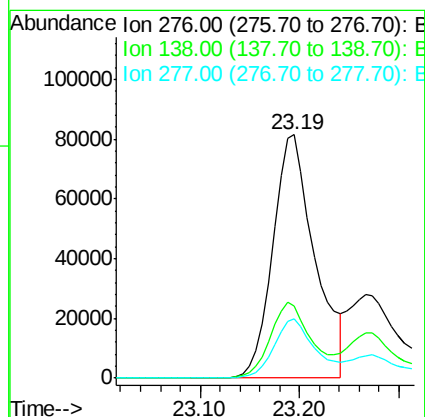
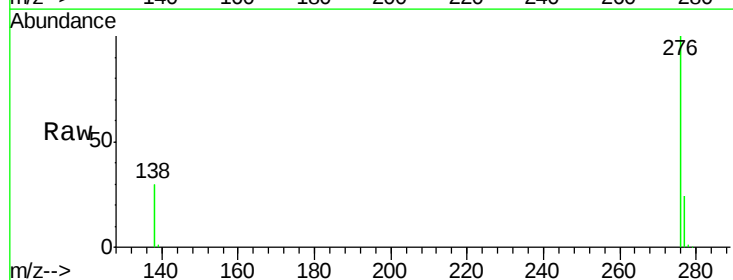
Instrument :
BNA_E
ClientSampleId :

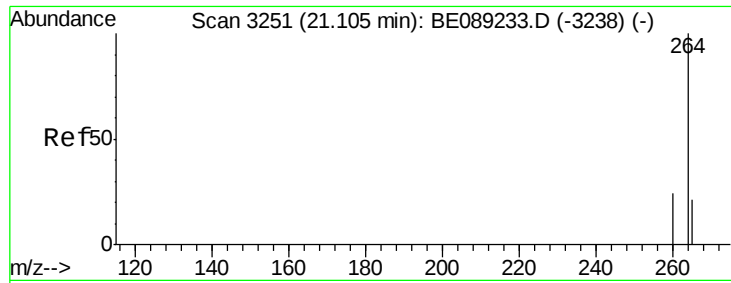
Tgt Ion:228 Resp: 406786
Ion Ratio Lower Upper
228 100
226 29.1 23.2 34.8
229 19.4 16.2 24.2



#26
Indeno(1,2,3-cd)pyrene
Concen: 5.83 ng
RT: 23.19 min Scan# 3634
Delta R.T. -0.01 min
Lab File: BE089321.D
Acq: 5 Jan 2015 19:15

Tgt Ion:276 Resp: 237086
Ion Ratio Lower Upper
276 100
138 30.4 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

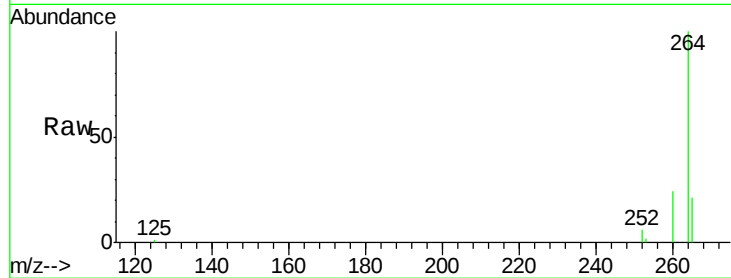
Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampleId :



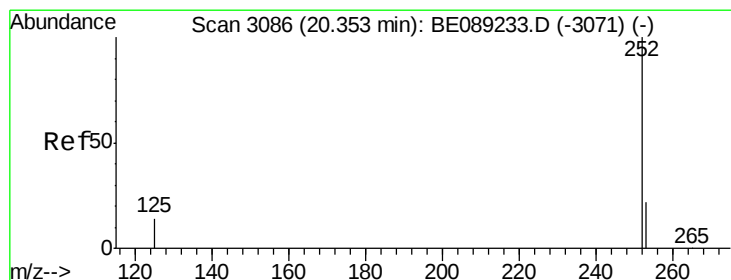
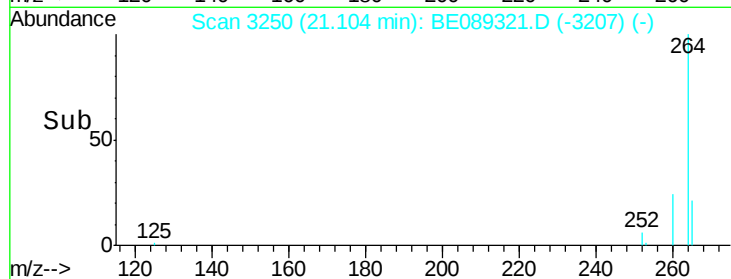
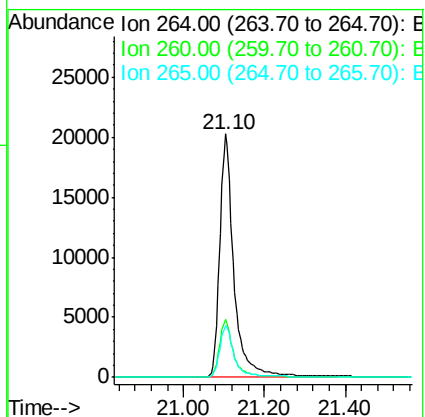
Tgt Ion:264 Resp: 49208

Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.0

265 21.5 17.1 25.7



#28

Benzo(b)fluoranthene

Concen: 8.96 ng

RT: 20.35 min Scan# 3085

Delta R.T. -0.00 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

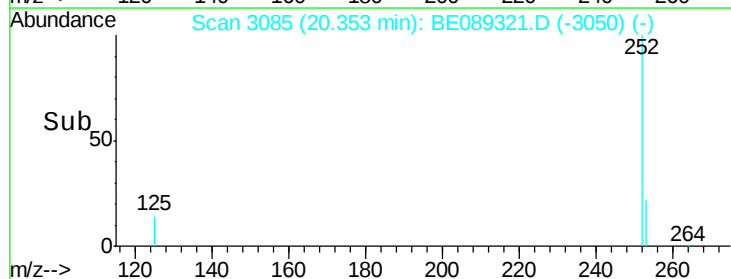
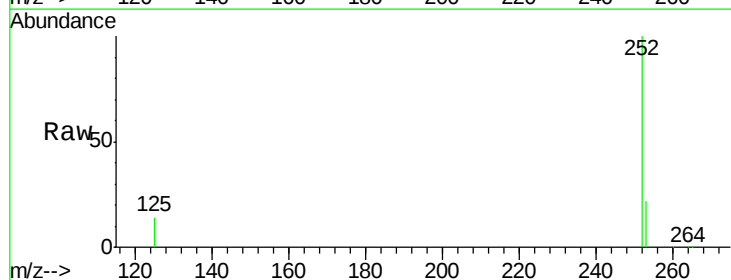
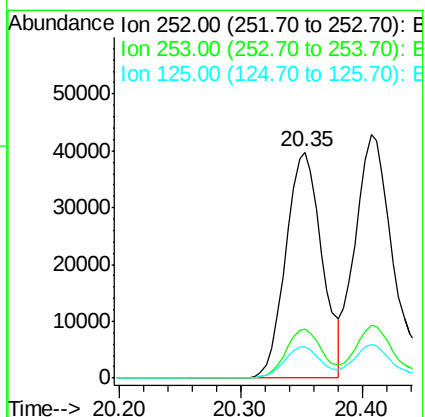
Tgt Ion:252 Resp: 82112

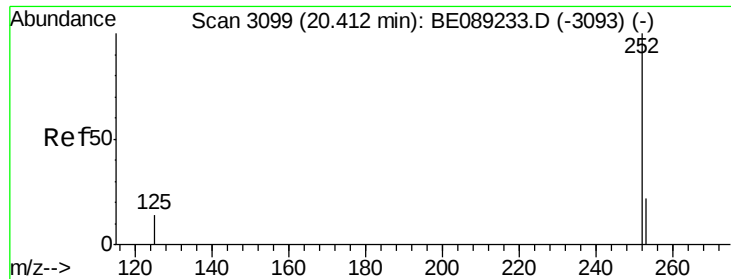
Ion Ratio Lower Upper

252 100

253 21.8 18.1 27.1

125 13.8 12.2 18.4





#29

Benzo(k)fluoranthene

Concen: 8.09 ng

RT: 20.41 min Scan# 3097

Delta R.T. -0.01 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampleId :

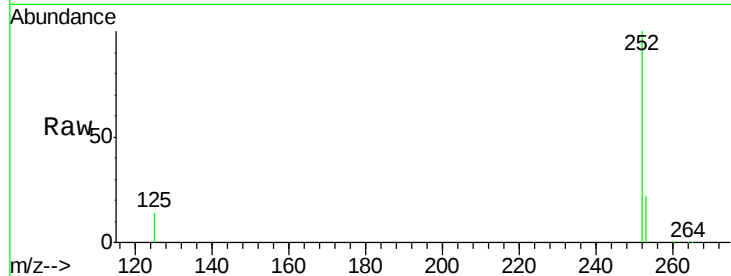
Tgt Ion:252 Resp: 101135

Ion Ratio Lower Upper

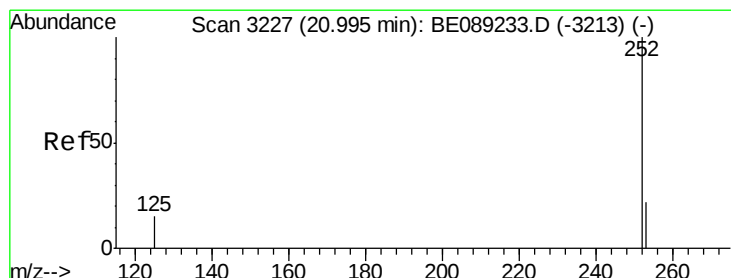
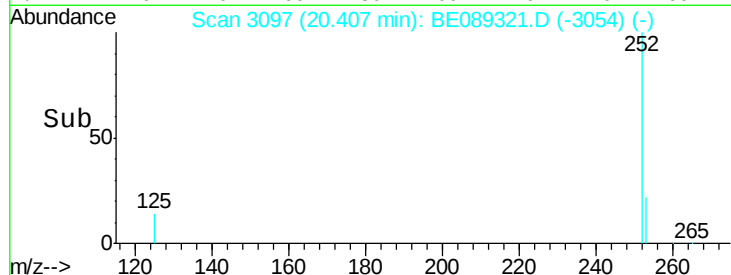
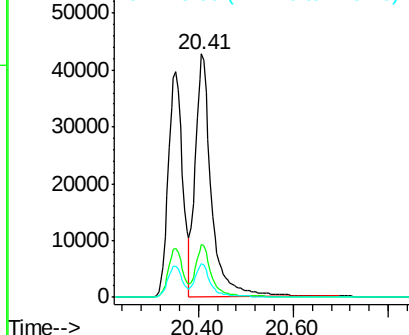
252 100

253 21.6 18.1 27.1

125 14.1 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: 9.17 ng

RT: 20.99 min Scan# 3225

Delta R.T. -0.00 min

Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

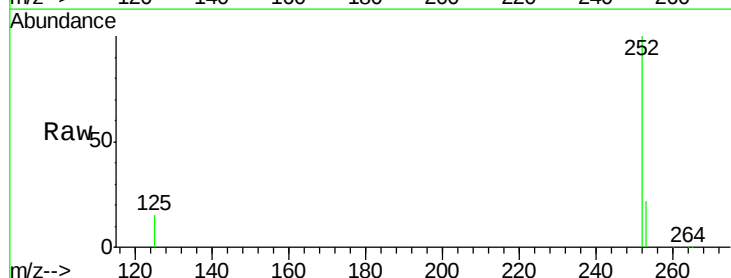
Tgt Ion:252 Resp: 82558

Ion Ratio Lower Upper

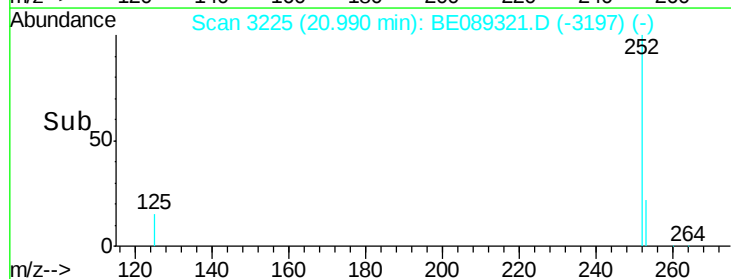
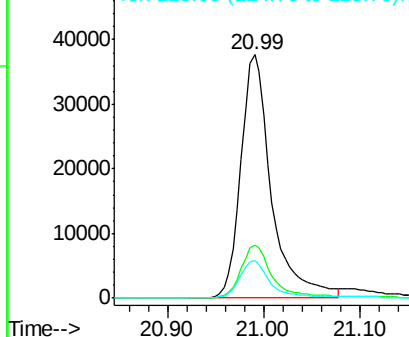
252 100

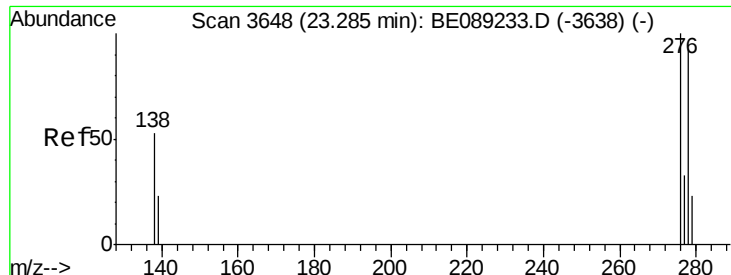
253 21.8 18.3 27.5

125 15.2 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: 8.72 ng

RT: 23.27 min Scan# 3646

Delta R.T. -0.01 min

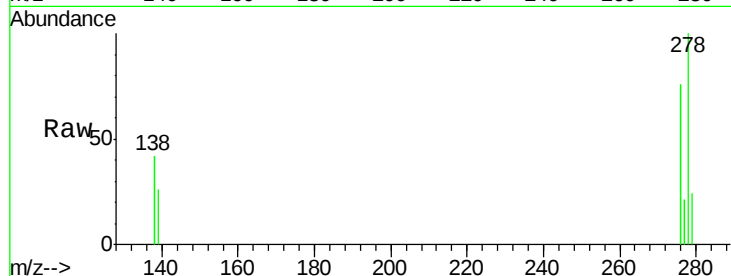
Lab File: BE089321.D

Acq: 5 Jan 2015 19:15

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:278 Resp: 67300

Ion Ratio Lower Upper

278 100

139 26.5 23.2 34.8

279 23.9 21.7 32.5

