

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021715\
 Data File : BE089605.D
 Acq On : 17 Feb 2015 22:20
 Operator : TP/IZ
 Sample : PB81705BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81705BS

Quant Time: Feb 18 03:13:24 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	63216	5.00	ng	0.00
7) Naphthalene-d8	12.24	136	253699	5.00	ng	0.00
13) Acenaphthene-d10	16.42	164	132450	5.00	ng	0.00
17) Phenanthrene-d10	19.77	188	262292	5.00	ng	0.00
20) Chrysene-d12	23.66	240	303433	5.00	ng	0.00
27) Perylene-d12	25.34	264	252752	5.00	ng	0.00

System Monitoring Compounds

3) 2-Fluorophenol	6.51	112	220561	13.40	ng	0.00
4) Phenol-d6	8.63	99	295948	13.66	ng	0.00
8) Nitrobenzene-d5	10.61	82	142848	10.16	ng	0.00
14) 2,4,6-Tribromophenol	18.32	330	55606	14.29	ng	0.00
15) 2-Fluorobiphenyl	14.88	172	347244	9.81	ng	0.00
22) Terphenyl-d14	22.30	244	458295	11.19	ng	0.00

Target Compounds

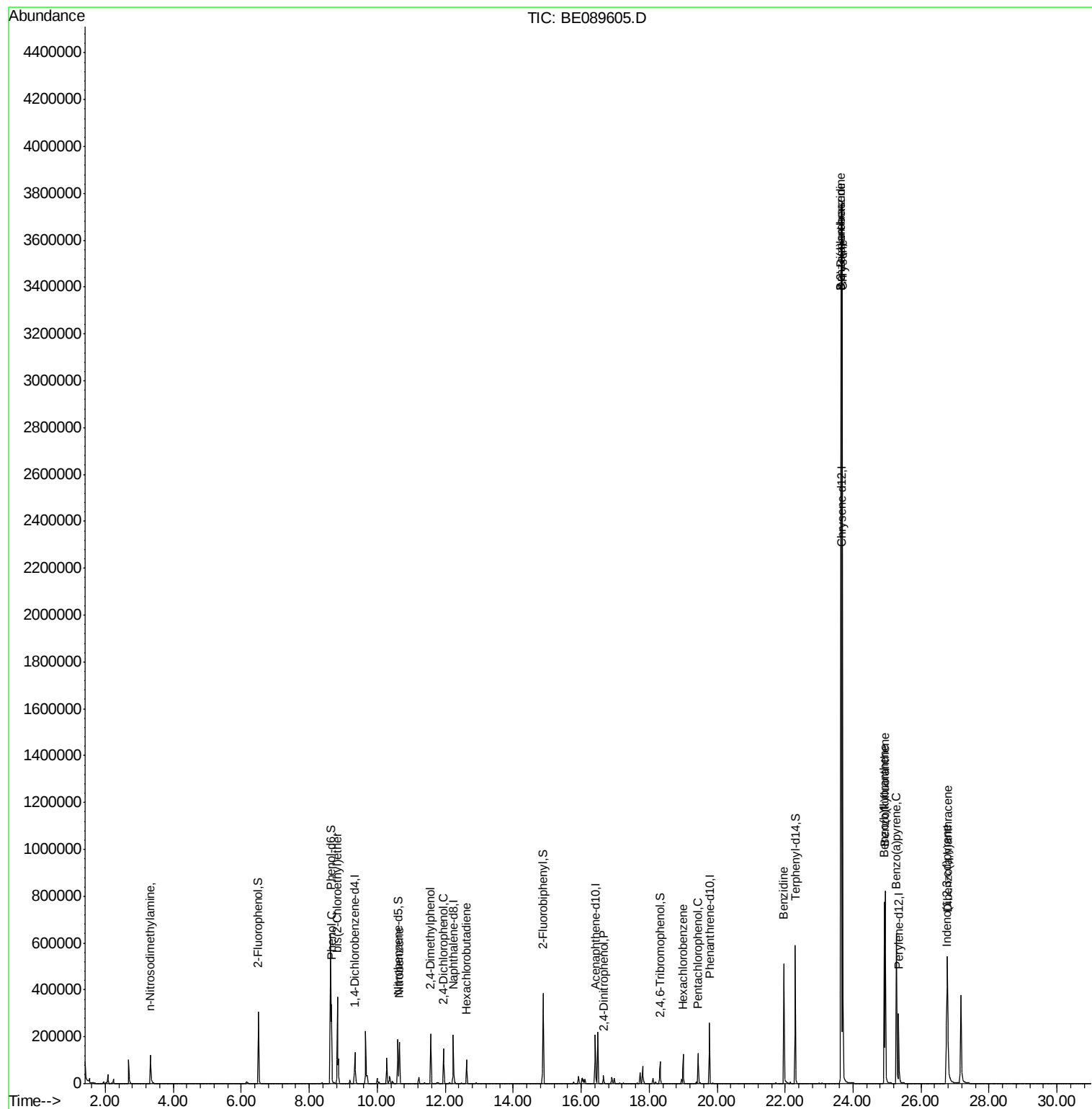
						Qvalue
2) n-Nitrosodimethylamine	3.32	42	66087	7.91	ng	# 61
5) Phenol	8.66	94	203064	8.70	ng	84
6) bis(2-Chloroethyl)ether	8.83	93	165146	8.88	ng	# 98
9) Nitrobenzene	10.65	77	150976	8.93	ng	96
10) 2,4-Dimethylphenol	11.58	122	117283	8.98	ng	94
11) 2,4-Dichlorophenol	11.96	162	108255	10.31	ng	97
12) Hexachlorobutadiene	12.63	225	63289	8.07	ng	100
16) 2,4-Dinitrophenol	16.66	184	24457	17.09	ng	# 62
18) Hexachlorobenzene	19.00	284	99910	8.83	ng	# 87
19) Pentachlorophenol	19.44	266	74732	16.83	ng	98
21) Benzidine	21.96	184	458981	13.31	ng	100
23) Benzo(a)anthracene	23.64	228	2723658	10.53	ng	98
24) 3,3'-Dichlorobenzidine	23.64	252	233219	9.62	ng	# 97
25) Chrysene	23.69	228	2602251	8.79	ng	95
26) Indeno(1,2,3-cd)pyrene	26.75	276	630604	8.83	ng	# 99
28) Benzo(b)fluoranthene	24.92	252	572287	9.53	ng	99
29) Benzo(k)fluoranthene	24.95	252	691194	8.66	ng	98
30) Benzo(a)pyrene	25.28	252	560618	9.60	ng	99
31) Dibenzo(a,h)anthracene	26.78	278	526628	9.23	ng	100

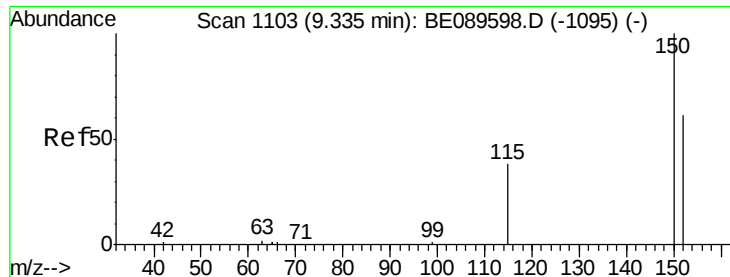
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

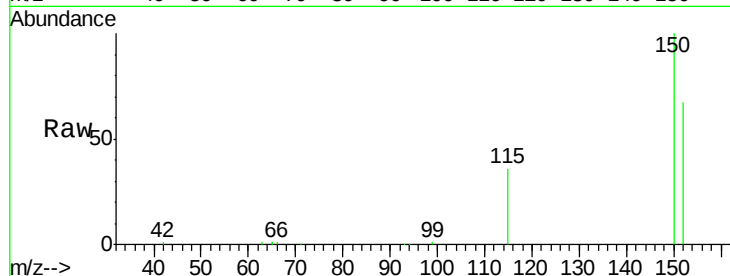
Tgt Ion:152 Resp: 63216

Ion Ratio Lower Upper

152 100

150 149.3 130.7 196.1

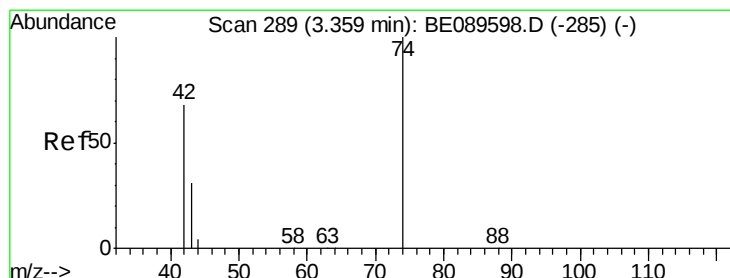
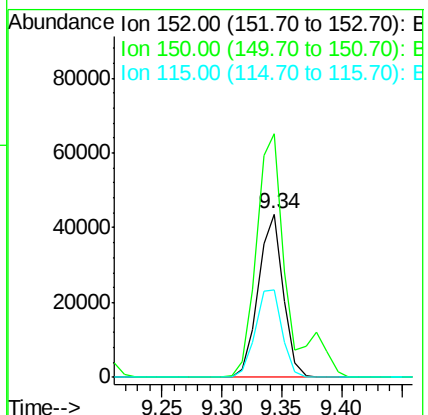
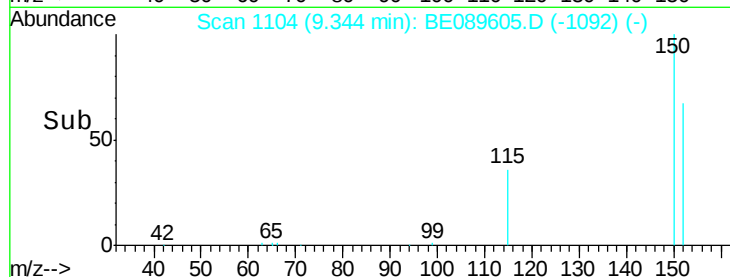
115 53.4 49.6 74.4



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: 7.91 ng

RT: 3.32 min Scan# 283

Delta R.T. -0.04 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

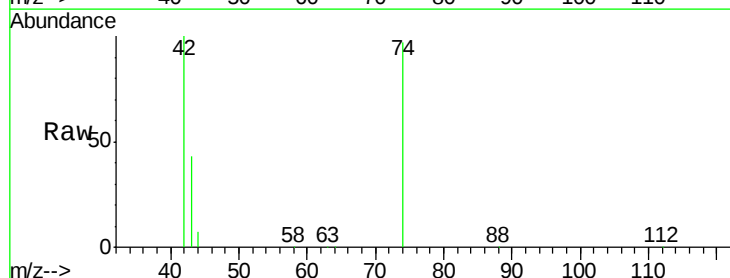
Tgt Ion: 42 Resp: 66087

Ion Ratio Lower Upper

42 100

74 97.2 114.6 171.8#

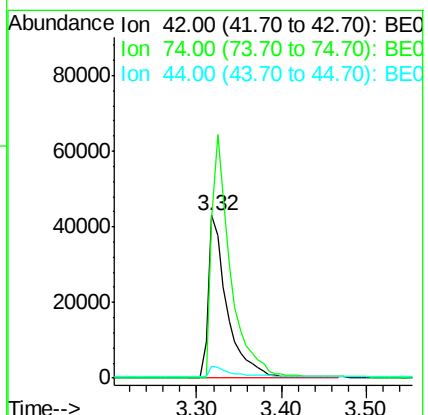
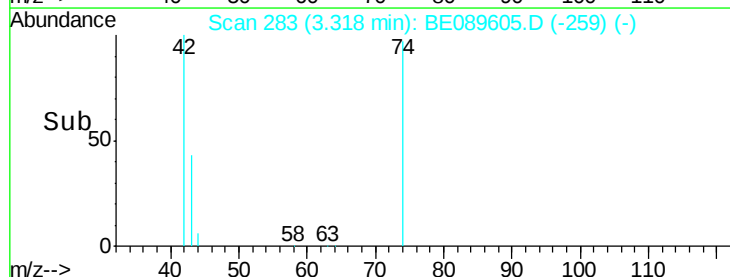
44 6.9 27.5 41.3#

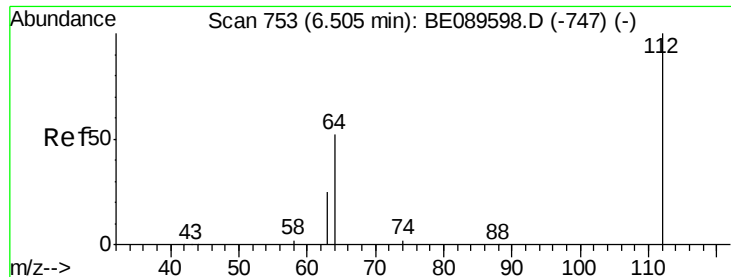


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

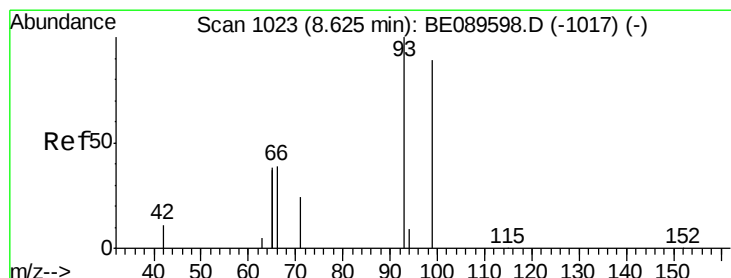
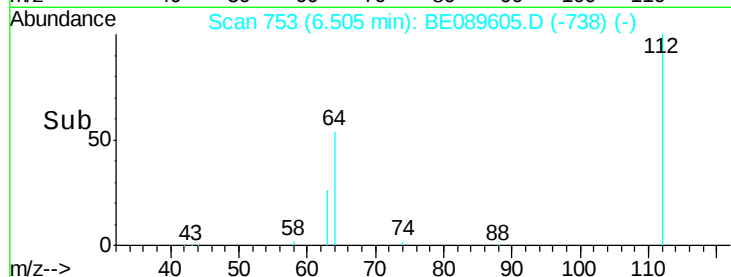
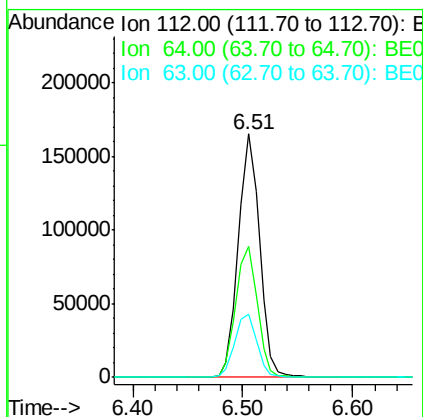
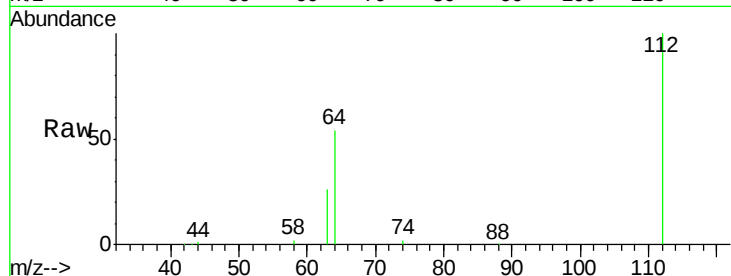




#3
 2-Fluorophenol
 Concen: 13.40 ng
 RT: 6.51 min Scan# 753
 Delta R.T. -0.00 min
 Lab File: BE089605.D
 Acq: 17 Feb 2015 22:20

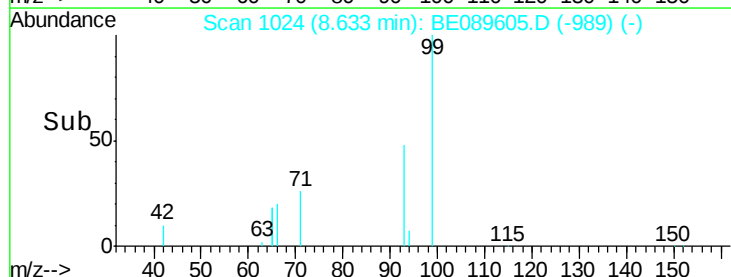
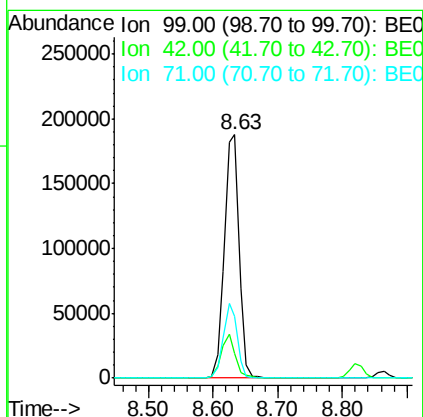
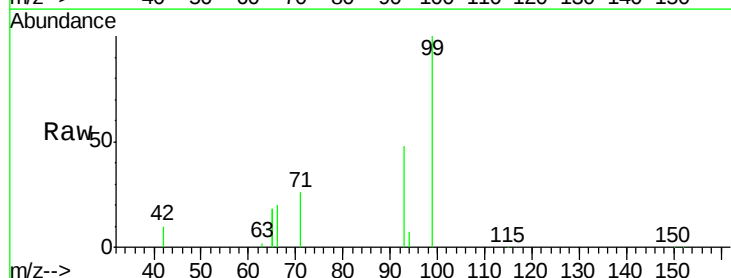
Instrument :
 BNA_E
 ClientSampled :
 PB81705BS

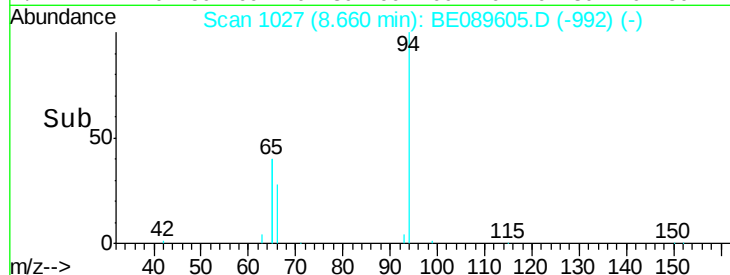
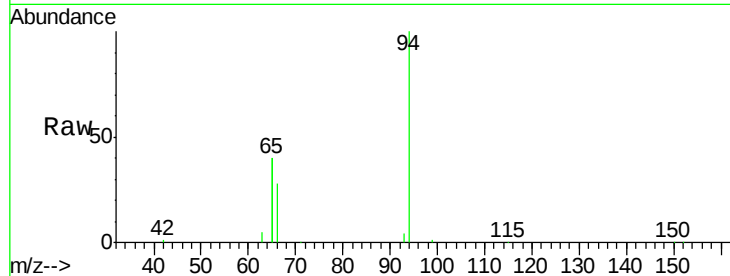
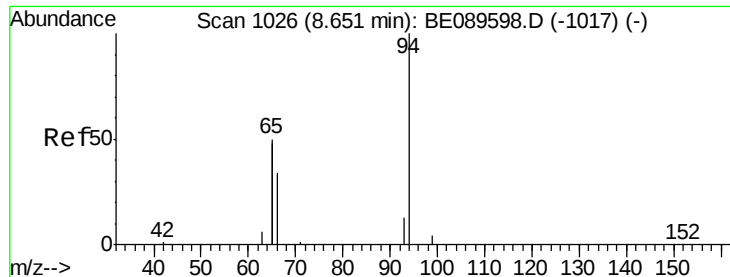
Tgt Ion: 112 Resp: 220561
 Ion Ratio Lower Upper
 112 100
 64 53.6 41.7 62.5
 63 26.1 20.3 30.5



#4
 Phenol-d6
 Concen: 13.66 ng
 RT: 8.63 min Scan# 1024
 Delta R.T. 0.01 min
 Lab File: BE089605.D
 Acq: 17 Feb 2015 22:20

Tgt Ion: 99 Resp: 295948
 Ion Ratio Lower Upper
 99 100
 42 9.9 10.8 16.2#
 71 25.6 21.8 32.6





#5

Phenol

Concen: 8.70 ng

RT: 8.66 min Scan# 1027

Delta R.T. 0.01 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

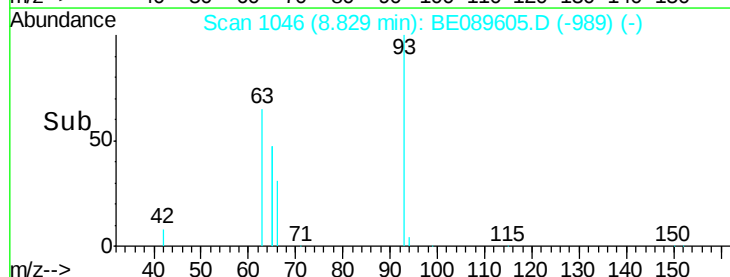
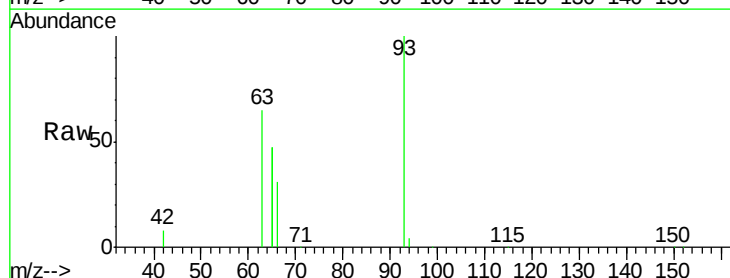
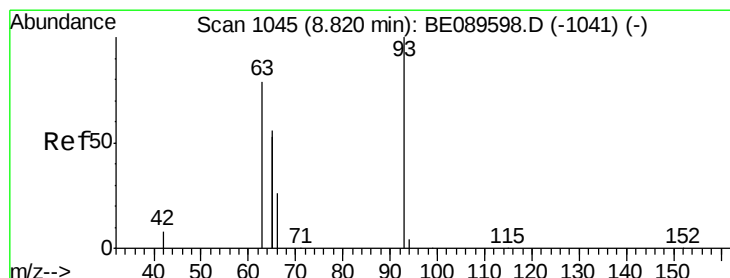
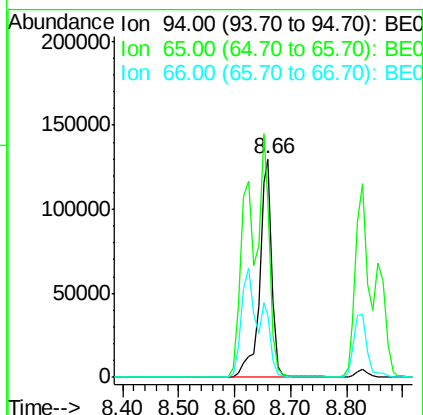
Tgt Ion: 94 Resp: 203064

Ion Ratio Lower Upper

94 100

65 80.8 78.6 118.6

66 28.3 14.0 54.0



#6

bis(2-Chloroethyl)ether

Concen: 8.88 ng

RT: 8.83 min Scan# 1046

Delta R.T. 0.01 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

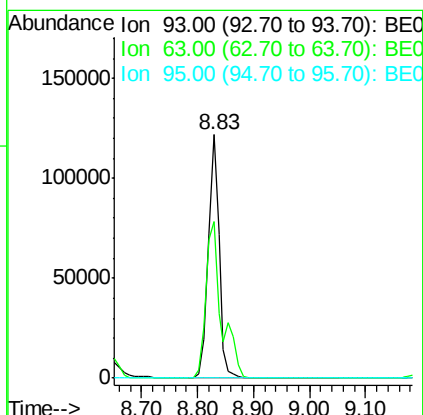
Tgt Ion: 93 Resp: 165146

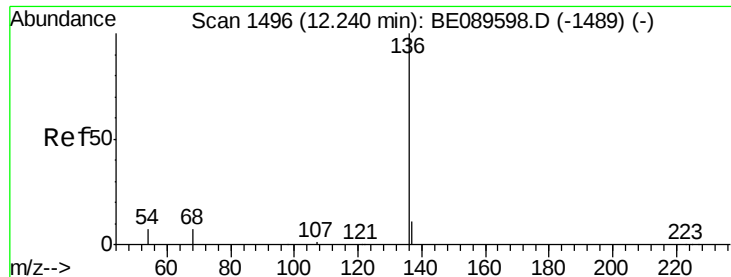
Ion Ratio Lower Upper

93 100

63 91.8 74.6 112.0

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

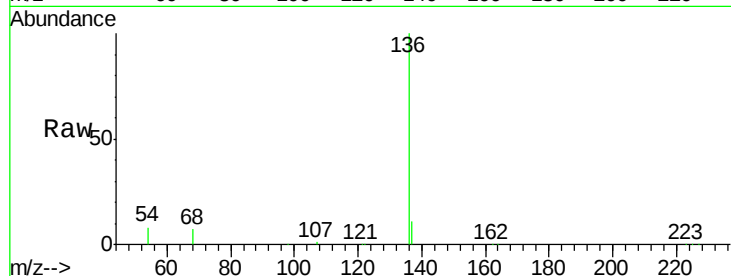
Tgt Ion: 136 Resp: 253699

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

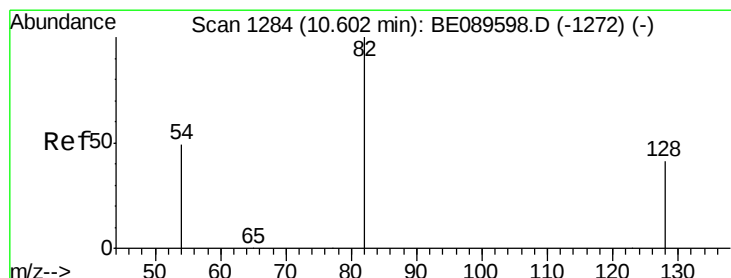
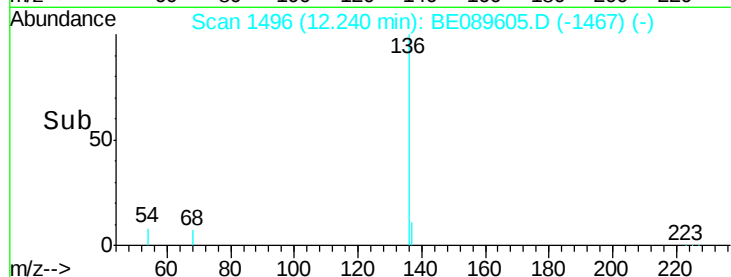
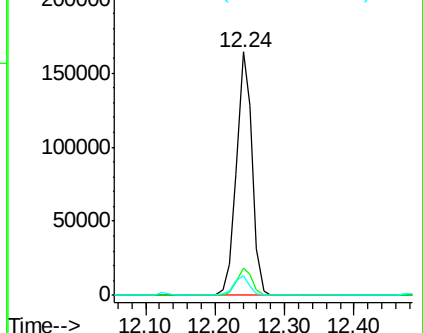
54 8.1 5.7 8.5



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: 10.16 ng

RT: 10.61 min Scan# 1286

Delta R.T. 0.01 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

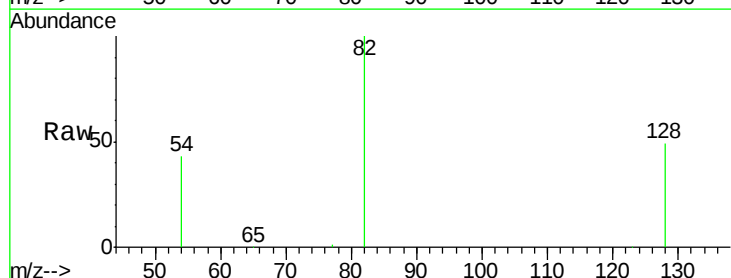
Tgt Ion: 82 Resp: 142848

Ion Ratio Lower Upper

82 100

128 48.5 33.2 49.8

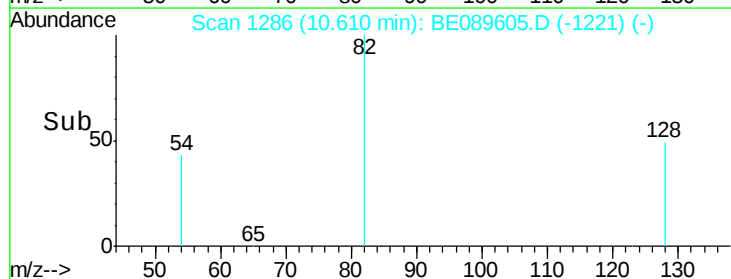
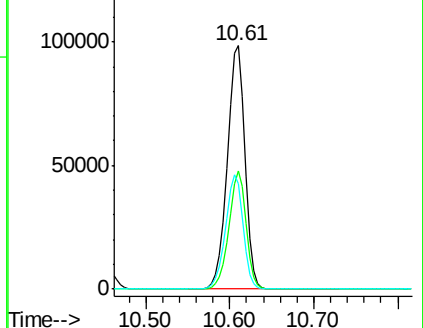
54 43.3 39.6 59.4

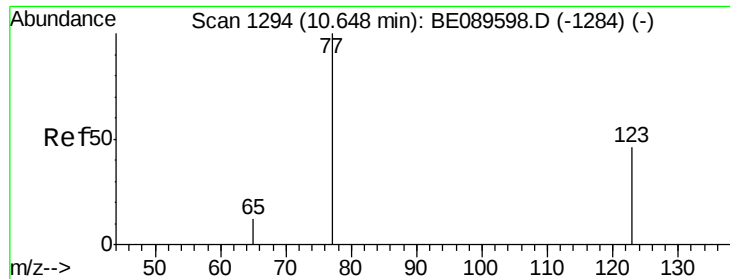


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 8.93 ng

RT: 10.65 min Scan# 1295

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

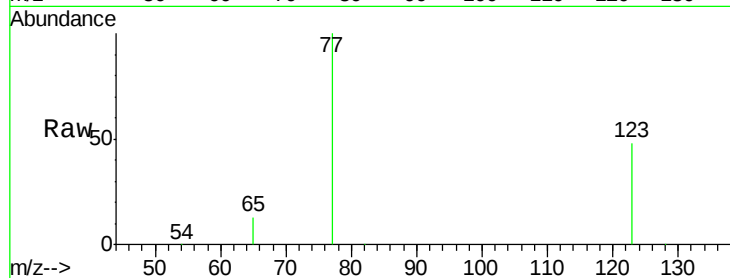
Tgt Ion: 77 Resp: 150976

Ion Ratio Lower Upper

77 100

123 49.1 36.5 54.7

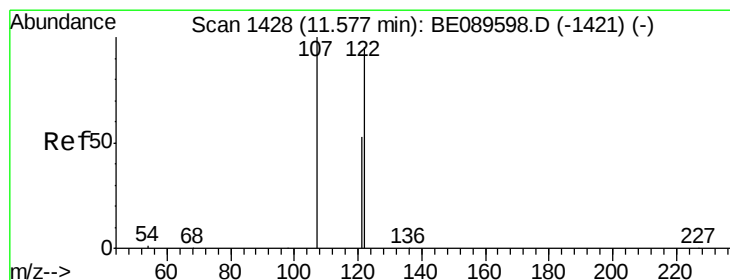
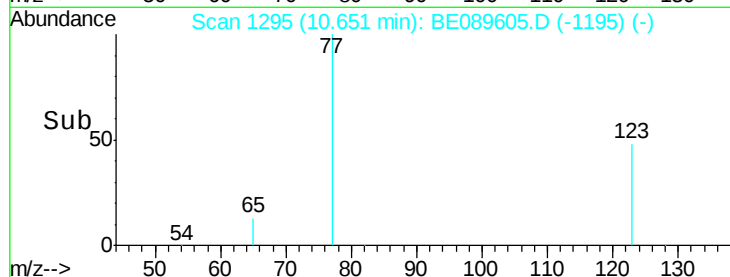
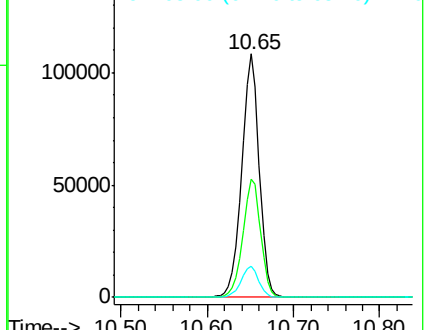
65 13.1 10.2 15.4



Abundance Ion 77.00 (76.70 to 77.70): BE089598.D (-1284) (-)

Ion 123.00 (122.70 to 123.70): BE089598.D (-1284) (-)

Ion 65.00 (64.70 to 65.70): BE089598.D (-1284) (-)



#10

2,4-Dimethylphenol

Concen: 8.98 ng

RT: 11.58 min Scan# 1428

Delta R.T. -0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

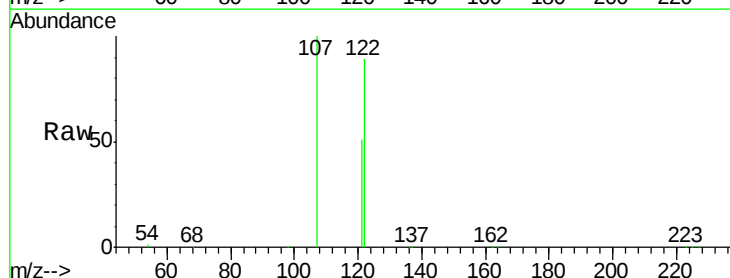
Tgt Ion: 122 Resp: 117283

Ion Ratio Lower Upper

122 100

107 112.9 83.9 125.9

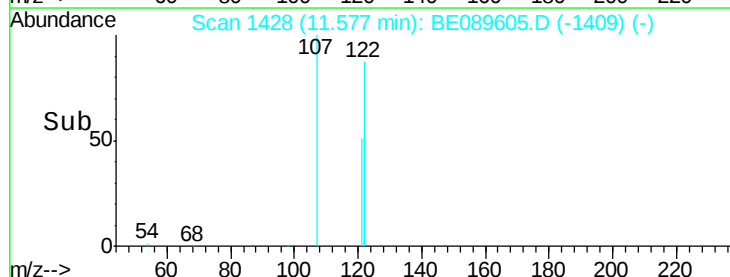
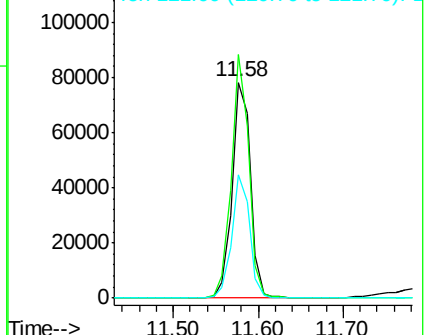
121 57.2 44.9 67.3

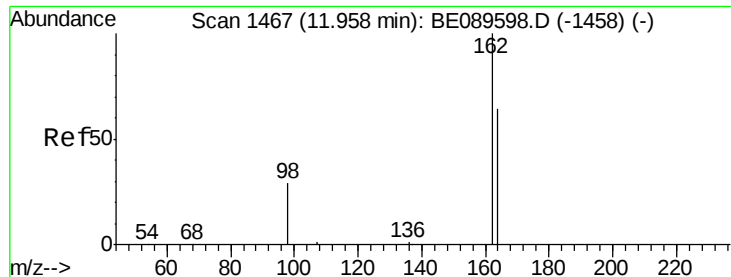


Abundance Ion 122.00 (121.70 to 122.70): BE089598.D (-1421) (-)

Ion 107.00 (106.70 to 107.70): BE089598.D (-1421) (-)

Ion 121.00 (120.70 to 121.70): BE089598.D (-1421) (-)

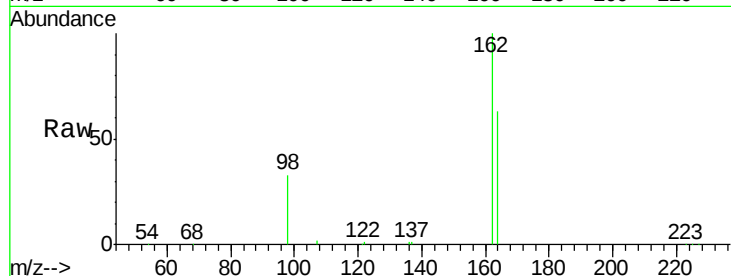




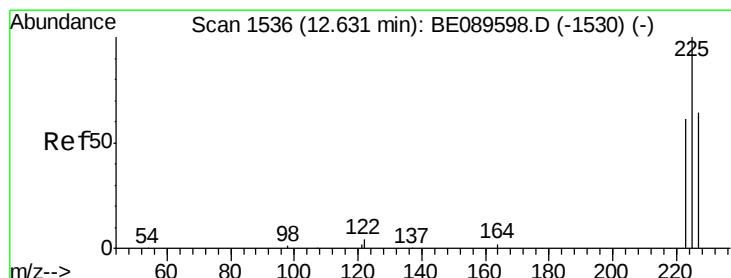
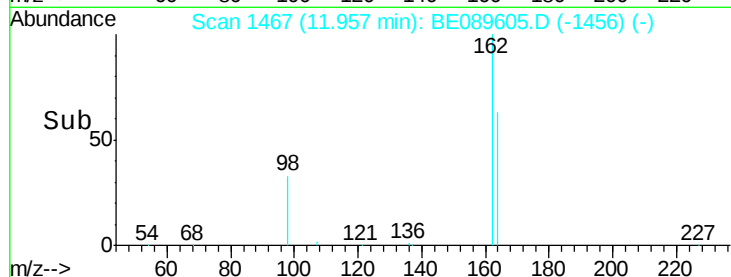
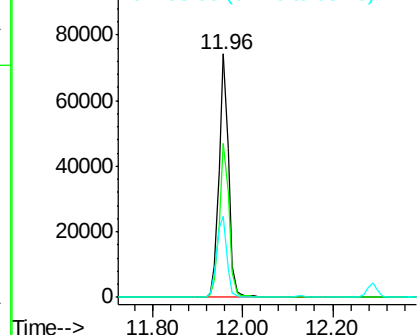
#11
 2,4-Dichlorophenol
 Concen: 10.31 ng
 RT: 11.96 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: BE089605.D
 Acq: 17 Feb 2015 22:20

Instrument :
 BNA_E
 ClientSampleId :
 PB81705BS

Tgt Ion	Ratio	Lower	Upper
162	100		
164	63.3	44.7	84.7
98	33.2	10.3	50.3

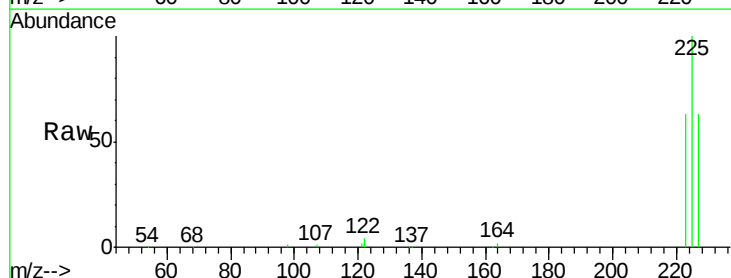


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BE0

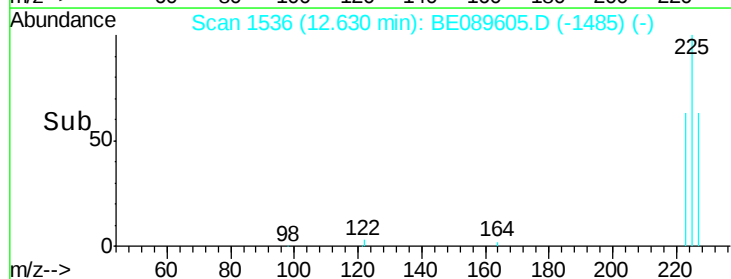
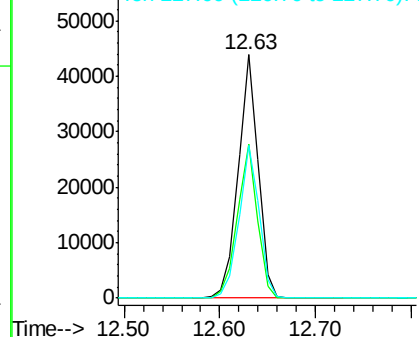


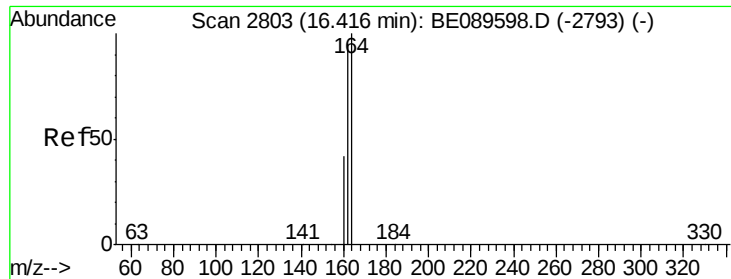
#12
 Hexachlorobutadiene
 Concen: 8.07 ng
 RT: 12.63 min Scan# 1536
 Delta R.T. -0.00 min
 Lab File: BE089605.D
 Acq: 17 Feb 2015 22:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.3	75.5
227	63.6	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: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

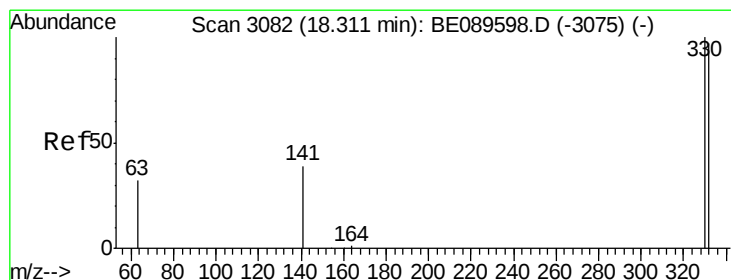
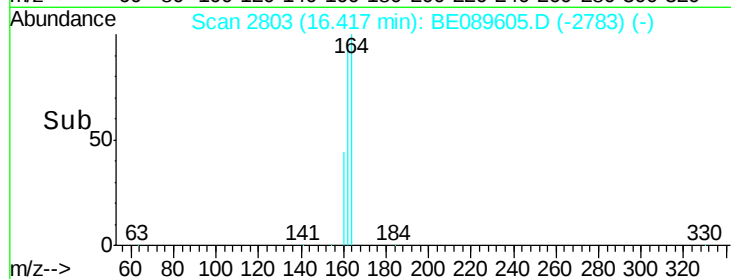
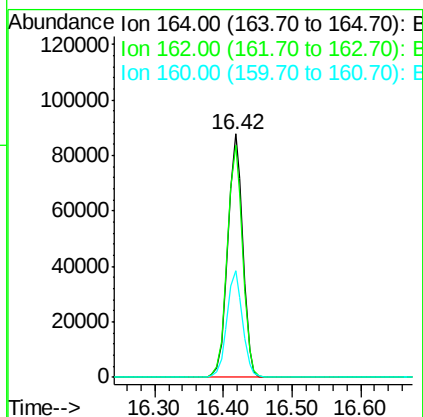
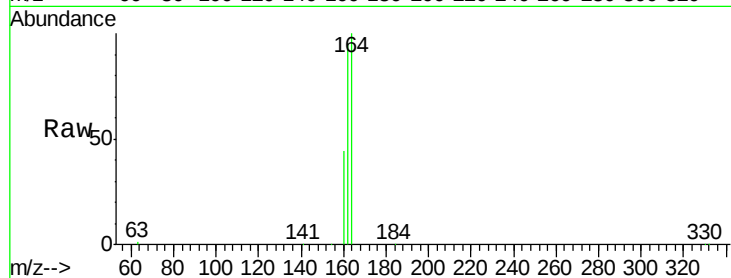
Tgt Ion:164 Resp: 132450

Ion Ratio Lower Upper

164 100

162 95.1 76.3 114.5

160 43.8 33.9 50.9



#14

2,4,6-Tribromophenol

Concen: 14.29 ng

RT: 18.32 min Scan# 3083

Delta R.T. 0.01 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

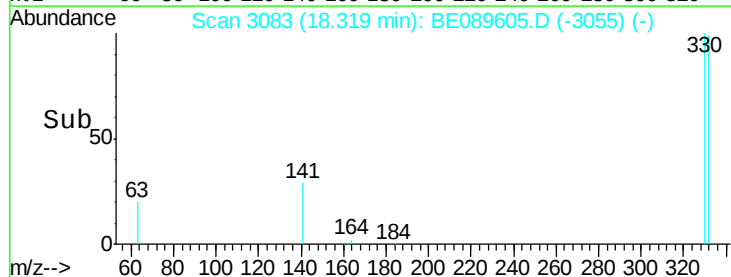
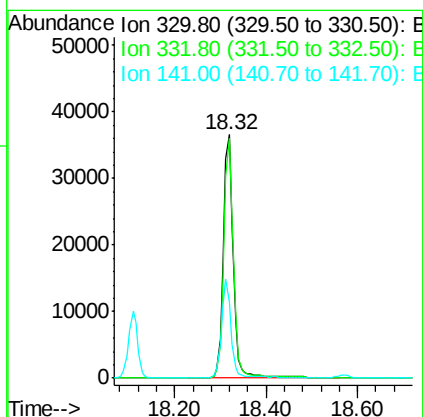
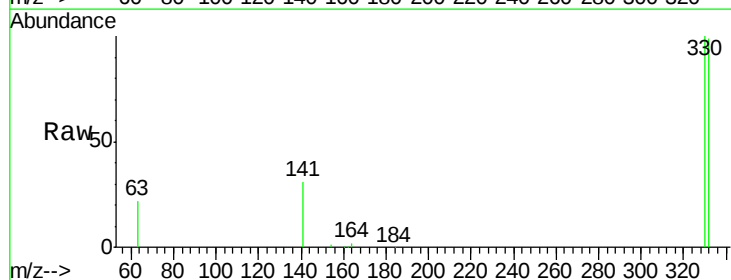
Tgt Ion:330 Resp: 55606

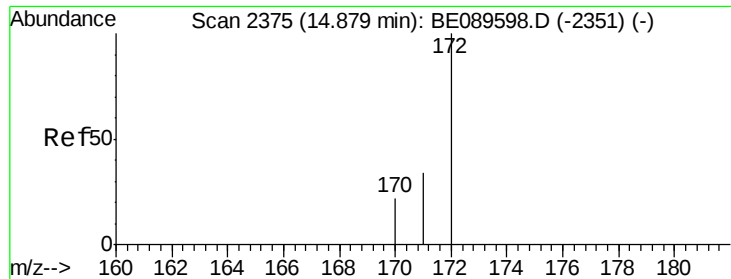
Ion Ratio Lower Upper

330 100

332 96.8 76.7 115.1

141 39.4 30.1 45.1

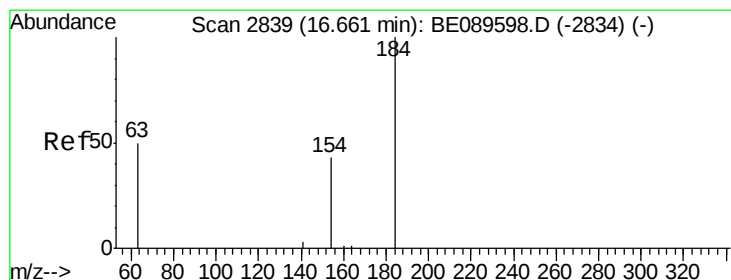
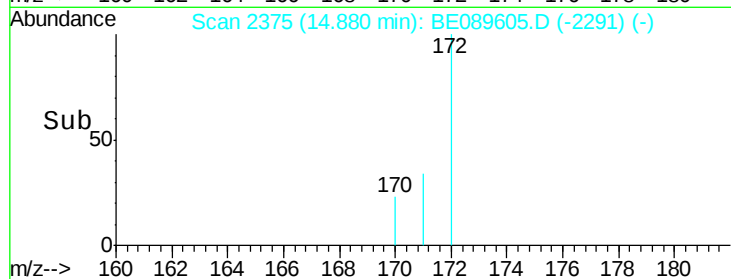
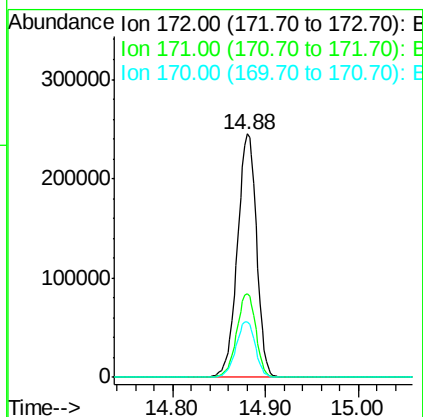
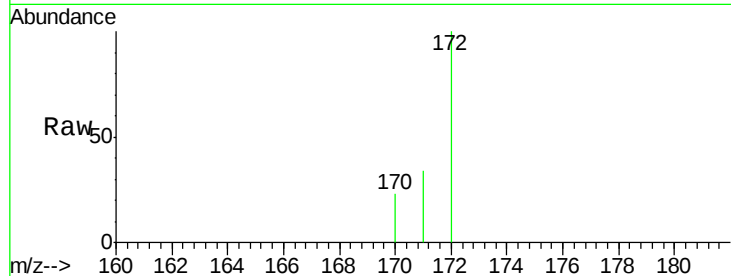




#15
2-Fluorobiphenyl
Concen: 9.81 ng
RT: 14.88 min Scan# 2375
Delta R.T. 0.00 min
Lab File: BE089605.D
Acq: 17 Feb 2015 22:20

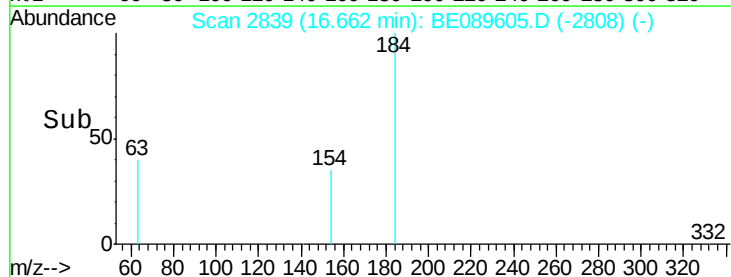
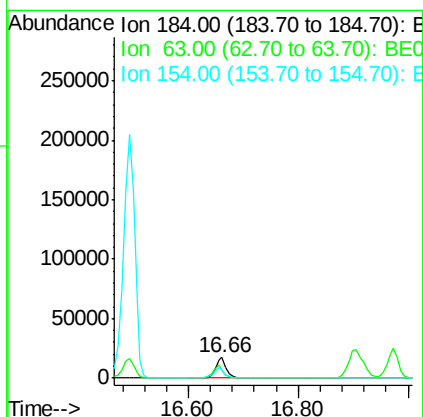
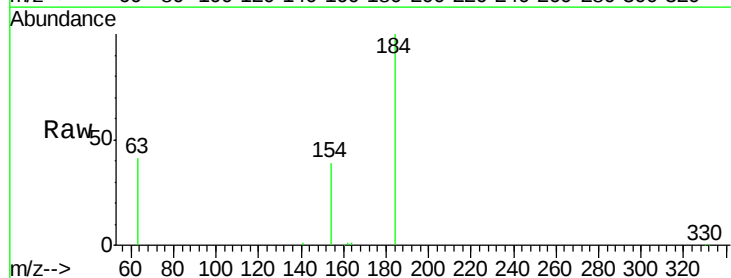
Instrument :
BNA_E
ClientSampleId :
PB81705BS

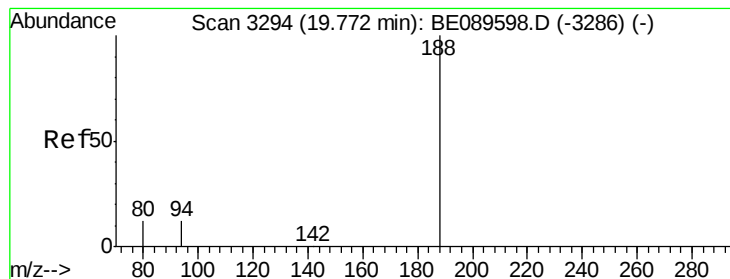
Tgt Ion:172 Resp: 347244
Ion Ratio Lower Upper
172 100
171 34.3 27.4 41.0
170 22.9 17.9 26.9



#16
2,4-Dinitrophenol
Concen: 17.09 ng
RT: 16.66 min Scan# 2839
Delta R.T. 0.00 min
Lab File: BE089605.D
Acq: 17 Feb 2015 22:20

Tgt Ion:184 Resp: 24457
Ion Ratio Lower Upper
184 100
63 41.4 61.0 91.4#
154 39.0 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: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampled :

PB81705BS

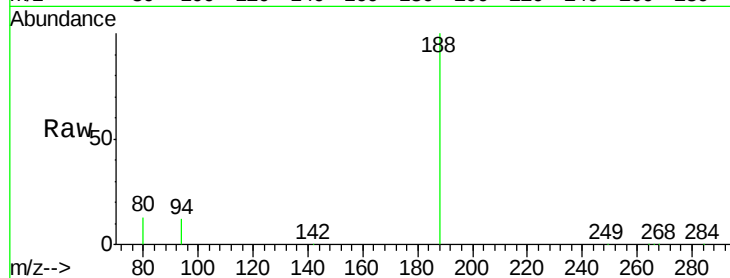
Tgt Ion:188 Resp: 262292

Ion Ratio Lower Upper

188 100

94 12.2 9.4 14.2

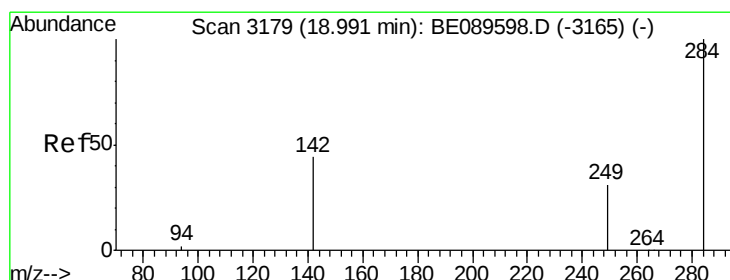
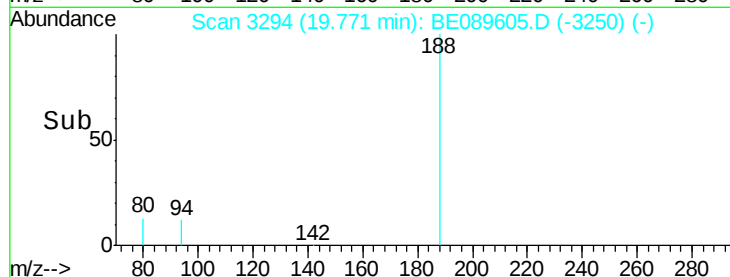
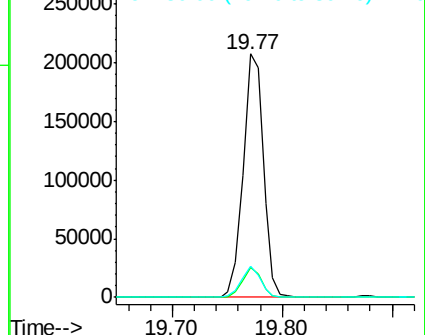
80 12.8 9.8 14.8



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: 8.83 ng

RT: 19.00 min Scan# 3180

Delta R.T. 0.01 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

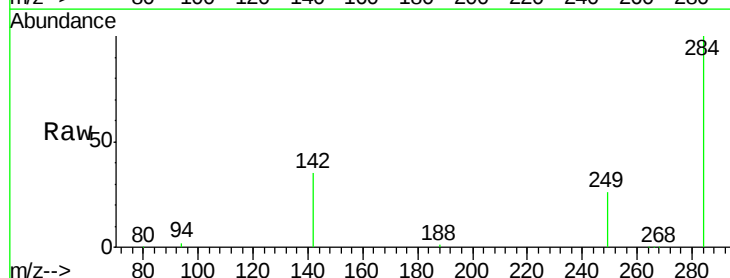
Tgt Ion:284 Resp: 99910

Ion Ratio Lower Upper

284 100

142 34.5 35.6 53.4#

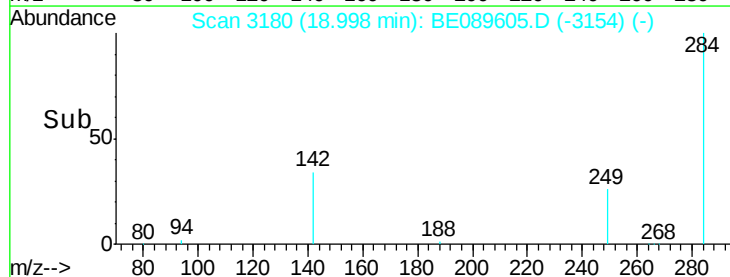
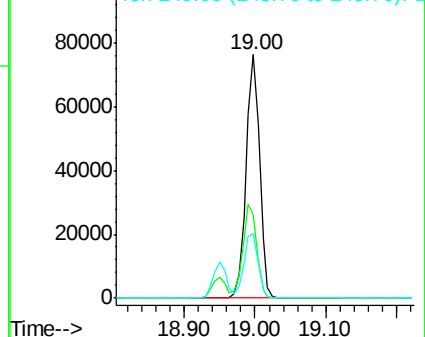
249 26.5 25.2 37.8

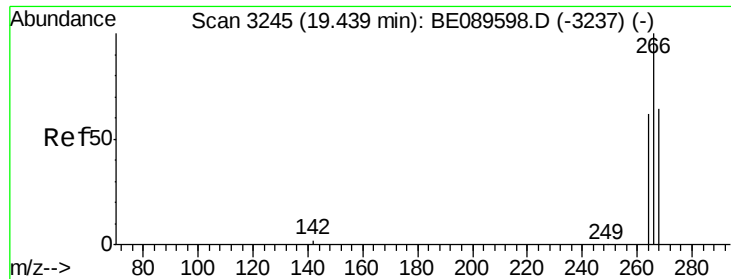


Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#19

Pentachlorophenol

Concen: 16.83 ng

RT: 19.44 min Scan# 3245

Delta R.T. -0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

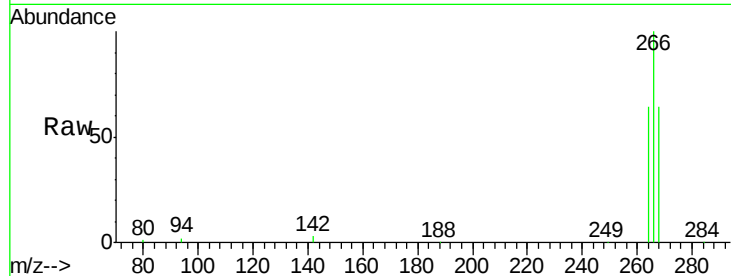
Tgt Ion:266 Resp: 74732

Ion Ratio Lower Upper

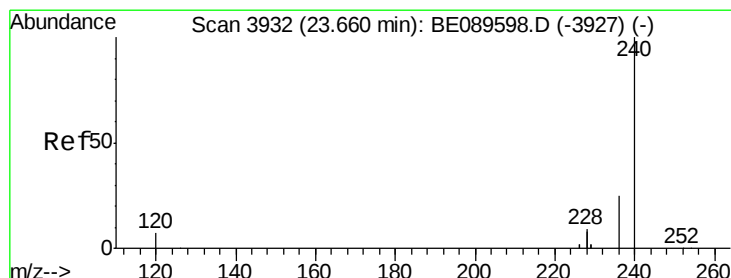
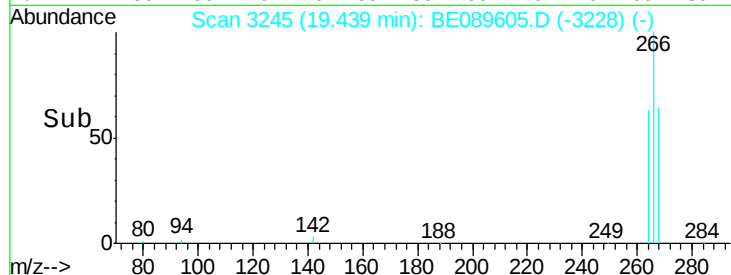
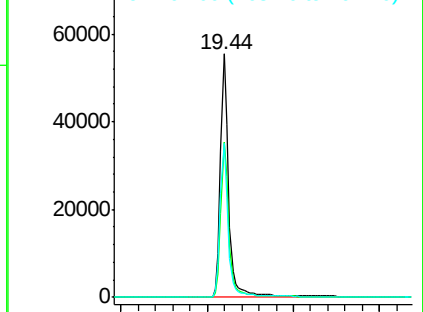
266 100

268 63.7 53.0 79.4

264 63.5 51.9 77.9



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: 23.66 min Scan# 3931

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

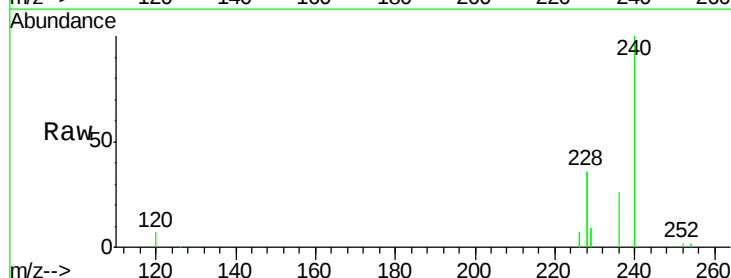
Tgt Ion:240 Resp: 303433

Ion Ratio Lower Upper

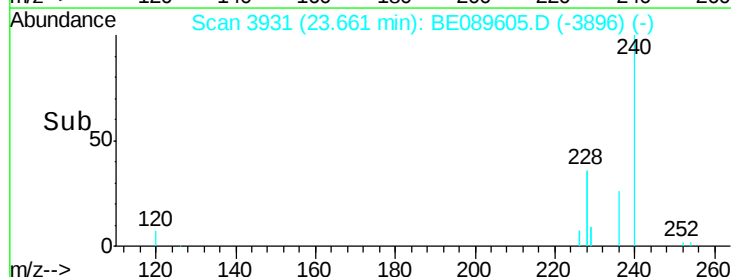
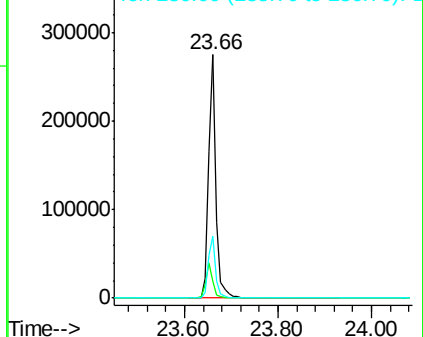
240 100

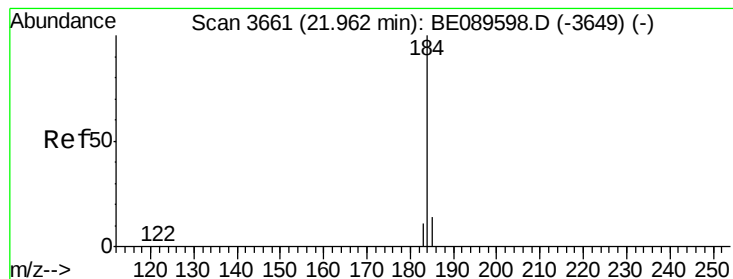
120 7.2 5.4 8.0

236 25.7 19.8 29.6



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: 13.31 ng

RT: 21.96 min Scan# 3661

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

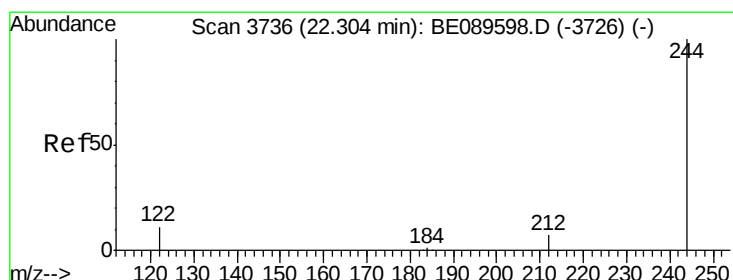
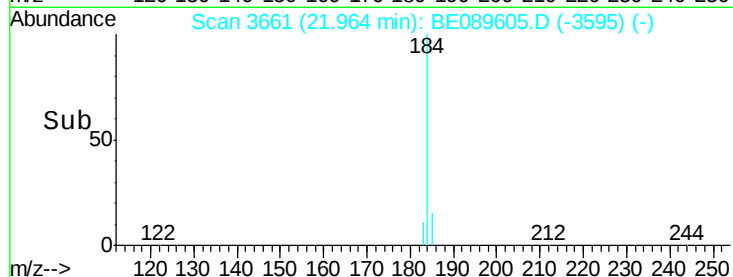
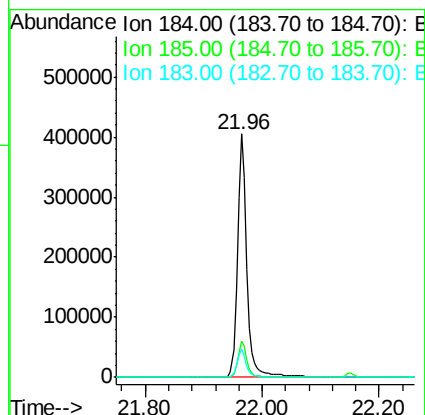
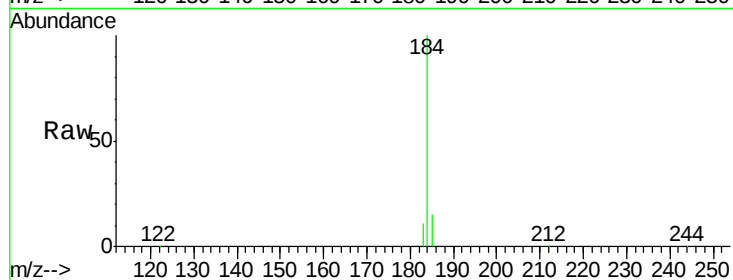
Tgt Ion:184 Resp: 458981

Ion Ratio Lower Upper

184 100

185 14.7 11.8 17.8

183 11.5 9.3 13.9



#22

Terphenyl-d14

Concen: 11.19 ng

RT: 22.30 min Scan# 3735

Delta R.T. -0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

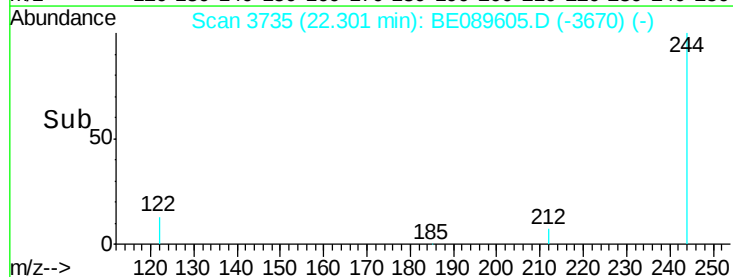
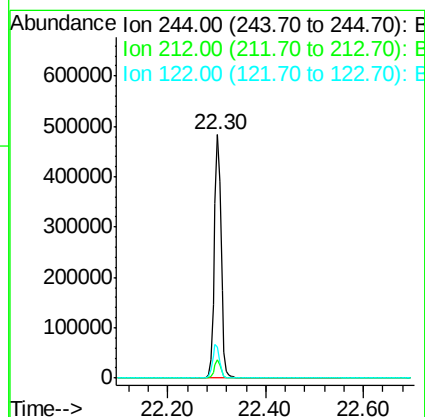
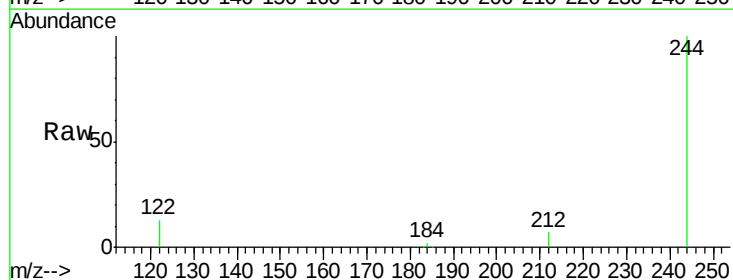
Tgt Ion:244 Resp: 458295

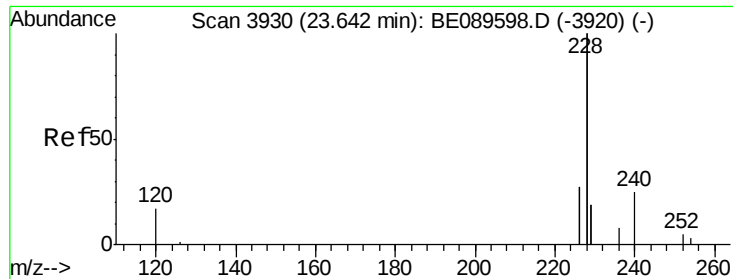
Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

122 12.8 8.6 13.0





#23

Benzo(a)anthracene

Concen: 10.53 ng

RT: 23.64 min Scan# 3929

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

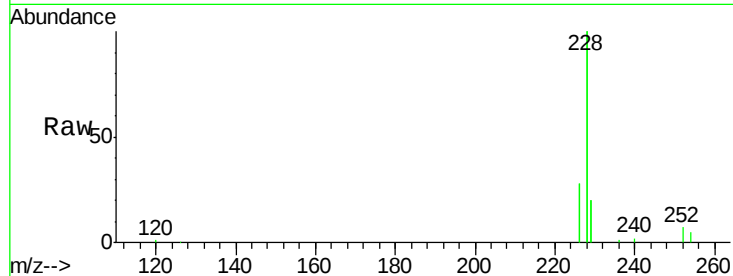
Tgt Ion:228 Resp: 2723658

Ion Ratio Lower Upper

228 100

226 27.7 21.5 32.3

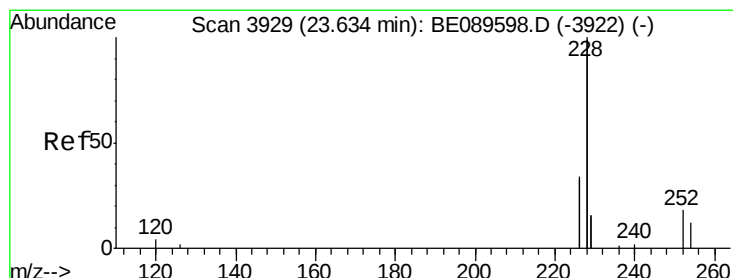
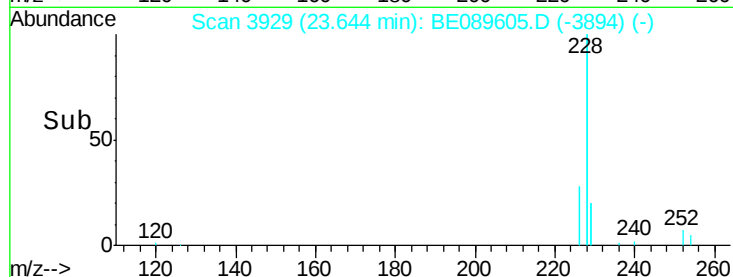
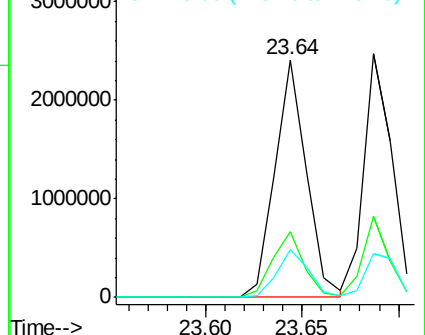
229 20.3 15.0 22.6



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: 9.62 ng

RT: 23.64 min Scan# 3928

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

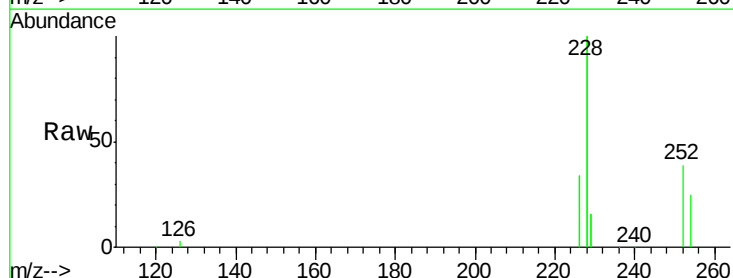
Tgt Ion:252 Resp: 233219

Ion Ratio Lower Upper

252 100

254 64.2 51.7 77.5

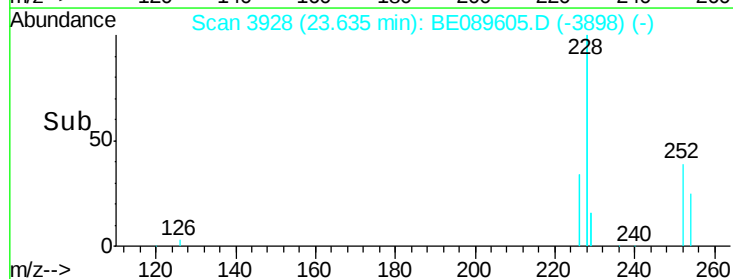
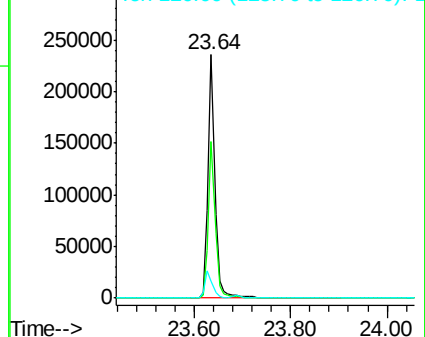
126 7.1 9.9 14.9#

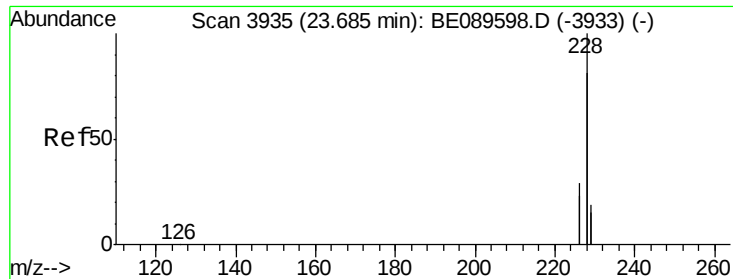


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 8.79 ng

RT: 23.69 min Scan# 3934

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

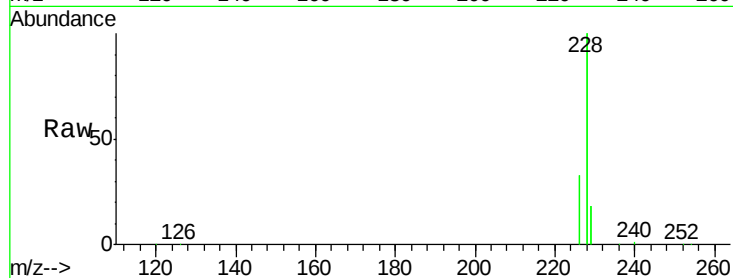
Tgt Ion:228 Resp: 2602251

Ion Ratio Lower Upper

228 100

226 33.4 23.4 35.2

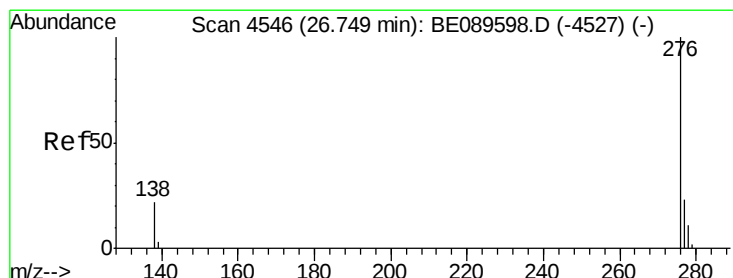
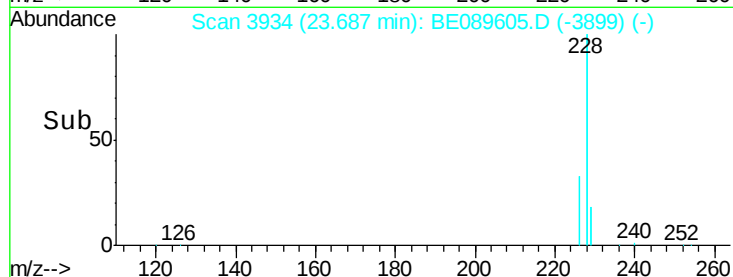
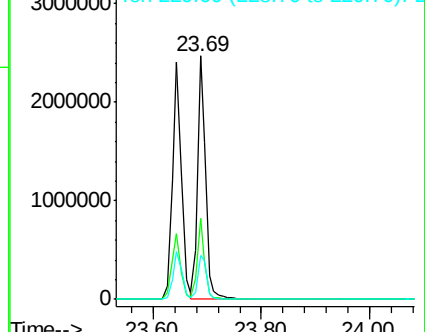
229 18.1 15.3 22.9



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# 4546

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

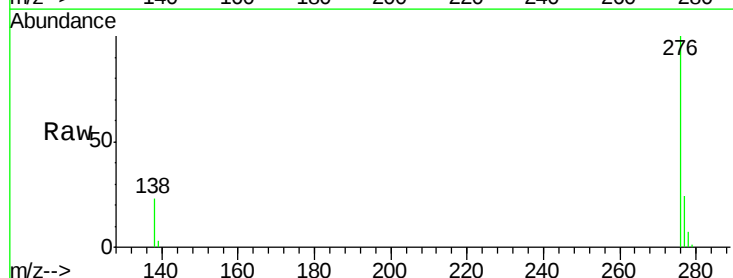
Tgt Ion:276 Resp: 630604

Ion Ratio Lower Upper

276 100

138 27.8 0.0 0.0#

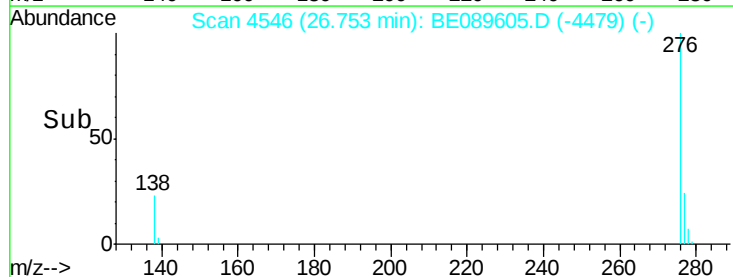
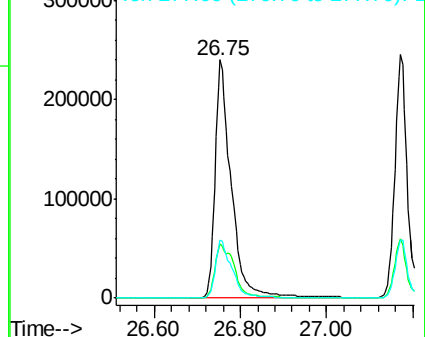
277 25.4 19.9 29.9

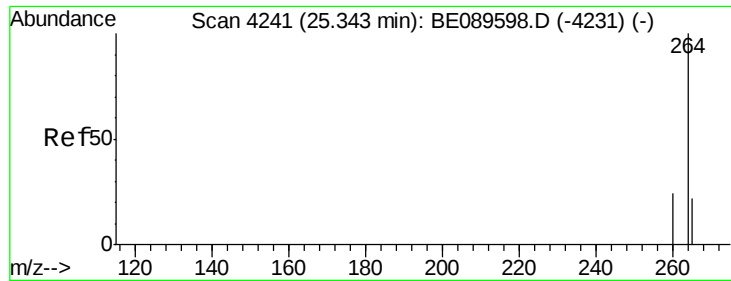


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

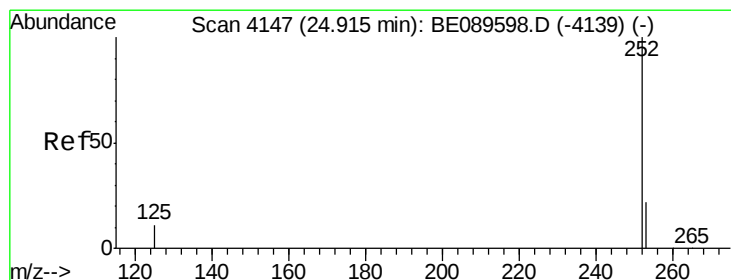
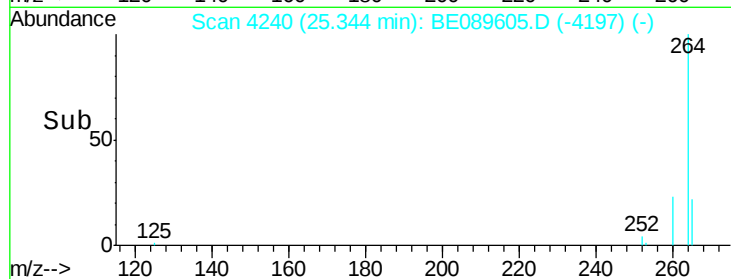
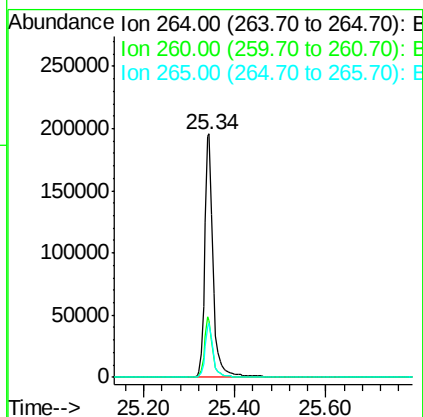
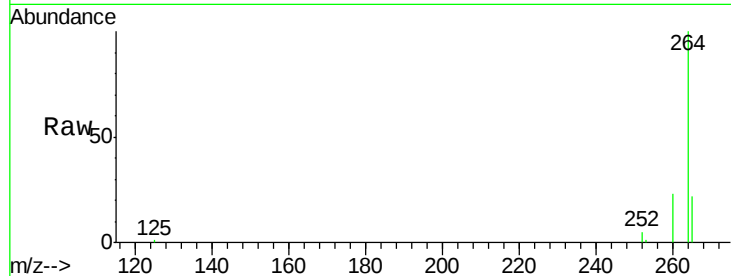




#27
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4240
Delta R.T. 0.00 min
Lab File: BE089605.D
Acq: 17 Feb 2015 22:20

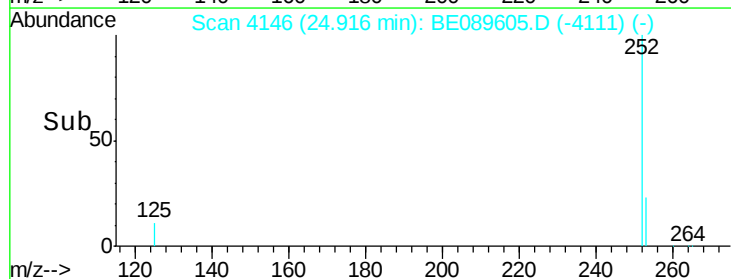
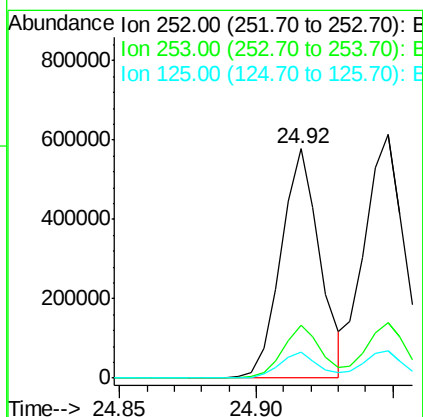
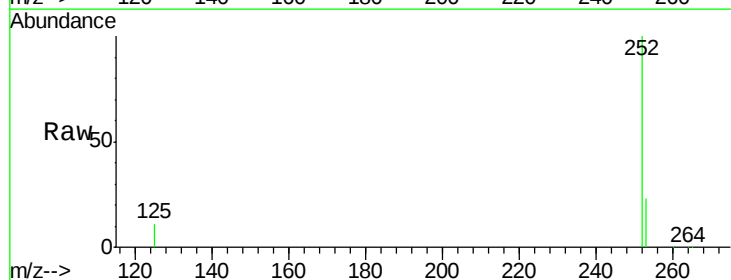
Instrument :
BNA_E
ClientSampleId :
PB81705BS

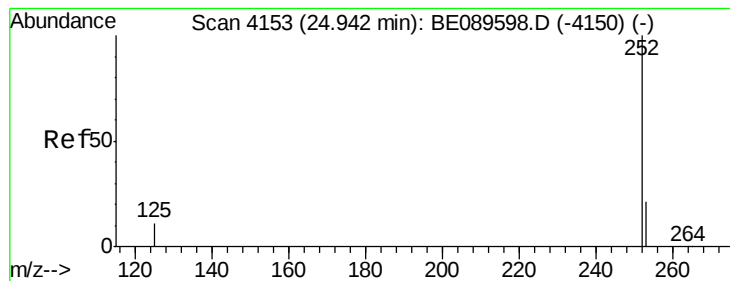
Tgt Ion: 264 Resp: 252752
Ion Ratio Lower Upper
264 100
260 23.5 19.0 28.4
265 22.4 17.8 26.8



#28
Benzo(b)fluoranthene
Concen: 9.53 ng
RT: 24.92 min Scan# 4146
Delta R.T. 0.00 min
Lab File: BE089605.D
Acq: 17 Feb 2015 22:20

Tgt Ion: 252 Resp: 572287
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.8
125 11.2 8.9 13.3





#29

Benzo(k)fluoranthene

Concen: 8.66 ng

RT: 24.95 min Scan# 4153

Delta R.T. 0.01 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS

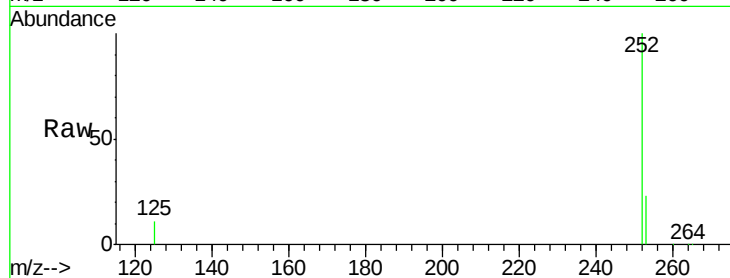
Tgt Ion:252 Resp: 691194

Ion Ratio Lower Upper

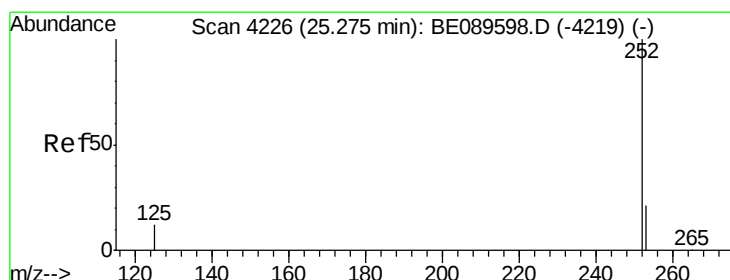
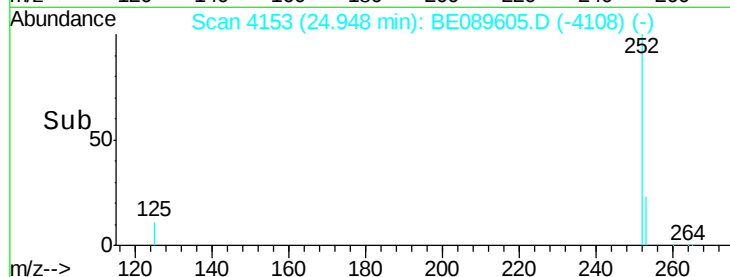
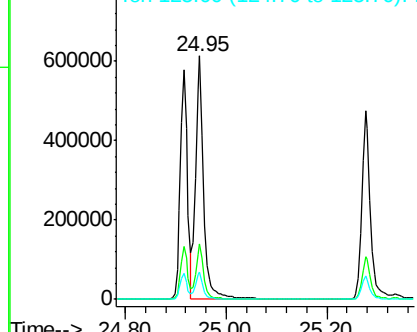
252 100

253 23.0 17.3 25.9

125 11.1 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: 9.60 ng

RT: 25.28 min Scan# 4225

Delta R.T. 0.00 min

Lab File: BE089605.D

Acq: 17 Feb 2015 22:20

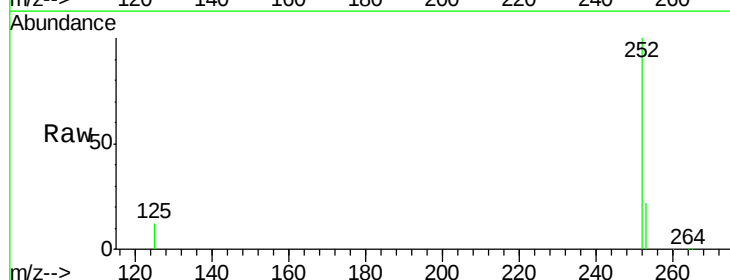
Tgt Ion:252 Resp: 560618

Ion Ratio Lower Upper

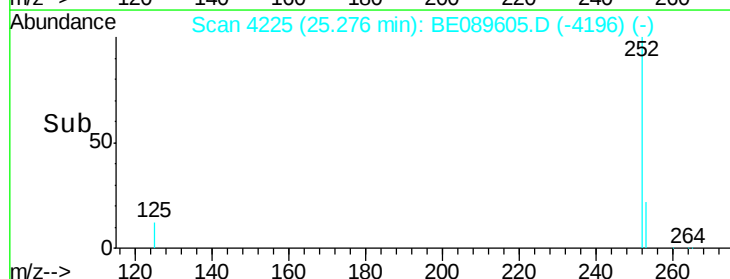
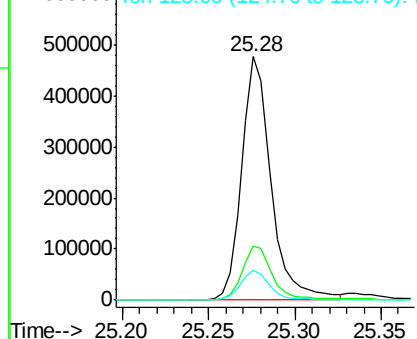
252 100

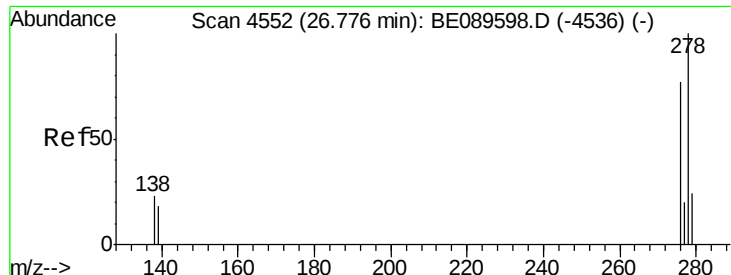
253 22.3 17.1 25.7

125 12.4 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: 9.23 ng

RT: 26.78 min Scan# 4552

Delta R.T. 0.00 min

Lab File: BE089605.D

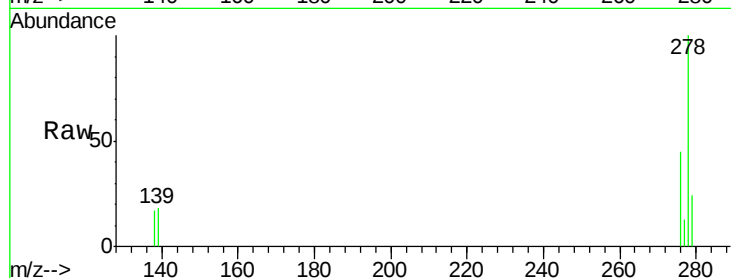
Acq: 17 Feb 2015 22:20

Instrument :

BNA_E

ClientSampleId :

PB81705BS



Tgt Ion: 278 Resp: 526628

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

