

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020415\
 Data File : BE089495.D
 Acq On : 4 Feb 2015 14:02
 Operator : TP/IZ
 Sample : PB81495BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

Quant Time: Feb 04 17:30:28 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	9.53	152	73423	5.00	ng	0.00
7) Naphthalene-d8	12.43	136	294071	5.00	ng	0.00
13) Acenaphthene-d10	16.62	164	138956	5.00	ng	0.00
17) Phenanthrene-d10	19.94	188	234210	5.00	ng	0.00
20) Chrysene-d12	23.79	240	219624	5.00	ng	0.00
27) Perylene-d12	25.50	264	211808	5.00	ng	0.00

System Monitoring Compounds						
3) 2-Fluorophenol	6.74	112	177742	7.49	ng	0.02
4) Phenol-d6	8.87	99	229461	7.70	ng	0.04
8) Nitrobenzene-d5	10.80	82	139884	6.29	ng	0.01
14) 2,4,6-Tribromophenol	18.53	330	38926	6.53	ng	0.02
15) 2-Fluorobiphenyl	15.07	172	205903	5.62	ng	0.00
22) Terphenyl-d14	22.43	244	206399	6.63	ng	0.00

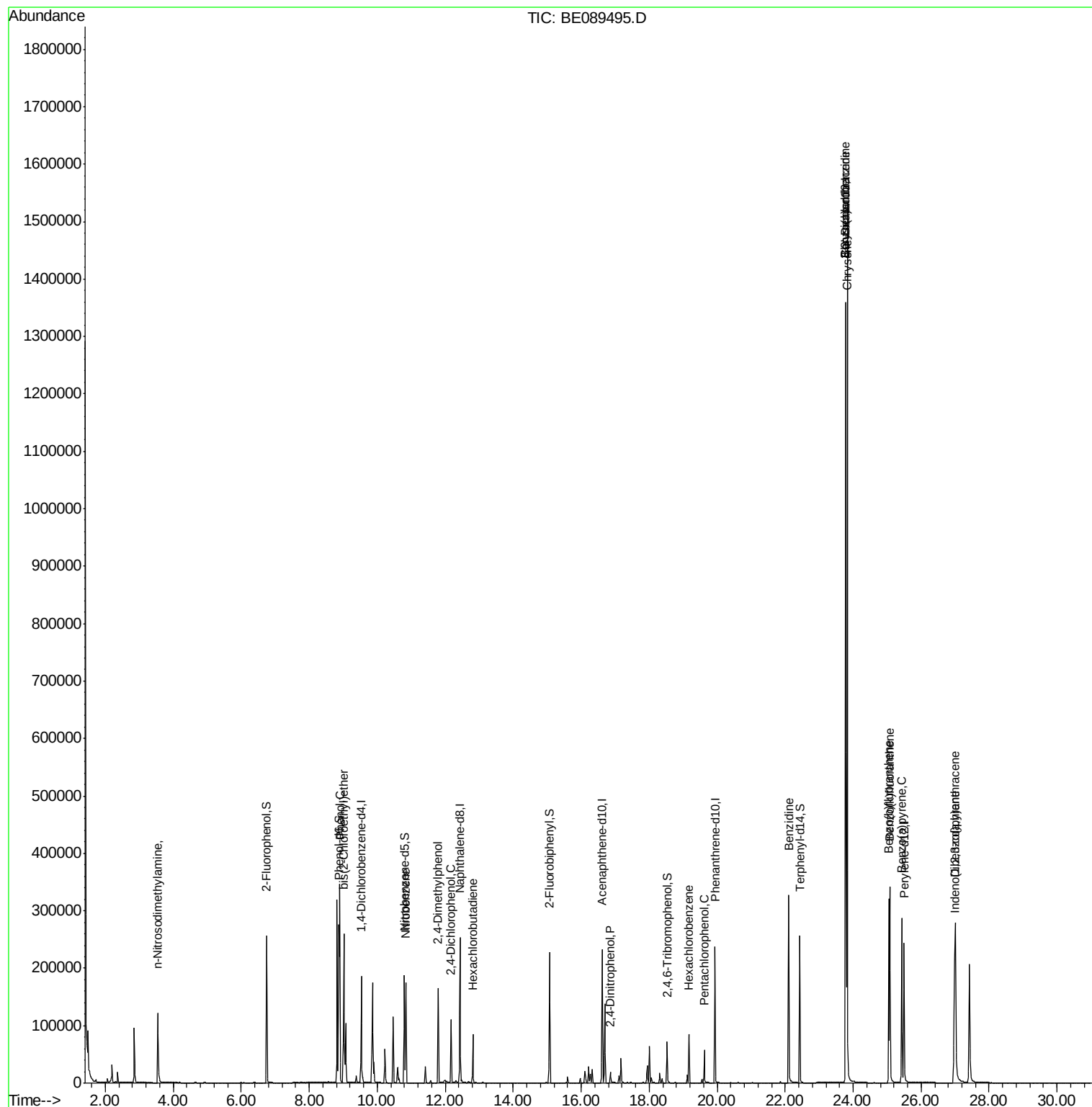
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.53	42	80046	5.39	ng	# 95
5) Phenol	8.90	94	154869	4.75	ng	# 35
6) bis(2-Chloroethyl)ether	9.01	93	131319	5.57	ng	# 100
9) Nitrobenzene	10.84	77	149955	5.89	ng	99
10) 2,4-Dimethylphenol	11.80	122	86603	4.71	ng	93
11) 2,4-Dichlorophenol	12.17	162	78056	5.74	ng	99
12) Hexachlorobutadiene	12.81	225	49088	5.40	ng	99
16) 2,4-Dinitrophenol	16.86	184	13386	6.90	ng	# 67
18) Hexachlorobenzene	19.18	284	68646	5.66	ng	99
19) Pentachlorophenol	19.62	266	32230	7.98	ng	99
21) Benzidine	22.10	184	303131	27.64	ng	99
23) Benzo(a)anthracene	23.78	228	1127163	5.78	ng	97
24) 3,3'-Dichlorobenzidine	23.77	252	110783	6.05	ng	# 97
25) Chrysene	23.83	228	1124460	5.53	ng	98
26) Indeno(1,2,3-cd)pyrene	26.98	276	335913	5.88	ng	99
28) Benzo(b)fluoranthene	25.05	252	268781	5.60	ng	97
29) Benzo(k)fluoranthene	25.08	252	303348	5.52	ng	98
30) Benzo(a)pyrene	25.43	252	267507	5.70	ng	97
31) Dibenzo(a,h)anthracene	27.01	278	297521	5.97	ng	97

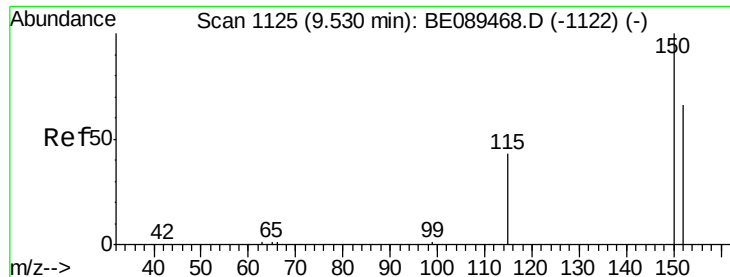
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 04 17:30:28 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.53 min Scan# 1125

Delta R.T. -0.00 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

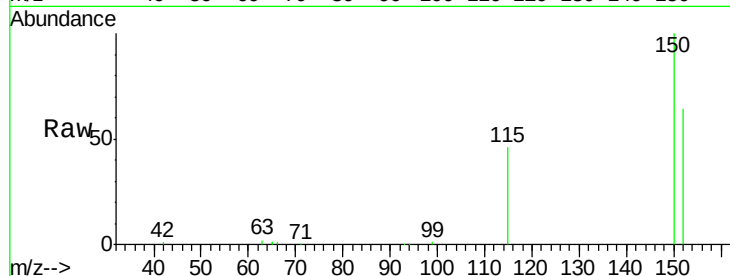
Tgt Ion:152 Resp: 73423

Ion Ratio Lower Upper

152 100

150 157.4 122.1 183.1

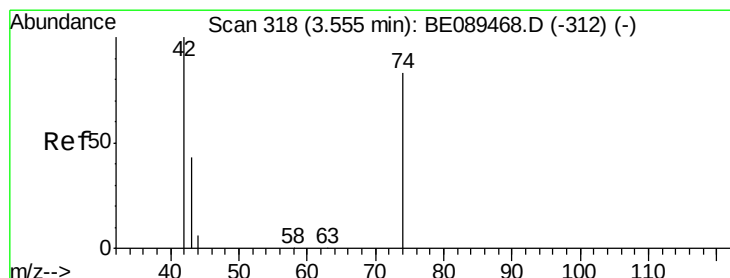
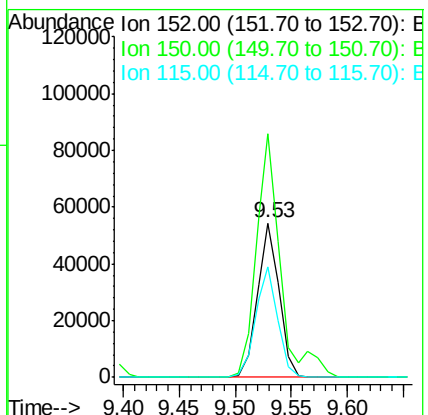
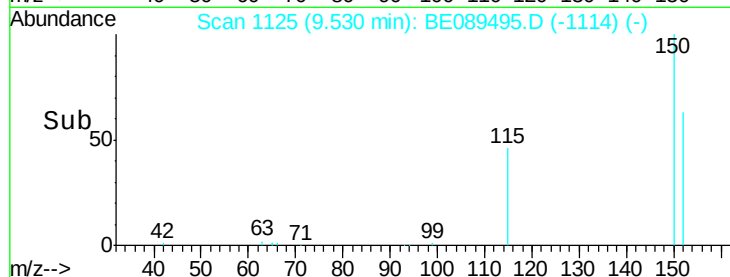
115 71.8 53.2 79.8



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: 5.39 ng

RT: 3.53 min Scan# 315

Delta R.T. -0.02 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

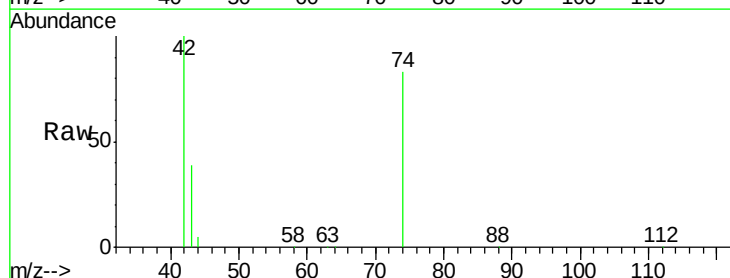
Tgt Ion: 42 Resp: 80046

Ion Ratio Lower Upper

42 100

74 83.0 65.4 98.2

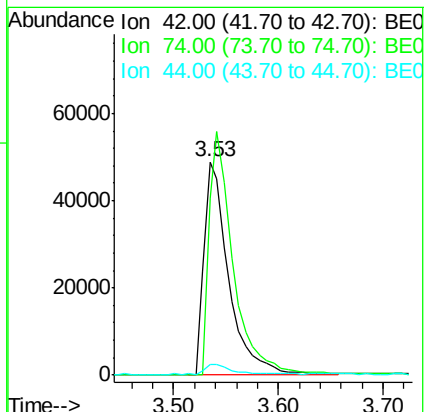
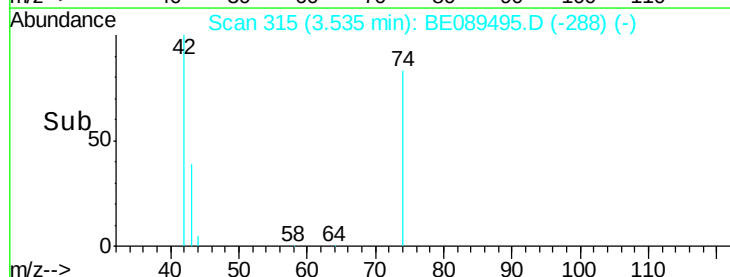
44 5.0 11.7 17.5#

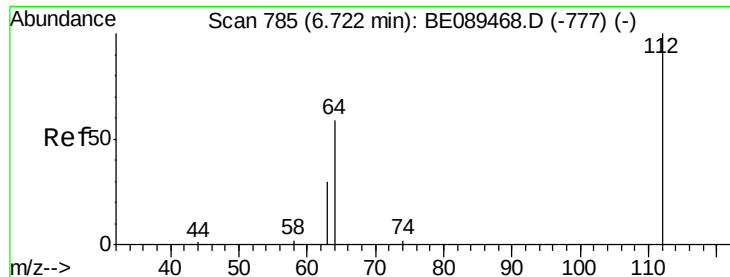


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 7.49 ng

RT: 6.74 min Scan# 788

Delta R.T. 0.02 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

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PB81495BSD

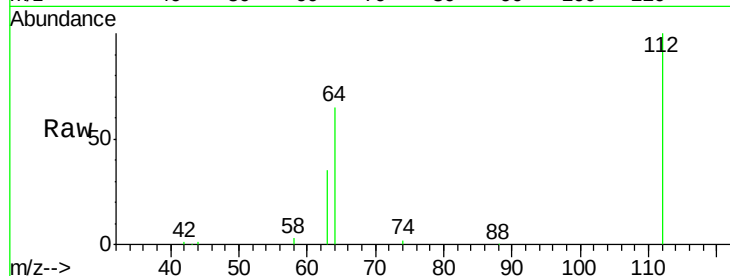
Tgt Ion: 112 Resp: 177742

Ion Ratio Lower Upper

112 100

64 65.0 47.0 70.6

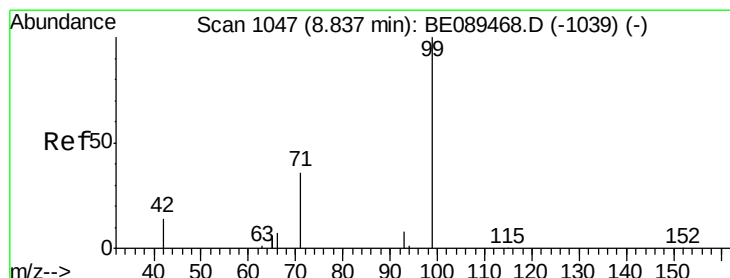
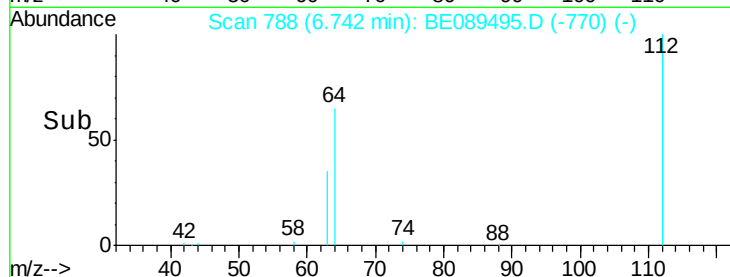
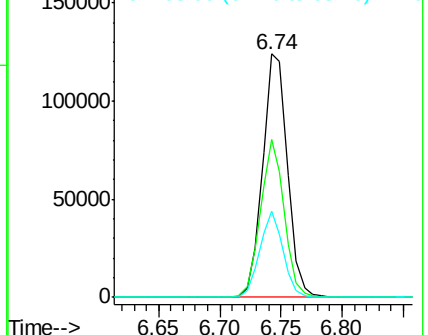
63 35.2 24.2 36.2



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#4

Phenol-d6

Concen: 7.70 ng

RT: 8.87 min Scan# 1051

Delta R.T. 0.04 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

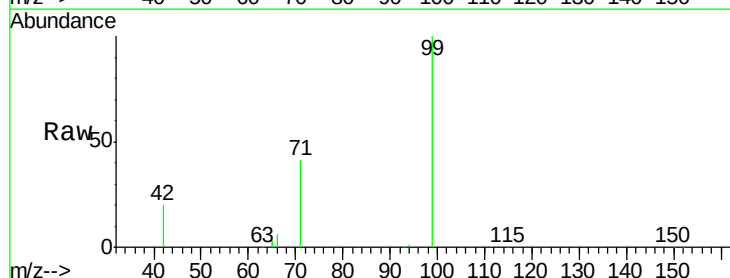
Tgt Ion: 99 Resp: 229461

Ion Ratio Lower Upper

99 100

42 19.8 11.8 17.6#

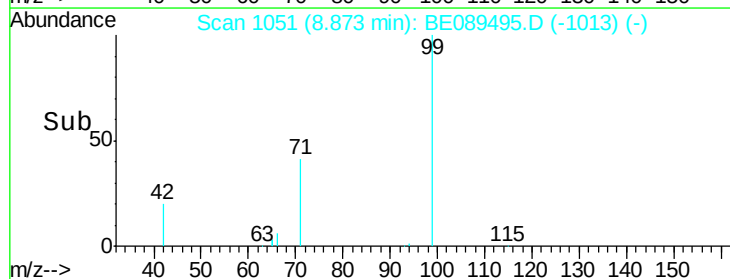
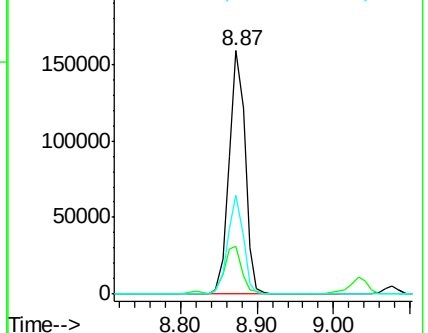
71 40.7 28.7 43.1

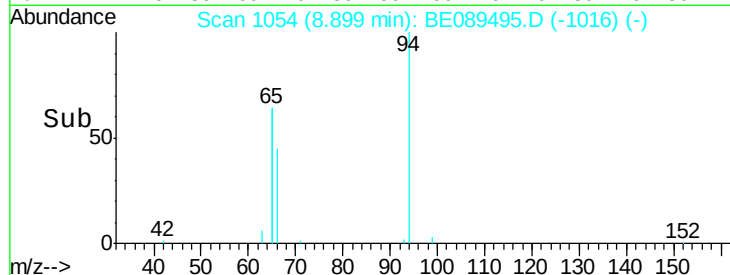
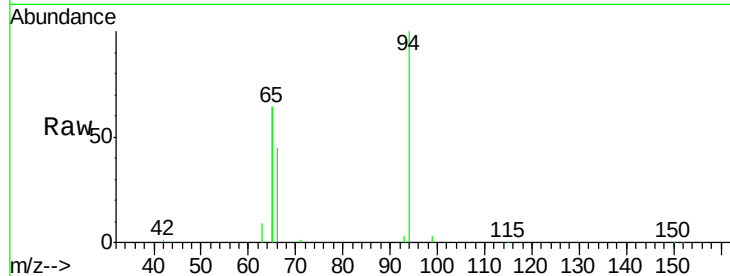
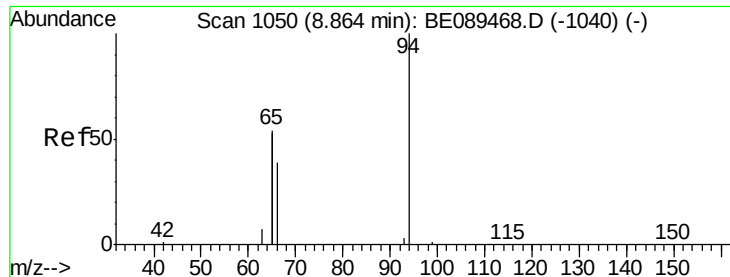


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 4.75 ng

RT: 8.90 min Scan# 1054

Delta R.T. 0.04 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

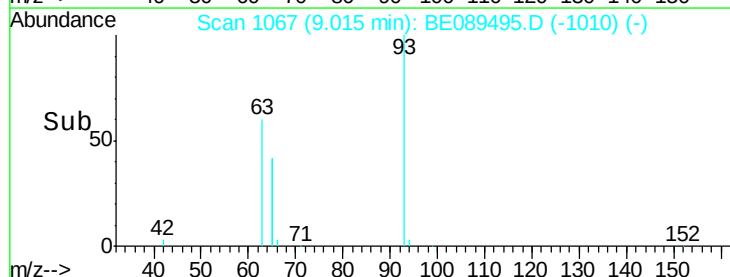
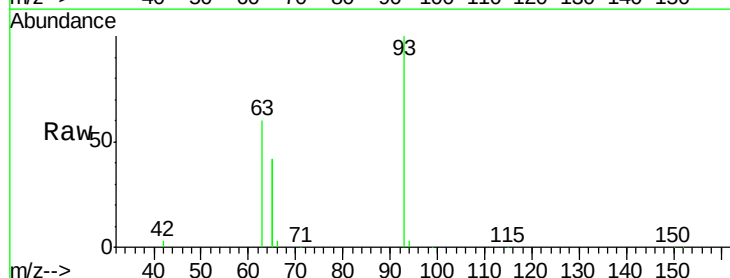
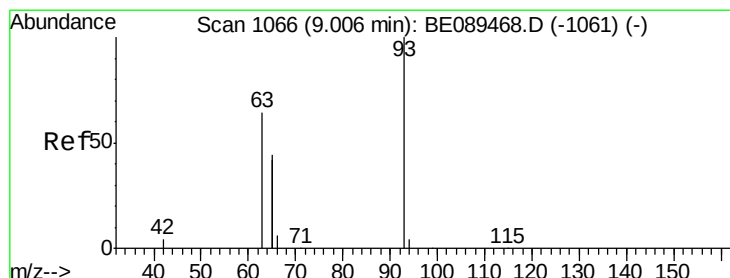
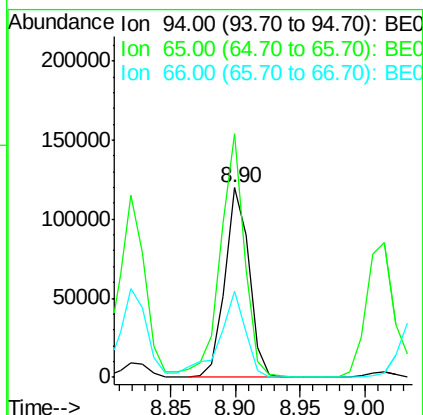
Tgt Ion: 94 Resp: 154869

Ion Ratio Lower Upper

94 100

65 128.6 33.9 73.9#

66 45.2 19.1 59.1



#6

bis(2-Chloroethyl)ether

Concen: 5.57 ng

RT: 9.01 min Scan# 1067

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

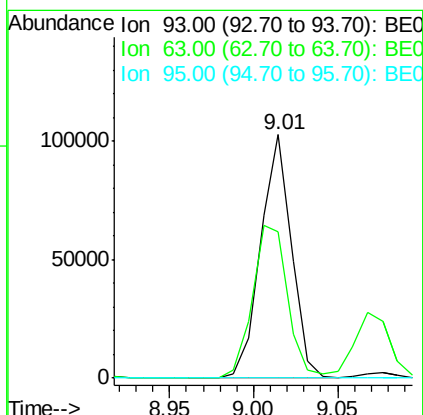
Tgt Ion: 93 Resp: 131319

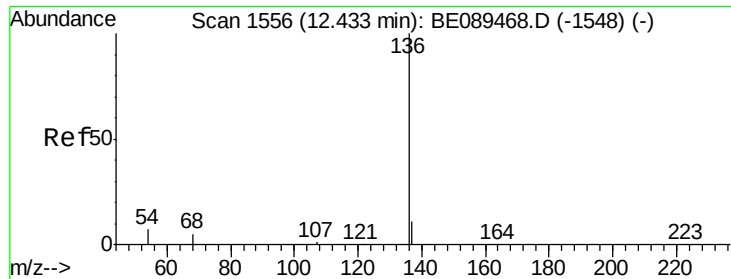
Ion Ratio Lower Upper

93 100

63 71.5 57.0 85.6

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.43 min Scan# 1556

Delta R.T. -0.00 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

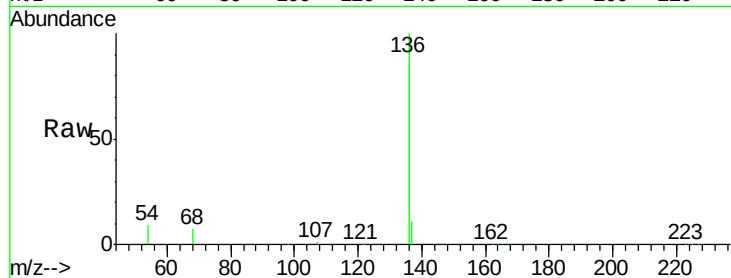
Tgt Ion: 136 Resp: 294071

Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

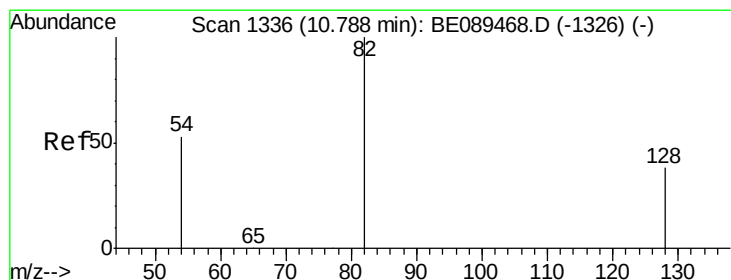
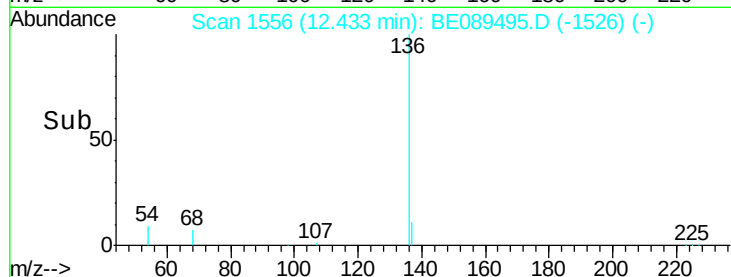
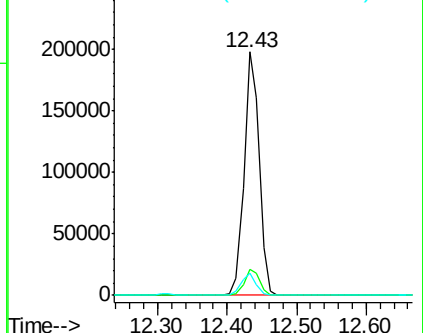
54 9.3 5.4 8.0#



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: 6.29 ng

RT: 10.80 min Scan# 1339

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

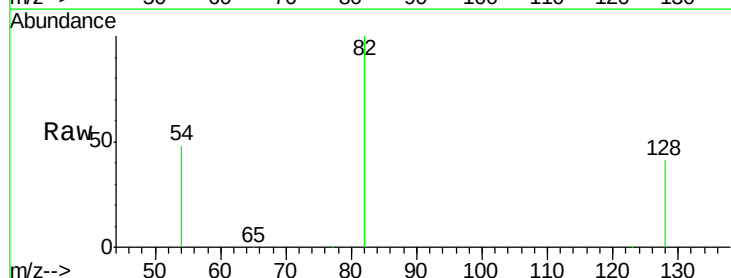
Tgt Ion: 82 Resp: 139884

Ion Ratio Lower Upper

82 100

128 40.8 30.3 45.5

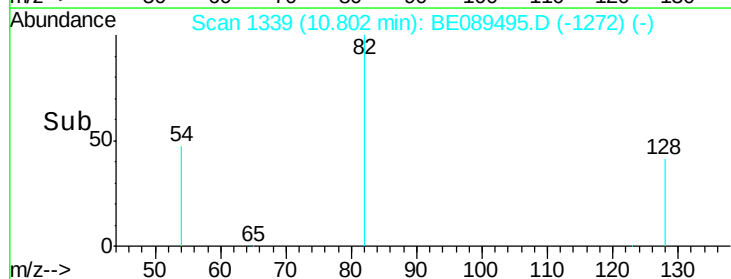
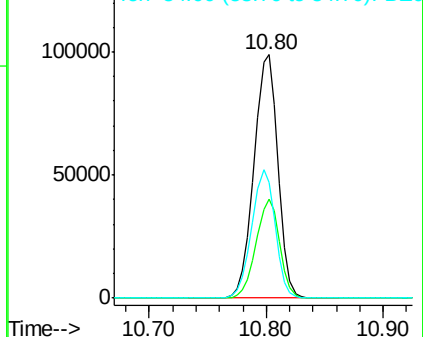
54 47.7 43.1 64.7

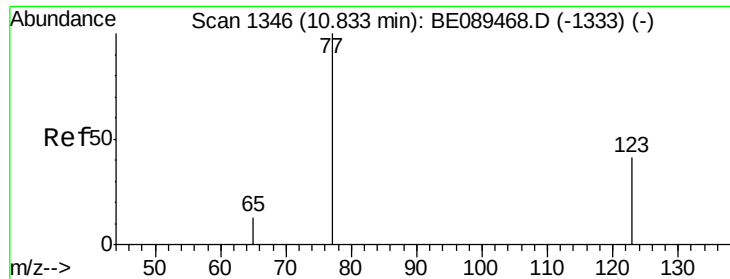


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 5.89 ng

RT: 10.84 min Scan# 1348

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

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ClientSampleId :

PB81495BSD

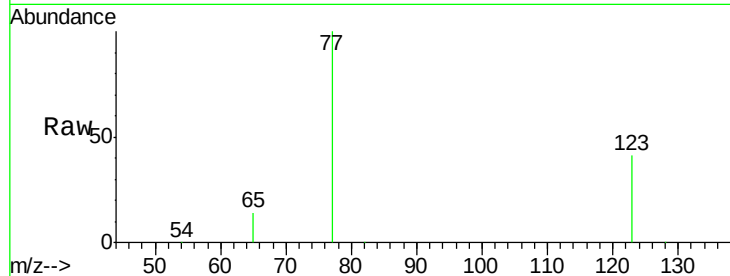
Tgt Ion: 77 Resp: 149955

Ion Ratio Lower Upper

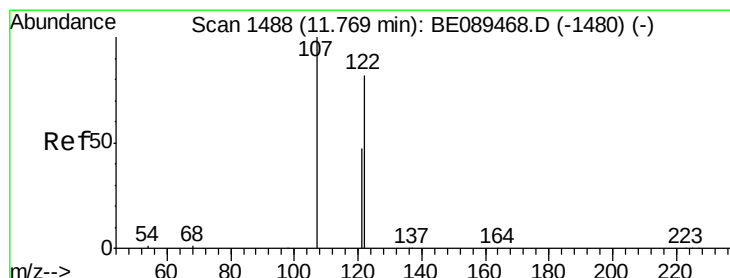
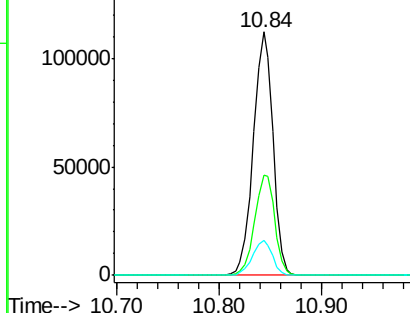
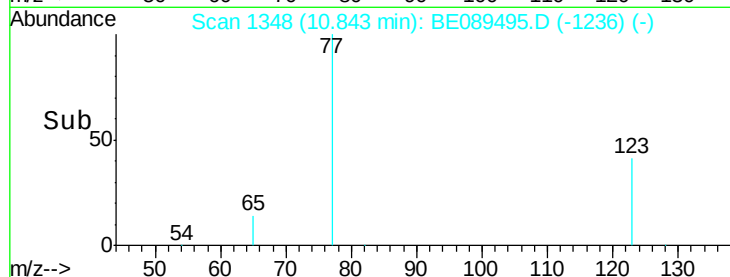
77 100

123 42.1 33.4 50.0

65 14.4 10.9 16.3



Abundance Ion 77.00 (76.70 to 77.70): BE0
Ion 123.00 (122.70 to 123.70): BE0
Ion 65.00 (64.70 to 65.70): BE0



#10

2,4-Dimethylphenol

Concen: 4.71 ng

RT: 11.80 min Scan# 1491

Delta R.T. 0.03 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

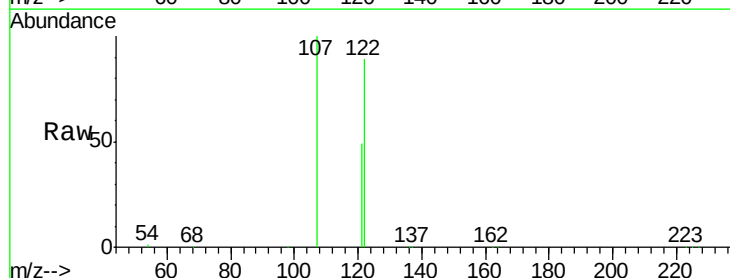
Tgt Ion: 122 Resp: 86603

Ion Ratio Lower Upper

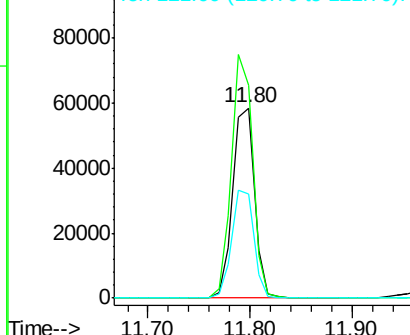
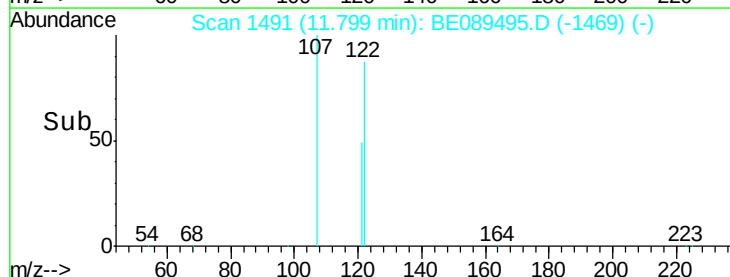
122 100

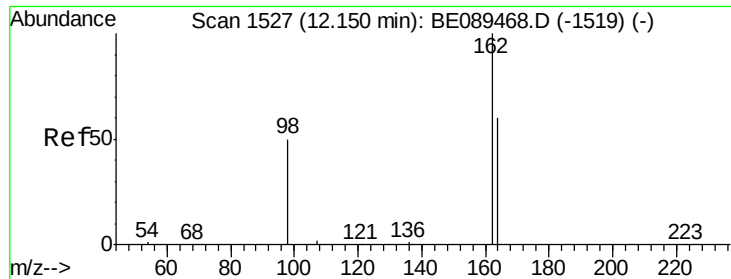
107 112.0 97.3 145.9

121 54.5 46.4 69.6



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E

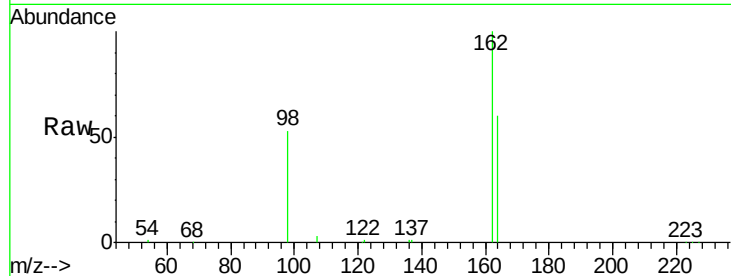




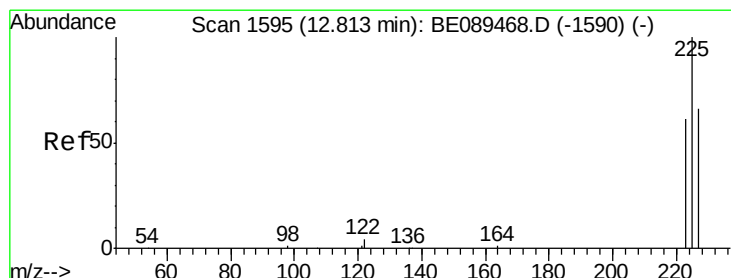
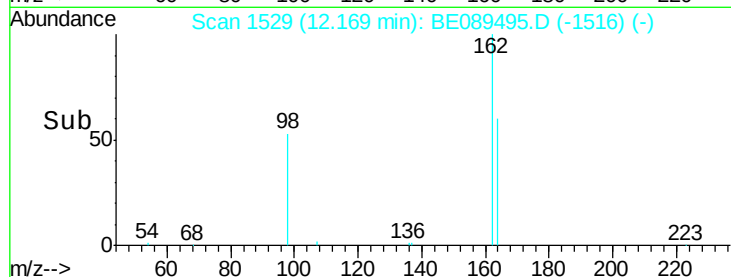
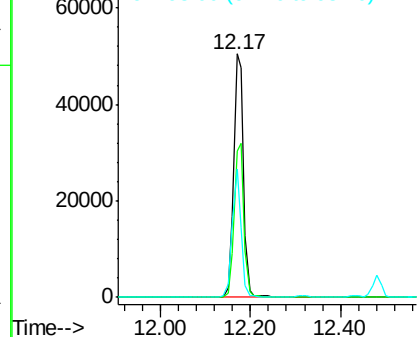
#11
 2,4-Dichlorophenol
 Concen: 5.74 ng
 RT: 12.17 min Scan# 1529
 Delta R.T. 0.02 min
 Lab File: BE089495.D
 Acq: 4 Feb 2015 14:02

Instrument :
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 PB81495BSD

Tgt Ion:162 Resp: 78056
 Ion Ratio Lower Upper
 162 100
 164 60.2 39.9 79.9
 98 53.0 31.3 71.3

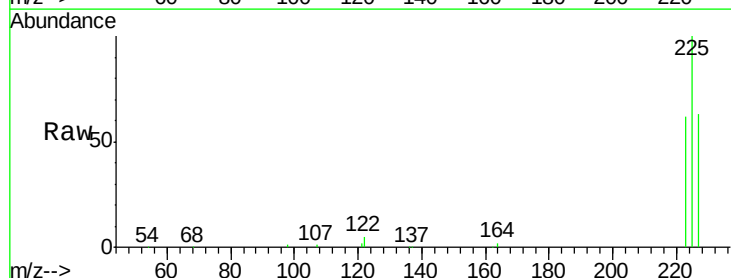


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): E

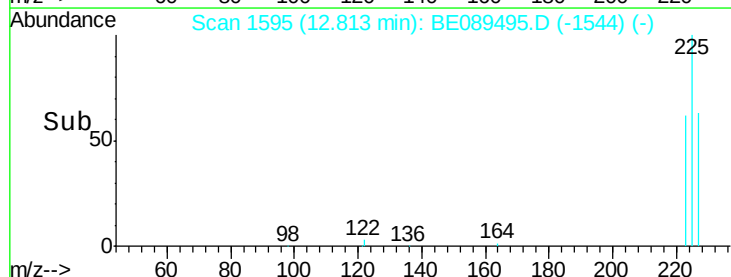
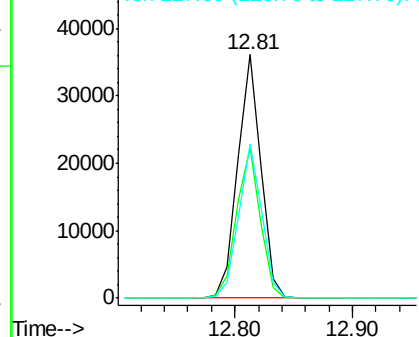


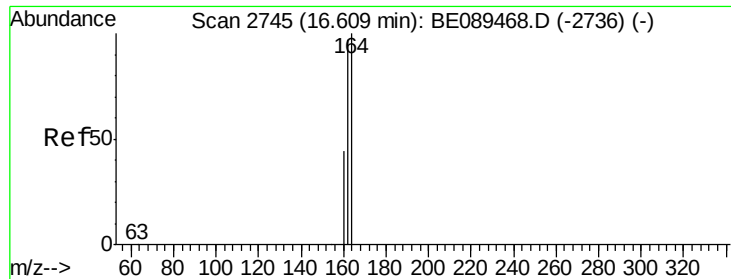
#12
 Hexachlorobutadiene
 Concen: 5.40 ng
 RT: 12.81 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: BE089495.D
 Acq: 4 Feb 2015 14:02

Tgt Ion:225 Resp: 49088
 Ion Ratio Lower Upper
 225 100
 223 62.6 49.4 74.0
 227 63.0 51.2 76.8



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: 16.62 min Scan# 2746

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

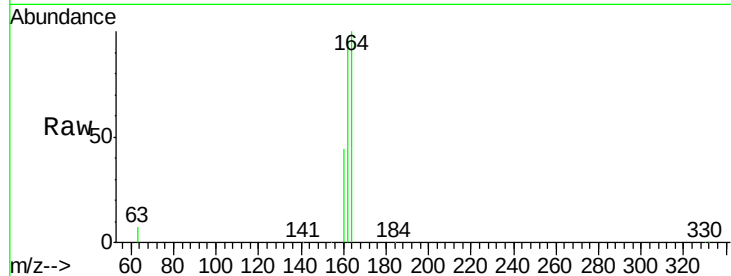
Tgt Ion:164 Resp: 138956

Ion Ratio Lower Upper

164 100

162 96.5 77.6 116.4

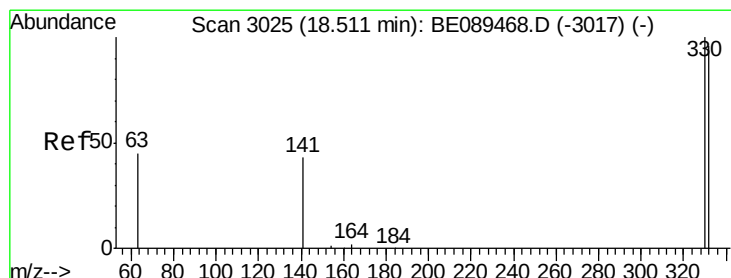
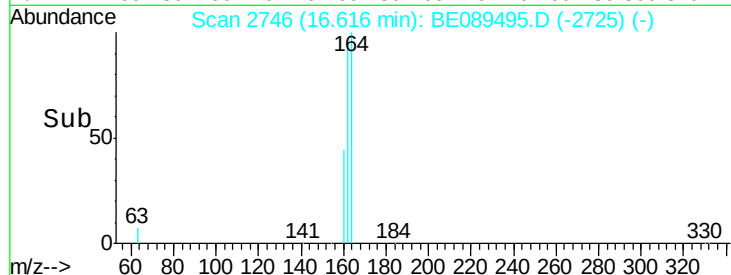
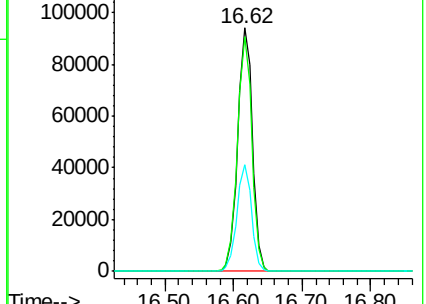
160 43.7 35.6 53.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 6.53 ng

RT: 18.53 min Scan# 3028

Delta R.T. 0.02 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

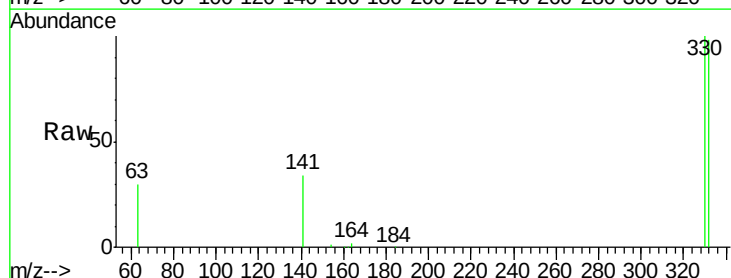
Tgt Ion:330 Resp: 38926

Ion Ratio Lower Upper

330 100

332 95.8 78.0 117.0

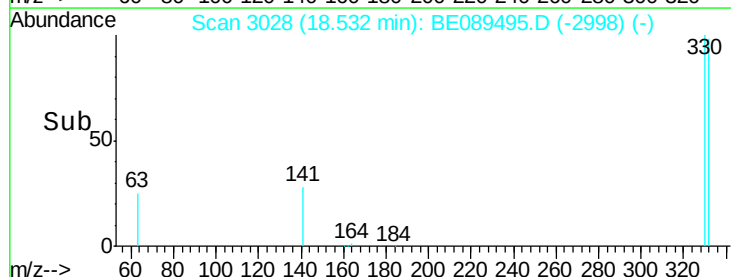
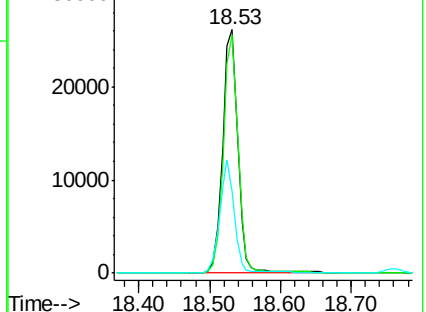
141 44.5 33.8 50.6

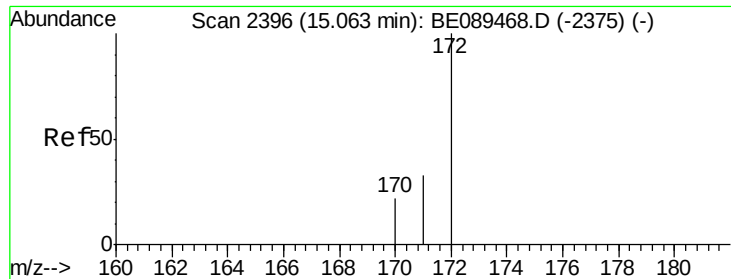


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

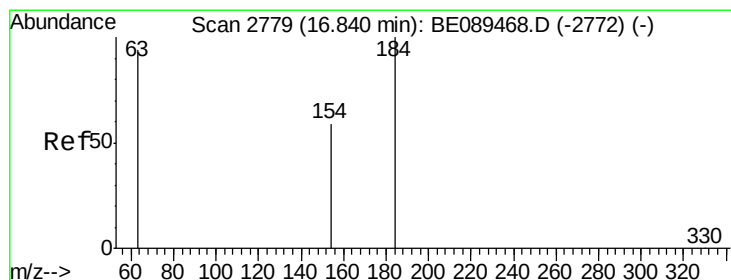
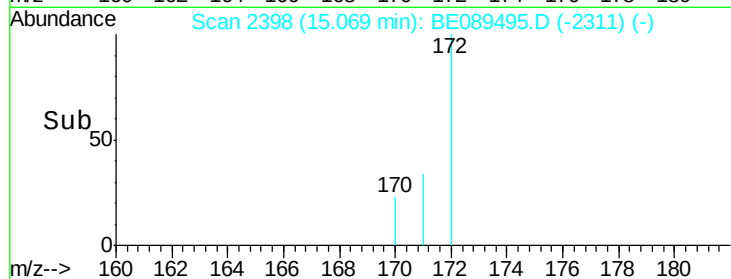
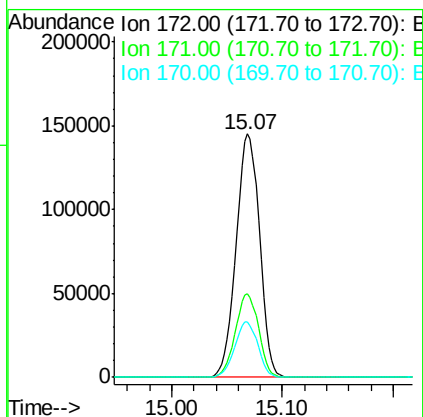
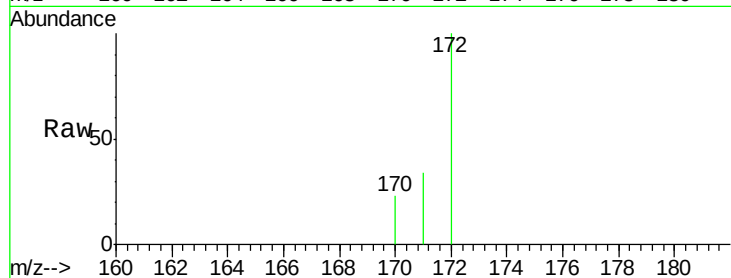




#15
2-Fluorobiphenyl
Concen: 5.62 ng
RT: 15.07 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BE089495.D
Acq: 4 Feb 2015 14:02

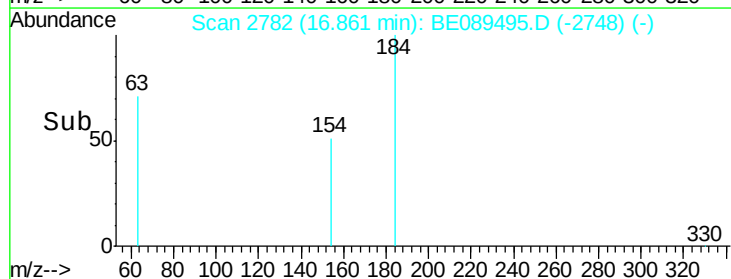
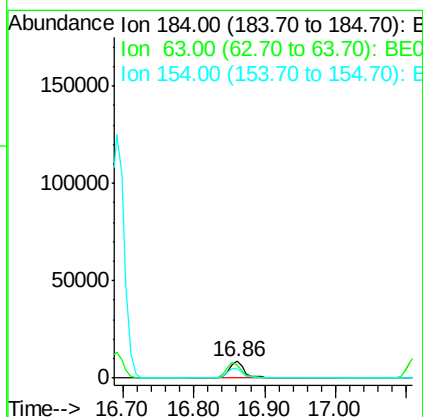
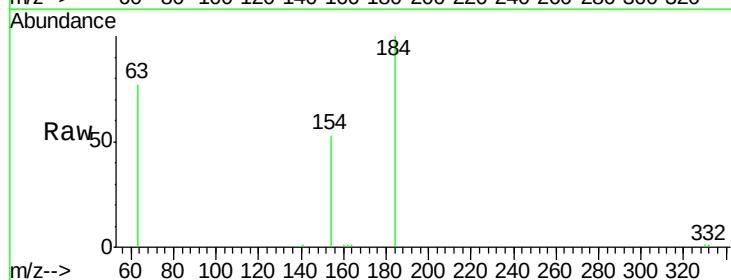
Instrument :
BNA_E
ClientSampleId :
PB81495BSD

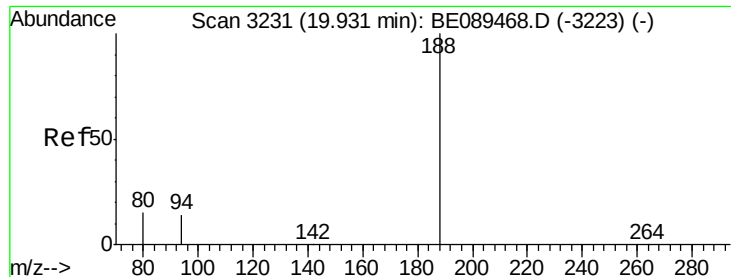
Tgt Ion:172 Resp: 205903
Ion Ratio Lower Upper
172 100
171 34.3 26.8 40.2
170 22.7 17.7 26.5



#16
2,4-Dinitrophenol
Concen: 6.90 ng
RT: 16.86 min Scan# 2782
Delta R.T. 0.02 min
Lab File: BE089495.D
Acq: 4 Feb 2015 14:02

Tgt Ion:184 Resp: 13386
Ion Ratio Lower Upper
184 100
63 76.6 92.1 138.1#
154 52.6 61.4 92.2#

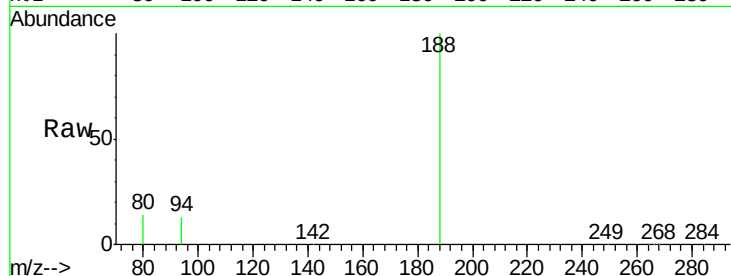




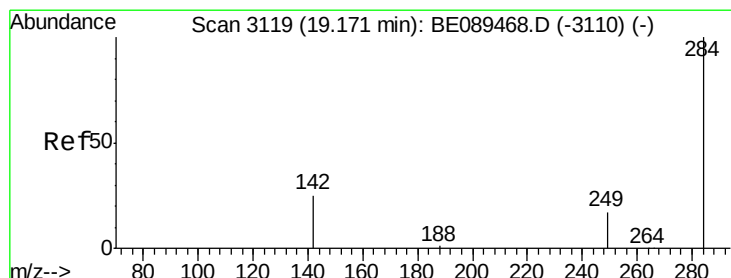
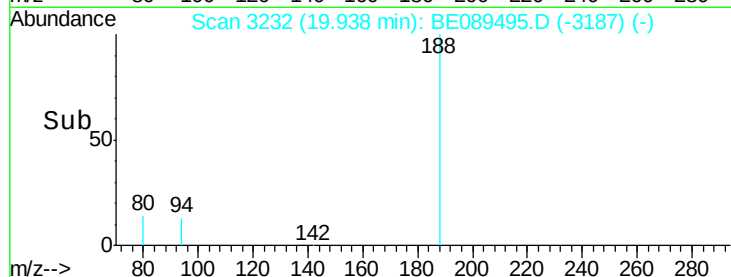
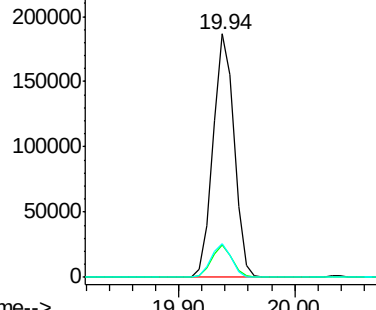
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.94 min Scan# 3232
Delta R.T. 0.01 min
Lab File: BE089495.D
Acq: 4 Feb 2015 14:02

Instrument :
BNA_E
ClientSampleId :
PB81495BSD

Tgt Ion:188 Resp: 234210
Ion Ratio Lower Upper
188 100
94 13.1 11.1 16.7
80 14.0 11.8 17.6

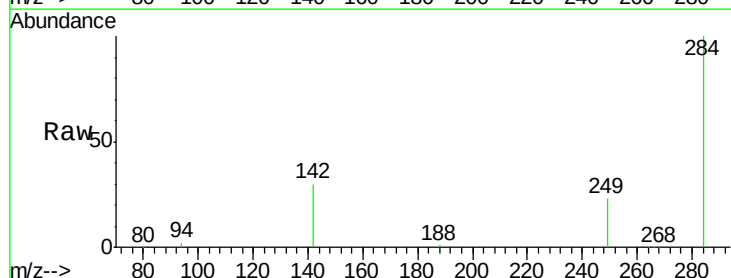


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

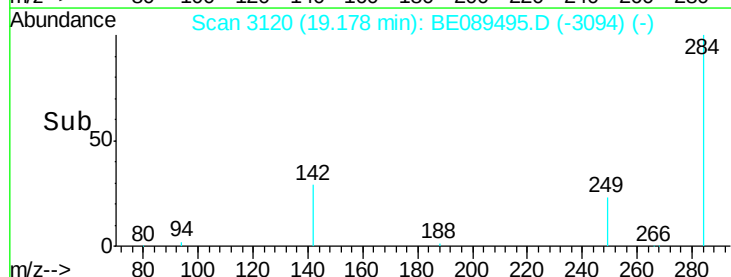
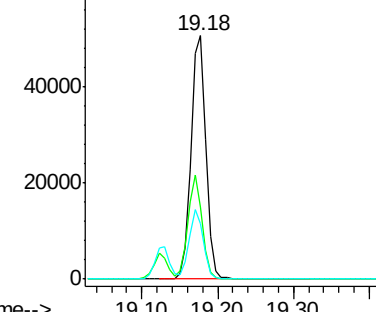


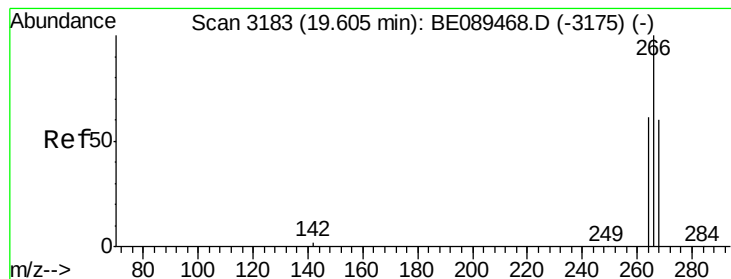
#18
Hexachlorobenzene
Concen: 5.66 ng
RT: 19.18 min Scan# 3120
Delta R.T. 0.01 min
Lab File: BE089495.D
Acq: 4 Feb 2015 14:02

Tgt Ion:284 Resp: 68646
Ion Ratio Lower Upper
284 100
142 29.6 24.4 36.6
249 22.8 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: 7.98 ng

RT: 19.62 min Scan# 3185

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

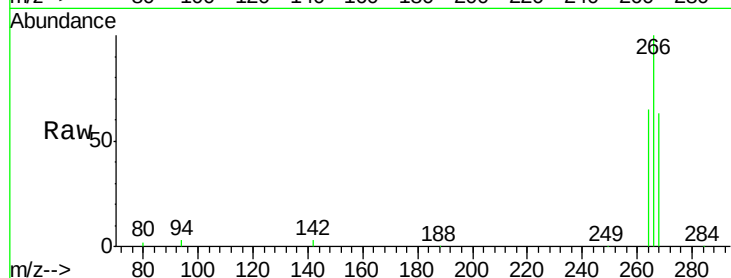
Tgt Ion:266 Resp: 32230

Ion Ratio Lower Upper

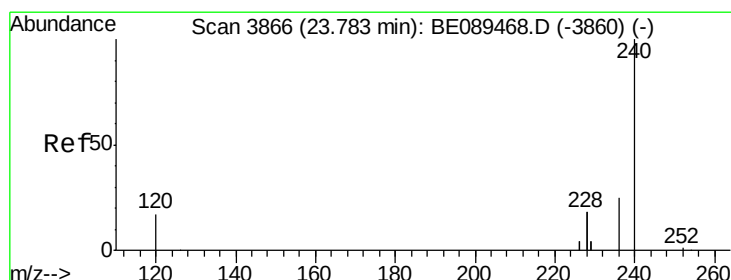
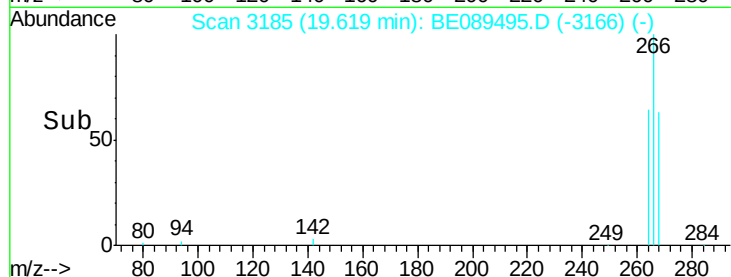
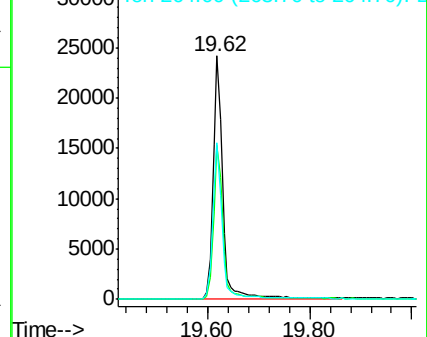
266 100

268 63.2 50.0 75.0

264 64.5 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: BE089495.D

Acq: 4 Feb 2015 14:02

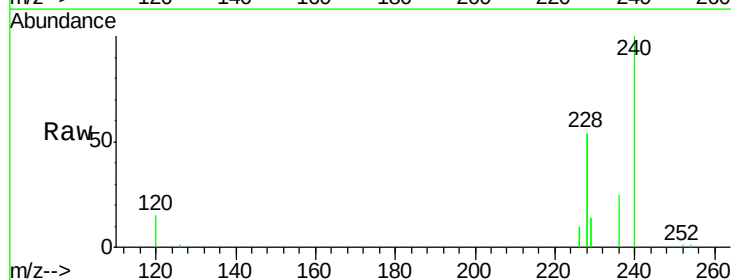
Tgt Ion:240 Resp: 219624

Ion Ratio Lower Upper

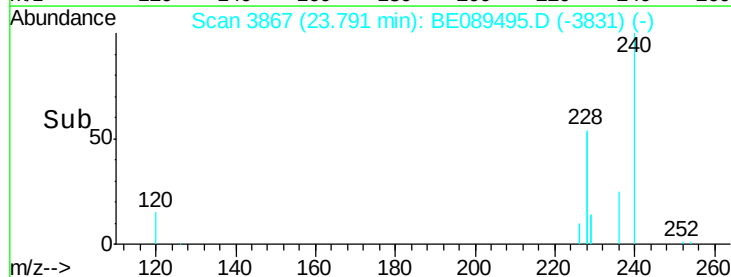
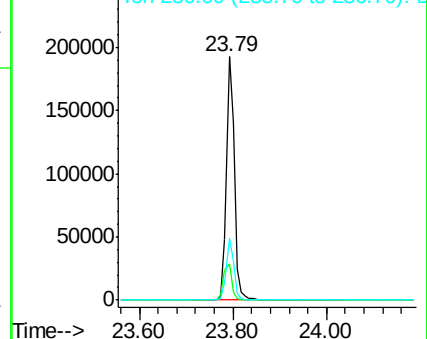
240 100

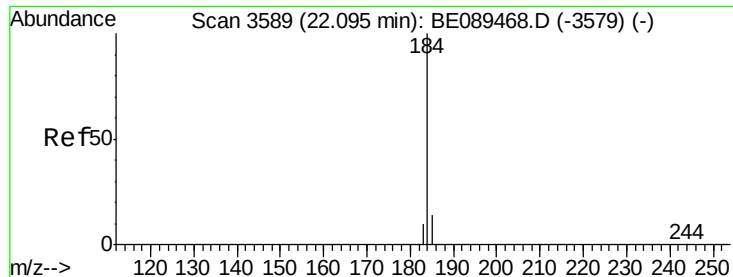
120 14.7 13.8 20.6

236 25.3 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: 27.64 ng

RT: 22.10 min Scan# 3591

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

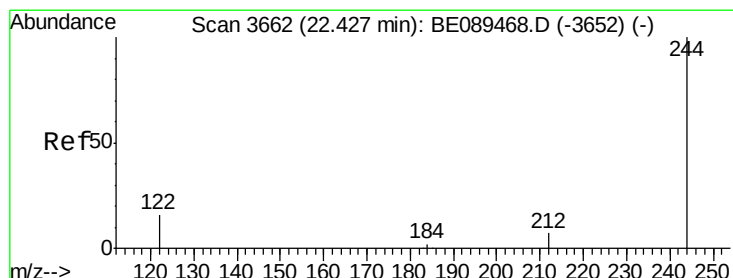
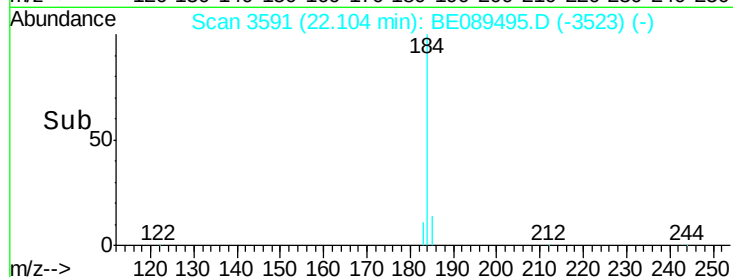
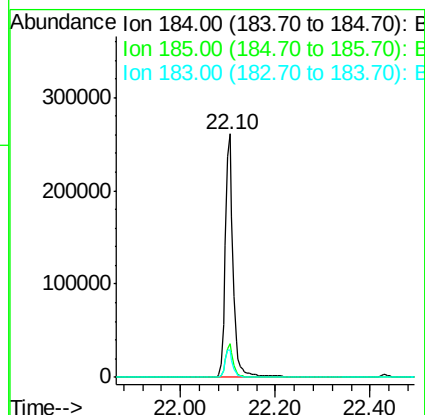
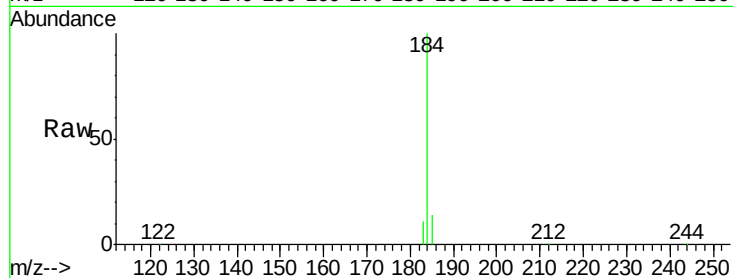
Tgt Ion:184 Resp: 303131

Ion Ratio Lower Upper

184 100

185 14.1 12.0 18.0

183 11.3 9.0 13.4



#22

Terphenyl-d14

Concen: 6.63 ng

RT: 22.43 min Scan# 3663

Delta R.T. 0.00 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

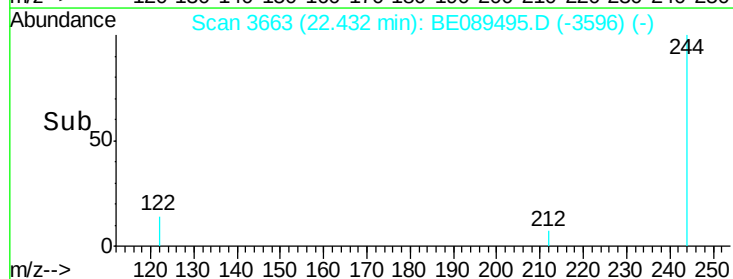
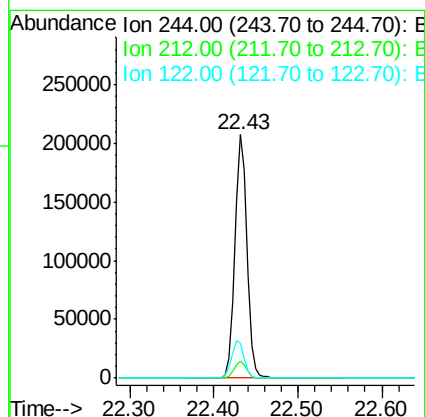
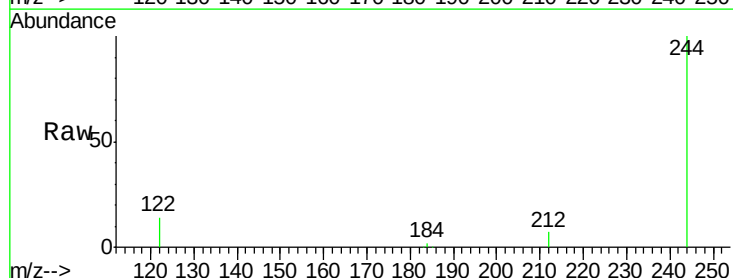
Tgt Ion:244 Resp: 206399

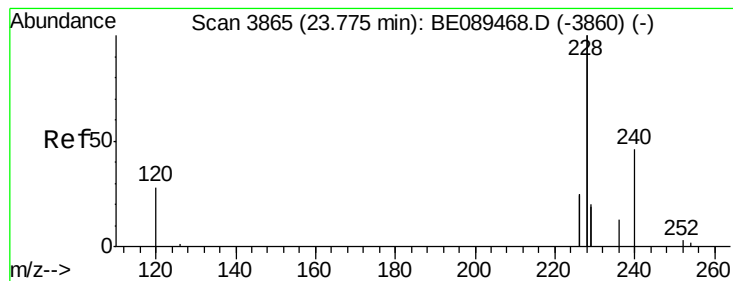
Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 14.3 12.6 19.0





#23

Benzo(a)anthracene

Concen: 5.78 ng

RT: 23.78 min Scan# 3866

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

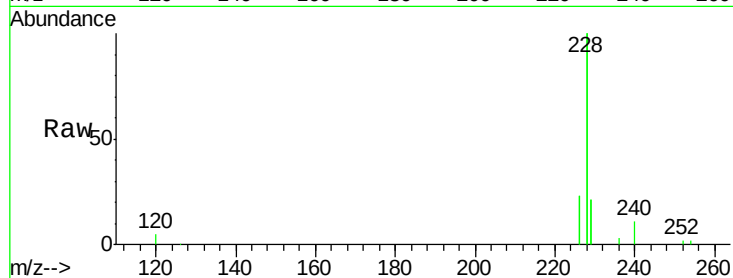
Tgt Ion:228 Resp: 1127163

Ion Ratio Lower Upper

228 100

226 23.3 19.6 29.4

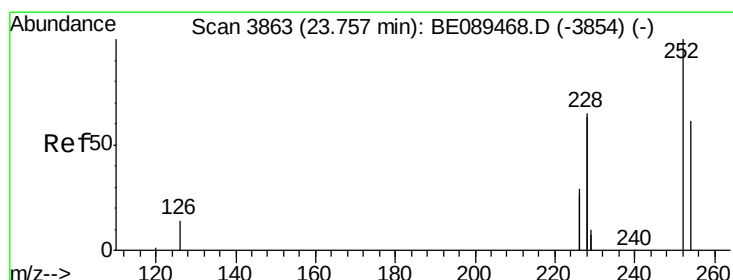
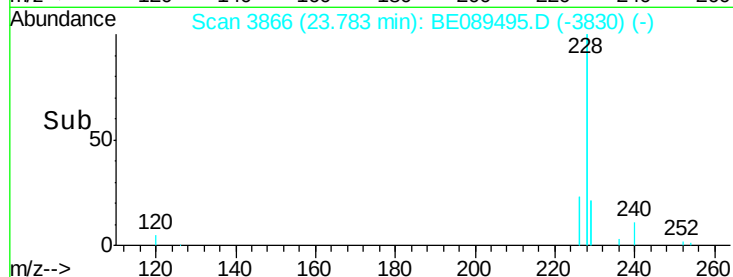
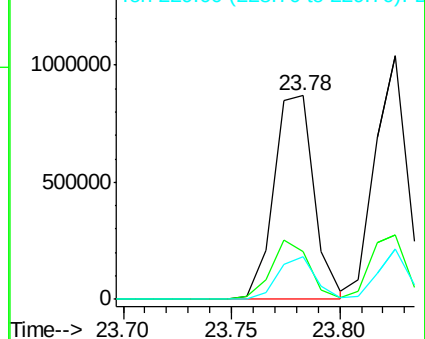
229 21.2 15.9 23.9



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: 6.05 ng

RT: 23.77 min Scan# 3864

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

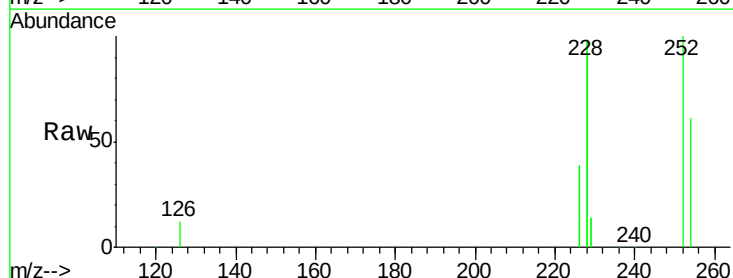
Tgt Ion:252 Resp: 110783

Ion Ratio Lower Upper

252 100

254 61.5 48.6 73.0

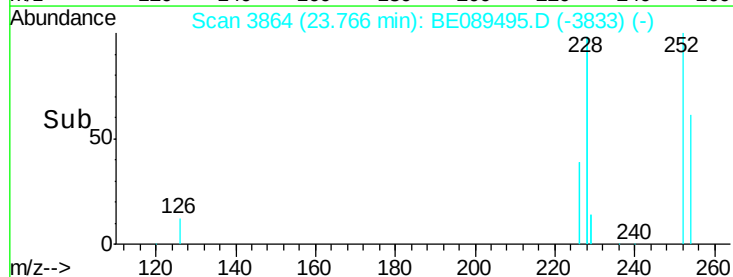
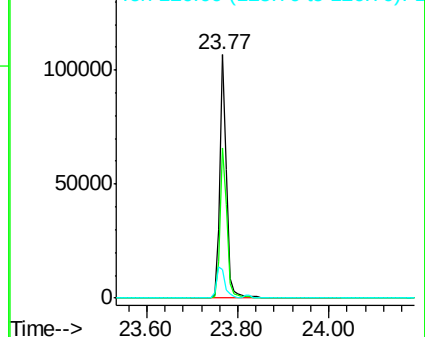
126 11.6 12.4 18.6#

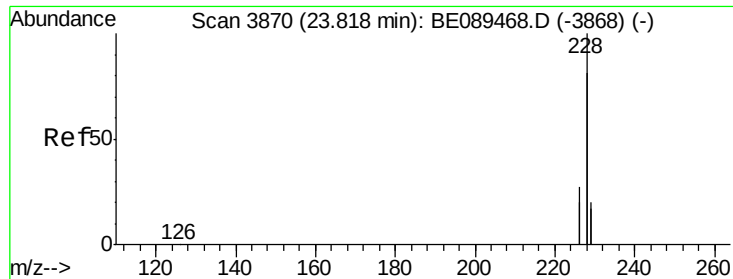


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 5.53 ng

RT: 23.83 min Scan# 3871

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

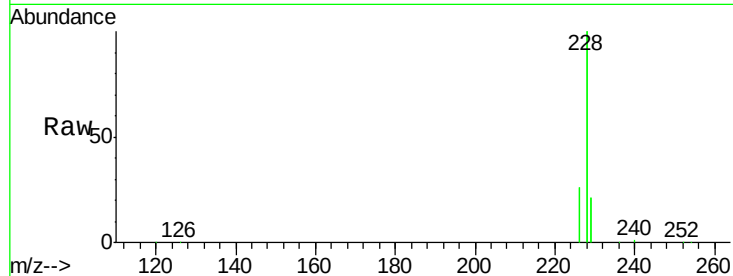
Tgt Ion:228 Resp: 1124460

Ion Ratio Lower Upper

228 100

226 26.2 21.8 32.8

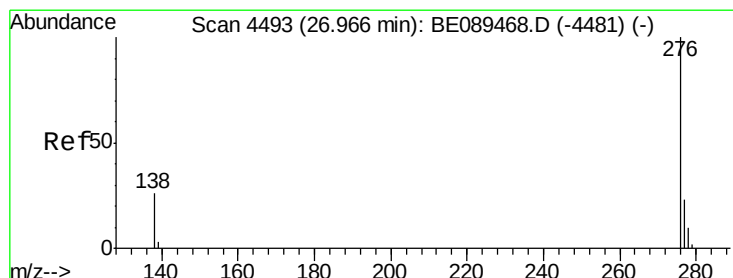
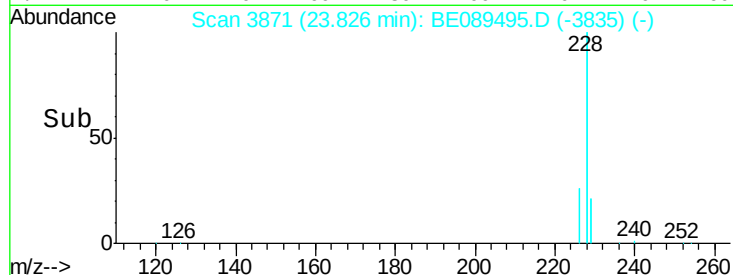
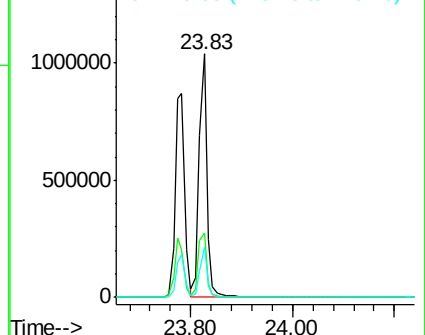
229 20.7 16.2 24.2



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: 5.88 ng

RT: 26.98 min Scan# 4496

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

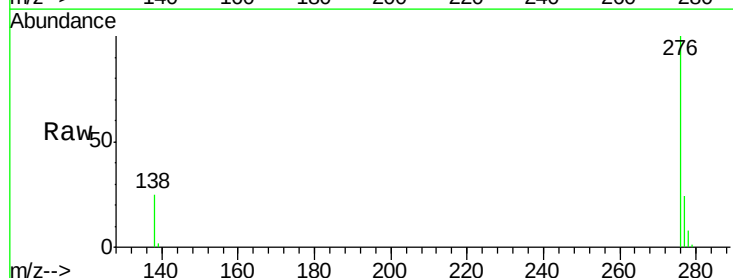
Tgt Ion:276 Resp: 335913

Ion Ratio Lower Upper

276 100

138 29.7 24.2 36.4

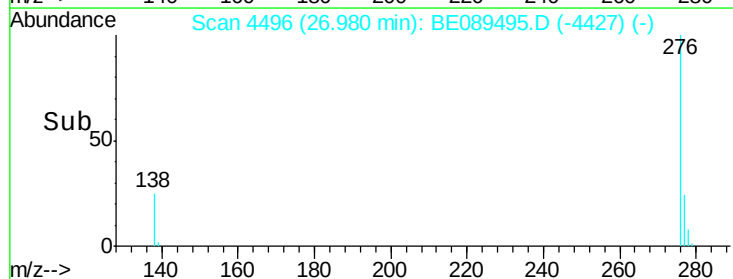
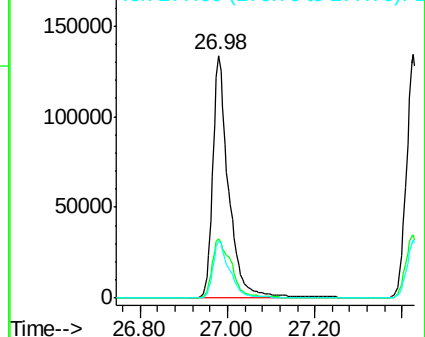
277 24.9 19.9 29.9

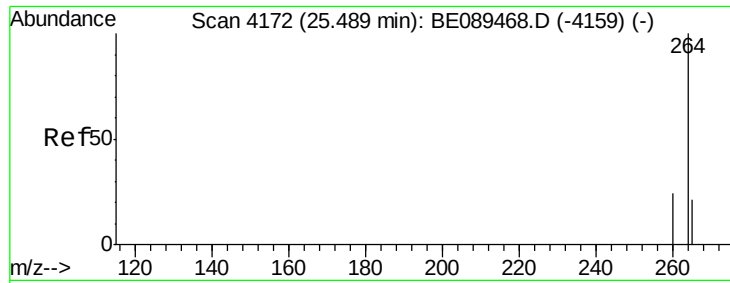


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

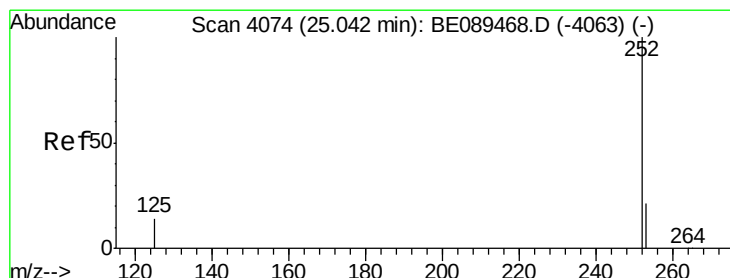
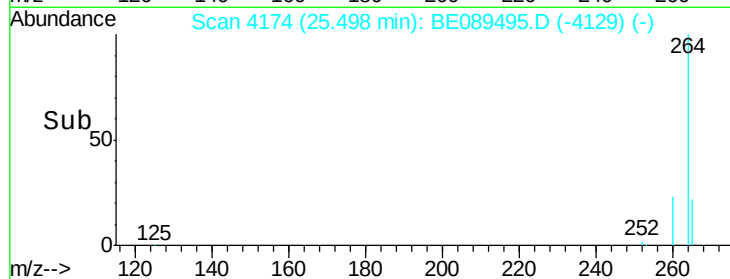
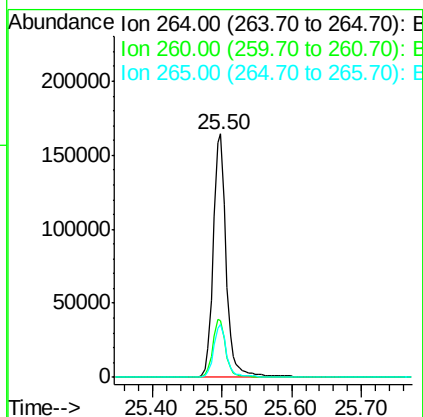
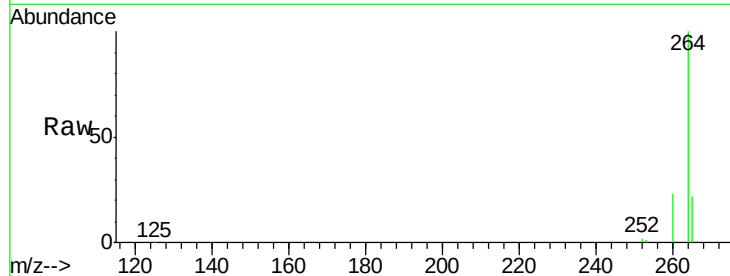




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.50 min Scan# 4174
 Delta R.T. 0.01 min
 Lab File: BE089495.D
 Acq: 4 Feb 2015 14:02

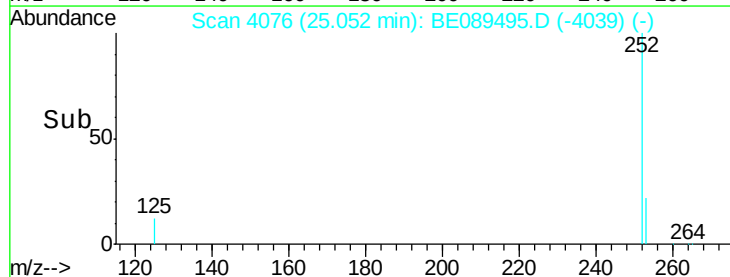
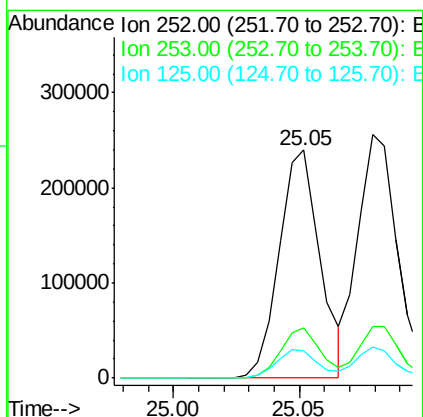
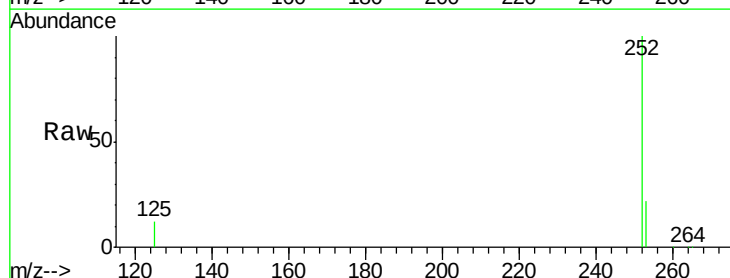
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

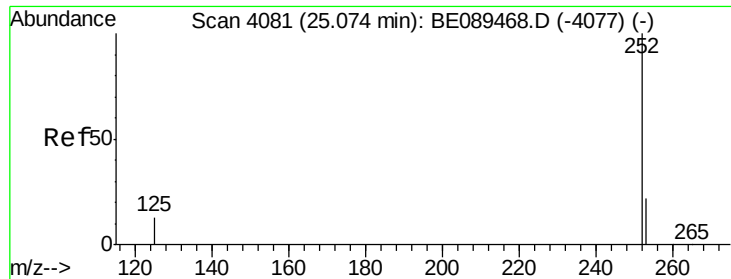
Tgt Ion: 264 Resp: 211808
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.1 28.7
 265 21.9 17.0 25.6



#28
Benzo(b)fluoranthene
 Concen: 5.60 ng
 RT: 25.05 min Scan# 4076
 Delta R.T. 0.01 min
 Lab File: BE089495.D
 Acq: 4 Feb 2015 14:02

Tgt Ion: 252 Resp: 268781
 Ion Ratio Lower Upper
 252 100
 253 22.1 17.4 26.2
 125 11.9 11.3 16.9





#29

Benzo(k)fluoranthene

Concen: 5.52 ng

RT: 25.08 min Scan# 4082

Delta R.T. 0.00 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

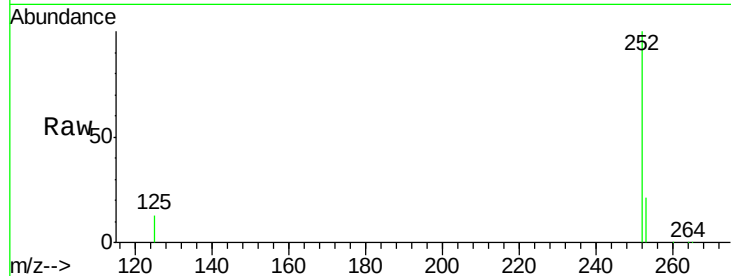
Tgt Ion:252 Resp: 303348

Ion Ratio Lower Upper

252 100

253 21.1 17.9 26.9

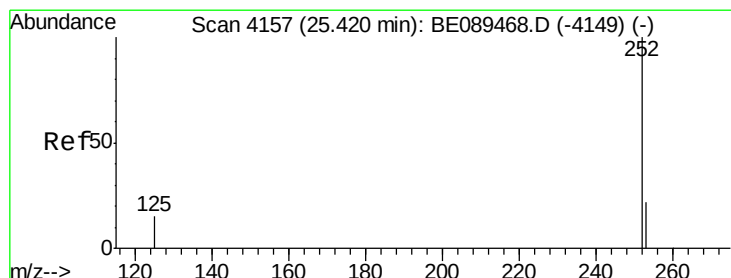
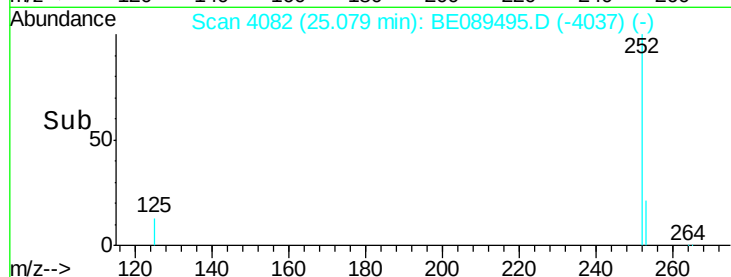
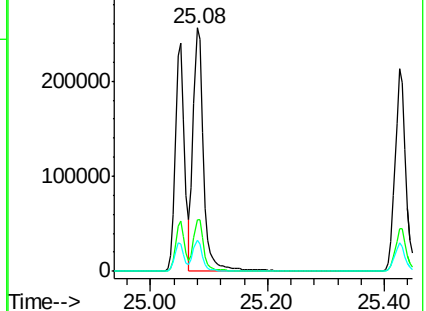
125 12.6 10.6 15.8



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: 5.70 ng

RT: 25.43 min Scan# 4158

Delta R.T. 0.01 min

Lab File: BE089495.D

Acq: 4 Feb 2015 14:02

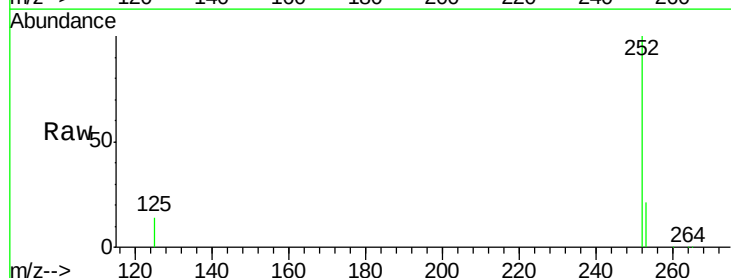
Tgt Ion:252 Resp: 267507

Ion Ratio Lower Upper

252 100

253 21.3 18.2 27.2

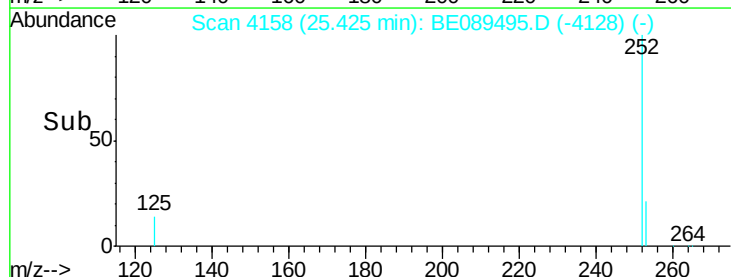
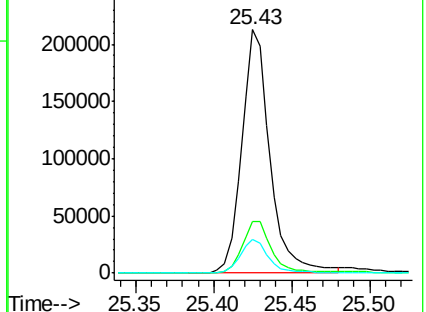
125 13.8 12.2 18.4

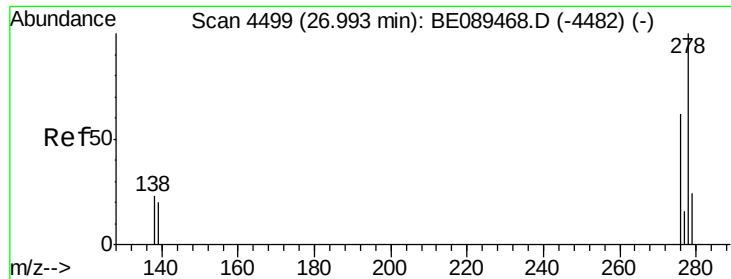


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Dibenzo(a,h)anthracene

Concen: 5.97 ng

RT: 27.01 min Scan# 4502

Delta R.T. 0.01 min

Lab File: BE089495.D

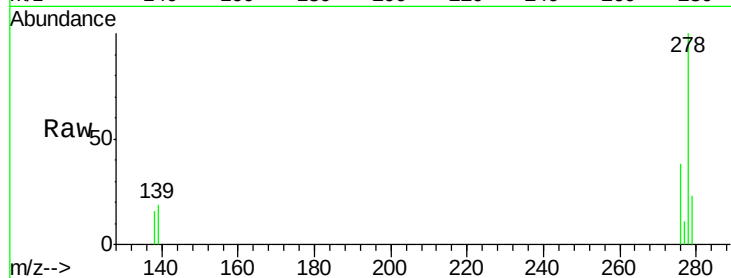
Acq: 4 Feb 2015 14:02

Instrument :

BNA_E

ClientSampleId :

PB81495BSD



Tgt Ion: 278 Resp: 297521

Ion Ratio Lower Upper

278 100

139 18.8 16.8 25.2

279 23.4 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

