

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
 Data File : BECCAL03.D
 Acq On : 4 Feb 2015 6:39
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 04 07:23:04 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 04 00:53:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.54	152	56585	5.00	ng	0.00
7) Naphthalene-d8	12.44	136	228669	5.00	ng	0.01
13) Acenaphthene-d10	16.62	164	99547	5.00	ng	0.00
17) Phenanthrene-d10	19.94	188	186704	5.00	ng	0.00
20) Chrysene-d12	23.79	240	173560	5.00	ng	0.00
27) Perylene-d12	25.50	264	163143	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.76	112	17802	0.97	ng	0.04
4) Phenol-d6	8.89	99	22708	0.99	ng	0.05
8) Nitrobenzene-d5	10.80	82	17651	1.02	ng	0.01
14) 2,4,6-Tribromophenol	18.53	330	3606	1.00	ng	0.02
15) 2-Fluorobiphenyl	15.07	172	27548	1.05	ng	0.00
22) Terphenyl-d14	22.44	244	28450	1.16	ng	0.00

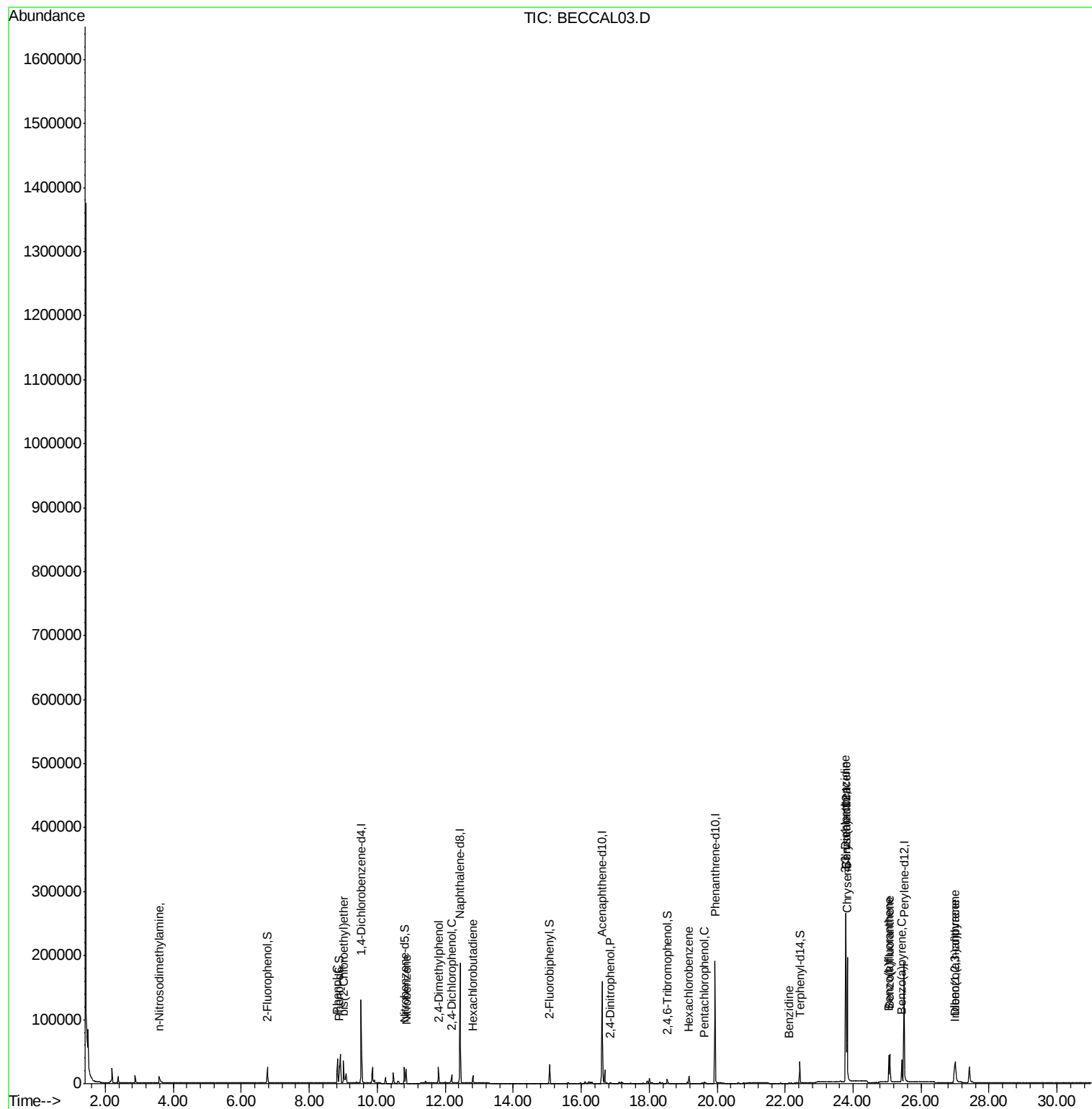
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.58	42	9746	0.92	ng	# 81
5) Phenol	8.84	94	1740	0.07	ng	# 1
6) bis(2-Chloroethyl)ether	9.01	93	17646	0.97	ng	# 99
9) Nitrobenzene	10.85	77	19303	0.98	ng	99
10) 2,4-Dimethylphenol	11.81	122	14130	0.99	ng	94
11) 2,4-Dichlorophenol	12.19	162	10593	1.00	ng	84
12) Hexachlorobutadiene	12.81	225	6940	0.98	ng	98
16) 2,4-Dinitrophenol	16.86	184	418	1.03	ng	98
18) Hexachlorobenzene	19.18	284	9522	0.99	ng	95
19) Pentachlorophenol	19.63	266	1488	1.07	ng	97
21) Benzidine	22.11	184	186	0.11	ng	# 1
23) Benzo(a)anthracene	23.78	228	158948	1.03	ng	97
24) 3,3'-Dichlorobenzidine	23.77	252	10565	0.83	ng	# 89
25) Chrysene	23.83	228	155310	0.97	ng	98
26) Indeno(1,2,3-cd)pyrene	26.98	276	44659	1.10	ng	99
28) Benzo(b)fluoranthene	25.05	252	36102	1.13	ng	100
29) Benzo(k)fluoranthene	25.08	252	40963	0.97	ng	99
30) Benzo(a)pyrene	25.43	252	34447	1.10	ng	99
31) Dibenzo(a,h)anthracene	27.01	278	38644	1.13	ng	99

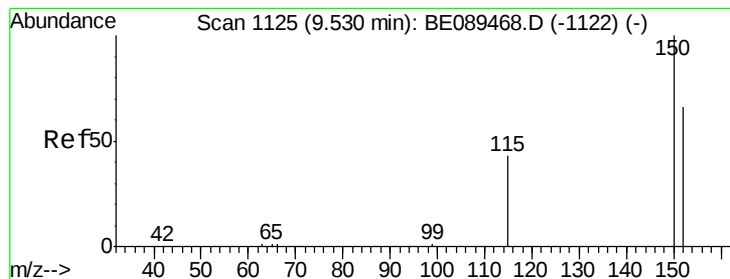
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
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Quant Time: Feb 04 07:23:04 2015
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 04 00:53:32 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.54 min Scan# 1126

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

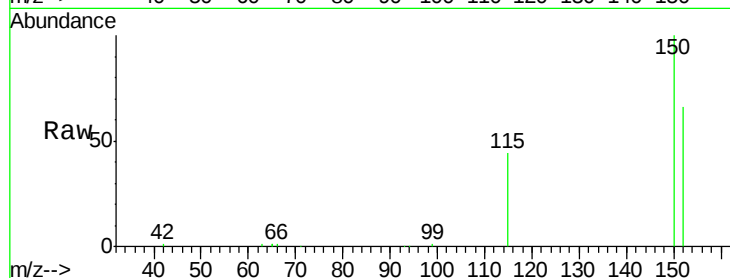
Tgt Ion:152 Resp: 56585

Ion Ratio Lower Upper

152 100

150 151.0 122.1 183.1

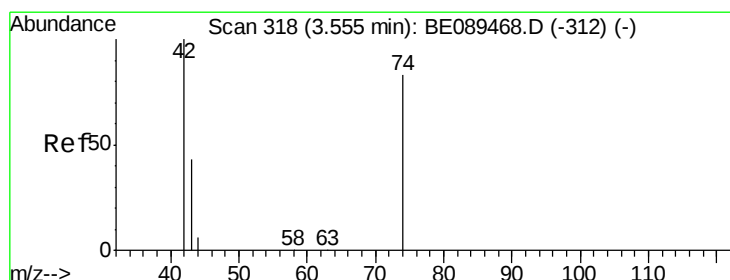
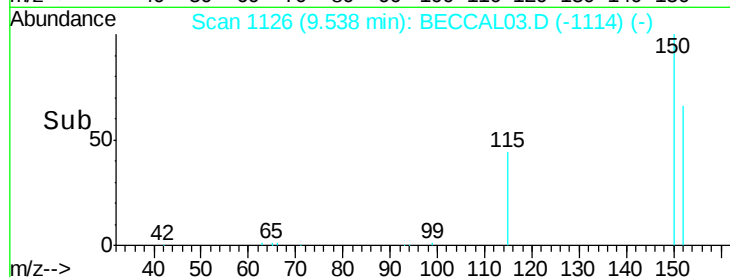
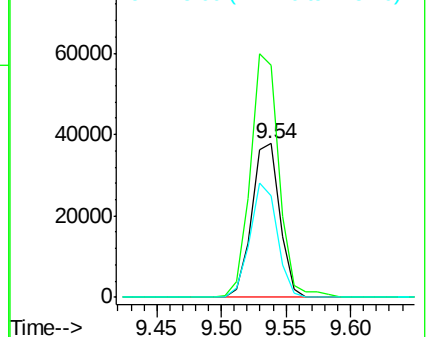
115 66.2 53.2 79.8



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: 0.92 ng

RT: 3.58 min Scan# 322

Delta R.T. 0.03 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

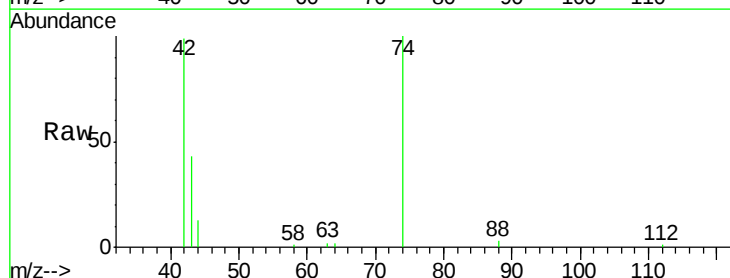
Tgt Ion: 42 Resp: 9746

Ion Ratio Lower Upper

42 100

74 101.3 65.4 98.2#

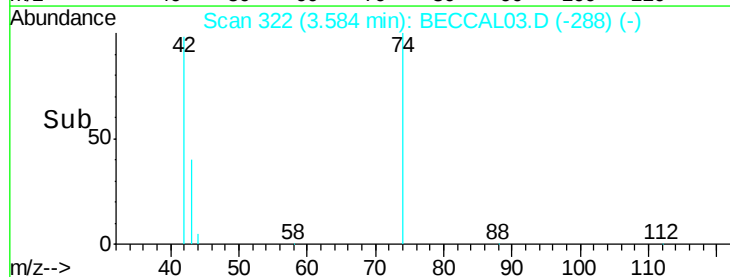
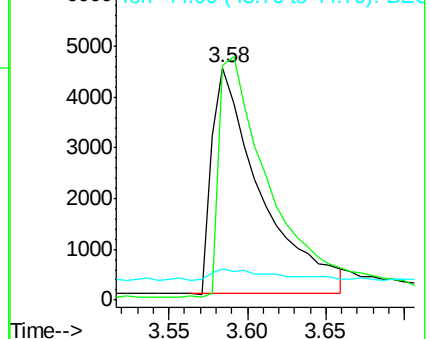
44 13.3 11.7 17.5

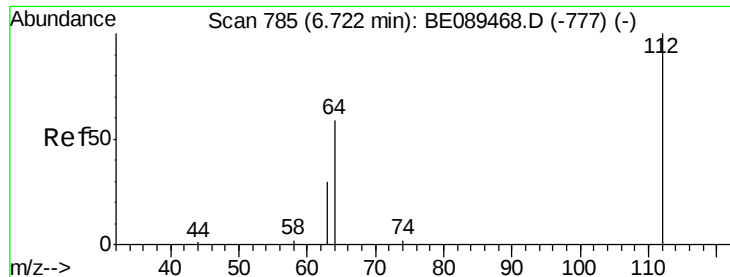


Abundance Ion 42.00 (41.70 to 42.70): BEC

Ion 74.00 (73.70 to 74.70): BEC

Ion 44.00 (43.70 to 44.70): BEC





#3

2-Fluorophenol

Concen: 0.97 ng

RT: 6.76 min Scan# 791

Delta R.T. 0.04 min

Lab File: BECCAL03.D

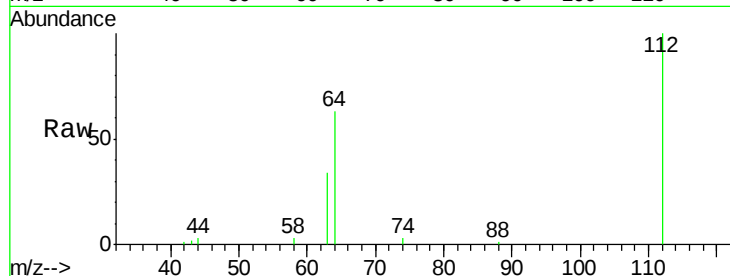
Acq: 4 Feb 2015 6:39

Instrument :

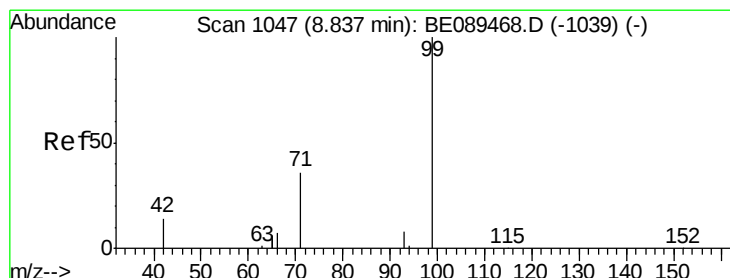
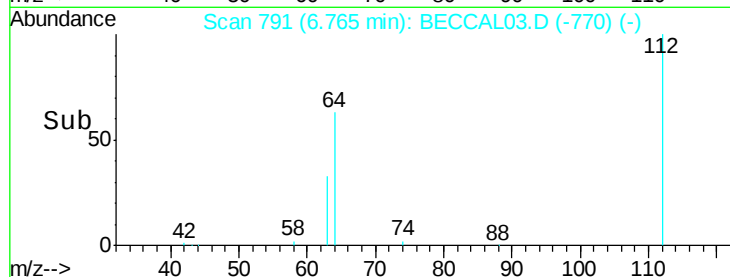
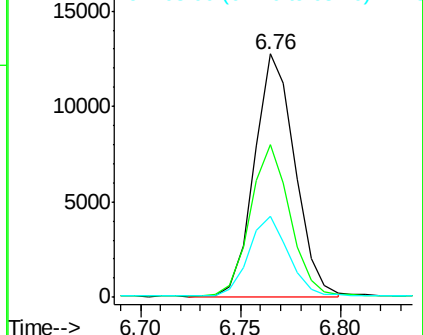
BNA_E

ClientSampleId :

Tgt Ion:	112	Resp:	17802
Ion	Ratio	Lower	Upper
112	100		
64	62.9	47.0	70.6
63	33.5	24.2	36.2



Abundance Ion 112.00 (111.70 to 112.70): BECCAL03.D (-1013) (-)



#4

Phenol-d6

Concen: 0.99 ng

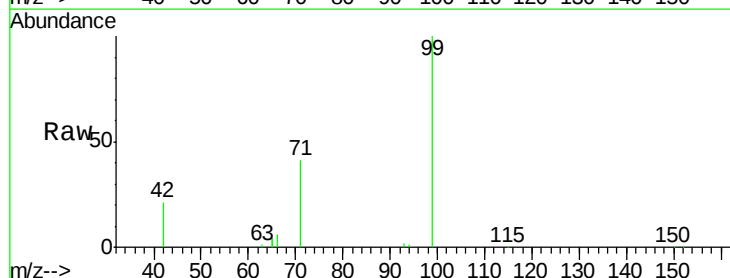
RT: 8.89 min Scan# 1053

Delta R.T. 0.05 min

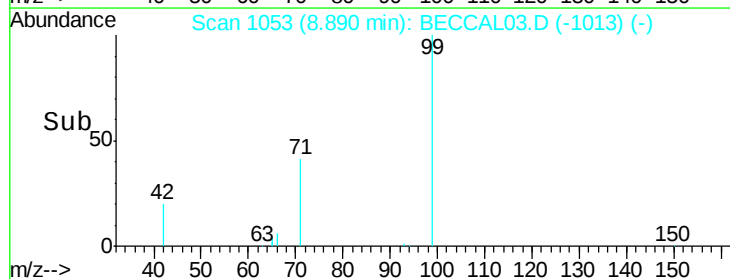
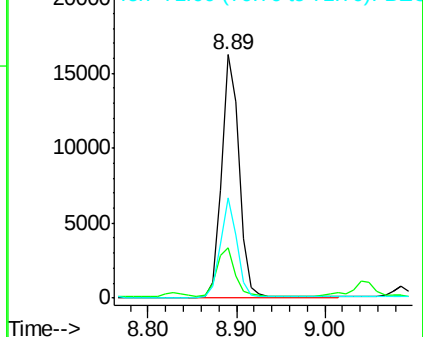
Lab File: BECCAL03.D

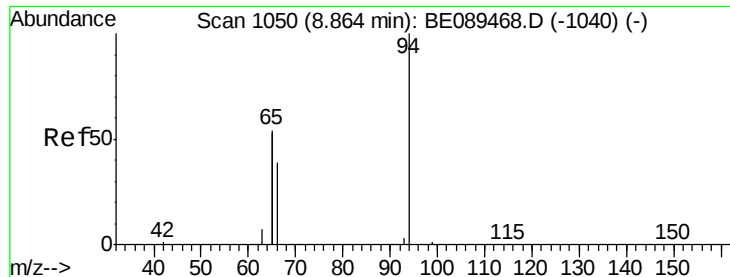
Acq: 4 Feb 2015 6:39

Tgt Ion:	99	Resp:	22708
Ion	Ratio	Lower	Upper
99	100		
42	20.6	11.8	17.6#
71	40.9	28.7	43.1



Abundance Ion 99.00 (98.70 to 99.70): BECCAL03.D (-1013) (-)





#5

Phenol

Concen: 0.07 ng

RT: 8.84 min Scan# 1047

Delta R.T. -0.03 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

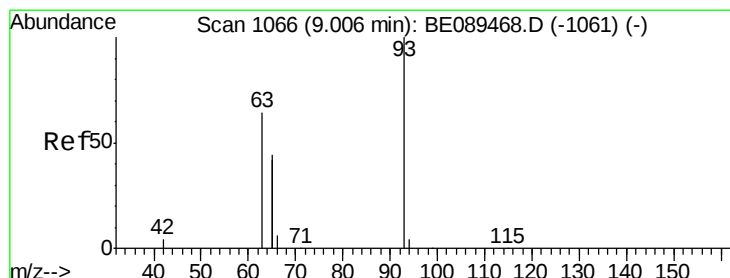
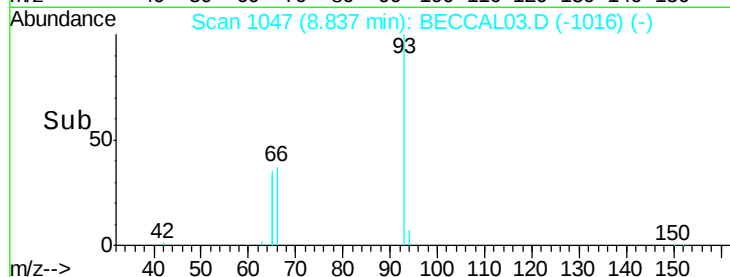
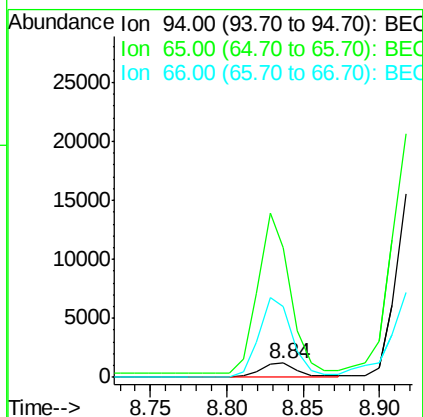
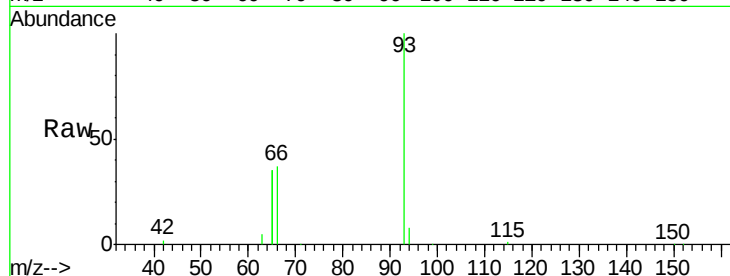
Tgt Ion: 94 Resp: 1740

Ion Ratio Lower Upper

94 100

65 902.6 33.9 73.9#

66 487.8 19.1 59.1#



#6

bis(2-Chloroethyl)ether

Concen: 0.97 ng

RT: 9.01 min Scan# 1067

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

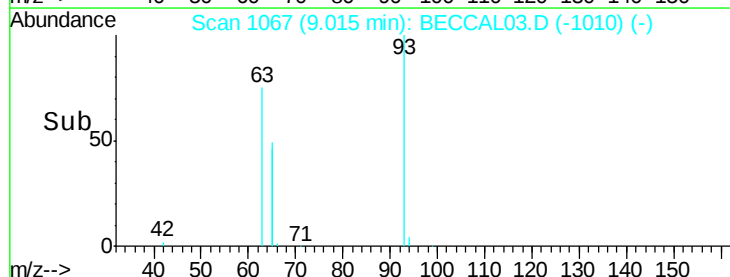
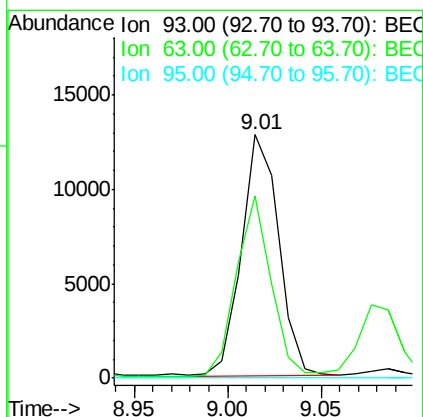
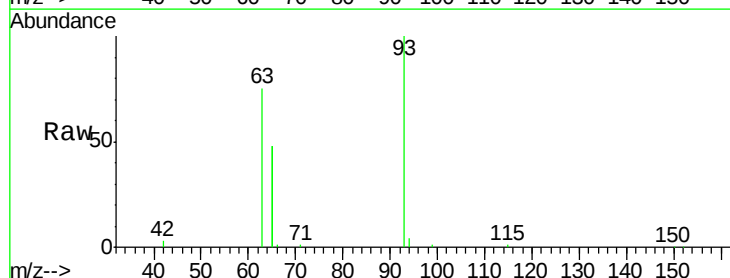
Tgt Ion: 93 Resp: 17646

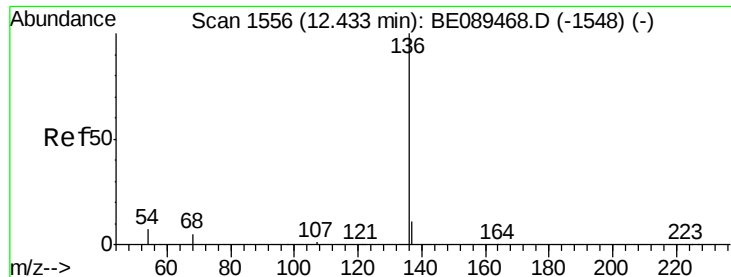
Ion Ratio Lower Upper

93 100

63 70.4 57.0 85.6

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.44 min Scan# 1557

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

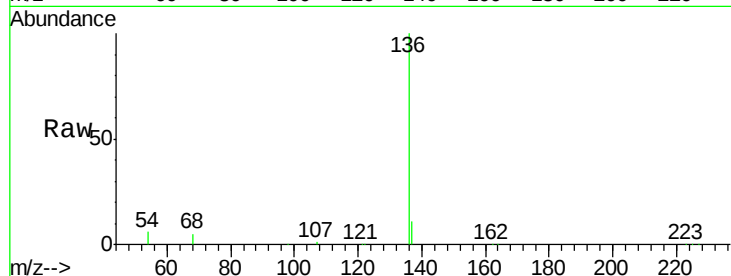
Tgt Ion: 136 Resp: 228669

Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

54 6.3 5.4 8.0



Abundance Ion 136.00 (135.70 to 136.70): BECCAL03.D (-1548) (-)

Ion 137.00 (136.70 to 137.70): BECCAL03.D (-1548) (-)

Ion 54.00 (53.70 to 54.70): BECCAL03.D (-1548) (-)

12.44

150000

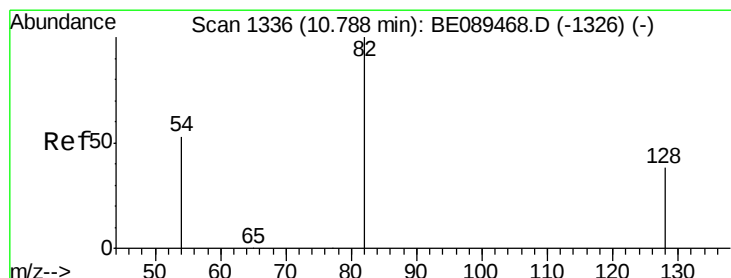
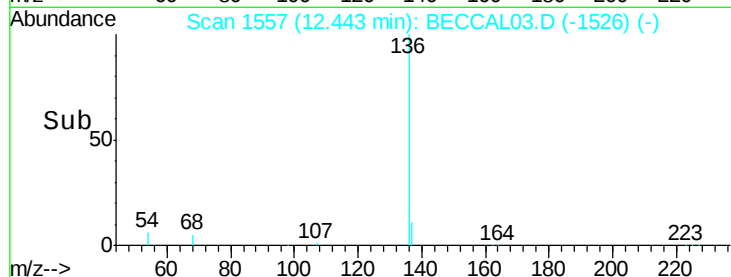
100000

50000

0

Time-->

12.40 12.50



#8

Nitrobenzene-d5

Concen: 1.02 ng

RT: 10.80 min Scan# 1339

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

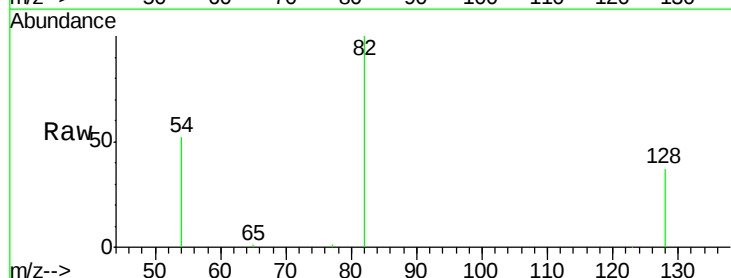
Tgt Ion: 82 Resp: 17651

Ion Ratio Lower Upper

82 100

128 36.9 30.3 45.5

54 52.1 43.1 64.7



Abundance Ion 82.00 (81.70 to 82.70): BECCAL03.D (-1272) (-)

Ion 128.00 (127.70 to 128.70): BECCAL03.D (-1272) (-)

Ion 54.00 (53.70 to 54.70): BECCAL03.D (-1272) (-)

10.80

15000

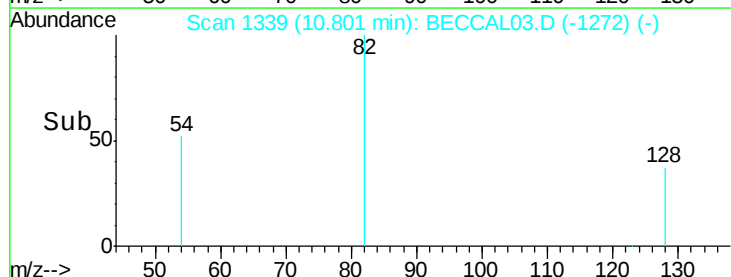
10000

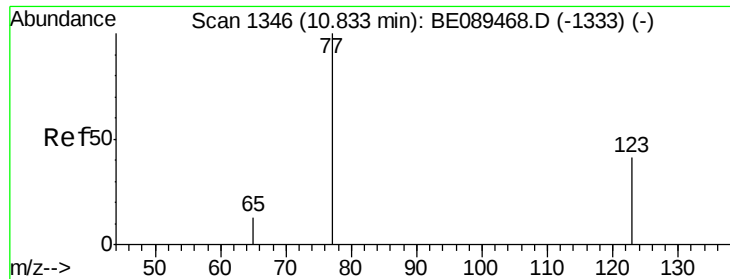
5000

0

Time-->

10.70 10.80





#9

Nitrobenzene

Concen: 0.98 ng

RT: 10.85 min Scan# 1349

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

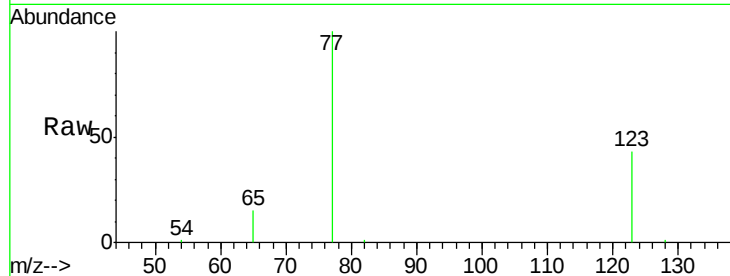
Tgt Ion: 77 Resp: 19303

Ion Ratio Lower Upper

77 100

123 42.0 33.4 50.0

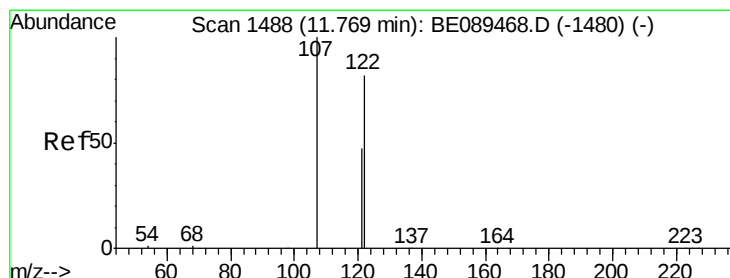
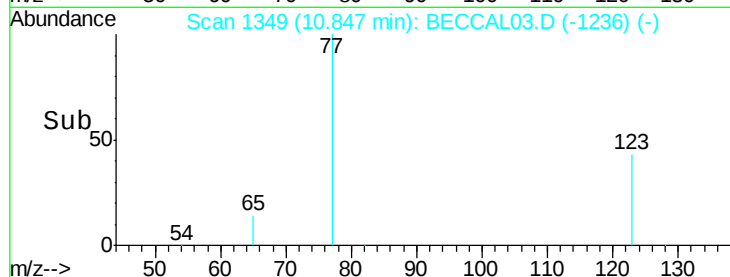
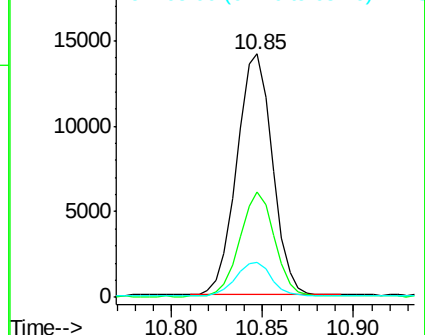
65 13.9 10.9 16.3



Abundance Ion 77.00 (76.70 to 77.70): BECCAL03.D (-1333) (-)

Ion 123.00 (122.70 to 123.70): BECCAL03.D (-1333) (-)

Ion 65.00 (64.70 to 65.70): BECCAL03.D (-1333) (-)



#10

2,4-Dimethylphenol

Concen: 0.99 ng

RT: 11.81 min Scan# 1492

Delta R.T. 0.04 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

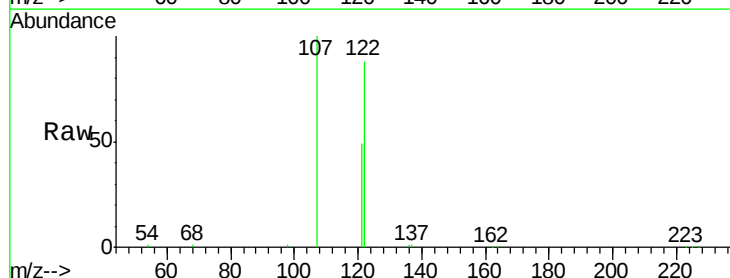
Tgt Ion: 122 Resp: 14130

Ion Ratio Lower Upper

122 100

107 113.2 97.3 145.9

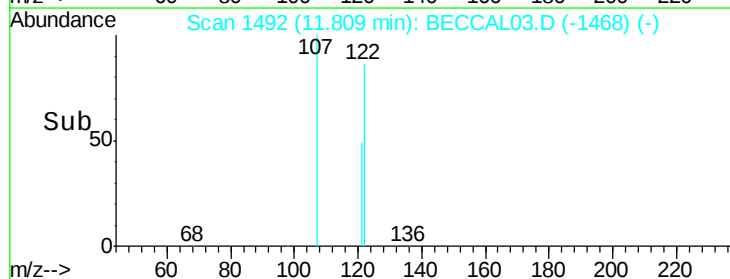
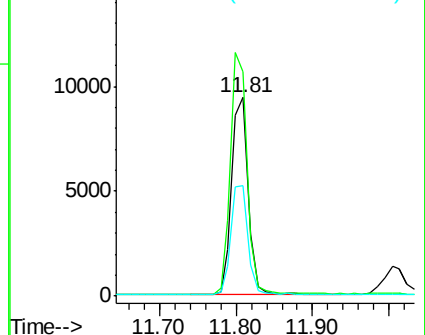
121 55.7 46.4 69.6

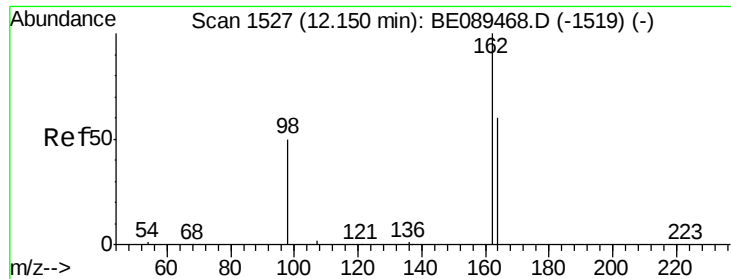


Abundance Ion 122.00 (121.70 to 122.70): BECCAL03.D (-1468) (-)

Ion 107.00 (106.70 to 107.70): BECCAL03.D (-1468) (-)

Ion 121.00 (120.70 to 121.70): BECCAL03.D (-1468) (-)

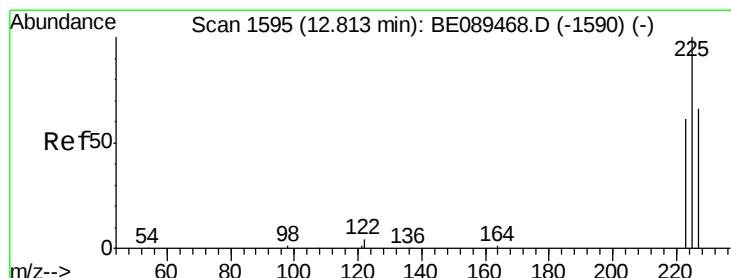
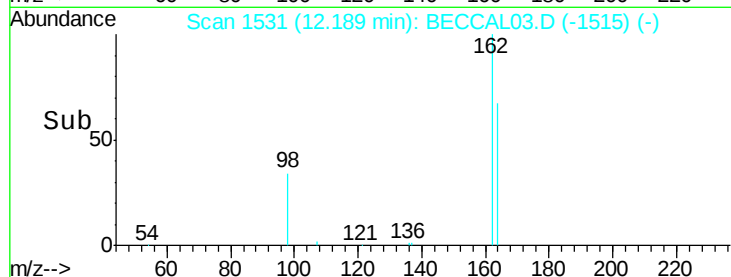
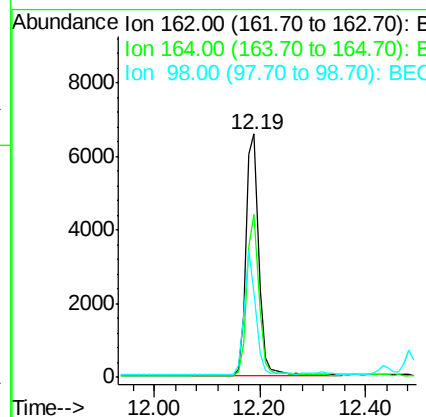
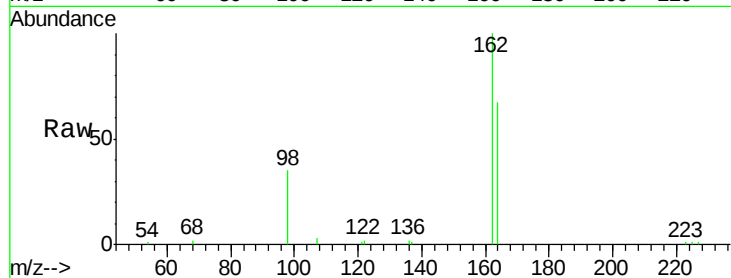




#11
2,4-Dichlorophenol
Concen: 1.00 ng
RT: 12.19 min Scan# 1531
Delta R.T. 0.04 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

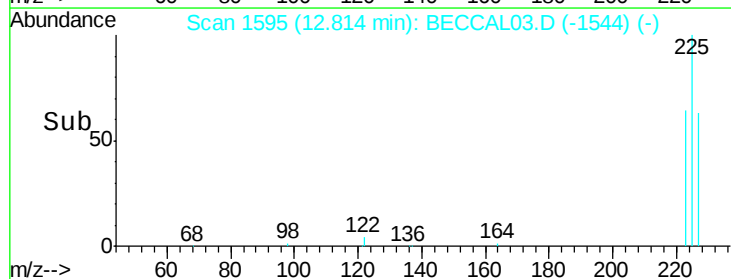
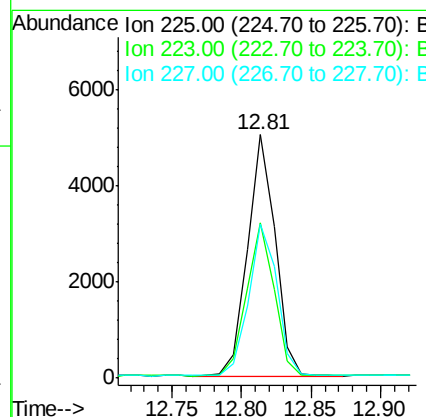
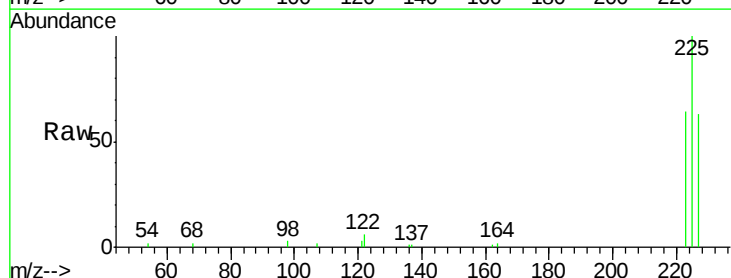
Instrument :
BNA_E
ClientSampleId :

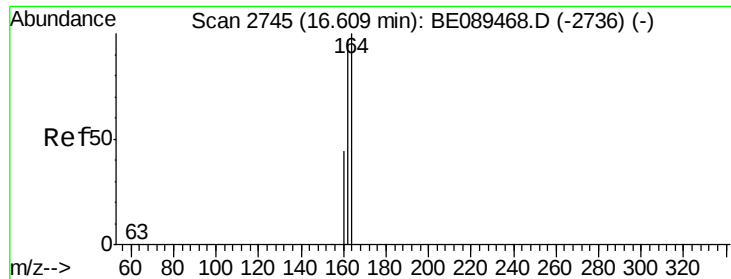
Tgt Ion:162 Resp: 10593
Ion Ratio Lower Upper
162 100
164 67.1 39.9 79.9
98 35.0 31.3 71.3



#12
Hexachlorobutadiene
Concen: 0.98 ng
RT: 12.81 min Scan# 1595
Delta R.T. 0.00 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

Tgt Ion:225 Resp: 6940
Ion Ratio Lower Upper
225 100
223 63.6 49.4 74.0
227 64.6 51.2 76.8

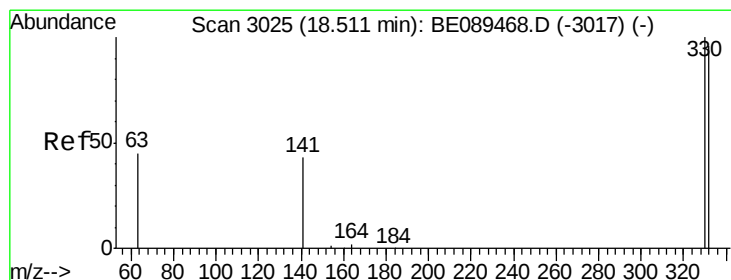
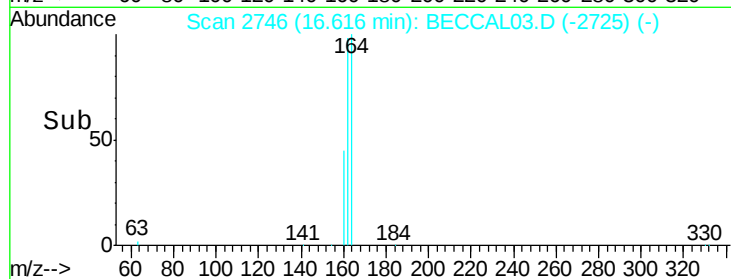
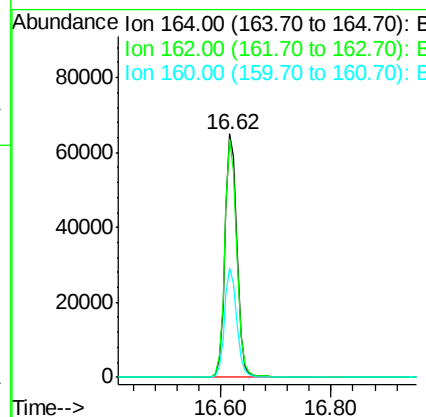
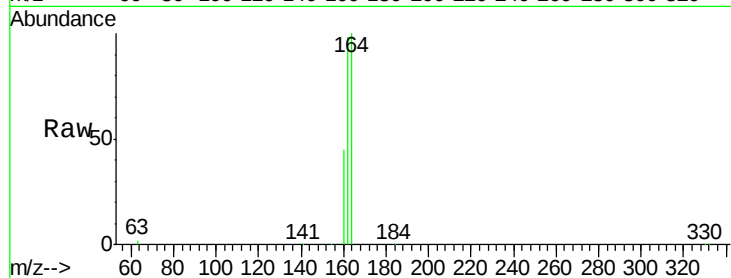




#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.62 min Scan# 2746
Delta R.T. 0.01 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

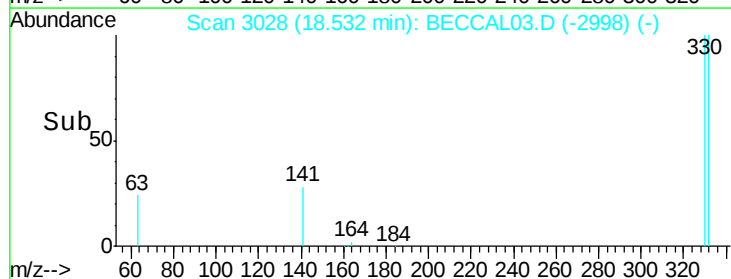
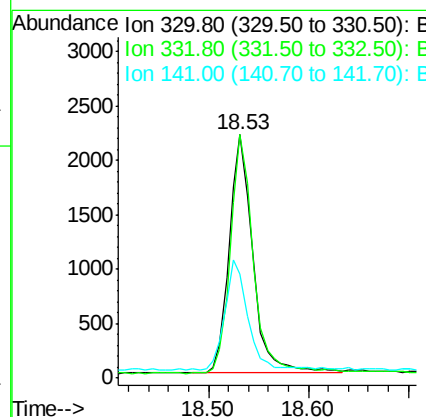
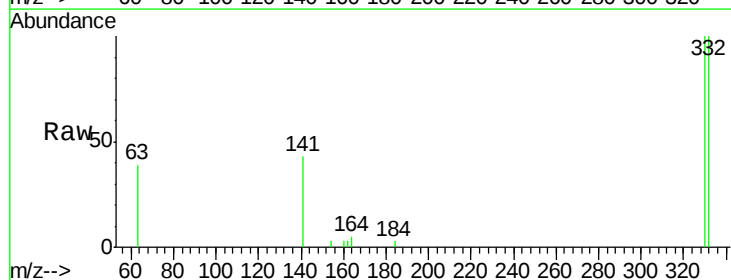
Instrument :
BNA_E
ClientSampleId :

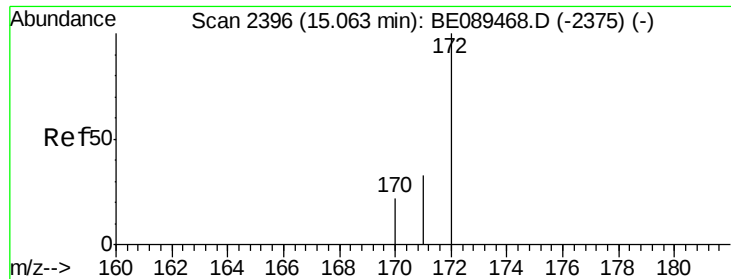
Tgt Ion:164 Resp: 99547
Ion Ratio Lower Upper
164 100
162 97.7 77.6 116.4
160 45.0 35.6 53.4



#14
2,4,6-Tribromophenol
Concen: 1.00 ng
RT: 18.53 min Scan# 3028
Delta R.T. 0.02 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

Tgt Ion:330 Resp: 3606
Ion Ratio Lower Upper
330 100
332 98.6 78.0 117.0
141 44.1 33.8 50.6

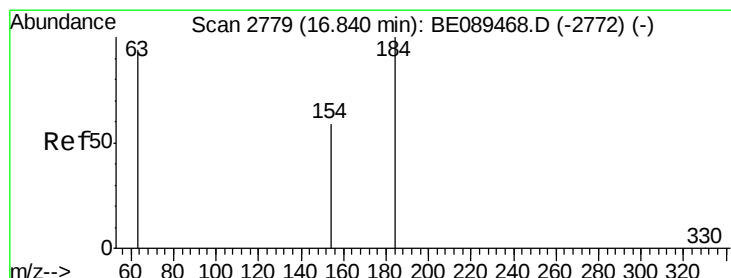
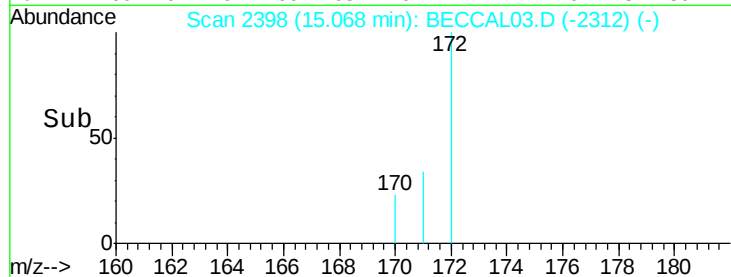
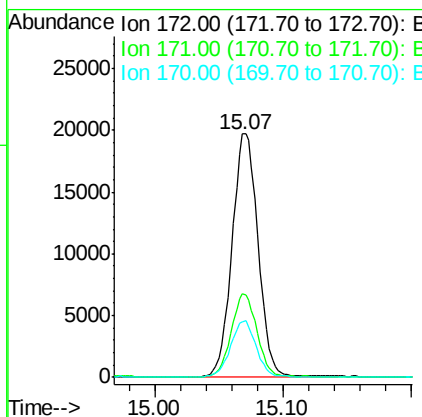
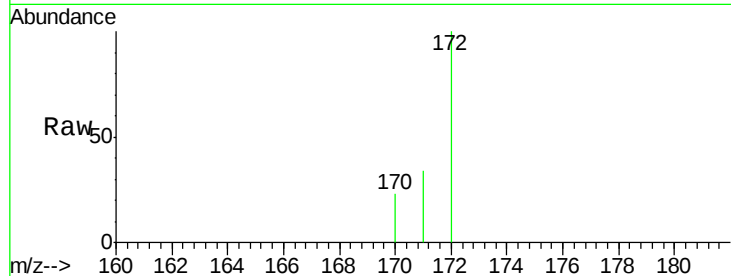




#15
2-Fluorobiphenyl
Concen: 1.05 ng
RT: 15.07 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

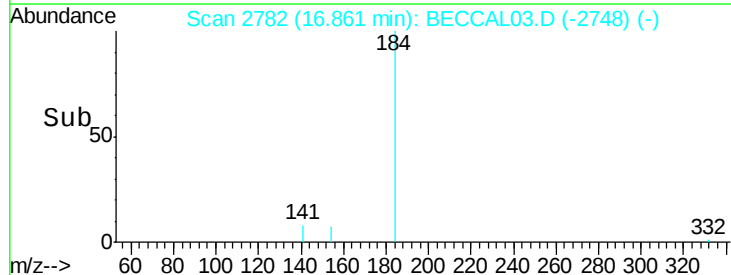
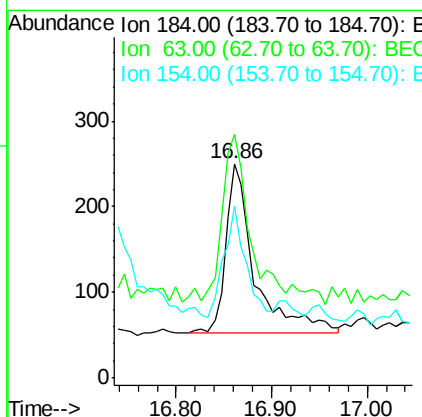
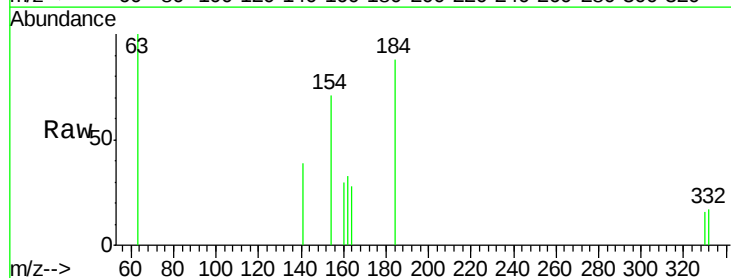
Instrument :
BNA_E
ClientSampleId :

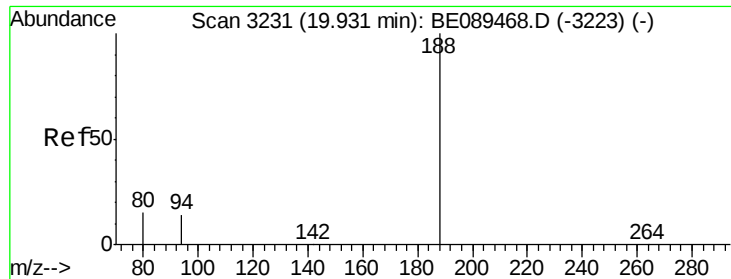
Tgt Ion:172 Resp: 27548
Ion Ratio Lower Upper
172 100
171 34.3 26.8 40.2
170 22.8 17.7 26.5



#16
2,4-Dinitrophenol
Concen: 1.03 ng
RT: 16.86 min Scan# 2782
Delta R.T. 0.02 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

Tgt Ion:184 Resp: 418
Ion Ratio Lower Upper
184 100
63 113.6 92.1 138.1
154 80.4 61.4 92.2

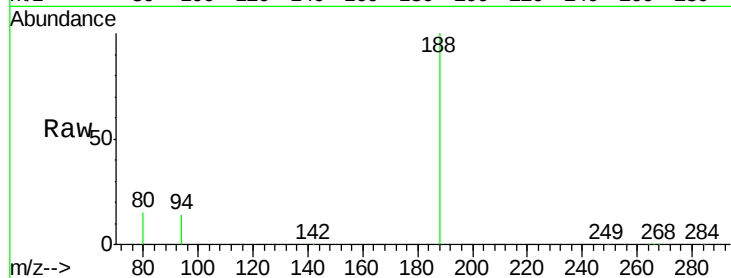




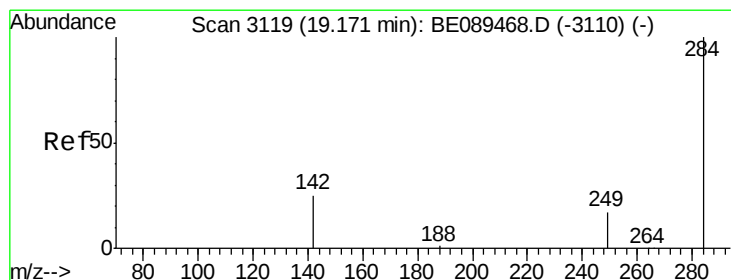
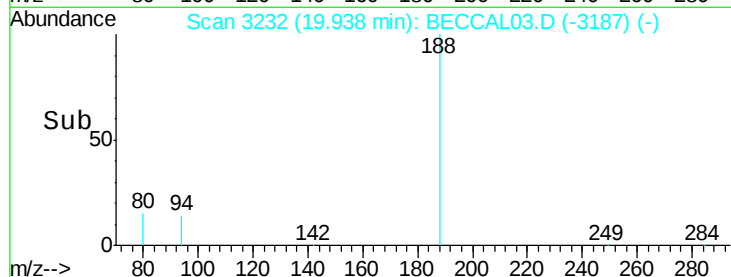
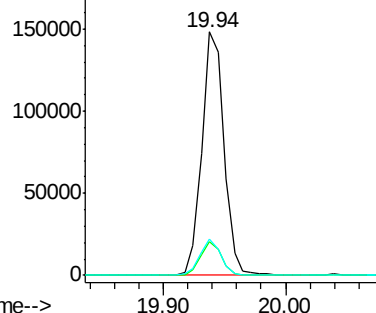
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.94 min Scan# 3232
Delta R.T. 0.01 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 186704
Ion Ratio Lower Upper
188 100
94 14.0 11.1 16.7
80 15.0 11.8 17.6

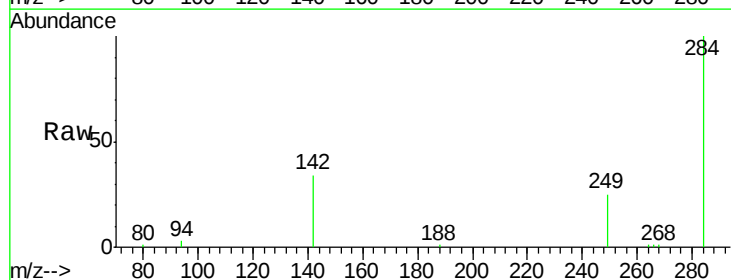


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE
Ion 80.00 (79.70 to 80.70): BE

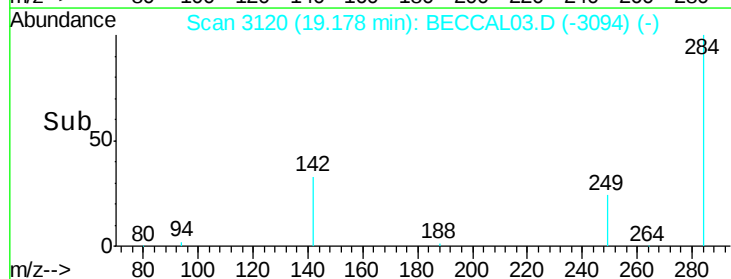
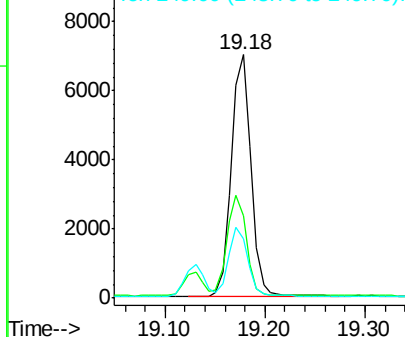


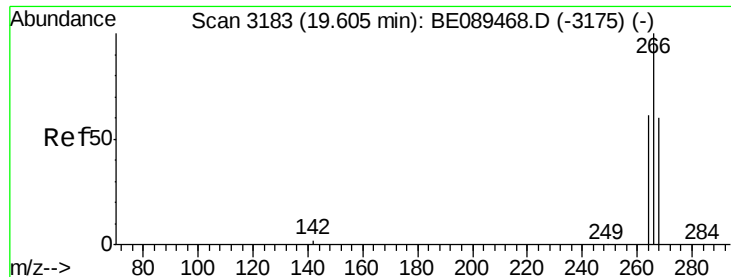
#18
Hexachlorobenzene
Concen: 0.99 ng
RT: 19.18 min Scan# 3120
Delta R.T. 0.01 min
Lab File: BECCAL03.D
Acq: 4 Feb 2015 6:39

Tgt Ion:284 Resp: 9522
Ion Ratio Lower Upper
284 100
142 34.0 24.4 36.6
249 24.5 18.2 27.2



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: 1.07 ng

RT: 19.63 min Scan# 3186

Delta R.T. 0.02 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

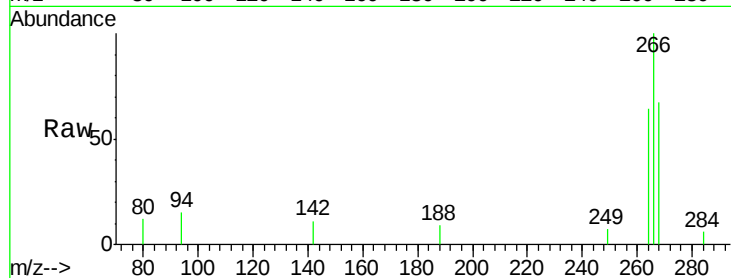
Tgt Ion:266 Resp: 1488

Ion Ratio Lower Upper

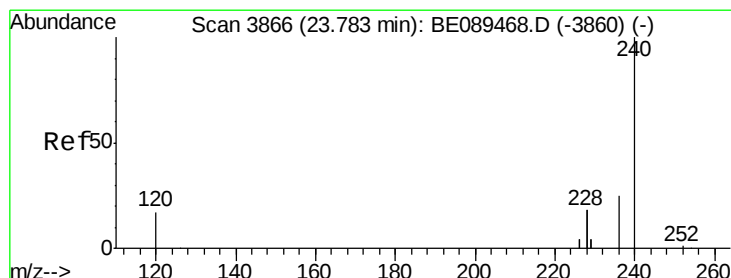
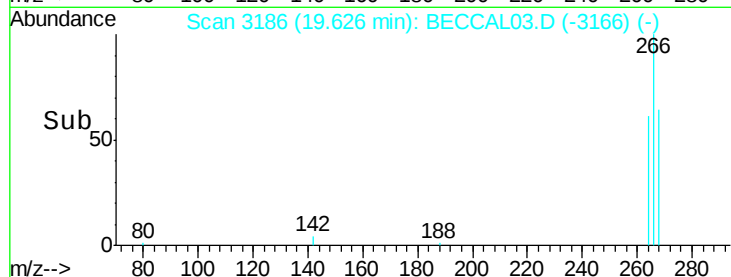
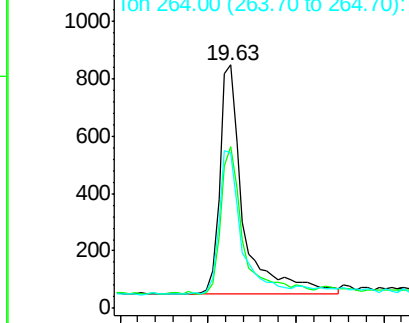
266 100

268 66.6 50.0 75.0

264 63.6 50.6 75.8



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



#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.79 min Scan# 3867

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

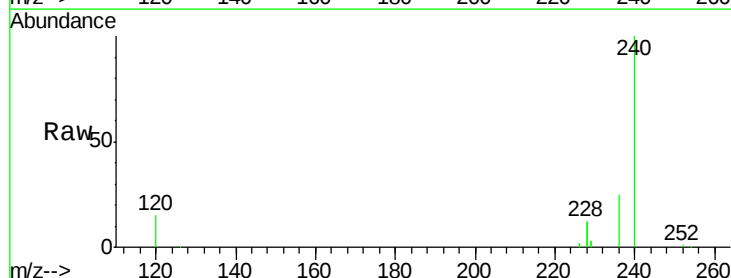
Tgt Ion:240 Resp: 173560

Ion Ratio Lower Upper

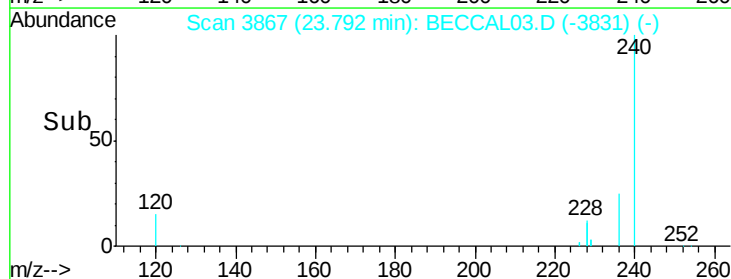
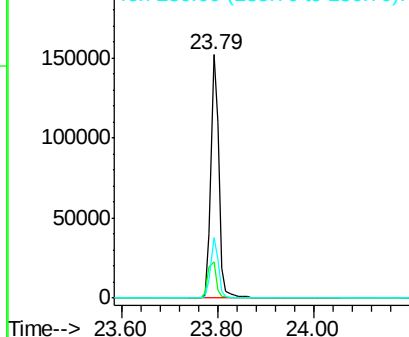
240 100

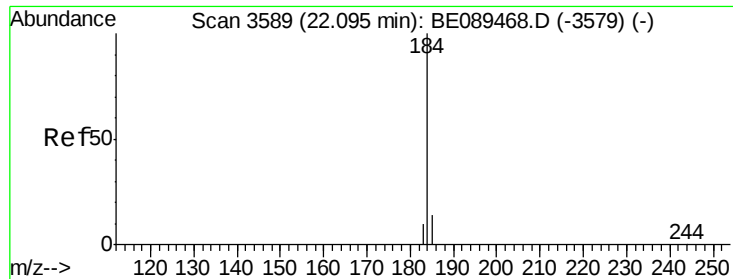
120 14.8 13.8 20.6

236 24.8 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: 0.11 ng

RT: 22.11 min Scan# 3593

Delta R.T. 0.02 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampled :

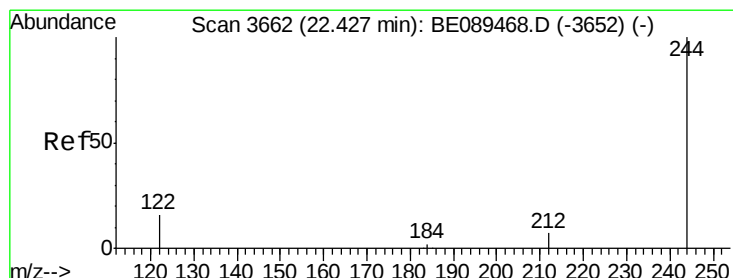
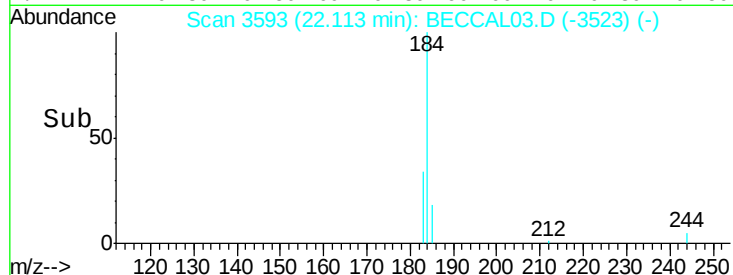
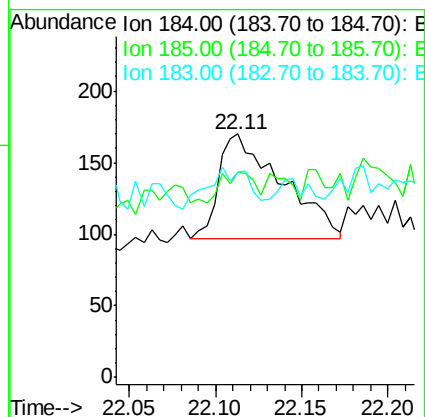
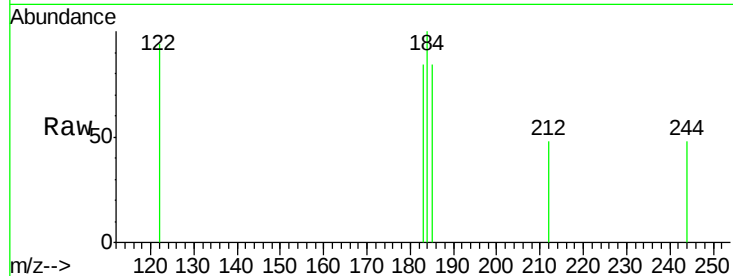
Tgt Ion:184 Resp: 186

Ion Ratio Lower Upper

184 100

185 84.1 12.0 18.0#

183 84.1 9.0 13.4#



#22

Terphenyl-d14

Concen: 1.16 ng

RT: 22.44 min Scan# 3664

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

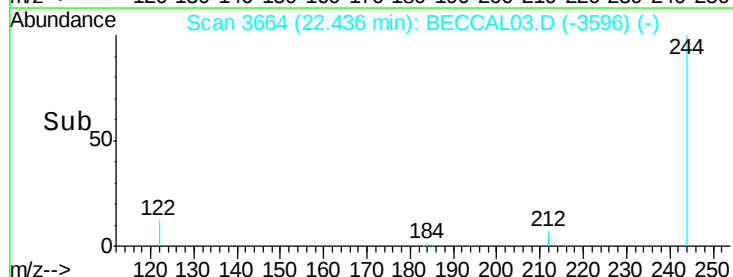
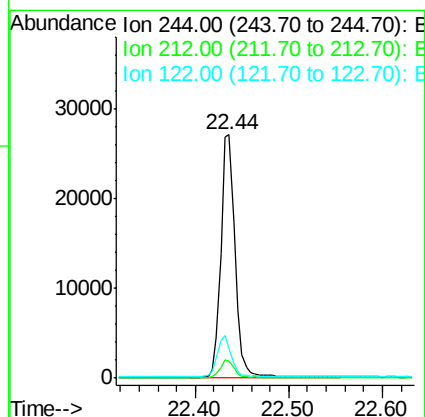
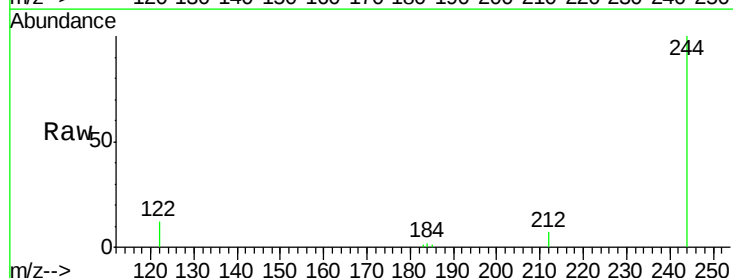
Tgt Ion:244 Resp: 28450

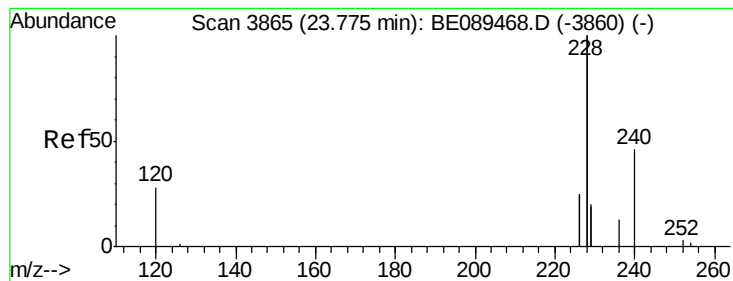
Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 12.4 12.6 19.0#





#23

Benzo(a)anthracene

Concen: 1.03 ng

RT: 23.78 min Scan# 3866

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

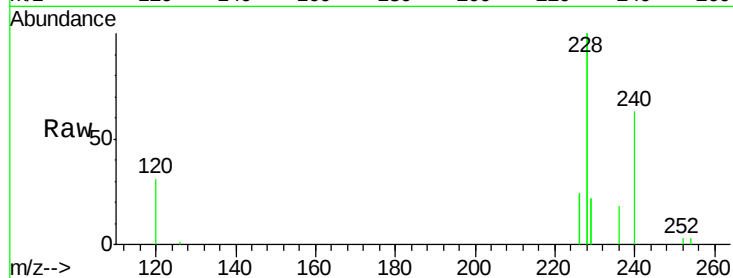
Tgt Ion:228 Resp: 158948

Ion Ratio Lower Upper

228 100

226 23.5 19.6 29.4

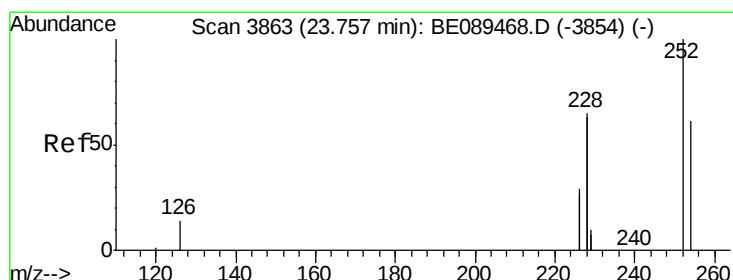
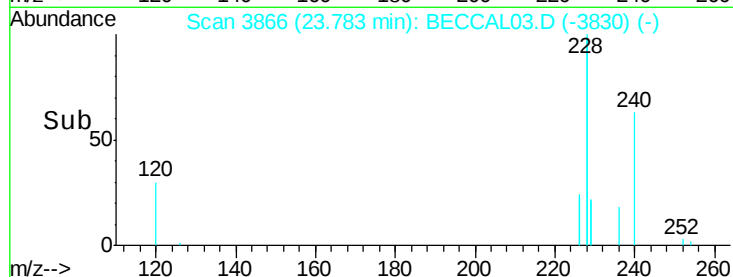
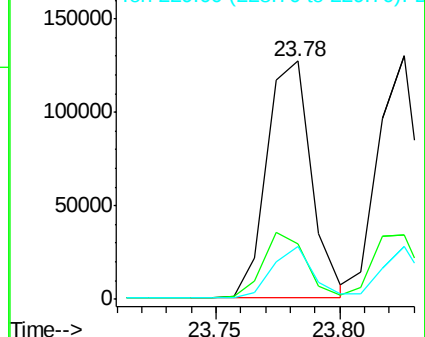
229 22.0 15.9 23.9



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: 0.83 ng

RT: 23.77 min Scan# 3865

Delta R.T. 0.02 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

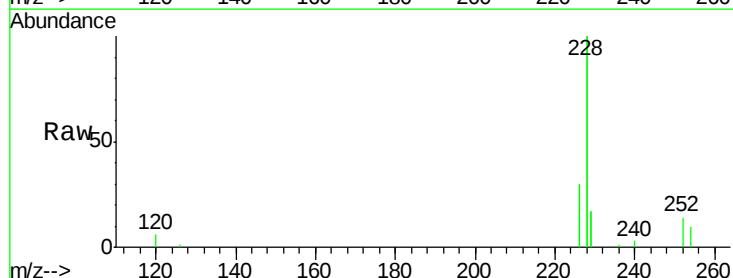
Tgt Ion:252 Resp: 10565

Ion Ratio Lower Upper

252 100

254 69.6 48.6 73.0

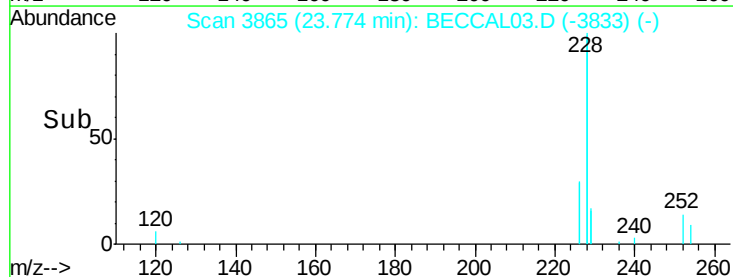
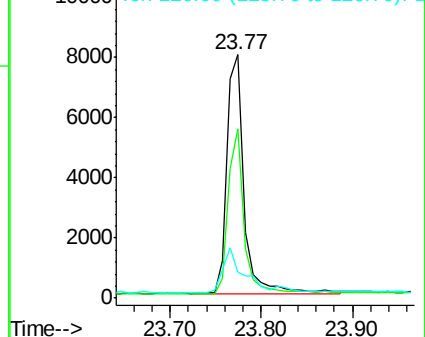
126 10.7 12.4 18.6#

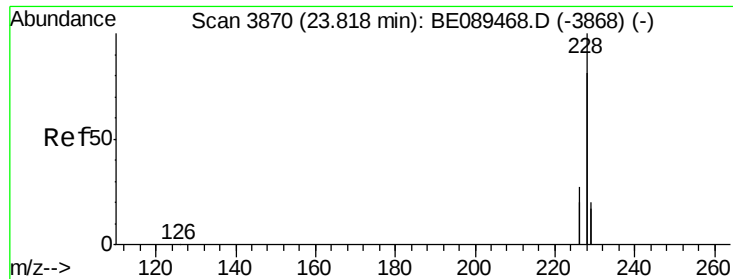


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 0.97 ng

RT: 23.83 min Scan# 3871

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

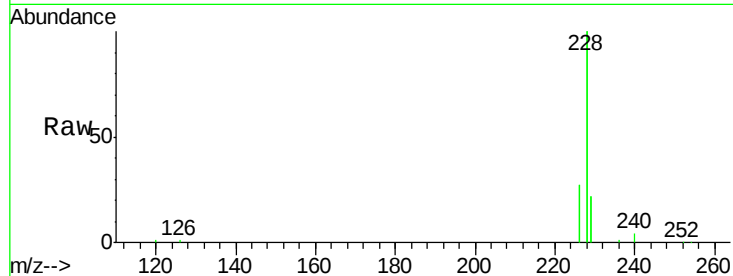
Tgt Ion:228 Resp: 155310

Ion Ratio Lower Upper

228 100

226 26.6 21.8 32.8

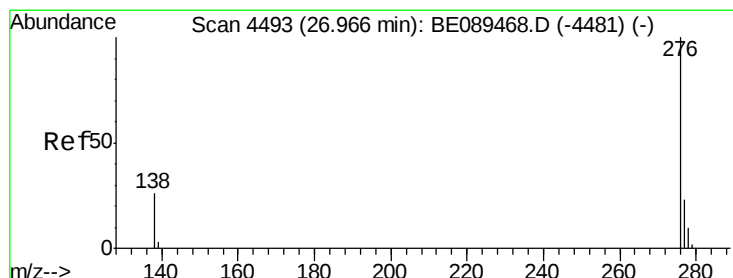
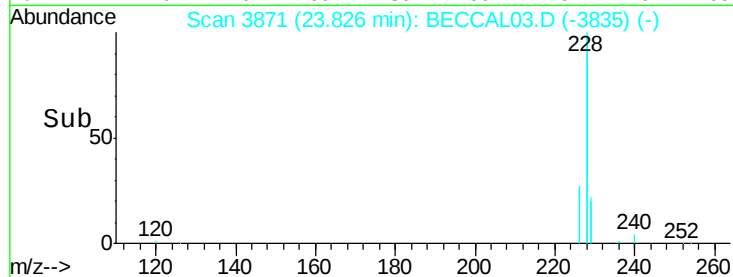
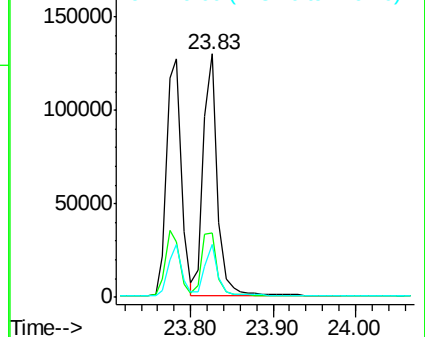
229 21.7 16.2 24.2



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: 1.10 ng

RT: 26.98 min Scan# 4496

Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

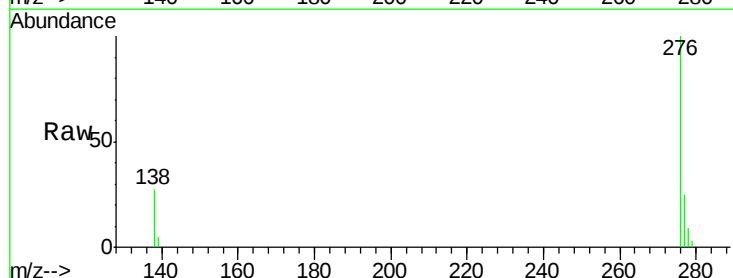
Tgt Ion:276 Resp: 44659

Ion Ratio Lower Upper

276 100

138 29.8 24.2 36.4

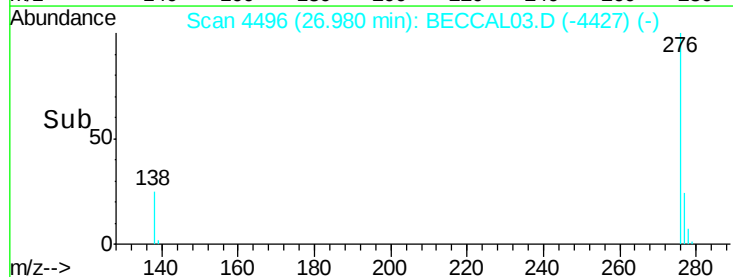
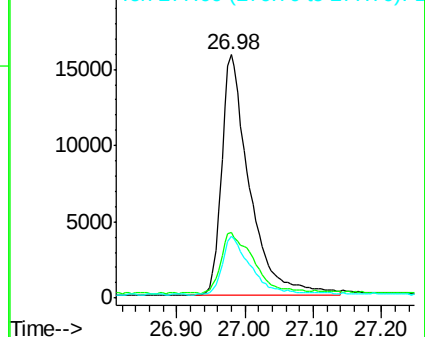
277 25.3 19.9 29.9

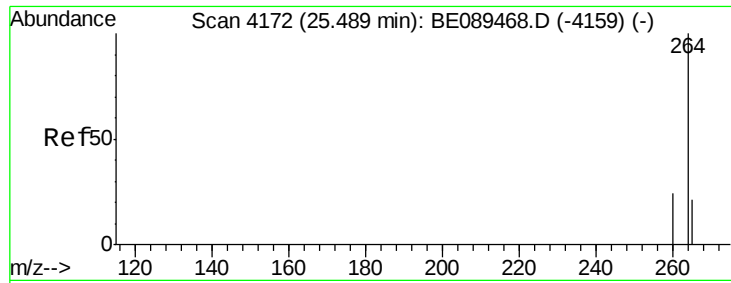


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

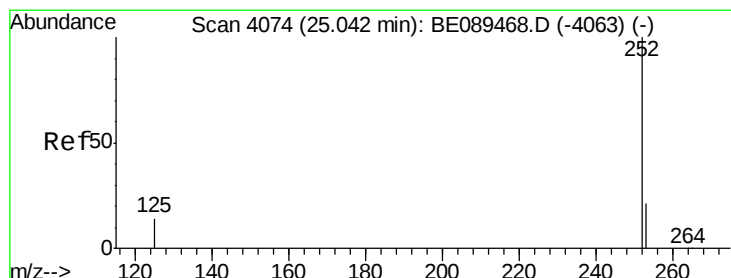
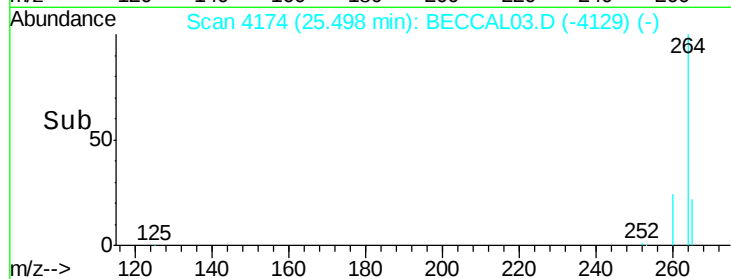
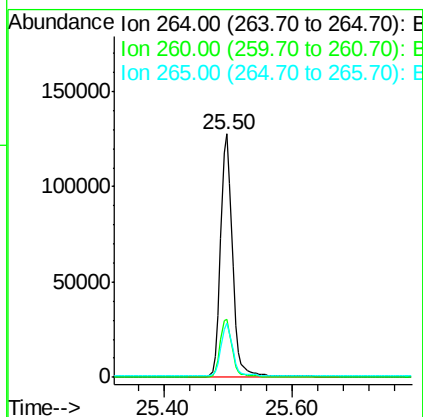
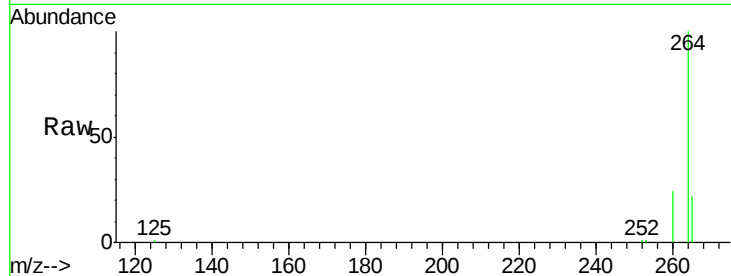




#27
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.50 min Scan# 4174
 Delta R.T. 0.01 min
 Lab File: BECCAL03.D
 Acq: 4 Feb 2015 6:39

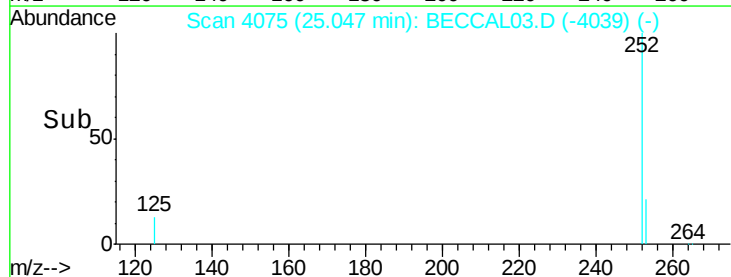
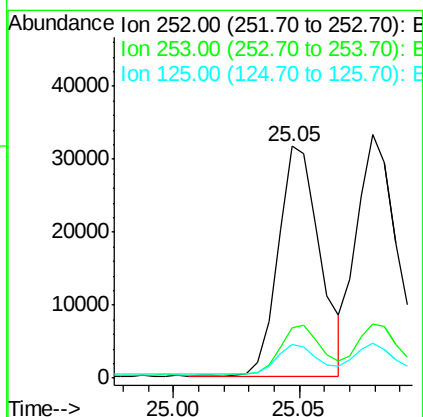
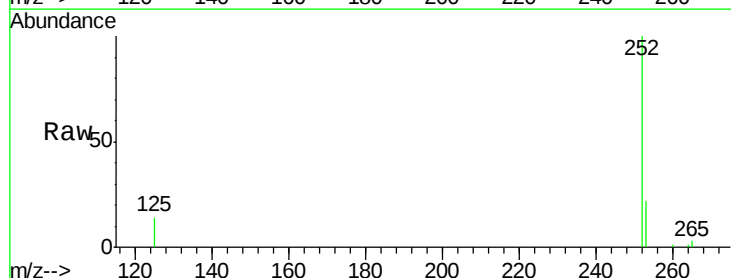
Instrument :
 BNA_E
 ClientSampleId :

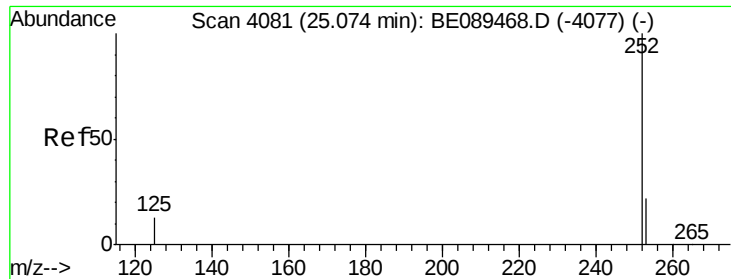
Tgt Ion:264 Resp: 163143
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.1 28.7
 265 22.2 17.0 25.6



#28
 Benzo(b)fluoranthene
 Concen: 1.13 ng
 RT: 25.05 min Scan# 4075
 Delta R.T. 0.01 min
 Lab File: BECCAL03.D
 Acq: 4 Feb 2015 6:39

Tgt Ion:252 Resp: 36102
 Ion Ratio Lower Upper
 252 100
 253 21.9 17.4 26.2
 125 14.4 11.3 16.9





#29

Benzo(k)fluoranthene

Concen: 0.97 ng

RT: 25.08 min Scan# 4082

Delta R.T. 0.00 min

Lab File: BECCAL03.D

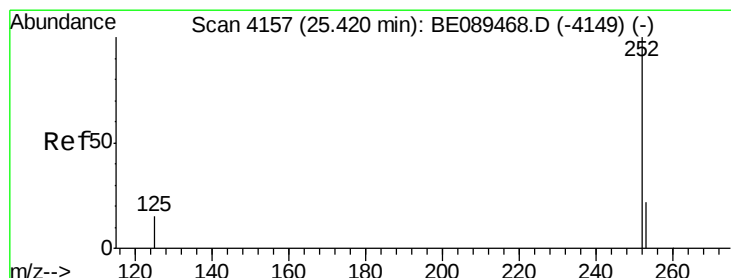
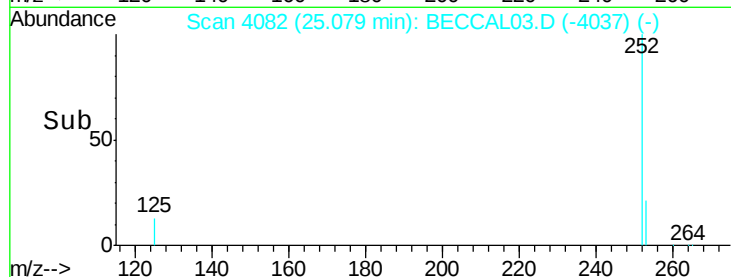
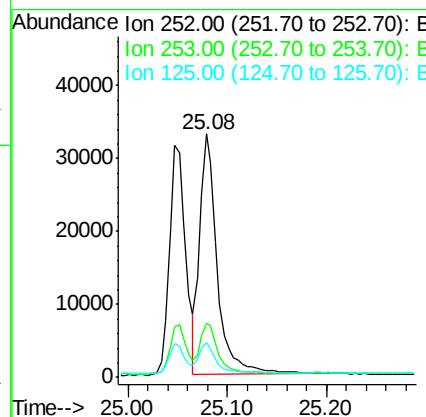
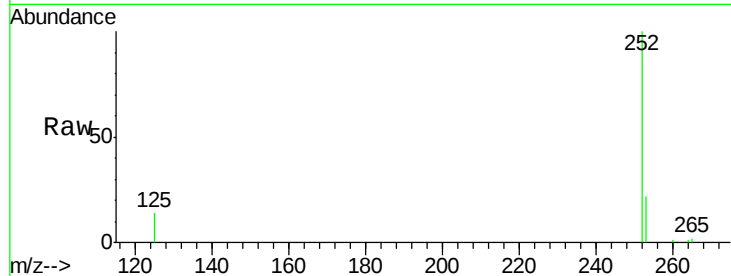
Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	40963
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	14.1	10.6	15.8



#30

Benzo(a)pyrene

Concen: 1.10 ng

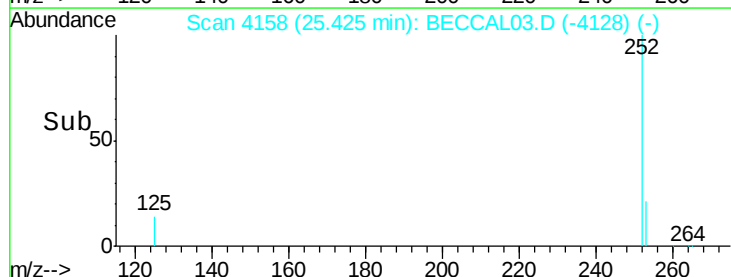
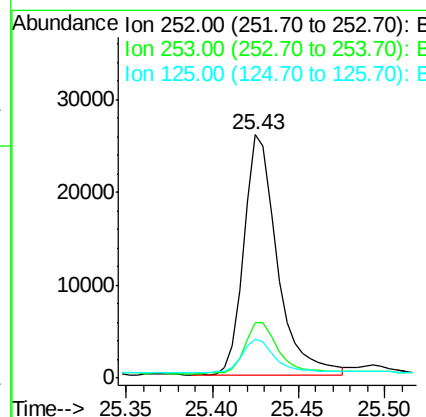
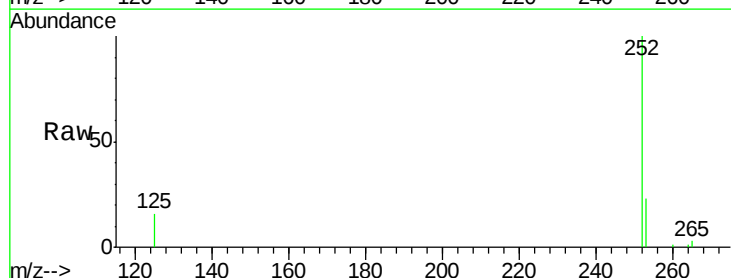
RT: 25.43 min Scan# 4158

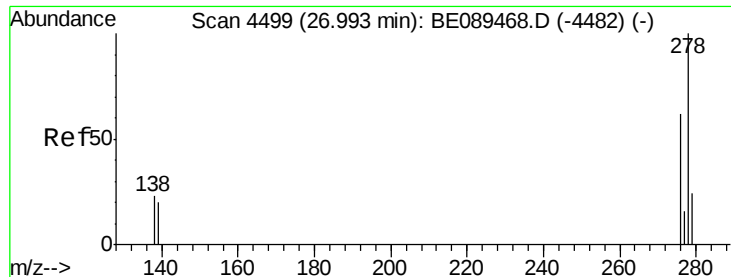
Delta R.T. 0.01 min

Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Tgt Ion:	252	Resp:	34447
Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	16.1	12.2	18.4





#31

Dibenzo(a,h)anthracene

Concen: 1.13 ng

RT: 27.01 min Scan# 4502

Delta R.T. 0.01 min

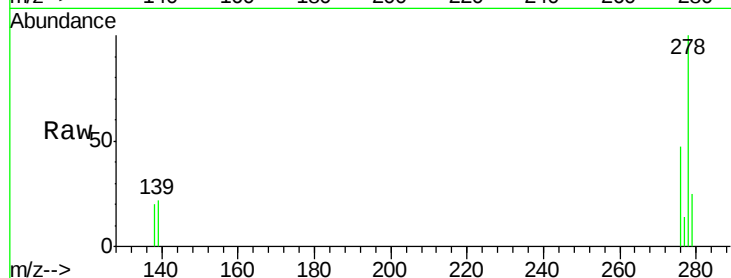
Lab File: BECCAL03.D

Acq: 4 Feb 2015 6:39

Instrument :

BNA_E

ClientSampleId :



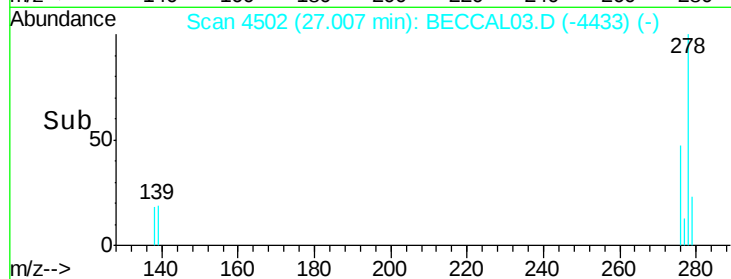
Tgt Ion: 278 Resp: 38644

Ion Ratio Lower Upper

278 100

139 21.6 16.8 25.2

279 24.9 19.4 29.0



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

