

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021715\
 Data File : BE089587.D
 Acq On : 17 Feb 2015 3:38
 Operator : TP/IZ
 Sample : SSTDICCC001
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 17 10:54:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 17 10:44:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	42246	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	180453	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	89928	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	152882	5.00	ng	0.00
19) Chrysene-d12	23.66	240	129685	5.00	ng	0.00
25) Perylene-d12	25.34	264	110711	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	8574	1.05	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	30285	1.06	ng	0.00
21) Terphenyl-d14	22.31	244	24211	1.00	ng	0.00

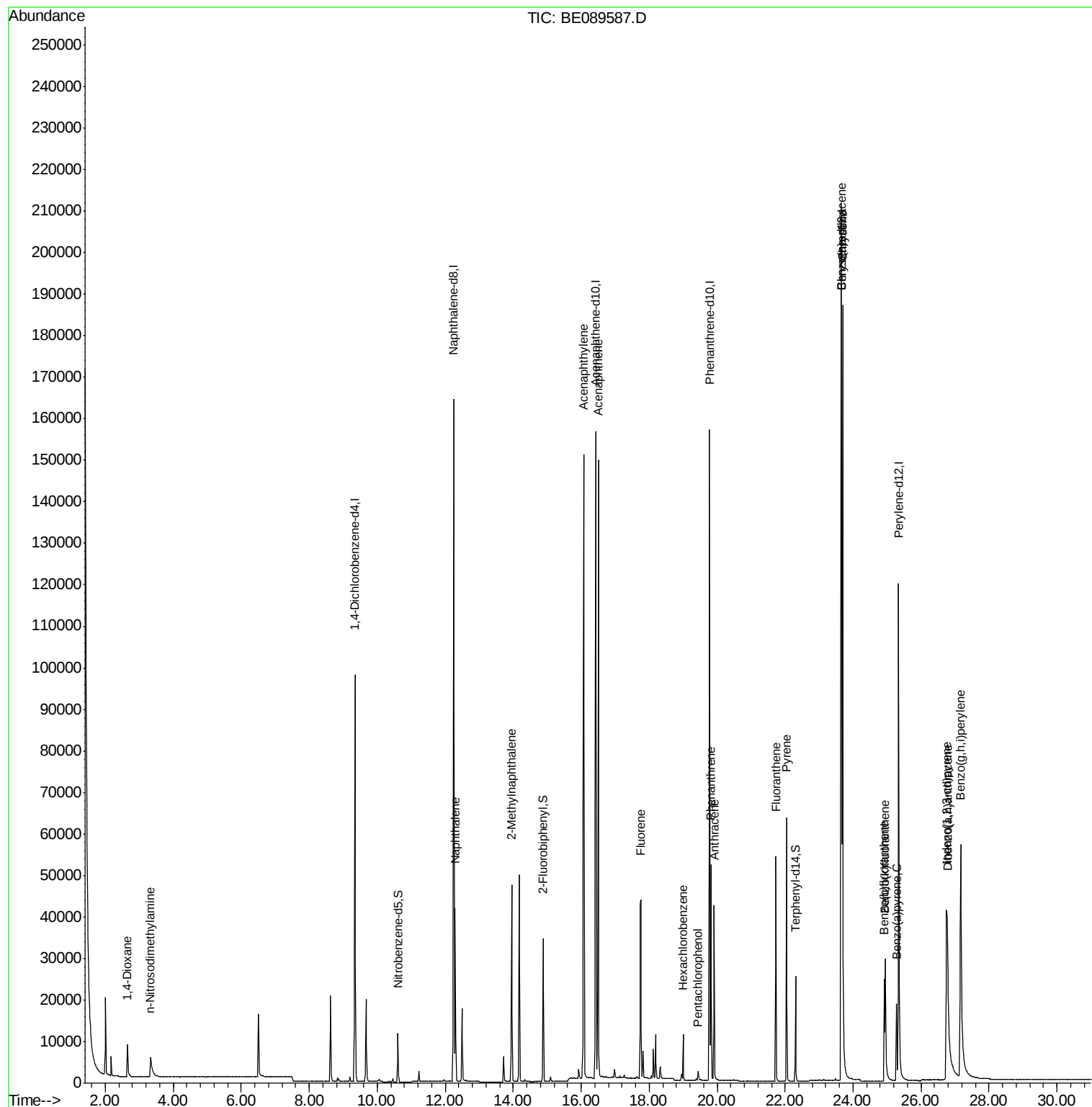
Target Compounds					Ovalue	
2) 1,4-Dioxane	2.65	88	6127	1.07	ng	100
3) n-Nitrosodimethylamine	3.32	42	6185	1.08	ng	100
6) Naphthalene	12.29	128	47063	1.04	ng	100
7) 2-Methylnaphthalene	13.95	142	30549	1.05	ng	100
10) Acenaphthylene	16.07	152	184423	1.07	ng	100
11) Acenaphthene	16.50	154	29280	1.04	ng	100
12) Fluorene	17.75	166	32984	1.05	ng	100
14) Hexachlorobenzene	19.00	284	8563	1.00	ng	100
15) Pentachlorophenol	19.44	266	2062	0.81	ng	100
16) Phenanthrene	19.82	178	47460	1.03	ng	100
17) Anthracene	19.91	178	39744	1.05	ng	100
18) Fluoranthene	21.72	202	39994	1.04	ng	100
20) Pyrene	22.04	202	43889	1.06	ng	100
22) Benzo(a)anthracene	23.65	228	135811	1.01	ng	100
23) Chrysene	23.69	228	161659	1.02	ng	100
24) Indeno(1,2,3-cd)pyrene	26.75	276	122806	1.06	ng	100
26) Benzo(b)fluoranthene	24.91	252	21918	0.98	ng	100
27) Benzo(k)fluoranthene	24.95	252	41395	1.13	ng	100
28) Benzo(a)pyrene	25.28	252	22217	1.02	ng	100
29) Dibenzo(a,h)anthracene	26.78	278	24012	1.08	ng	100
30) Benzo(g,h,i)perylene	27.17	276	116164	1.07	ng	100

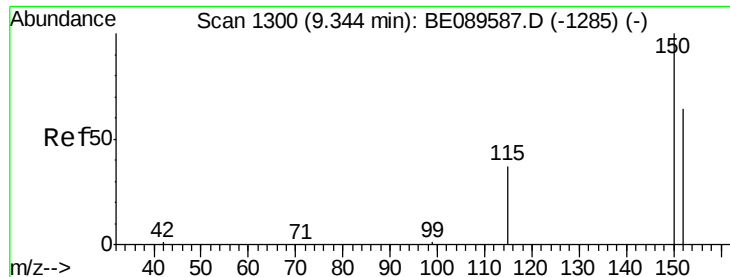
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

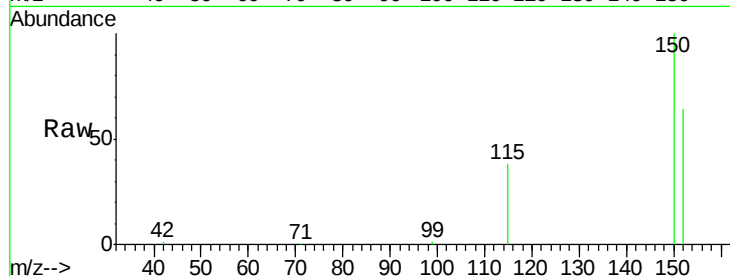
Tot Ion:152 Resp: 42246

Ion Ratio Lower Upper

152 100

150 156.6 125.3 187.9

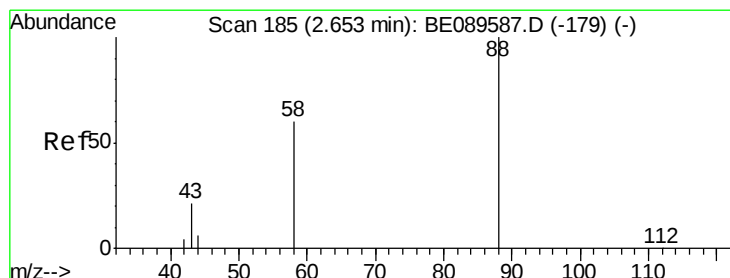
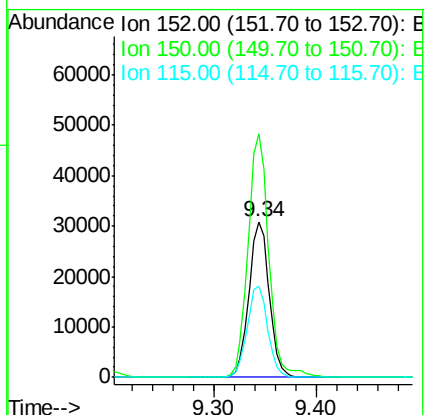
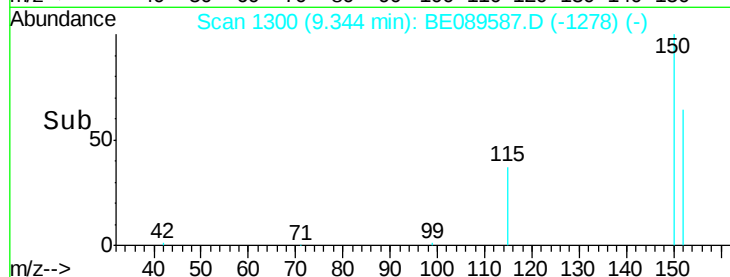
115 58.7 47.0 70.4



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

1,4-Dioxane

Concen: 1.07 ng

RT: 2.65 min Scan# 185

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

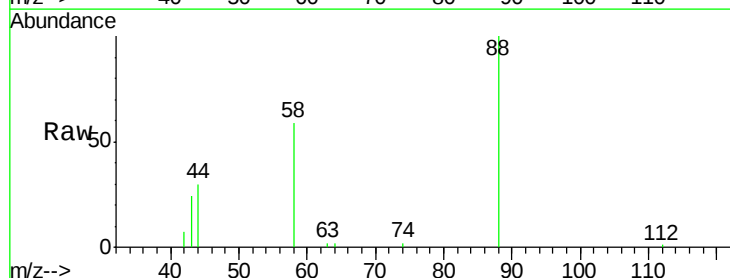
Tgt Ion: 88 Resp: 6127

Ion Ratio Lower Upper

88 100

58 66.2 53.0 79.4

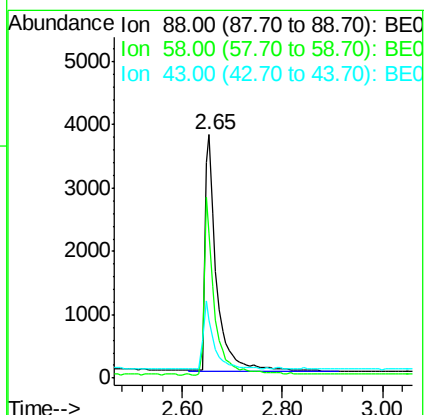
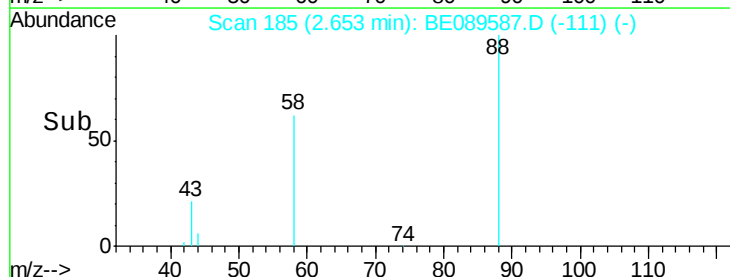
43 24.9 19.9 29.9

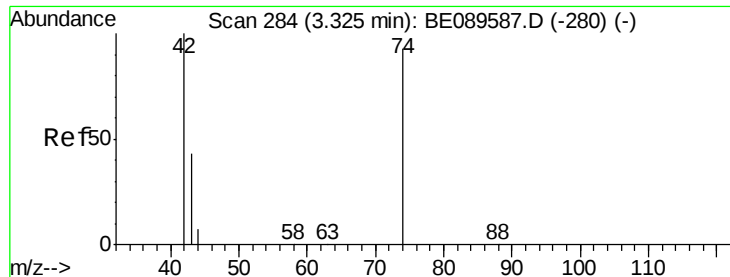


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



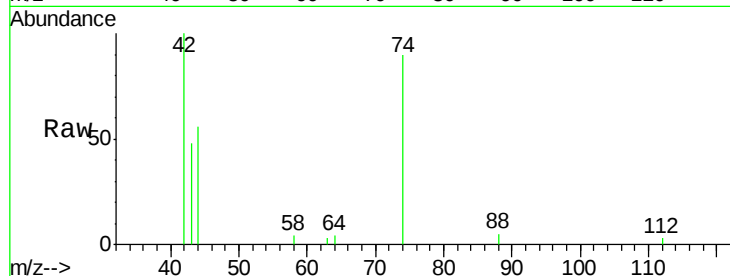


#3

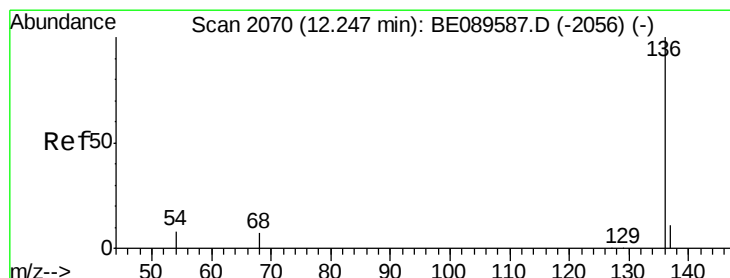
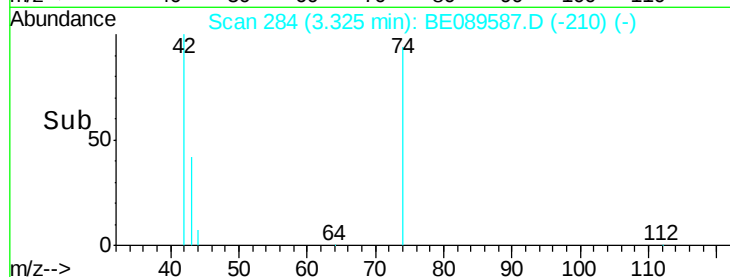
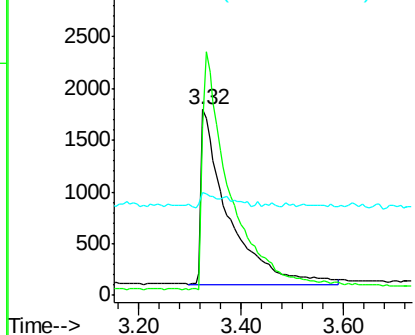
n-Nitrosodimethylamine
 Concen: 1.08 ng
 RT: 3.32 min Scan# 284
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 6185
 Ion Ratio Lower Upper
 42 100
 74 142.8 114.2 171.4
 44 4.5 3.6 5.4



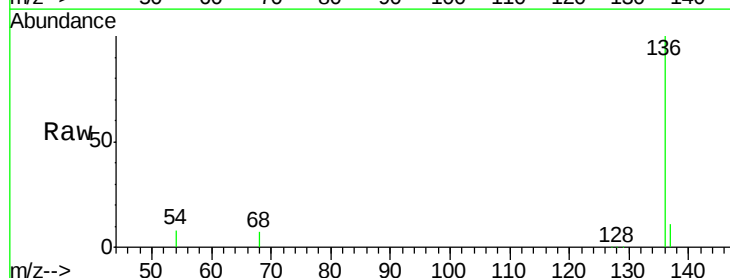
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



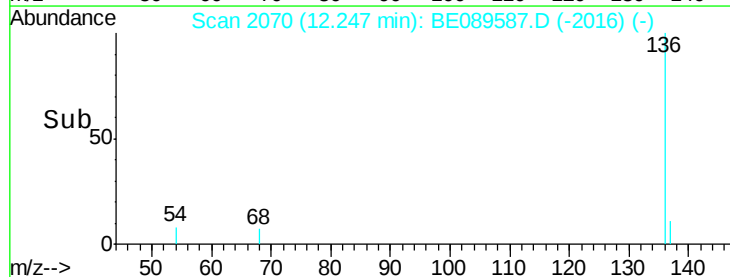
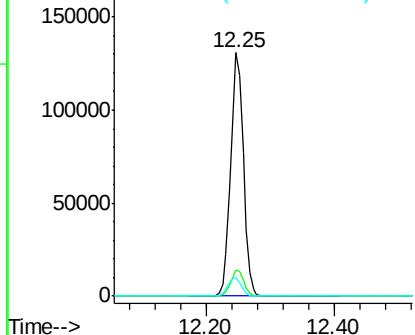
#4

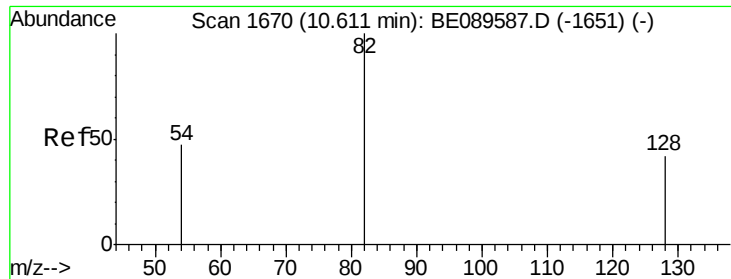
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

Tgt Ion: 136 Resp: 180453
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 7.7 6.2 9.2



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





#5

Nitrobenzene-d5

Concen: 1.05 ng

RT: 10.61 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

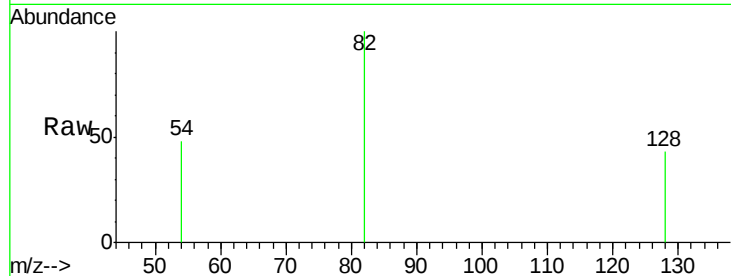
Tot Ion: 82 Resp: 8574

Ion Ratio Lower Upper

82 100

128 42.7 34.2 51.2

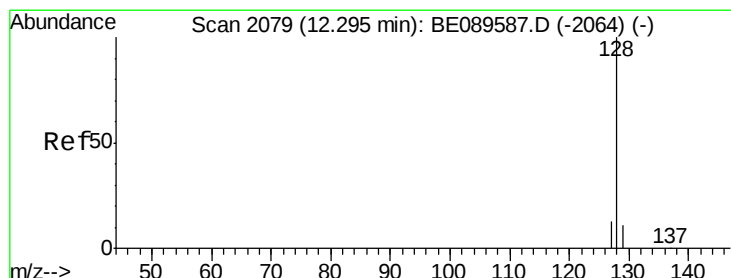
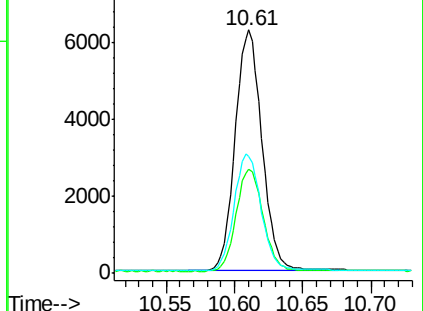
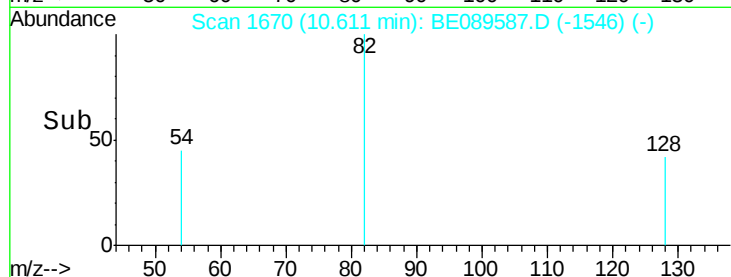
54 48.0 38.4 57.6



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 1.04 ng

RT: 12.29 min Scan# 2079

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

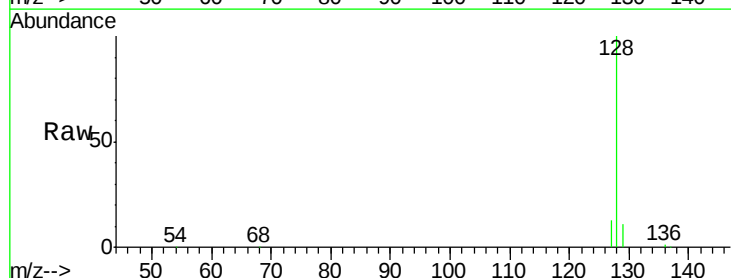
Tgt Ion: 128 Resp: 47063

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

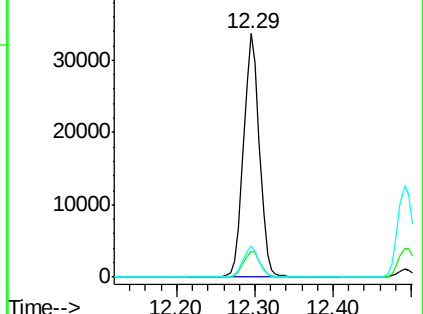
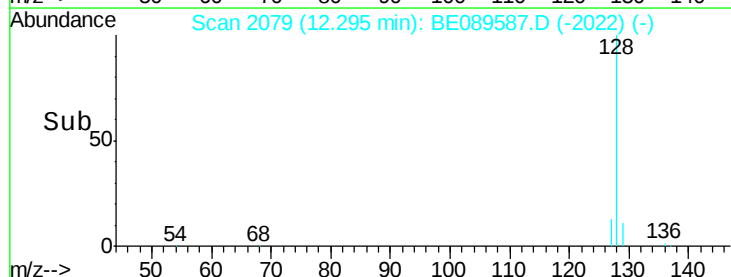
127 12.8 10.2 15.4

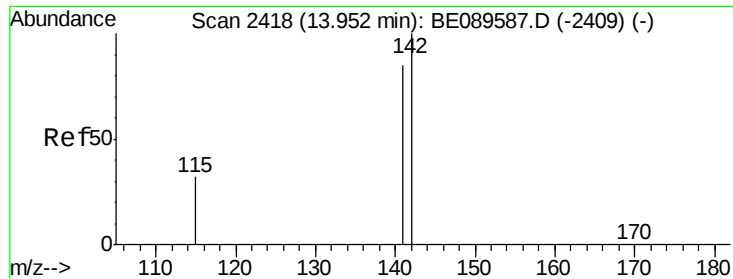


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 1.05 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

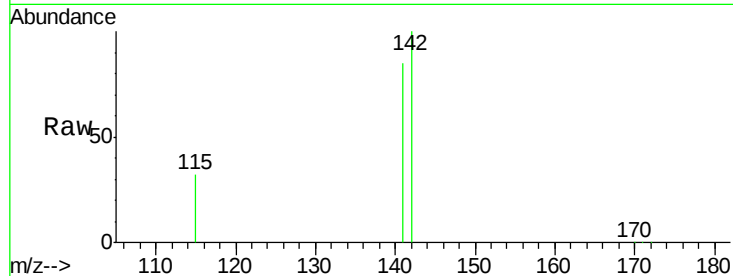
Tot Ion:142 Resp: 30549

Ion Ratio Lower Upper

142 100

141 85.1 68.1 102.1

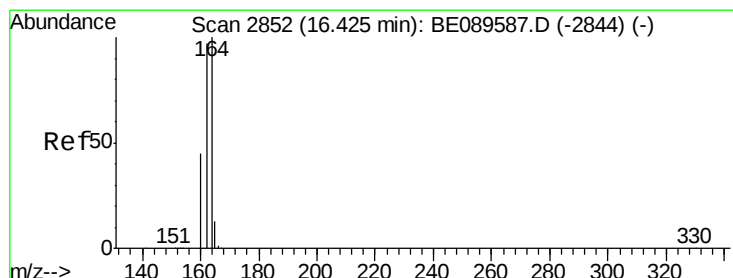
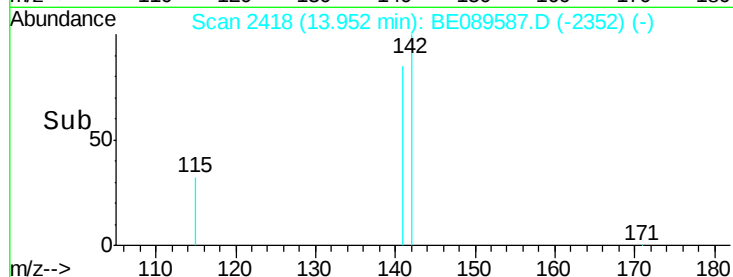
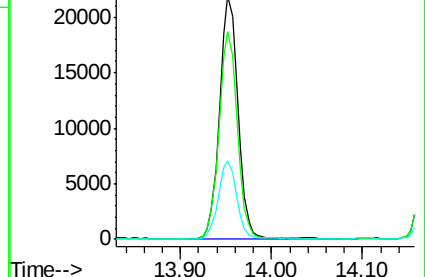
115 32.3 25.8 38.8



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: 16.43 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

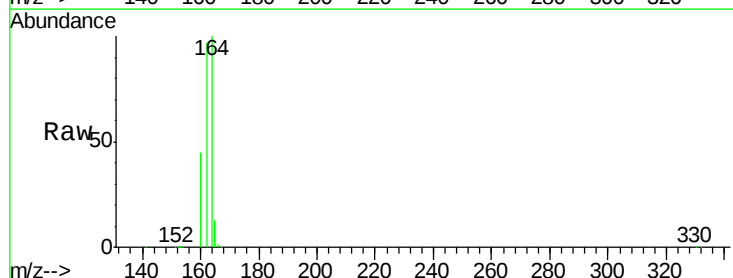
Tgt Ion:164 Resp: 89928

Ion Ratio Lower Upper

164 100

162 97.3 77.8 116.8

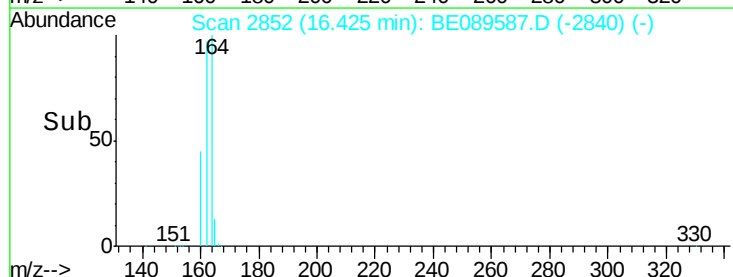
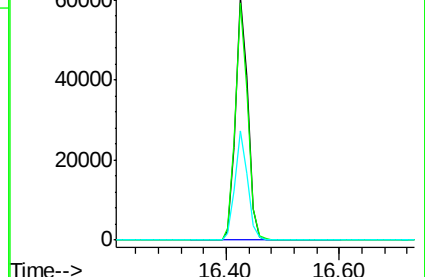
160 44.7 35.8 53.6

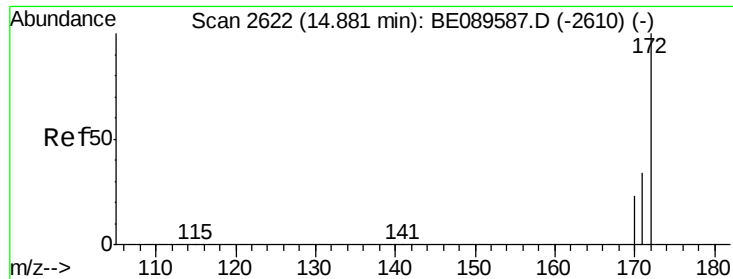


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

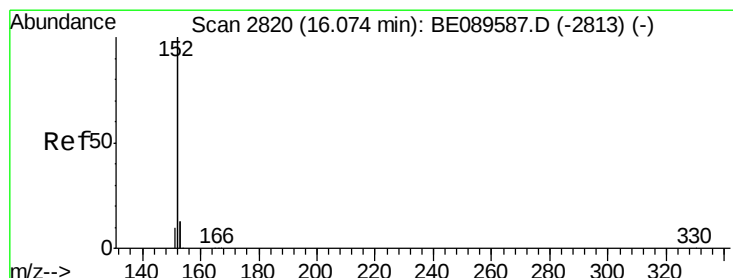
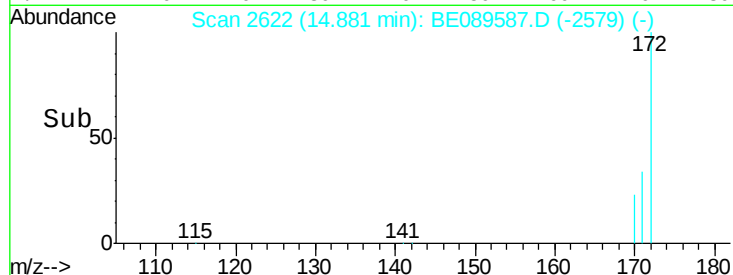
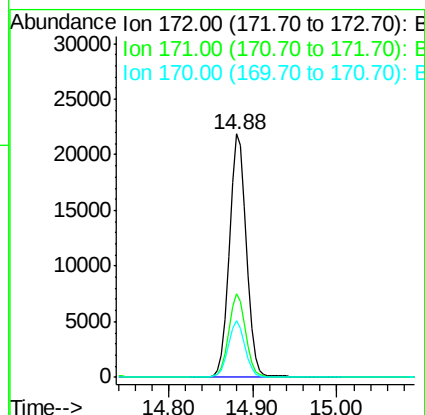
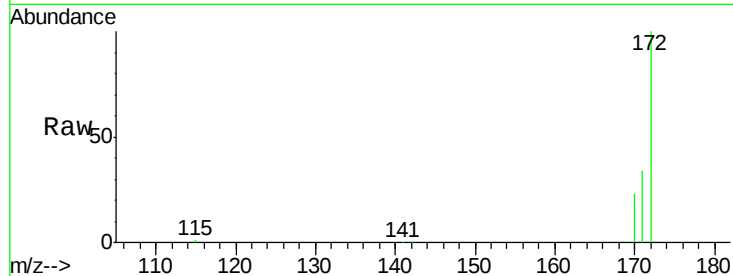




#9
 2-Fluorobiphenyl
 Concen: 1.06 ng
 RT: 14.88 min Scan# 2622
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

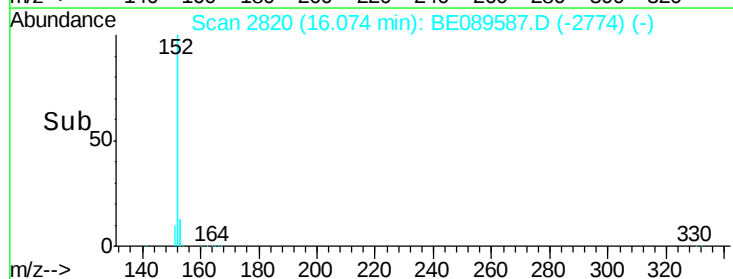
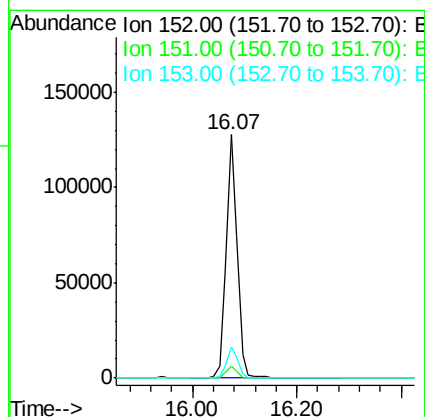
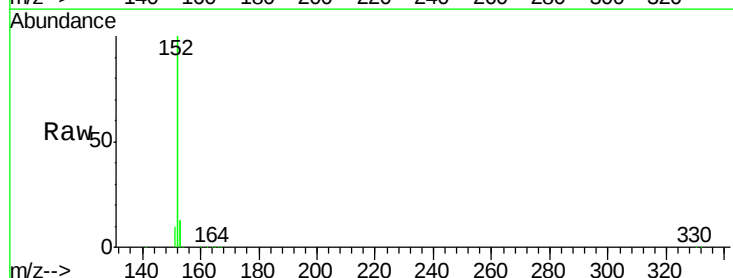
Instrument :
 BNA_E
 ClientSampleId :

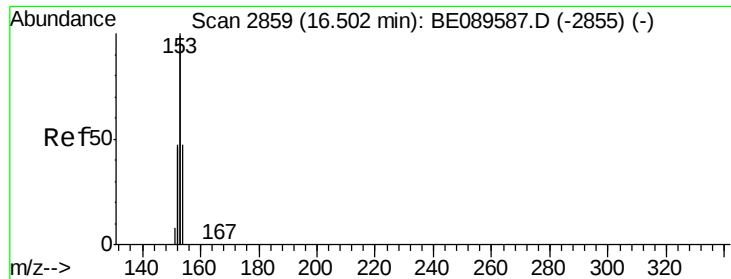
Tot Ion:172 Resp: 30285
 Ion Ratio Lower Upper
 172 100
 171 34.2 27.4 41.0
 170 23.2 18.6 27.8



#10
 Acenaphthylene
 Concen: 1.07 ng
 RT: 16.07 min Scan# 2820
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

Tgt Ion:152 Resp: 184423
 Ion Ratio Lower Upper
 152 100
 151 4.8 3.8 5.8
 153 13.0 10.4 15.6





#11

Acenaphthene

Concen: 1.04 ng

RT: 16.50 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

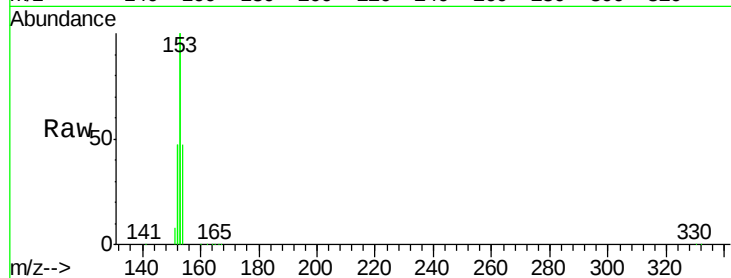
Tot Ion:154 Resp: 29280

Ion Ratio Lower Upper

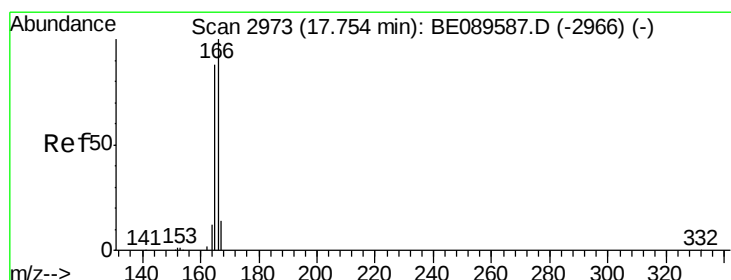
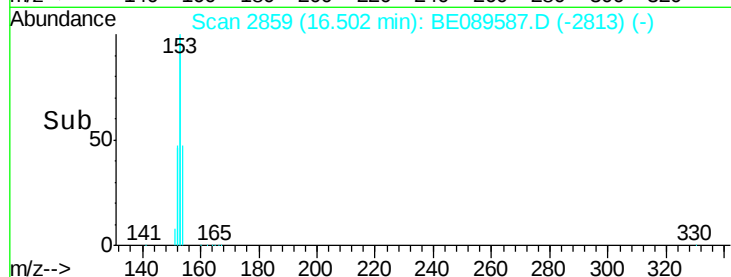
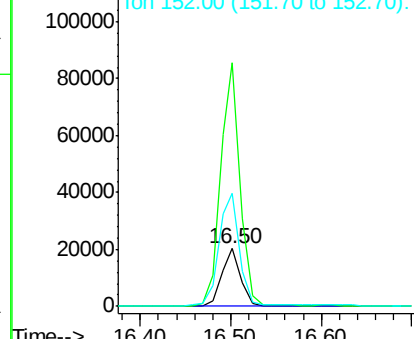
154 100

153 433.2 346.6 519.8

152 211.3 169.0 253.6



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: 1.05 ng

RT: 17.75 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

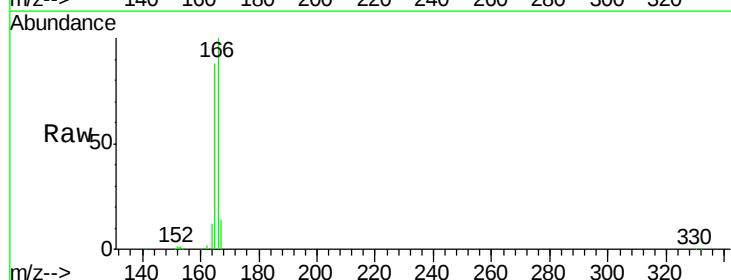
Tgt Ion:166 Resp: 32984

Ion Ratio Lower Upper

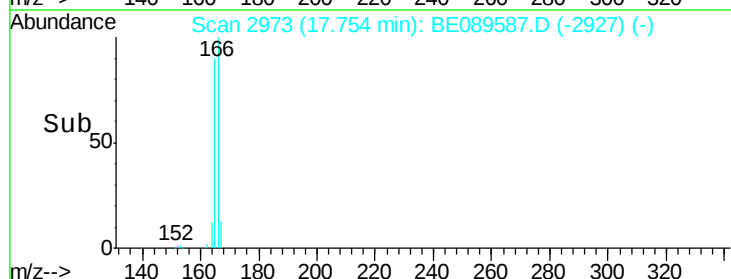
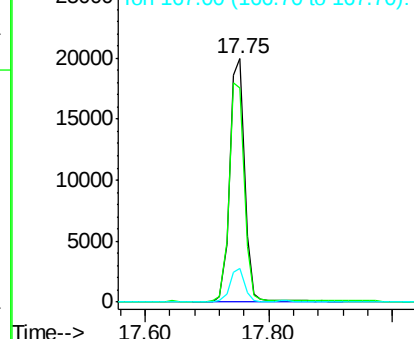
166 100

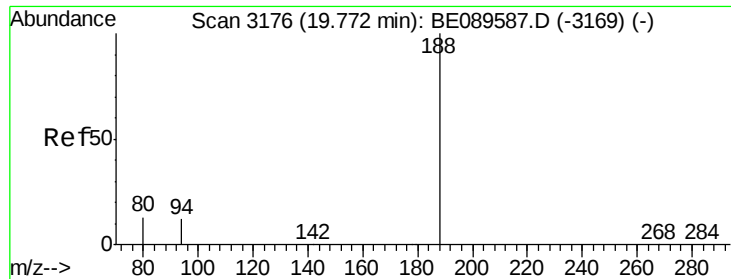
165 92.2 73.8 110.6

167 13.2 10.6 15.8



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

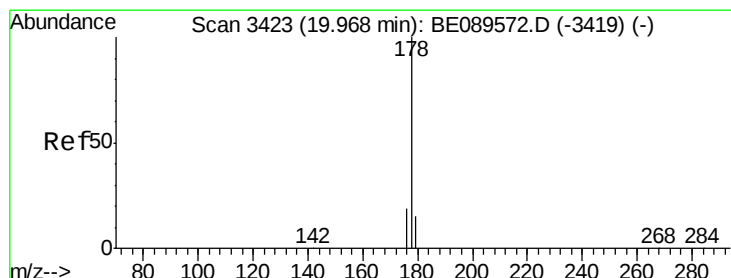
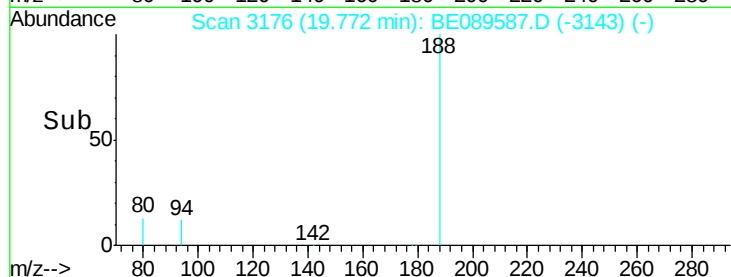
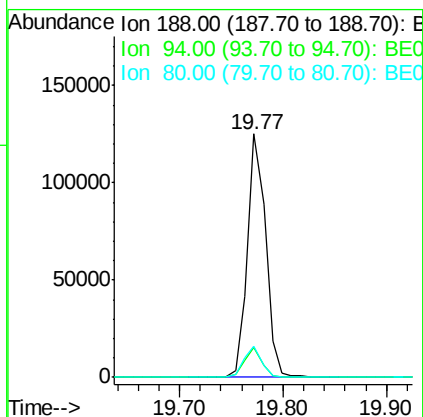
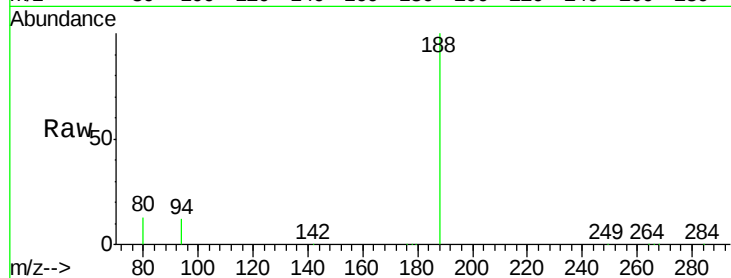




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089587.D
Acq: 17 Feb 2015 3:38

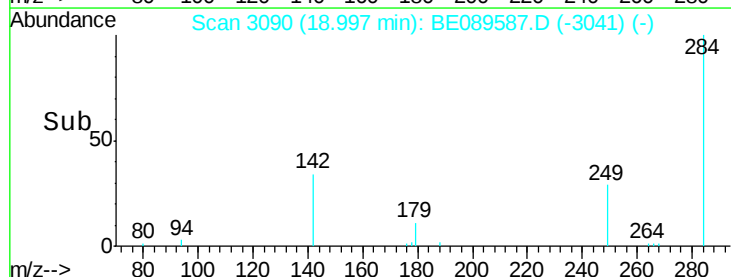
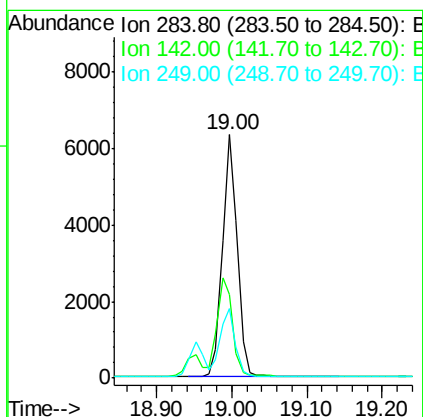
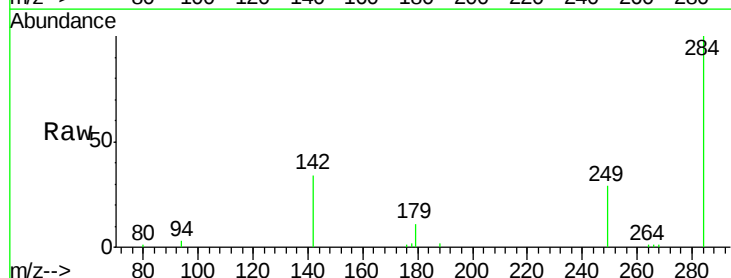
Instrument :
BNA_E
ClientSampleId :

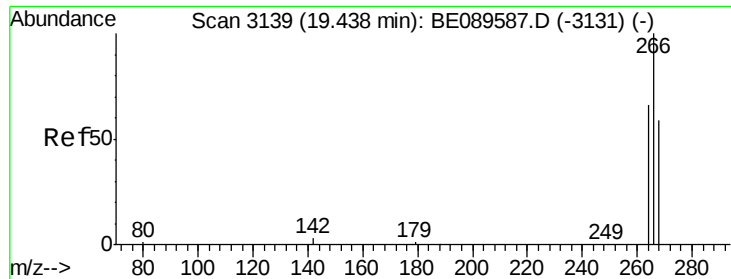
Tot Ion:188 Resp: 152882
Ion Ratio Lower Upper
188 100
94 12.3 9.8 14.8
80 12.8 10.2 15.4



#14
Hexachlorobenzene
Concen: 1.00 ng
RT: 19.00 min Scan# 3090
Delta R.T. 0.00 min
Lab File: BE089587.D
Acq: 17 Feb 2015 3:38

Tgt Ion:284 Resp: 8563
Ion Ratio Lower Upper
284 100
142 41.4 33.1 49.7
249 28.5 22.8 34.2

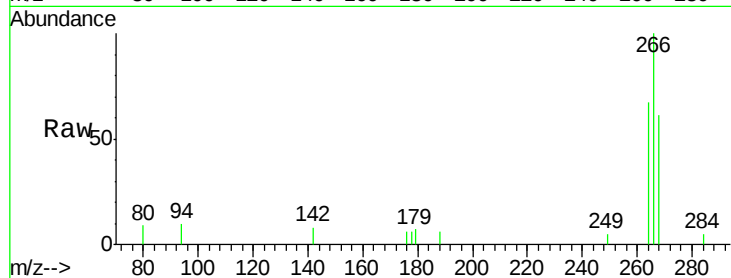




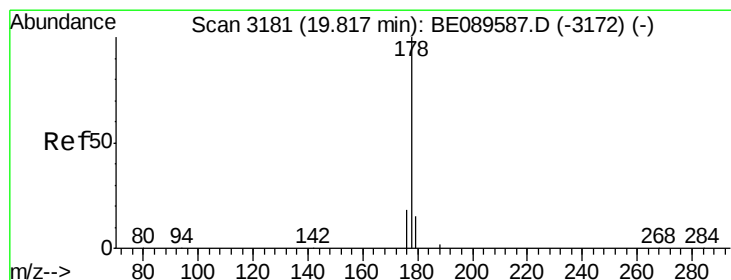
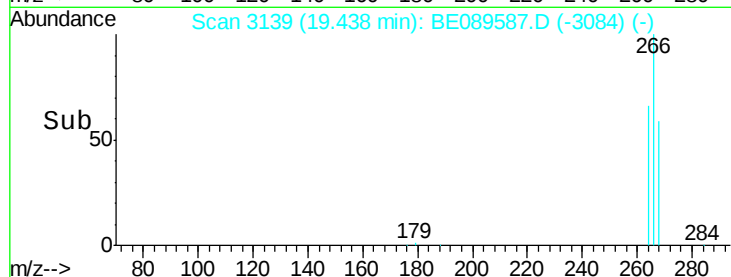
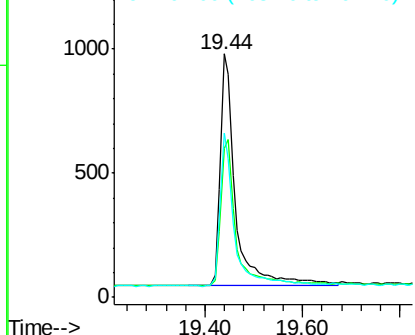
#15
 Pentachlorophenol
 Concen: 0.81 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:266 Resp: 2062
 Ion Ratio Lower Upper
 266 100
 268 61.0 48.8 73.2
 264 67.4 53.9 80.9

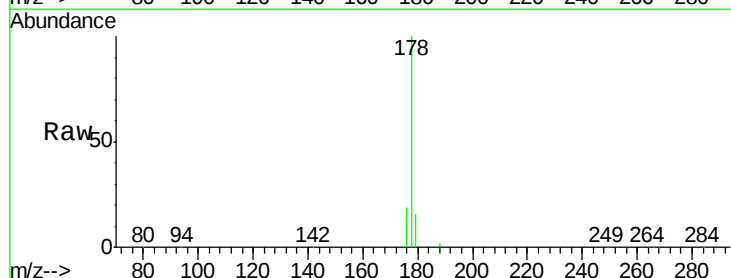


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

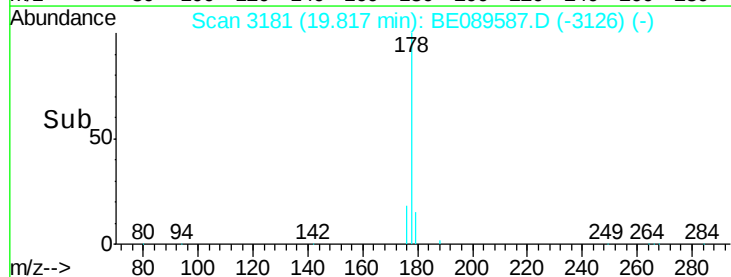
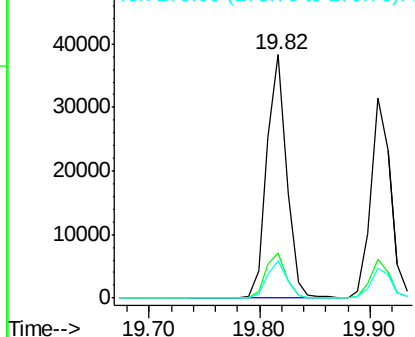


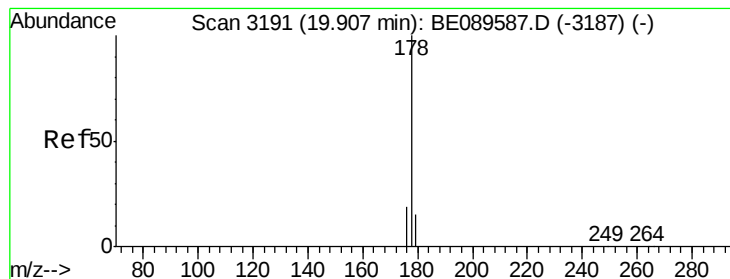
#16
 Phenanthrene
 Concen: 1.03 ng
 RT: 19.82 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

Tgt Ion:178 Resp: 47460
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.2 22.8
 179 15.5 12.4 18.6



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: 1.05 ng

RT: 19.91 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

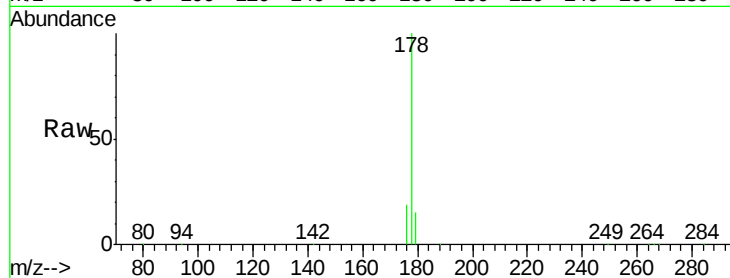
Tot Ion:178 Resp: 39744

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

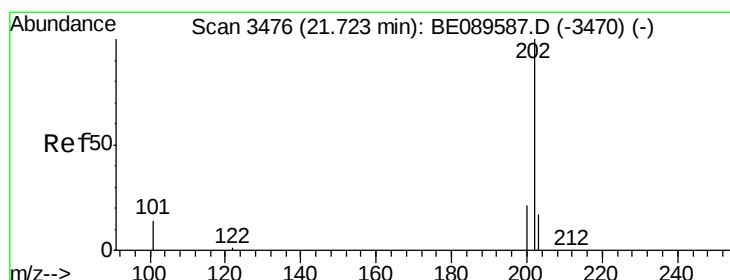
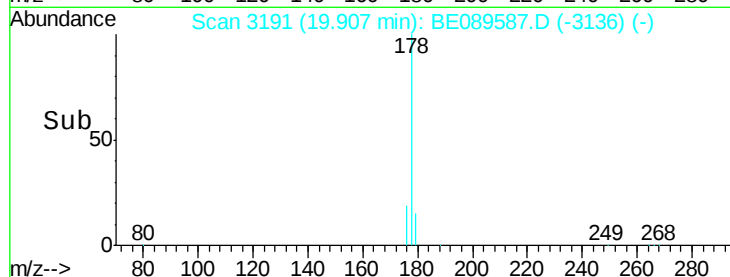
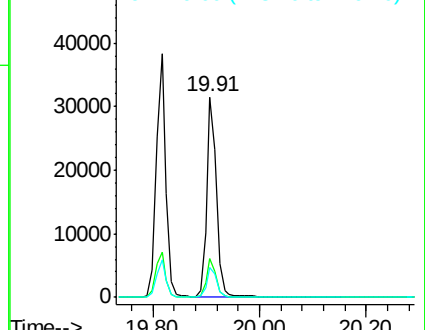
179 15.2 12.2 18.2



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: 1.04 ng

RT: 21.72 min Scan# 3476

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

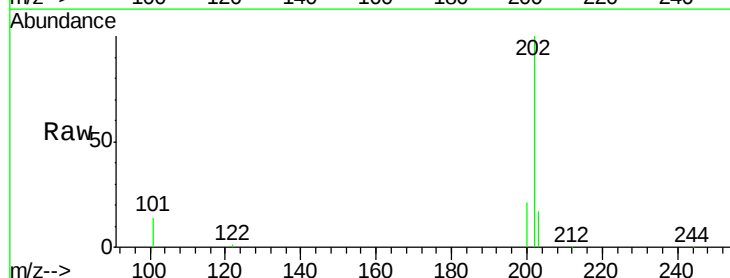
Tgt Ion:202 Resp: 39994

Ion Ratio Lower Upper

202 100

101 12.9 10.3 15.5

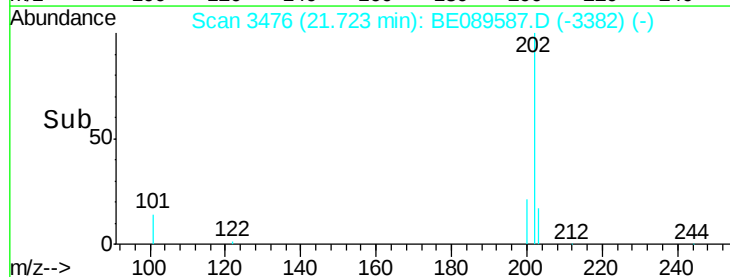
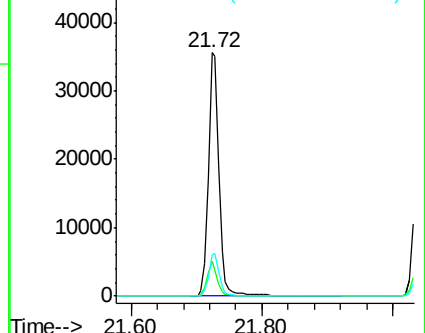
203 17.2 13.8 20.6

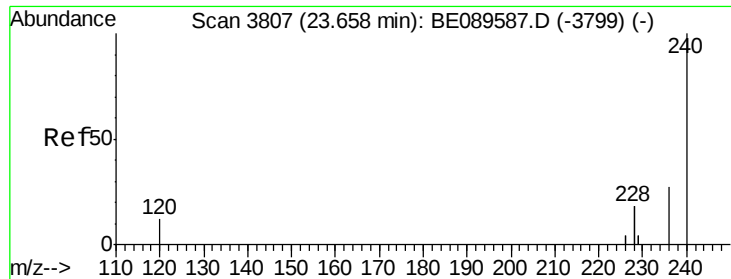


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampled :

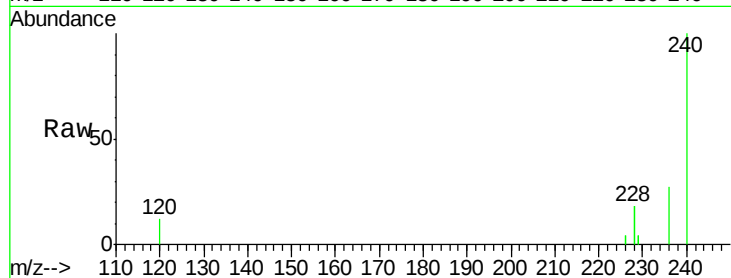
Tot Ion:240 Resp: 129685

Ion Ratio Lower Upper

240 100

120 12.4 9.9 14.9

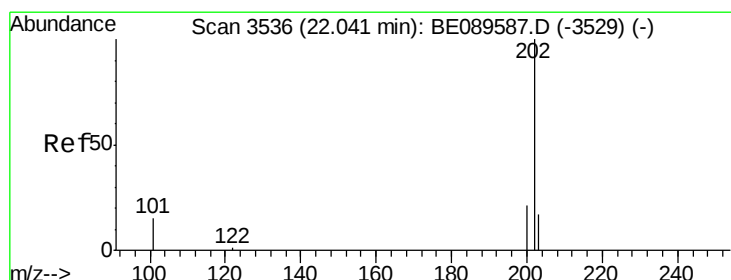
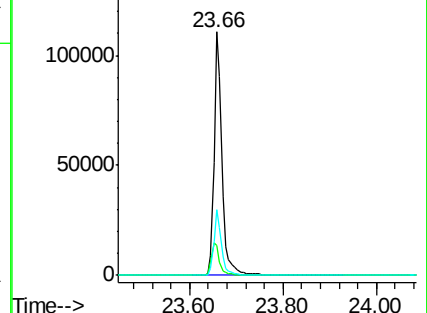
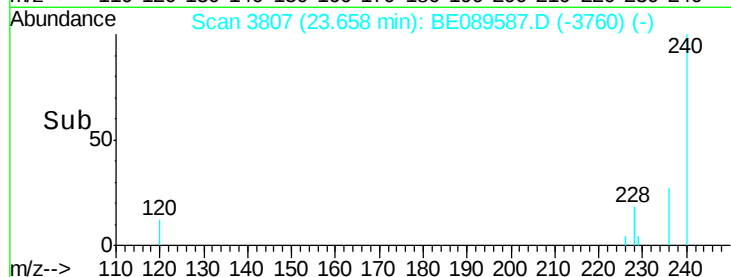
236 26.9 21.5 32.3



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: 1.06 ng

RT: 22.04 min Scan# 3536

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

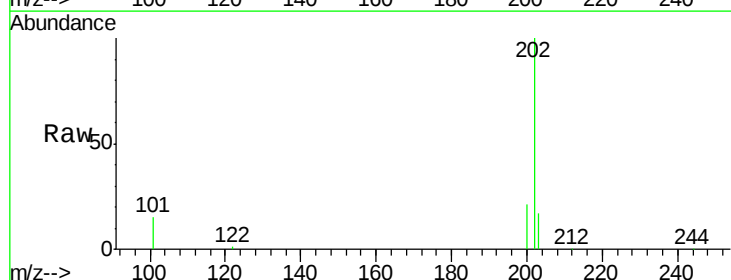
Tgt Ion:202 Resp: 43889

Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

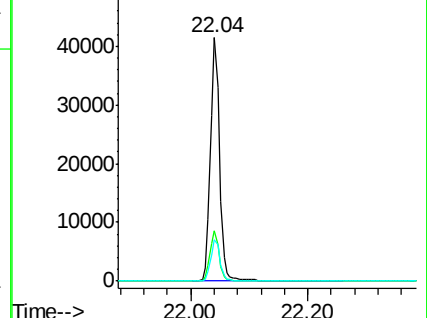
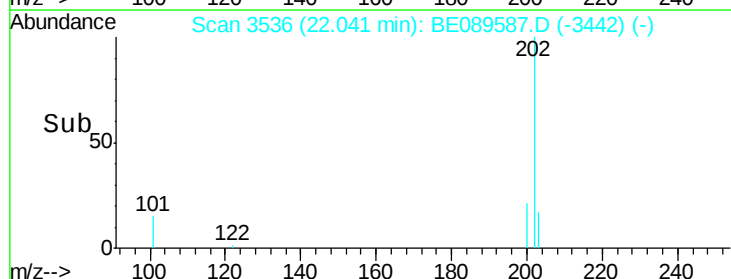
203 17.3 13.8 20.8

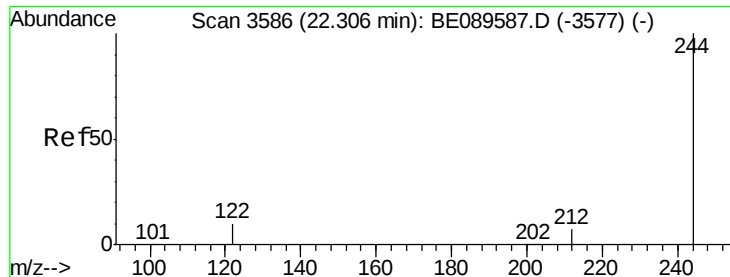


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 1.00 ng

RT: 22.31 min Scan# 3586

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

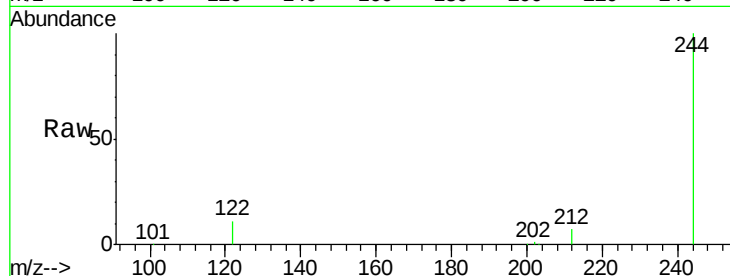
Tot Ion:244 Resp: 24211

Ion Ratio Lower Upper

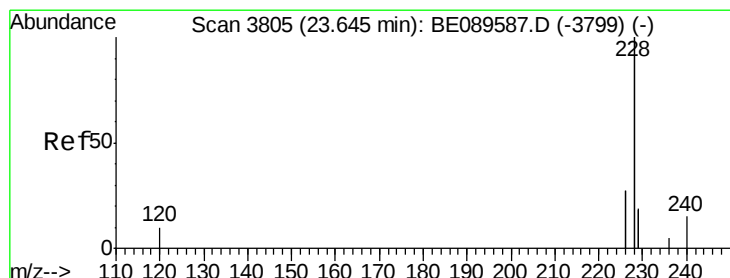
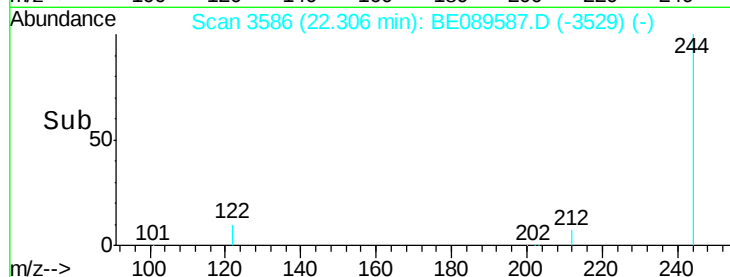
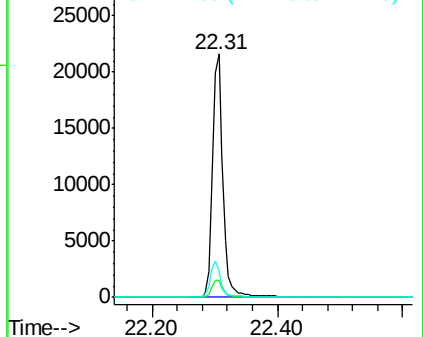
244 100

212 6.9 5.5 8.3

122 10.7 8.6 12.8



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: 1.01 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

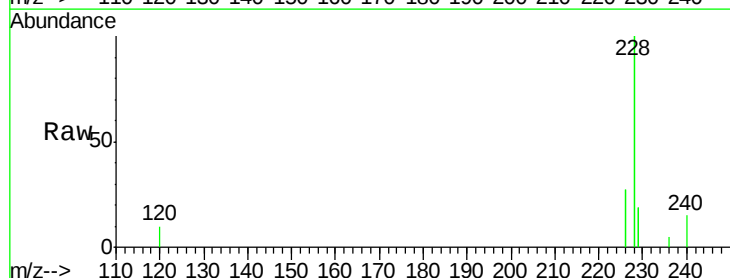
Tgt Ion:228 Resp: 135811

Ion Ratio Lower Upper

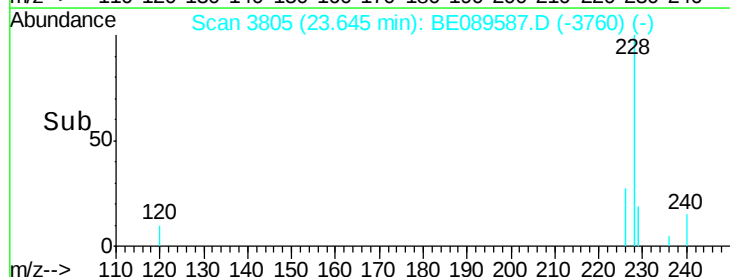
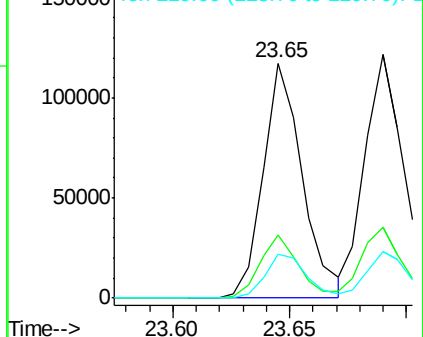
228 100

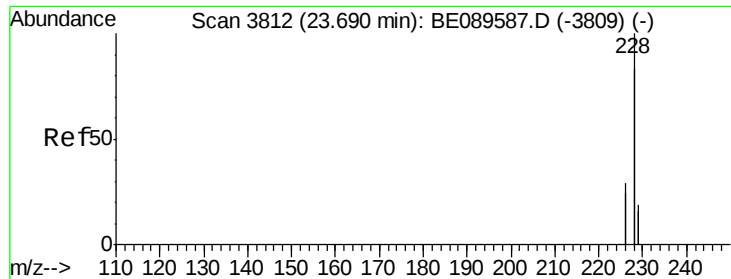
226 26.9 21.5 32.3

229 18.7 15.0 22.4



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: 1.02 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

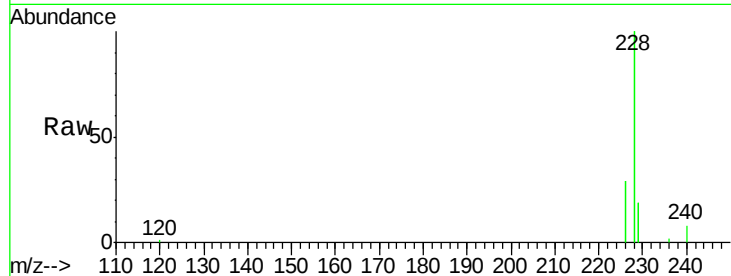
Tot Ion:228 Resp: 161659

Ion Ratio Lower Upper

228 100

226 29.1 23.3 34.9

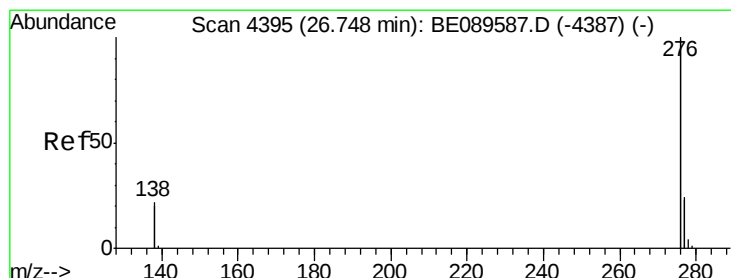
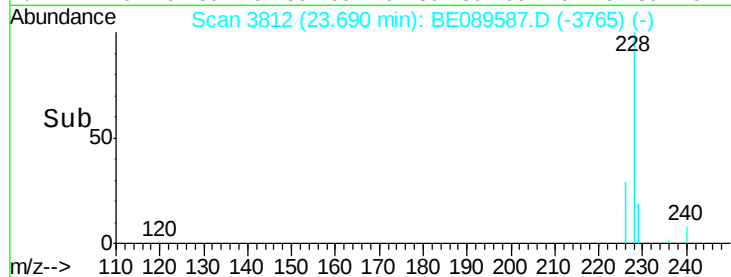
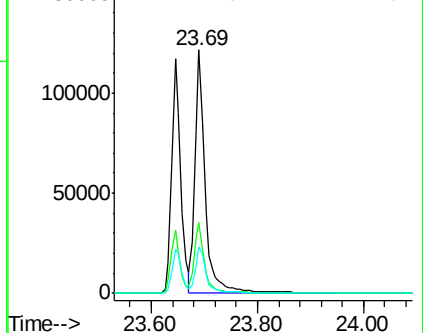
229 19.3 15.4 23.2



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: 1.06 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

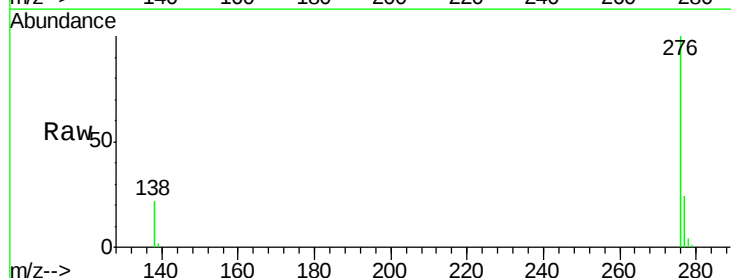
Tgt Ion:276 Resp: 122806

Ion Ratio Lower Upper

276 100

138 26.3 21.0 31.6

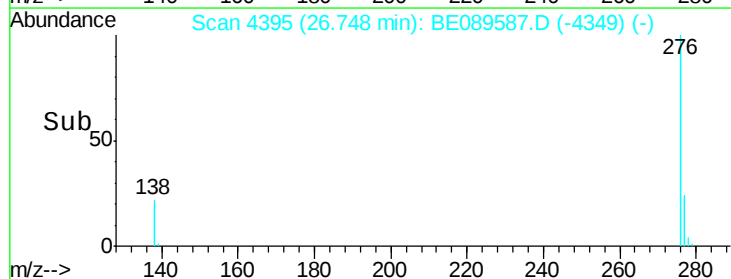
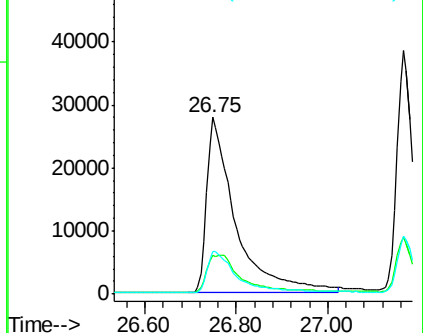
277 25.0 20.0 30.0

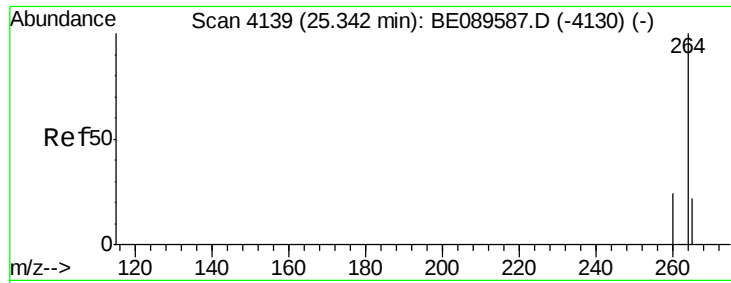


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

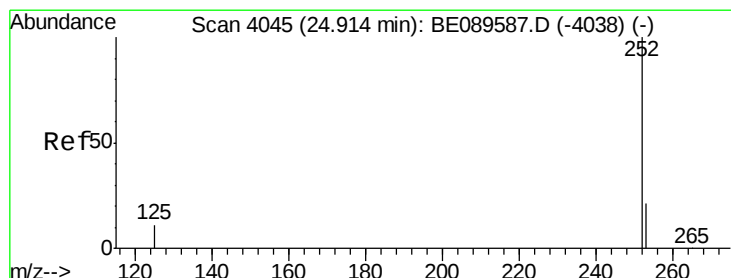
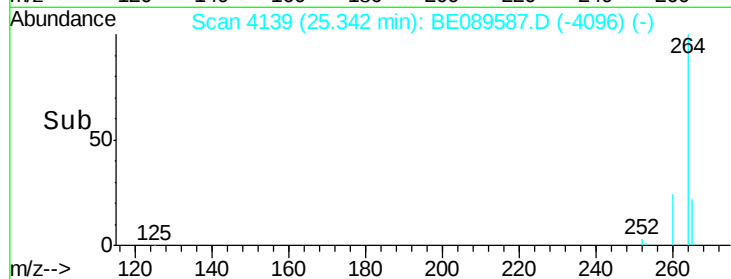
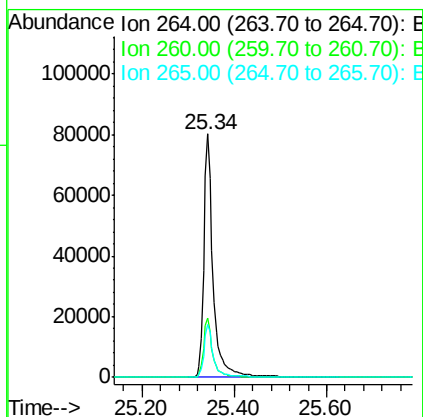
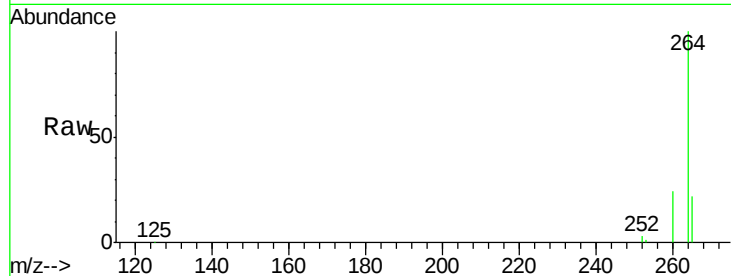




#25
 Pervlene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4139
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

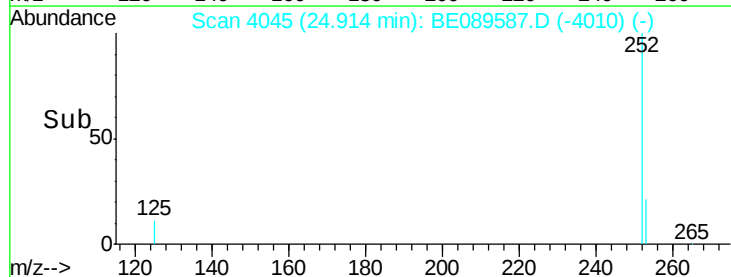
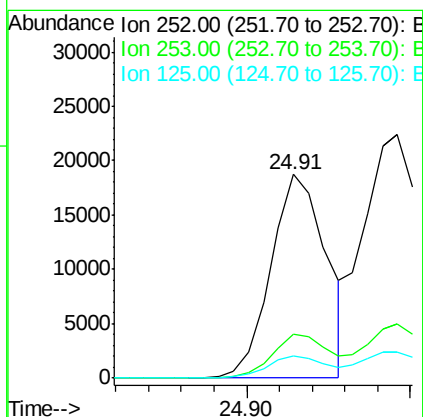
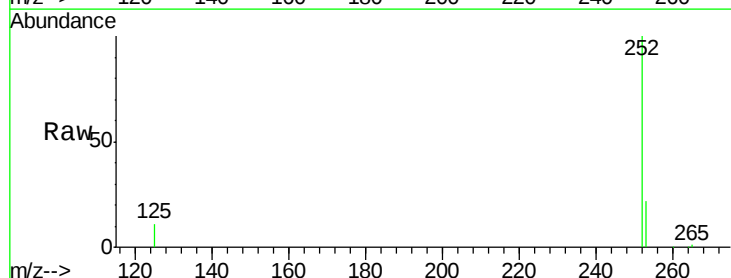
Instrument :
 BNA_E
 ClientSampleId :

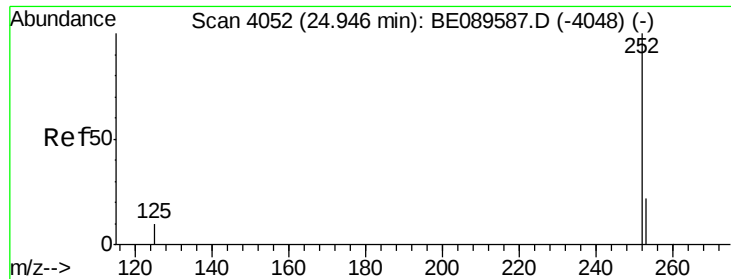
Tot Ion:264 Resp: 110711
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.4 29.0
 265 21.7 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.98 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. 0.00 min
 Lab File: BE089587.D
 Acq: 17 Feb 2015 3:38

Tgt Ion:252 Resp: 21918
 Ion Ratio Lower Upper
 252 100
 253 21.6 17.3 25.9
 125 11.1 8.9 13.3





#27

Benzo(k)fluoranthene

Concen: 1.13 ng

RT: 24.95 min Scan# 4052

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

Instrument :

BNA_E

ClientSampleId :

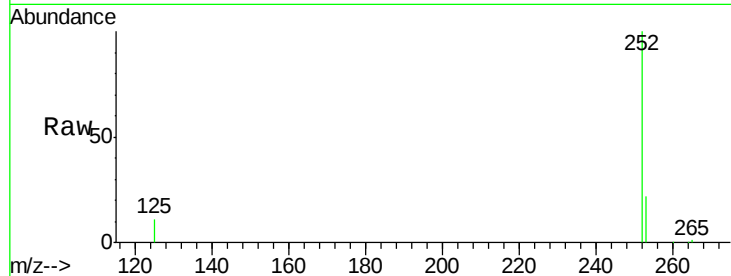
Tot Ion:252 Resp: 41395

Ion Ratio Lower Upper

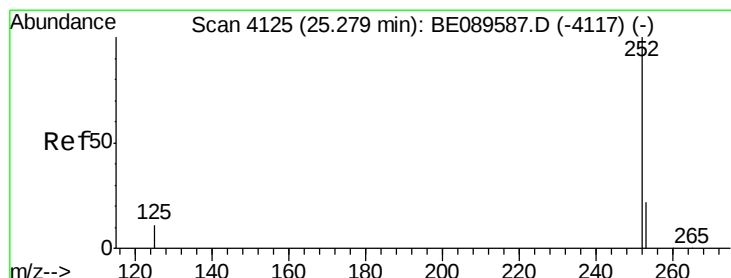
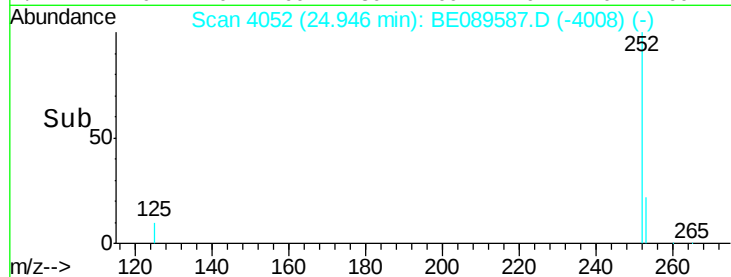
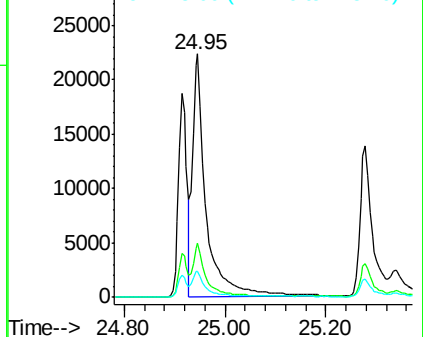
252 100

253 22.4 17.9 26.9

125 10.8 8.6 13.0



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



#28

Benzo(a)pyrene

Concen: 1.02 ng

RT: 25.28 min Scan# 4125

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 17 Feb 2015 3:38

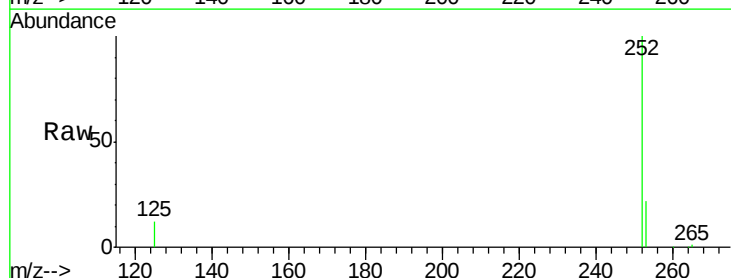
Tgt Ion:252 Resp: 22217

Ion Ratio Lower Upper

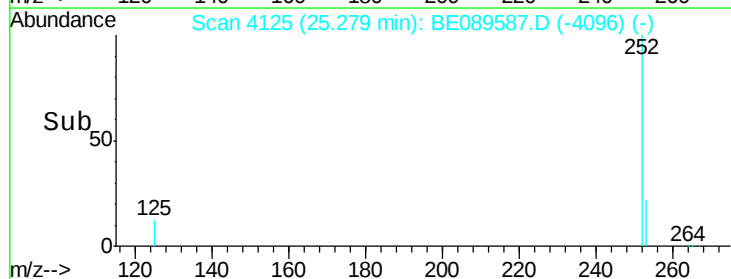
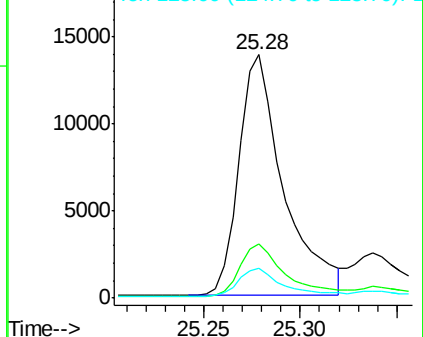
252 100

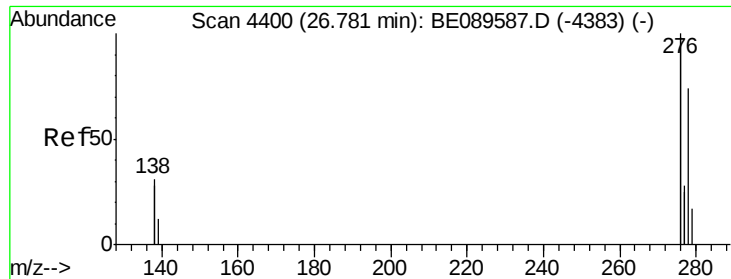
253 22.1 17.7 26.5

125 12.0 9.6 14.4



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

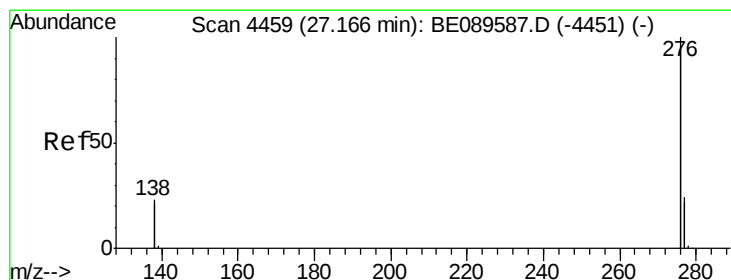
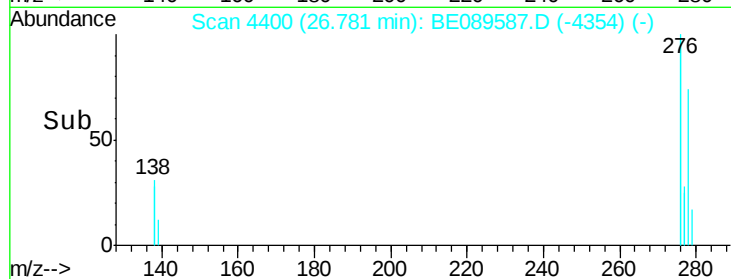
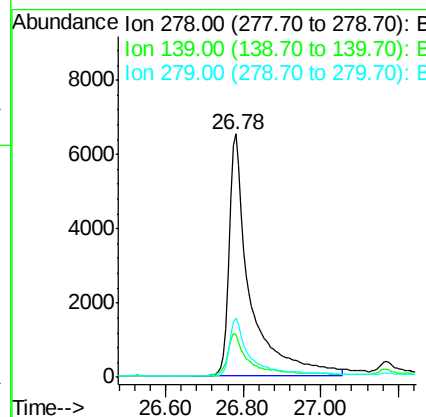
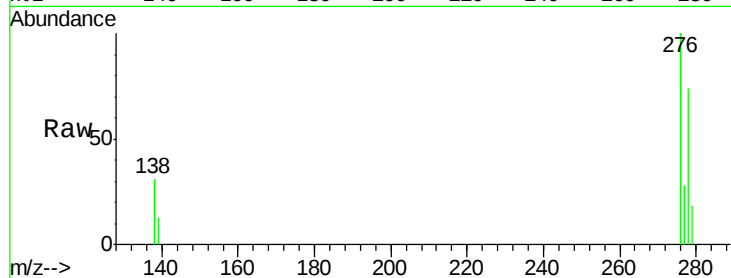




#29
Dibenzo(a,h)anthracene
Concen: 1.08 ng
RT: 26.78 min Scan# 4400
Delta R.T. 0.00 min
Lab File: BE089587.D
Acq: 17 Feb 2015 3:38

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 24012
Ion Ratio Lower Upper
278 100
139 17.4 13.9 20.9
279 24.4 19.5 29.3



#30
Benzo(g,h,i)perylene
Concen: 1.07 ng
RT: 27.17 min Scan# 4459
Delta R.T. 0.00 min
Lab File: BE089587.D
Acq: 17 Feb 2015 3:38

Tgt Ion:276 Resp: 116164
Ion Ratio Lower Upper
276 100
277 23.9 19.1 28.7
138 23.1 18.5 27.7

