

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
 Data File : BE089479.D
 Acq On : 4 Feb 2015 00:46
 Operator : TP/IZ
 Sample : PB81408BS
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81408BS

Quant Time: Feb 04 02:54:15 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	174683	5.00	ng	0.00
7) Naphthalene-d8	12.44	136	697728	5.00	ng	0.01
13) Acenaphthene-d10	16.62	164	326934	5.00	ng	0.01
17) Phenanthrene-d10	19.94	188	554386	5.00	ng	0.00
20) Chrysene-d12	23.80	240	511337	5.00	ng	0.02
27) Perylene-d12	25.50	264	484514	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.74	112	574251	10.17	ng	0.02
4) Phenol-d6	8.87	99	749905	10.58	ng	0.04
8) Nitrobenzene-d5	10.81	82	464272	8.80	ng	0.02
14) 2,4,6-Tribromophenol	18.53	330	140242	9.90	ng	0.02
15) 2-Fluorobiphenyl	15.07	172	661771	7.68	ng	0.01
22) Terphenyl-d14	22.44	244	673568	9.29	ng	0.00

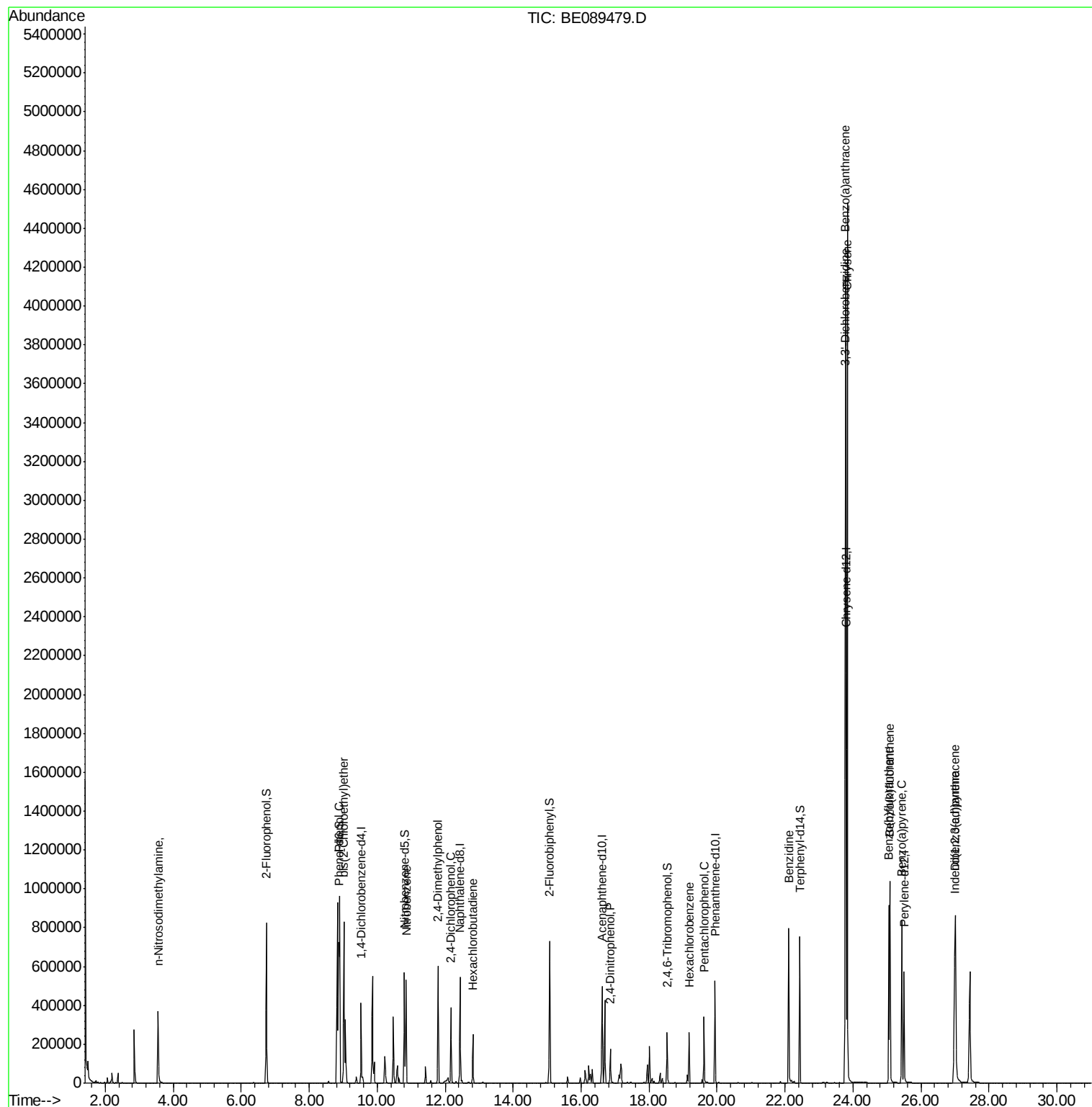
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.55	42	253589	7.14	ng	# 75
5) Phenol	8.90	94	485689	6.26	ng	# 66
6) bis(2-Chloroethyl)ether	9.02	93	404411	7.20	ng	# 98
9) Nitrobenzene	10.85	77	472401	7.82	ng	99
10) 2,4-Dimethylphenol	11.79	122	301379	6.90	ng	94
11) 2,4-Dichlorophenol	12.17	162	249562	7.74	ng	95
12) Hexachlorobutadiene	12.81	225	149986	6.95	ng	98
16) 2,4-Dinitrophenol	16.87	184	109277	13.94	ng	# 61
18) Hexachlorobenzene	19.18	284	213646	7.45	ng	# 82
19) Pentachlorophenol	19.62	266	188468	14.28	ng	99
21) Benzidine	22.10	184	863161	33.78	ng	98
23) Benzo(a)anthracene	23.78	228	3589127	7.90	ng	98
24) 3,3'-Dichlorobenzidine	23.77	252	353298	8.24	ng	98
25) Chrysene	23.83	228	3242274	6.85	ng	94
26) Indeno(1,2,3-cd)pyrene	26.99	276	1006791	7.54	ng	99
28) Benzo(b)fluoranthene	25.05	252	826195	7.46	ng	98
29) Benzo(k)fluoranthene	25.08	252	908178	7.23	ng	98
30) Benzo(a)pyrene	25.43	252	839855	7.76	ng	97
31) Dibenzo(a,h)anthracene	27.01	278	888913	7.76	ng	97

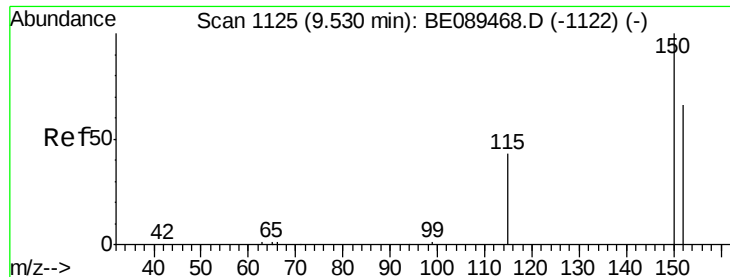
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.53 min Scan# 1125

Delta R.T. 0.00 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS

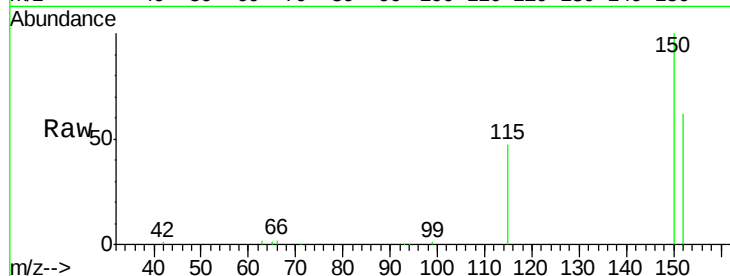
Tgt Ion:152 Resp: 174683

Ion Ratio Lower Upper

152 100

150 161.5 122.1 183.1

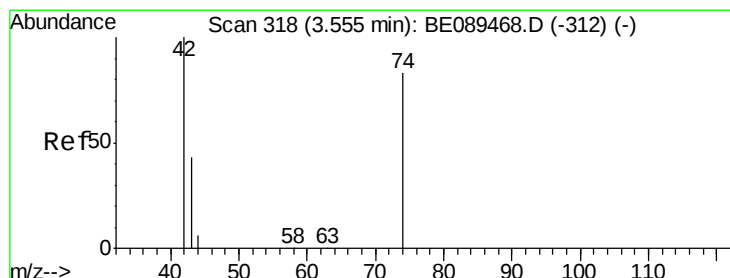
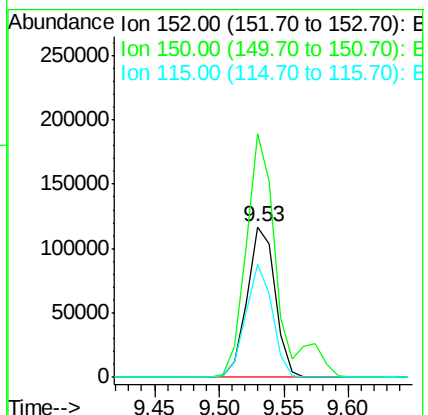
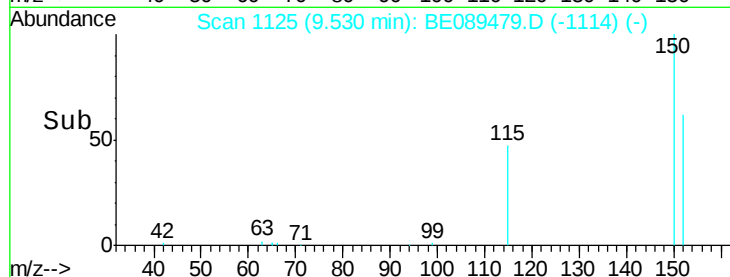
115 75.3 53.2 79.8



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: 7.14 ng

RT: 3.55 min Scan# 317

Delta R.T. -0.00 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

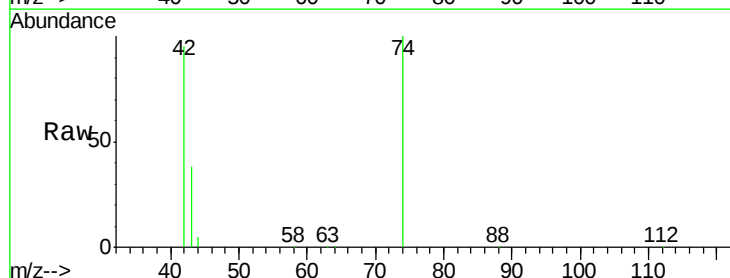
Tgt Ion: 42 Resp: 253589

Ion Ratio Lower Upper

42 100

74 104.7 65.4 98.2#

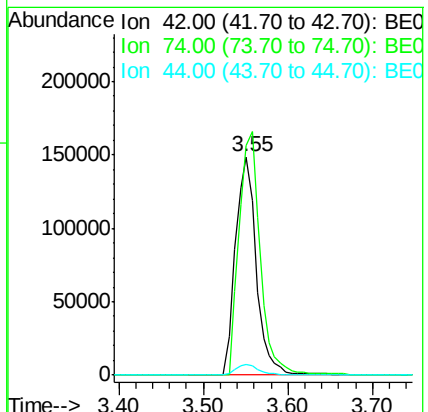
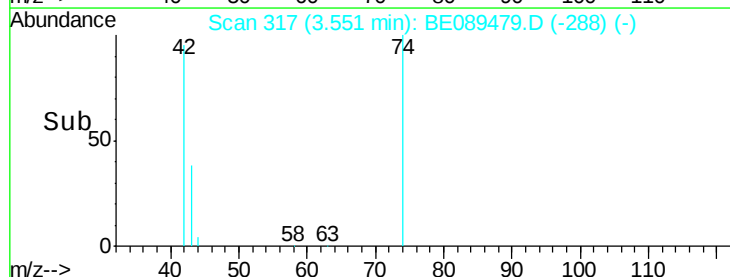
44 4.9 11.7 17.5#

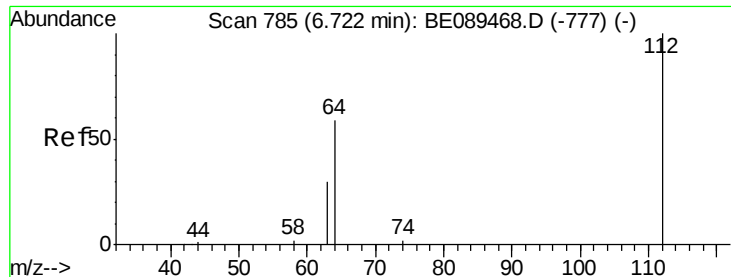


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 10.17 ng

RT: 6.74 min Scan# 787

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampled :

PB81408BS

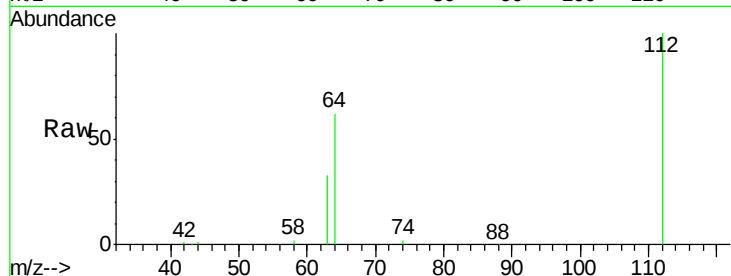
Tgt Ion: 112 Resp: 574251

Ion Ratio Lower Upper

112 100

64 62.2 47.0 70.6

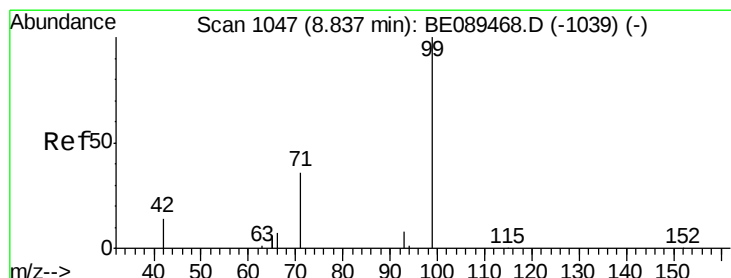
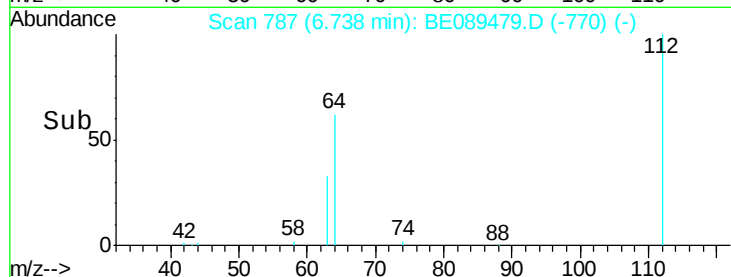
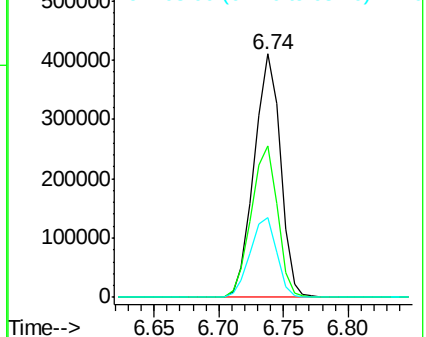
63 32.7 24.2 36.2



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: 10.58 ng

RT: 8.87 min Scan# 1051

Delta R.T. 0.04 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

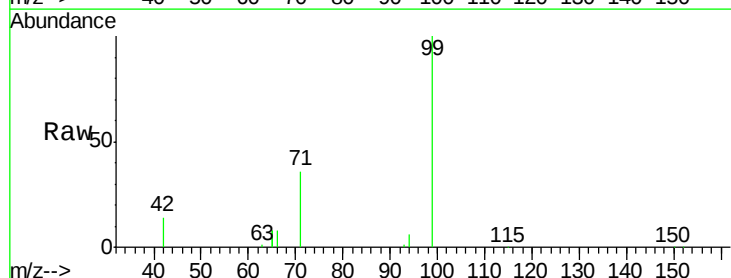
Tgt Ion: 99 Resp: 749905

Ion Ratio Lower Upper

99 100

42 14.0 11.8 17.6

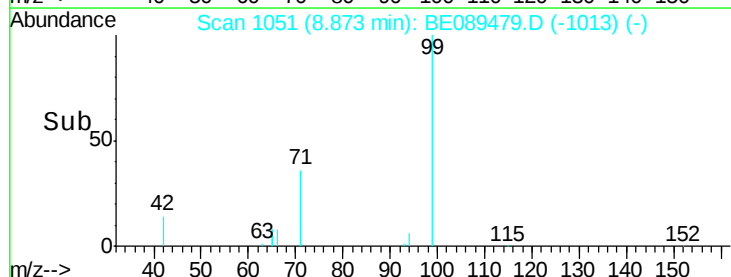
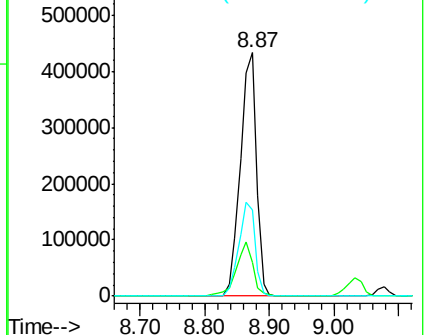
71 35.6 28.7 43.1

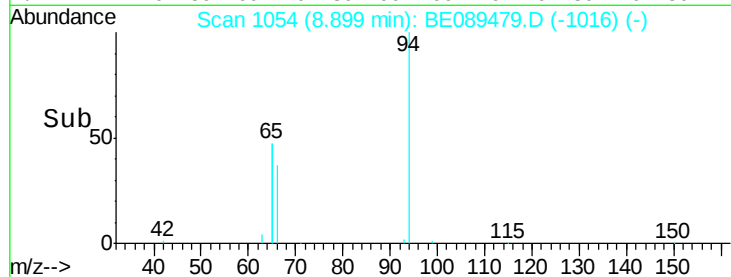
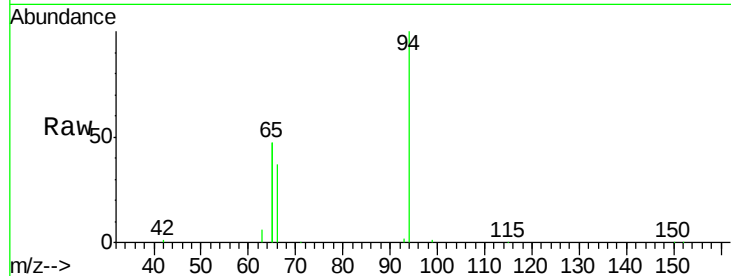
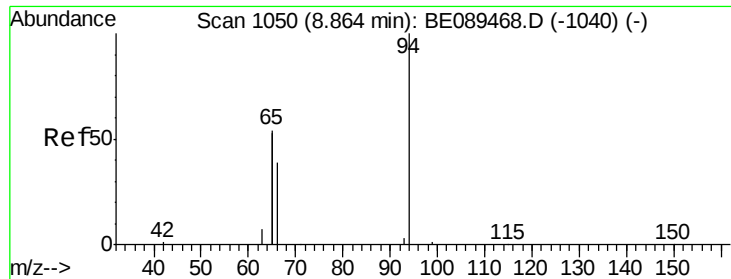


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 6.26 ng

RT: 8.90 min Scan# 1054

Delta R.T. 0.04 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampled :

PB81408BS

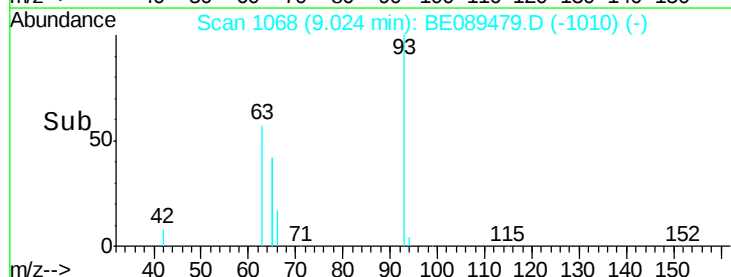
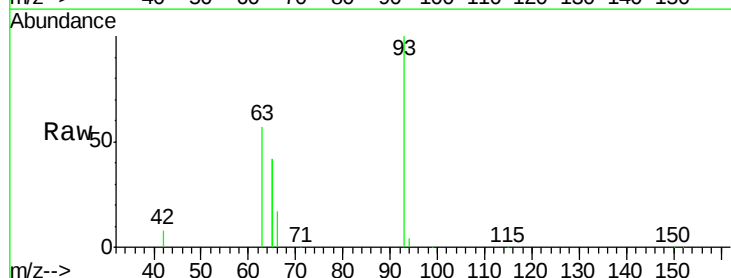
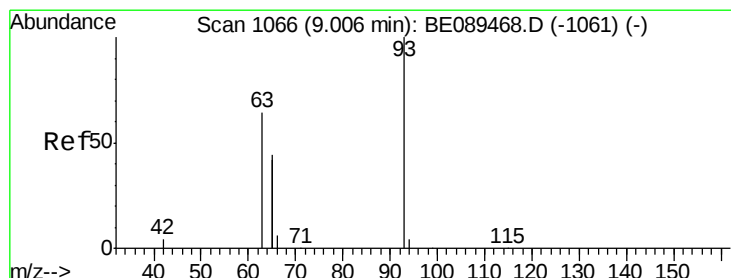
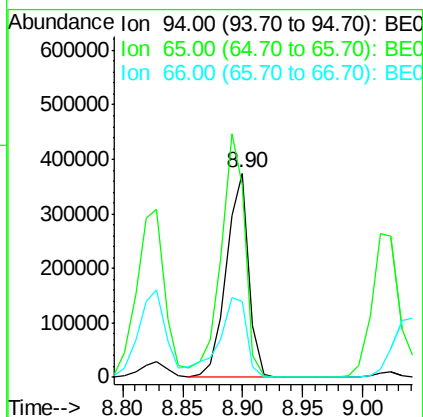
Tgt Ion: 94 Resp: 485689

Ion Ratio Lower Upper

94 100

65 94.0 33.9 73.9#

66 36.9 19.1 59.1



#6

bis(2-Chloroethyl)ether

Concen: 7.20 ng

RT: 9.02 min Scan# 1068

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

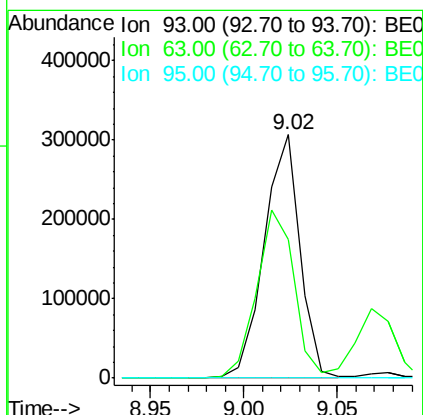
Tgt Ion: 93 Resp: 404411

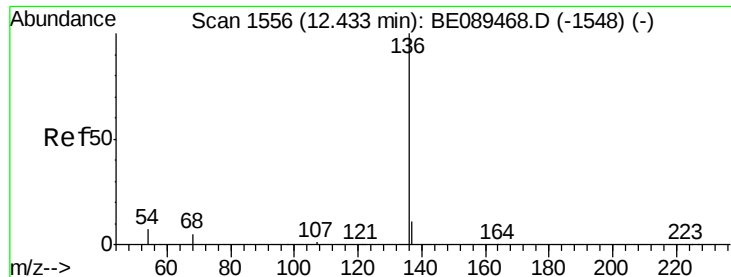
Ion Ratio Lower Upper

93 100

63 72.6 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: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS

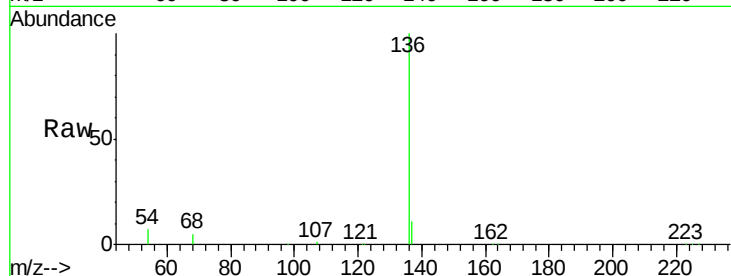
Tgt Ion: 136 Resp: 697728

Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

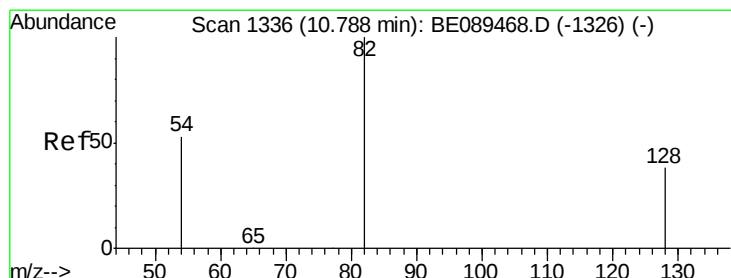
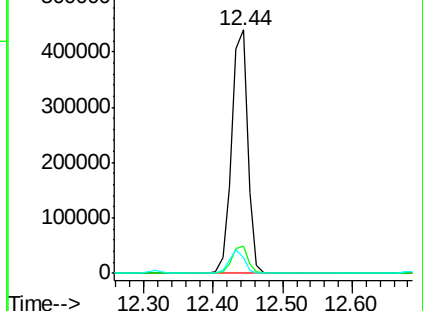
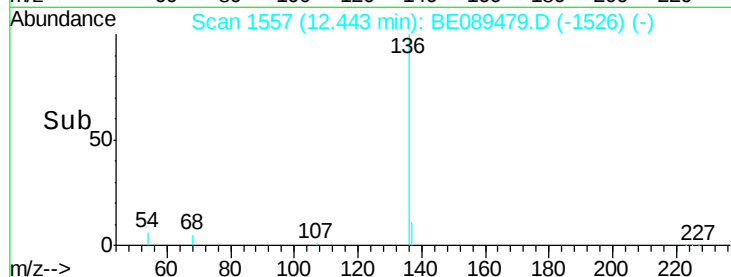
54 6.5 5.4 8.0



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: 8.80 ng

RT: 10.81 min Scan# 1340

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

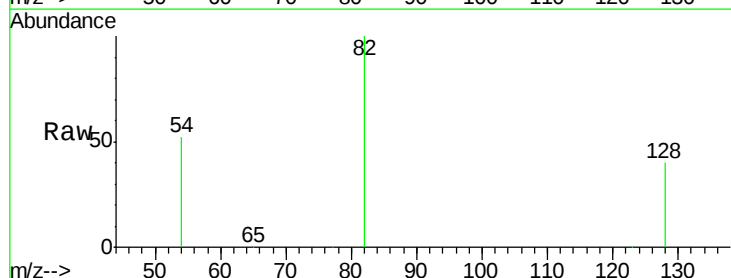
Tgt Ion: 82 Resp: 464272

Ion Ratio Lower Upper

82 100

128 39.6 30.3 45.5

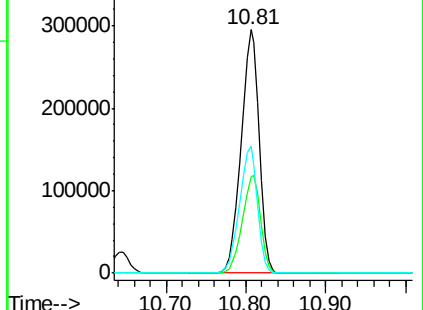
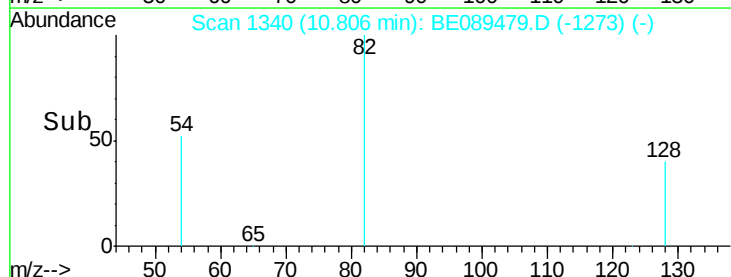
54 52.1 43.1 64.7

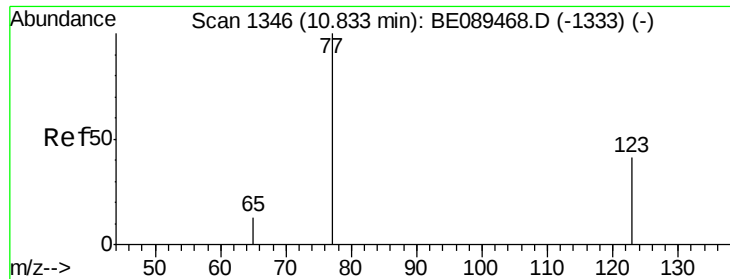


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 7.82 ng

RT: 10.85 min Scan# 1350

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

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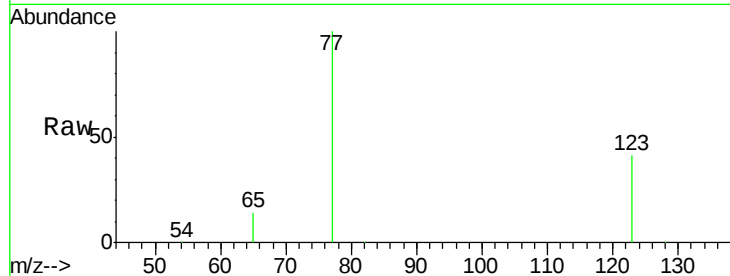
Tgt Ion: 77 Resp: 472401

Ion Ratio Lower Upper

77 100

123 42.3 33.4 50.0

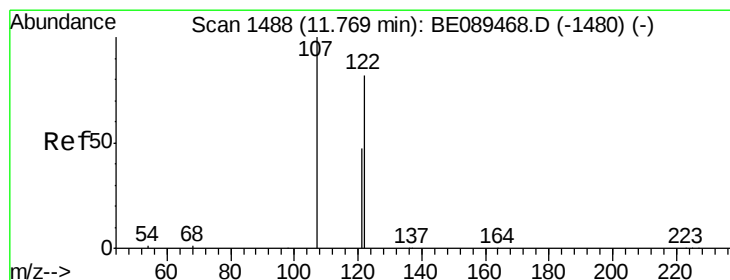
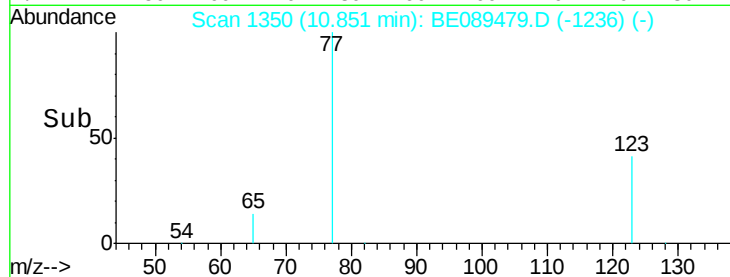
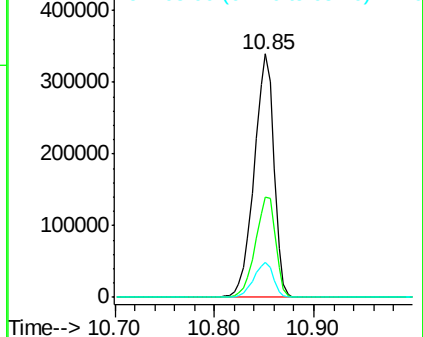
65 14.4 10.9 16.3



Abundance Ion 77.00 (76.70 to 77.70): BE089468.D (-1333) (-)

Ion 123.00 (122.70 to 123.70): BE089468.D (-1333) (-)

Ion 65.00 (64.70 to 65.70): BE089468.D (-1333) (-)



#10

2,4-Dimethylphenol

Concen: 6.90 ng

RT: 11.79 min Scan# 1490

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

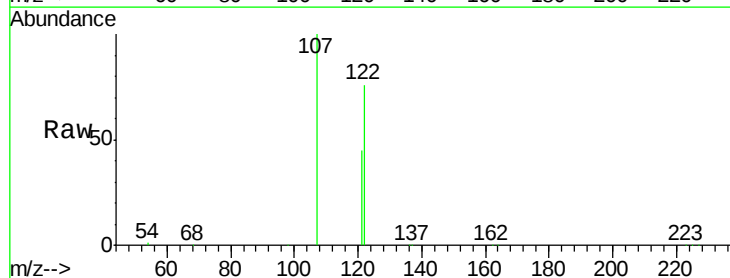
Tgt Ion: 122 Resp: 301379

Ion Ratio Lower Upper

122 100

107 131.5 97.3 145.9

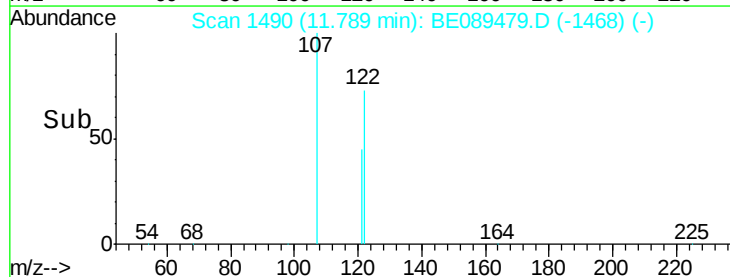
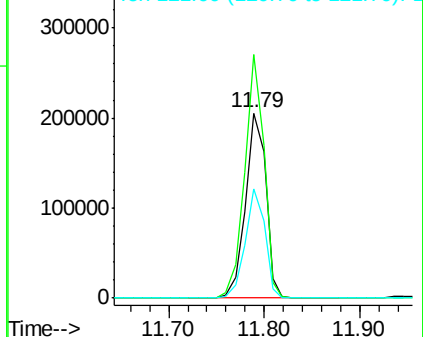
121 58.9 46.4 69.6

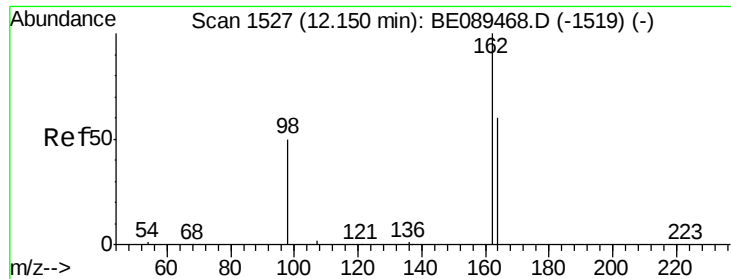


Abundance Ion 122.00 (121.70 to 122.70): BE089468.D (-1480) (-)

Ion 107.00 (106.70 to 107.70): BE089468.D (-1480) (-)

Ion 121.00 (120.70 to 121.70): BE089468.D (-1480) (-)

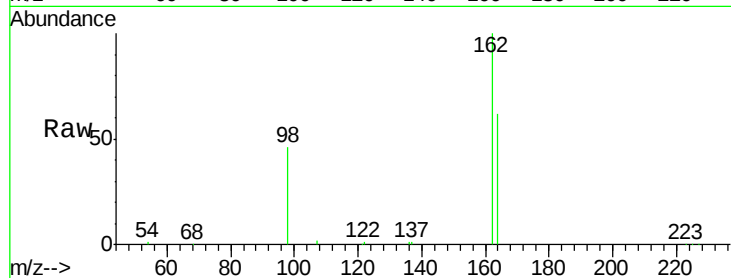




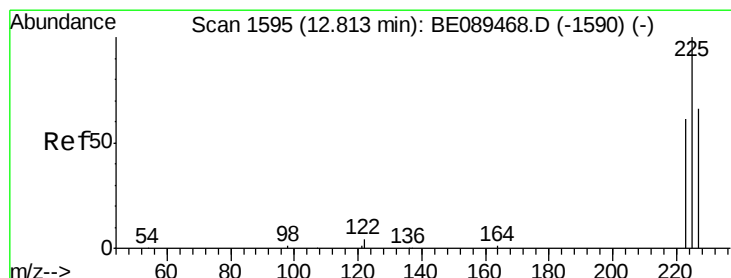
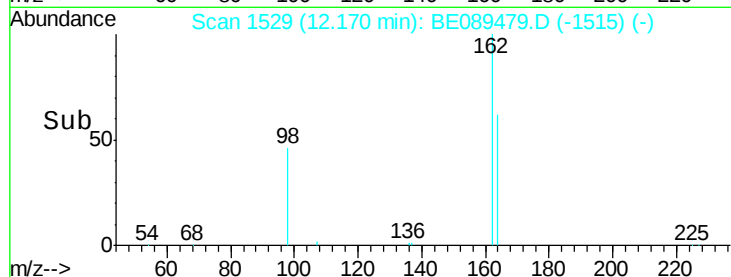
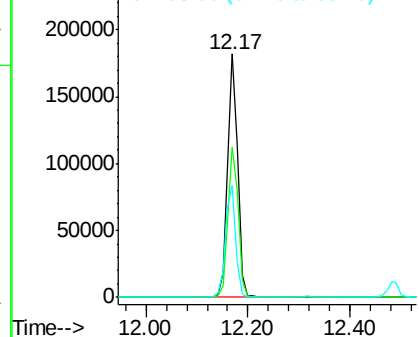
#11
 2,4-Dichlorophenol
 Concen: 7.74 ng
 RT: 12.17 min Scan# 1529
 Delta R.T. 0.02 min
 Lab File: BE089479.D
 Acq: 4 Feb 2015 00:46

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Tgt Ion	Ratio	Lower	Upper
162	100		
164	61.5	39.9	79.9
98	45.7	31.3	71.3

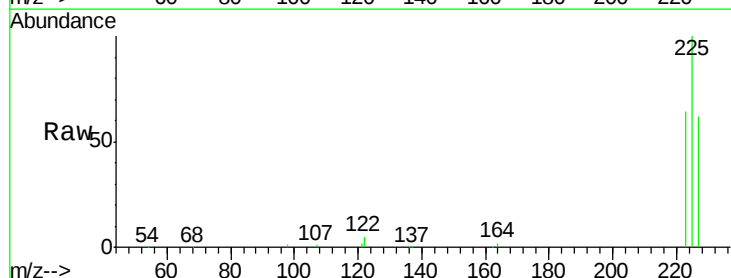


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): E

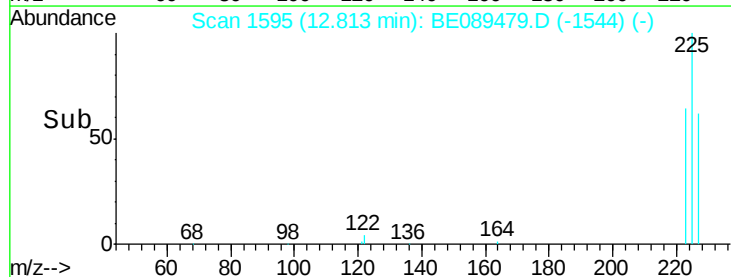
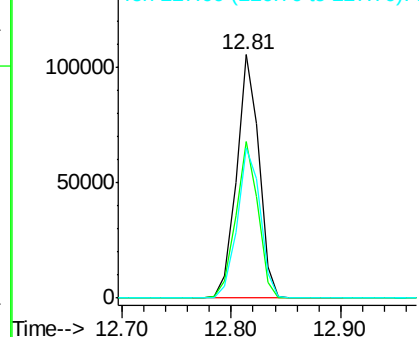


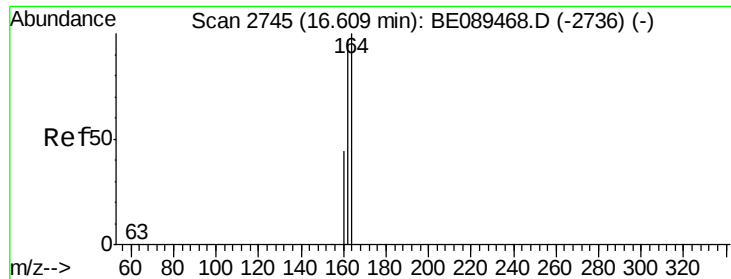
#12
 Hexachlorobutadiene
 Concen: 6.95 ng
 RT: 12.81 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: BE089479.D
 Acq: 4 Feb 2015 00:46

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	49.4	74.0
227	63.4	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# 2747

Delta R.T. 0.01 min

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Acq: 4 Feb 2015 00:46

Instrument :

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PB81408BS

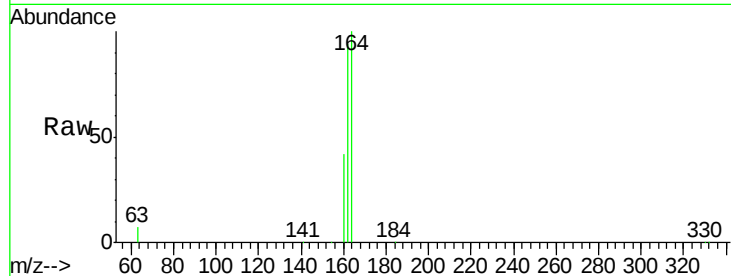
Tgt Ion:164 Resp: 326934

Ion Ratio Lower Upper

164 100

162 93.7 77.6 116.4

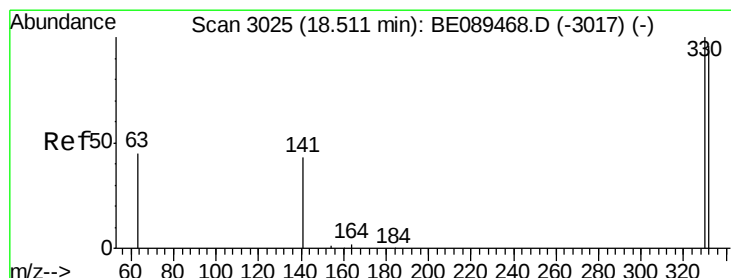
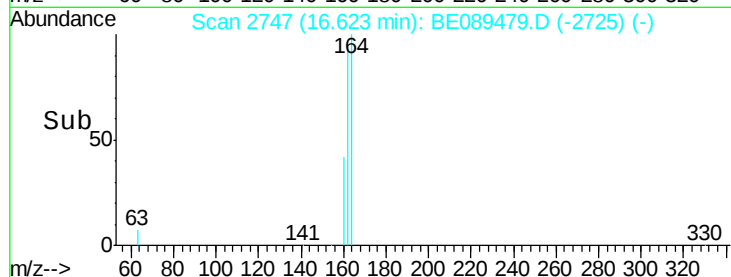
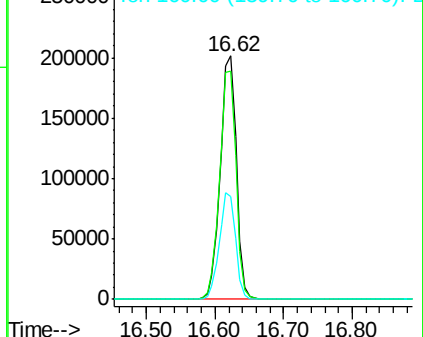
160 42.3 35.6 53.4



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: 9.90 ng

RT: 18.53 min Scan# 3028

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

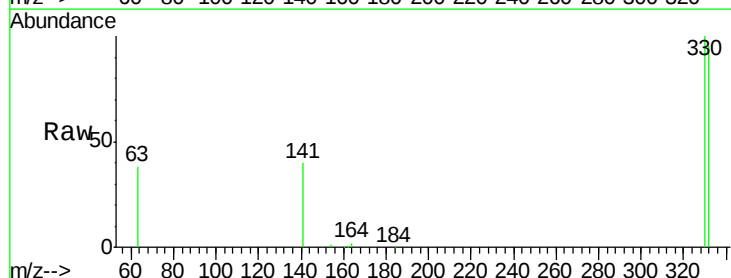
Tgt Ion:330 Resp: 140242

Ion Ratio Lower Upper

330 100

332 95.9 78.0 117.0

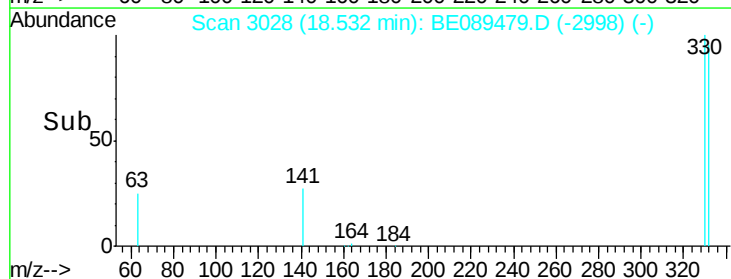
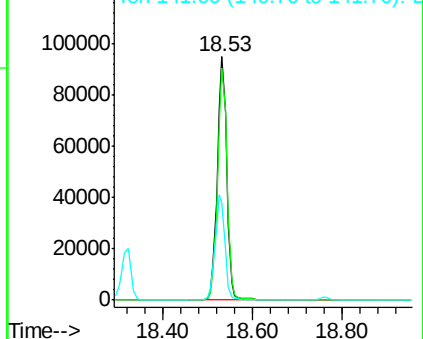
141 44.3 33.8 50.6

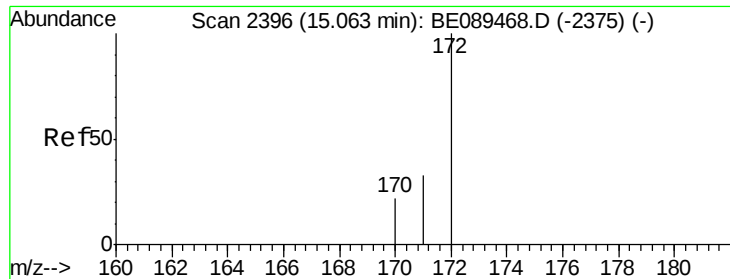


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

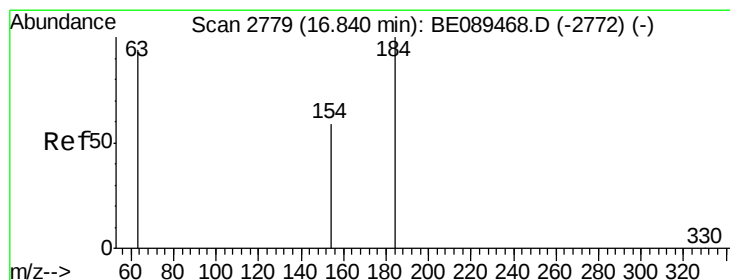
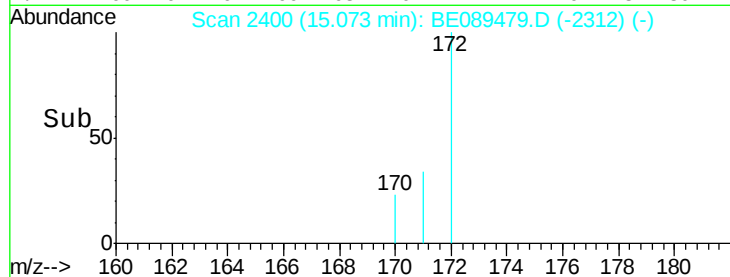
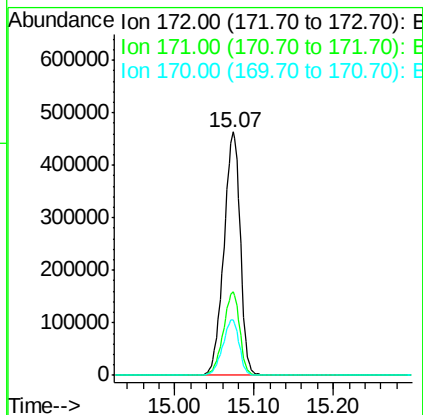
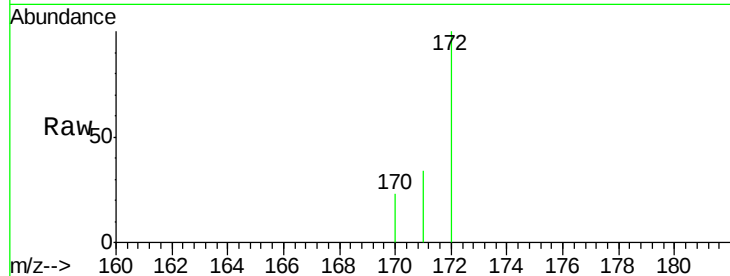




#15
 2-Fluorobiphenyl
 Concen: 7.68 ng
 RT: 15.07 min Scan# 2400
 Delta R.T. 0.01 min
 Lab File: BE089479.D
 Acq: 4 Feb 2015 00:46

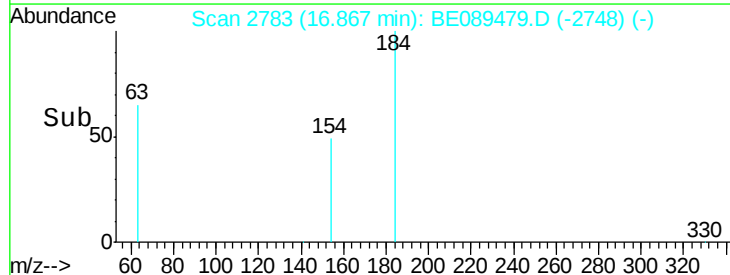
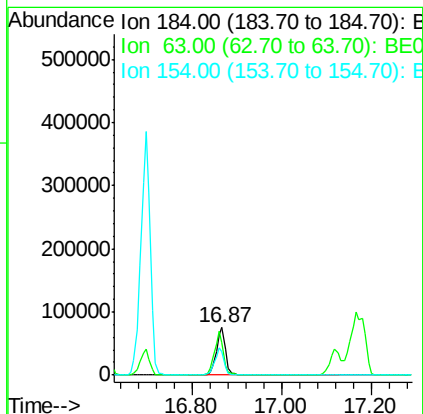
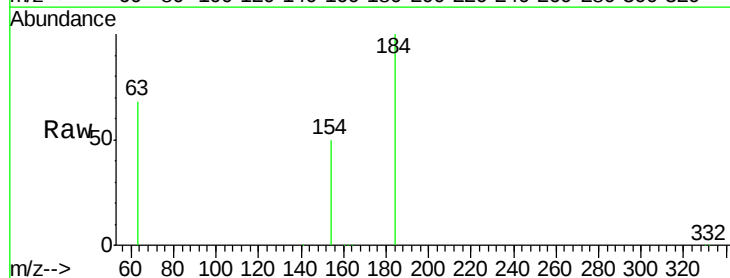
Instrument :
 BNA_E
 ClientSampleId :
 PB81408BS

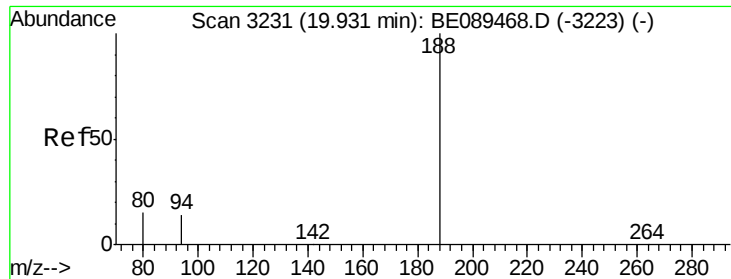
Tgt Ion:172 Resp: 661771
 Ion Ratio Lower Upper
 172 100
 171 34.5 26.8 40.2
 170 23.0 17.7 26.5



#16
 2,4-Dinitrophenol
 Concen: 13.94 ng
 RT: 16.87 min Scan# 2783
 Delta R.T. 0.03 min
 Lab File: BE089479.D
 Acq: 4 Feb 2015 00:46

Tgt Ion:184 Resp: 109277
 Ion Ratio Lower Upper
 184 100
 63 68.1 92.1 138.1#
 154 49.8 61.4 92.2#

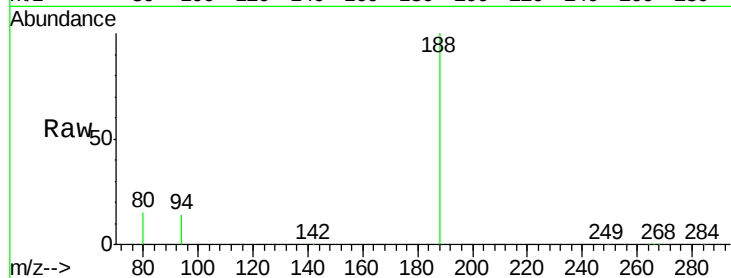




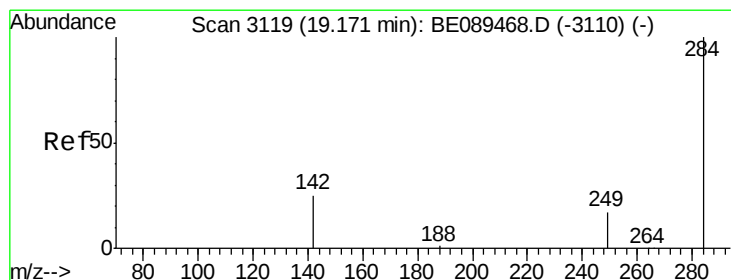
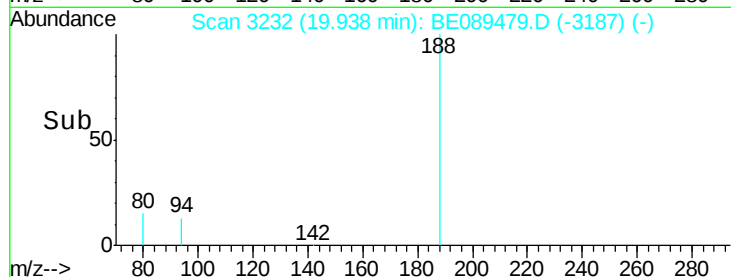
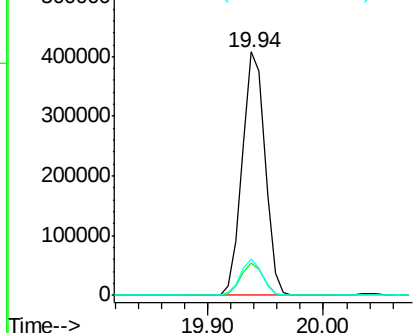
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.94 min Scan# 3232
Delta R.T. 0.01 min
Lab File: BE089479.D
Acq: 4 Feb 2015 00:46

Instrument :
BNA_E
ClientSampleId :
PB81408BS

Tgt Ion:188 Resp: 554386
Ion Ratio Lower Upper
188 100
94 13.5 11.1 16.7
80 14.7 11.8 17.6

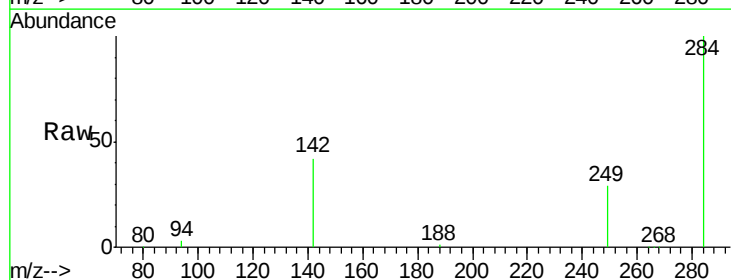


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

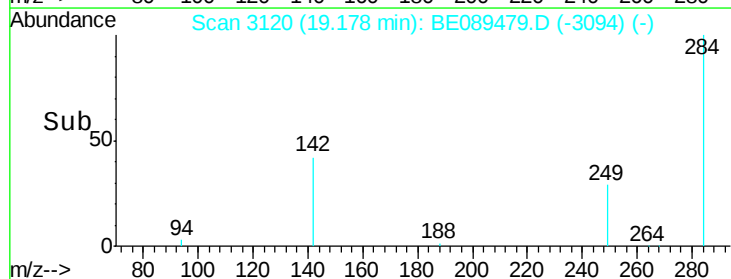
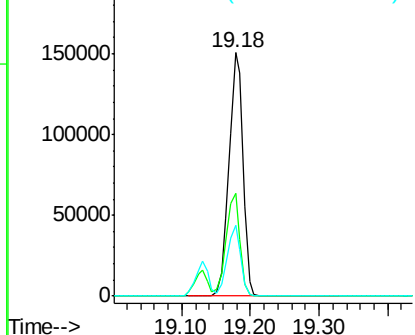


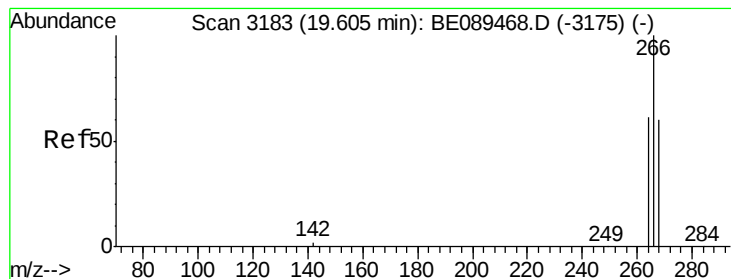
#18
Hexachlorobenzene
Concen: 7.45 ng
RT: 19.18 min Scan# 3120
Delta R.T. 0.01 min
Lab File: BE089479.D
Acq: 4 Feb 2015 00:46

Tgt Ion:284 Resp: 213646
Ion Ratio Lower Upper
284 100
142 42.0 24.4 36.6#
249 28.9 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: 14.28 ng

RT: 19.62 min Scan# 3185

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS

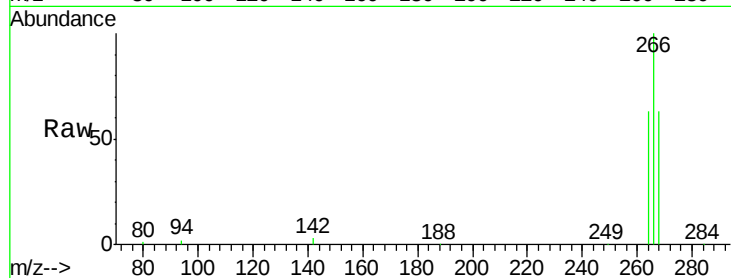
Tgt Ion:266 Resp: 188468

Ion Ratio Lower Upper

266 100

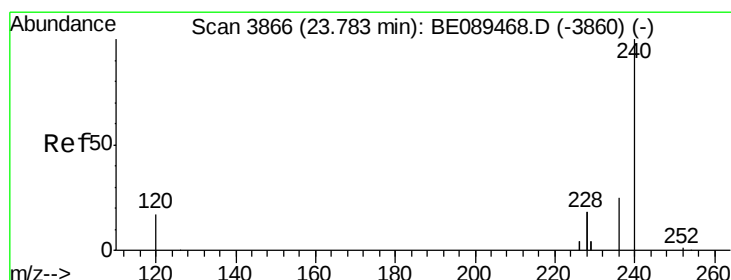
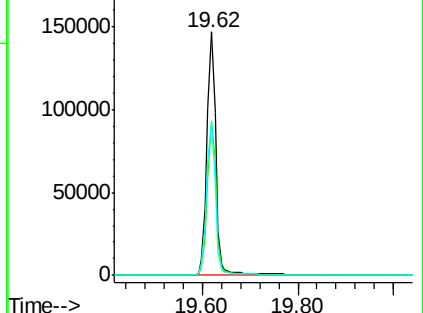
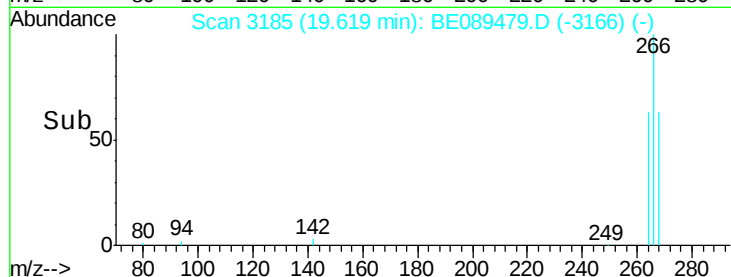
268 63.1 50.0 75.0

264 62.7 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

19.62



#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.80 min Scan# 3868

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

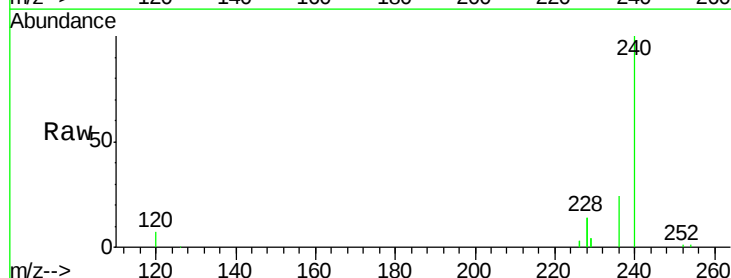
Tgt Ion:240 Resp: 511337

Ion Ratio Lower Upper

240 100

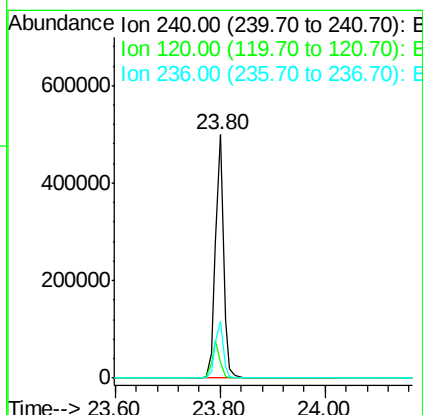
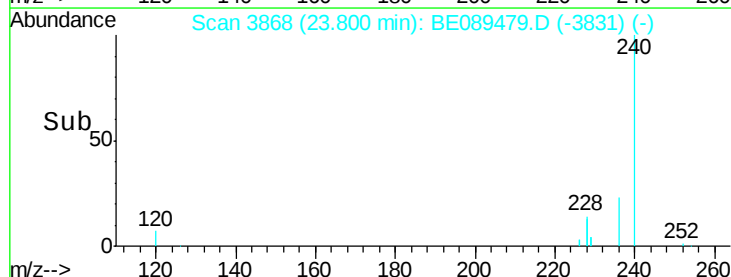
120 6.5 13.8 20.6#

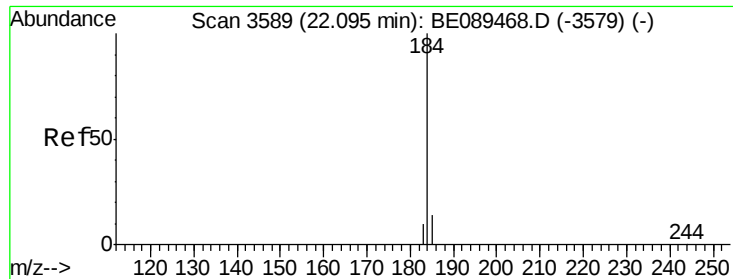
236 23.5 20.2 30.2



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

23.80





#21

Benzidine

Concen: 33.78 ng

RT: 22.10 min Scan# 3591

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS

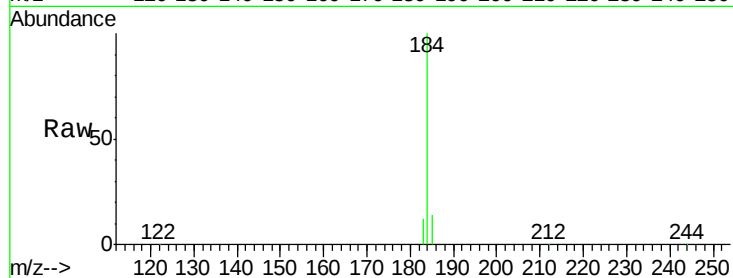
Tgt Ion:184 Resp: 863161

Ion Ratio Lower Upper

184 100

185 13.9 12.0 18.0

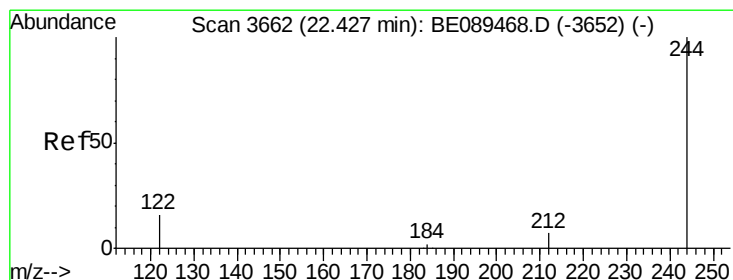
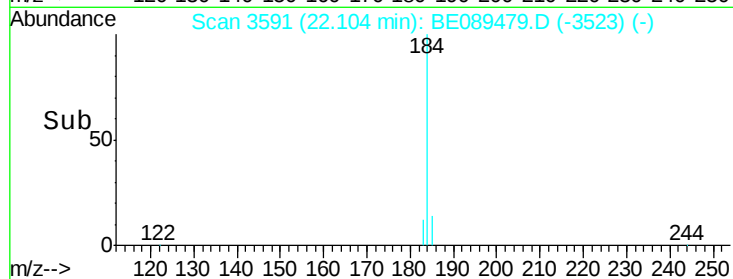
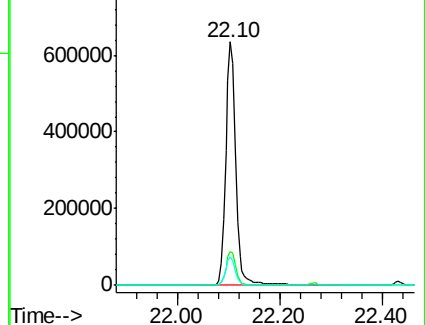
183 11.9 9.0 13.4



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#22

Terphenyl-d14

Concen: 9.29 ng

RT: 22.44 min Scan# 3664

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

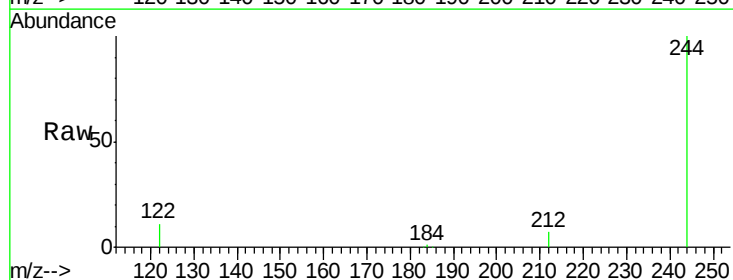
Tgt Ion:244 Resp: 673568

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

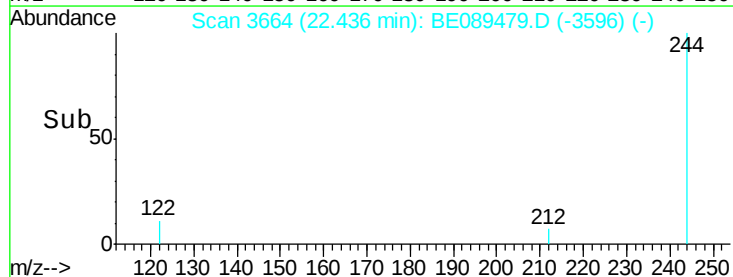
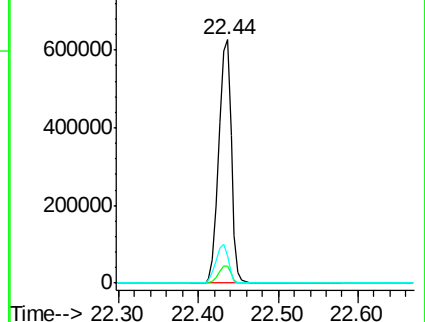
122 11.1 12.6 19.0#

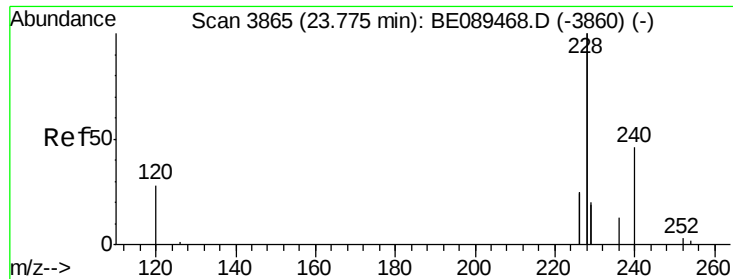


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 7.90 ng

RT: 23.78 min Scan# 3866

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS

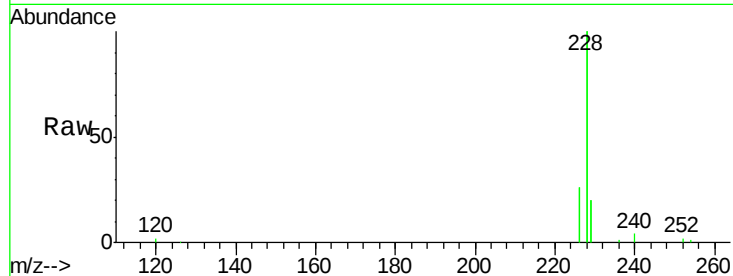
Tgt Ion:228 Resp: 3589127

Ion Ratio Lower Upper

228 100

226 26.1 19.6 29.4

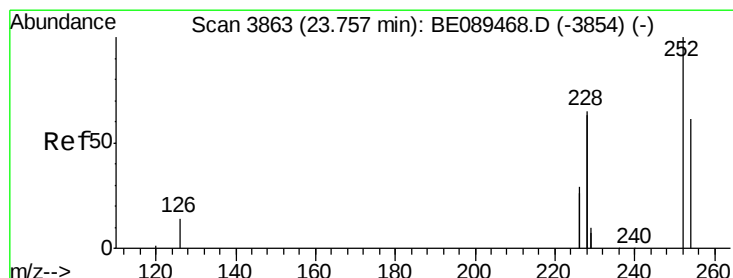
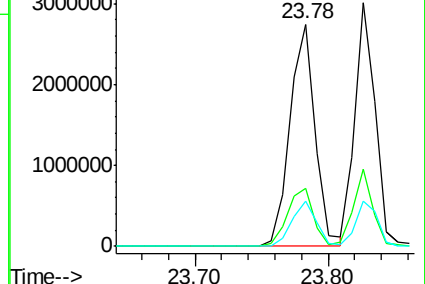
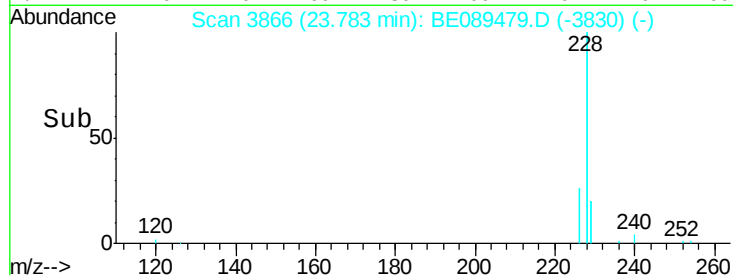
229 20.1 15.9 23.9



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: 8.24 ng

RT: 23.77 min Scan# 3864

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

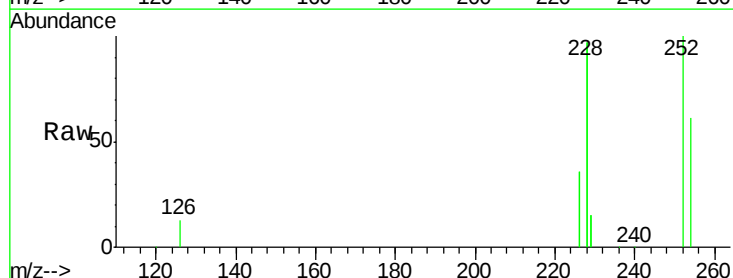
Tgt Ion:252 Resp: 353298

Ion Ratio Lower Upper

252 100

254 61.3 48.6 73.0

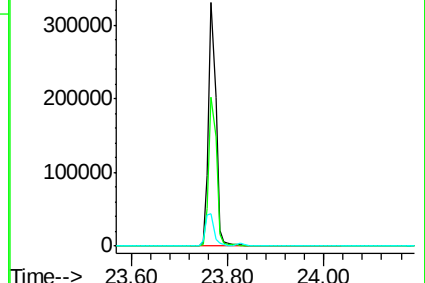
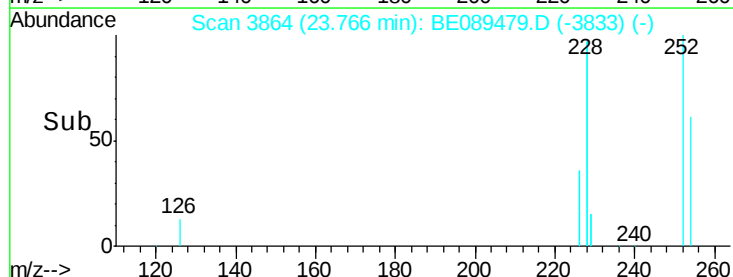
126 13.3 12.4 18.6

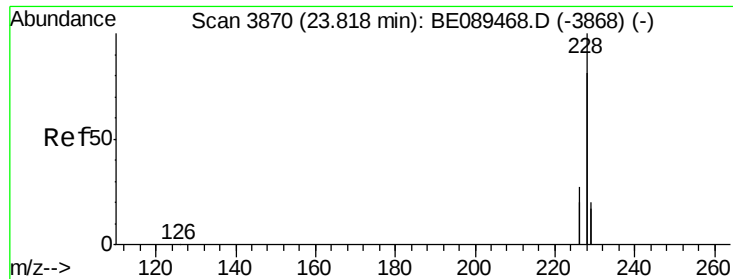


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 6.85 ng

RT: 23.83 min Scan# 3871

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS

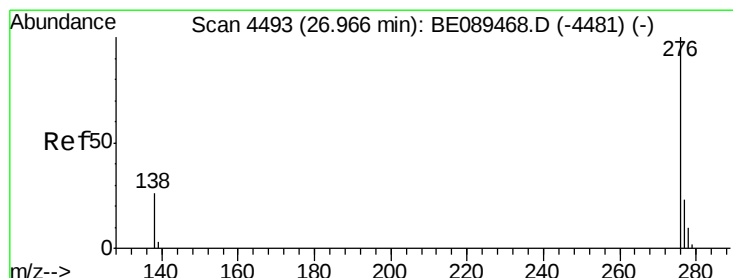
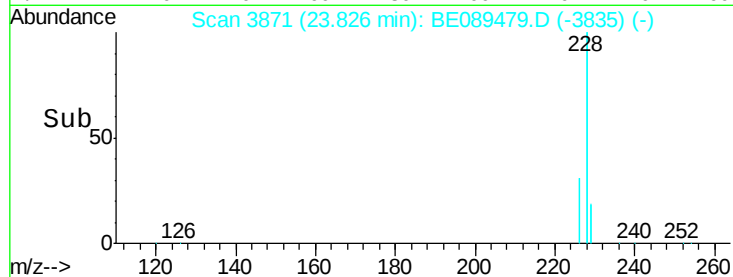
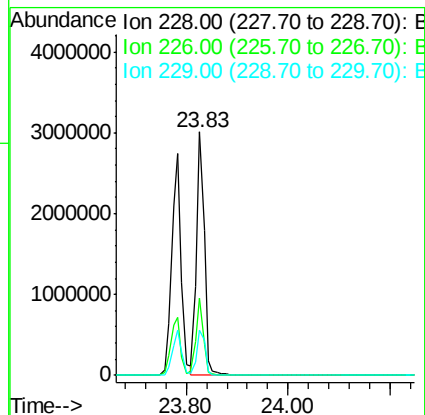
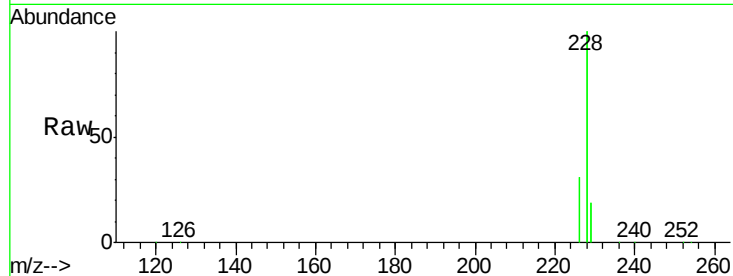
Tgt Ion:228 Resp: 3242274

Ion Ratio Lower Upper

228 100

226 31.5 21.8 32.8

229 18.5 16.2 24.2



#26

Indeno(1,2,3-cd)pyrene

Concen: 7.54 ng

RT: 26.99 min Scan# 4498

Delta R.T. 0.02 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

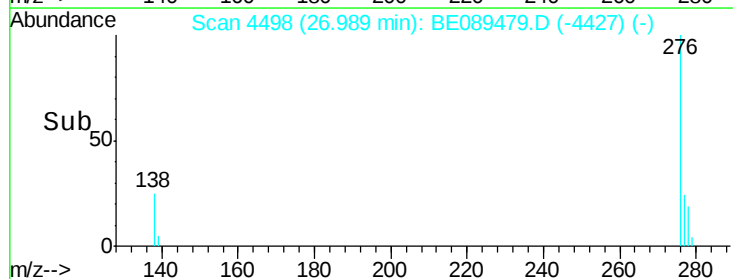
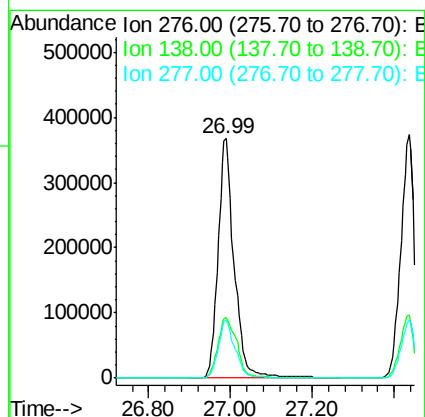
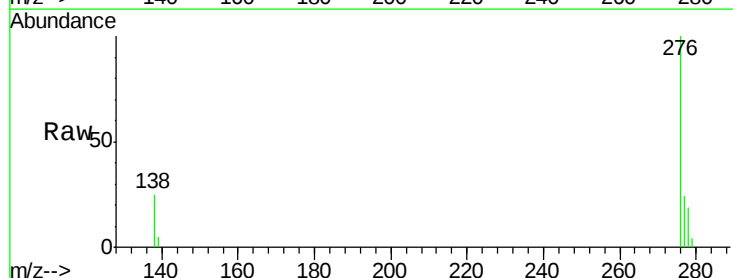
Tgt Ion:276 Resp: 1006791

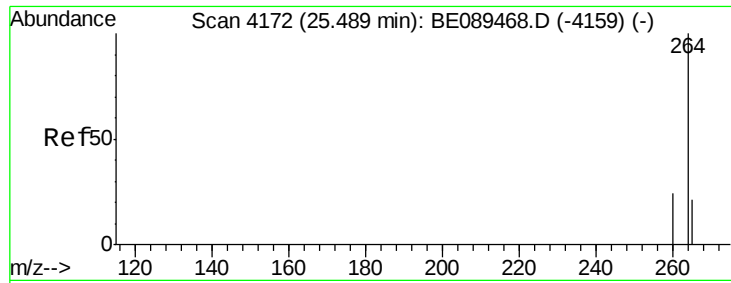
Ion Ratio Lower Upper

276 100

138 29.8 24.2 36.4

277 25.1 19.9 29.9

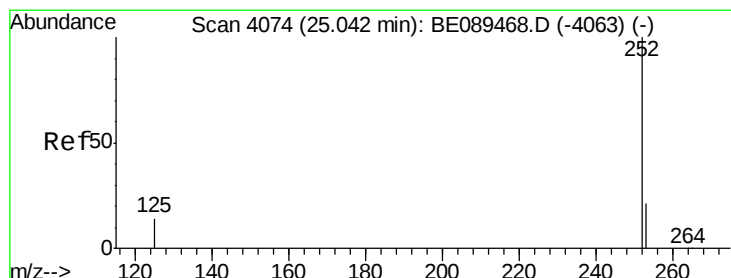
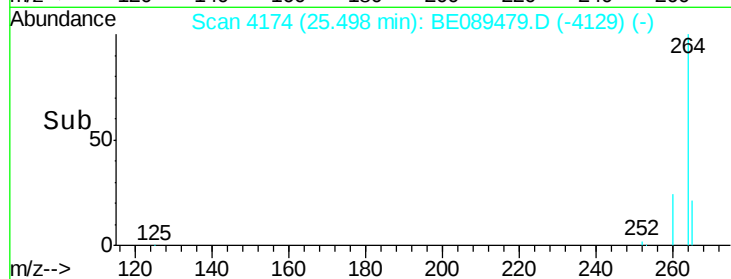
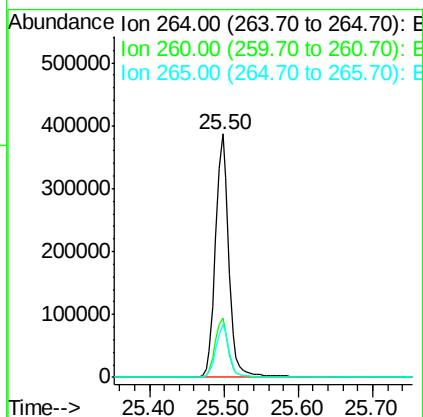
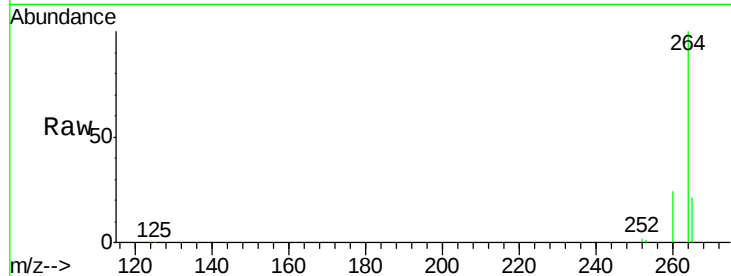




#27
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.50 min Scan# 4174
 Delta R.T. 0.01 min
 Lab File: BE089479.D
 Acq: 4 Feb 2015 00:46

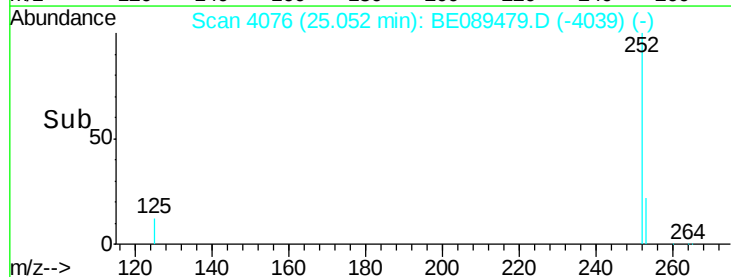
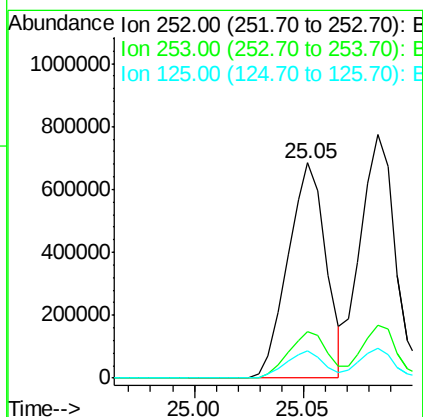
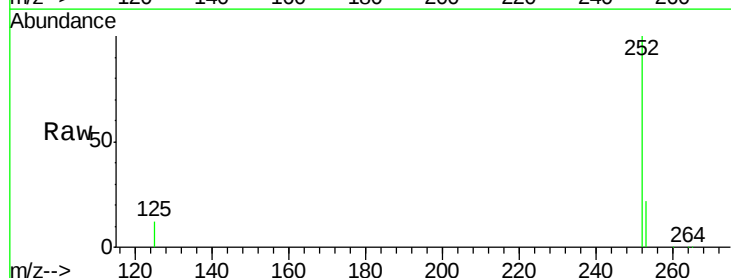
Instrument :
 BNA_E
 ClientSampleId :
 PB81408BS

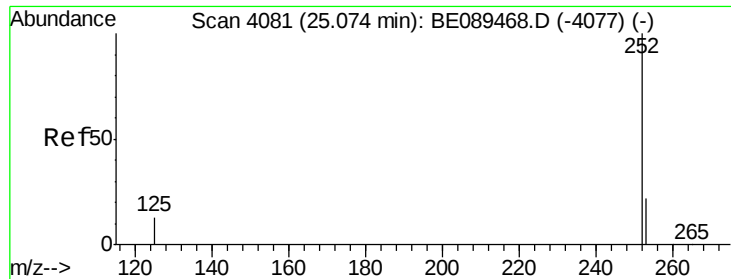
Tgt Ion: 264 Resp: 484514
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.1 28.7
 265 21.5 17.0 25.6



#28
 Benzo(b)fluoranthene
 Concen: 7.46 ng
 RT: 25.05 min Scan# 4076
 Delta R.T. 0.01 min
 Lab File: BE089479.D
 Acq: 4 Feb 2015 00:46

Tgt Ion: 252 Resp: 826195
 Ion Ratio Lower Upper
 252 100
 253 21.8 17.4 26.2
 125 12.4 11.3 16.9





#29

Benzo(k)fluoranthene

Concen: 7.23 ng

RT: 25.08 min Scan# 4083

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS

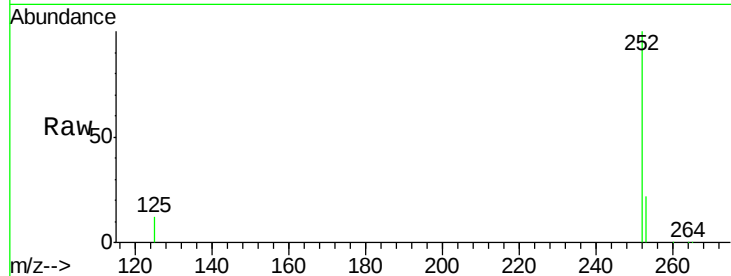
Tgt Ion:252 Resp: 908178

Ion Ratio Lower Upper

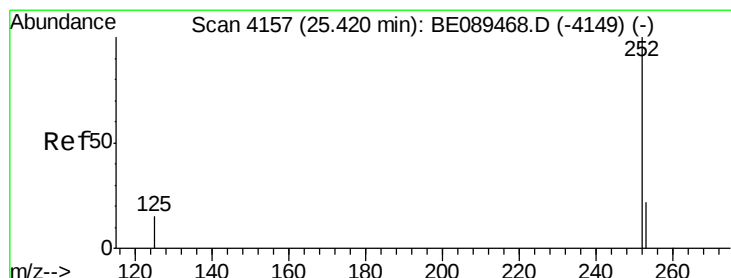
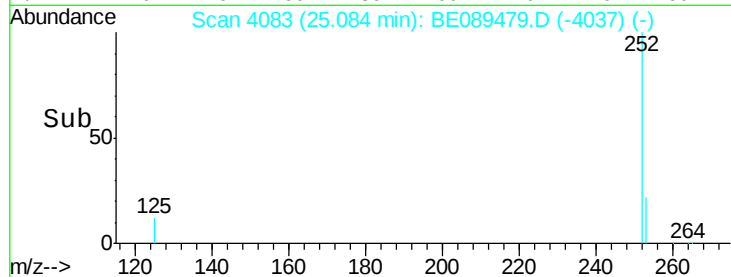
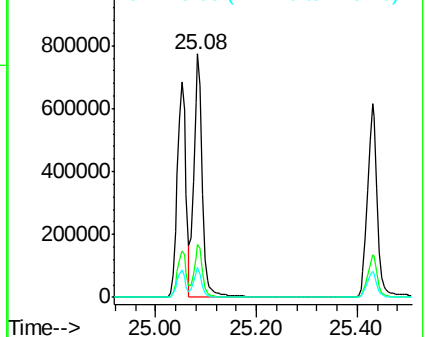
252 100

253 21.7 17.9 26.9

125 12.4 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: 7.76 ng

RT: 25.43 min Scan# 4159

Delta R.T. 0.01 min

Lab File: BE089479.D

Acq: 4 Feb 2015 00:46

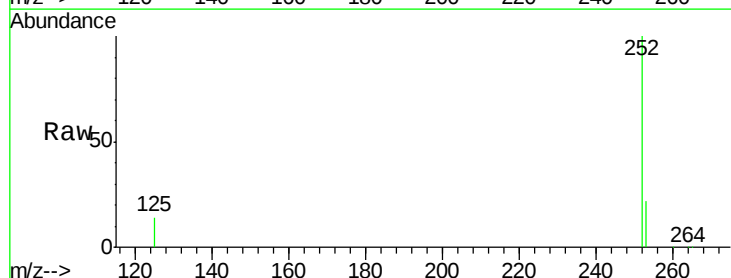
Tgt Ion:252 Resp: 839855

Ion Ratio Lower Upper

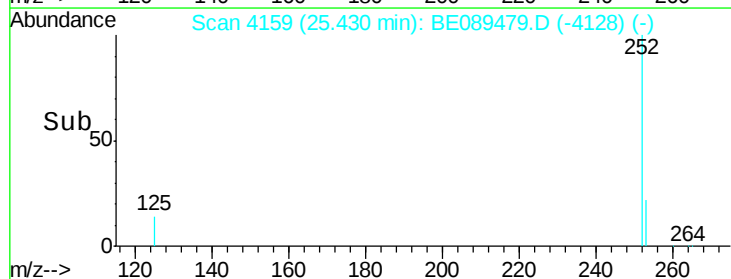
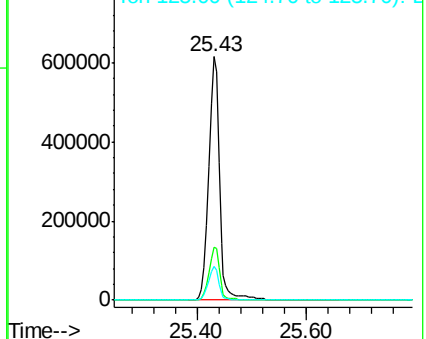
252 100

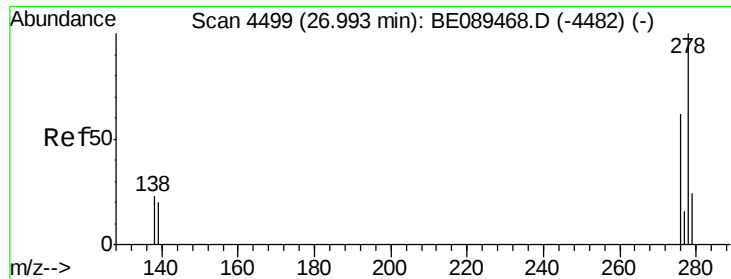
253 21.8 18.2 27.2

125 13.7 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: 7.76 ng

RT: 27.01 min Scan# 4503

Delta R.T. 0.02 min

Lab File: BE089479.D

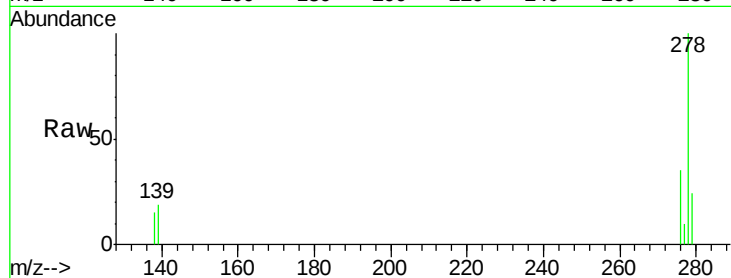
Acq: 4 Feb 2015 00:46

Instrument :

BNA_E

ClientSampleId :

PB81408BS



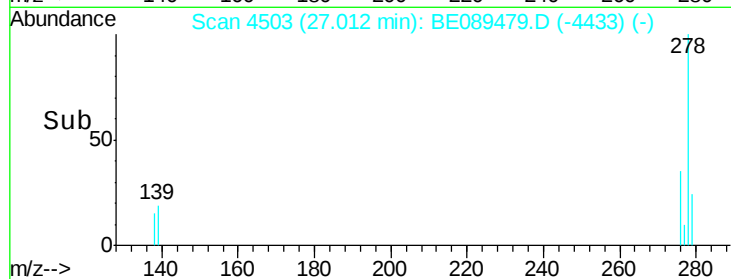
Tgt Ion: 278 Resp: 888913

Ion Ratio Lower Upper

278 100

139 18.8 16.8 25.2

279 23.8 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

