

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021715\
 Data File : BE089606.D
 Acq On : 17 Feb 2015 22:59
 Operator : TP/IZ
 Sample : PB81705BSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81705BSD

Quant Time: Feb 18 03:13:34 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 01:49:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	72082	5.00	ng	0.00
7) Naphthalene-d8	12.24	136	293960	5.00	ng	0.00
13) Acenaphthene-d10	16.42	164	152338	5.00	ng	0.00
17) Phenanthrene-d10	19.77	188	299061	5.00	ng	0.00
20) Chrysene-d12	23.66	240	347857	5.00	ng	0.00
27) Perylene-d12	25.34	264	290568	5.00	ng	0.00

System Monitoring Compounds						
3) 2-Fluorophenol	6.50	112	225171	12.00	ng	0.00
4) Phenol-d6	8.63	99	306074	12.39	ng	0.00
8) Nitrobenzene-d5	10.61	82	149912	9.22	ng	0.00
14) 2,4,6-Tribromophenol	18.32	330	58763	13.15	ng	0.00
15) 2-Fluorobiphenyl	14.88	172	362622	8.90	ng	0.00
22) Terphenyl-d14	22.30	244	473393	10.08	ng	0.00

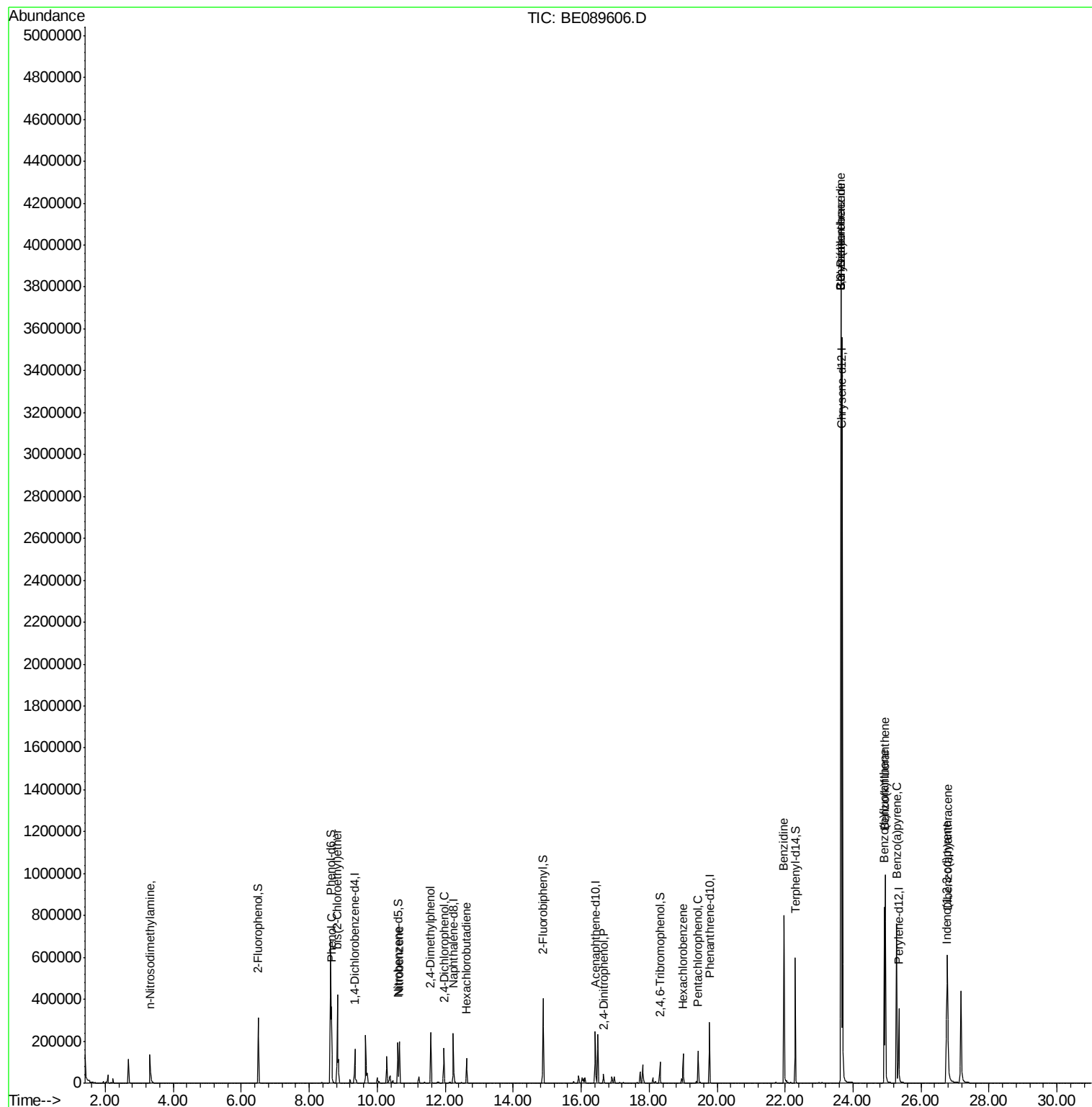
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.32	42	76295	8.01	ng	# 80
5) Phenol	8.66	94	228954	8.61	ng	92
6) bis(2-Chloroethyl)ether	8.83	93	188595	8.89	ng	# 97
9) Nitrobenzene	10.65	77	172418	8.80	ng	96
10) 2,4-Dimethylphenol	11.58	122	134856	8.91	ng	93
11) 2,4-Dichlorophenol	11.96	162	123564	10.15	ng	95
12) Hexachlorobutadiene	12.63	225	72680	8.00	ng	100
16) 2,4-Dinitrophenol	16.66	184	30306	17.86	ng	# 71
18) Hexachlorobenzene	19.00	284	113351	8.79	ng	89
19) Pentachlorophenol	19.44	266	87867	17.16	ng	97
21) Benzidine	21.97	184	708496	15.99	ng	99
23) Benzo(a)anthracene	23.64	228	3101000	10.46	ng	96
24) 3,3'-Dichlorobenzidine	23.63	252	277907	9.98	ng	# 96
25) Chrysene	23.64	228	3101000	9.13	ng	99
26) Indeno(1,2,3-cd)pyrene	26.75	276	723464	8.83	ng	# 99
28) Benzo(b)fluoranthene	24.92	252	678804	9.82	ng	99
29) Benzo(k)fluoranthene	24.95	252	758075	8.27	ng	98
30) Benzo(a)pyrene	25.28	252	640533	9.54	ng	98
31) Dibenzo(a,h)anthracene	26.78	278	603908	9.21	ng	100

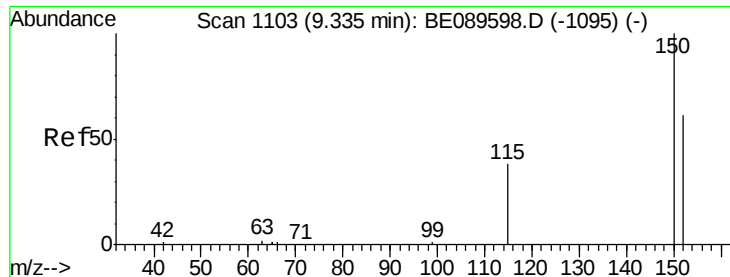
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1104

Delta R.T. 0.01 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

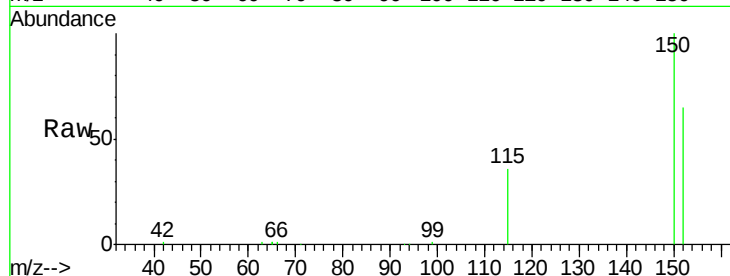
Tgt Ion:152 Resp: 72082

Ion Ratio Lower Upper

152 100

150 153.2 130.7 196.1

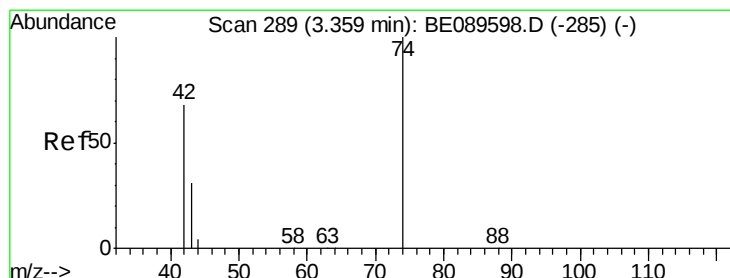
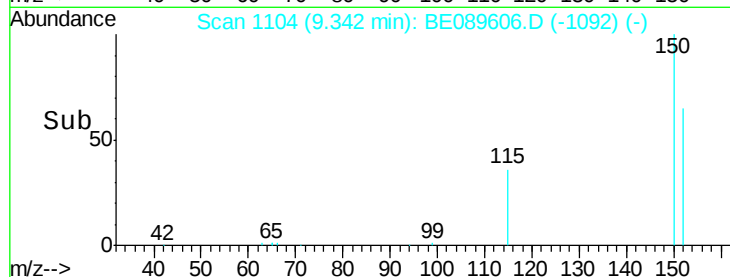
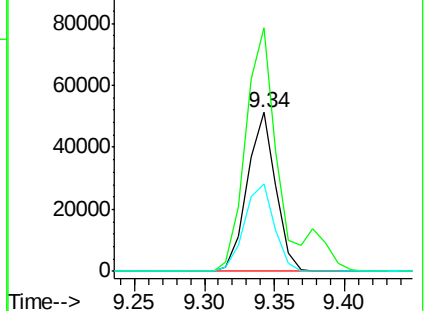
115 55.4 49.6 74.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

n-Nitrosodimethylamine

Concen: 8.01 ng

RT: 3.32 min Scan# 283

Delta R.T. -0.04 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

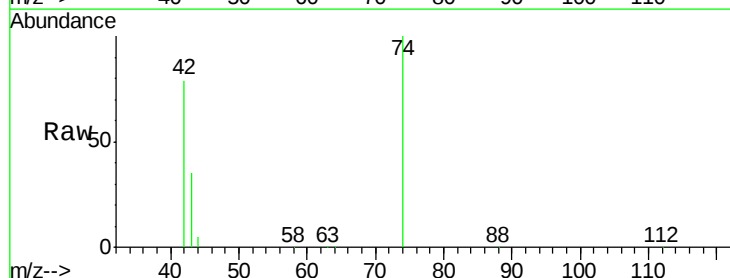
Tgt Ion: 42 Resp: 76295

Ion Ratio Lower Upper

42 100

74 127.0 114.6 171.8

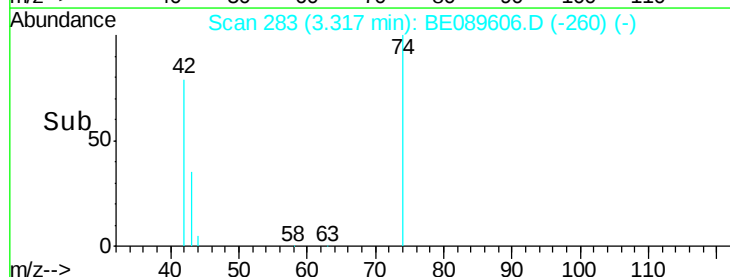
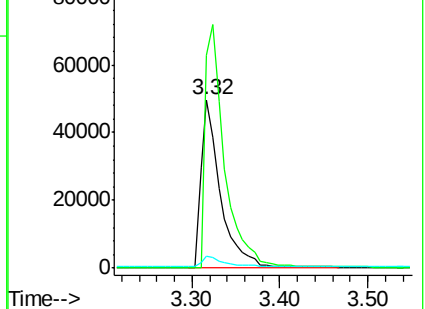
44 6.8 27.5 41.3#

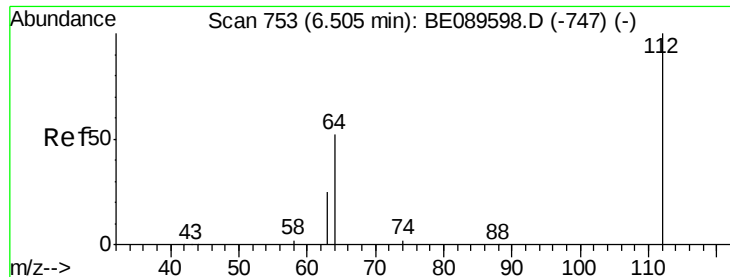


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

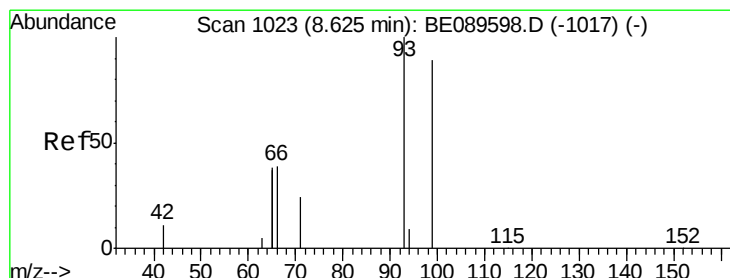
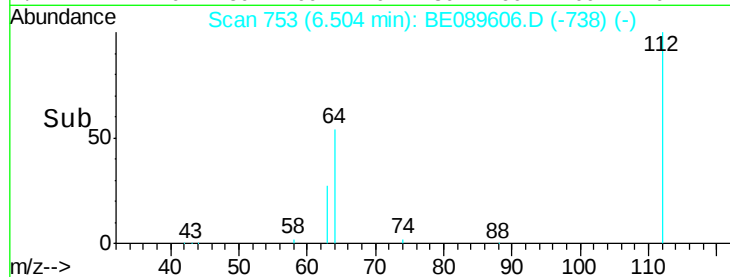
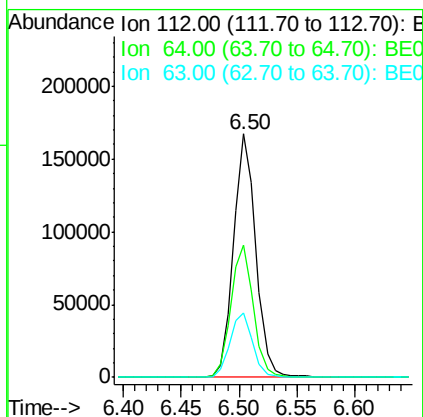
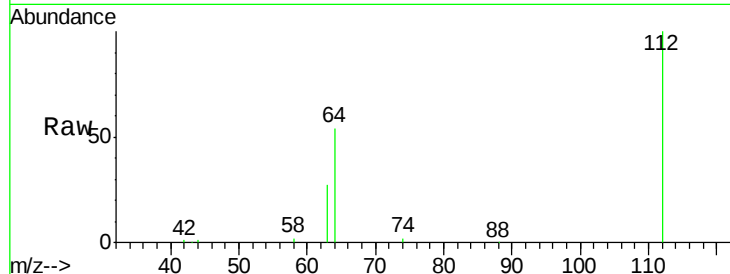




#3
 2-Fluorophenol
 Concen: 12.00 ng
 RT: 6.50 min Scan# 753
 Delta R.T. -0.00 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

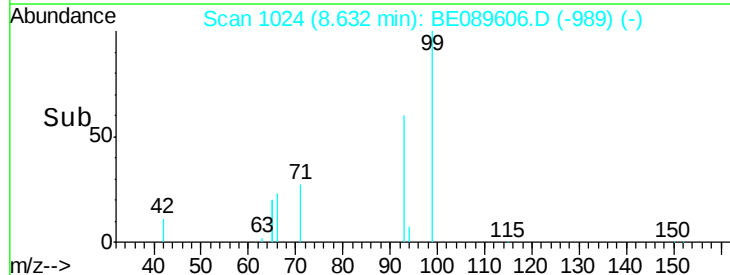
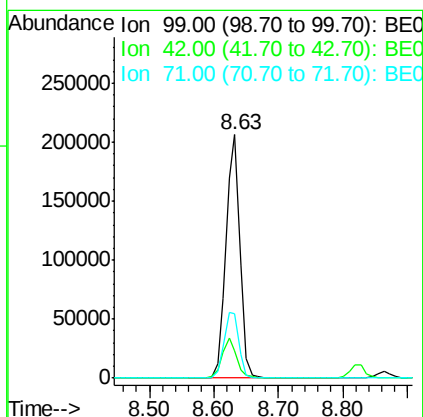
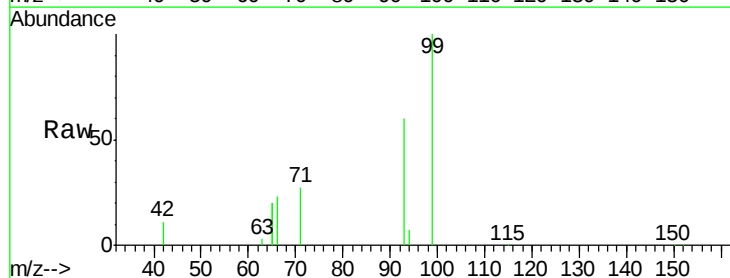
Instrument :
 BNA_E
 ClientSampleId :
 PB81705BSD

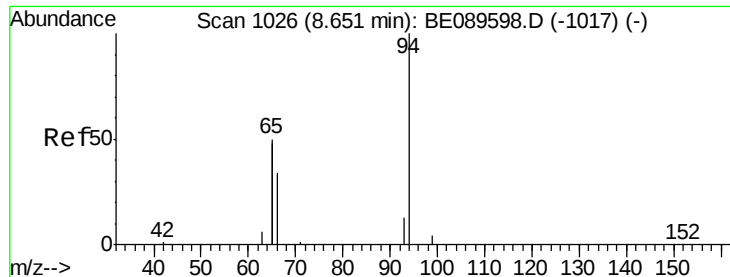
Tgt Ion: 112 Resp: 225171
 Ion Ratio Lower Upper
 112 100
 64 54.2 41.7 62.5
 63 26.6 20.3 30.5



#4
 Phenol-d6
 Concen: 12.39 ng
 RT: 8.63 min Scan# 1024
 Delta R.T. 0.01 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

Tgt Ion: 99 Resp: 306074
 Ion Ratio Lower Upper
 99 100
 42 11.3 10.8 16.2
 71 26.6 21.8 32.6





#5

Phenol

Concen: 8.61 ng

RT: 8.66 min Scan# 1027

Delta R.T. 0.01 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

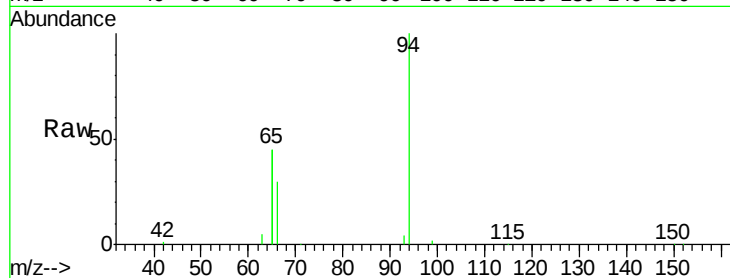
Tgt Ion: 94 Resp: 228954

Ion Ratio Lower Upper

94 100

65 89.8 78.6 118.6

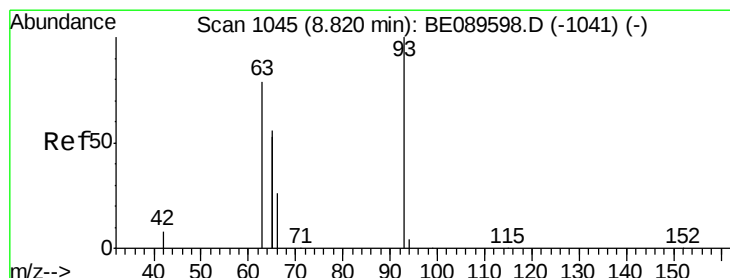
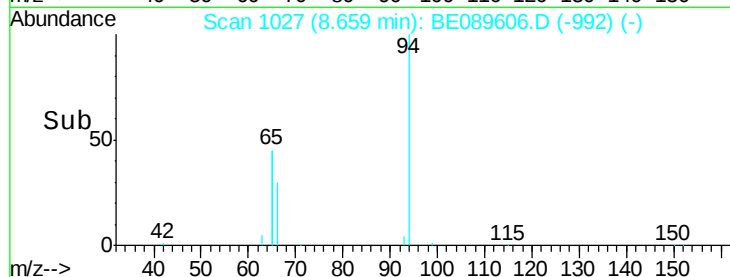
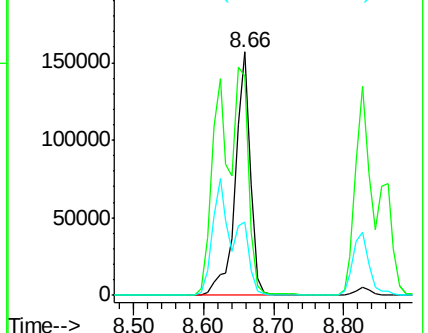
66 30.4 14.0 54.0



Abundance Ion 94.00 (93.70 to 94.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

Ion 66.00 (65.70 to 66.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 8.89 ng

RT: 8.83 min Scan# 1046

Delta R.T. 0.01 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

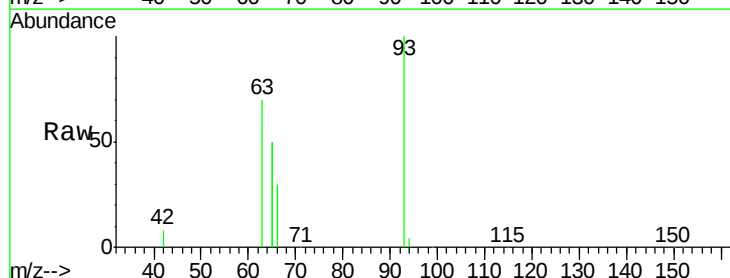
Tgt Ion: 93 Resp: 188595

Ion Ratio Lower Upper

93 100

63 90.5 74.6 112.0

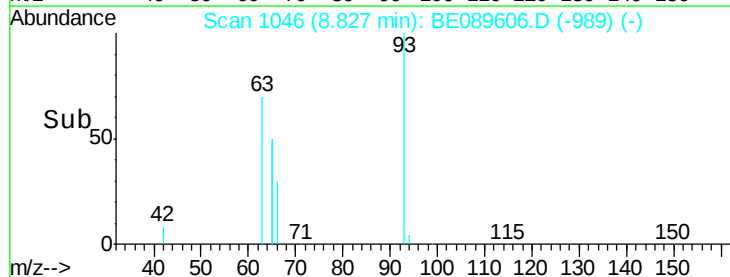
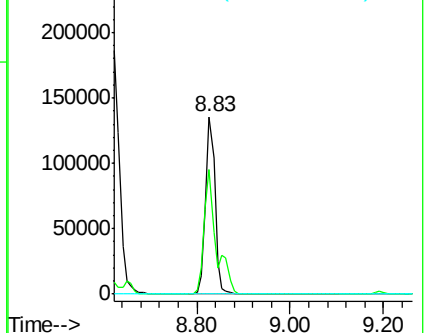
95 0.0 0.0 0.0

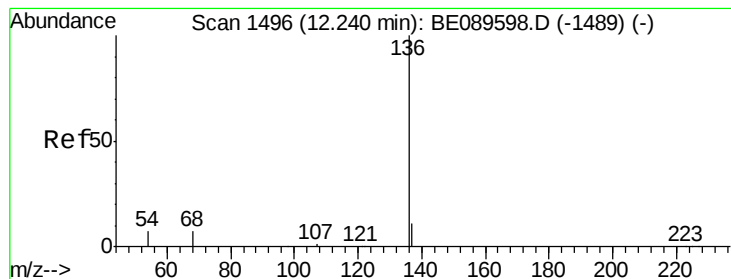


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE089606.D

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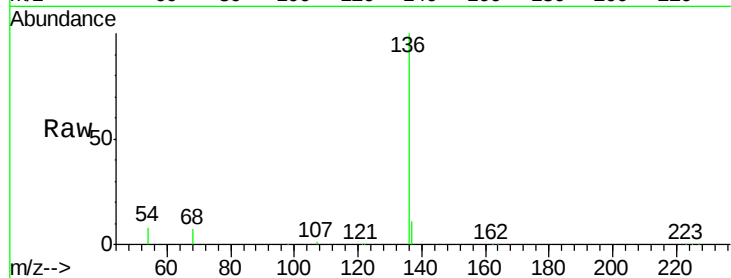
Tgt Ion:136 Resp: 293960

Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

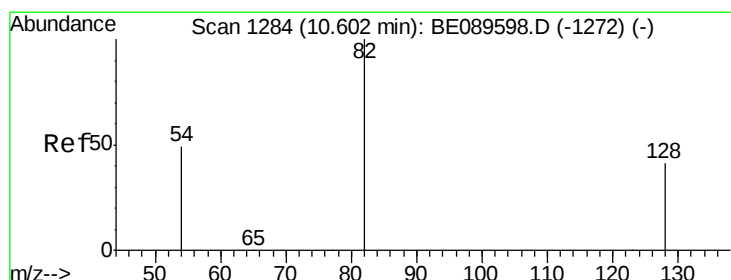
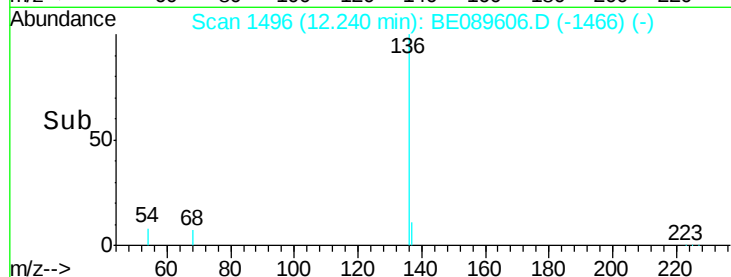
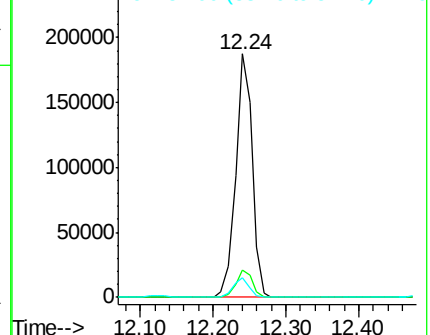
54 8.0 5.7 8.5



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: 9.22 ng

RT: 10.61 min Scan# 1285

Delta R.T. 0.00 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

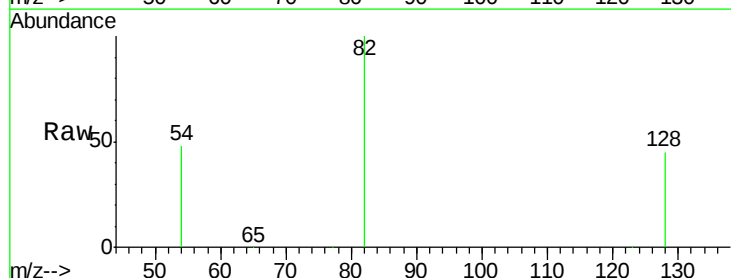
Tgt Ion: 82 Resp: 149912

Ion Ratio Lower Upper

82 100

128 45.1 33.2 49.8

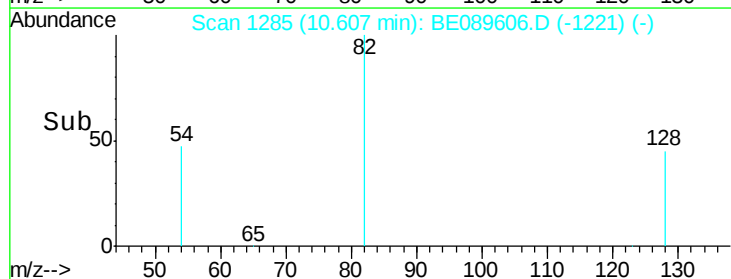
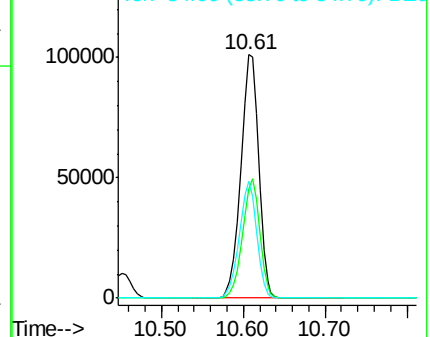
54 47.8 39.6 59.4

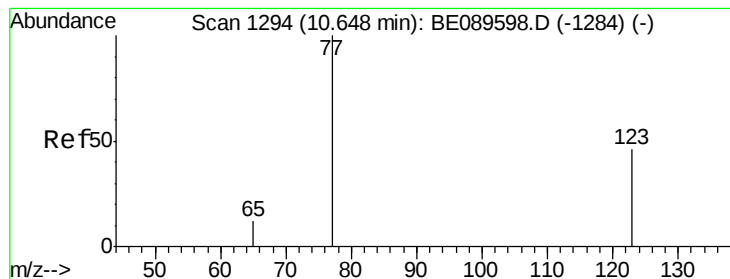


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 8.80 ng

RT: 10.65 min Scan# 1295

Delta R.T. 0.01 min

Lab File: BE089606.D

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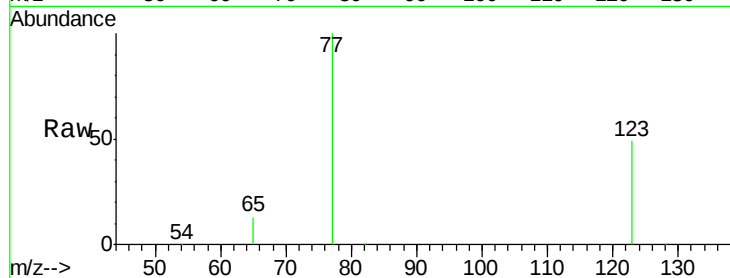
Tgt Ion: 77 Resp: 172418

Ion Ratio Lower Upper

77 100

123 49.2 36.5 54.7

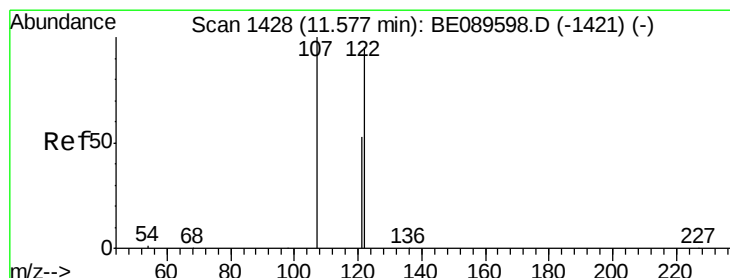
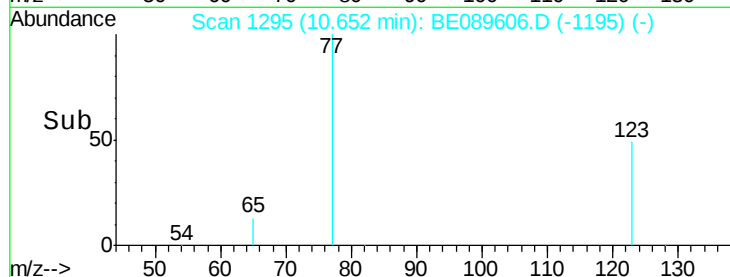
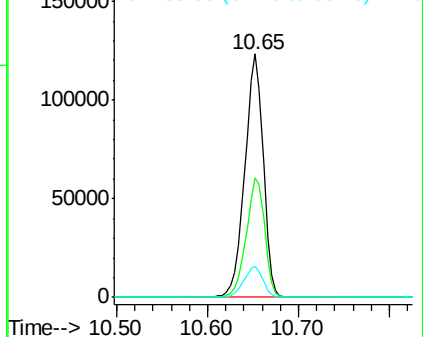
65 13.0 10.2 15.4



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: 8.91 ng

RT: 11.58 min Scan# 1428

Delta R.T. -0.00 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

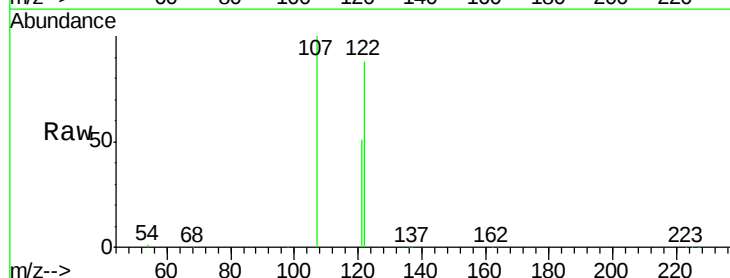
Tgt Ion: 122 Resp: 134856

Ion Ratio Lower Upper

122 100

107 114.1 83.9 125.9

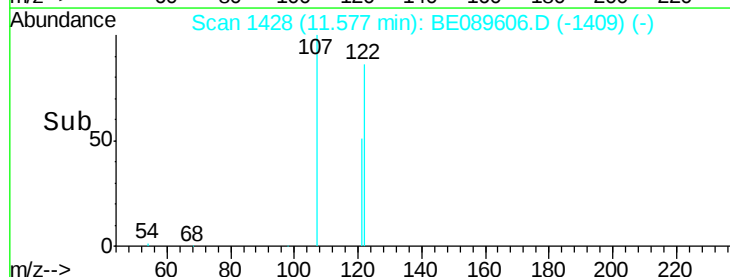
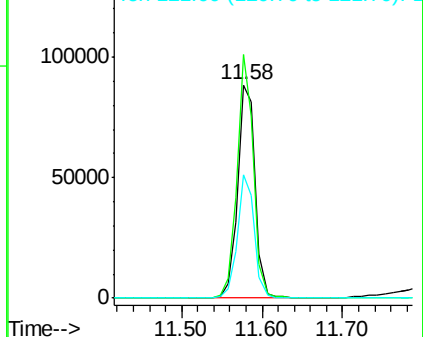
121 58.1 44.9 67.3

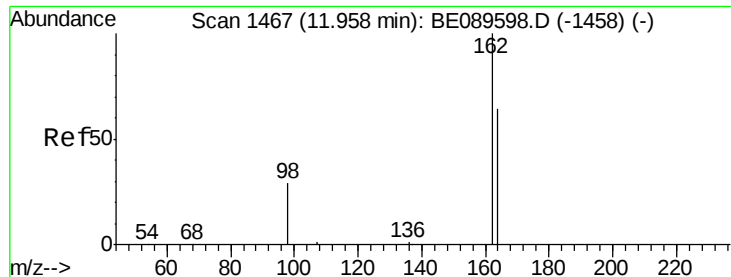


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

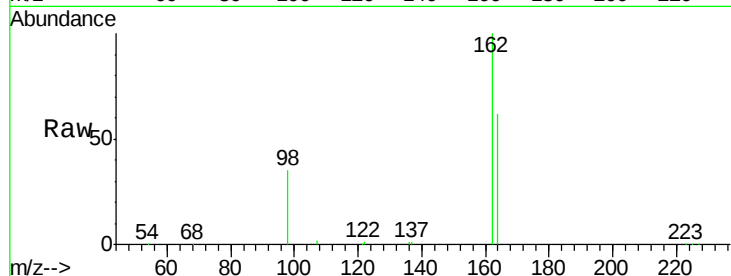




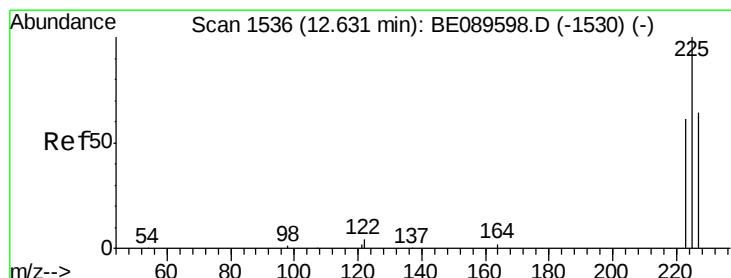
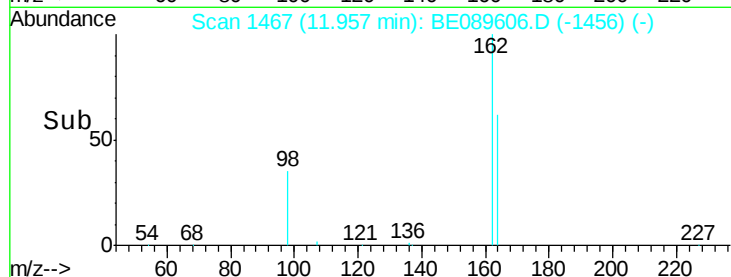
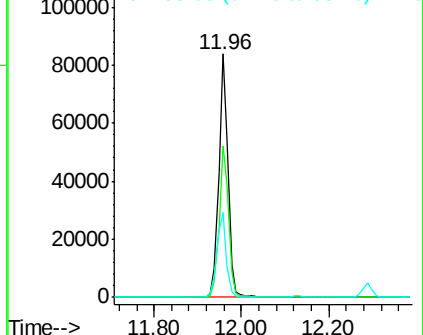
#11
 2,4-Dichlorophenol
 Concen: 10.15 ng
 RT: 11.96 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

Instrument :
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Tgt Ion:162 Resp: 123564
 Ion Ratio Lower Upper
 162 100
 164 62.4 44.7 84.7
 98 34.6 10.3 50.3

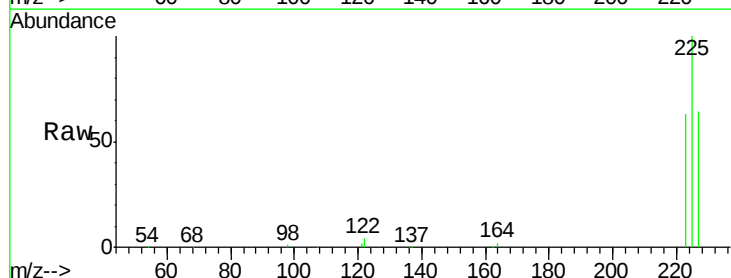


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): E

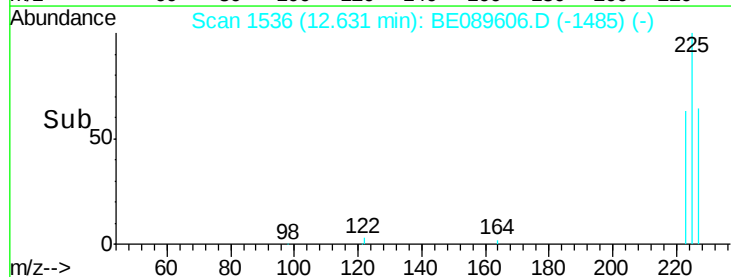
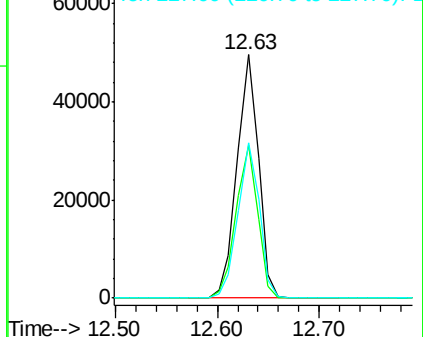


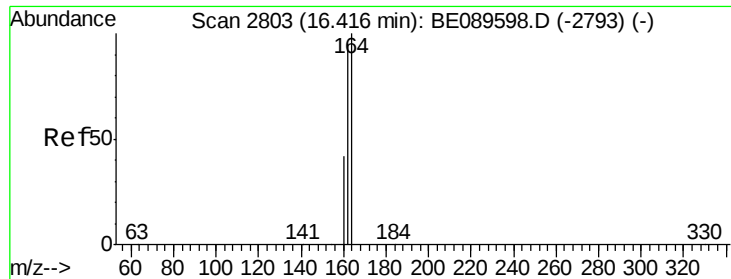
#12
 Hexachlorobutadiene
 Concen: 8.00 ng
 RT: 12.63 min Scan# 1536
 Delta R.T. -0.00 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

Tgt Ion:225 Resp: 72680
 Ion Ratio Lower Upper
 225 100
 223 63.0 50.3 75.5
 227 63.8 50.6 75.8



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

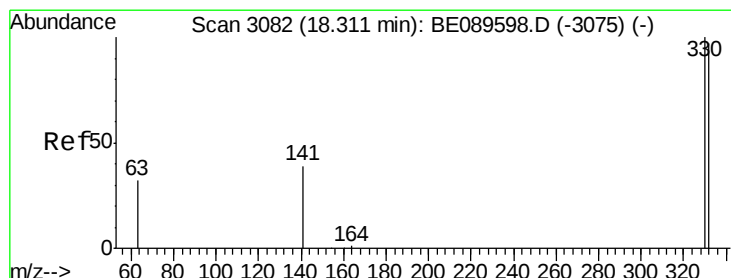
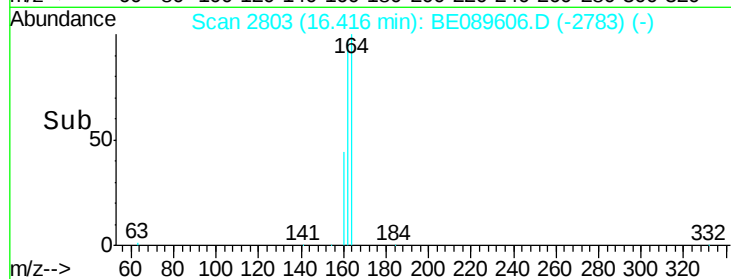
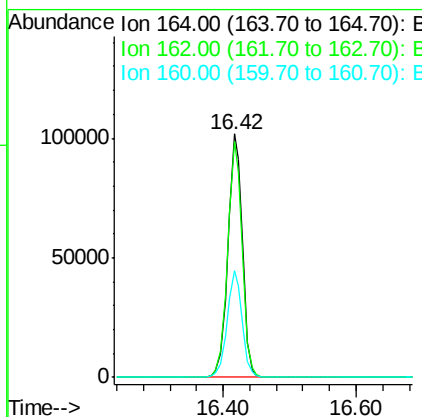
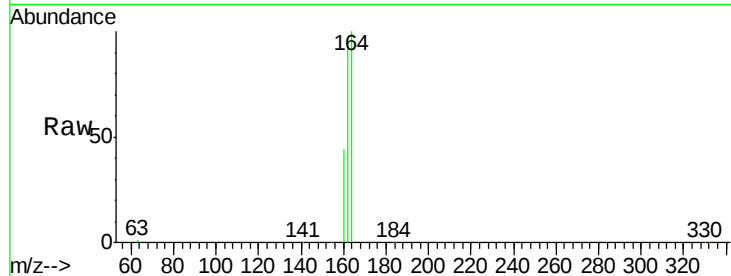




#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.42 min Scan# 2803
Delta R.T. 0.00 min
Lab File: BE089606.D
Acq: 17 Feb 2015 22:59

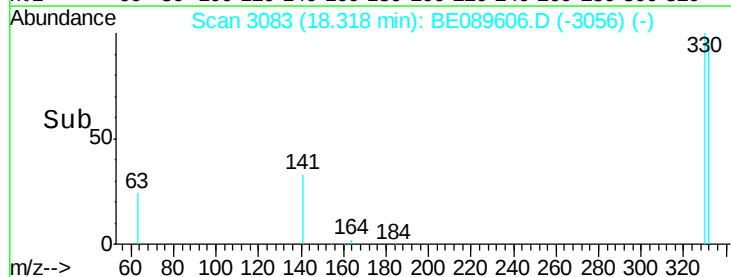
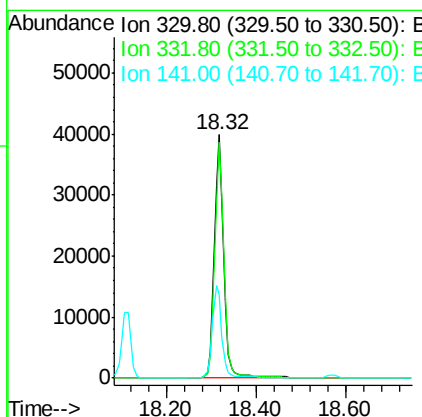
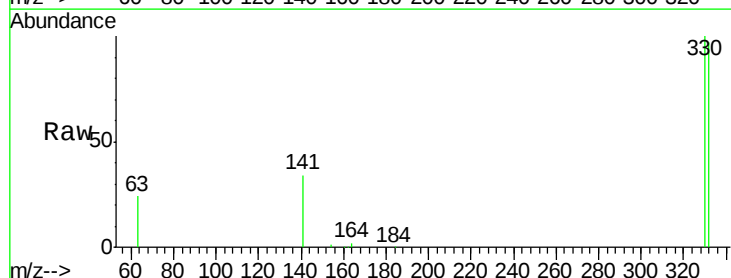
Instrument :
BNA_E
ClientSampleId :
PB81705BSD

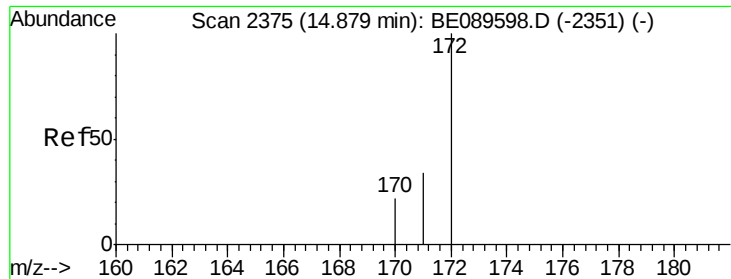
Tgt Ion:164 Resp: 152338
Ion Ratio Lower Upper
164 100
162 96.8 76.3 114.5
160 43.8 33.9 50.9



#14
2,4,6-Tribromophenol
Concen: 13.15 ng
RT: 18.32 min Scan# 3083
Delta R.T. 0.01 min
Lab File: BE089606.D
Acq: 17 Feb 2015 22:59

Tgt Ion:330 Resp: 58763
Ion Ratio Lower Upper
330 100
332 96.9 76.7 115.1
141 38.9 30.1 45.1

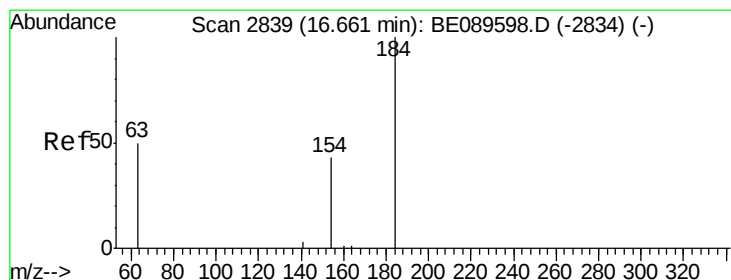
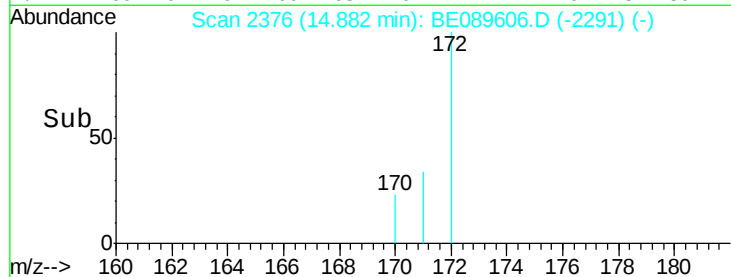
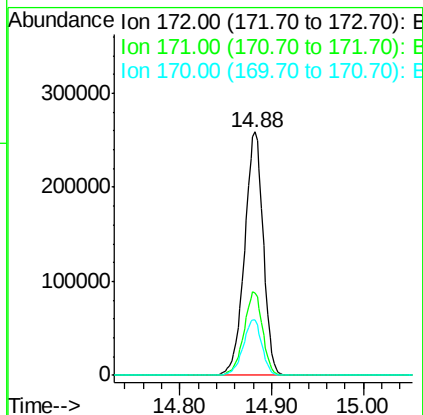
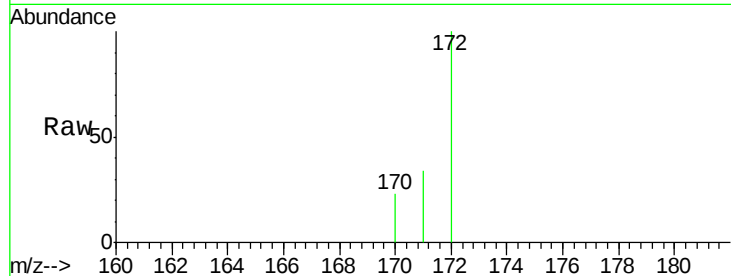




#15
2-Fluorobiphenyl
Concen: 8.90 ng
RT: 14.88 min Scan# 2376
Delta R.T. 0.00 min
Lab File: BE089606.D
Acq: 17 Feb 2015 22:59

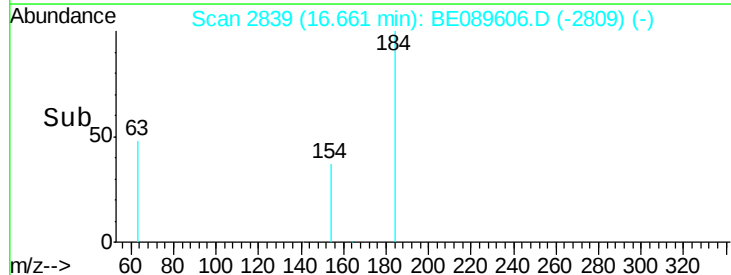
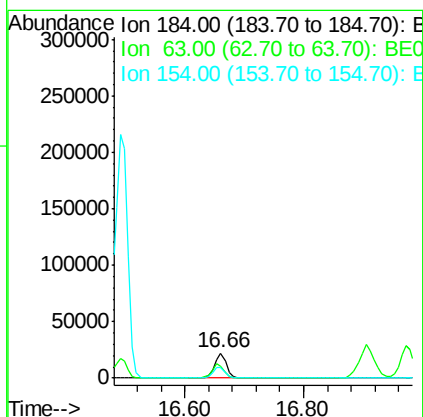
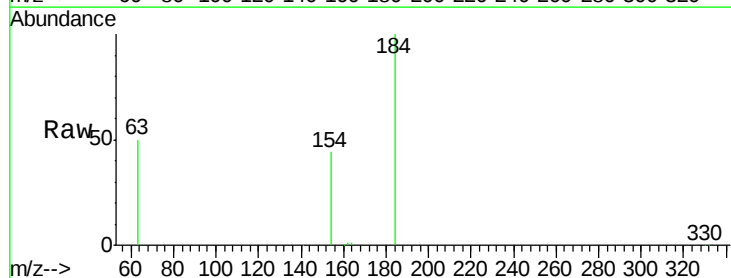
Instrument :
BNA_E
ClientSampleId :
PB81705BSD

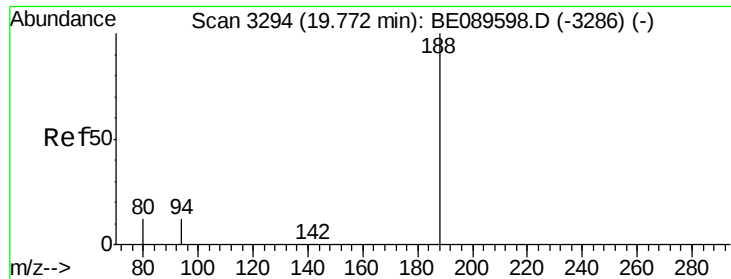
Tgt Ion:172 Resp: 362622
Ion Ratio Lower Upper
172 100
171 33.9 27.4 41.0
170 22.7 17.9 26.9



#16
2,4-Dinitrophenol
Concen: 17.86 ng
RT: 16.66 min Scan# 2839
Delta R.T. 0.00 min
Lab File: BE089606.D
Acq: 17 Feb 2015 22:59

Tgt Ion:184 Resp: 30306
Ion Ratio Lower Upper
184 100
63 49.8 61.0 91.4#
154 44.3 53.4 80.0#

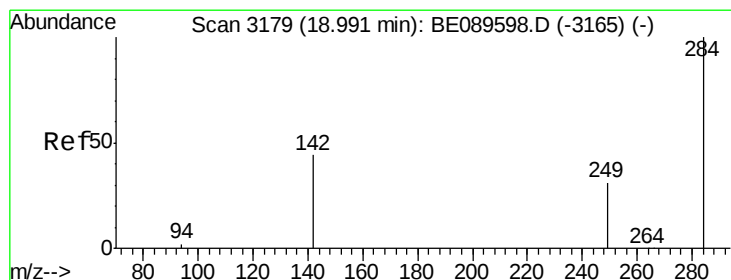
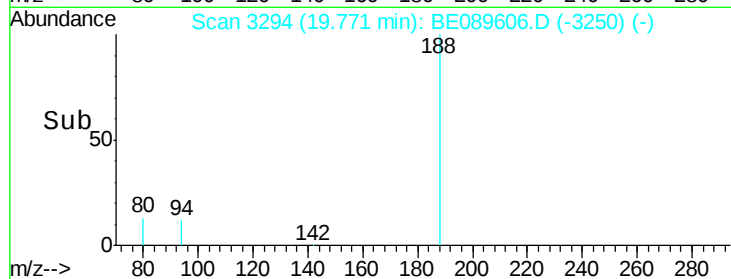
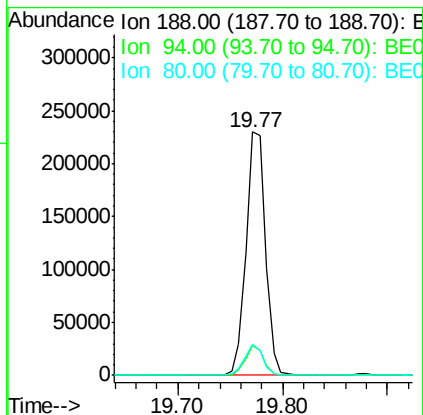
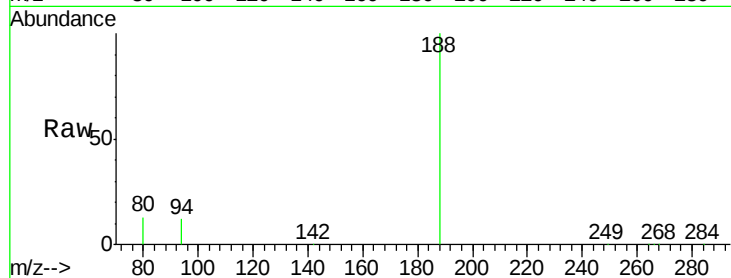




#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3294
Delta R.T. -0.00 min
Lab File: BE089606.D
Acq: 17 Feb 2015 22:59

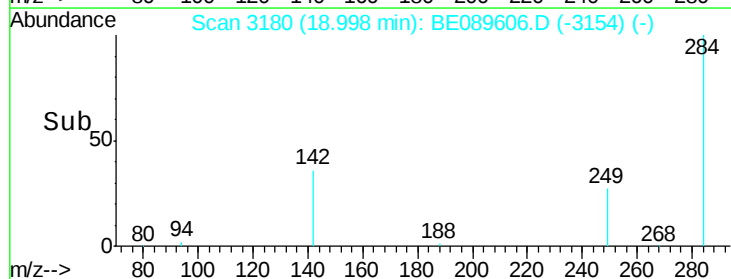
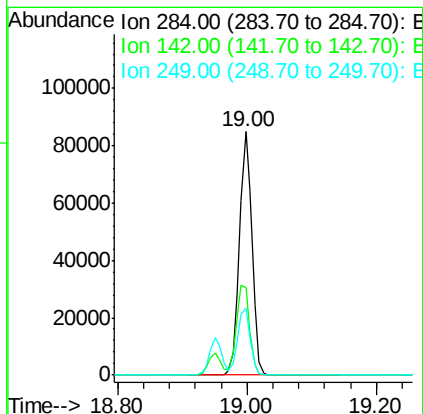
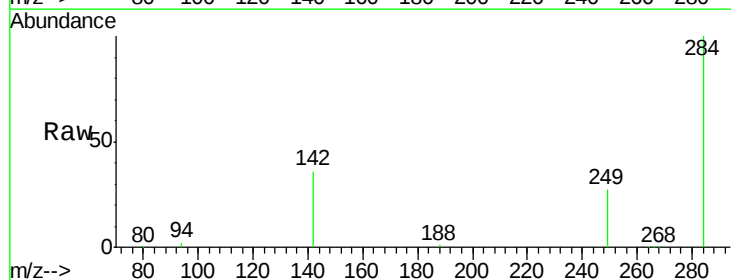
Instrument :
BNA_E
ClientSampleId :
PB81705BSD

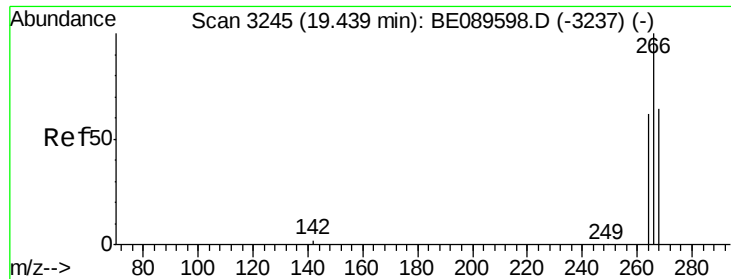
Tgt Ion:188 Resp: 299061
Ion Ratio Lower Upper
188 100
94 12.4 9.4 14.2
80 13.0 9.8 14.8



#18
Hexachlorobenzene
Concen: 8.79 ng
RT: 19.00 min Scan# 3180
Delta R.T. 0.01 min
Lab File: BE089606.D
Acq: 17 Feb 2015 22:59

Tgt Ion:284 Resp: 113351
Ion Ratio Lower Upper
284 100
142 36.1 35.6 53.4
249 27.3 25.2 37.8

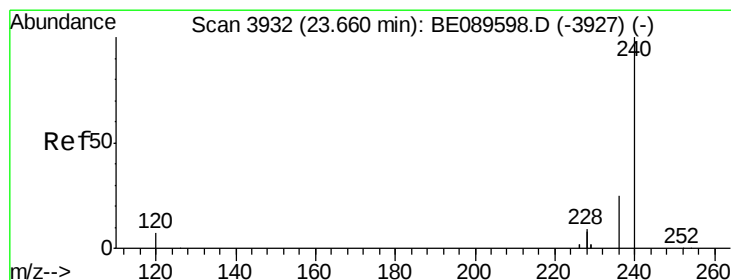
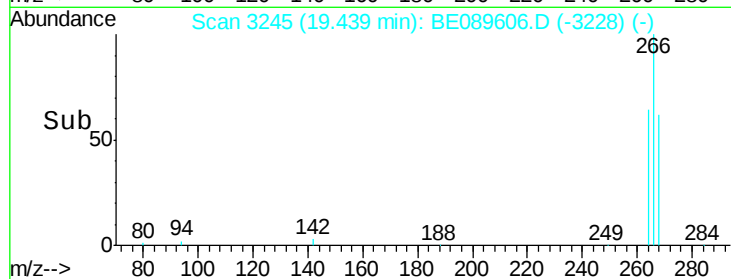
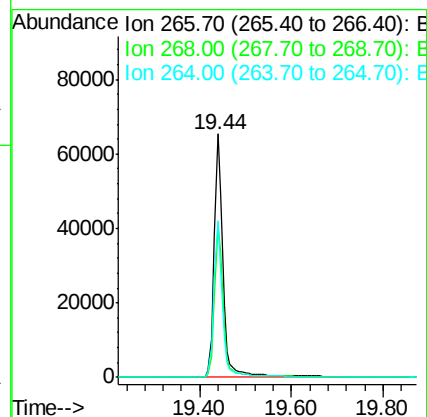
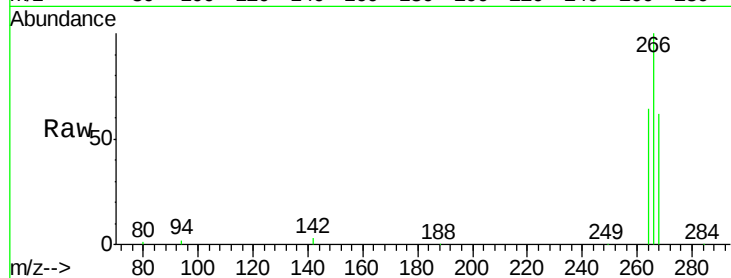




#19
 Pentachlorophenol
 Concen: 17.16 ng
 RT: 19.44 min Scan# 3245
 Delta R.T. 0.00 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

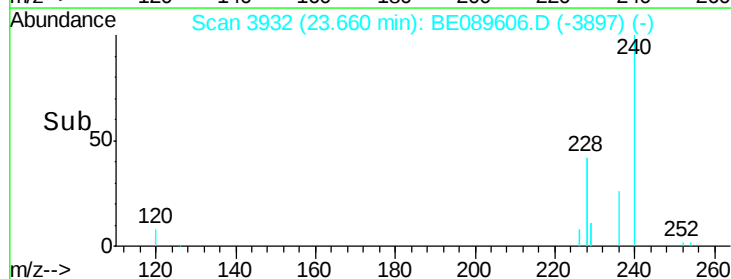
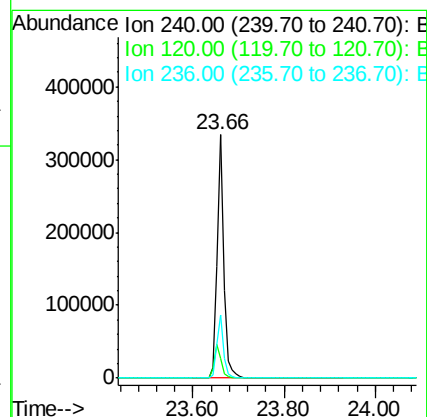
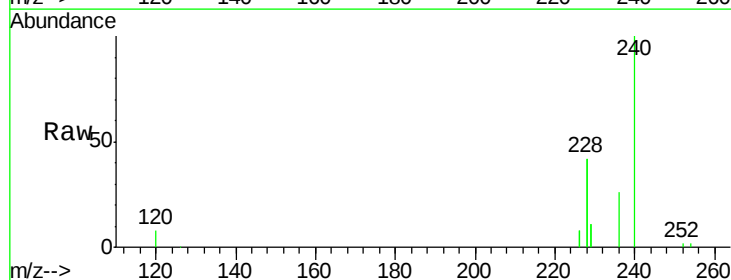
Instrument :
 BNA_E
 ClientSampleId :
 PB81705BSD

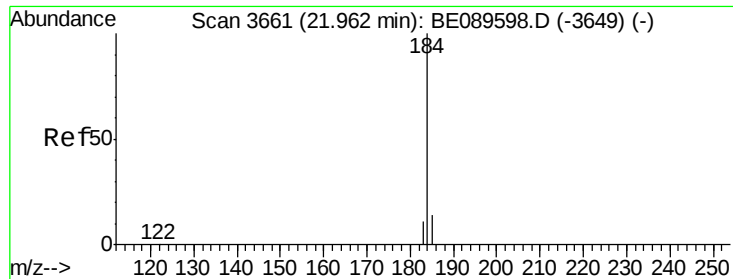
Tgt Ion:266 Resp: 87867
 Ion Ratio Lower Upper
 266 100
 268 62.4 53.0 79.4
 264 64.2 51.9 77.9



#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.66 min Scan# 3932
 Delta R.T. 0.00 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

Tgt Ion:240 Resp: 347857
 Ion Ratio Lower Upper
 240 100
 120 7.9 5.4 8.0
 236 26.0 19.8 29.6





#21

Benzidine

Concen: 15.99 ng

RT: 21.97 min Scan# 3662

Delta R.T. 0.01 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

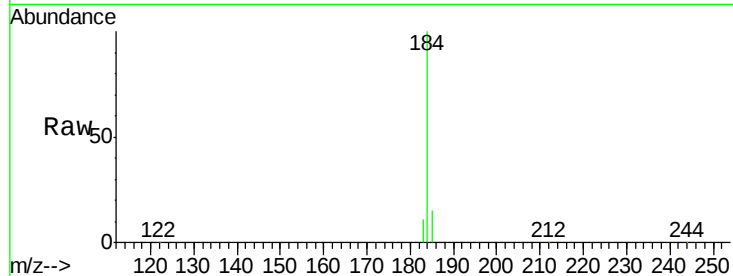
Tgt Ion:184 Resp: 708496

Ion Ratio Lower Upper

184 100

185 15.3 11.8 17.8

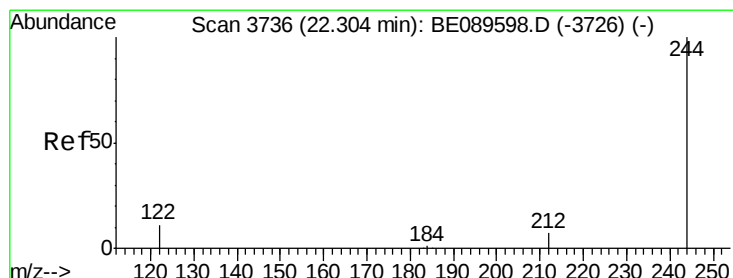
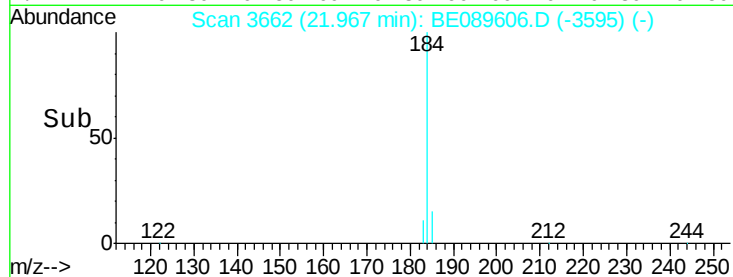
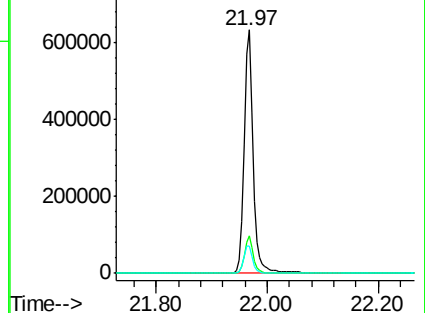
183 11.2 9.3 13.9



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: 10.08 ng

RT: 22.30 min Scan# 3736

Delta R.T. 0.00 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

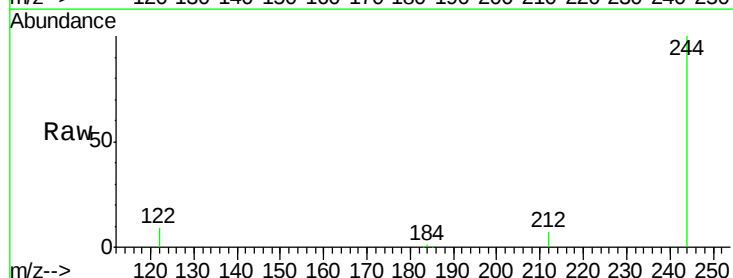
Tgt Ion:244 Resp: 473393

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

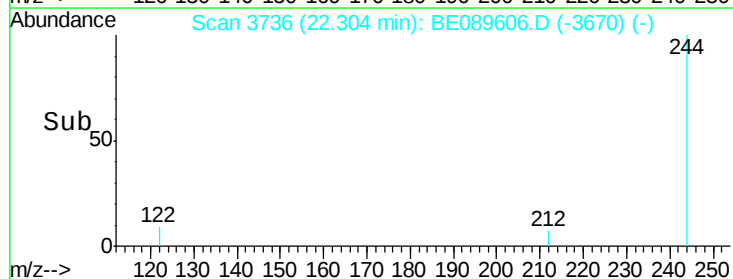
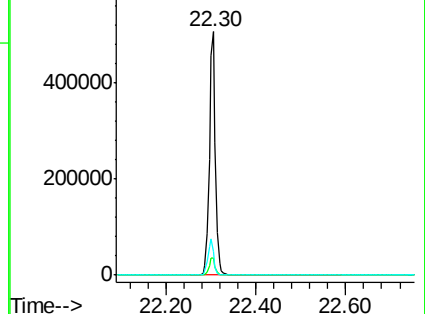
122 9.4 8.6 13.0

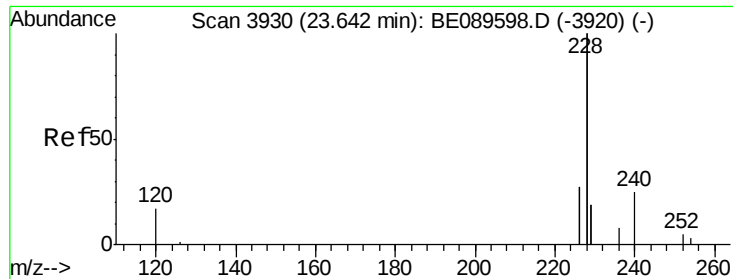


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 10.46 ng

RT: 23.64 min Scan# 3930

Delta R.T. 0.00 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

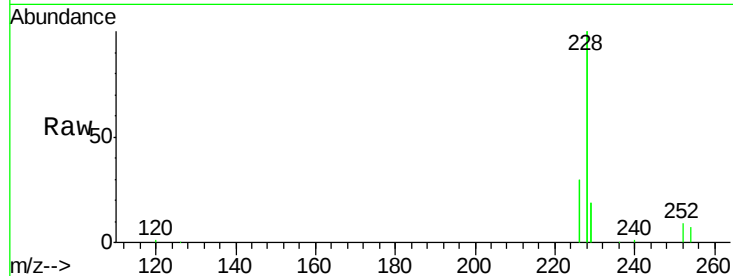
Tgt Ion:228 Resp: 3101000

Ion Ratio Lower Upper

228 100

226 29.7 21.5 32.3

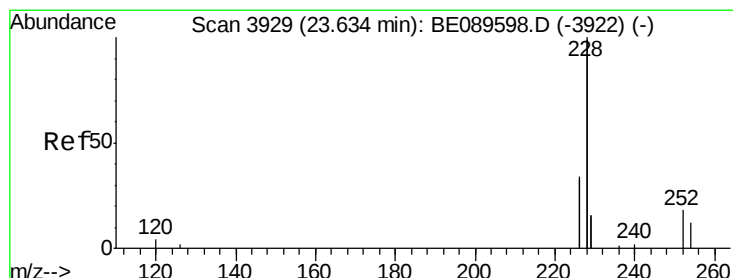
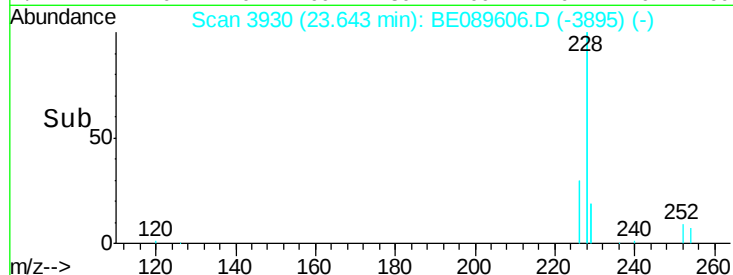
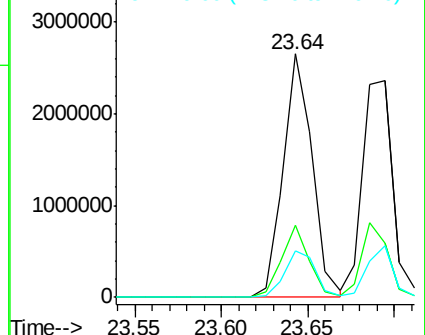
229 19.2 15.0 22.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

3,3'-Dichlorobenzidine

Concen: 9.98 ng

RT: 23.63 min Scan# 3929

Delta R.T. 0.00 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

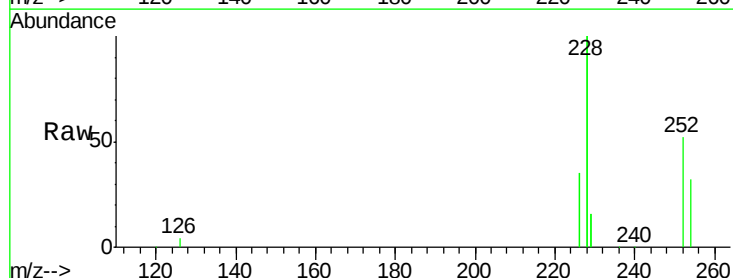
Tgt Ion:252 Resp: 277907

Ion Ratio Lower Upper

252 100

254 62.3 51.7 77.5

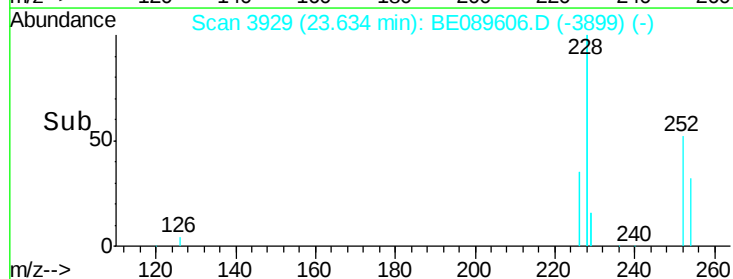
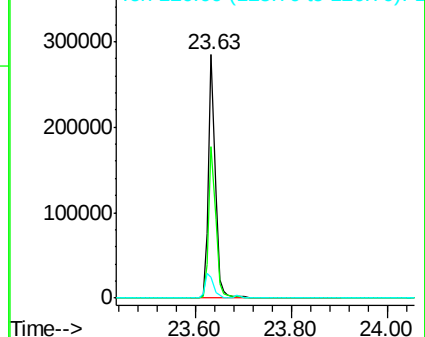
126 8.4 9.9 14.9#

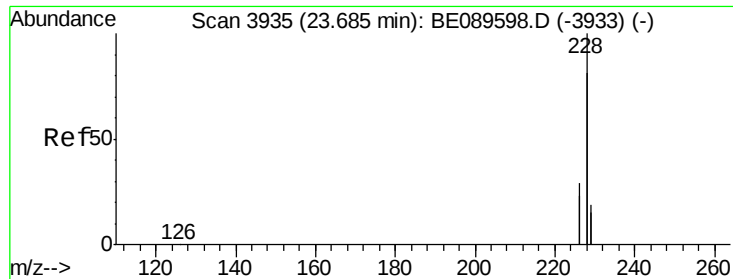


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 9.13 ng

RT: 23.64 min Scan# 3930

Delta R.T. -0.04 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

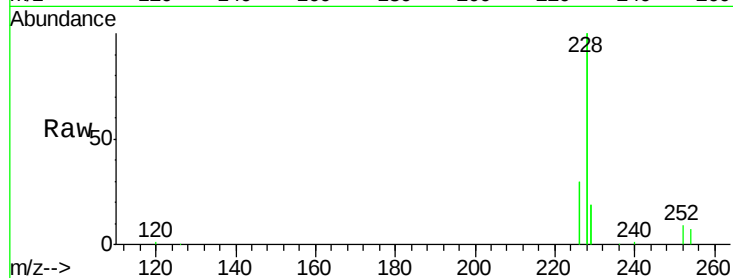
Tgt Ion:228 Resp: 3101000

Ion Ratio Lower Upper

228 100

226 29.7 23.4 35.2

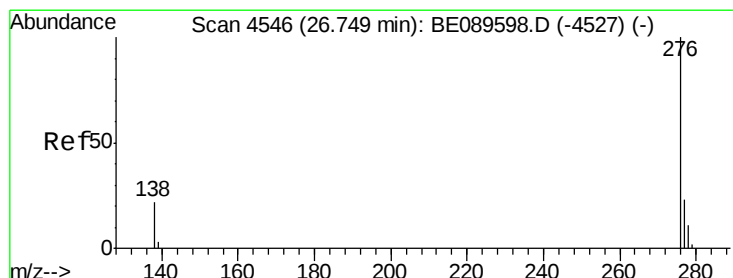
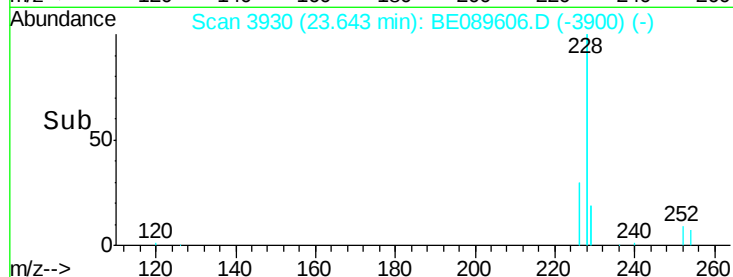
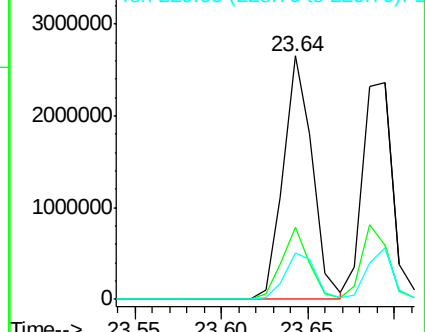
229 19.2 15.3 22.9



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 8.83 ng

RT: 26.75 min Scan# 4547

Delta R.T. 0.01 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

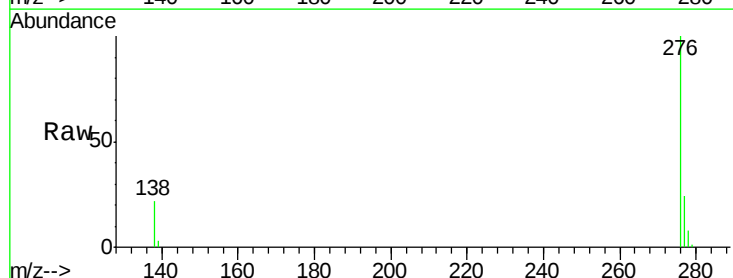
Tgt Ion:276 Resp: 723464

Ion Ratio Lower Upper

276 100

138 27.8 0.0 0.0#

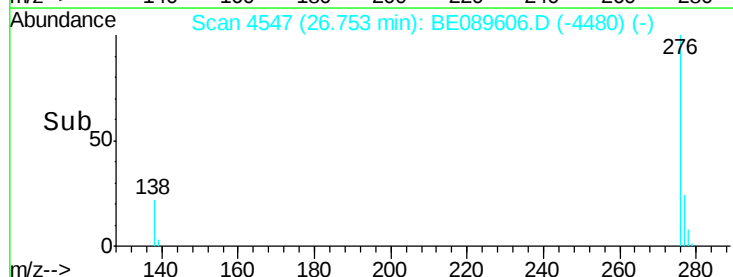
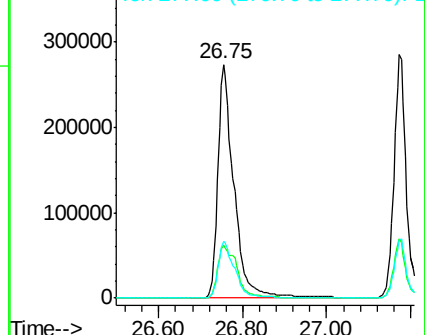
277 25.4 19.9 29.9

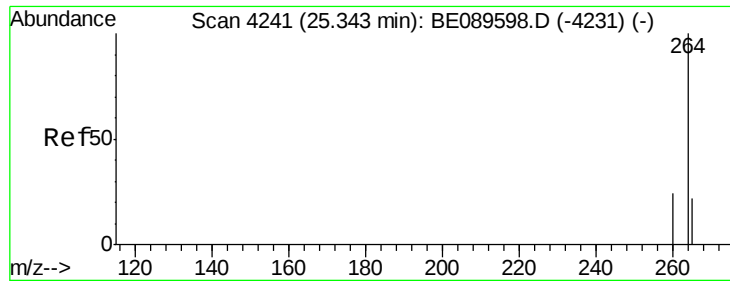


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

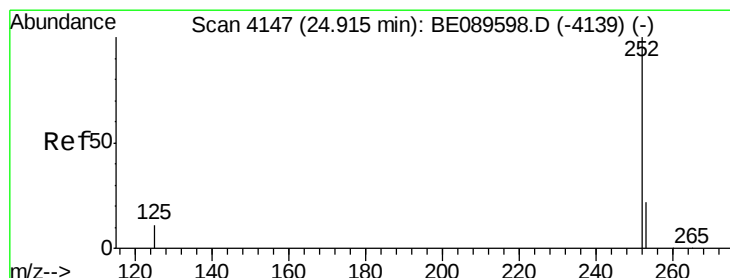
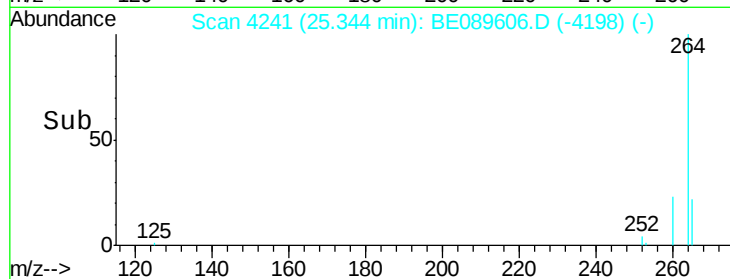
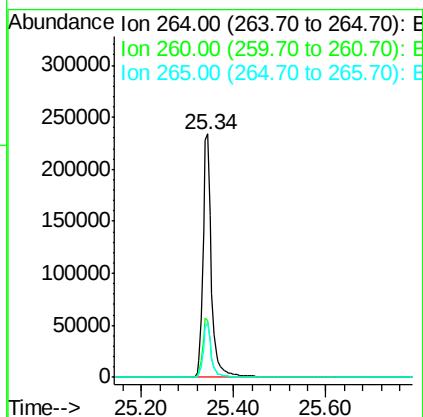
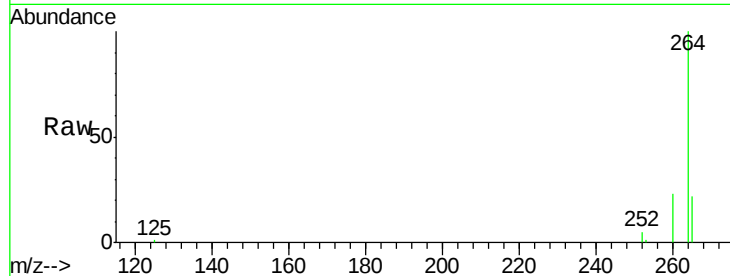




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4241
 Delta R.T. 0.00 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

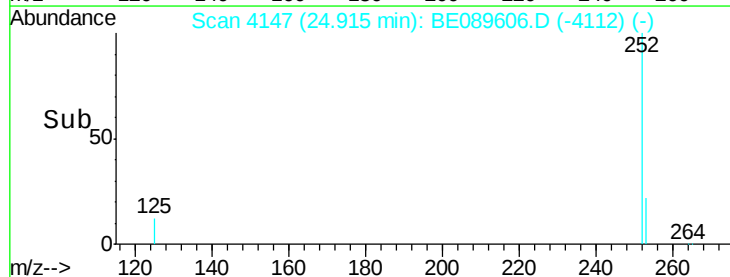
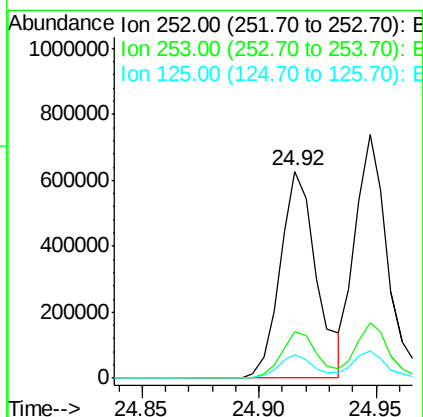
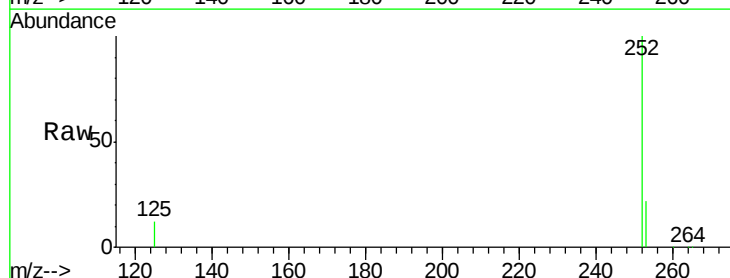
Instrument :
 BNA_E
 ClientSampleId :
 PB81705BSD

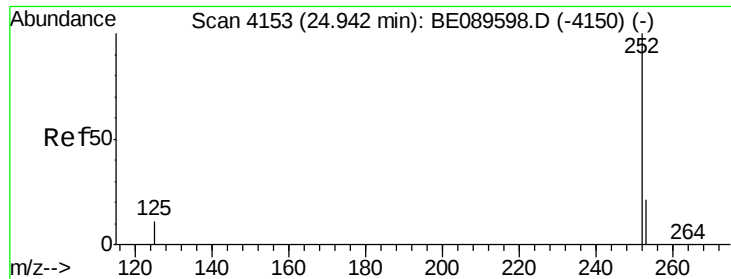
Tgt Ion: 264 Resp: 290568
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.0 28.4
 265 22.5 17.8 26.8



#28
Benzo(b)fluoranthene
 Concen: 9.82 ng
 RT: 24.92 min Scan# 4147
 Delta R.T. 0.00 min
 Lab File: BE089606.D
 Acq: 17 Feb 2015 22:59

Tgt Ion: 252 Resp: 678804
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.8 26.8
 125 11.5 8.9 13.3





#29

Benzo(k)fluoranthene

Concen: 8.27 ng

RT: 24.95 min Scan# 4154

Delta R.T. 0.01 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

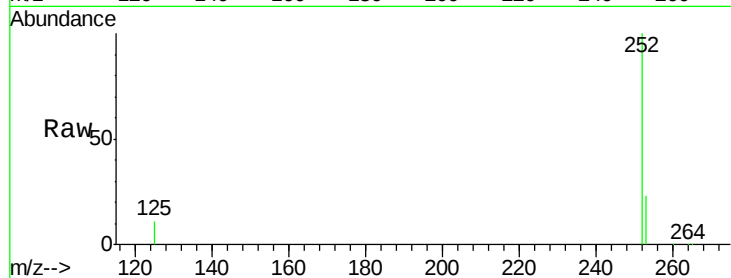
Tgt Ion:252 Resp: 758075

Ion Ratio Lower Upper

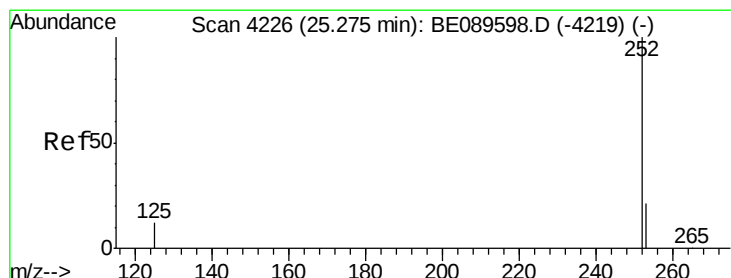
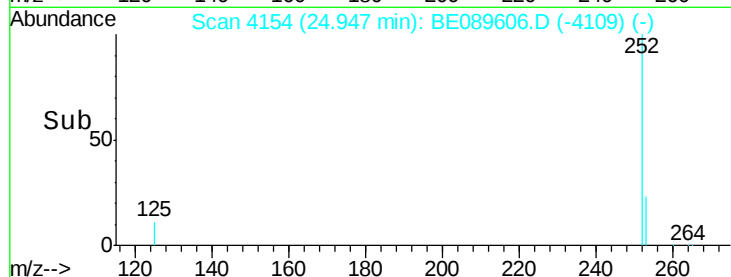
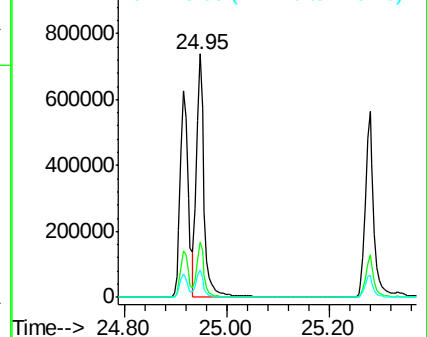
252 100

253 22.9 17.3 25.9

125 11.4 8.9 13.3



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#30

Benzo(a)pyrene

Concen: 9.54 ng

RT: 25.28 min Scan# 4227

Delta R.T. 0.01 min

Lab File: BE089606.D

Acq: 17 Feb 2015 22:59

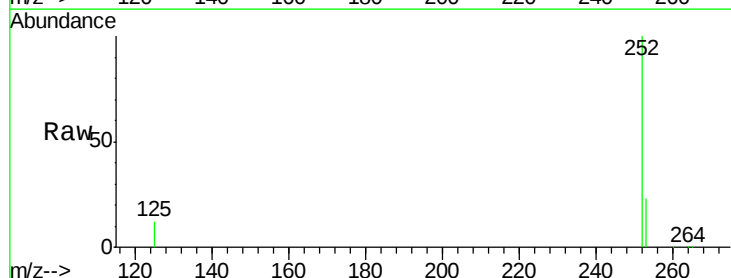
Tgt Ion:252 Resp: 640533

Ion Ratio Lower Upper

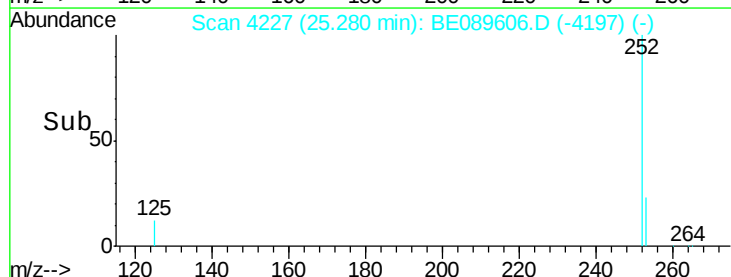
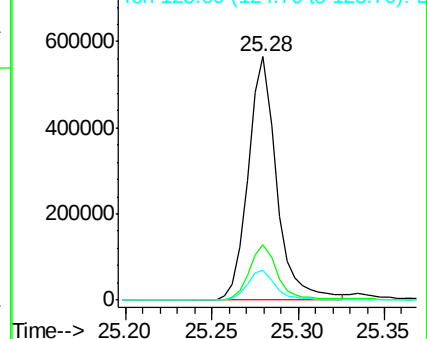
252 100

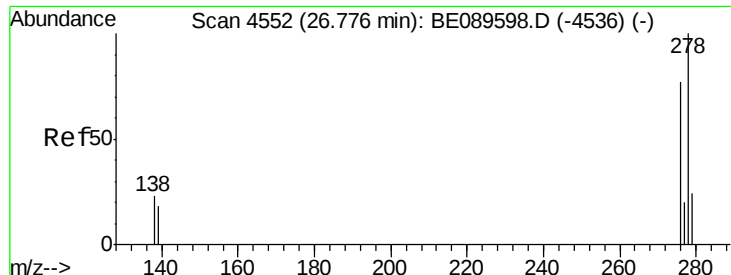
253 22.9 17.1 25.7

125 12.1 9.8 14.8



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





#31

Dibenzo(a,h)anthracene

Concen: 9.21 ng

RT: 26.78 min Scan# 4553

Delta R.T. 0.00 min

Lab File: BE089606.D

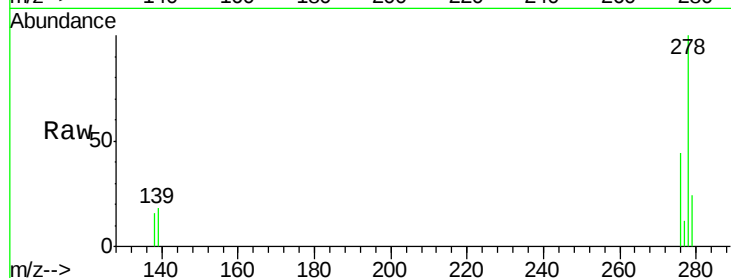
Acq: 17 Feb 2015 22:59

Instrument :

BNA_E

ClientSampleId :

PB81705BSD



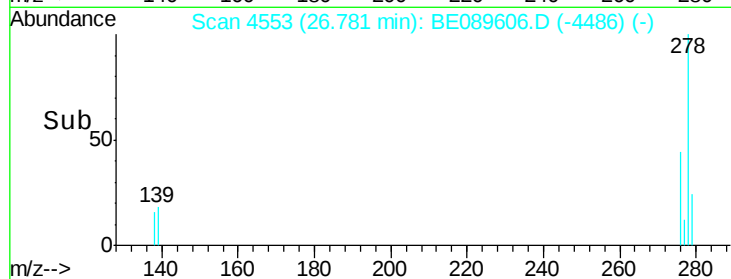
Tgt Ion: 278 Resp: 603908

Ion Ratio Lower Upper

278 100

139 18.4 14.6 21.8

279 24.2 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

