

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021615\
 Data File : BE089581.D
 Acq On : 16 Feb 2015 23:03
 Operator : TP/IZ
 Sample : PB81705BSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81705BSD

Quant Time: Feb 17 00:23:50 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE021615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 16 18:23:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	81930	5.00	ng	0.00
7) Naphthalene-d8	12.25	136	313500	5.00	ng	0.00
13) Acenaphthene-d10	16.42	164	151417	5.00	ng	0.00
17) Phenanthrene-d10	19.78	188	293118	5.00	ng	0.00
20) Chrysene-d12	23.66	240	390314	5.00	ng	0.00
27) Perylene-d12	25.34	264	357370	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.51	112	259287	10.95	ng	0.00
4) Phenol-d6	8.63	99	345229	10.99	ng	0.00
8) Nitrobenzene-d5	10.61	82	154588	11.60	ng	0.00
14) 2,4,6-Tribromophenol	18.32	330	55945	16.40	ng	0.00
15) 2-Fluorobiphenyl	14.88	172	364851	8.92	ng	0.00
22) Terphenyl-d14	22.31	244	487435	9.06	ng	0.00

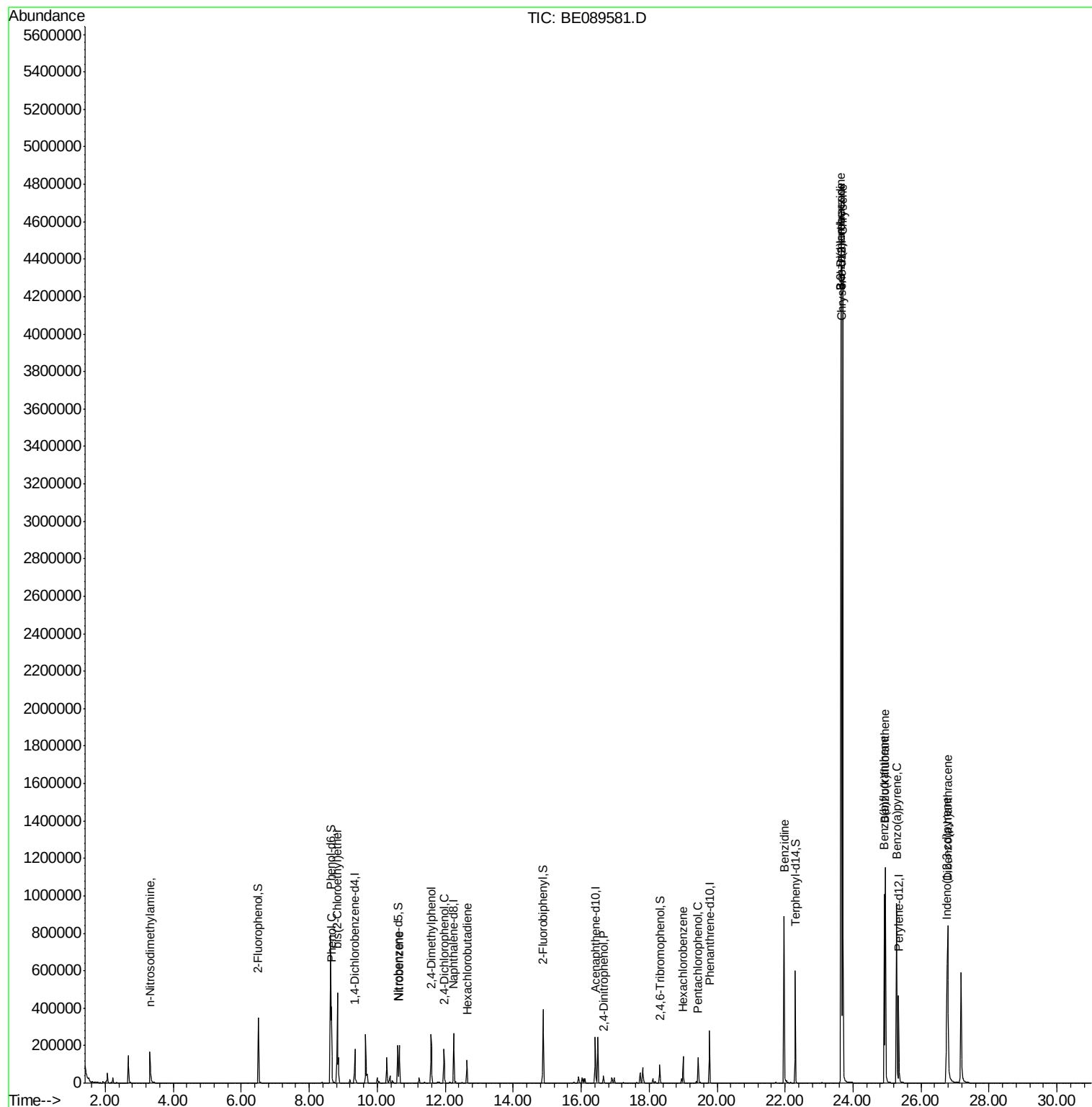
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.31	42	90940	7.00	ng	# 59
5) Phenol	8.66	94	257364	7.62	ng	# 79
6) bis(2-Chloroethyl)ether	8.83	93	211913	8.24	ng	# 92
9) Nitrobenzene	10.65	77	180612	11.22	ng	94
10) 2,4-Dimethylphenol	11.59	122	143591	7.77	ng	100
11) 2,4-Dichlorophenol	11.97	162	130411	9.02	ng	99
12) Hexachlorobutadiene	12.64	225	78768	8.27	ng	100
16) 2,4-Dinitrophenol	16.66	184	29527	56.07	ng	# 62
18) Hexachlorobenzene	19.00	284	109800	8.91	ng	92
19) Pentachlorophenol	19.44	266	82545	36.91	ng	96
21) Benzidine	21.97	184	788717	22.57	ng	99
23) Benzo(a)anthracene	23.64	228	3506007	9.07	ng	93
24) 3,3'-Dichlorobenzidine	23.63	252	316067	11.26	ng	96
25) Chrysene	23.69	228	3279131	8.83	ng	95
26) Indeno(1,2,3-cd)pyrene	26.76	276	955979	9.91	ng	99
28) Benzo(b)fluoranthene	24.92	252	814057	10.52	ng	97
29) Benzo(k)fluoranthene	24.95	252	916163	9.08	ng	99
30) Benzo(a)pyrene	25.28	252	792692	10.69	ng	99
31) Dibenzo(a,h)anthracene	26.78	278	797830	10.56	ng	99

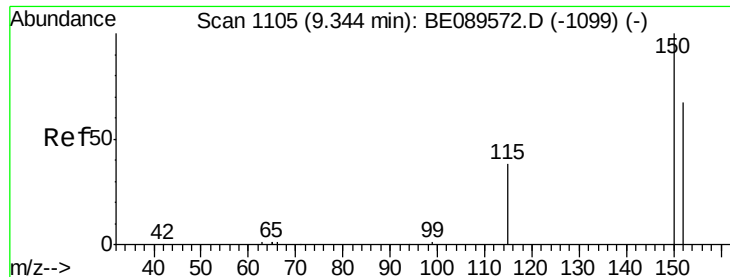
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1104

Delta R.T. -0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

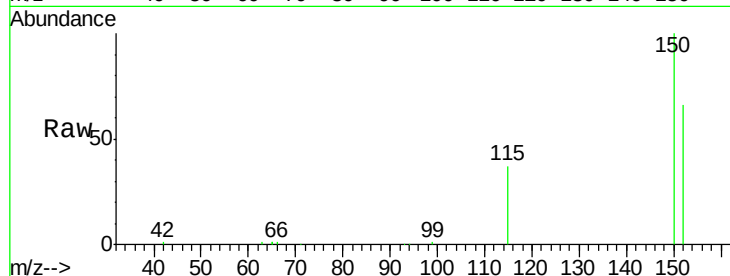
Tgt Ion:152 Resp: 81930

Ion Ratio Lower Upper

152 100

150 151.6 120.2 180.2

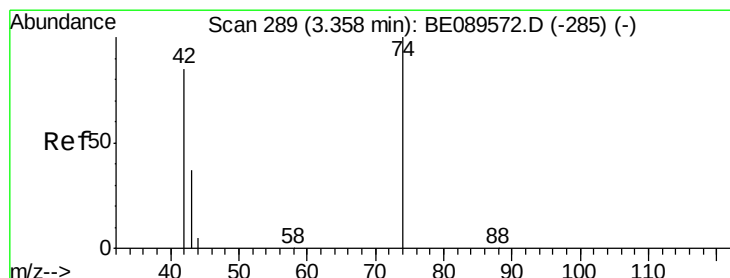
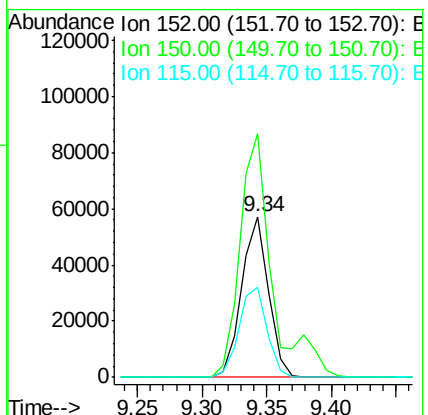
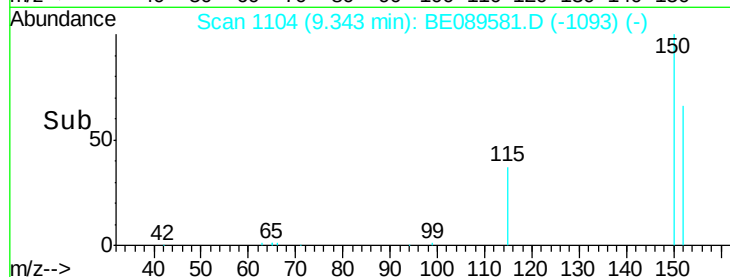
115 55.7 45.2 67.8



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: 7.00 ng

RT: 3.31 min Scan# 282

Delta R.T. -0.05 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

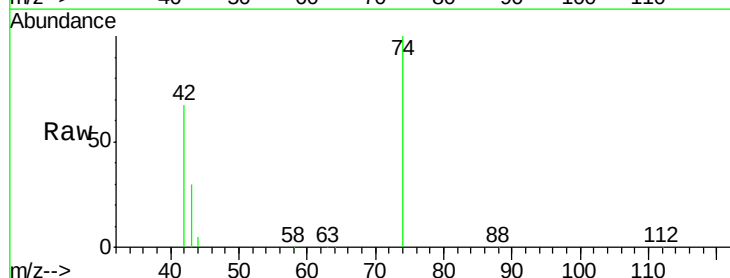
Tgt Ion: 42 Resp: 90940

Ion Ratio Lower Upper

42 100

74 150.0 90.1 135.1#

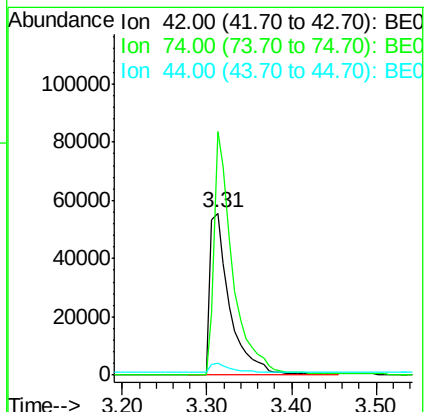
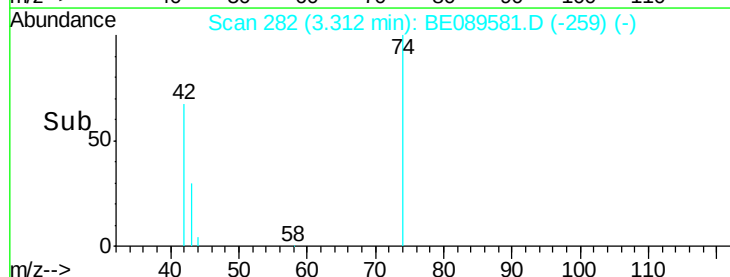
44 7.8 35.0 52.4#

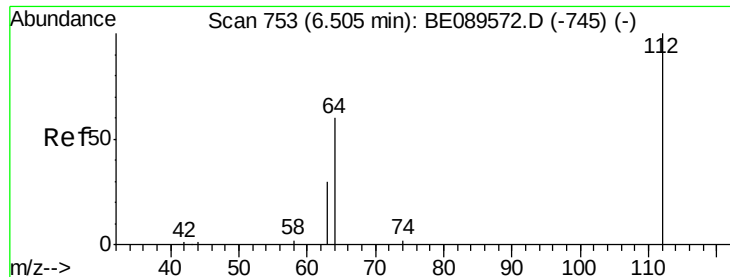


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

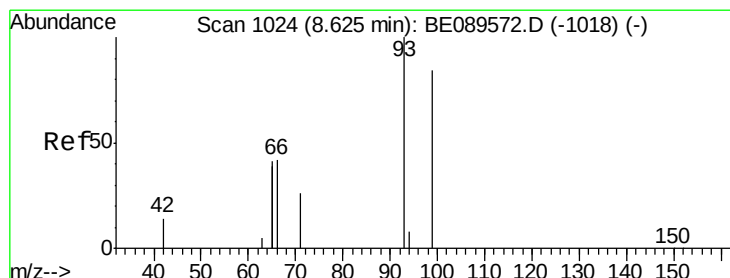
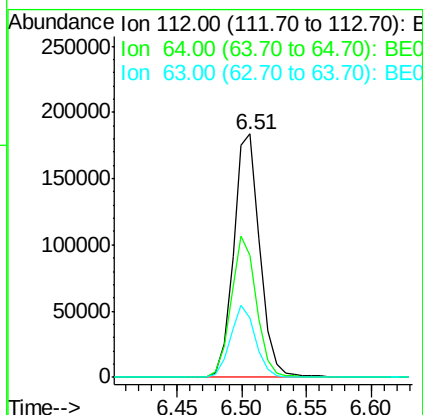
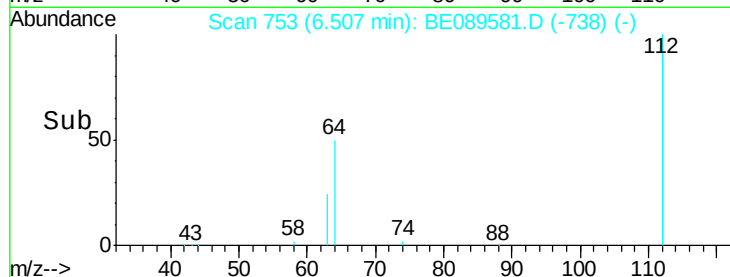
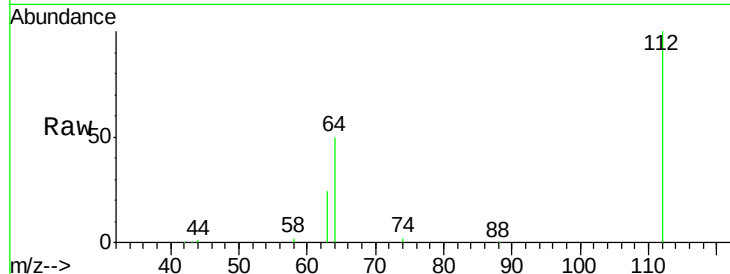




#3
 2-Fluorophenol
 Concen: 10.95 ng
 RT: 6.51 min Scan# 753
 Delta R.T. 0.00 min
 Lab File: BE089581.D
 Acq: 16 Feb 2015 23:03

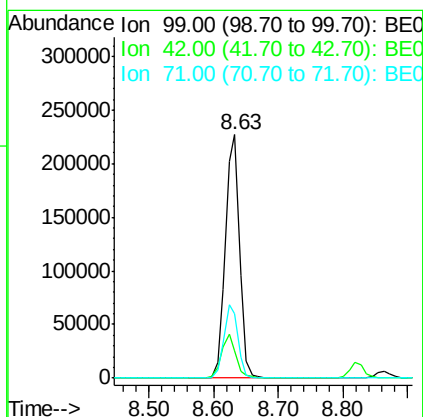
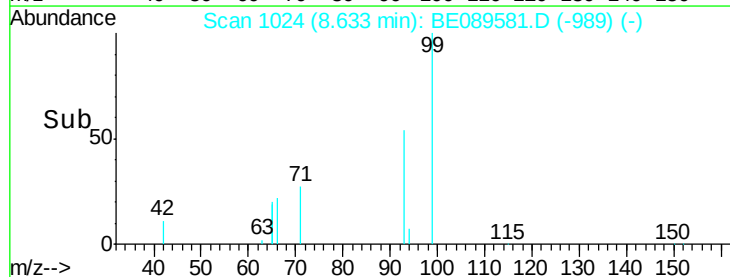
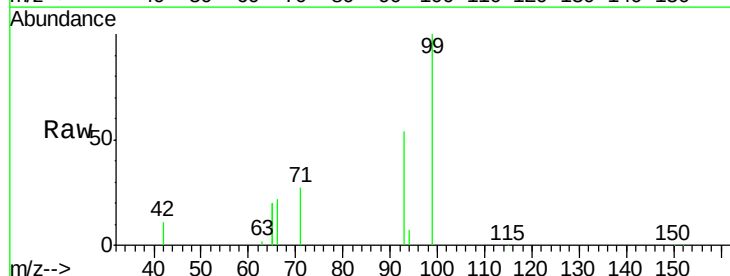
Instrument :
 BNA_E
 ClientSampleID :
 PB81705BSD

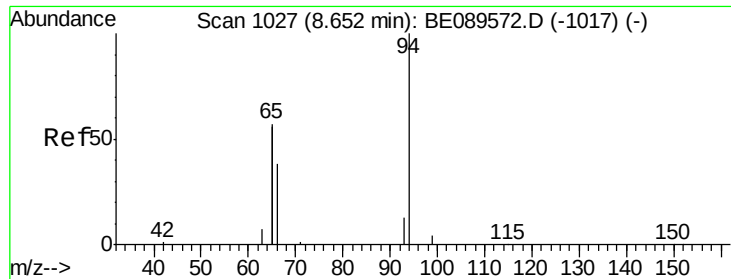
Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.4	48.6	72.8
63	24.1	24.6	37.0



#4
 Phenol-d6
 Concen: 10.99 ng
 RT: 8.63 min Scan# 1024
 Delta R.T. 0.01 min
 Lab File: BE089581.D
 Acq: 16 Feb 2015 23:03

Tgt Ion	Ratio	Lower	Upper
99	100		
42	11.4	13.9	20.9
71	26.7	25.2	37.8





#5

Phenol

Concen: 7.62 ng

RT: 8.66 min Scan# 1027

Delta R.T. 0.01 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

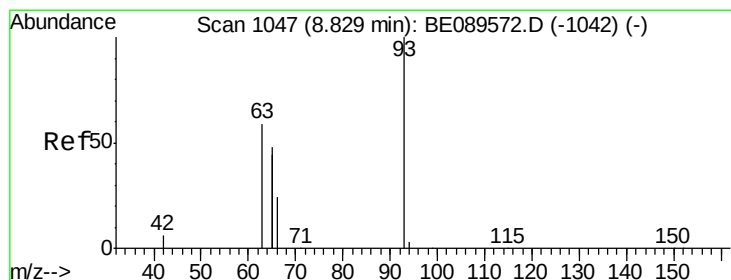
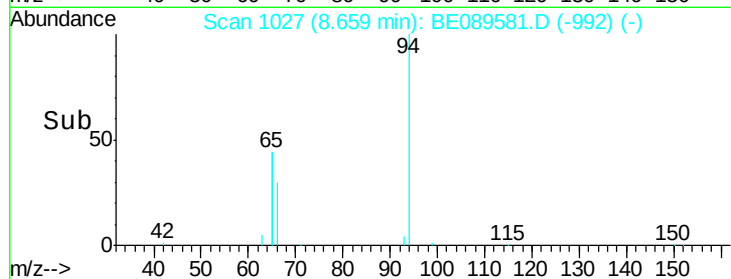
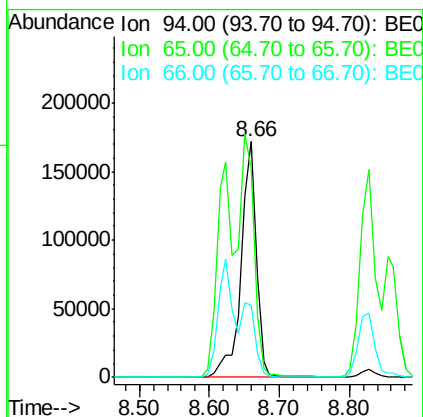
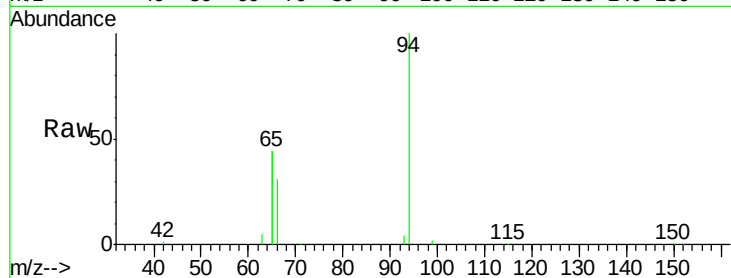
BNA_E

ClientSampleId :

PB81705BSD

Tgt Ion: 94 Resp: 257364

Ion	Ratio	Lower	Upper
94	100		
65	88.4	94.5	134.5#
66	30.5	18.2	58.2



#6

bis(2-Chloroethyl)ether

Concen: 8.24 ng

RT: 8.83 min Scan# 1046

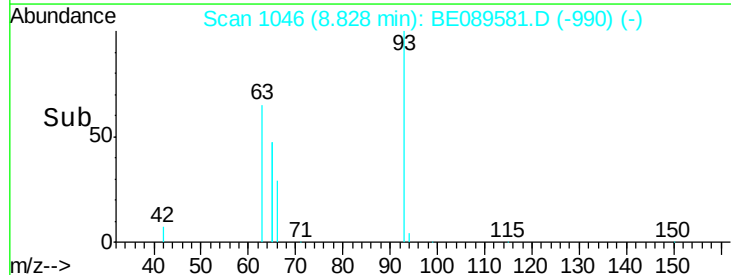
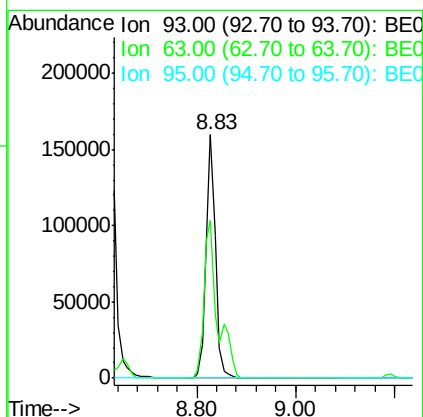
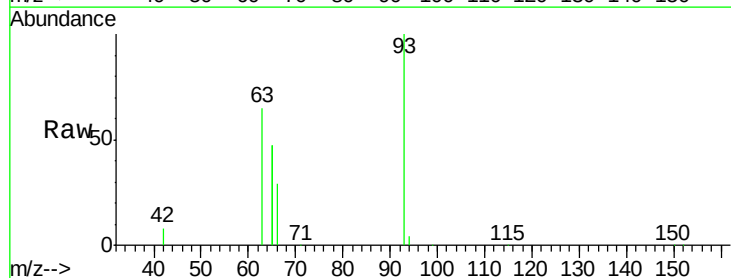
Delta R.T. -0.00 min

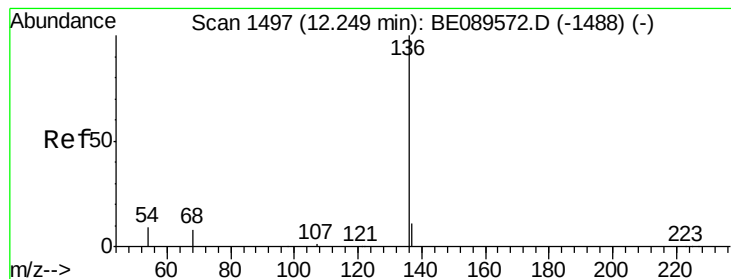
Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Tgt Ion: 93 Resp: 211913

Ion	Ratio	Lower	Upper
93	100		
63	93.7	81.7	122.5
95	0.0	0.0	0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.25 min Scan# 1496

Delta R.T. 0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

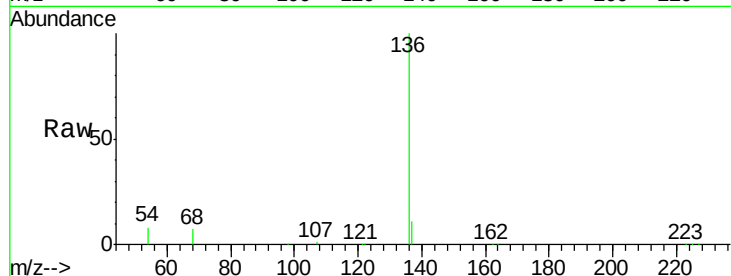
Tgt Ion:136 Resp: 313500

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

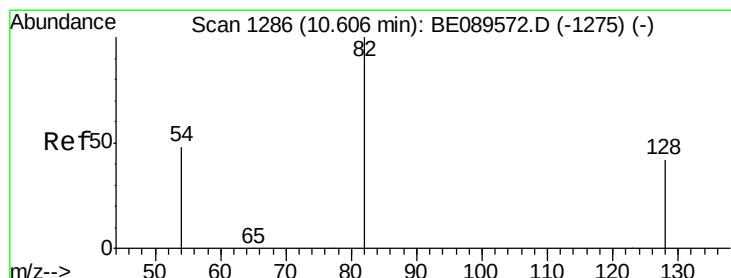
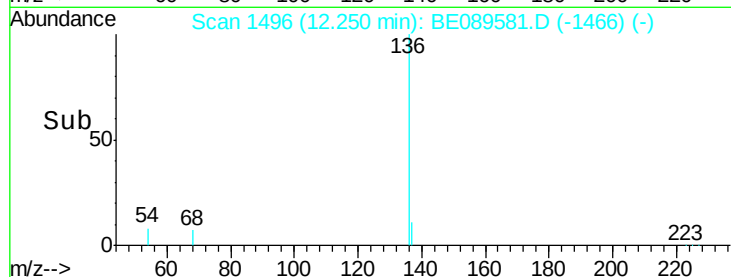
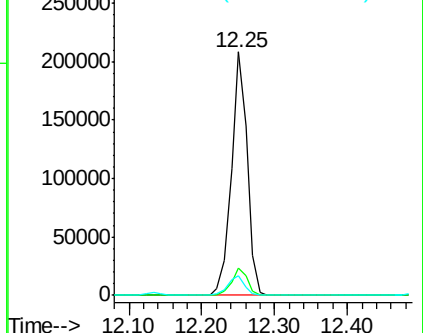
54 7.9 7.0 10.4



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: 11.60 ng

RT: 10.61 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

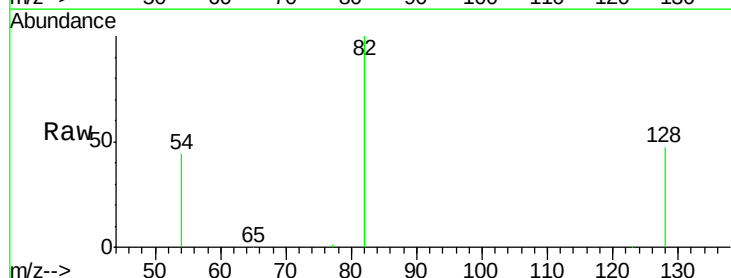
Tgt Ion: 82 Resp: 154588

Ion Ratio Lower Upper

82 100

128 47.1 33.8 50.6

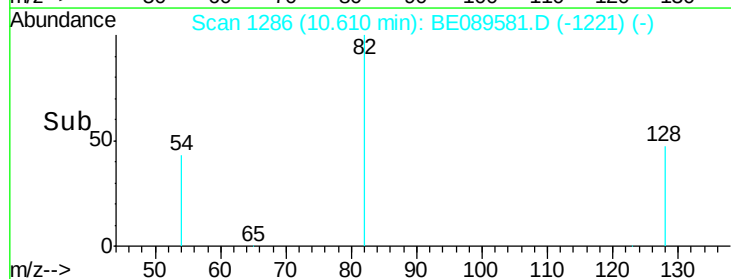
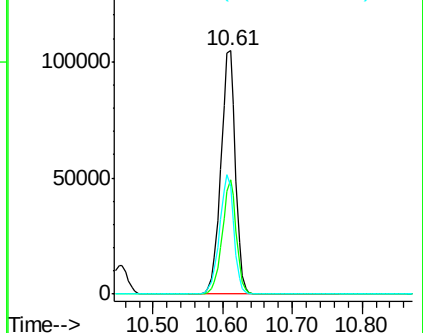
54 44.2 39.0 58.6

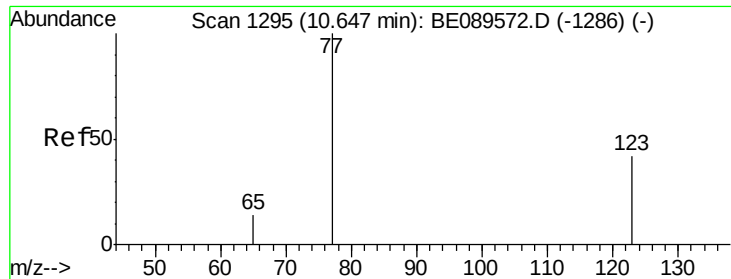


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 11.22 ng

RT: 10.65 min Scan# 1295

Delta R.T. 0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

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ClientSampleId :

PB81705BSD

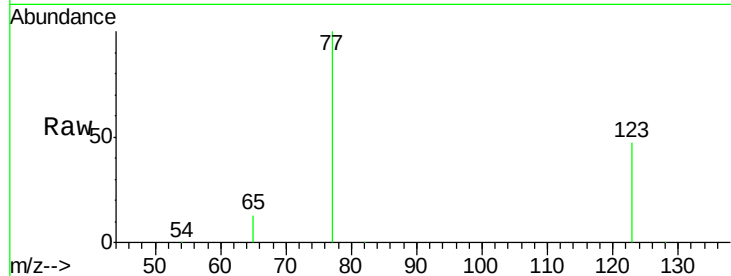
Tgt Ion: 77 Resp: 180612

Ion Ratio Lower Upper

77 100

123 47.6 34.4 51.6

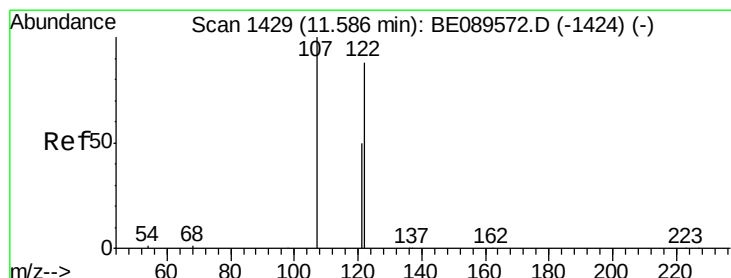
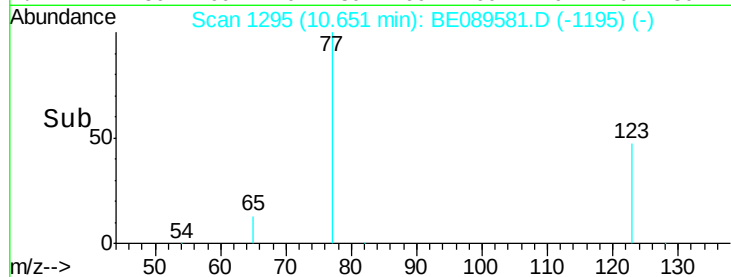
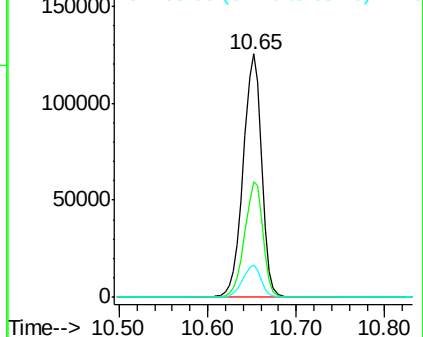
65 13.4 11.4 17.2



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: 7.77 ng

RT: 11.59 min Scan# 1428

Delta R.T. 0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

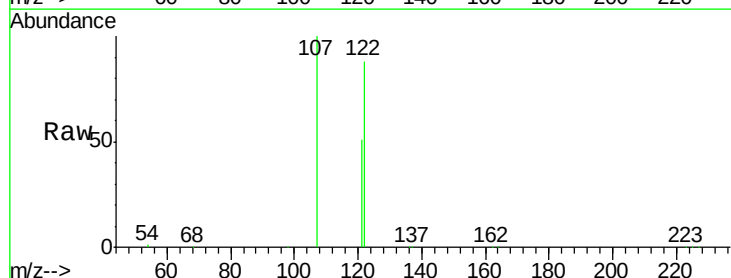
Tgt Ion: 122 Resp: 143591

Ion Ratio Lower Upper

122 100

107 113.6 90.9 136.3

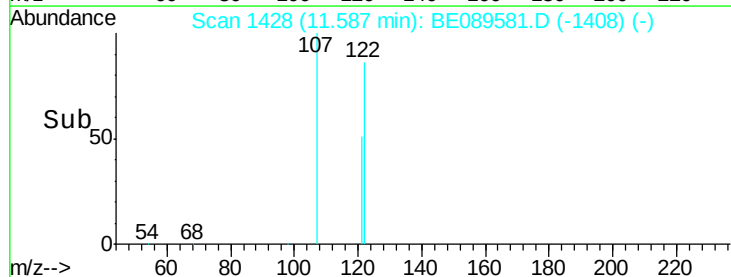
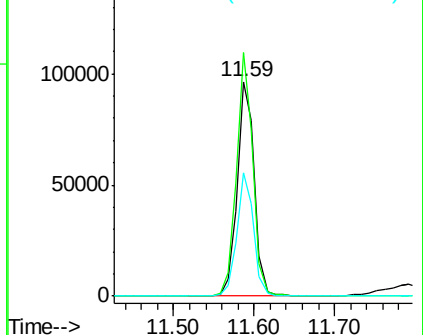
121 57.4 45.4 68.2

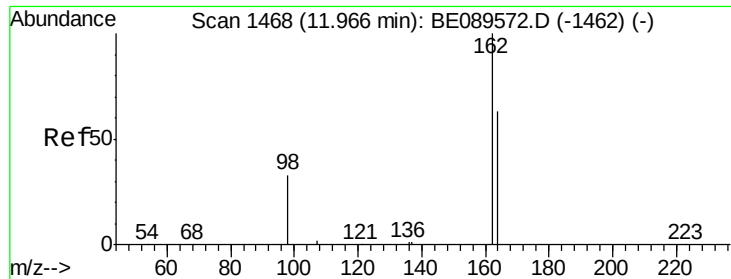


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

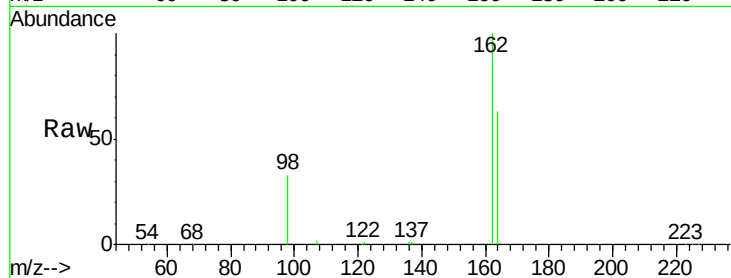




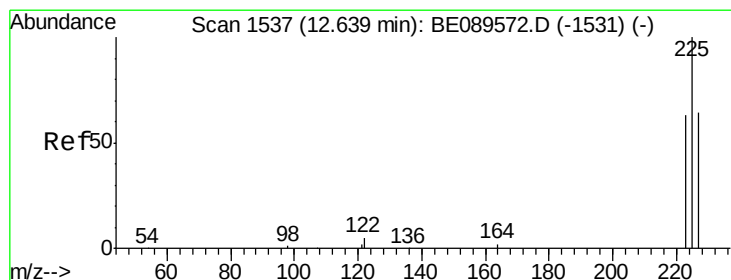
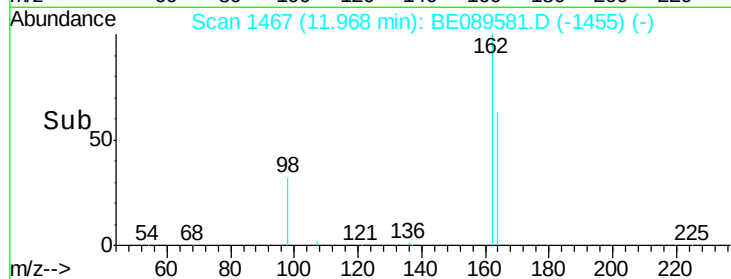
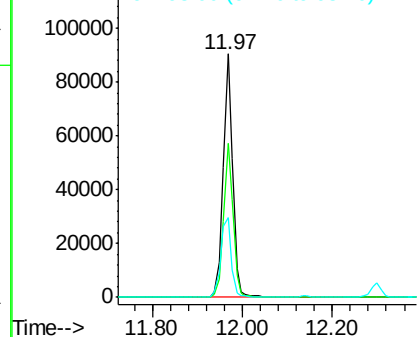
#11
 2,4-Dichlorophenol
 Concen: 9.02 ng
 RT: 11.97 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: BE089581.D
 Acq: 16 Feb 2015 23:03

Instrument :
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Tgt Ion:162 Resp: 130411
 Ion Ratio Lower Upper
 162 100
 164 63.2 43.4 83.4
 98 32.5 14.6 54.6

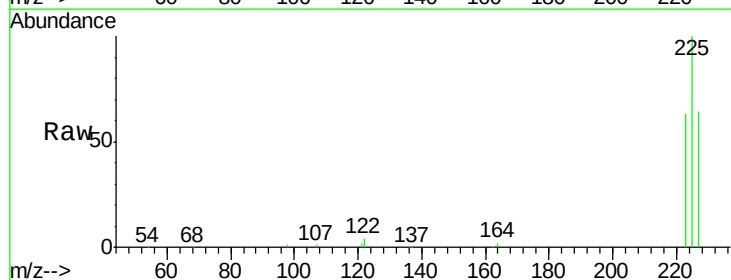


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BE0

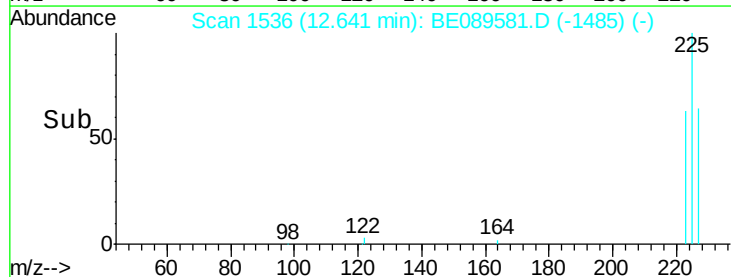
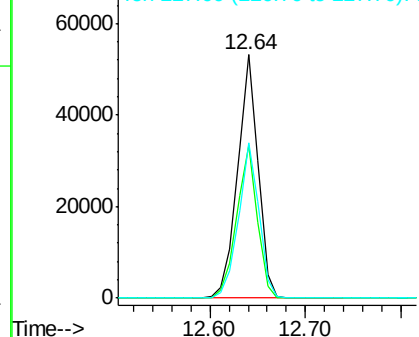


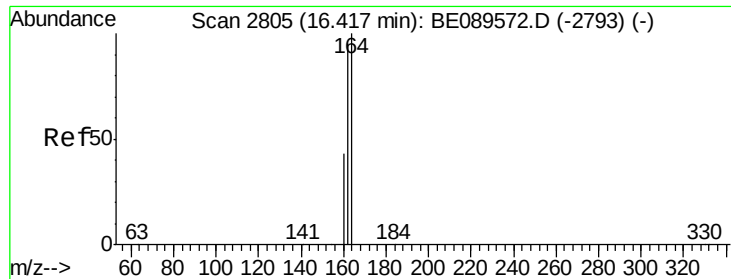
#12
 Hexachlorobutadiene
 Concen: 8.27 ng
 RT: 12.64 min Scan# 1536
 Delta R.T. 0.00 min
 Lab File: BE089581.D
 Acq: 16 Feb 2015 23:03

Tgt Ion:225 Resp: 78768
 Ion Ratio Lower Upper
 225 100
 223 62.9 50.4 75.6
 227 63.8 51.0 76.6



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: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

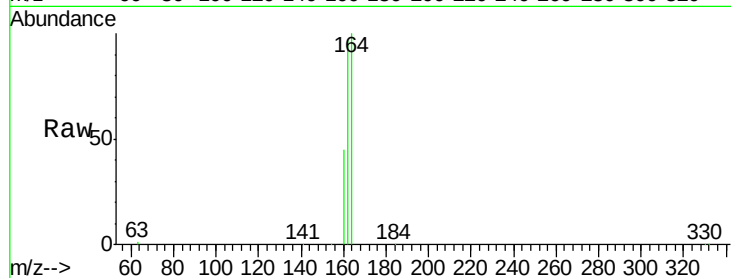
Tgt Ion:164 Resp: 151417

Ion Ratio Lower Upper

164 100

162 96.8 76.2 114.4

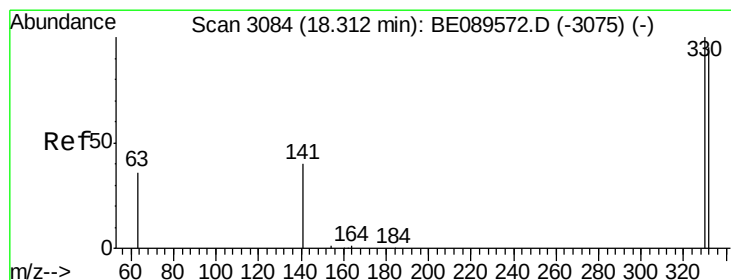
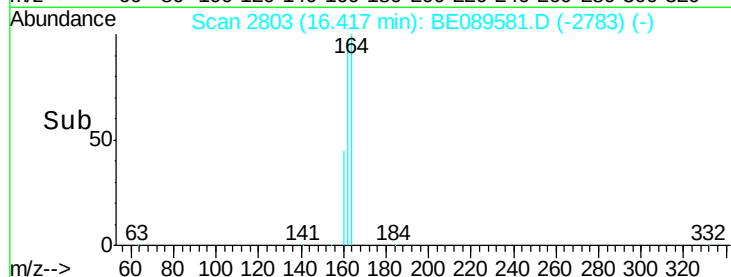
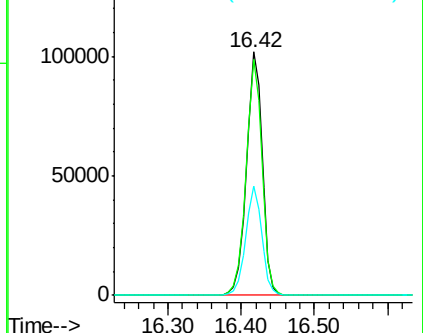
160 44.6 34.7 52.1



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: 16.40 ng

RT: 18.32 min Scan# 3083

Delta R.T. 0.01 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

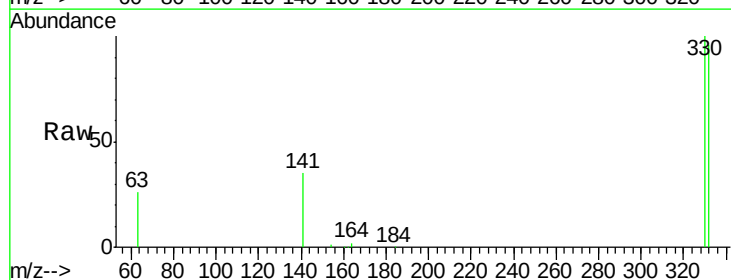
Tgt Ion:330 Resp: 55945

Ion Ratio Lower Upper

330 100

332 97.0 78.3 117.5

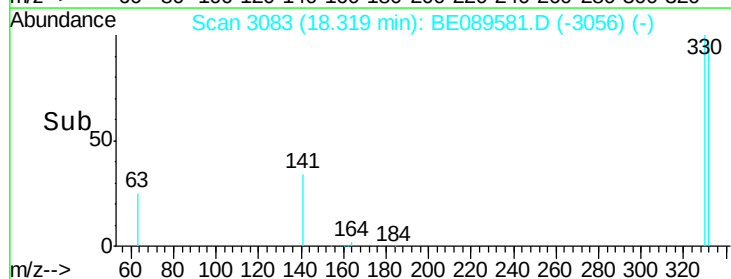
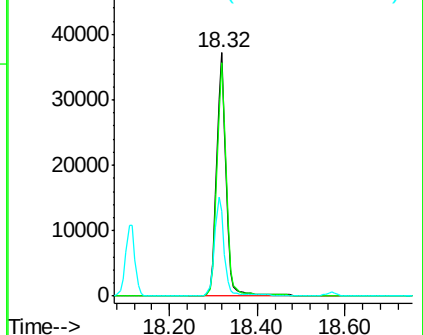
141 41.2 33.4 50.0

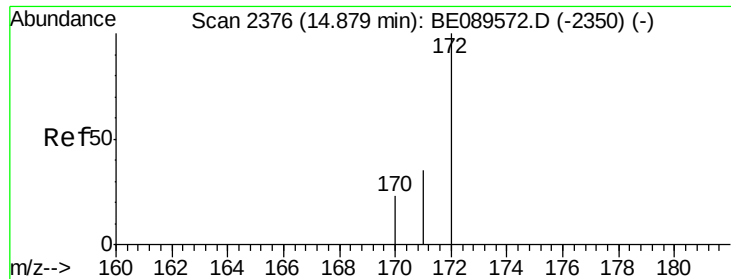


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

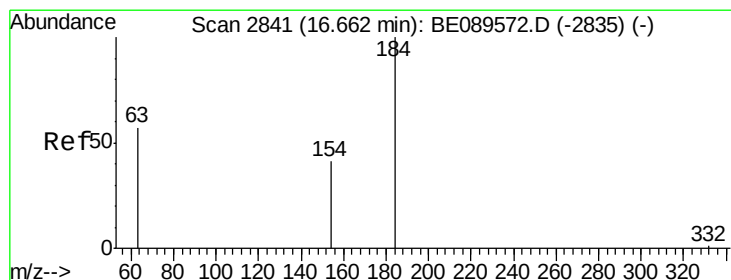
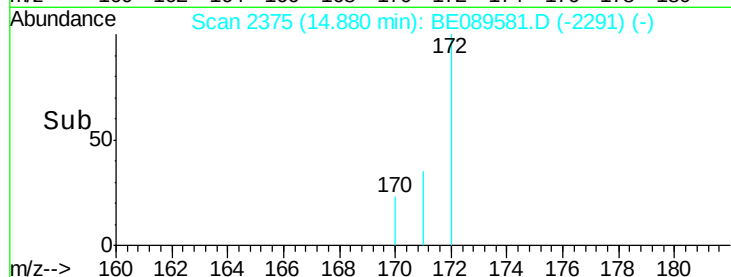
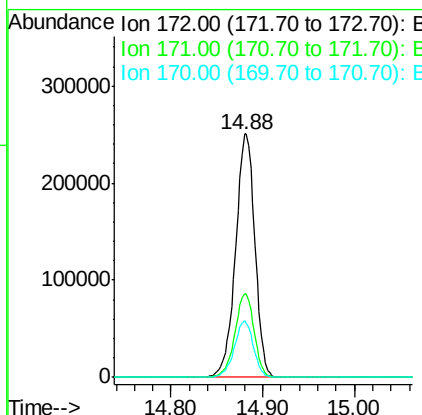
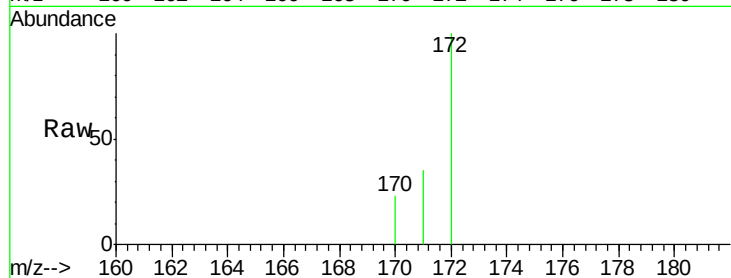




#15
2-Fluorobiphenyl
Concen: 8.92 ng
RT: 14.88 min Scan# 2375
Delta R.T. 0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

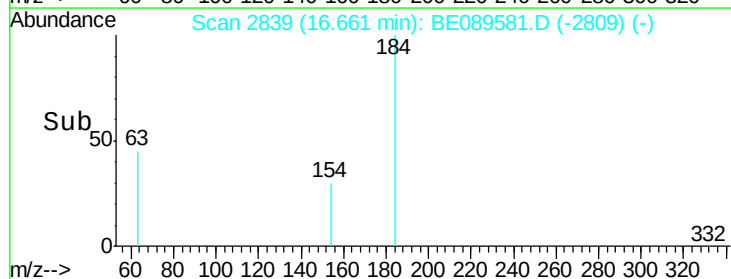
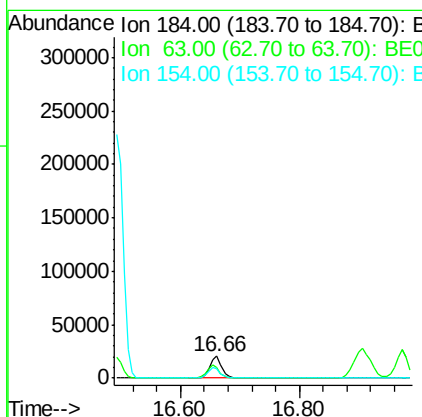
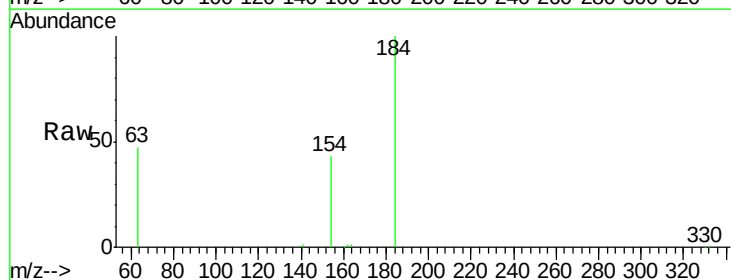
Instrument :
BNA_E
ClientSampleId :
PB81705BSD

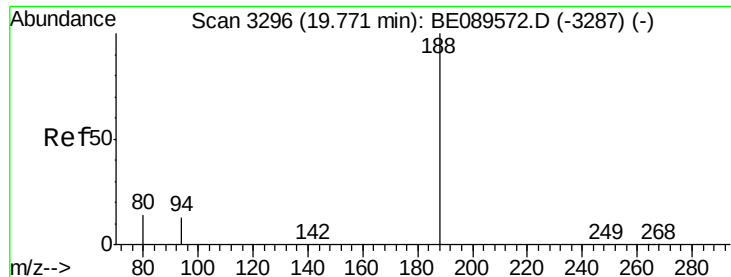
Tgt Ion:172 Resp: 364851
Ion Ratio Lower Upper
172 100
171 34.6 27.8 41.6
170 23.1 18.5 27.7



#16
2,4-Dinitrophenol
Concen: 56.07 ng
RT: 16.66 min Scan# 2839
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:184 Resp: 29527
Ion Ratio Lower Upper
184 100
63 47.0 70.8 106.2#
154 42.6 52.9 79.3#

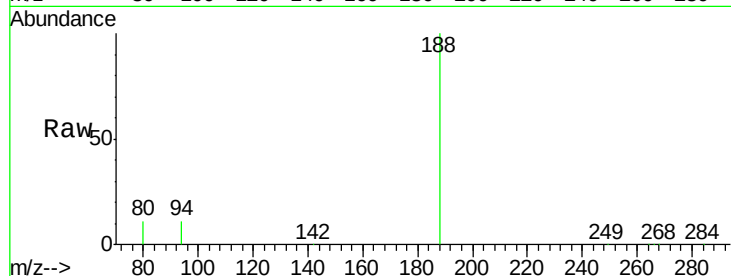




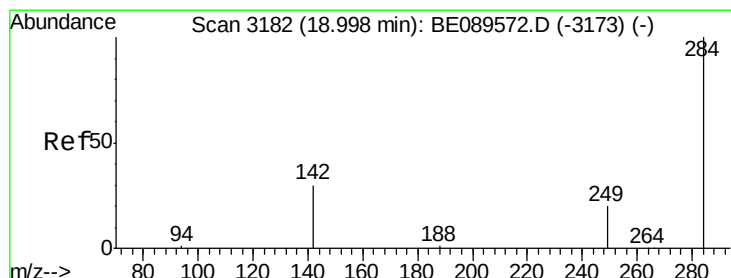
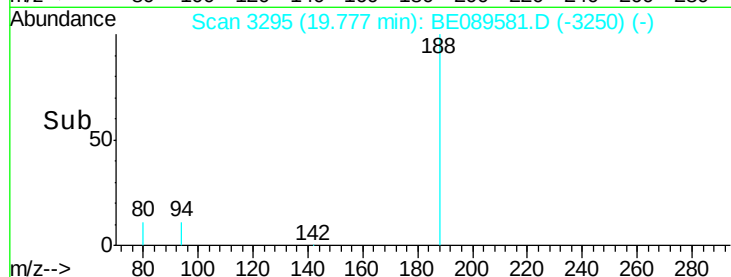
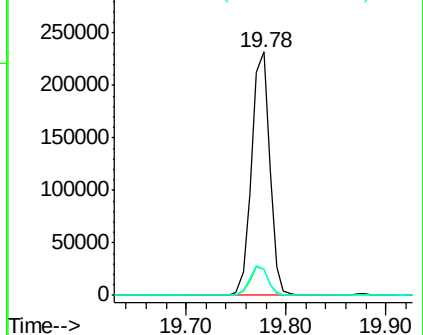
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.78 min Scan# 3295
Delta R.T. 0.01 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Instrument :
BNA_E
ClientSampleId :
PB81705BSD

Tgt Ion:188 Resp: 293118
Ion Ratio Lower Upper
188 100
94 10.7 10.2 15.4
80 10.7 11.0 16.6#

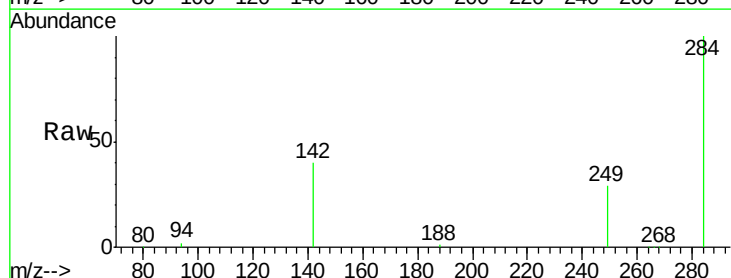


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

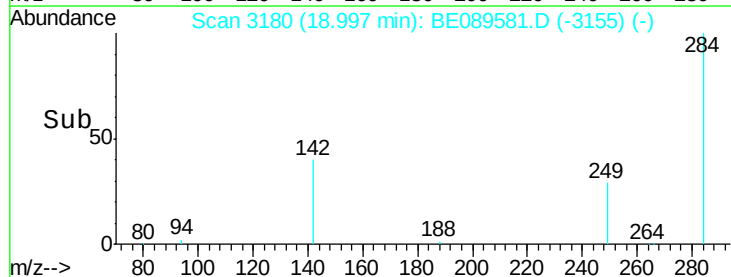
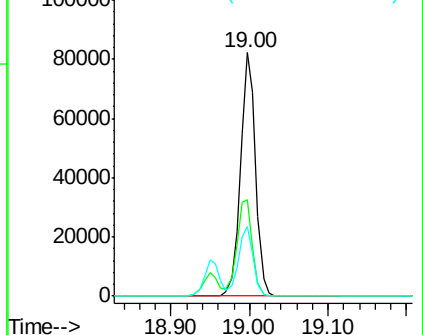


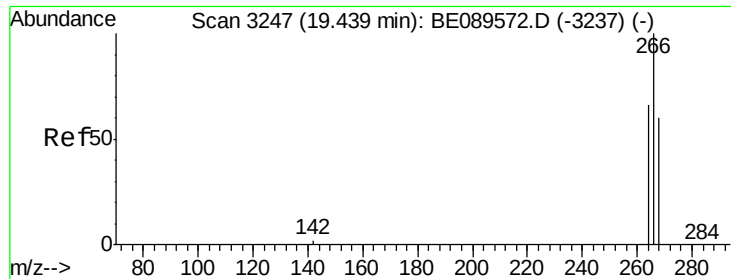
#18
Hexachlorobenzene
Concen: 8.91 ng
RT: 19.00 min Scan# 3180
Delta R.T. -0.00 min
Lab File: BE089581.D
Acq: 16 Feb 2015 23:03

Tgt Ion:284 Resp: 109800
Ion Ratio Lower Upper
284 100
142 39.8 27.6 41.4
249 28.8 20.0 30.0



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: 36.91 ng

RT: 19.44 min Scan# 3245

Delta R.T. -0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

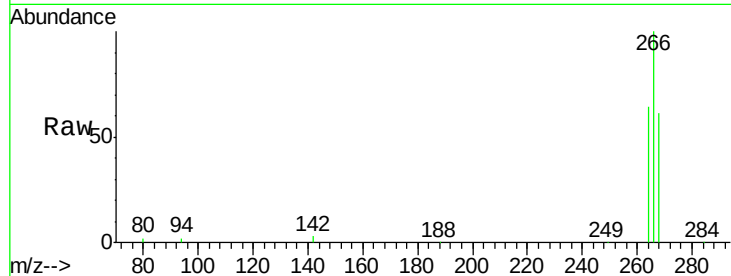
Tgt Ion:266 Resp: 82545

Ion Ratio Lower Upper

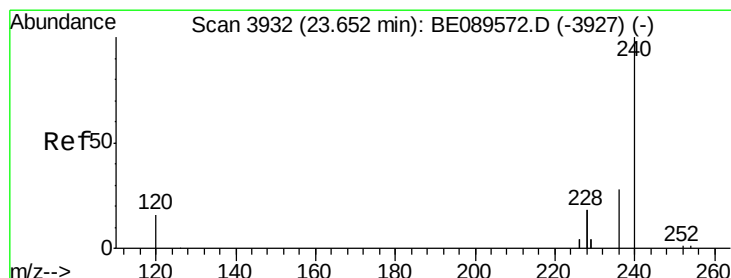
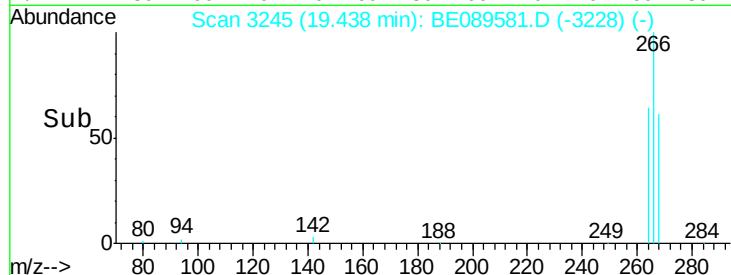
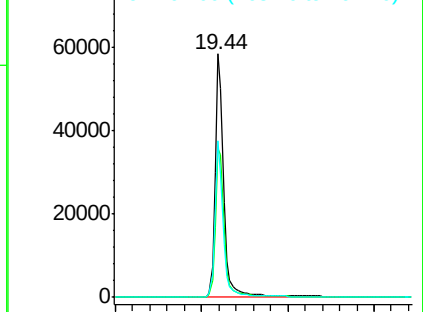
266 100

268 61.1 50.2 75.4

264 64.2 54.4 81.6



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. 0.01 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

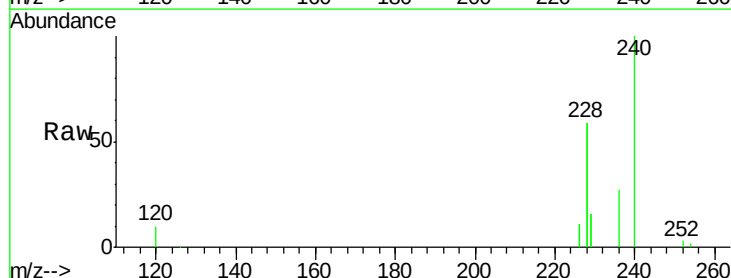
Tgt Ion:240 Resp: 390314

Ion Ratio Lower Upper

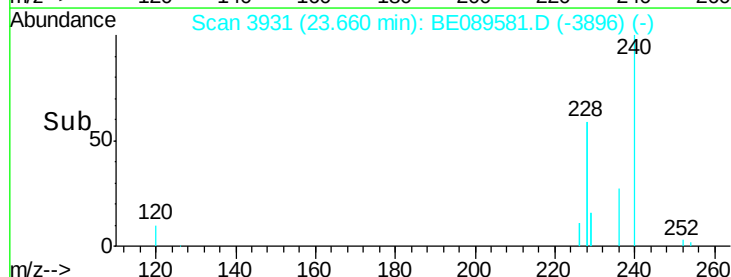
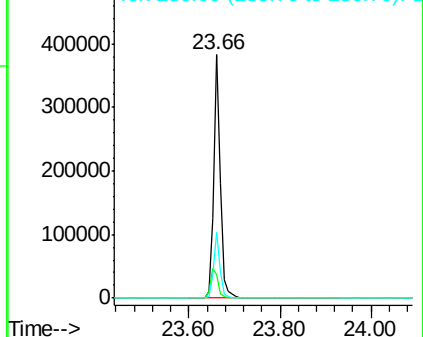
240 100

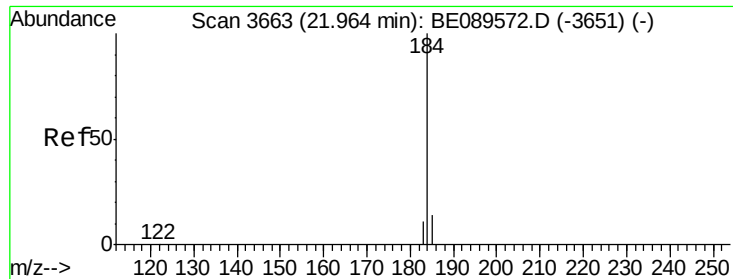
120 9.8 12.7 19.1#

236 27.0 22.7 34.1



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: 22.57 ng

RT: 21.97 min Scan# 3662

Delta R.T. 0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

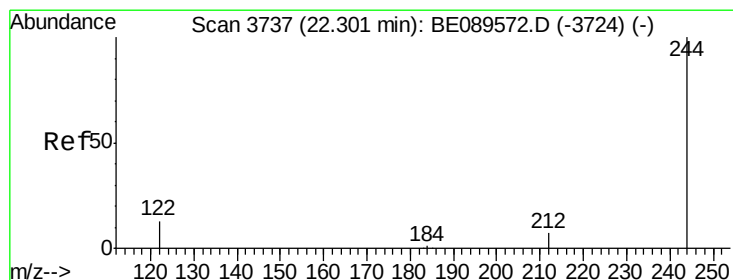
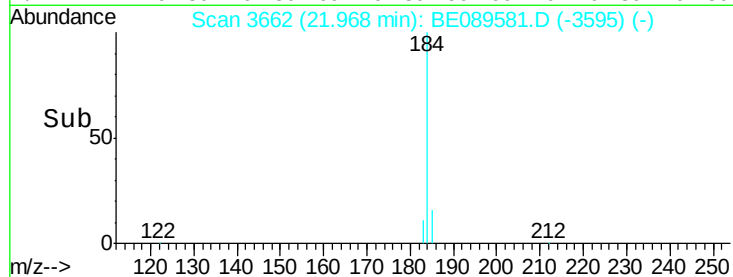
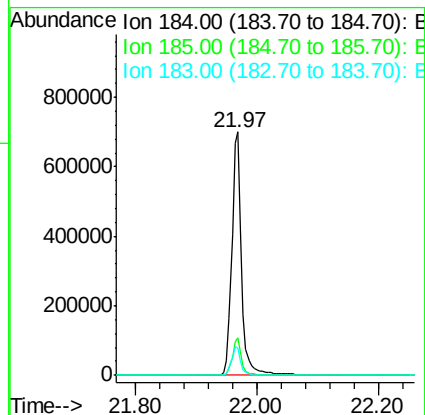
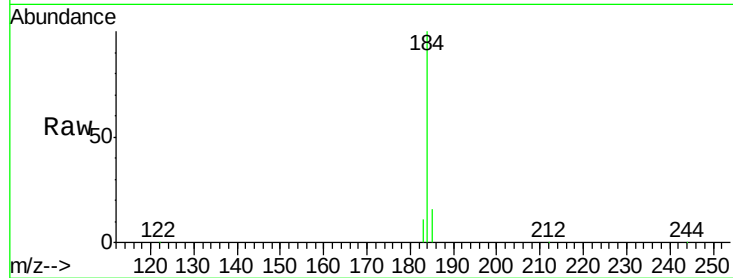
BNA_E

ClientSampleId :

PB81705BSD

Tgt Ion:184 Resp: 788717

Ion	Ratio	Lower	Upper
184	100		
185	15.5	11.7	17.5
183	11.3	8.9	13.3



#22

Terphenyl-d14

Concen: 9.06 ng

RT: 22.31 min Scan# 3736

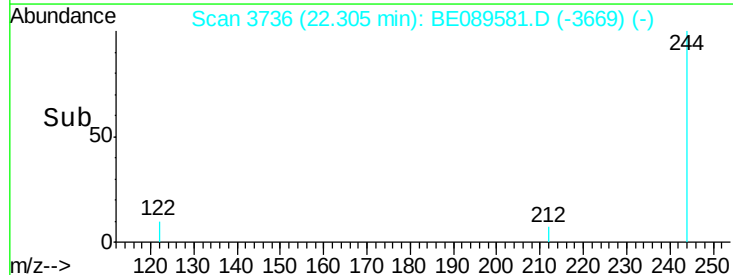
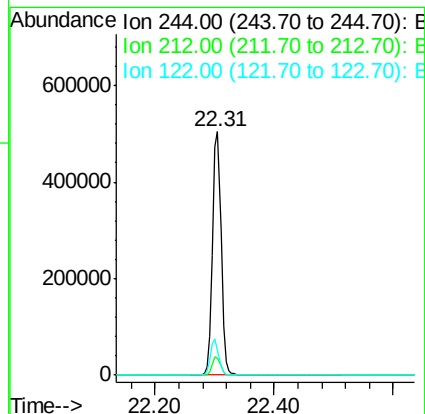
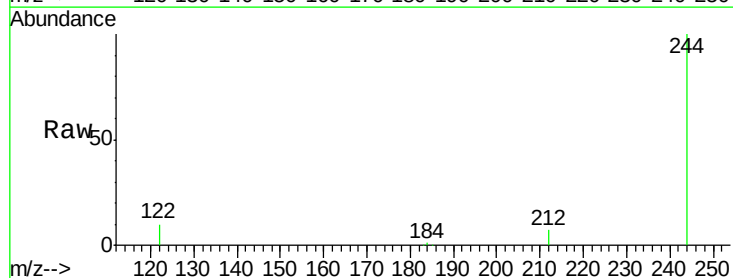
Delta R.T. 0.00 min

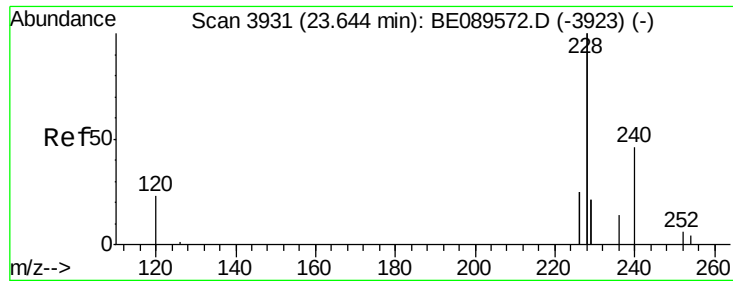
Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Tgt Ion:244 Resp: 487435

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.9	8.9
122	10.2	10.2	15.2





#23

Benzo(a)anthracene

Concen: 9.07 ng

RT: 23.64 min Scan# 3929

Delta R.T. -0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

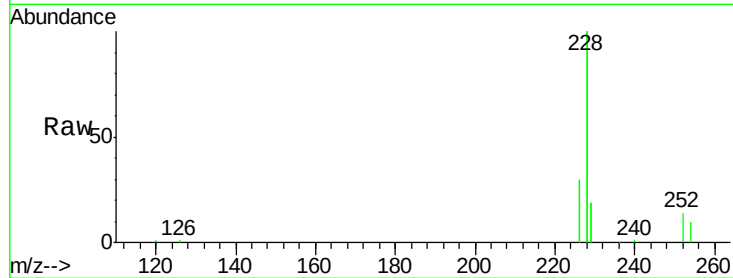
Tgt Ion:228 Resp: 3506007

Ion Ratio Lower Upper

228 100

226 29.8 19.9 29.9

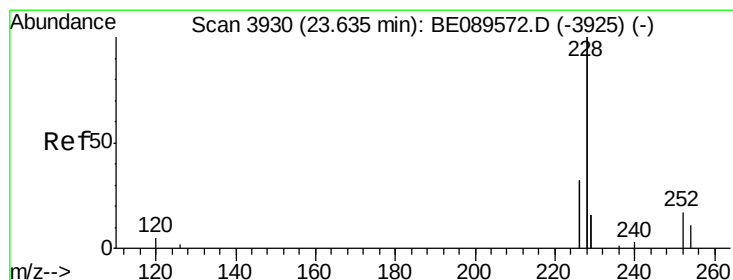
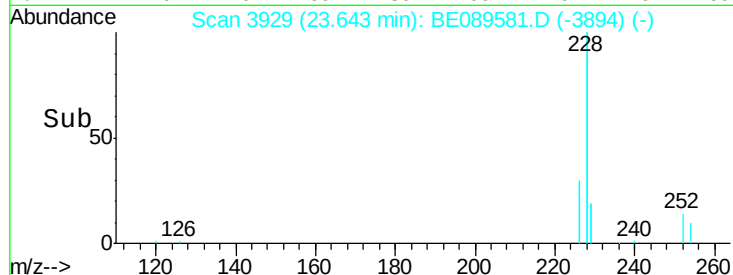
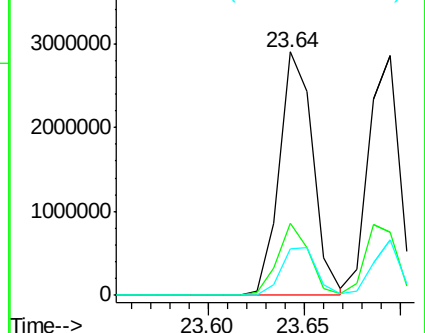
229 18.9 16.6 24.8



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: 11.26 ng

RT: 23.63 min Scan# 3928

Delta R.T. -0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

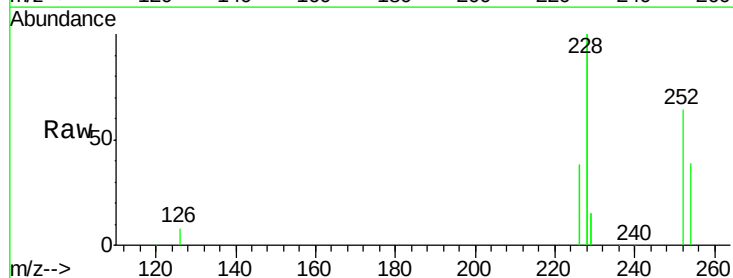
Tgt Ion:252 Resp: 316067

Ion Ratio Lower Upper

252 100

254 61.0 51.0 76.4

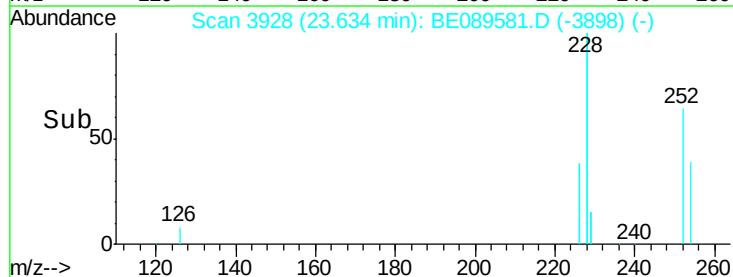
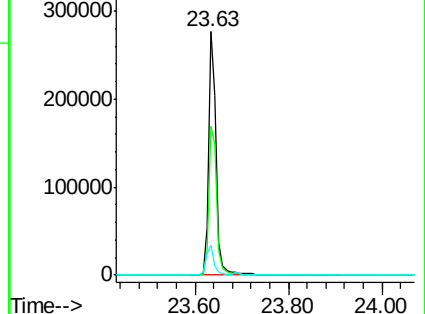
126 12.4 8.3 12.5

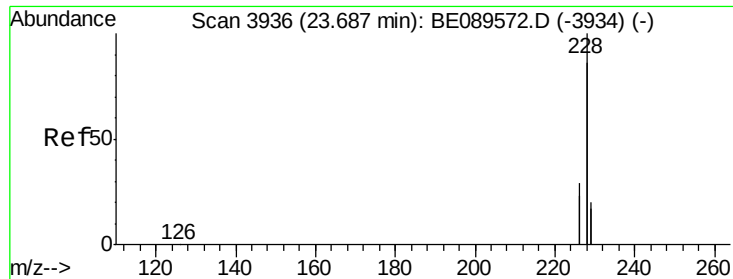


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 8.83 ng

RT: 23.69 min Scan# 3935

Delta R.T. 0.01 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

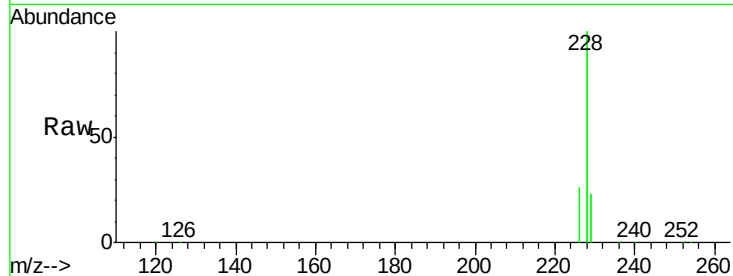
Tgt Ion: 228 Resp: 3279131

Ion Ratio Lower Upper

228 100

226 26.4 22.9 34.3

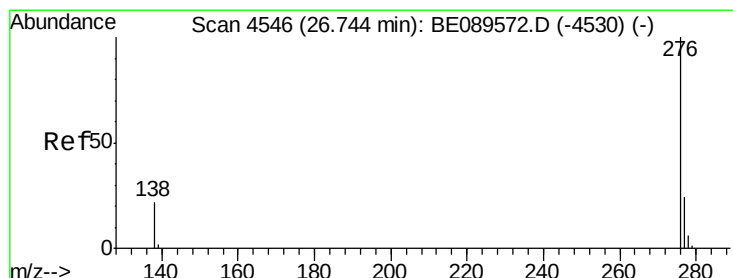
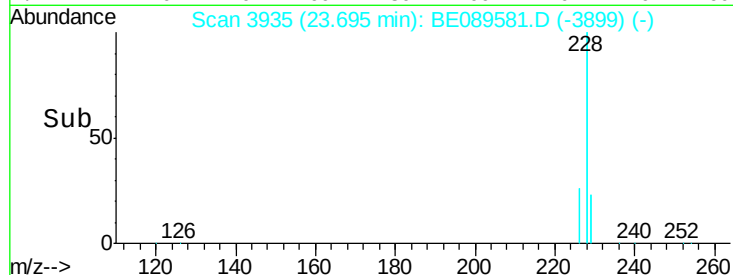
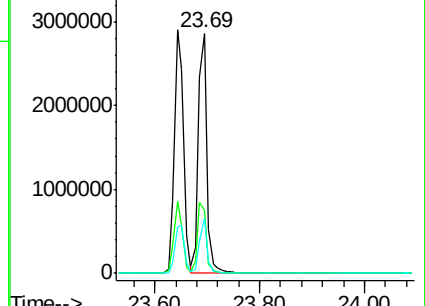
229 23.0 15.8 23.6



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 9.91 ng

RT: 26.76 min Scan# 4547

Delta R.T. 0.01 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

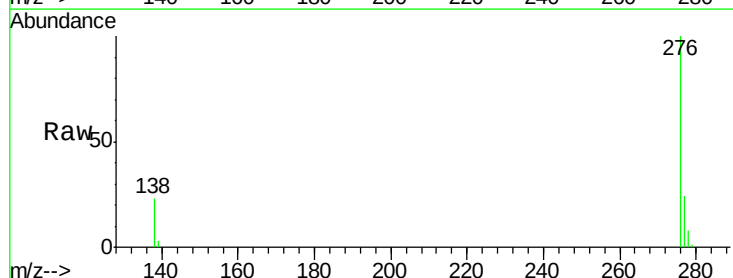
Tgt Ion: 276 Resp: 955979

Ion Ratio Lower Upper

276 100

138 27.5 22.1 33.1

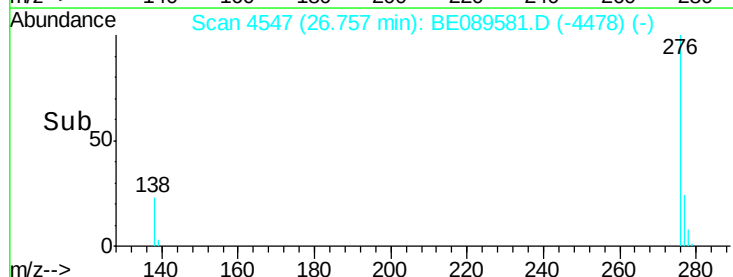
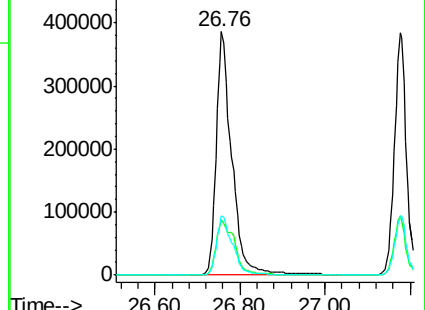
277 25.5 19.4 29.2

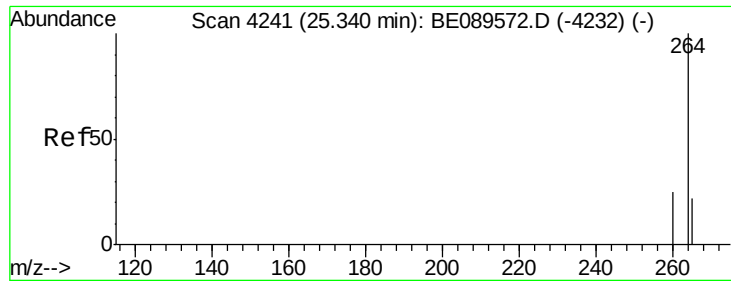


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

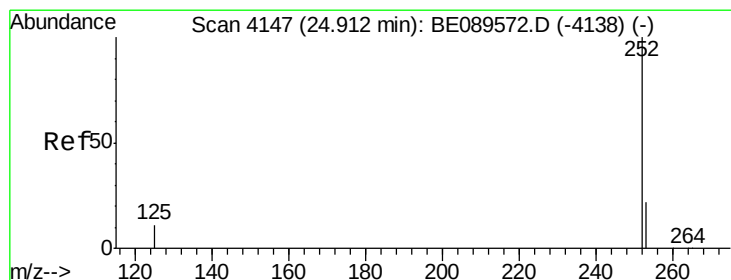
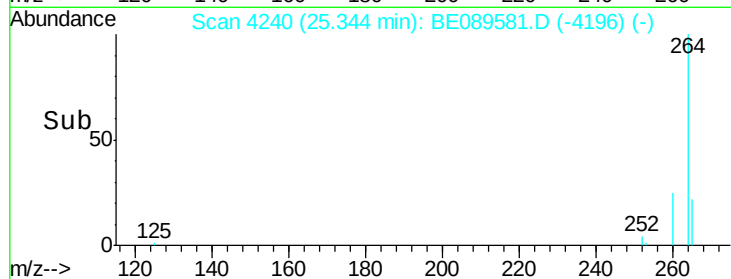
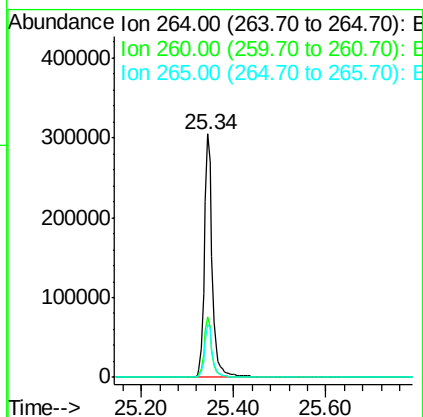
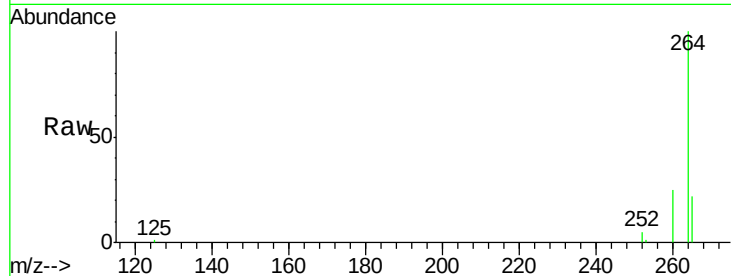




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4240
 Delta R.T. 0.00 min
 Lab File: BE089581.D
 Acq: 16 Feb 2015 23:03

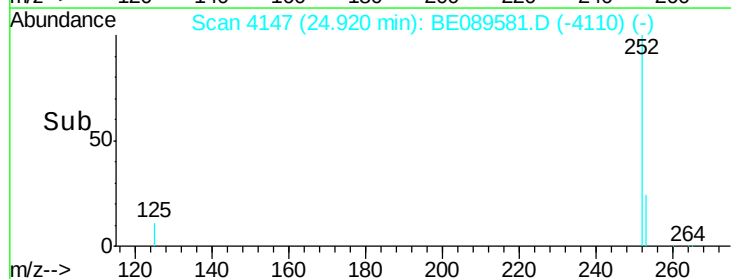
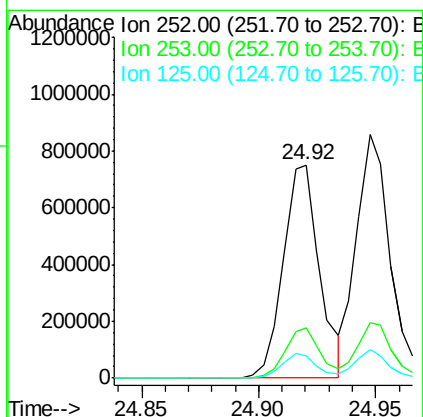
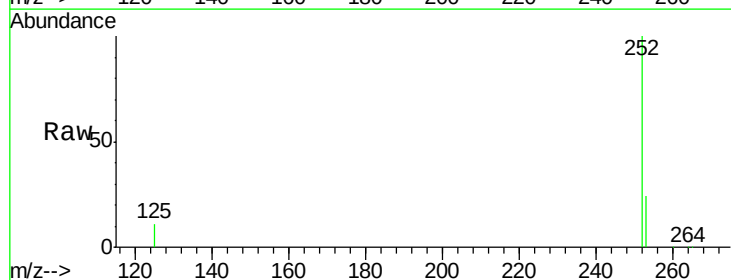
Instrument :
 BNA_E
 ClientSampleId :
 PB81705BSD

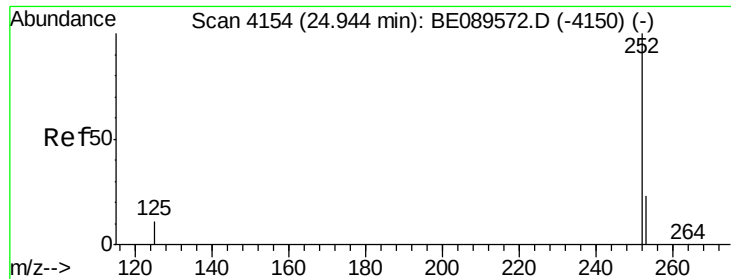
Tgt Ion: 264 Resp: 357370
 Ion Ratio Lower Upper
 264 100
 260 25.1 19.8 29.6
 265 21.7 17.5 26.3



#28
Benzo(b)fluoranthene
 Concen: 10.52 ng
 RT: 24.92 min Scan# 4147
 Delta R.T. 0.01 min
 Lab File: BE089581.D
 Acq: 16 Feb 2015 23:03

Tgt Ion: 252 Resp: 814057
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.5 26.3
 125 10.7 9.0 13.4





#29

Benzo(k)fluoranthene

Concen: 9.08 ng

RT: 24.95 min Scan# 4153

Delta R.T. 0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD

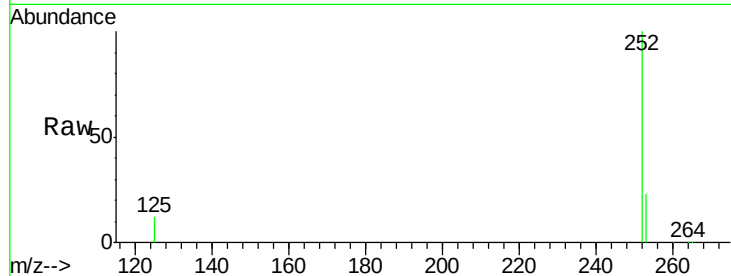
Tgt Ion:252 Resp: 916163

Ion Ratio Lower Upper

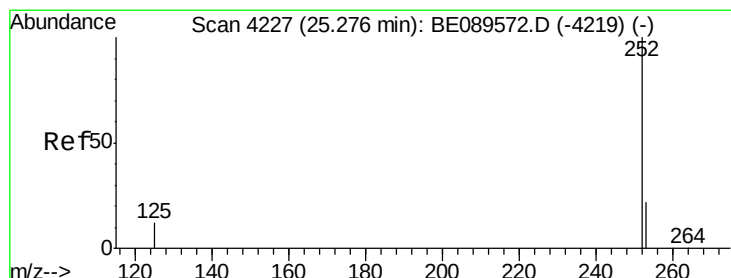
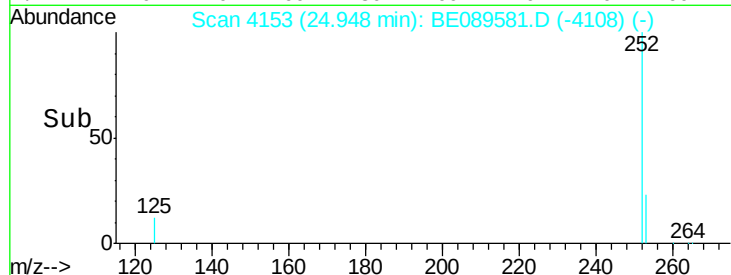
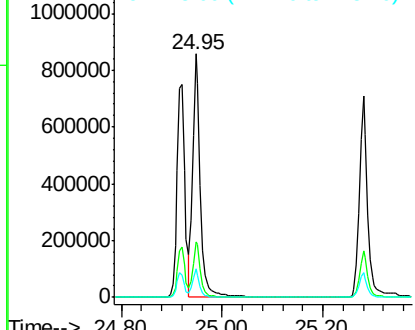
252 100

253 22.8 18.2 27.2

125 11.7 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: 10.69 ng

RT: 25.28 min Scan# 4226

Delta R.T. 0.00 min

Lab File: BE089581.D

Acq: 16 Feb 2015 23:03

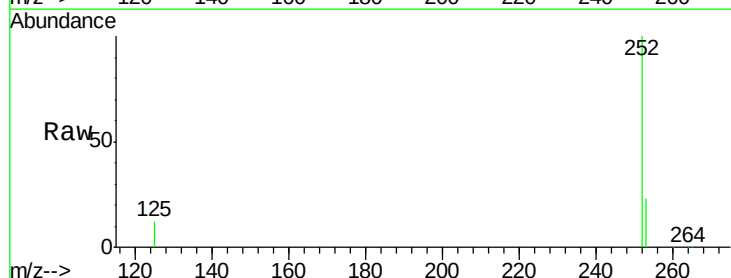
Tgt Ion:252 Resp: 792692

Ion Ratio Lower Upper

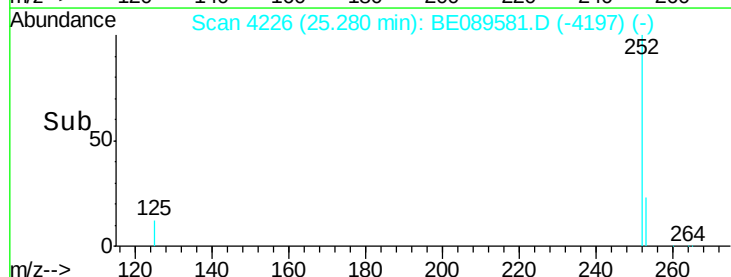
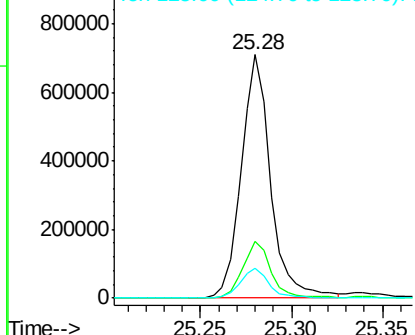
252 100

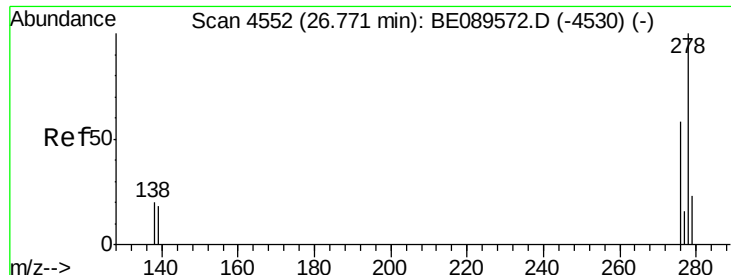
253 23.1 17.9 26.9

125 12.3 9.5 14.3



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





#31

Dibenzo(a,h)anthracene

Concen: 10.56 ng

RT: 26.78 min Scan# 4553

Delta R.T. 0.01 min

Lab File: BE089581.D

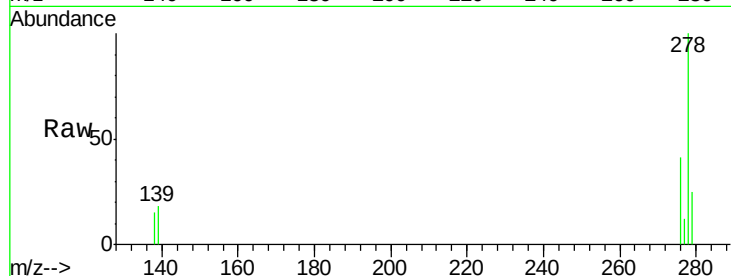
Acq: 16 Feb 2015 23:03

Instrument :

BNA_E

ClientSampleId :

PB81705BSD



Tgt Ion: 278 Resp: 797830

Ion Ratio Lower Upper

278 100

139 18.0 14.7 22.1

279 24.6 19.0 28.4

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

