

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089687.D
 Acq On : 25 Feb 2015 3:20
 Operator : TP/JJ
 Sample : PB81861BL
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BL

Quant Time: Feb 25 06:25:07 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	37622	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	177807	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	84212	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	124782	5.00	ng	0.00
19) Chrysene-d12	23.66	240	77638	5.00	ng	0.00
25) Perylene-d12	25.34	264	58974	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	77788	7.40	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	169804	9.07	ng	0.00
21) Terphenyl-d14	22.30	244	98423	10.81	ng	0.00

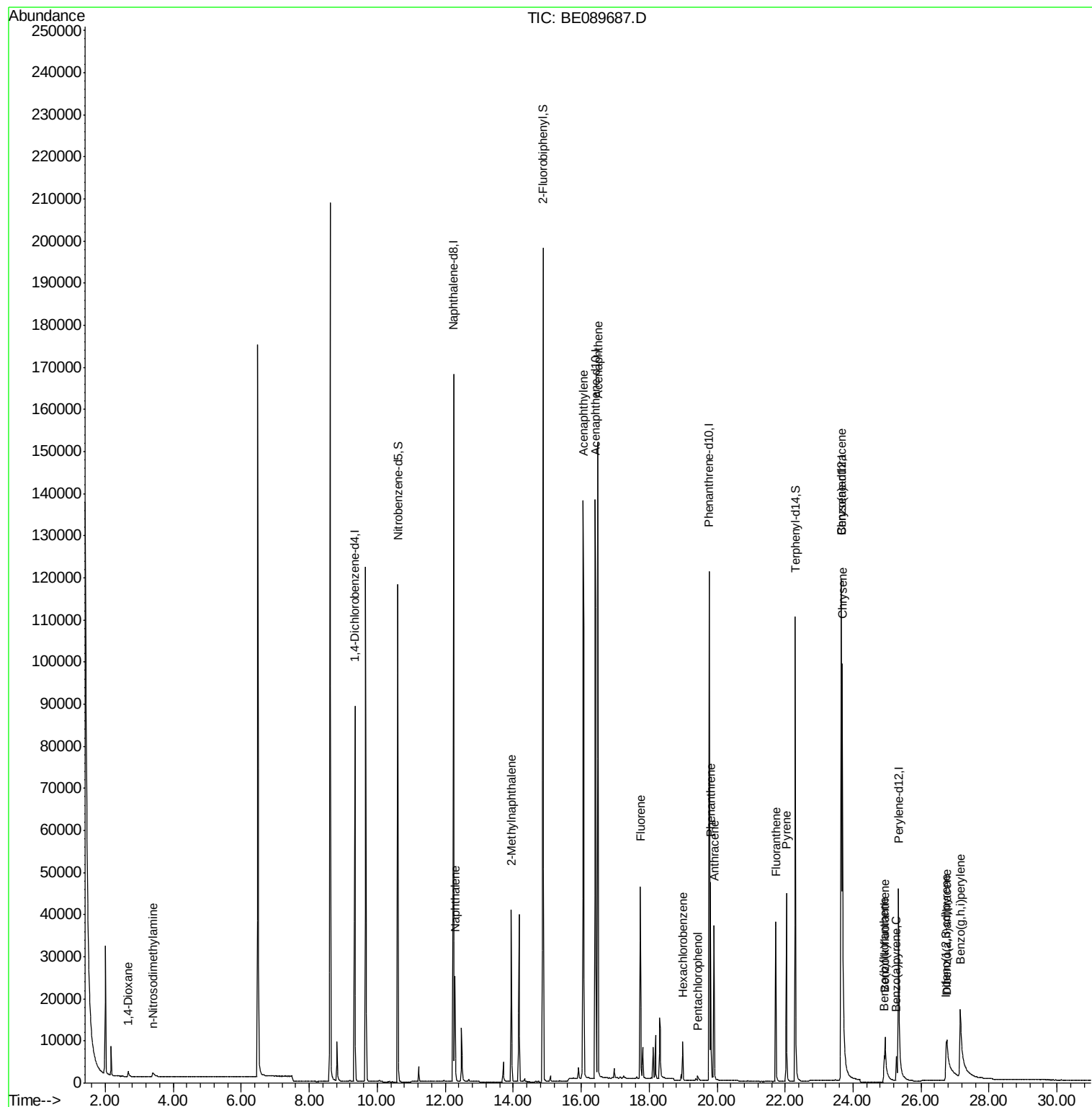
Target Compounds						Qvalue
2) 1,4-Dioxane	2.67	88	1181	0.25	ng	90
3) n-Nitrosodimethylamine	3.39	42	1892	0.37	ng	# 98
6) Naphthalene	12.29	128	28736	0.84	ng	100
7) 2-Methylnaphthalene	13.95	142	25814	1.32	ng	99
10) Acenaphthylene	16.06	152	181239	1.50	ng	100
11) Acenaphthene	16.49	154	28536	1.49	ng	98
12) Fluorene	17.74	166	31847	1.50	ng	99
14) Hexachlorobenzene	18.99	284	5599	1.73	ng	97
15) Pentachlorophenol	19.43	266	1164	2.49	ng	96
16) Phenanthrene	19.81	178	42121	1.58	ng	100
17) Anthracene	19.91	178	37306	1.65	ng	99
18) Fluoranthene	21.72	202	29968	1.35	ng	100
20) Pyrene	22.04	202	32596	1.74	ng	100
22) Benzo(a)anthracene	23.65	228	69277	1.36	ng	99
23) Chrysene	23.68	228	123888	1.76	ng	99
24) Indeno(1,2,3-cd)pyrene	26.74	276	37397	1.35	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	6097	1.17	ng	99
27) Benzo(k)fluoranthene	24.94	252	23941	1.53	ng	99
28) Benzo(a)pyrene	25.27	252	8620	1.62	ng	97
29) Dibenzo(a,h)anthracene	26.77	278	6820	1.33	ng	# 91
30) Benzo(g,h,i)perylene	27.16	276	48835	1.45	ng	96

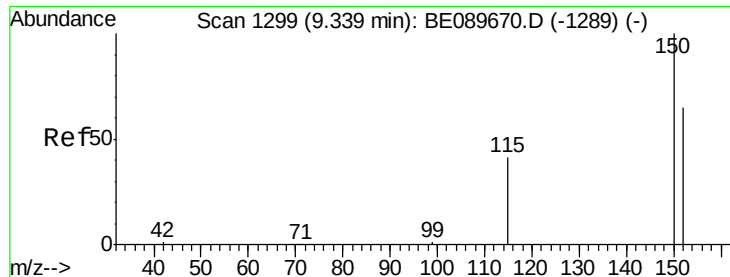
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

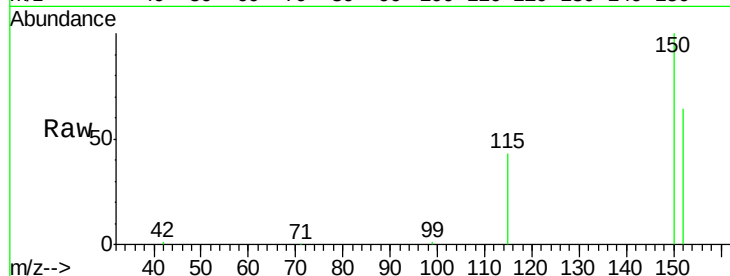
Tgt Ion: 152 Resp: 37622

Ion Ratio Lower Upper

152 100

150 155.2 123.4 185.0

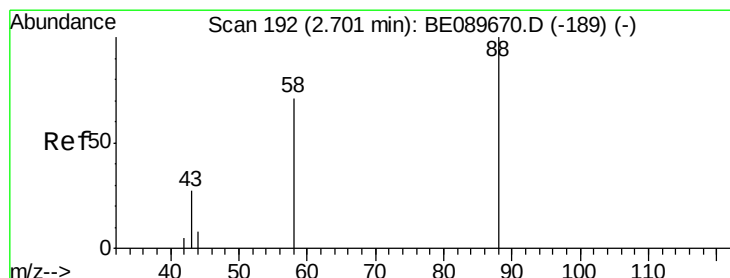
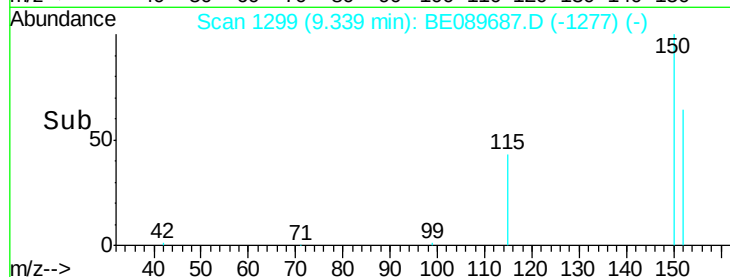
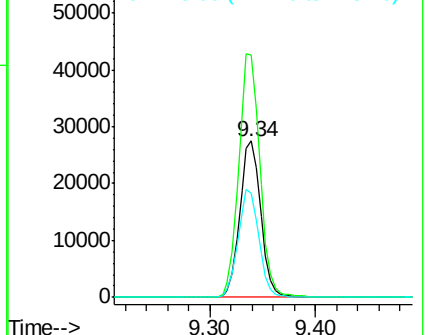
115 66.6 50.8 76.2



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

1,4-Dioxane

Concen: 0.25 ng

RT: 2.67 min Scan# 187

Delta R.T. -0.03 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

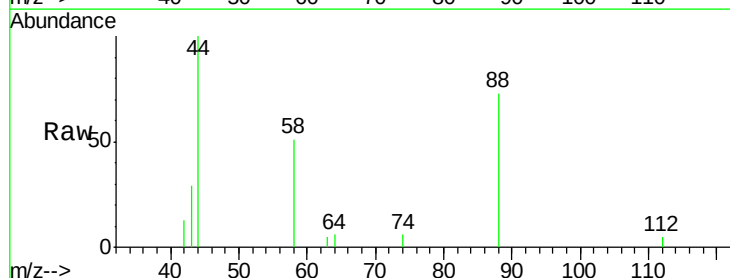
Tgt Ion: 88 Resp: 1181

Ion Ratio Lower Upper

88 100

58 89.9 62.4 93.6

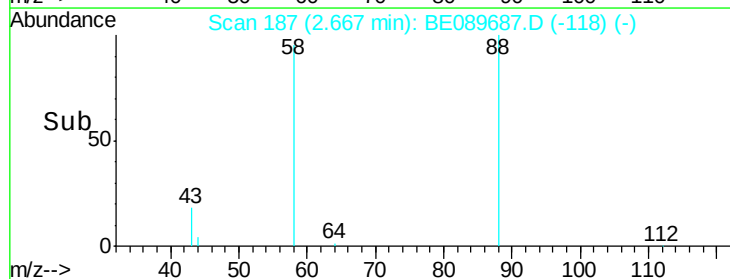
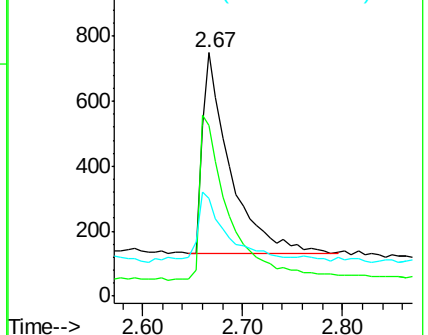
43 33.4 26.6 40.0

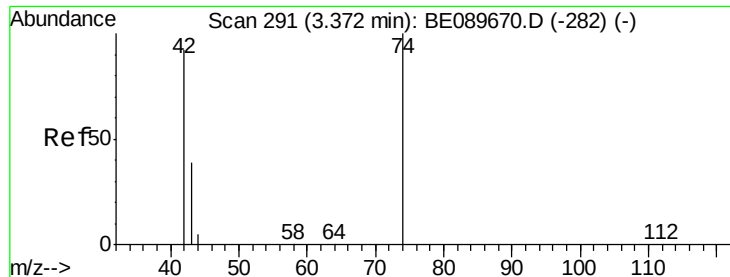


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



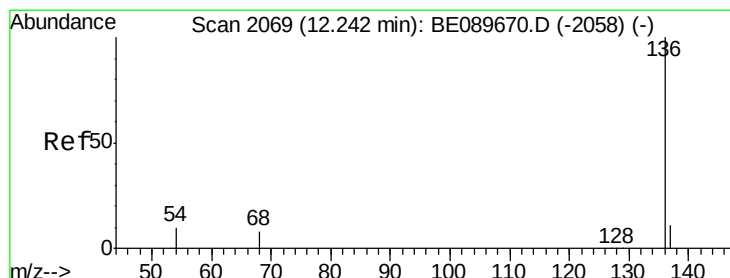
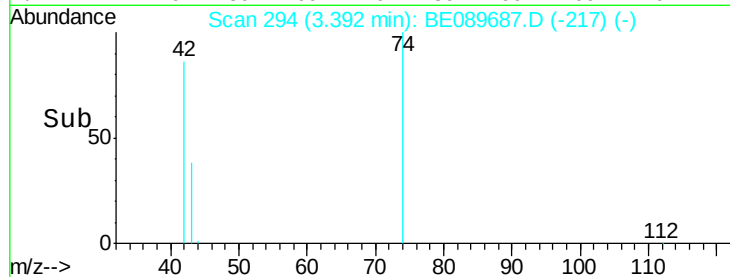
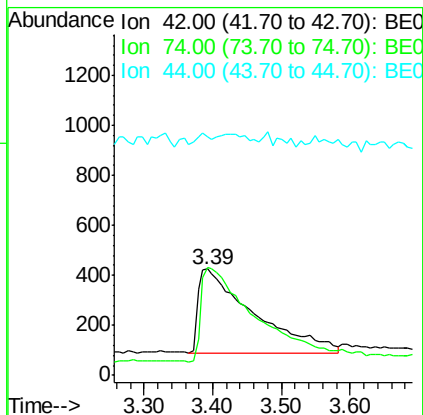
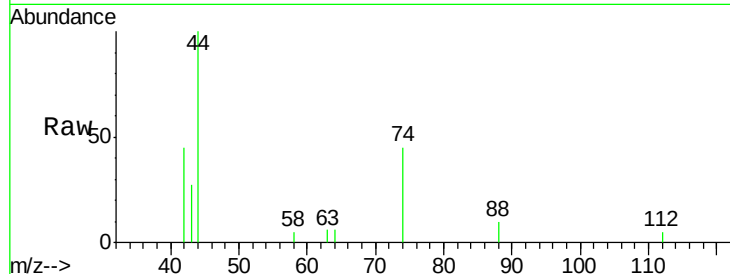


#3

n-Nitrosodimethylamine
 Concen: 0.37 ng
 RT: 3.39 min Scan# 294
 Delta R.T. 0.02 min
 Lab File: BE089687.D
 Acq: 25 Feb 2015 3:20

Instrument :
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 PB81861BL

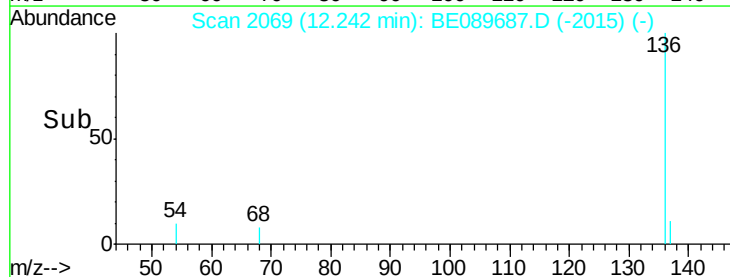
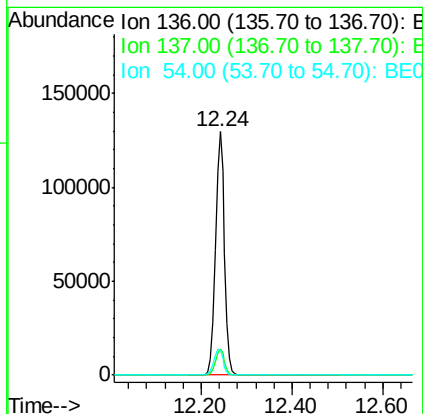
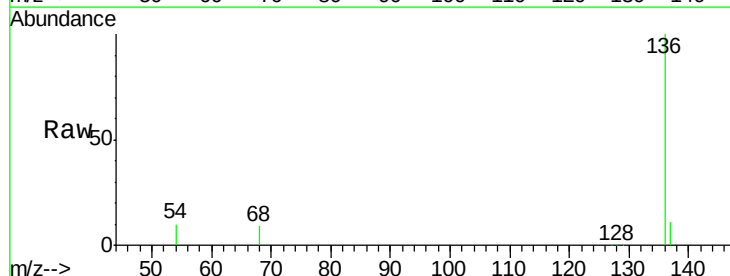
Tgt Ion: 42 Resp: 1892
 Ion Ratio Lower Upper
 42 100
 74 112.3 91.1 136.7
 44 3.0 4.7 7.1#

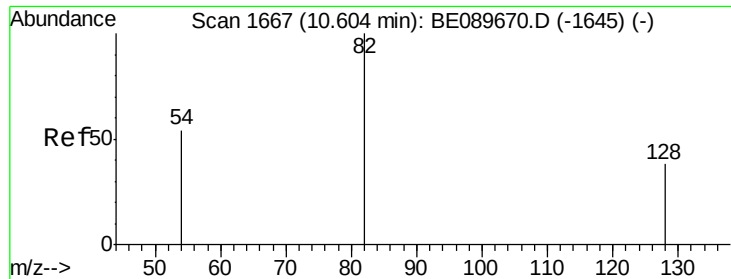


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: BE089687.D
 Acq: 25 Feb 2015 3:20

Tgt Ion: 136 Resp: 177807
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 10.3 7.8 11.8





#5

Nitrobenzene-d5

Concen: 7.40 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

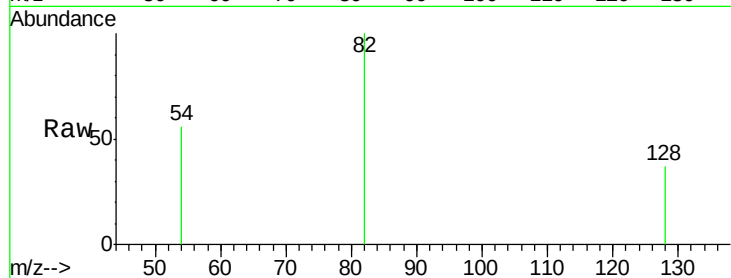
Tgt Ion: 82 Resp: 77788

Ion Ratio Lower Upper

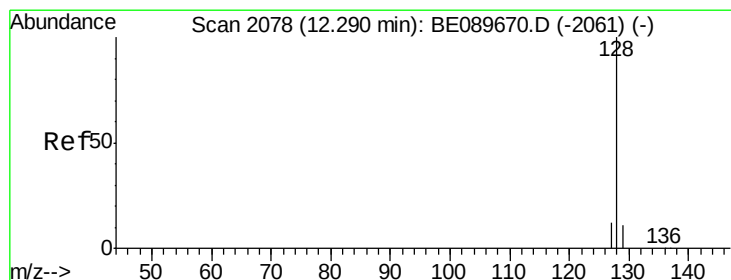
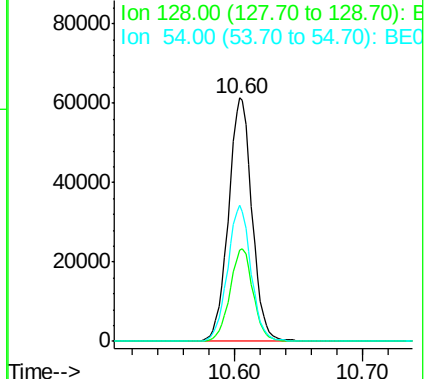
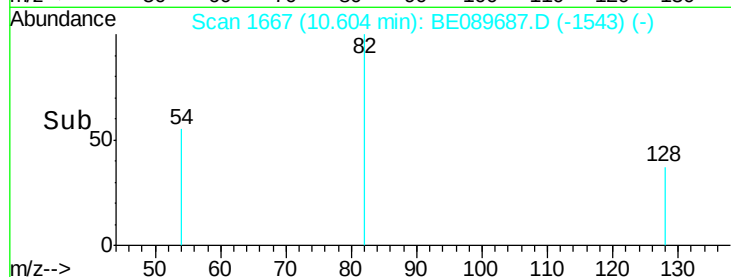
82 100

128 37.3 30.6 46.0

54 55.7 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE089687.D (-1543) (-)



#6

Naphthalene

Concen: 0.84 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

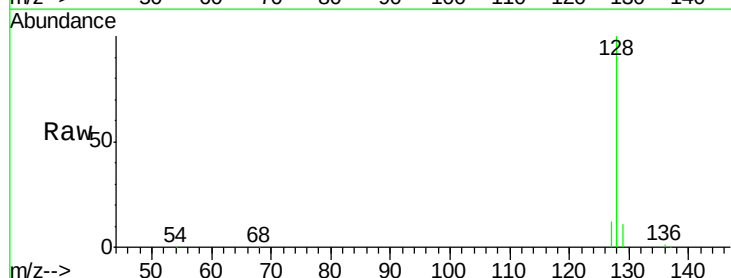
Tgt Ion: 128 Resp: 28736

Ion Ratio Lower Upper

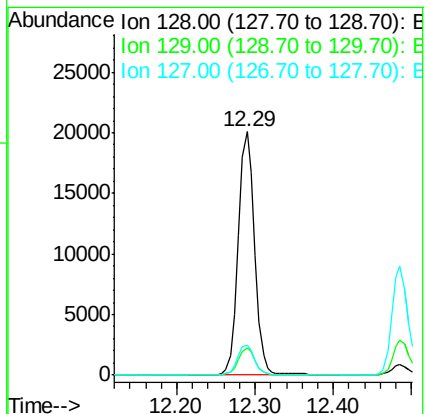
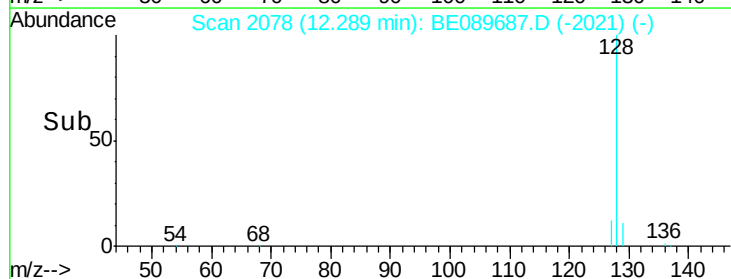
128 100

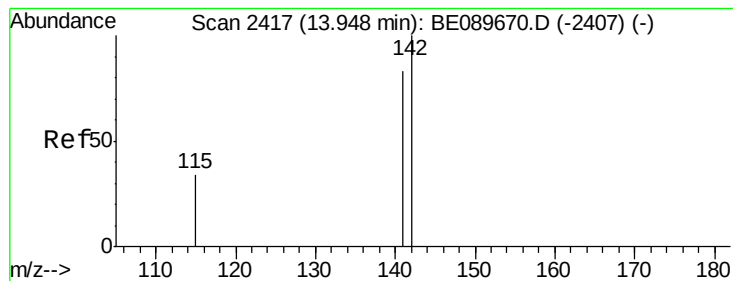
129 11.2 8.9 13.3

127 12.2 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): BE089687.D (-2021) (-)





#7

2-Methylnaphthalene

Concen: 1.32 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

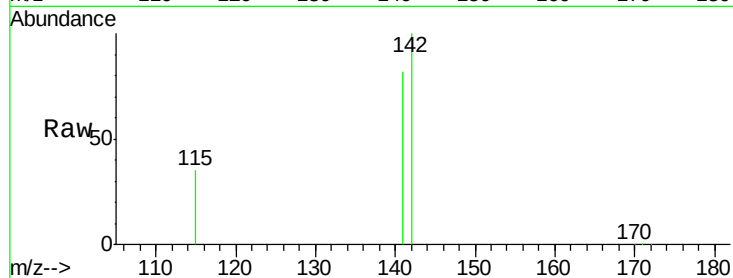
Tgt Ion:142 Resp: 25814

Ion Ratio Lower Upper

142 100

141 82.3 66.0 99.0

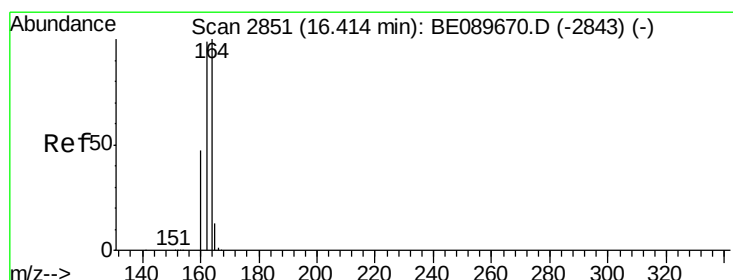
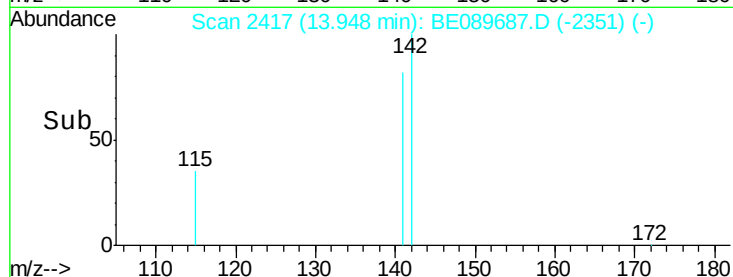
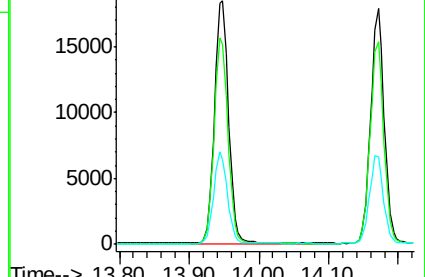
115 34.9 27.4 41.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.41 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

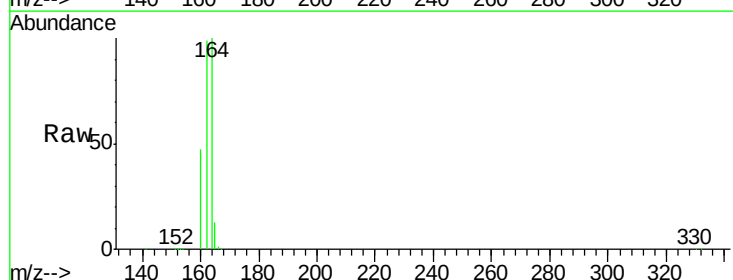
Tgt Ion:164 Resp: 84212

Ion Ratio Lower Upper

164 100

162 99.2 79.4 119.2

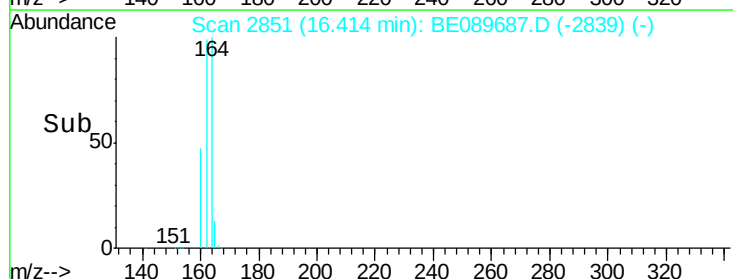
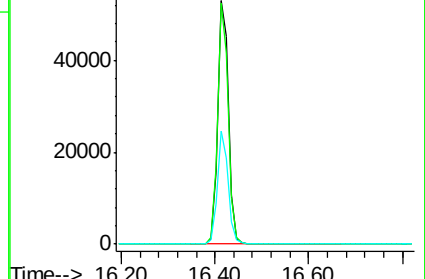
160 46.7 37.6 56.4

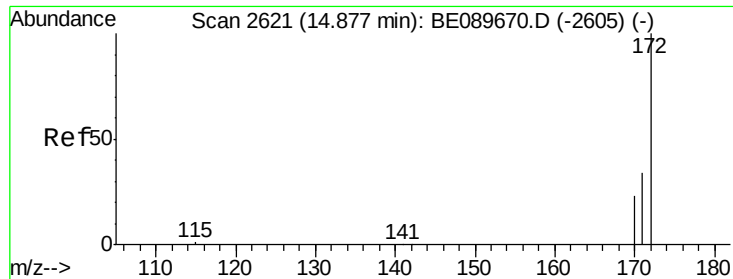


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

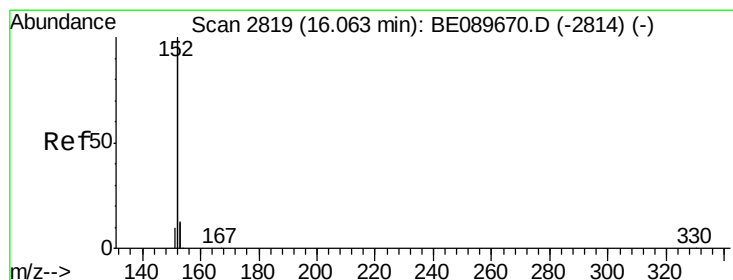
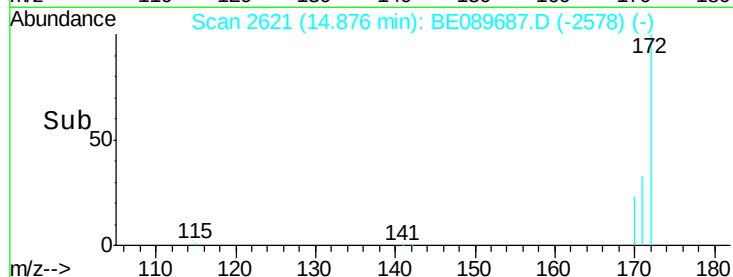
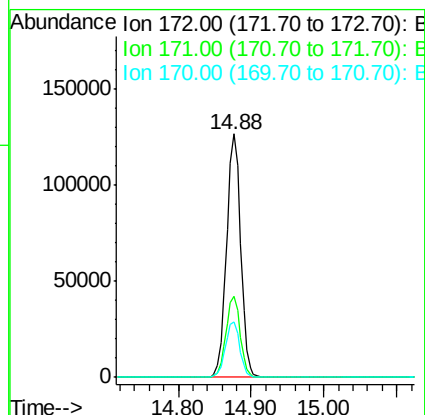
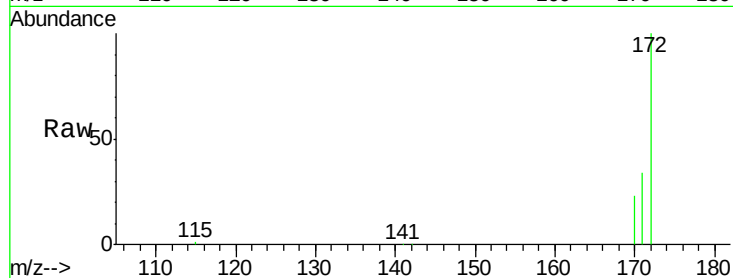




#9
2-Fluorobiphenyl
Concen: 9.07 ng
RT: 14.88 min Scan# 2621
Delta R.T. -0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

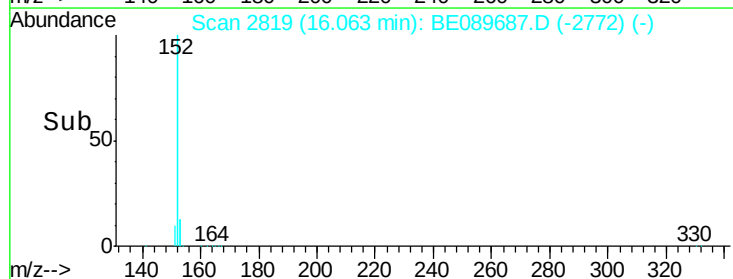
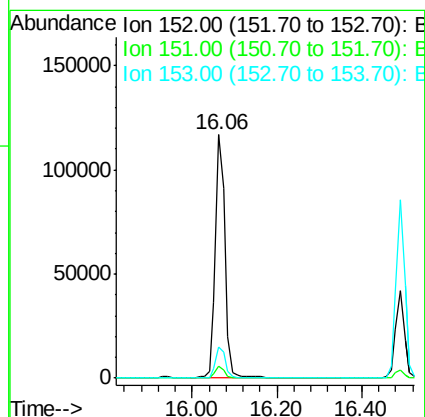
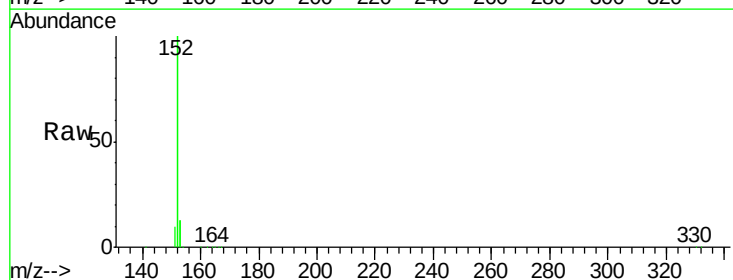
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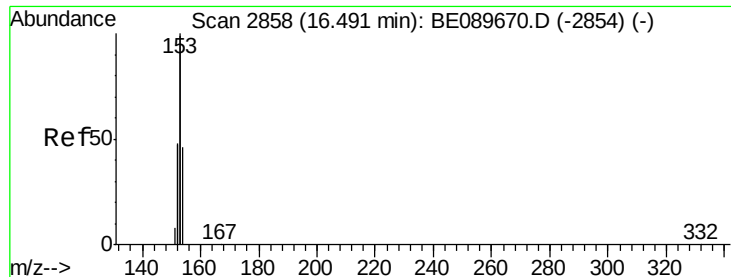
Tgt Ion:172 Resp: 169804
Ion Ratio Lower Upper
172 100
171 33.5 27.3 40.9
170 22.6 18.5 27.7



#10
Acenaphthylene
Concen: 1.50 ng
RT: 16.06 min Scan# 2819
Delta R.T. -0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

Tgt Ion:152 Resp: 181239
Ion Ratio Lower Upper
152 100
151 4.8 3.8 5.6
153 12.8 10.4 15.6





#11

Acenaphthene

Concen: 1.49 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

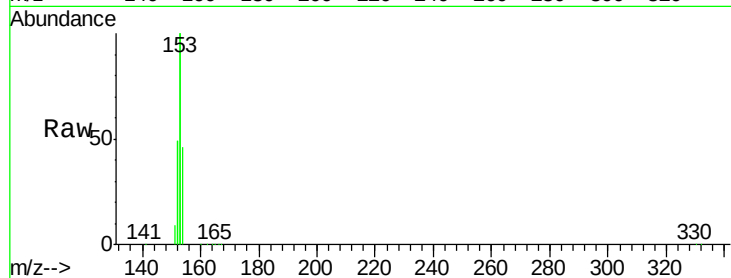
Tgt Ion:154 Resp: 28536

Ion Ratio Lower Upper

154 100

153 425.8 345.8 518.8

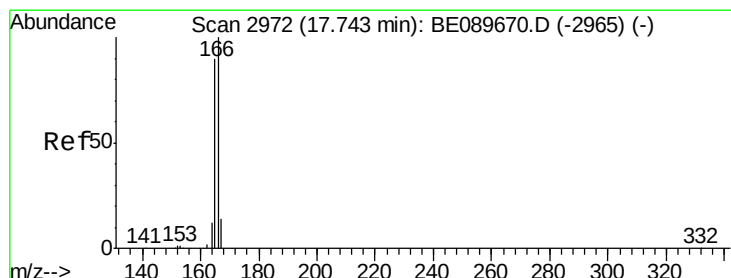
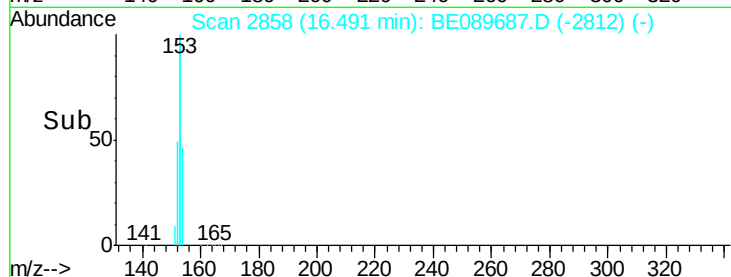
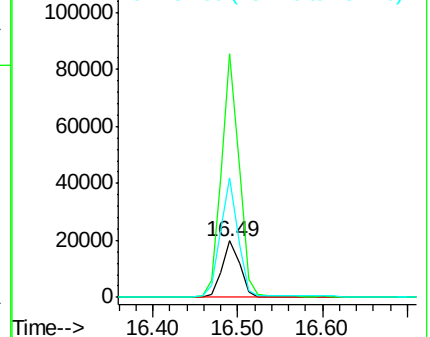
152 209.1 168.6 252.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#12

Fluorene

Concen: 1.50 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

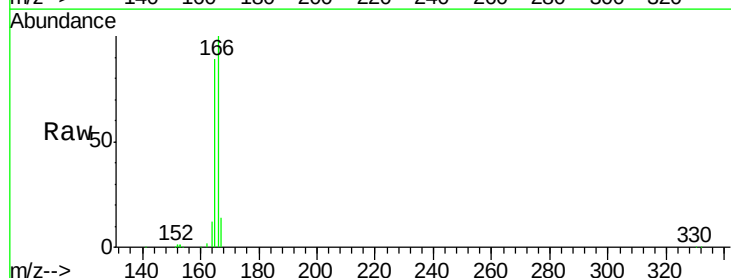
Tgt Ion:166 Resp: 31847

Ion Ratio Lower Upper

166 100

165 90.9 73.6 110.4

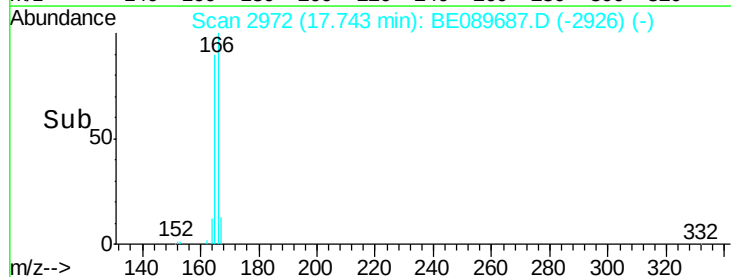
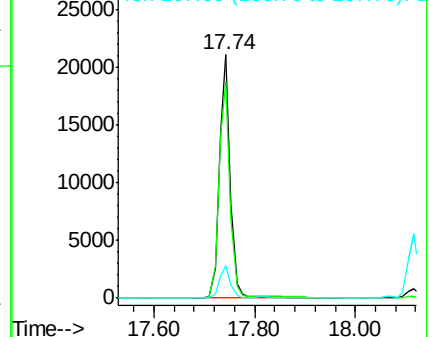
167 13.2 10.6 16.0

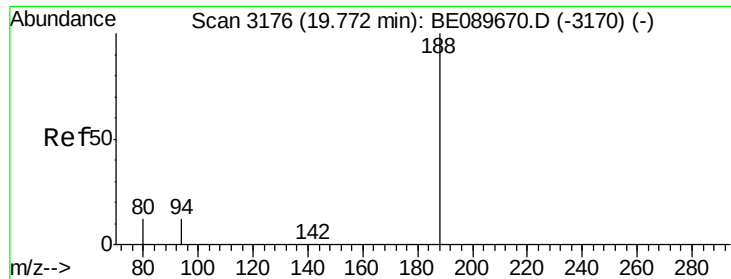


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

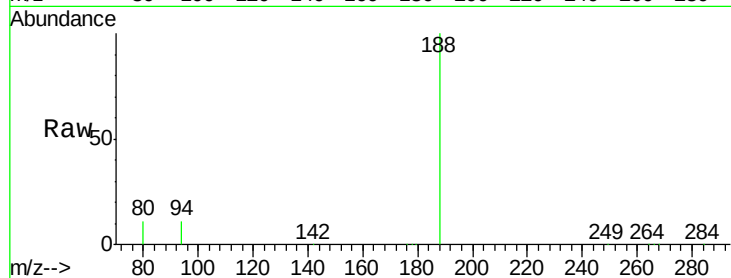




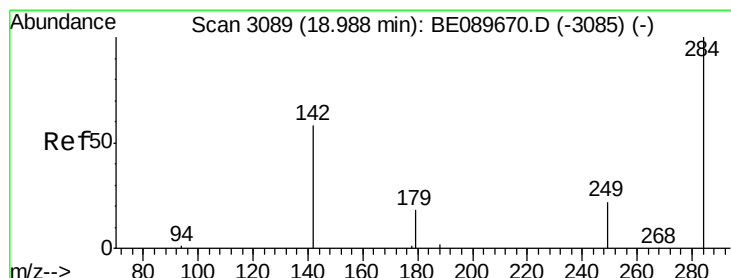
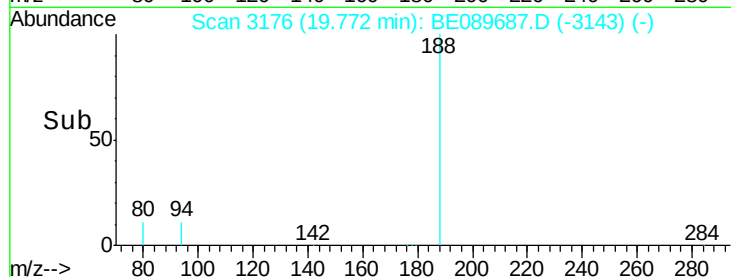
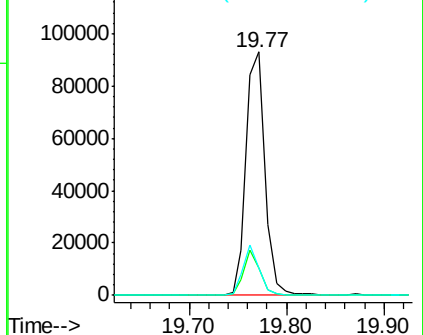
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

Instrument :
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ClientSampleId :
PB81861BL

Tgt Ion:188 Resp: 124782
Ion Ratio Lower Upper
188 100
94 11.3 9.4 14.2
80 11.3 9.5 14.3

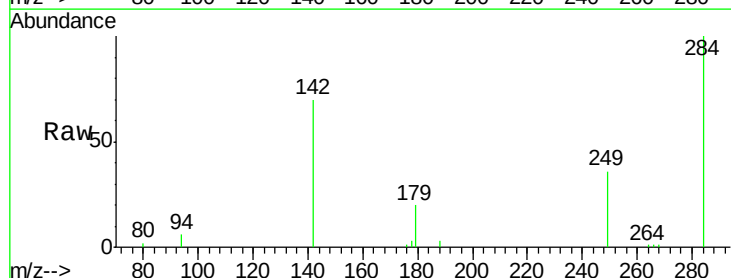


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

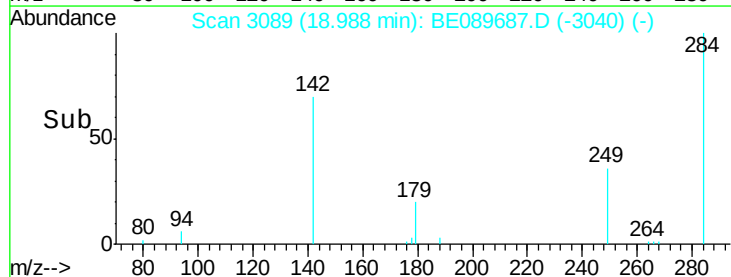
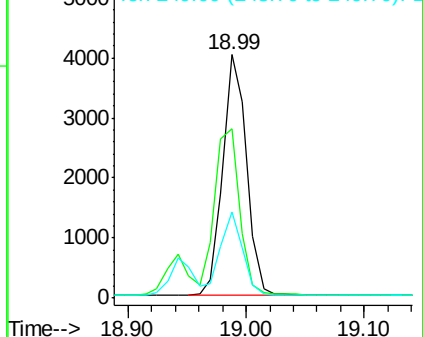


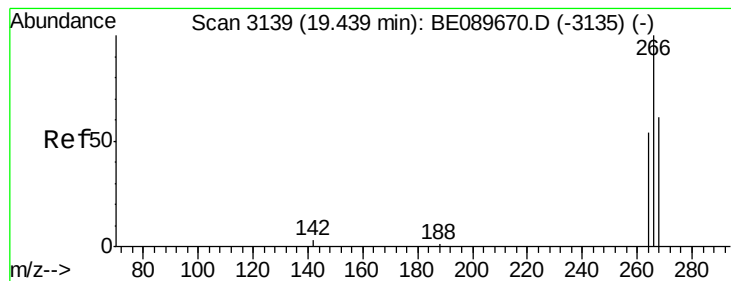
#14
Hexachlorobenzene
Concen: 1.73 ng
RT: 18.99 min Scan# 3089
Delta R.T. -0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

Tgt Ion:284 Resp: 5599
Ion Ratio Lower Upper
284 100
142 72.0 55.4 83.2
249 33.1 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 2.49 ng

RT: 19.43 min Scan# 3138

Delta R.T. -0.01 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

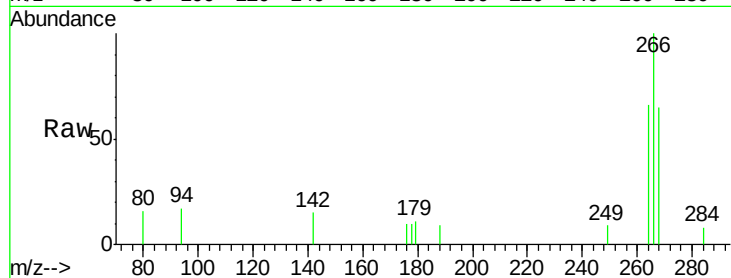
Tgt Ion: 266 Resp: 1164

Ion Ratio Lower Upper

266 100

268 65.1 56.3 84.5

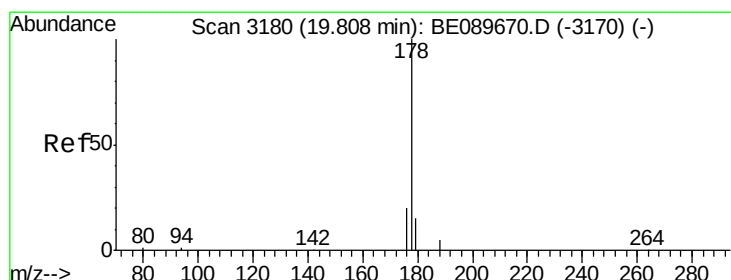
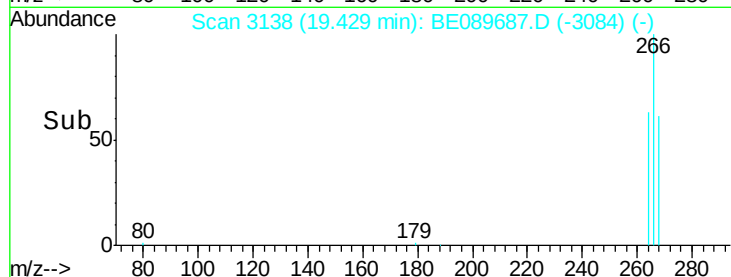
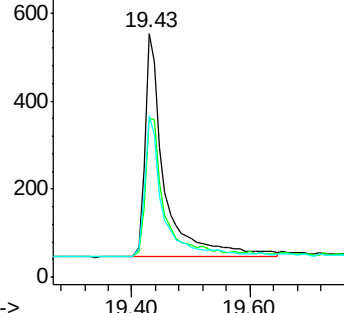
264 66.4 51.8 77.8



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#16

Phenanthrene

Concen: 1.58 ng

RT: 19.81 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

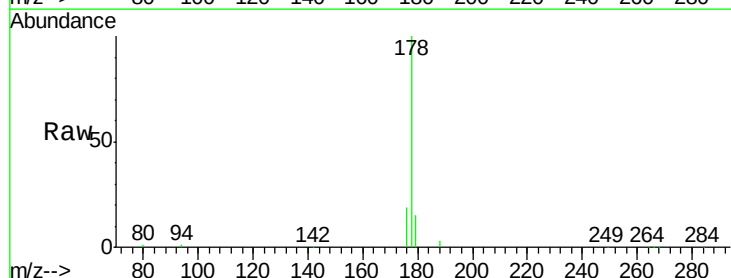
Tgt Ion: 178 Resp: 42121

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

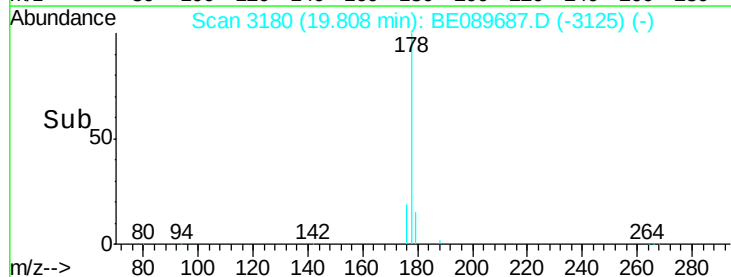
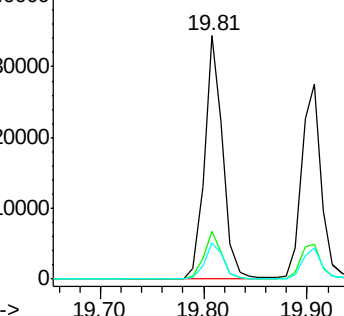
179 15.5 12.5 18.7

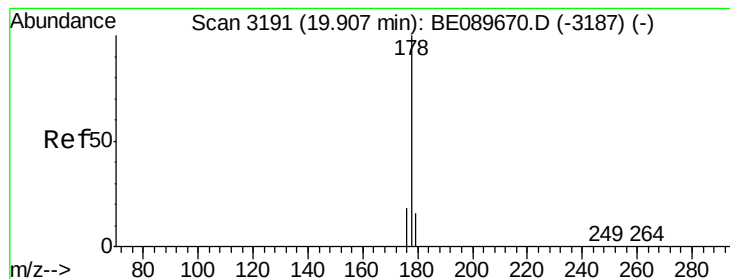


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 1.65 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

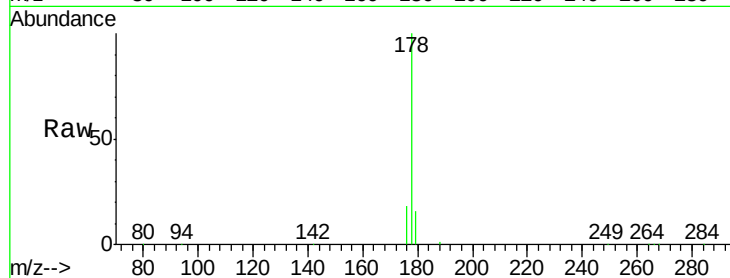
Tgt Ion:178 Resp: 37306

Ion Ratio Lower Upper

178 100

176 18.3 14.8 22.2

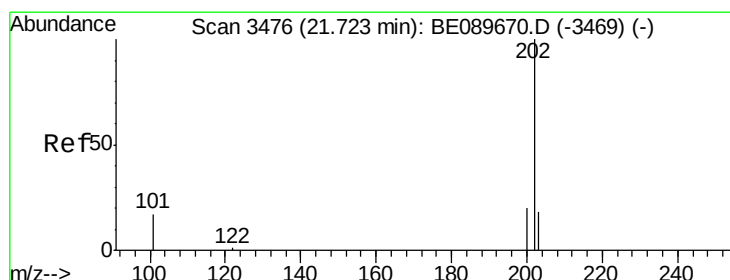
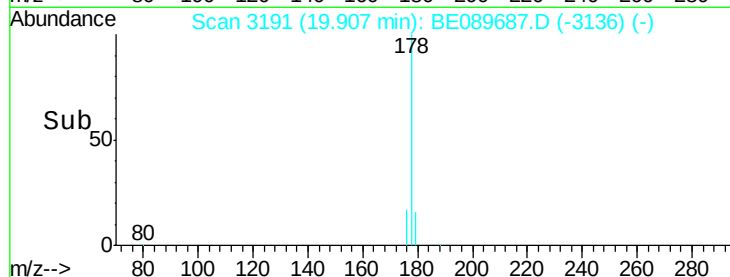
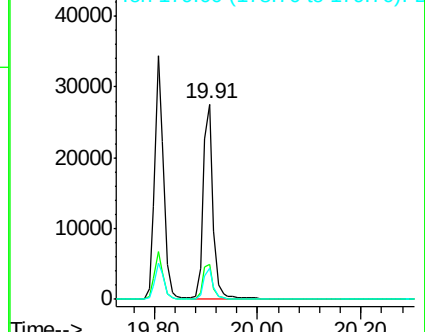
179 14.8 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#18

Fluoranthene

Concen: 1.35 ng

RT: 21.72 min Scan# 3476

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

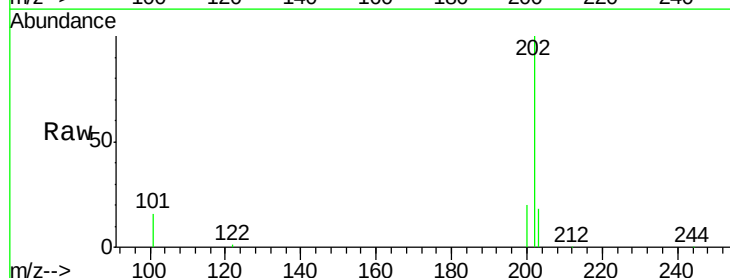
Tgt Ion:202 Resp: 29968

Ion Ratio Lower Upper

202 100

101 18.7 14.9 22.3

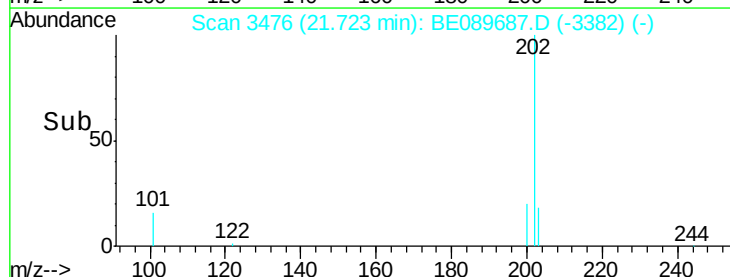
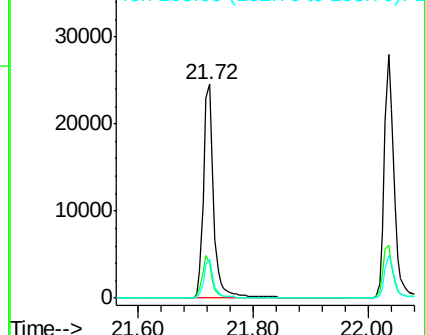
203 17.2 13.8 20.6

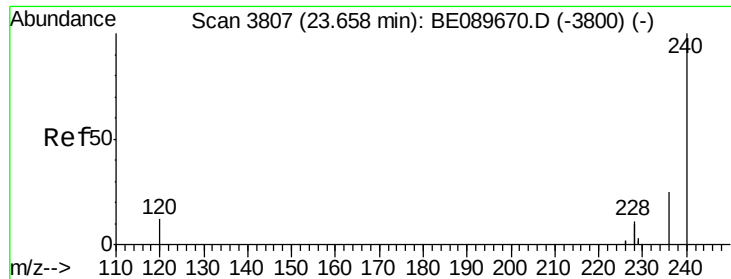


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

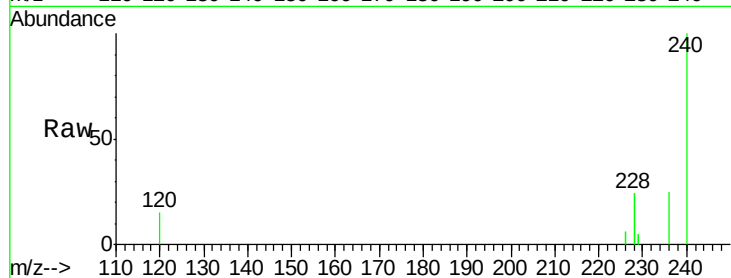
Tgt Ion:240 Resp: 77638

Ion Ratio Lower Upper

240 100

120 14.5 9.4 14.0#

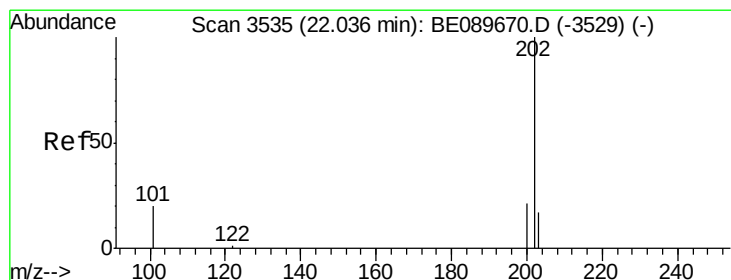
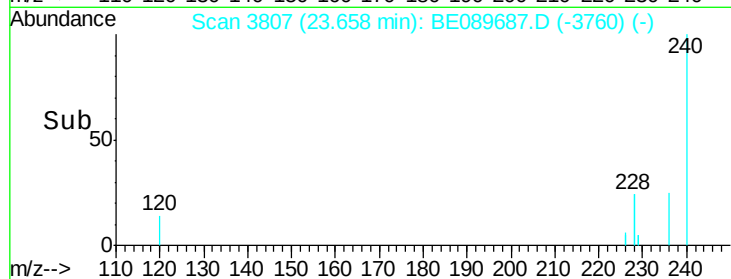
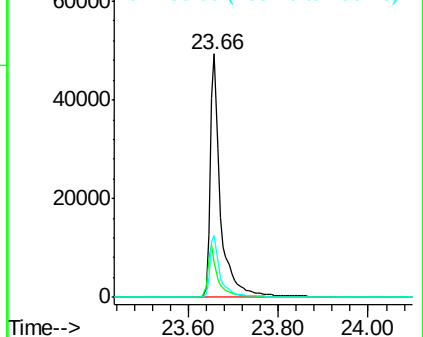
236 25.4 19.9 29.9



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



#20

Pyrene

Concen: 1.74 ng

RT: 22.04 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

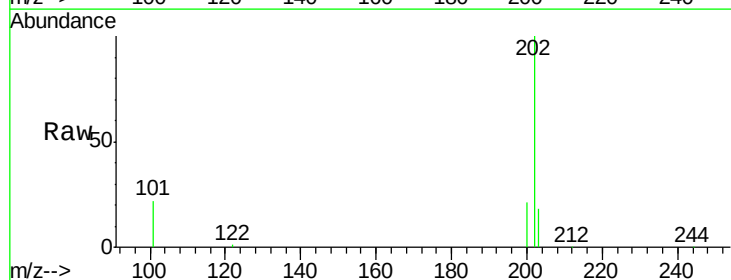
Tgt Ion:202 Resp: 32596

Ion Ratio Lower Upper

202 100

200 20.6 16.4 24.6

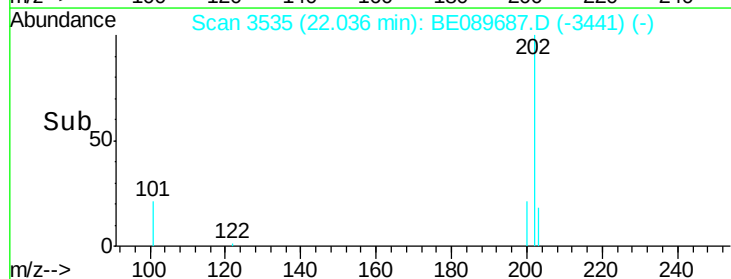
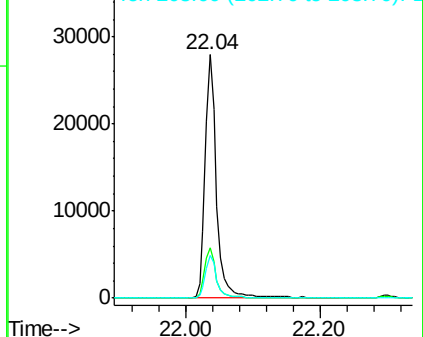
203 17.6 13.9 20.9

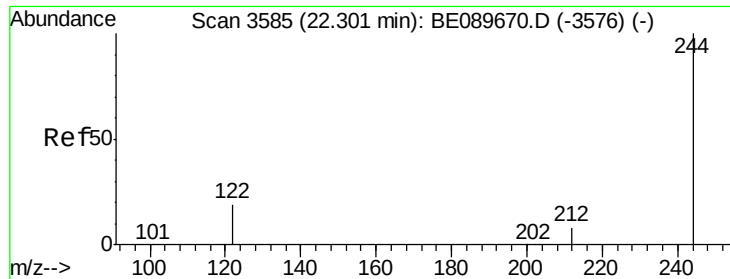


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 10.81 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

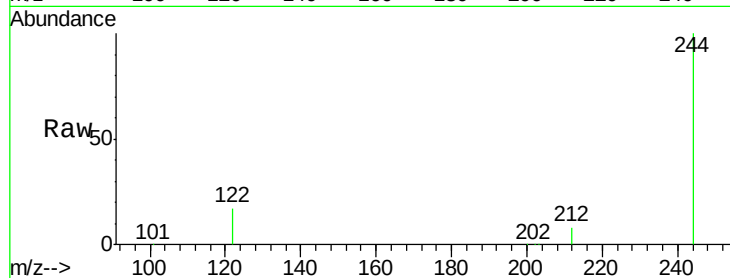
Tgt Ion:244 Resp: 98423

Ion Ratio Lower Upper

244 100

212 8.1 7.0 10.6

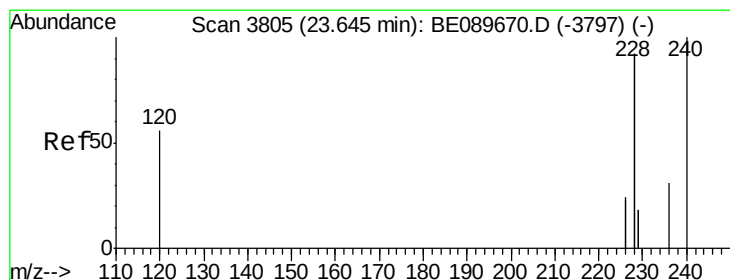
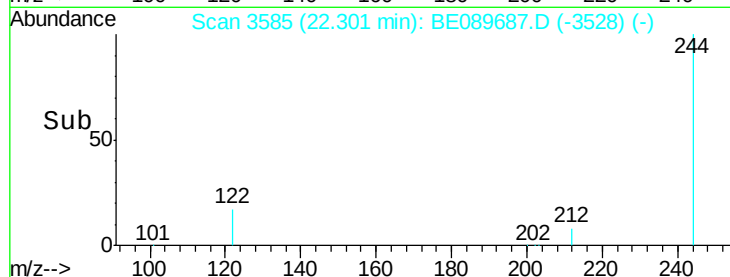
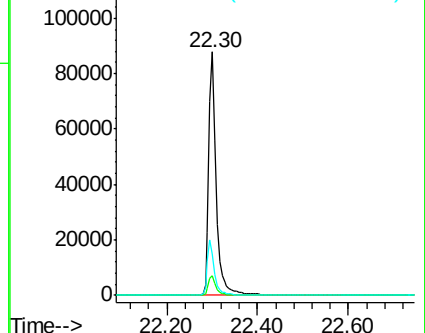
122 17.1 15.4 23.0



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



#22

Benzo(a)anthracene

Concen: 1.36 ng

RT: 23.65 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

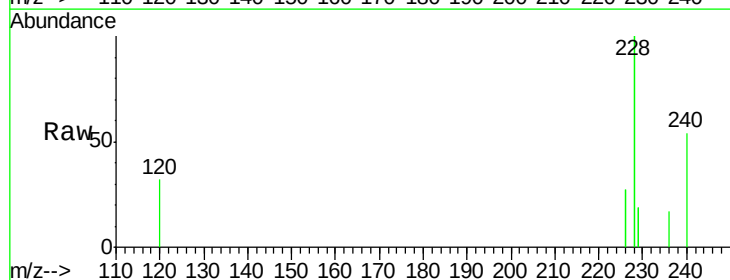
Tgt Ion:228 Resp: 69277

Ion Ratio Lower Upper

228 100

226 26.7 20.6 31.0

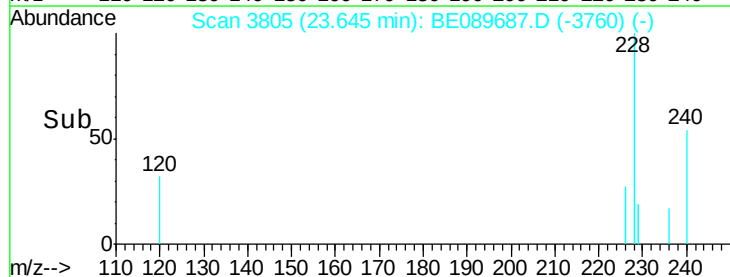
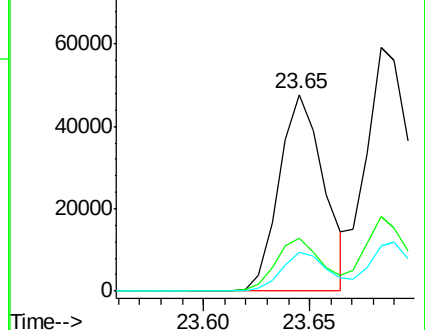
229 19.4 15.8 23.6

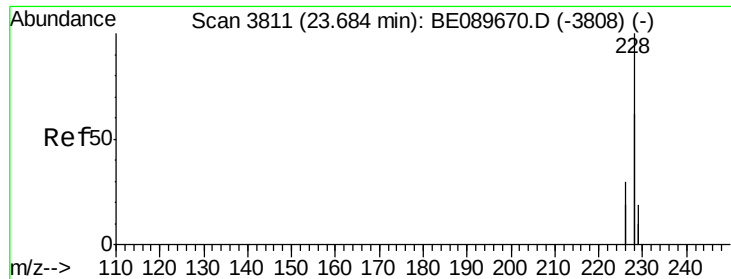


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 1.76 ng

RT: 23.68 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

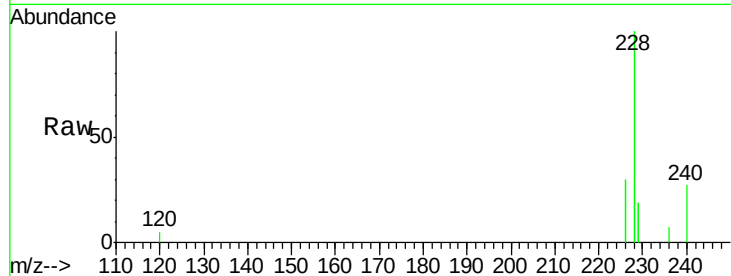
Tgt Ion:228 Resp: 123888

Ion Ratio Lower Upper

228 100

226 30.4 23.6 35.4

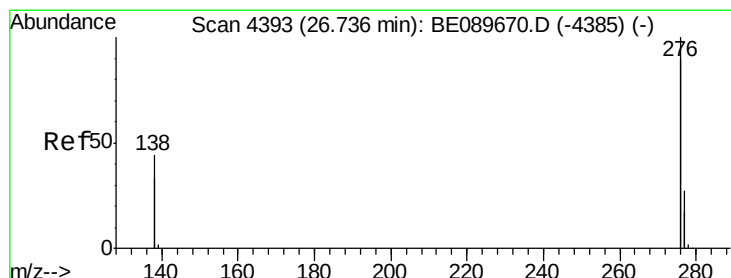
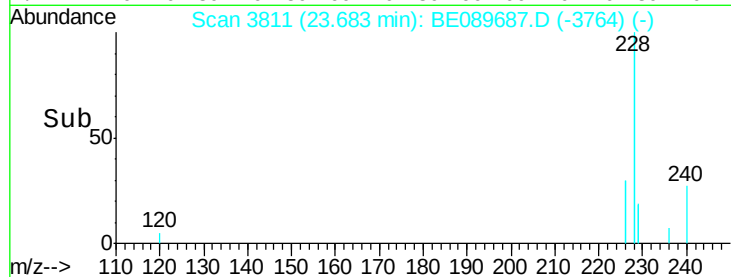
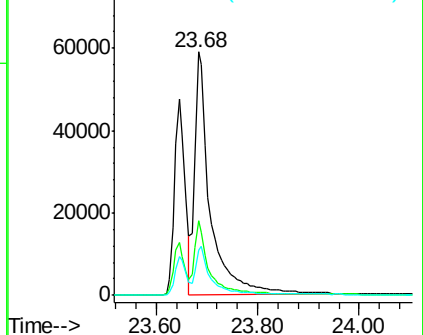
229 18.6 15.3 22.9



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 1.35 ng

RT: 26.74 min Scan# 4393

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

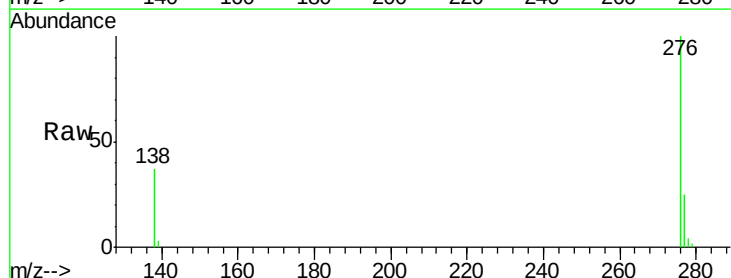
Tgt Ion:276 Resp: 37397

Ion Ratio Lower Upper

276 100

138 0.0 0.0 0.0

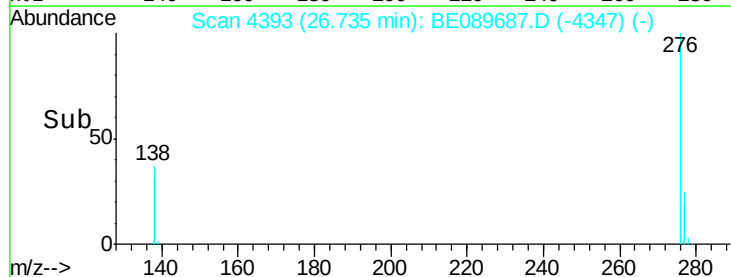
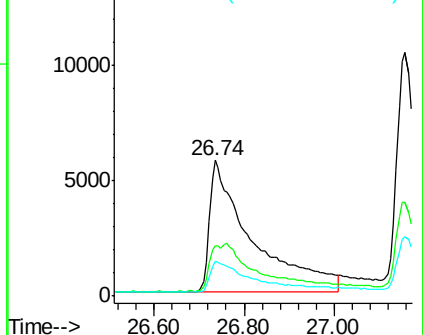
277 24.9 5.2 7.8#

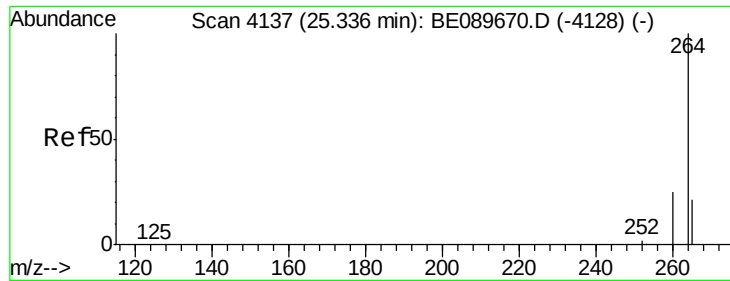


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



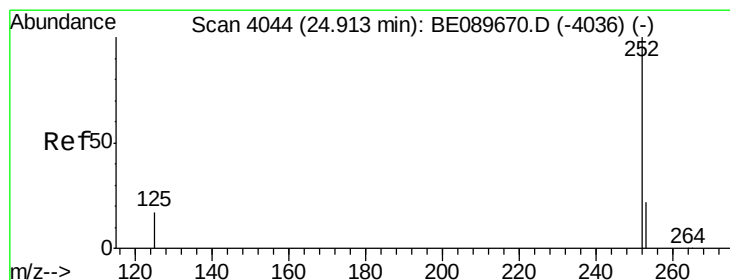
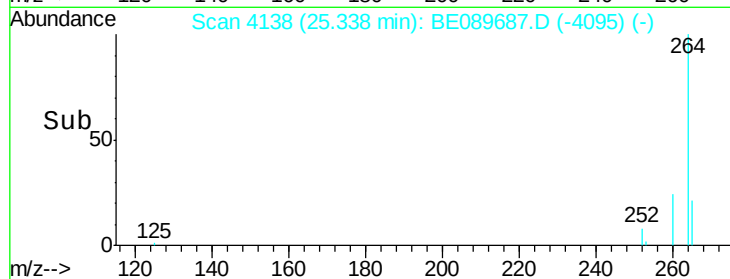
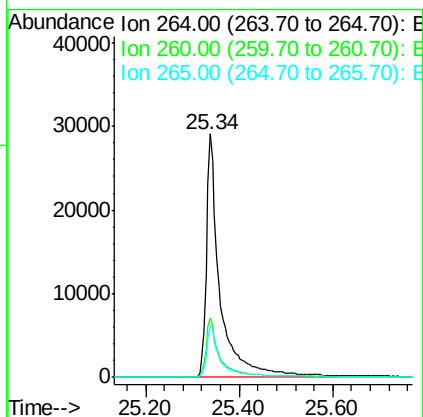
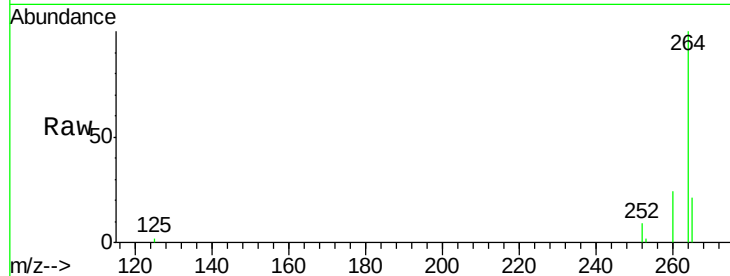


#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. 0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

Instrument :
BNA_E
ClientSampleId :
PB81861BL

Tgt Ion: 264 Resp: 58974

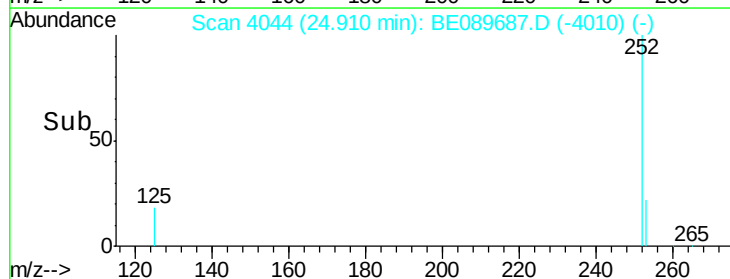
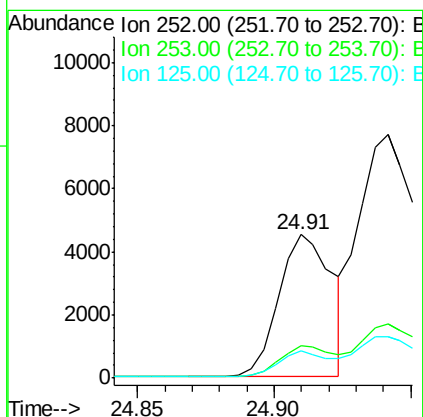
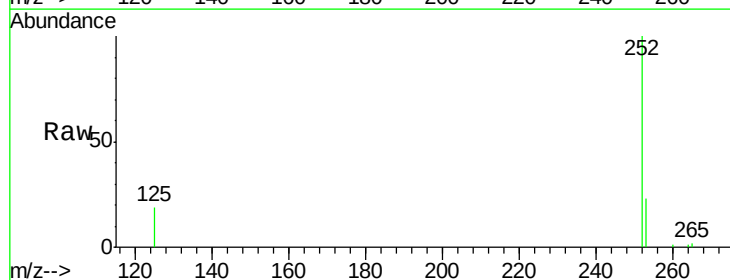
Ion	Ratio	Lower	Upper
264	100		
260	24.4	20.2	30.4
265	21.4	17.0	25.4

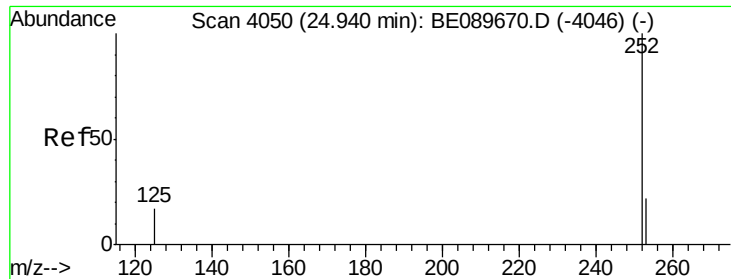


#26
Benzo(b)fluoranthene
Concen: 1.17 ng
RT: 24.91 min Scan# 4044
Delta R.T. -0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

Tgt Ion: 252 Resp: 6097

Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.6	27.8
125	18.9	15.0	22.6

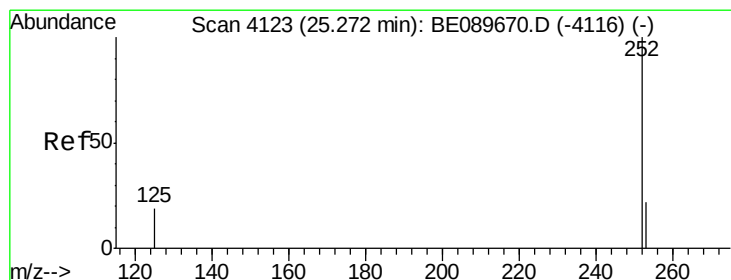
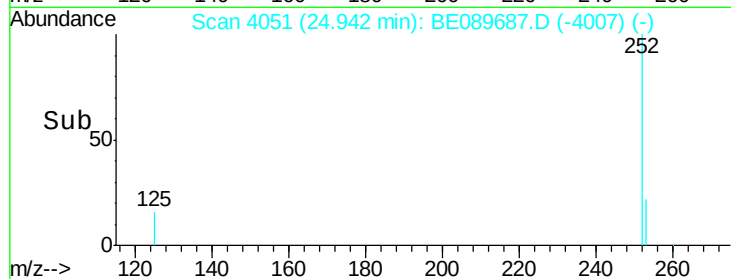
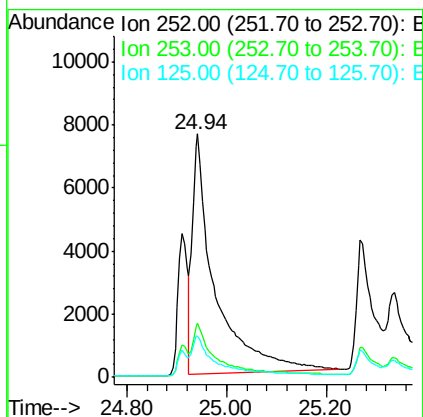
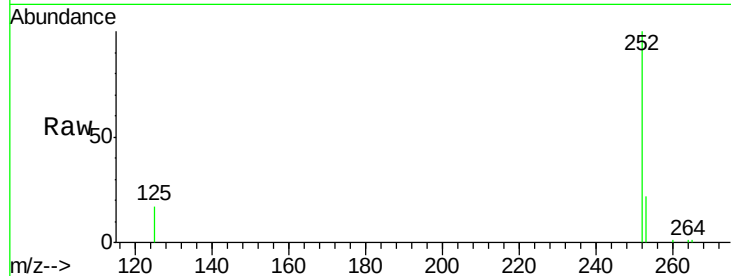




#27
Benzo(k)fluoranthene
Concen: 1.53 ng
RT: 24.94 min Scan# 4051
Delta R.T. 0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

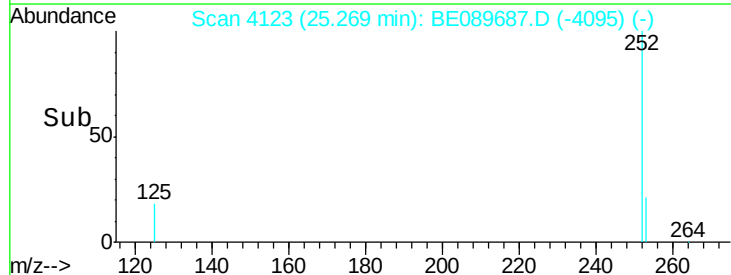
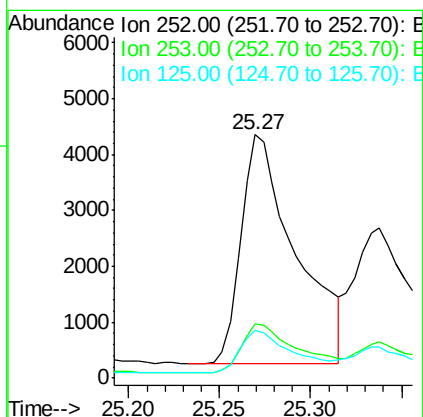
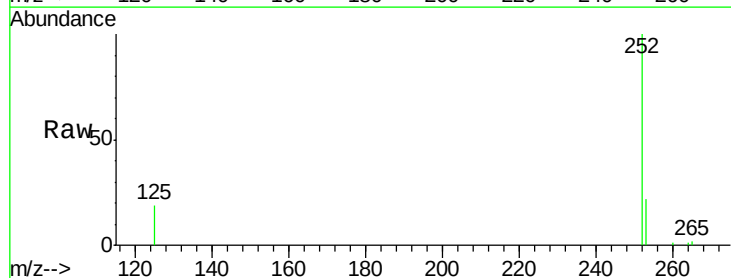
Instrument :
BNA_E
ClientSampleId :
PB81861BL

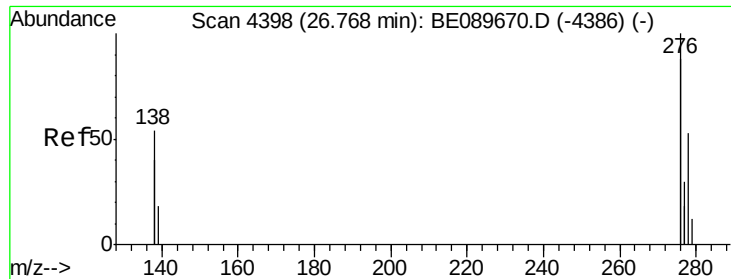
Tgt Ion: 252 Resp: 23941
Ion Ratio Lower Upper
252 100
253 22.2 18.0 27.0
125 17.1 14.3 21.5



#28
Benzo(a)pyrene
Concen: 1.62 ng
RT: 25.27 min Scan# 4123
Delta R.T. -0.00 min
Lab File: BE089687.D
Acq: 25 Feb 2015 3:20

Tgt Ion: 252 Resp: 8620
Ion Ratio Lower Upper
252 100
253 22.1 18.8 28.2
125 19.5 16.6 24.8





#29

Dibenzo(a,h)anthracene

Concen: 1.33 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

Instrument :

BNA_E

ClientSampleId :

PB81861BL

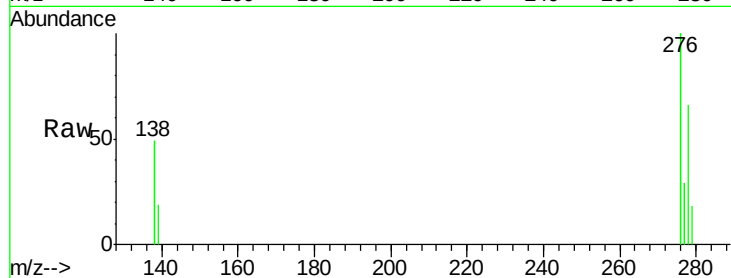
Tgt Ion: 278 Resp: 6820

Ion Ratio Lower Upper

278 100

139 28.9 30.4 45.6#

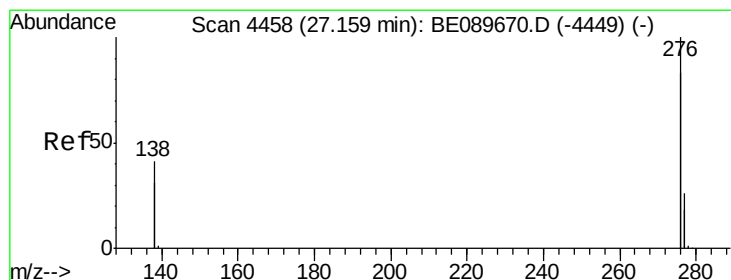
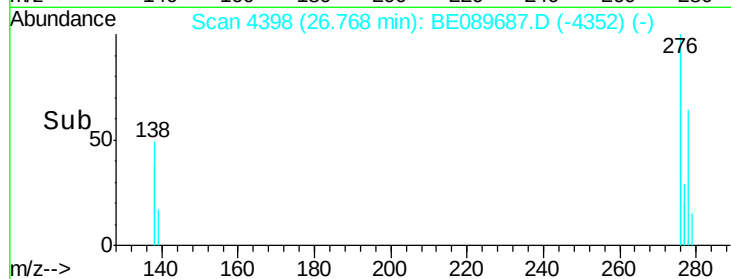
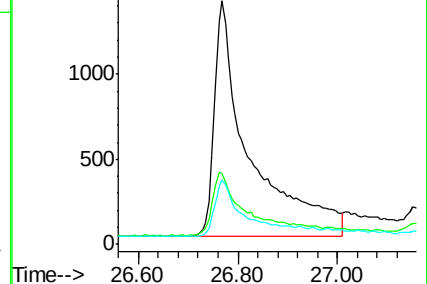
279 26.6 22.0 33.0



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



#30

Benzo(g,h,i)perylene

Concen: 1.45 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089687.D

Acq: 25 Feb 2015 3:20

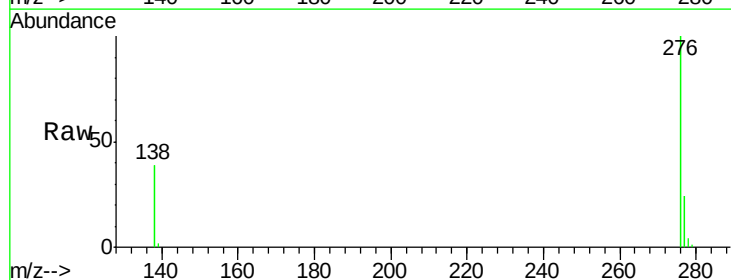
Tgt Ion: 276 Resp: 48835

Ion Ratio Lower Upper

276 100

277 24.3 21.0 31.6

138 38.8 33.0 49.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

