

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088125.D
 Acq On : 21 Oct 2014 4:39
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Oct 21 05:26:29 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

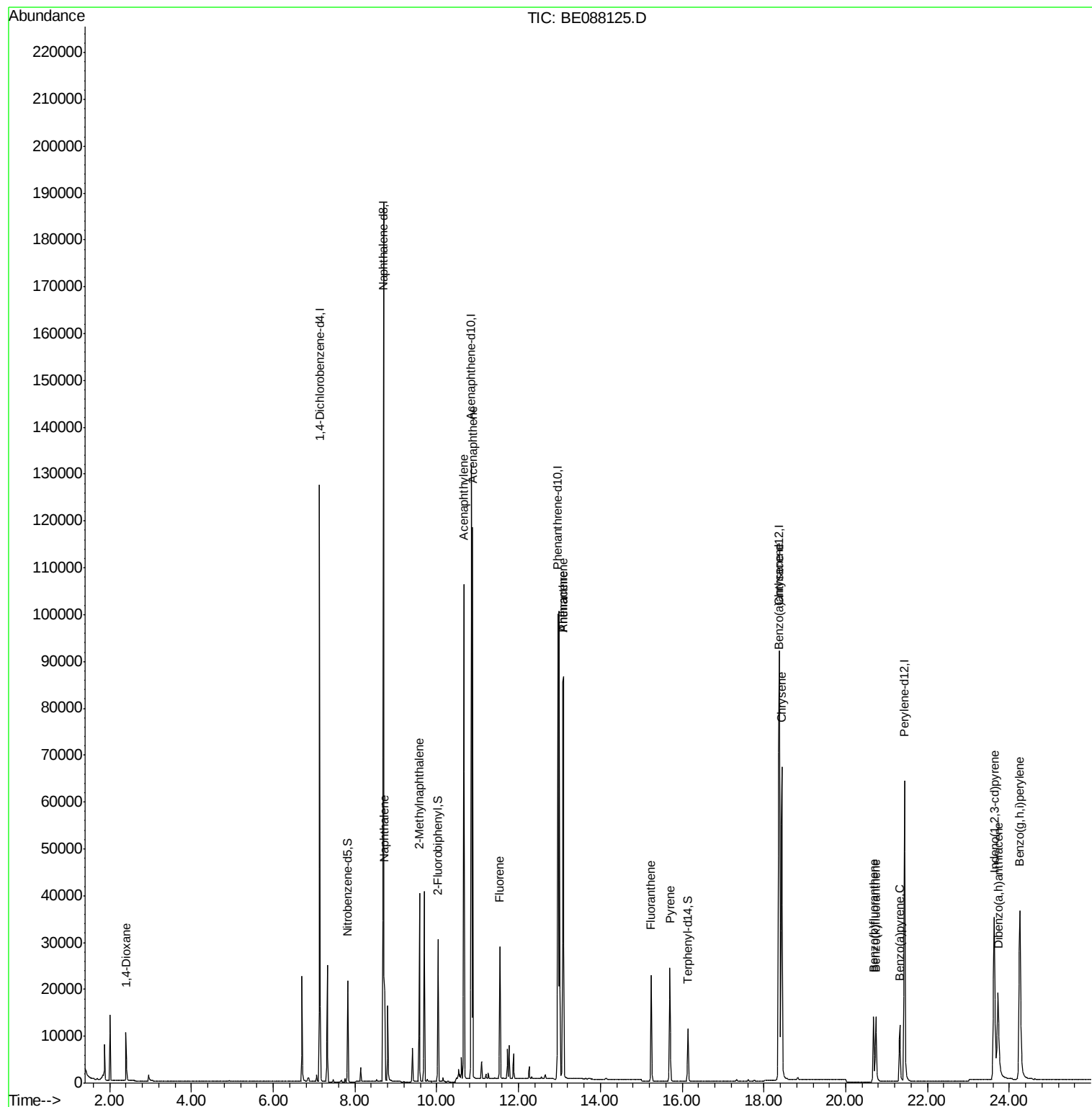
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	40522	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	152591	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	68309	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	121370	5.00	ng	0.00
16) Chrysene-d12	18.38	240	89341	5.00	ng	0.00
22) Perylene-d12	21.44	264	81489	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	11128	1.01	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	19631	1.04	ng	0.00
18) Terphenyl-d14	16.14	244	14356	1.00	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.40	88	6057	1.04	ng	100
5) Naphthalene	8.72	128	32330	1.03	ng	99
6) 2-Methylnaphthalene	9.57	142	19468	1.03	ng	100
9) Acenaphthylene	10.66	152	108701	1.04	ng	100
10) Acenaphthene	10.88	154	16456	1.02	ng	99
11) Fluorene	11.54	166	17616	1.03	ng	100
13) Phenanthrene	13.09	178	95850	0.89	ng	96
14) Anthracene	13.09	178	95850	1.01	ng	100
15) Fluoranthene	15.25	202	22495	0.97	ng	99
17) Pyrene	15.70	202	24201	1.00	ng	100
19) Benzo(a)anthracene	18.36	228	75581	0.95	ng	99
20) Chrysene	18.43	228	78158	1.00	ng	99
21) Indeno(1,2,3-cd)pyrene	23.63	276	64467	0.74	ng	# 87
23) Benzo(b)fluoranthene	20.68	252	18781	0.97	ng	99
24) Benzo(k)fluoranthene	20.74	252	20656	0.99	ng	100
25) Benzo(a)pyrene	21.32	252	17302	0.97	ng	100
26) Dibenzo(a,h)anthracene	23.73	278	16522	0.94	ng	98
27) Benzo(g,h,i)perylene	24.26	276	73582	0.95	ng	100

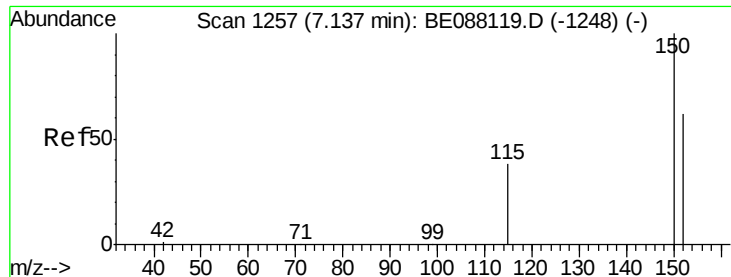
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1257

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

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ClientSampleId :

SSTDCCC001

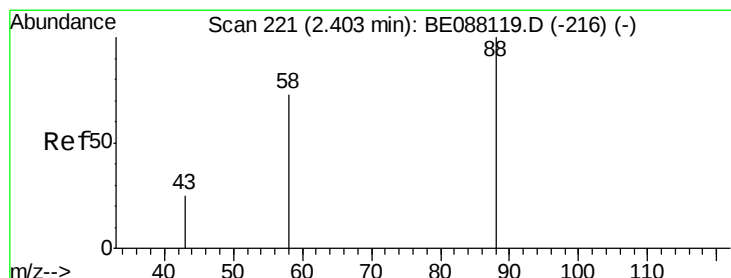
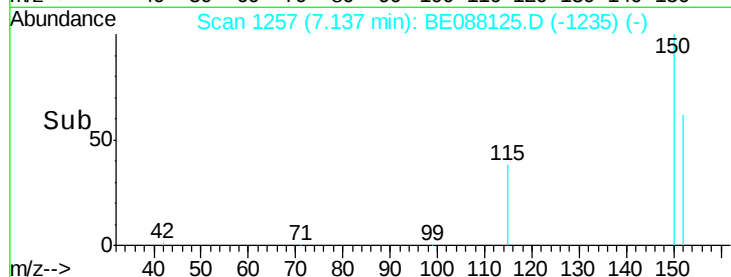
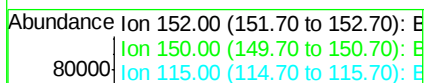
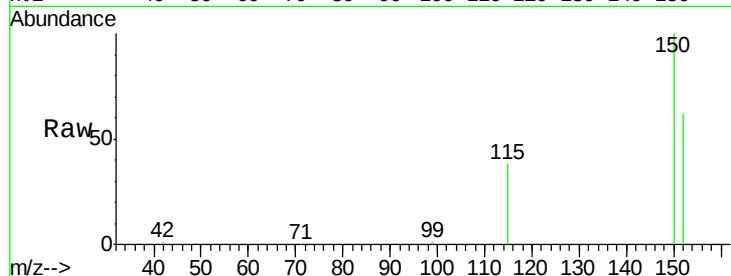
Tgt Ion:152 Resp: 40522

Ion Ratio Lower Upper

152 100

150 160.2 129.2 193.8

115 60.5 49.3 73.9



#2

1,4-Dioxane

Concen: 1.04 ng

RT: 2.40 min Scan# 221

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

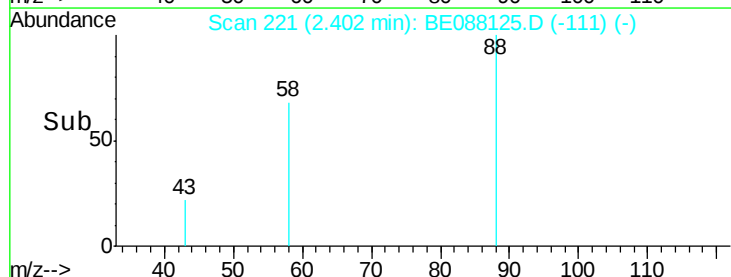
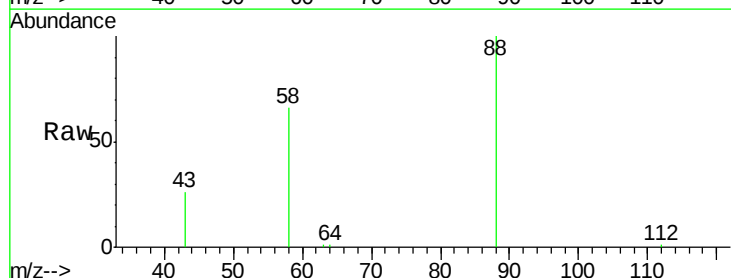
Tgt Ion: 88 Resp: 6057

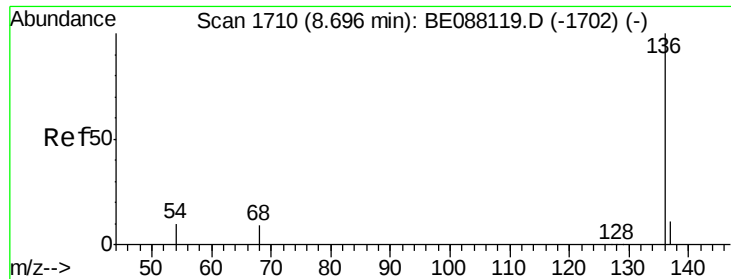
Ion Ratio Lower Upper

88 100

58 74.1 59.5 89.3

43 26.5 21.2 31.8





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

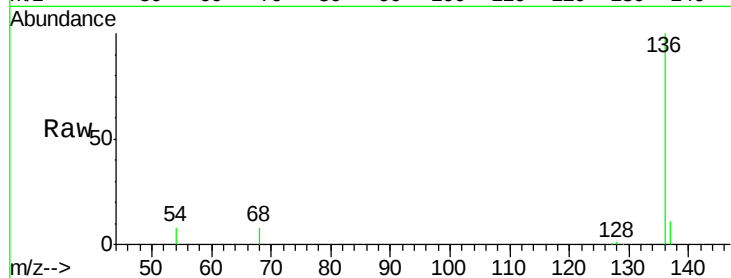
Tgt Ion: 136 Resp: 152591

Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

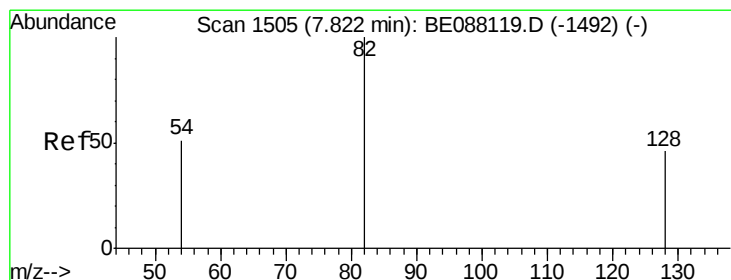
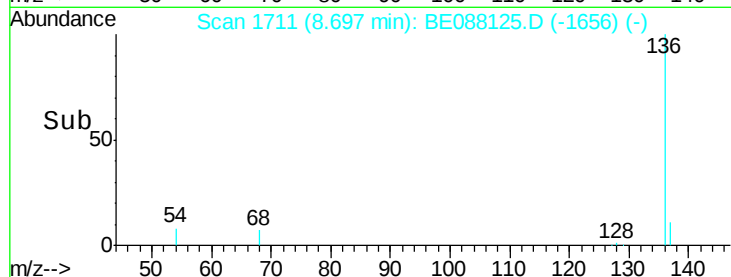
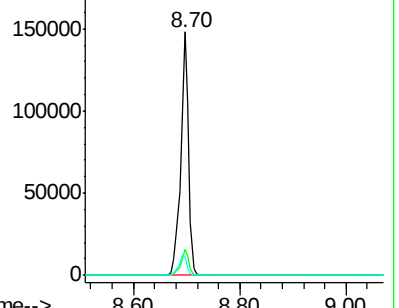
54 7.7 7.7 11.5



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 1.01 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

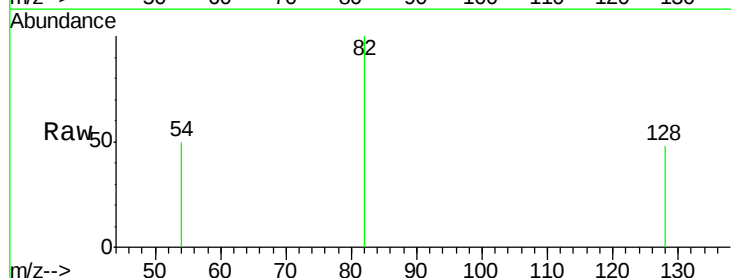
Tgt Ion: 82 Resp: 11128

Ion Ratio Lower Upper

82 100

128 47.8 37.1 55.7

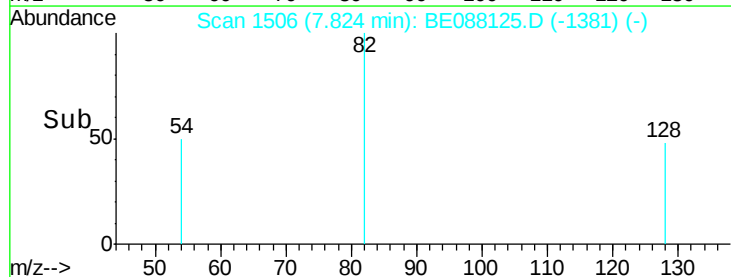
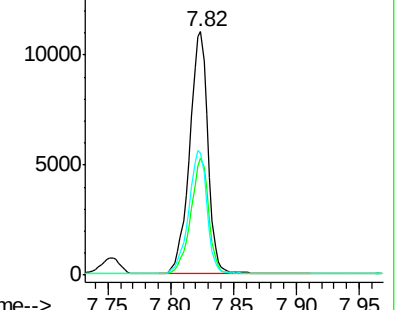
54 49.9 41.1 61.7



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





#5

Naphthalene

Concen: 1.03 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

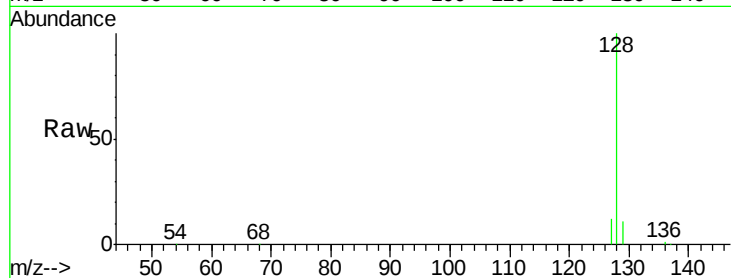
Tgt Ion:128 Resp: 32330

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

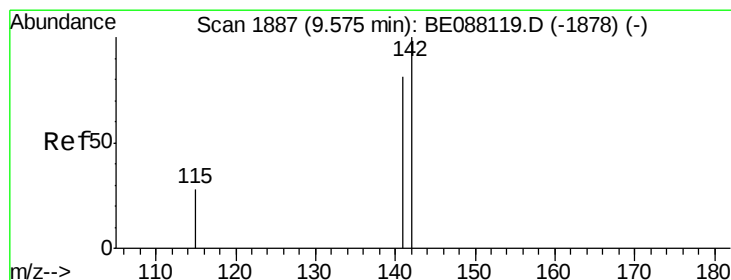
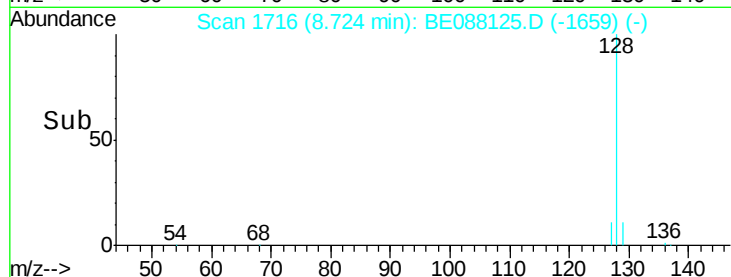
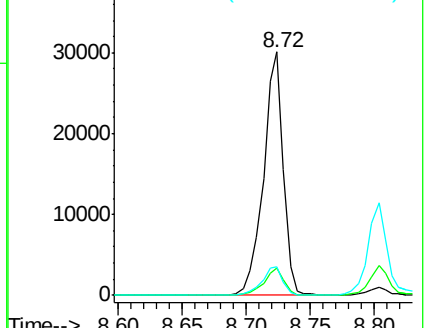
127 11.6 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 1.03 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

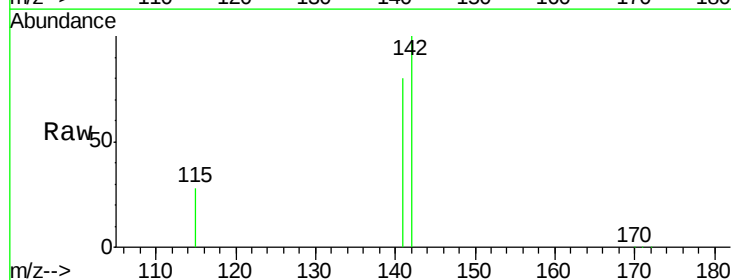
Tgt Ion:142 Resp: 19468

Ion Ratio Lower Upper

142 100

141 80.3 64.6 97.0

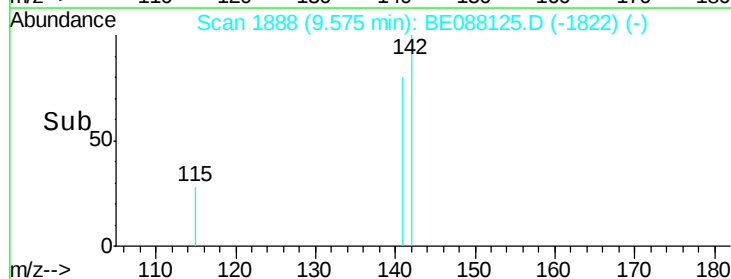
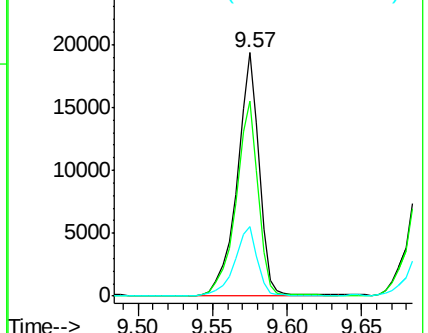
115 28.4 22.6 34.0



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





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

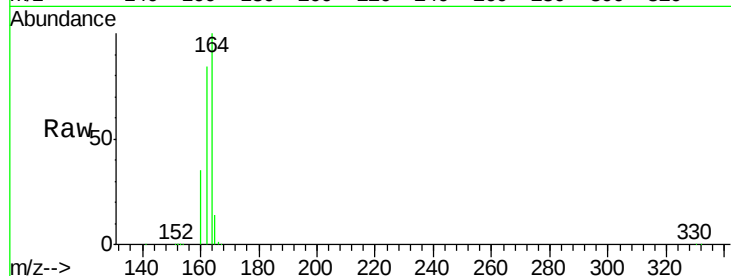
Tgt Ion:164 Resp: 68309

Ion Ratio Lower Upper

164 100

162 84.0 68.3 102.5

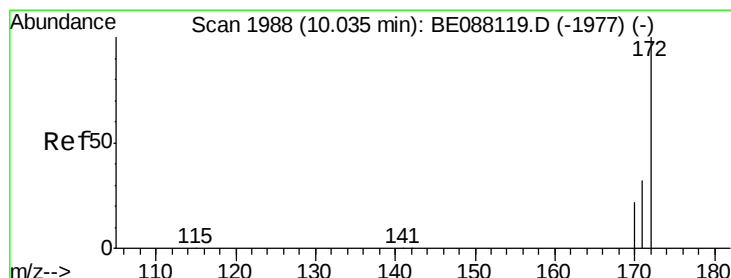
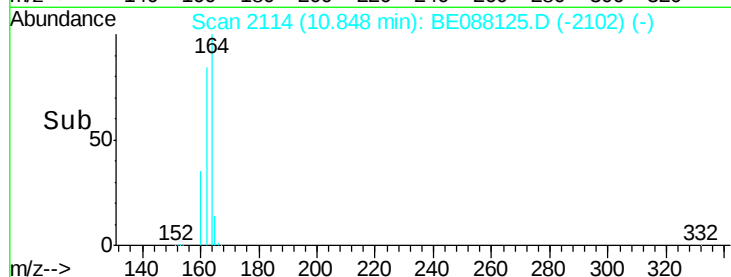
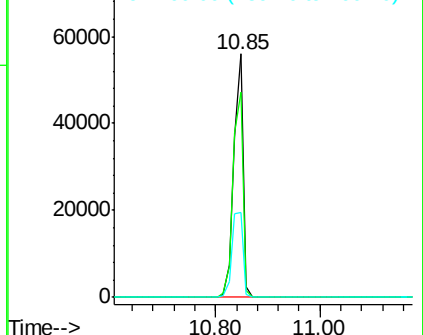
160 34.7 28.7 43.1



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



#8

2-Fluorobiphenyl

Concen: 1.04 ng

RT: 10.03 min Scan# 1989

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

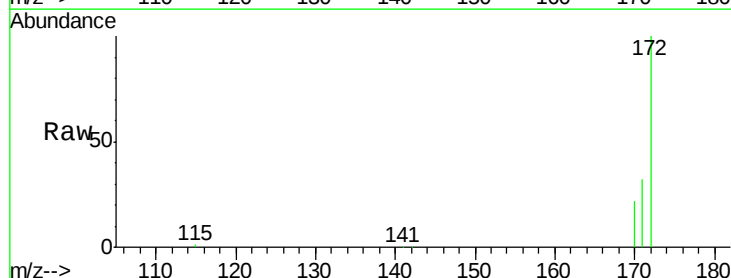
Tgt Ion:172 Resp: 19631

Ion Ratio Lower Upper

172 100

171 32.0 25.4 38.2

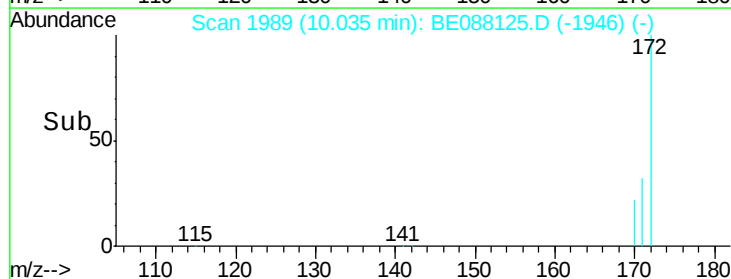
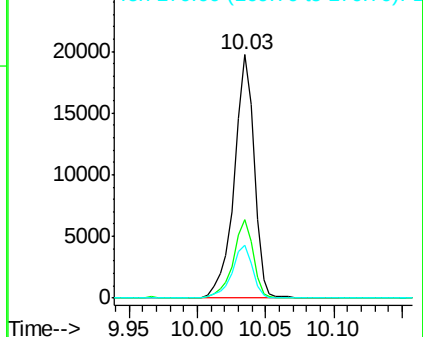
170 21.8 17.4 26.2

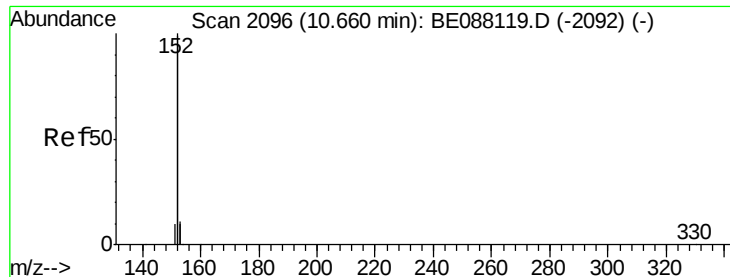


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.04 ng

RT: 10.66 min Scan# 2097

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

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SSTDCCC001

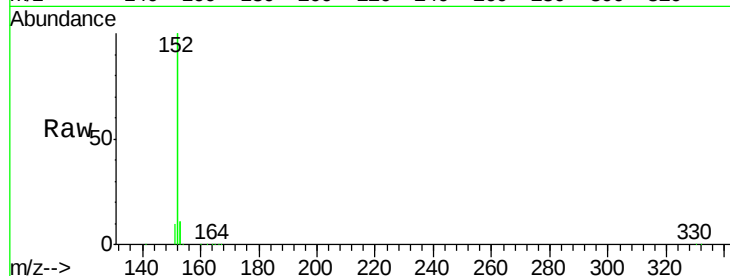
Tgt Ion:152 Resp: 108701

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

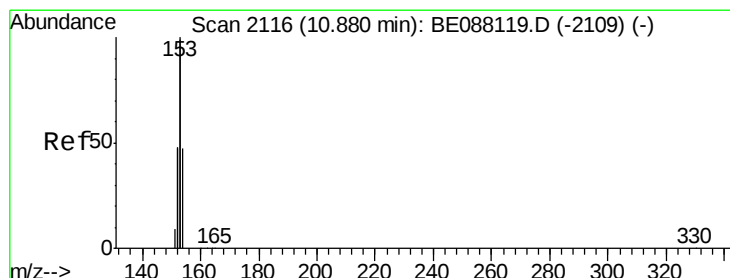
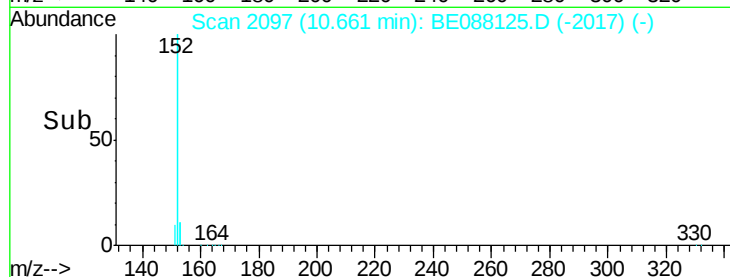
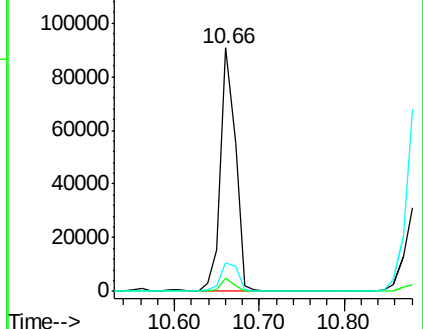
153 13.0 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 1.02 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

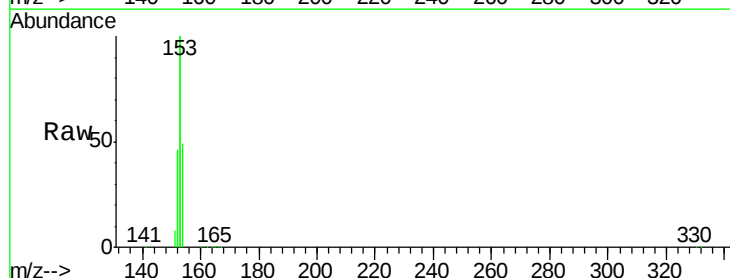
Tgt Ion:154 Resp: 16456

Ion Ratio Lower Upper

154 100

153 408.5 327.8 491.6

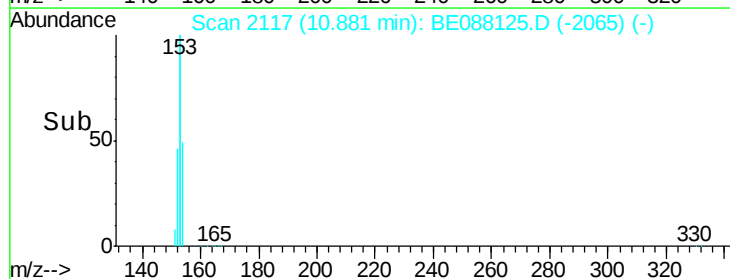
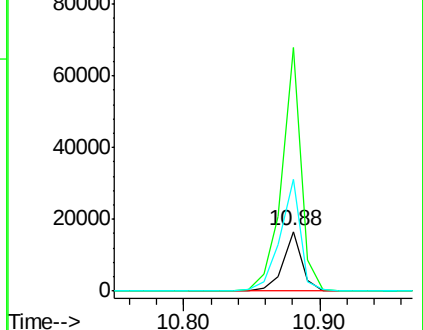
152 196.0 157.6 236.4



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





#11

Fluorene

Concen: 1.03 ng

RT: 11.54 min Scan# 2177

Delta R.T. -0.01 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

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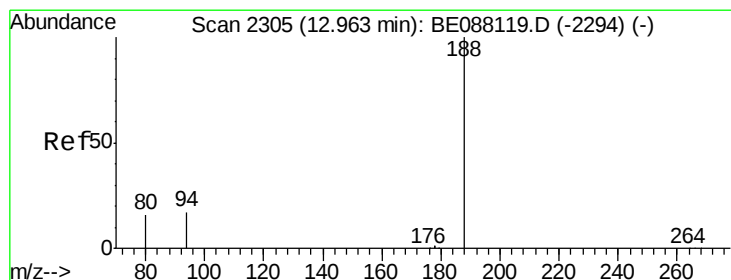
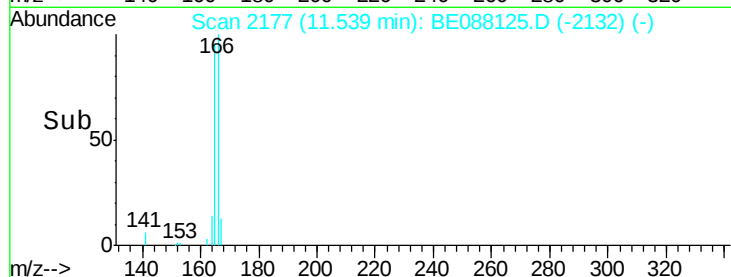
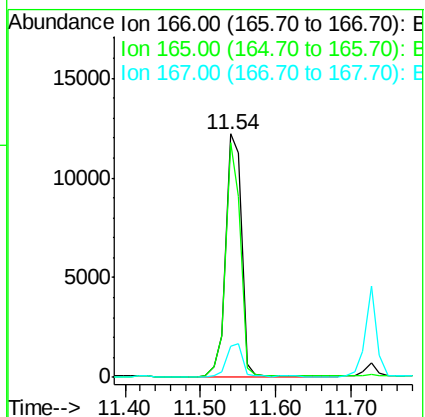
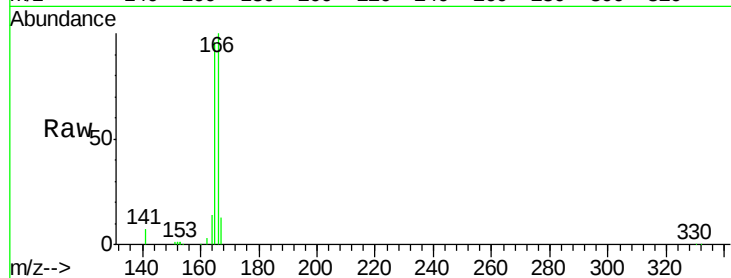
Tgt Ion:166 Resp: 17616

Ion Ratio Lower Upper

166 100

165 89.6 71.4 107.2

167 13.5 10.6 16.0



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

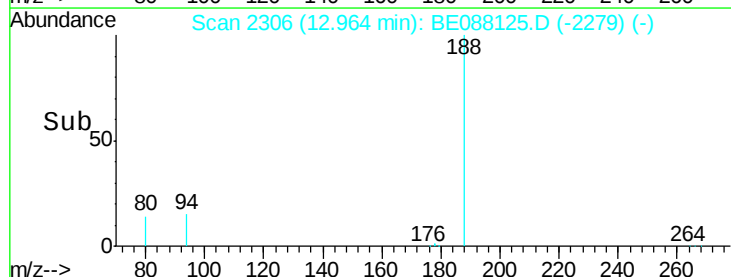
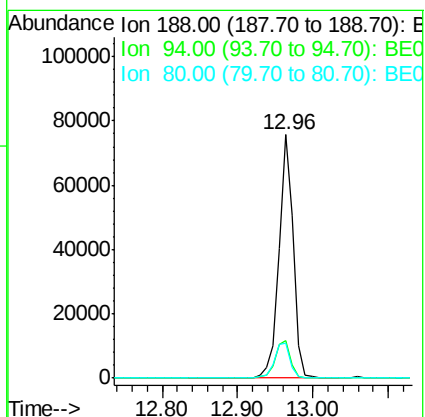
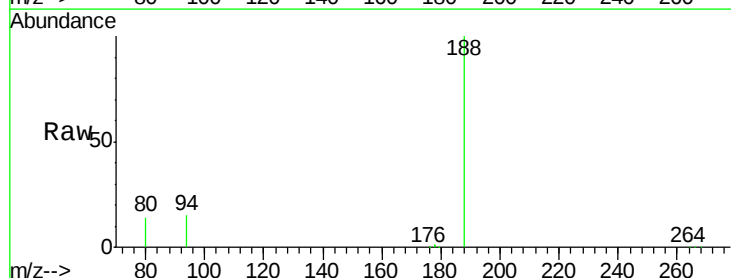
Tgt Ion:188 Resp: 121370

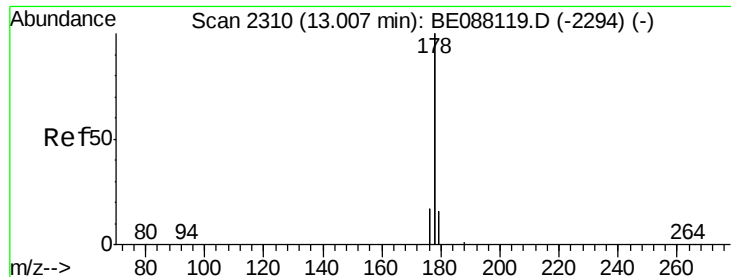
Ion Ratio Lower Upper

188 100

94 15.5 13.9 20.9

80 14.2 12.9 19.3





#13

Phenanthrene

Concen: 0.89 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.09 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

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SSTDCCC001

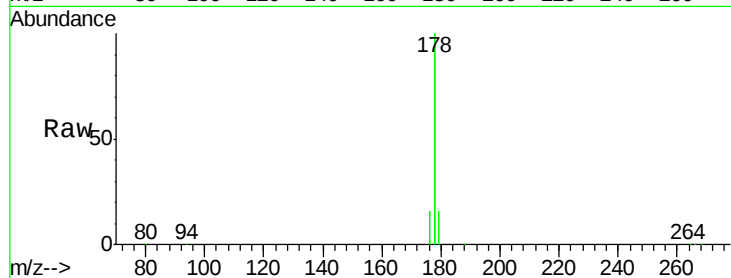
Tgt Ion:178 Resp: 95850

Ion Ratio Lower Upper

178 100

176 18.4 12.5 18.7

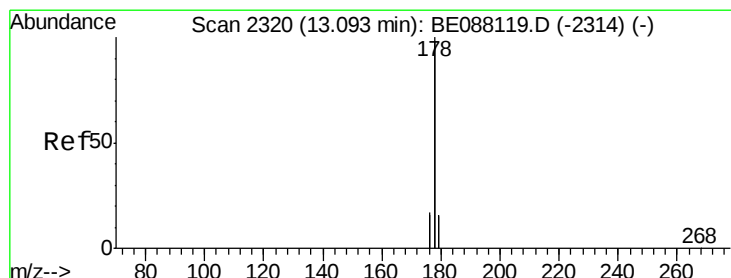
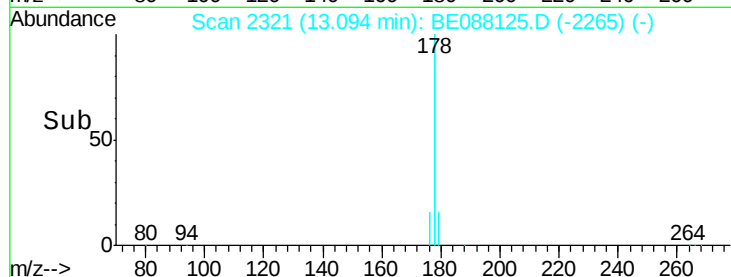
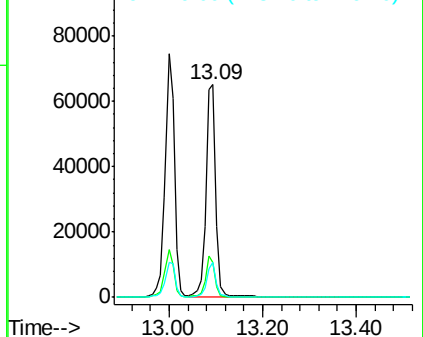
179 15.8 13.5 20.3



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



#14

Anthracene

Concen: 1.01 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

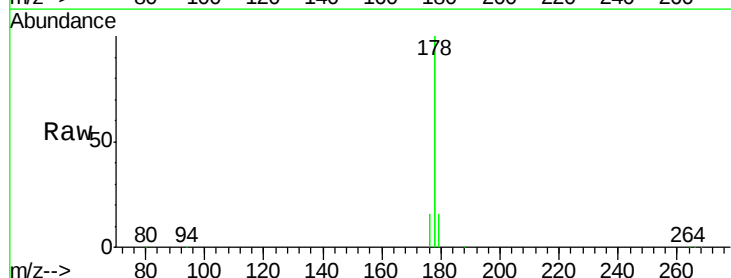
Tgt Ion:178 Resp: 95850

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

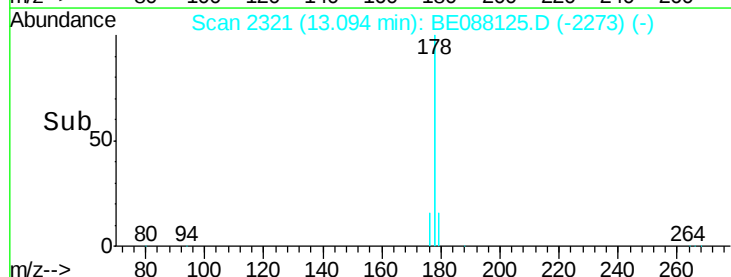
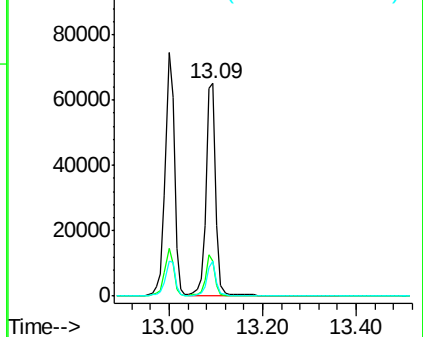
179 15.8 12.5 18.7

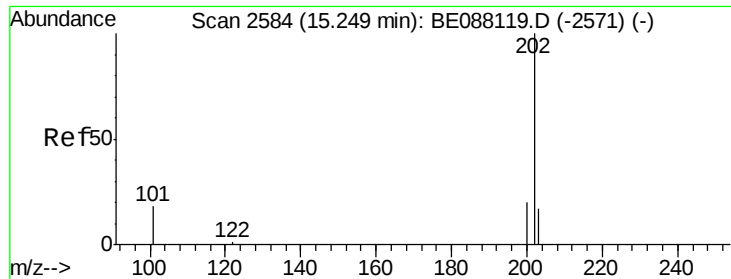


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.97 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

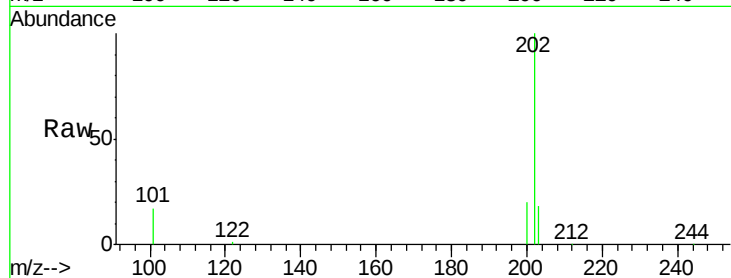
Tgt Ion: 202 Resp: 22495

Ion Ratio Lower Upper

202 100

101 18.7 14.8 22.2

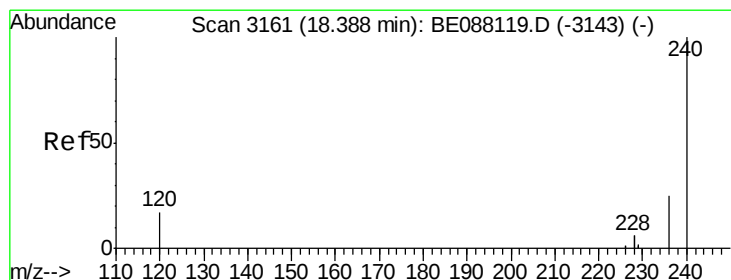
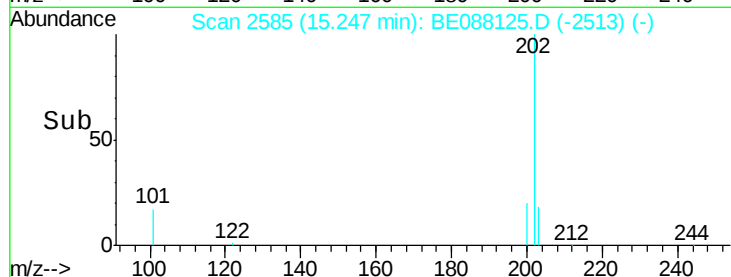
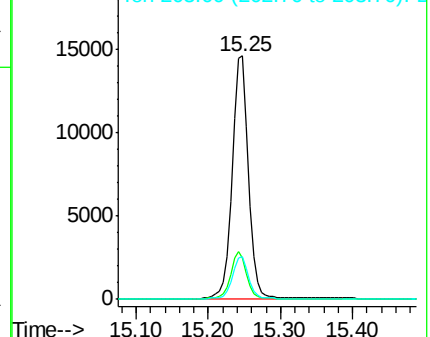
203 17.2 13.5 20.3



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



#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.38 min Scan# 3161

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

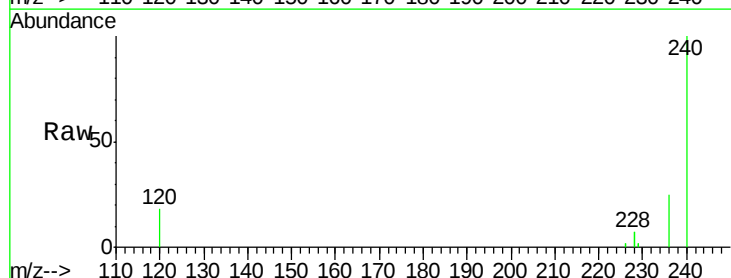
Tgt Ion: 240 Resp: 89341

Ion Ratio Lower Upper

240 100

120 17.7 13.9 20.9

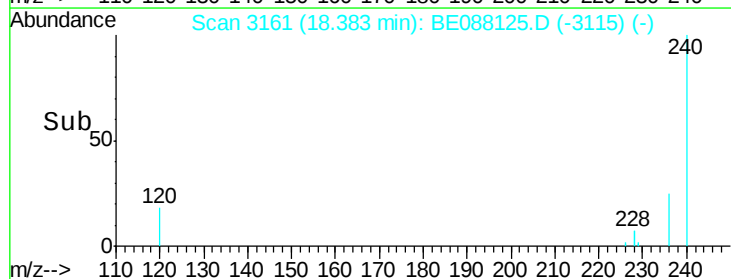
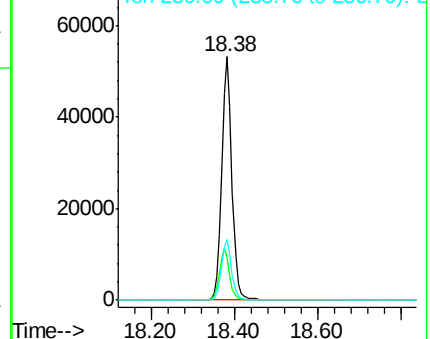
236 25.1 19.9 29.9

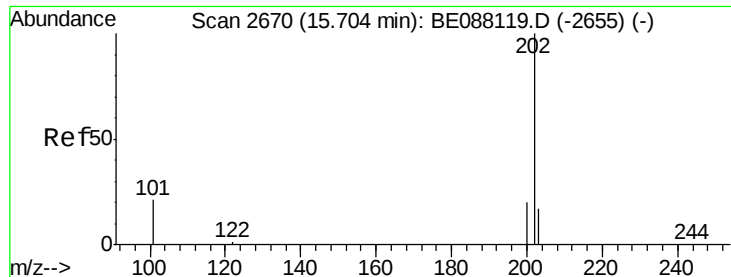


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

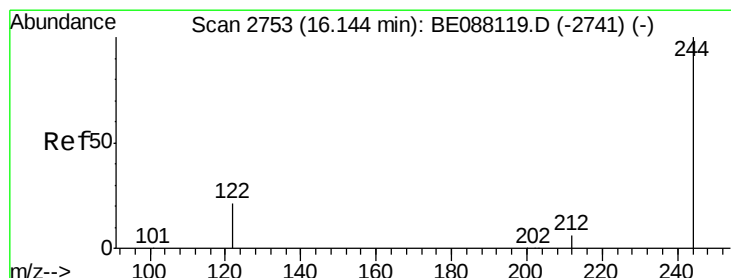
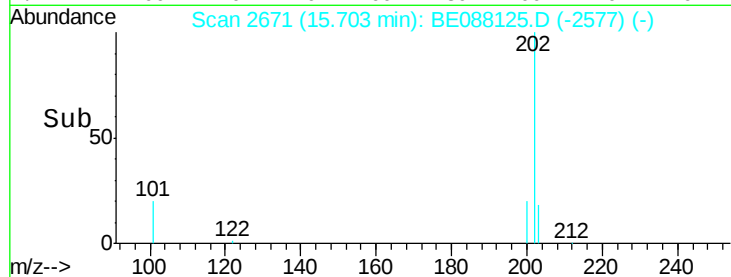
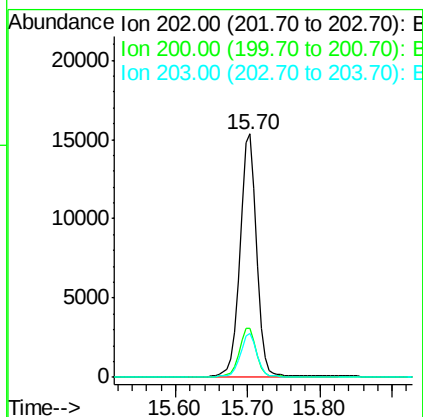
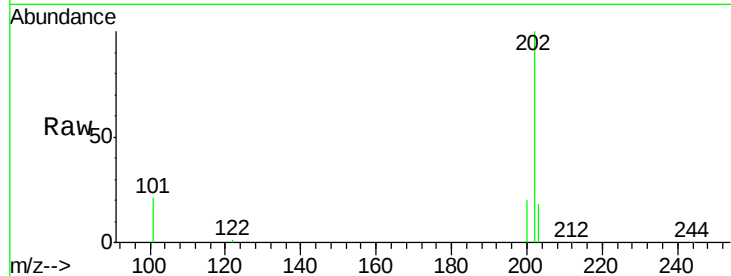




#17
Pyrene
Concen: 1.00 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088125.D
Acq: 21 Oct 2014 4:39

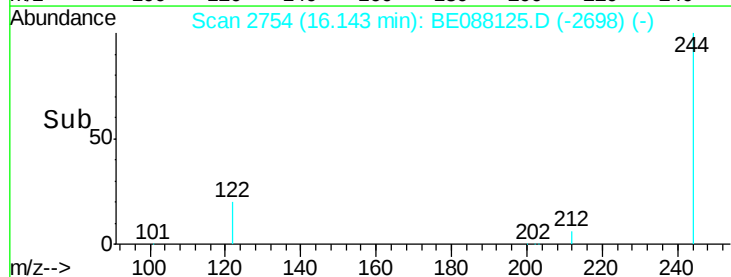
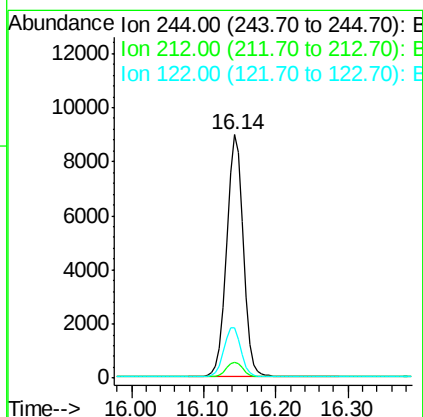
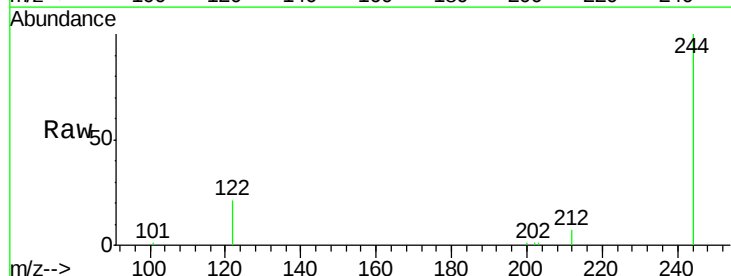
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

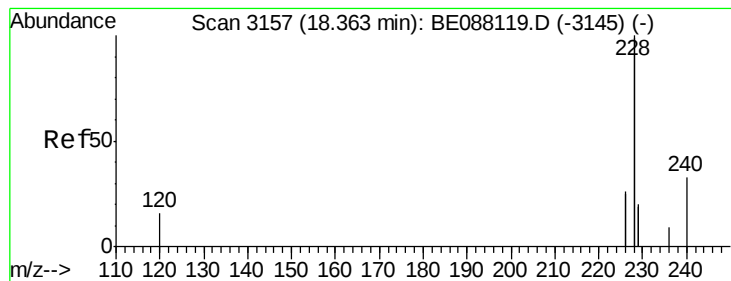
Tgt Ion: 202 Resp: 24201
Ion Ratio Lower Upper
202 100
200 20.0 16.1 24.1
203 17.4 13.9 20.9



#18
Terphenyl-d14
Concen: 1.00 ng
RT: 16.14 min Scan# 2754
Delta R.T. -0.00 min
Lab File: BE088125.D
Acq: 21 Oct 2014 4:39

Tgt Ion: 244 Resp: 14356
Ion Ratio Lower Upper
244 100
212 6.6 5.4 8.0
122 20.9 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.95 ng

RT: 18.36 min Scan# 3157

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

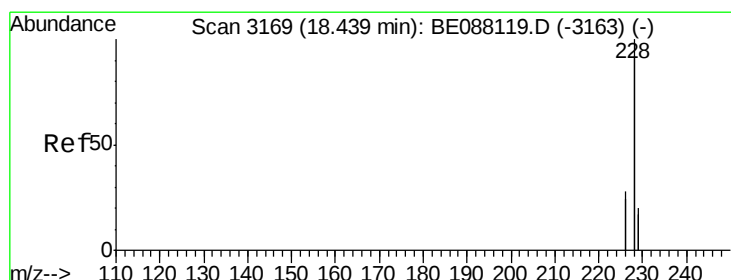
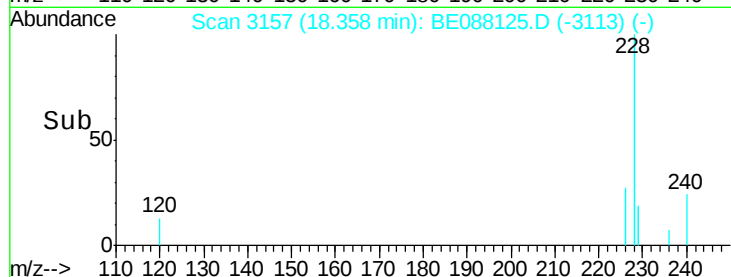
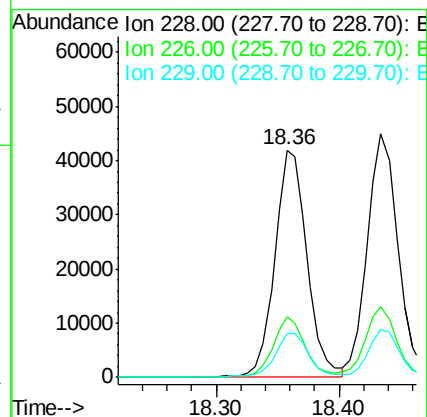
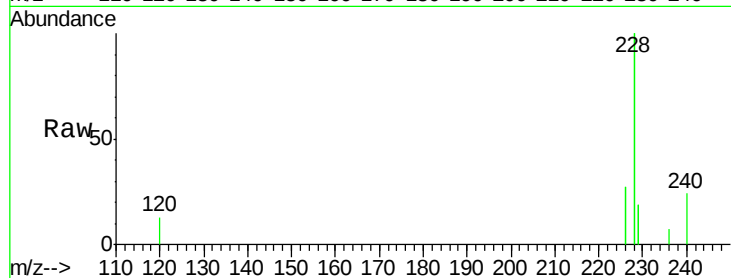
Tgt Ion:228 Resp: 75581

Ion Ratio Lower Upper

228 100

226 26.7 20.8 31.2

229 19.2 15.6 23.4



#20

Chrysene

Concen: 1.00 ng

RT: 18.43 min Scan# 3169

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

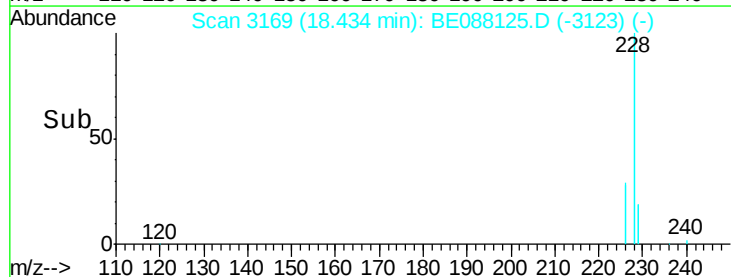
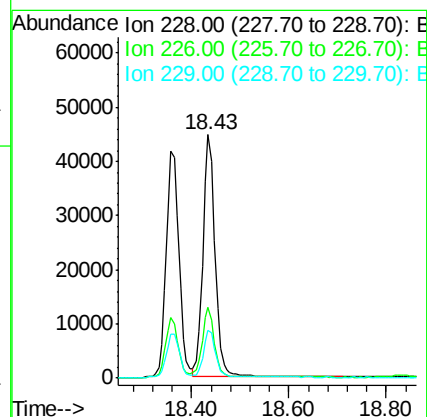
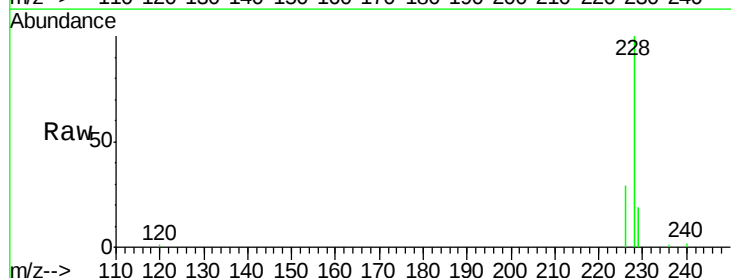
Tgt Ion:228 Resp: 78158

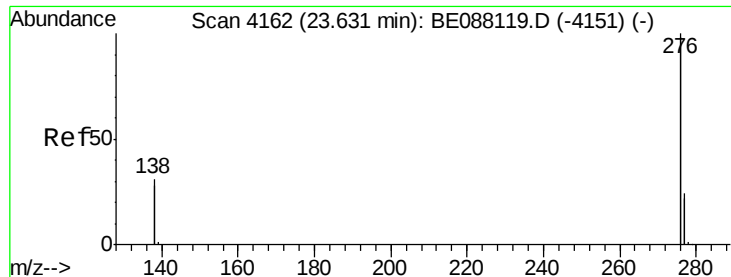
Ion Ratio Lower Upper

228 100

226 29.0 22.7 34.1

229 19.4 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.74 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

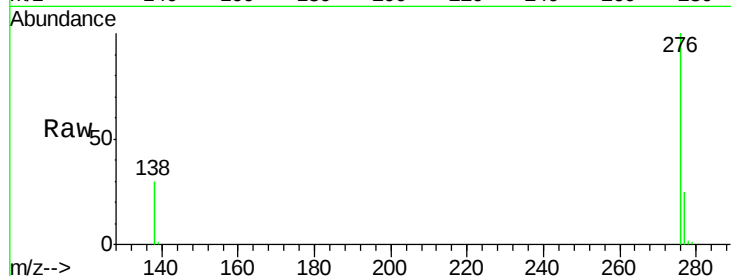
Tgt Ion: 276 Resp: 64467

Ion Ratio Lower Upper

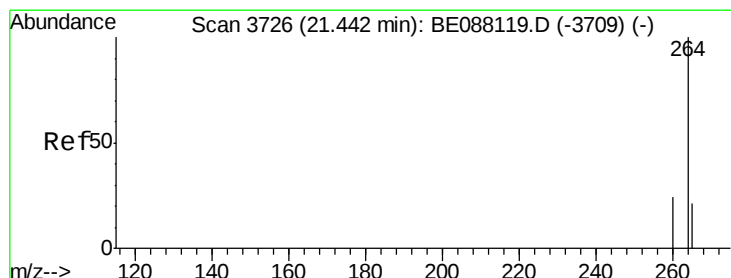
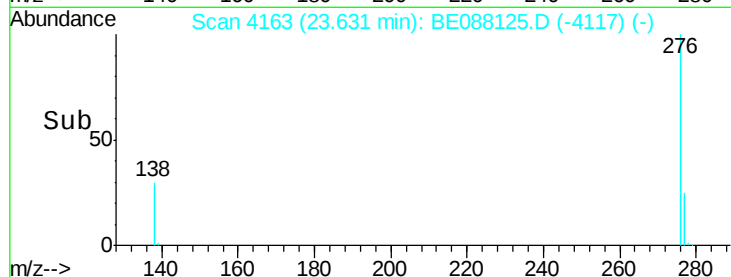
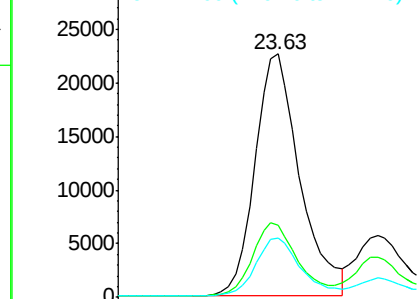
276 100

138 29.3 18.5 27.7#

277 23.7 14.6 21.8#



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.44 min Scan# 3726

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

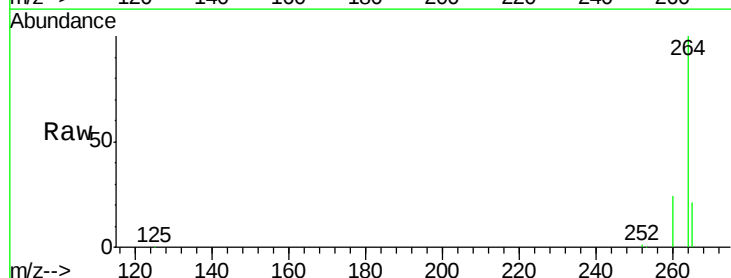
Tgt Ion: 264 Resp: 81489

Ion Ratio Lower Upper

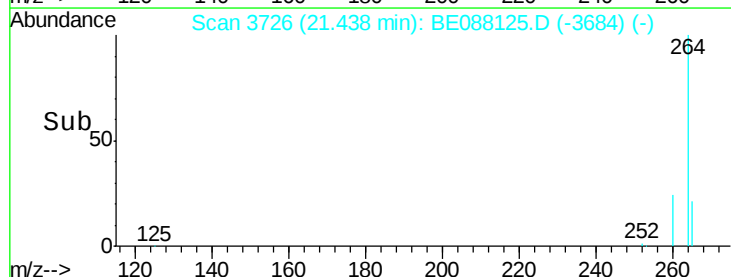
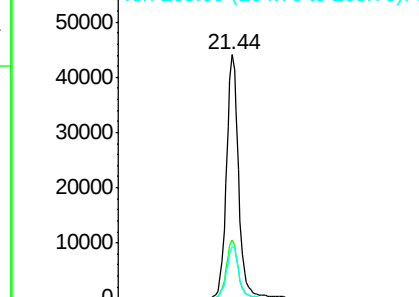
264 100

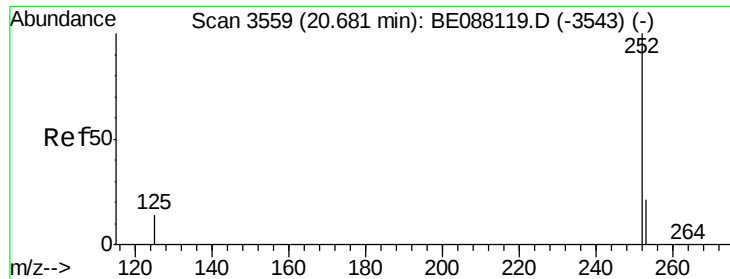
260 23.7 19.0 28.4

265 21.4 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.97 ng

RT: 20.68 min Scan# 3559

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

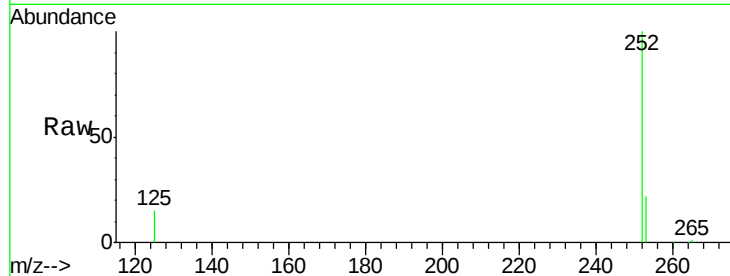
Tgt Ion:252 Resp: 18781

Ion Ratio Lower Upper

252 100

253 22.1 17.4 26.0

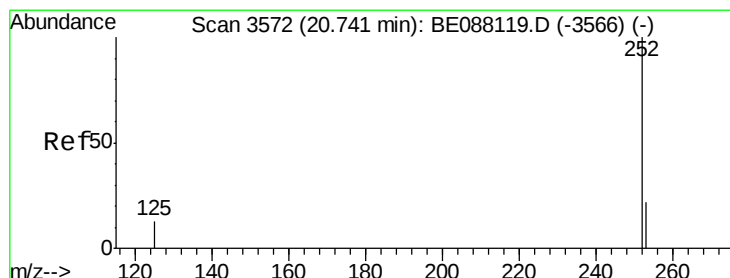
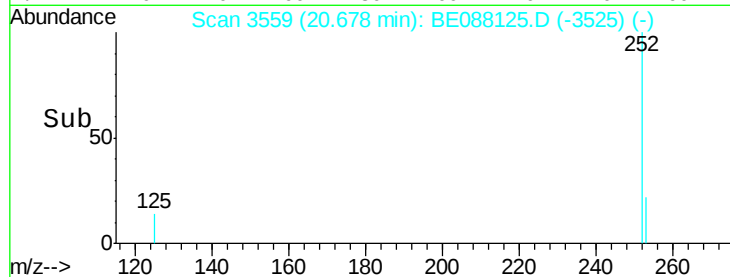
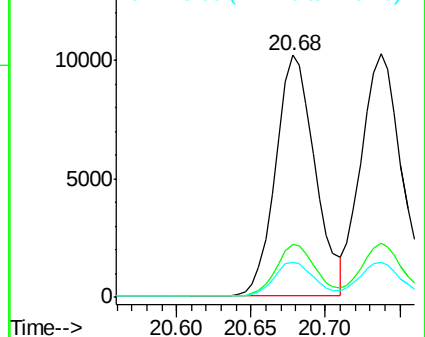
125 14.7 11.8 17.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.99 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

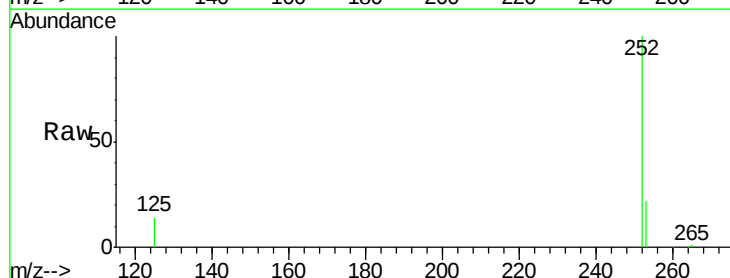
Tgt Ion:252 Resp: 20656

Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

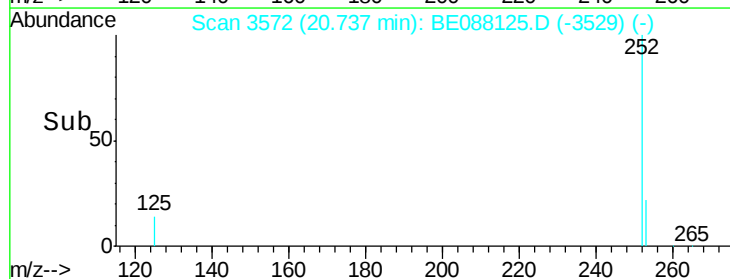
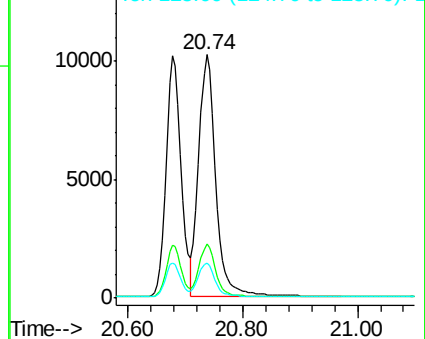
125 14.4 11.5 17.3



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





#25

Benzo(a)pyrene

Concen: 0.97 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

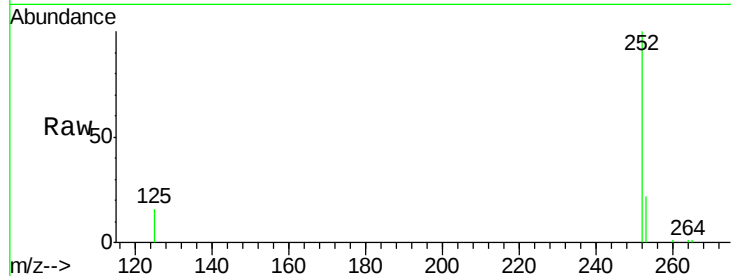
Tgt Ion: 252 Resp: 17302

Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

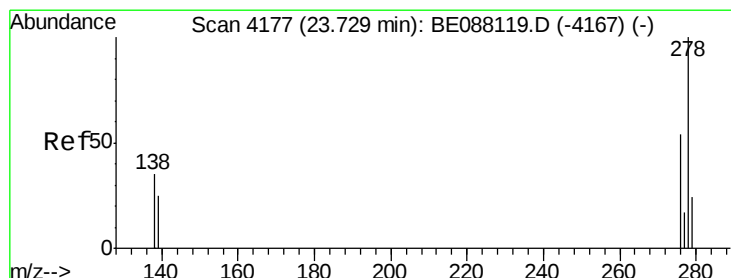
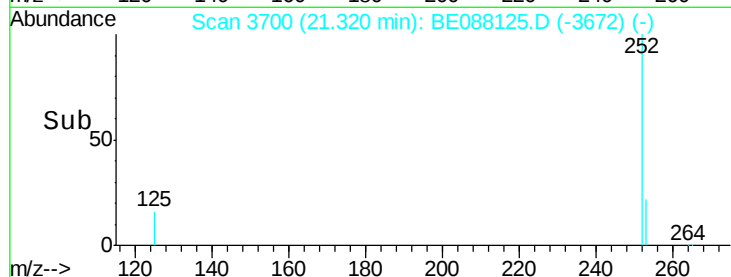
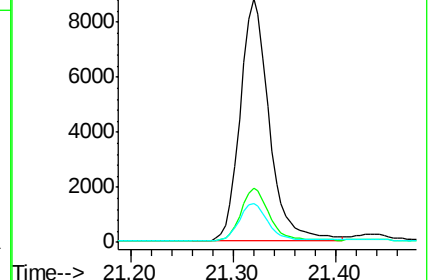
125 16.1 13.0 19.6



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



#26

Dibenzo(a,h)anthracene

Concen: 0.94 ng

RT: 23.73 min Scan# 4178

Delta R.T. -0.00 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

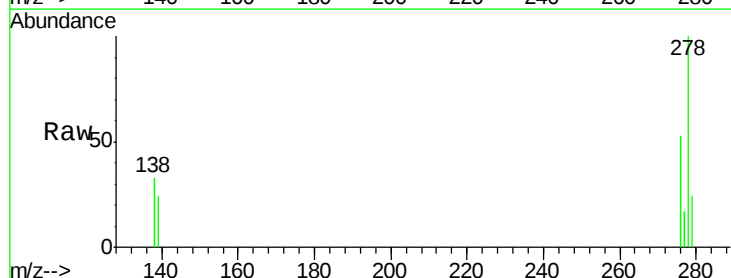
Tgt Ion: 278 Resp: 16522

Ion Ratio Lower Upper

278 100

139 24.3 20.9 31.3

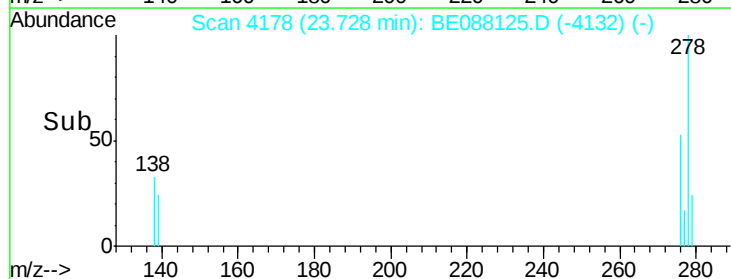
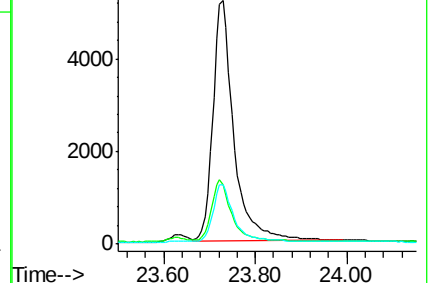
279 24.4 19.8 29.8

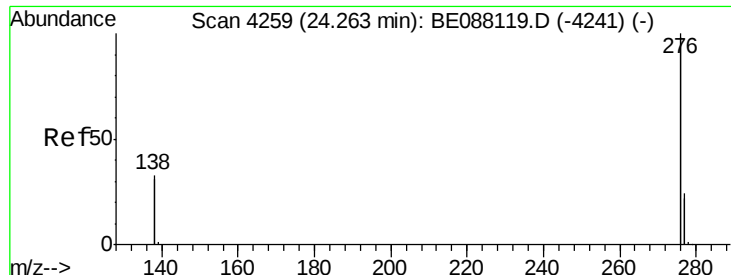


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.95 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.01 min

Lab File: BE088125.D

Acq: 21 Oct 2014 4:39

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

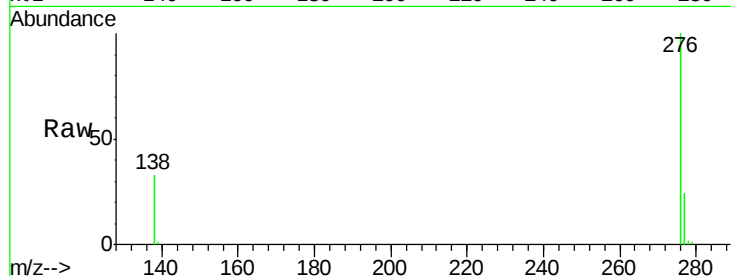
Tgt Ion: 276 Resp: 73582

Ion Ratio Lower Upper

276 100

277 23.9 19.2 28.8

138 33.3 26.6 40.0



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

