

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088121.D
 Acq On : 20 Oct 2014 22:56
 Operator : TP/JJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Quant Time: Oct 21 01:57:48 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 01:52:35 2014
 Response via : Initial Calibration

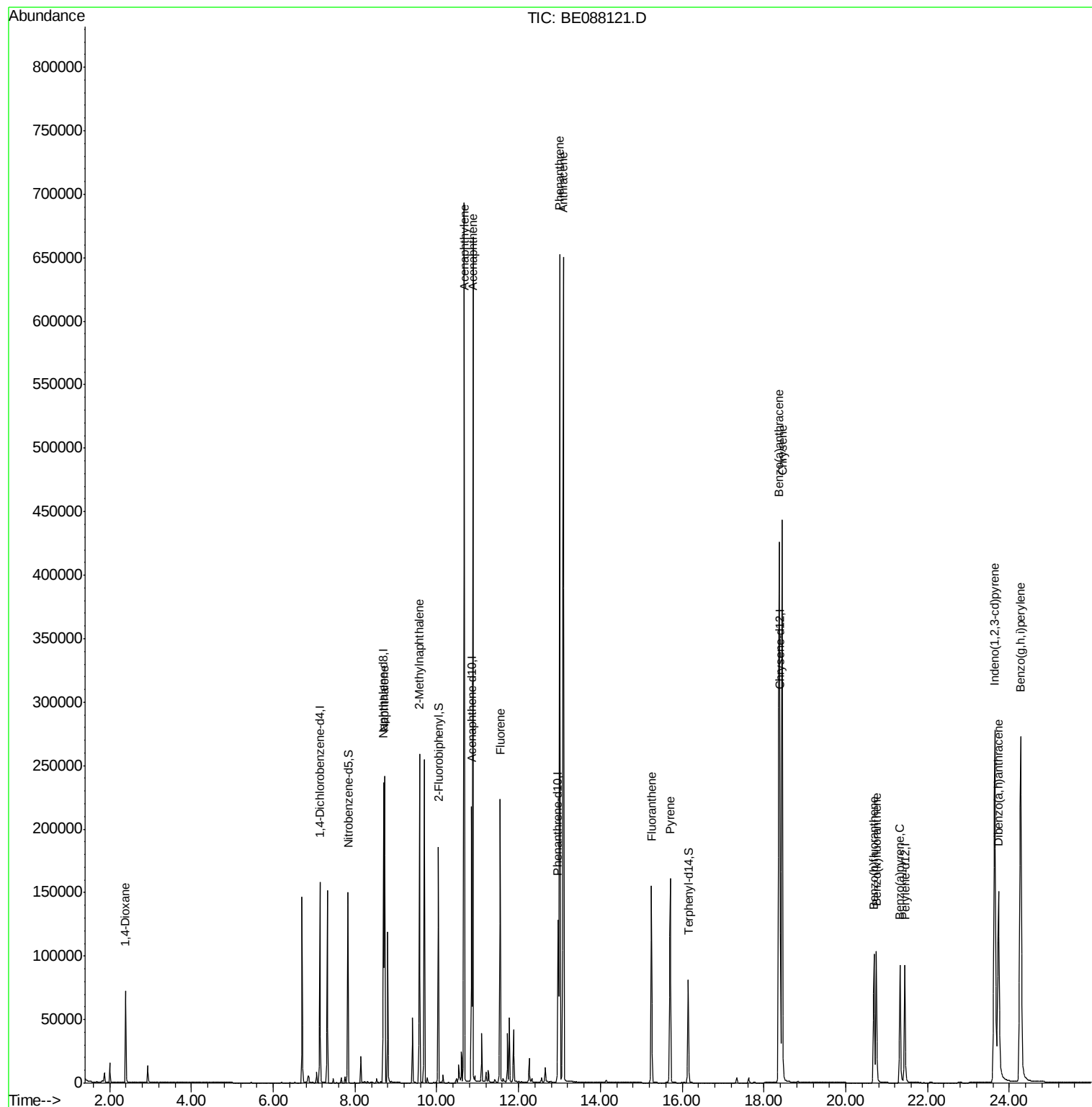
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	52398	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	197925	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	88814	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	166438	5.00	ng	0.00
16) Chrysene-d12	18.39	240	123662	5.00	ng	0.00
22) Perylene-d12	21.45	264	119048	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	75107	6.27	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	121100	4.94	ng	0.00
18) Terphenyl-d14	16.15	244	100251	5.22	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.39	88	37996	5.07	ng	99
5) Naphthalene	8.72	128	197220	4.91	ng	99
6) 2-Methylnaphthalene	9.58	142	121936	5.16	ng	96
9) Acenaphthylene	10.67	152	687784	5.46	ng	100
10) Acenaphthene	10.88	154	99716	4.83	ng	99
11) Fluorene	11.55	166	112489	5.36	ng	99
13) Phenanthrene	13.01	178	628228	4.05	ng	95
14) Anthracene	13.09	178	643715	4.75	ng	99
15) Fluoranthene	15.25	202	151246	4.61	ng	99
17) Pyrene	15.71	202	161337	5.07	ng	100
19) Benzo(a)anthracene	18.37	228	529631	5.60	ng	99
20) Chrysene	18.45	228	514686	4.46	ng	99
21) Indeno(1,2,3-cd)pyrene	23.64	276	491144	5.22	ng	# 87
23) Benzo(b)fluoranthene	20.69	252	134637	6.04	ng	99
24) Benzo(k)fluoranthene	20.75	252	146972	4.73	ng	99
25) Benzo(a)pyrene	21.33	252	130326	6.77	ng	99
26) Dibenzo(a,h)anthracene	23.73	278	126727	6.22	ng	98
27) Benzo(g,h,i)perylene	24.28	276	546610	5.57	ng	98

(#) = 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# 1258

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

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BNA_E

ClientSampleId :

SSTDIC005

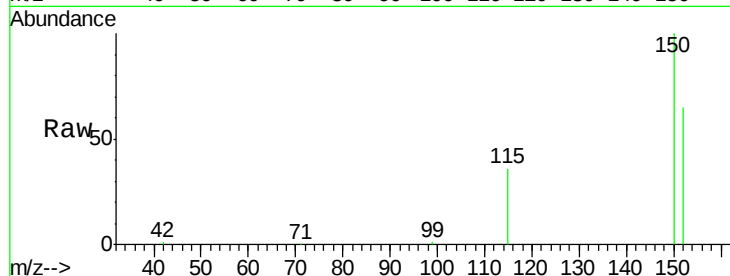
Tgt Ion:152 Resp: 52398

Ion Ratio Lower Upper

152 100

150 153.1 129.2 193.8

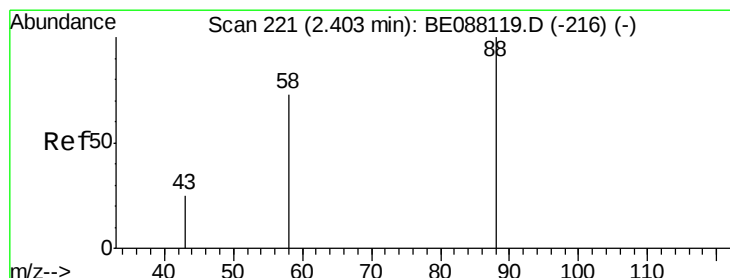
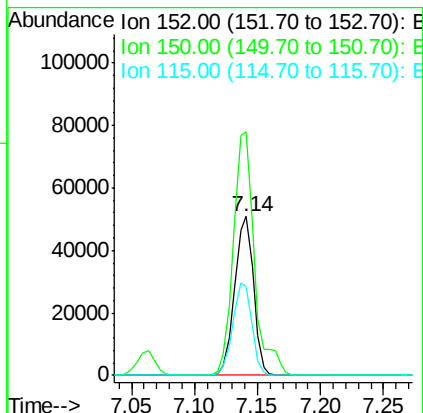
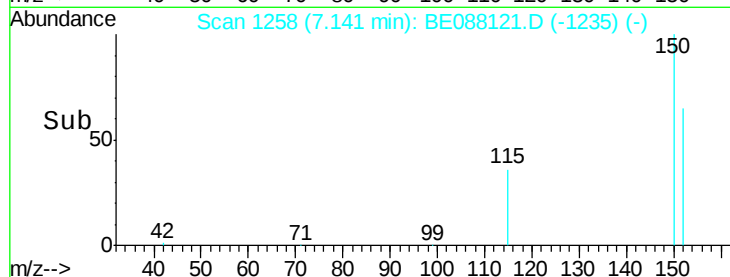
115 55.6 49.3 73.9



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: 5.07 ng

RT: 2.39 min Scan# 218

Delta R.T. -0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

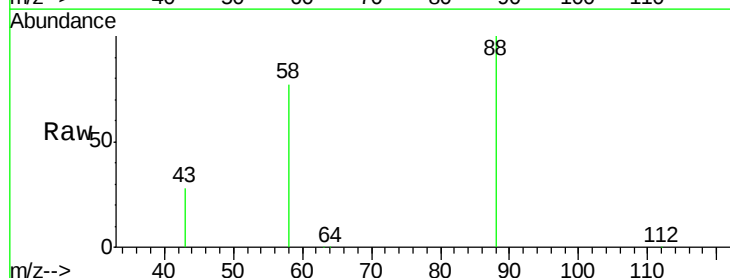
Tgt Ion: 88 Resp: 37996

Ion Ratio Lower Upper

88 100

58 73.8 59.5 89.3

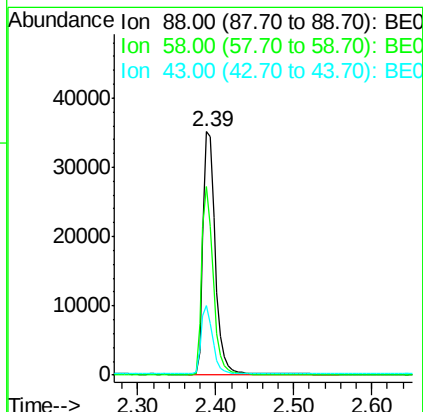
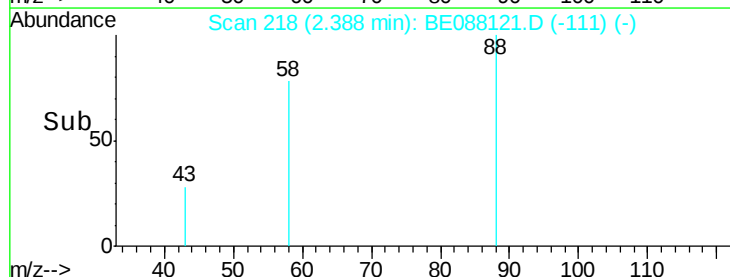
43 27.1 21.2 31.8

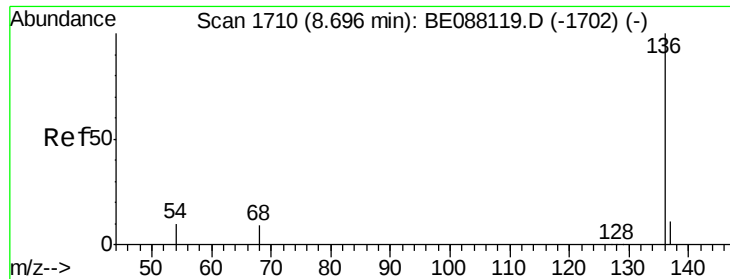


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

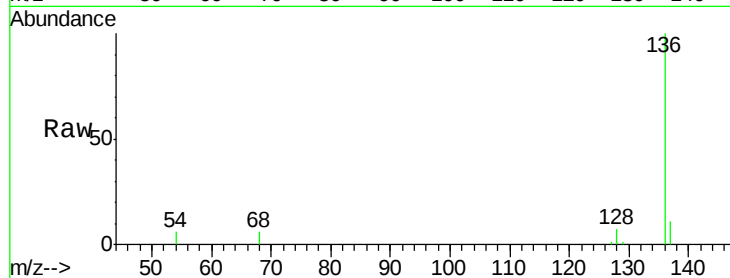
Tgt Ion: 136 Resp: 197925

Ion Ratio Lower Upper

136 100

137 11.4 8.6 12.8

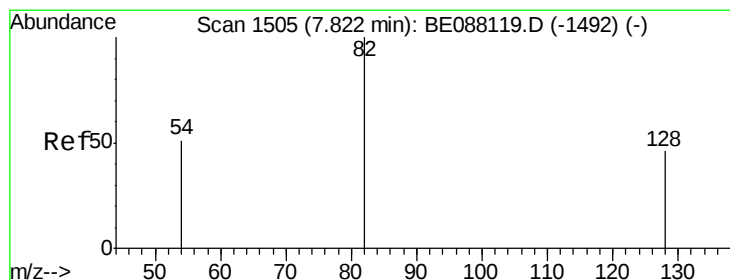
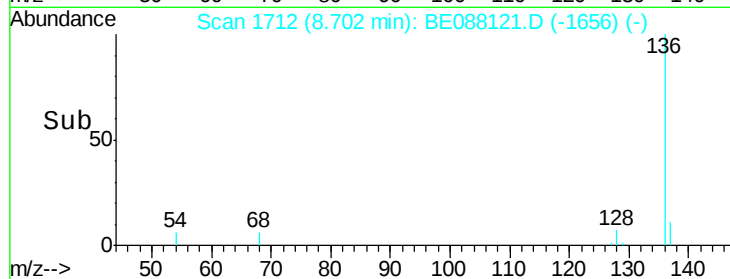
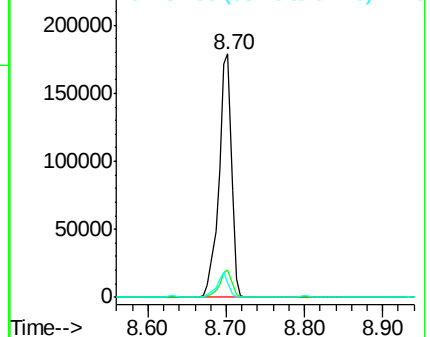
54 5.7 7.7 11.5#



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: 6.27 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

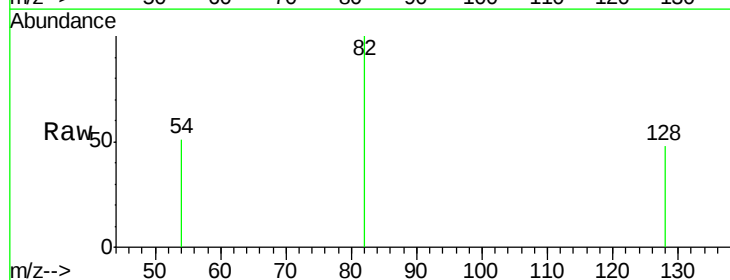
Tgt Ion: 82 Resp: 75107

Ion Ratio Lower Upper

82 100

128 48.2 37.1 55.7

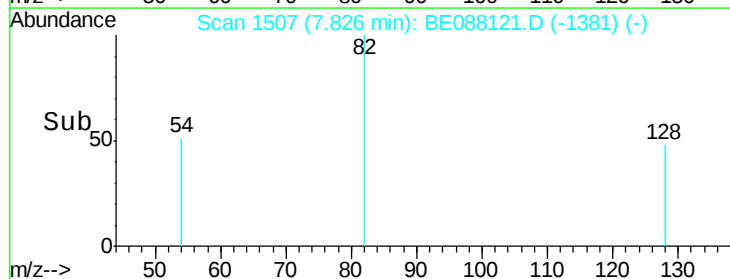
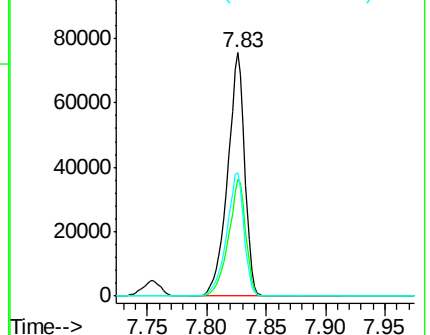
54 50.7 41.1 61.7



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: 4.91 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

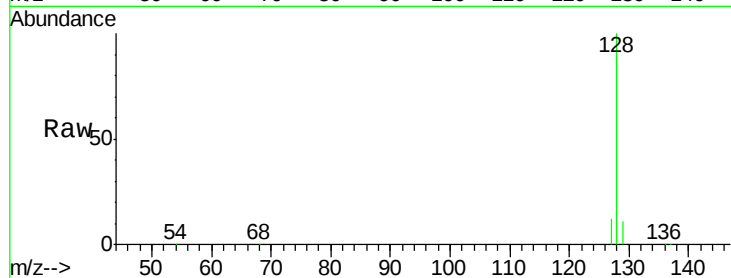
Tgt Ion:128 Resp: 197220

Ion Ratio Lower Upper

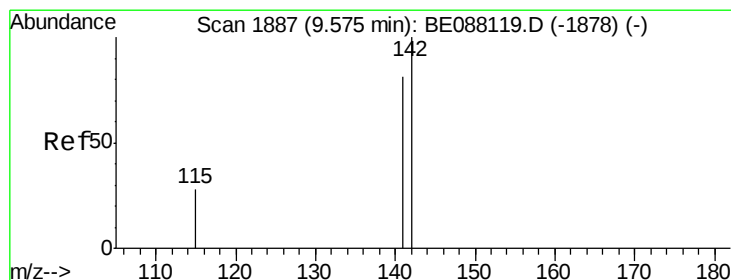
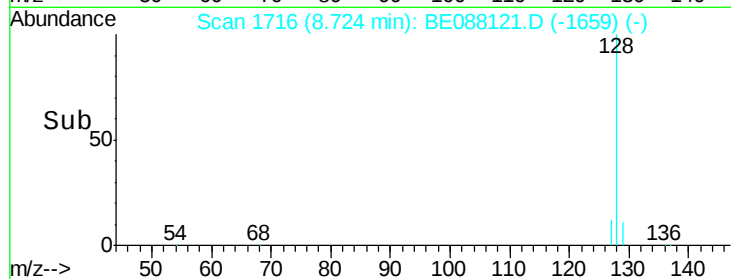
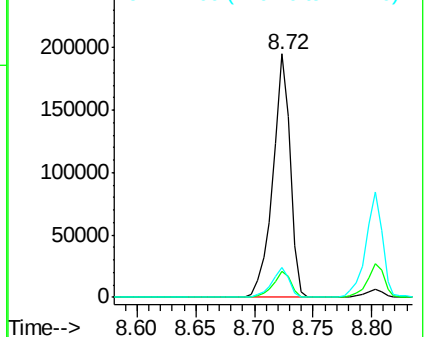
128 100

129 10.9 8.9 13.3

127 12.5 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: 5.16 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

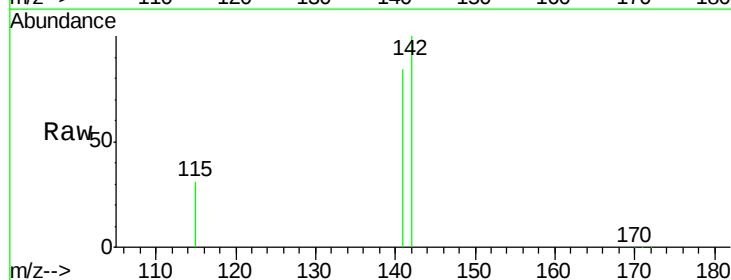
Tgt Ion:142 Resp: 121936

Ion Ratio Lower Upper

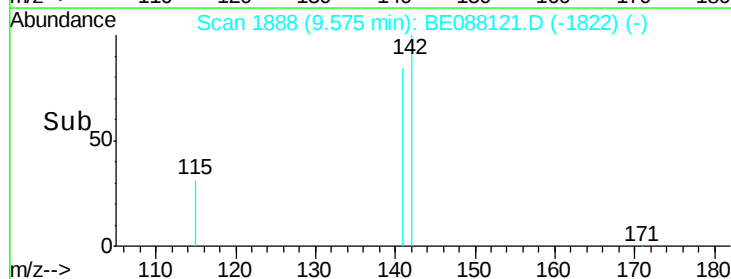
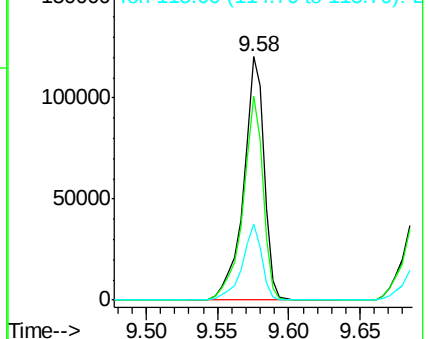
142 100

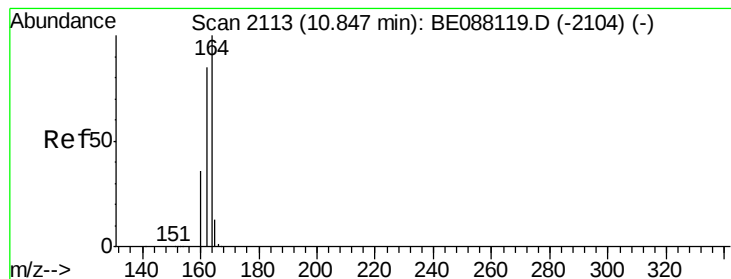
141 83.6 64.6 97.0

115 31.2 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: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

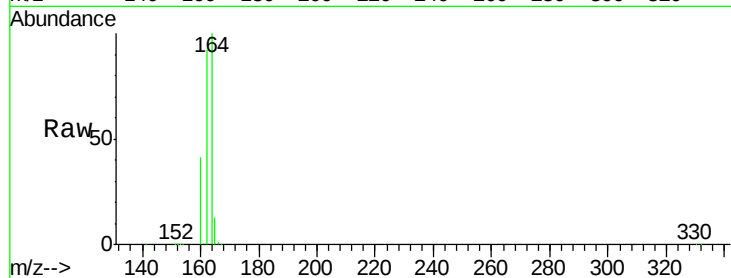
Tgt Ion:164 Resp: 88814

Ion Ratio Lower Upper

164 100

162 91.5 68.3 102.5

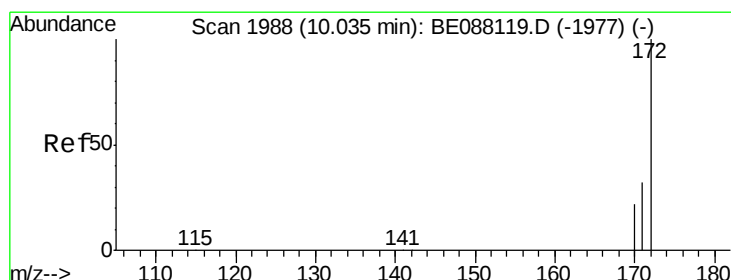
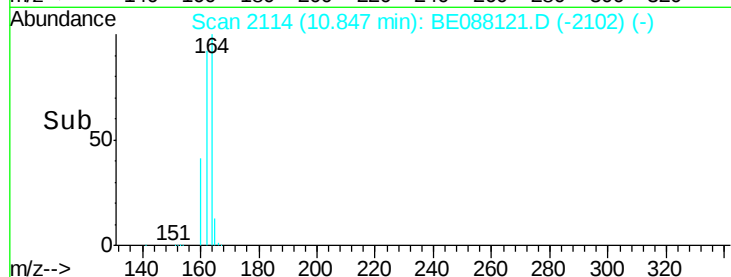
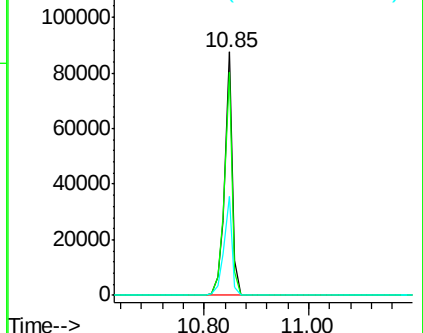
160 40.7 28.7 43.1



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: 4.94 ng

RT: 10.04 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

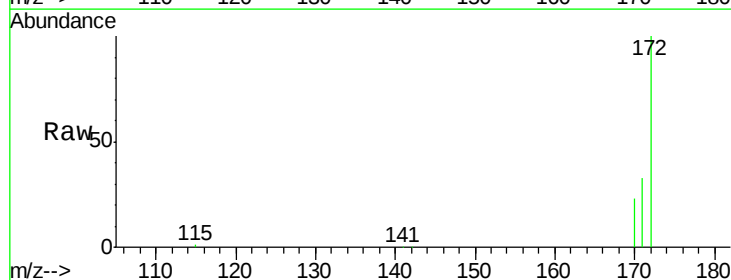
Tgt Ion:172 Resp: 121100

Ion Ratio Lower Upper

172 100

171 33.2 25.4 38.2

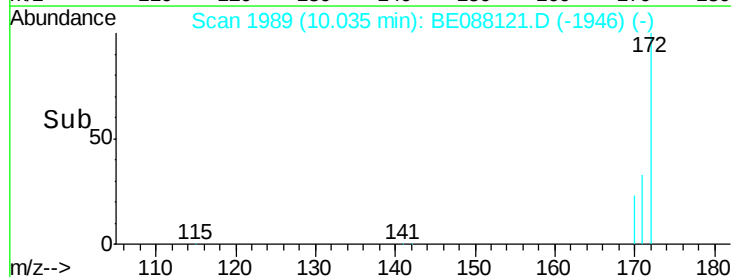
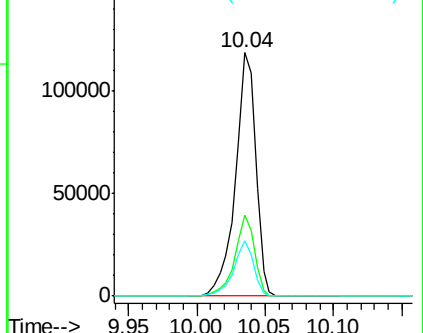
170 23.0 17.4 26.2

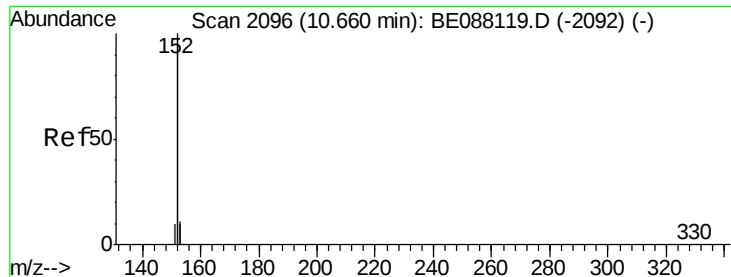


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 5.46 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

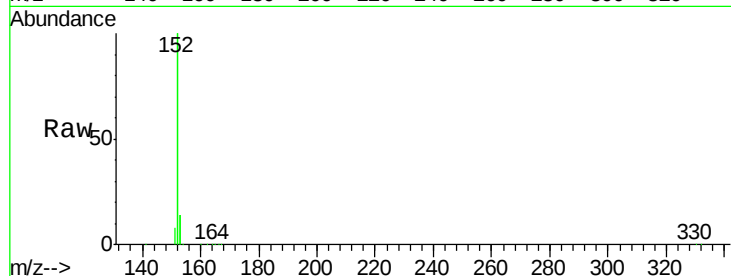
Tgt Ion:152 Resp: 687784

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

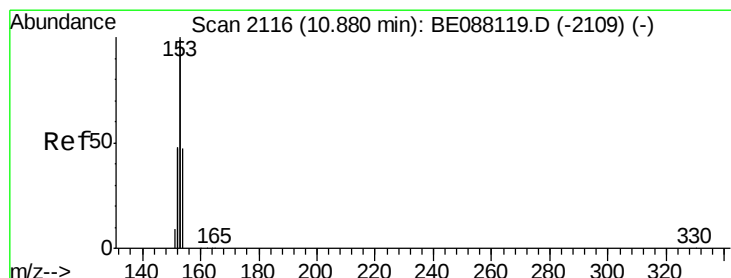
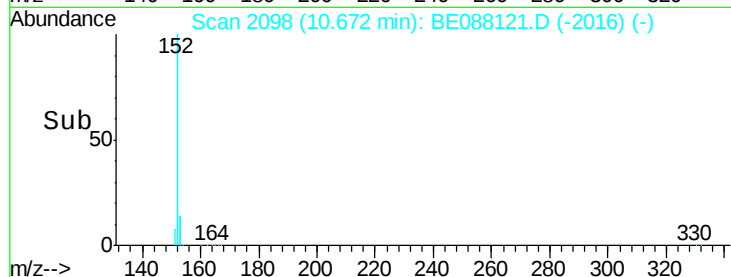
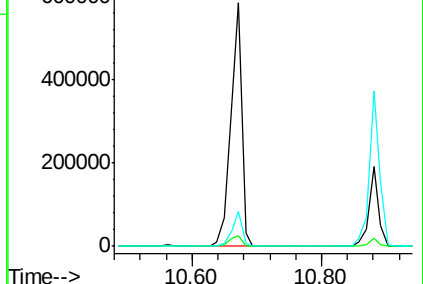
153 13.1 10.4 15.6



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: 4.83 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

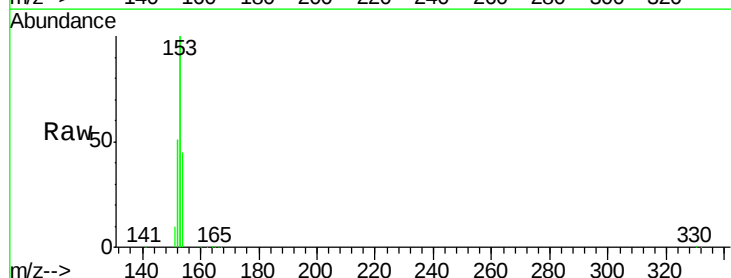
Tgt Ion:154 Resp: 99716

Ion Ratio Lower Upper

154 100

153 408.5 327.8 491.6

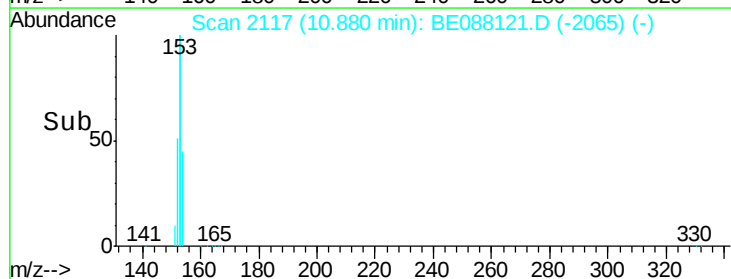
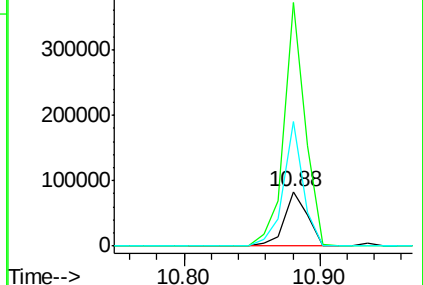
152 195.2 157.6 236.4



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: 5.36 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

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ClientSampleId :

SSTDIC005

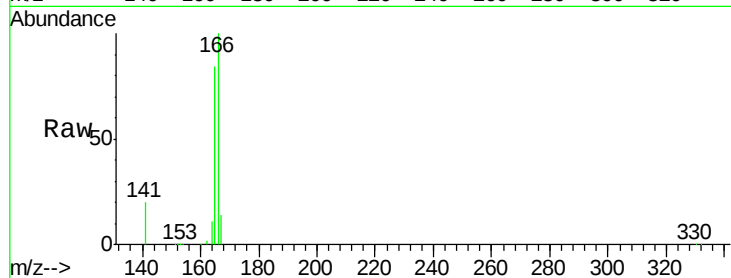
Tgt Ion:166 Resp: 112489

Ion Ratio Lower Upper

166 100

165 88.2 71.4 107.2

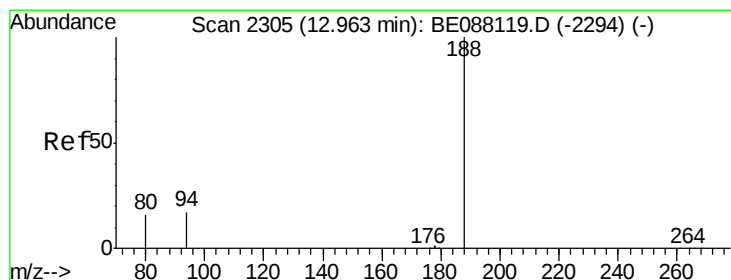
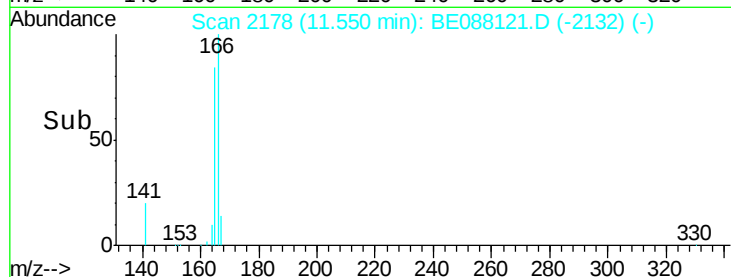
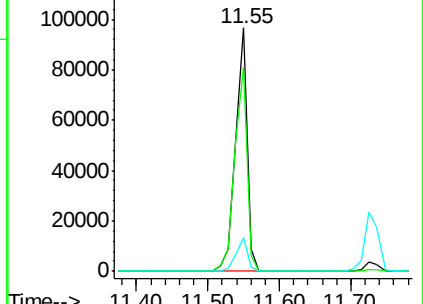
167 13.5 10.6 16.0



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

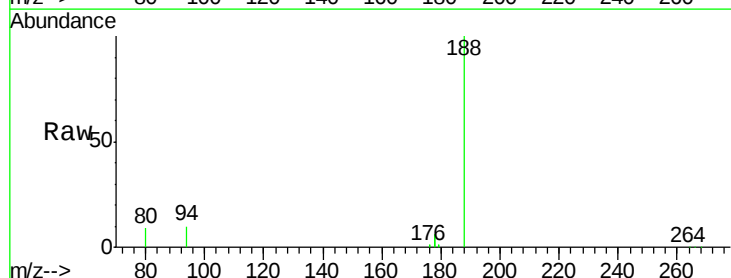
Tgt Ion:188 Resp: 166438

Ion Ratio Lower Upper

188 100

94 10.3 13.9 20.9#

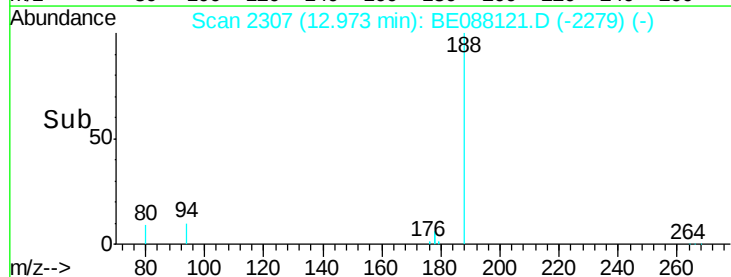
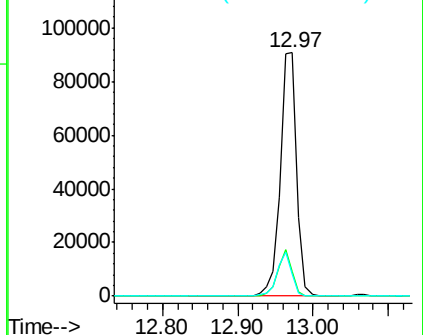
80 8.9 12.9 19.3#

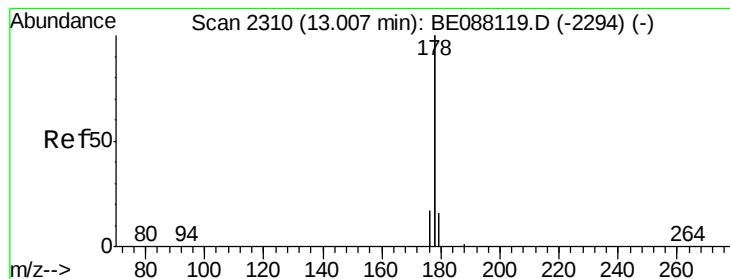


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 4.05 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

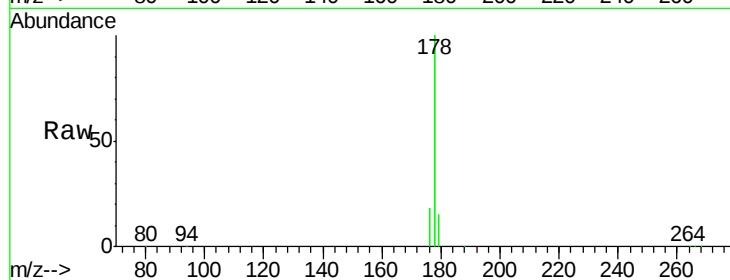
Tgt Ion:178 Resp: 628228

Ion Ratio Lower Upper

178 100

176 18.6 12.5 18.7

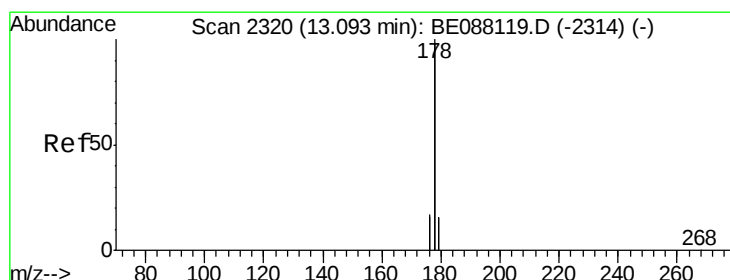
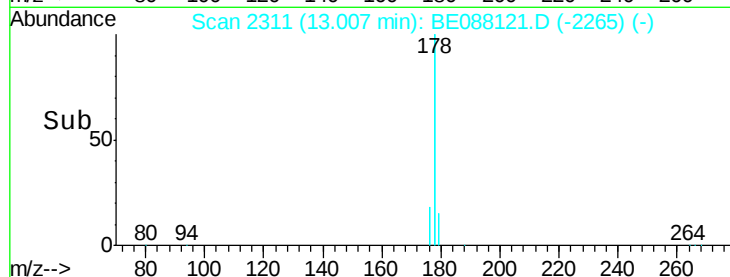
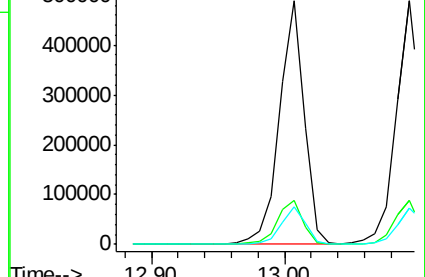
179 15.3 13.5 20.3



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: 4.75 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

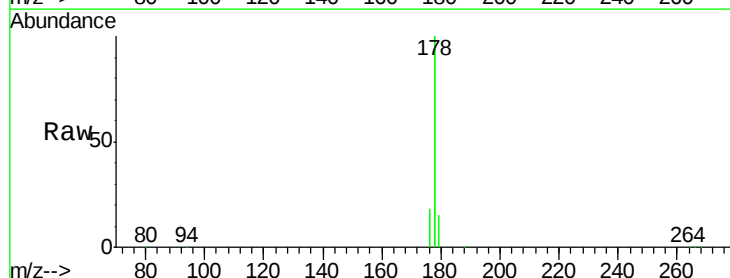
Tgt Ion:178 Resp: 643715

Ion Ratio Lower Upper

178 100

176 17.9 14.6 21.8

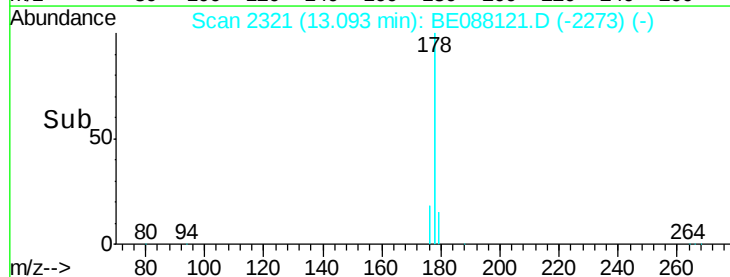
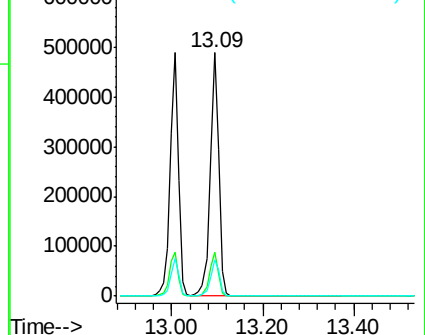
179 15.2 12.5 18.7

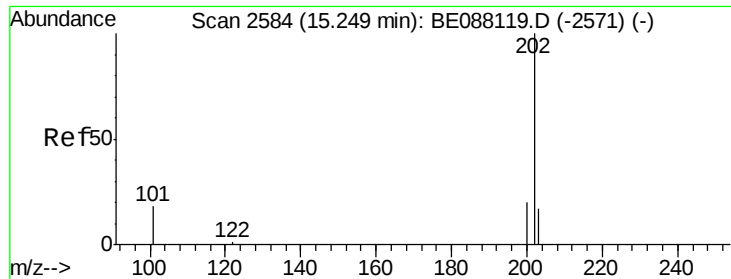


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

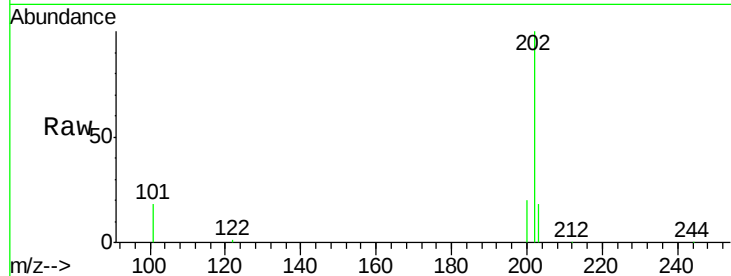




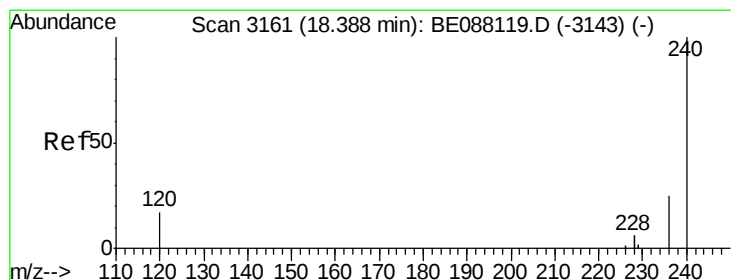
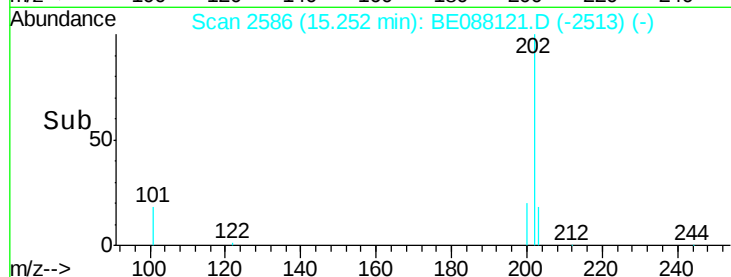
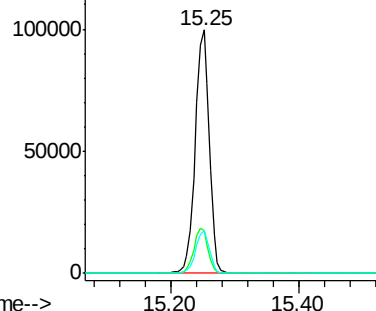
#15
 Fluoranthene
 Concen: 4.61 ng
 RT: 15.25 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: BE088121.D
 Acq: 20 Oct 2014 22:56

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tgt Ion: 202 Resp: 151246
 Ion Ratio Lower Upper
 202 100
 101 18.6 14.8 22.2
 203 17.4 13.5 20.3

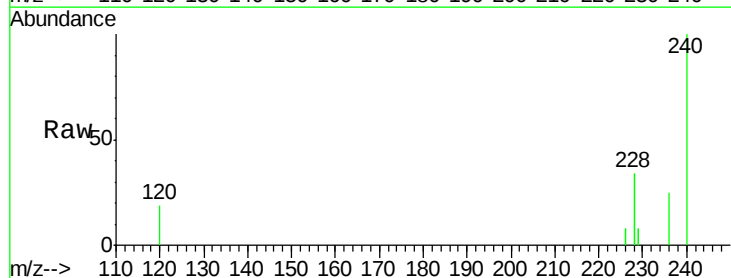


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

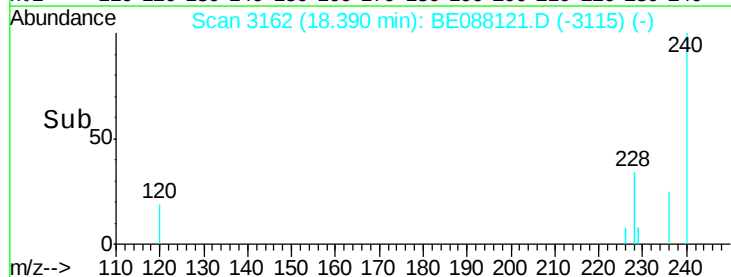
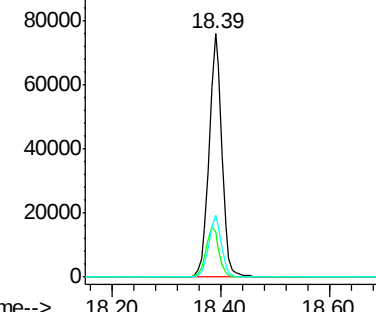


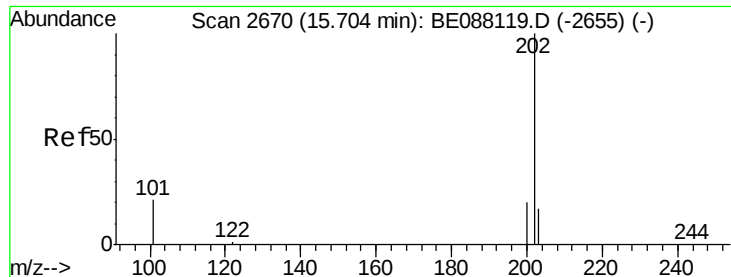
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3162
 Delta R.T. 0.00 min
 Lab File: BE088121.D
 Acq: 20 Oct 2014 22:56

Tgt Ion: 240 Resp: 123662
 Ion Ratio Lower Upper
 240 100
 120 18.6 13.9 20.9
 236 25.3 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

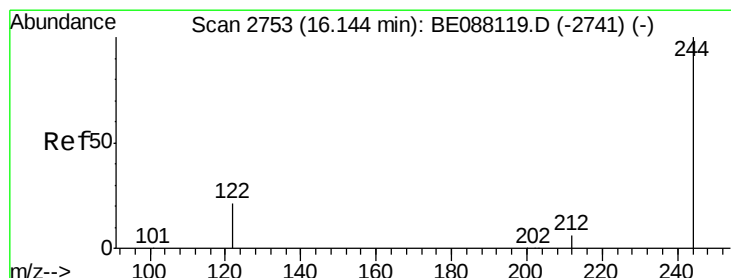
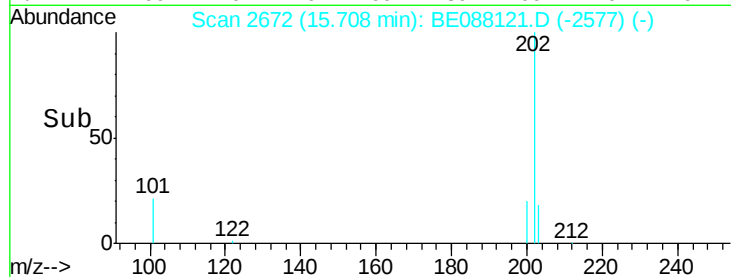
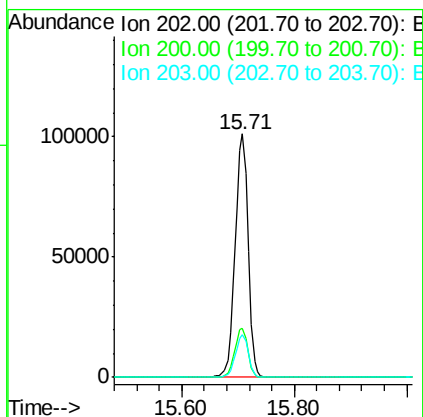
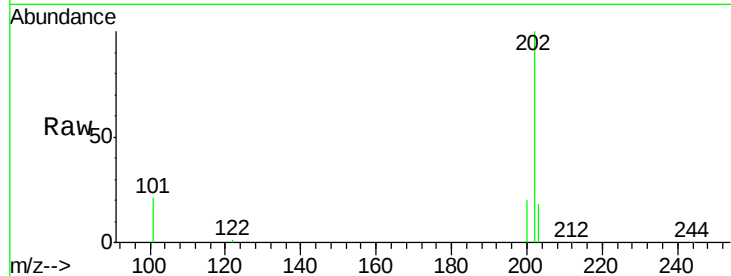




#17
 Pyrene
 Concen: 5.07 ng
 RT: 15.71 min Scan# 2672
 Delta R.T. 0.00 min
 Lab File: BE088121.D
 Acq: 20 Oct 2014 22:56

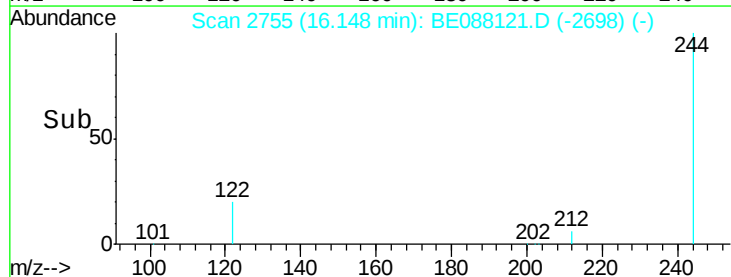
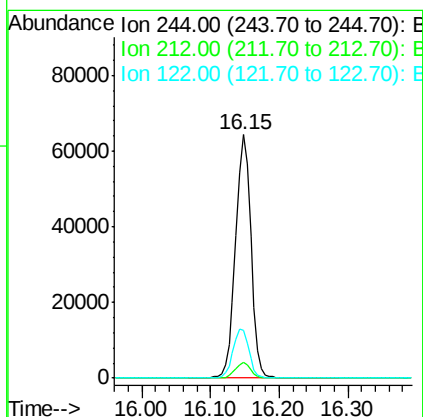
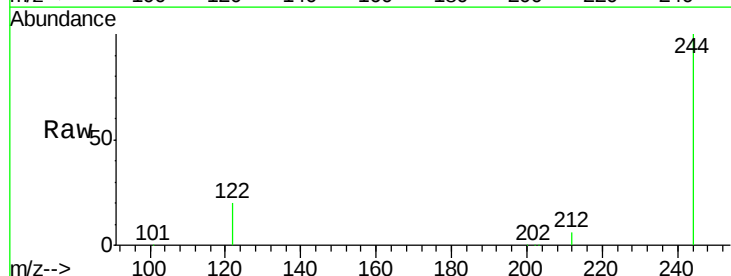
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.4	13.9	20.9



#18
 Terphenyl-d14
 Concen: 5.22 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088121.D
 Acq: 20 Oct 2014 22:56

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	19.6	17.5	26.3





#19

Benzo(a)anthracene

Concen: 5.60 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

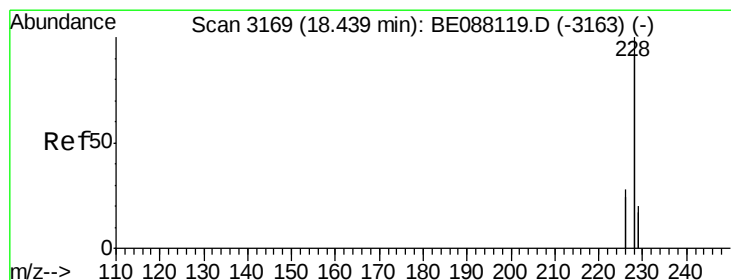
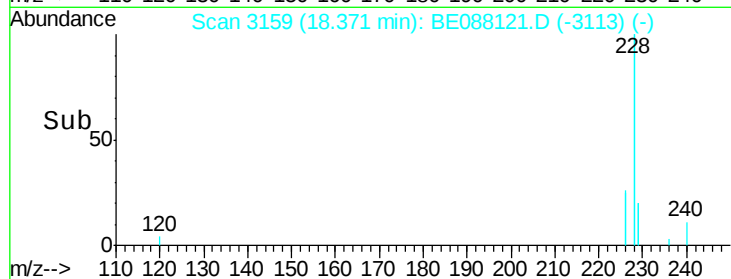
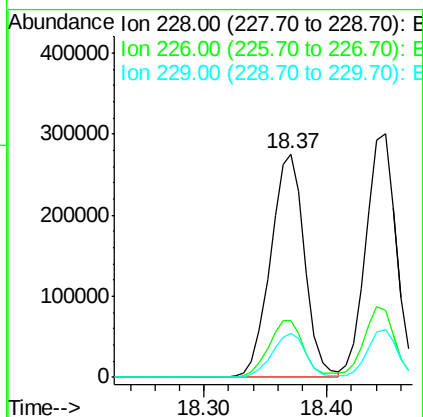
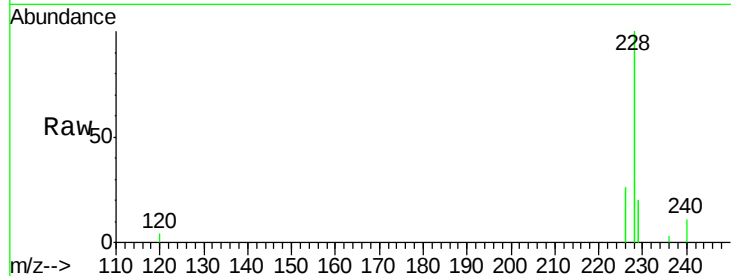
Tgt Ion:228 Resp: 529631

Ion Ratio Lower Upper

228 100

226 25.6 20.8 31.2

229 19.8 15.6 23.4



#20

Chrysene

Concen: 4.46 ng

RT: 18.45 min Scan# 3171

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

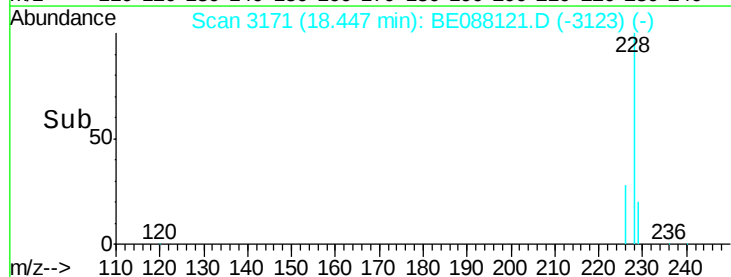
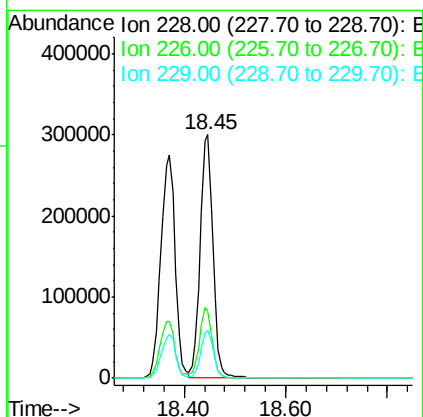
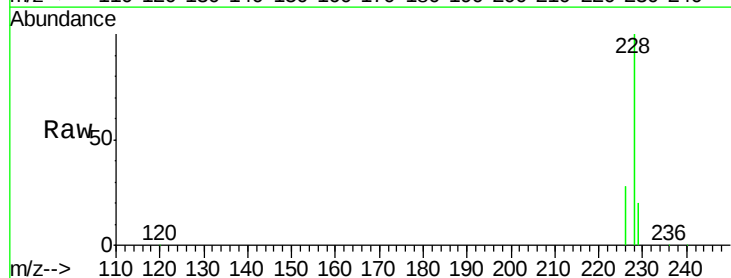
Tgt Ion:228 Resp: 514686

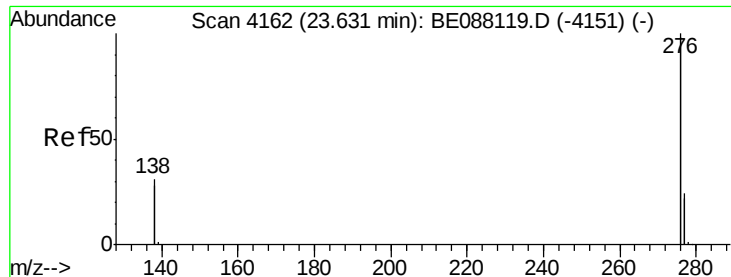
Ion Ratio Lower Upper

228 100

226 27.6 22.7 34.1

229 19.7 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 5.22 ng

RT: 23.64 min Scan# 4165

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

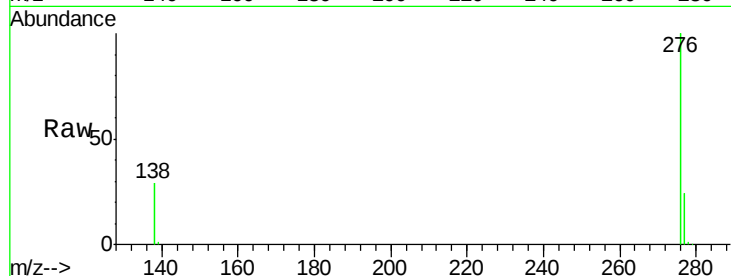
Tgt Ion: 276 Resp: 491144

Ion Ratio Lower Upper

276 100

138 29.5 18.5 27.7#

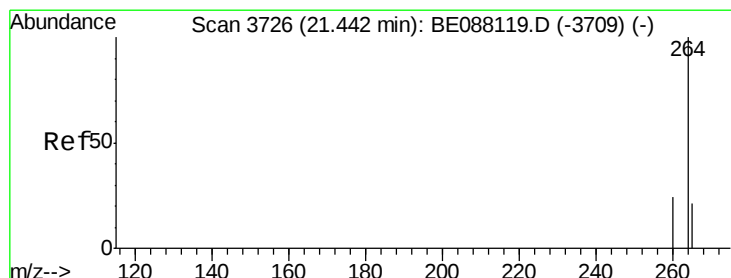
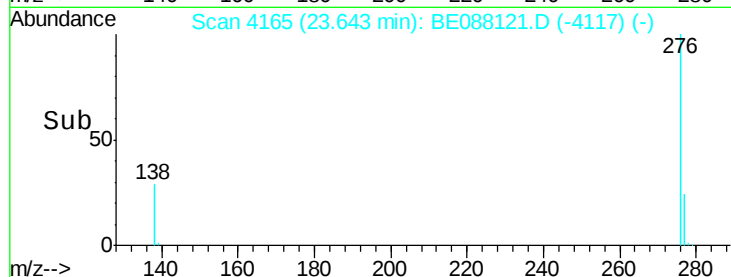
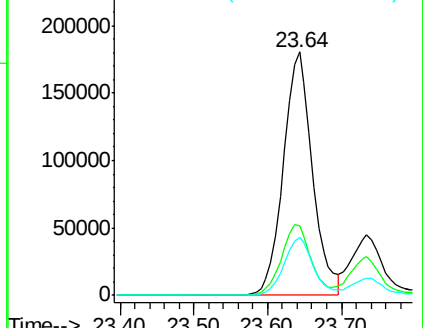
277 23.8 14.6 21.8#



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: 21.45 min Scan# 3728

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

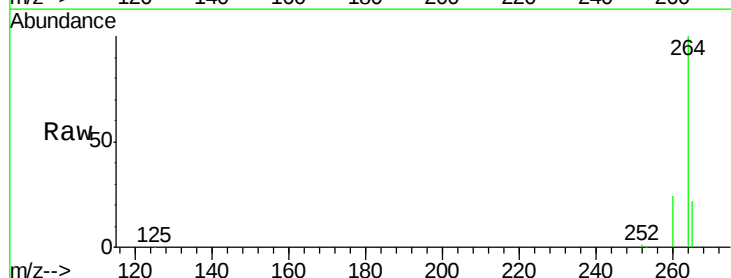
Tgt Ion: 264 Resp: 119048

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

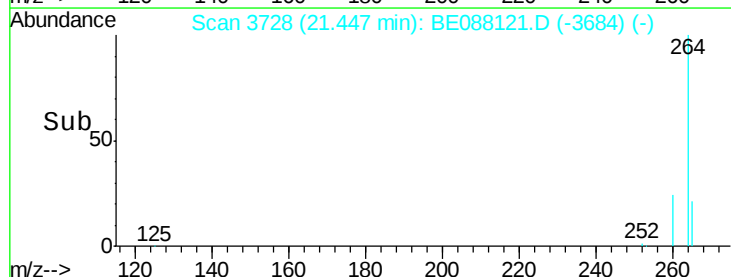
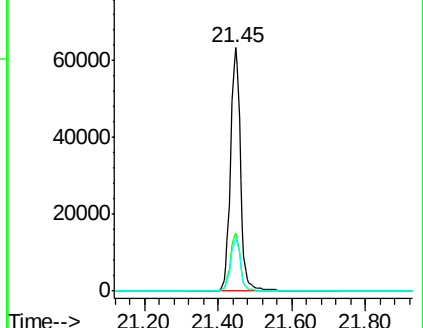
265 21.5 17.2 25.8

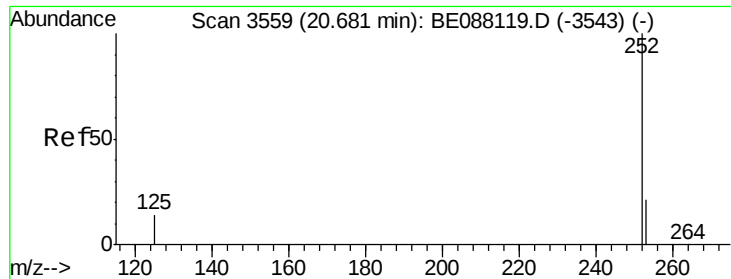


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 6.04 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

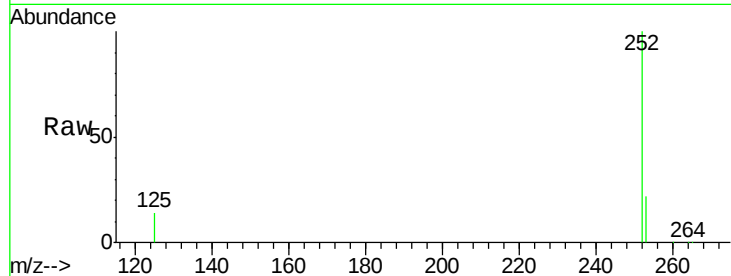
Tgt Ion:252 Resp: 134637

Ion Ratio Lower Upper

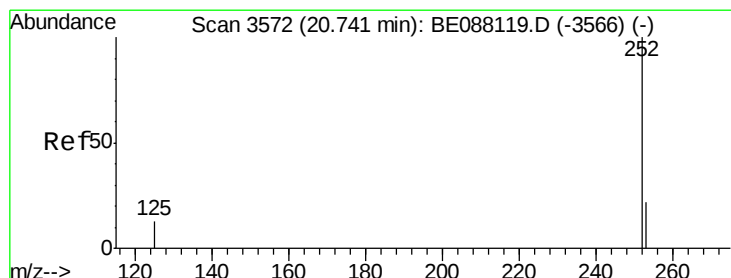
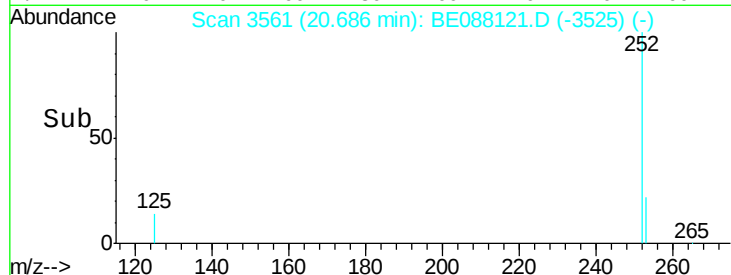
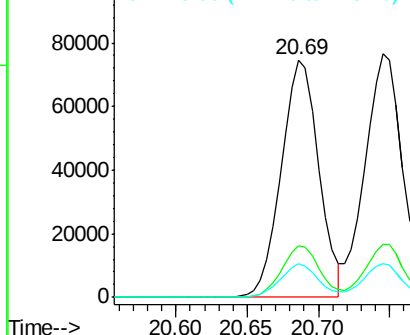
252 100

253 21.6 17.4 26.0

125 14.1 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: 4.73 ng

RT: 20.75 min Scan# 3574

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

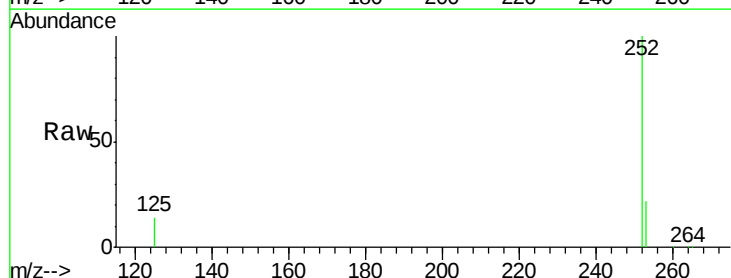
Tgt Ion:252 Resp: 146972

Ion Ratio Lower Upper

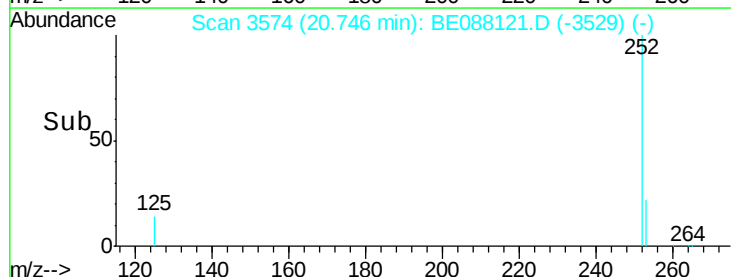
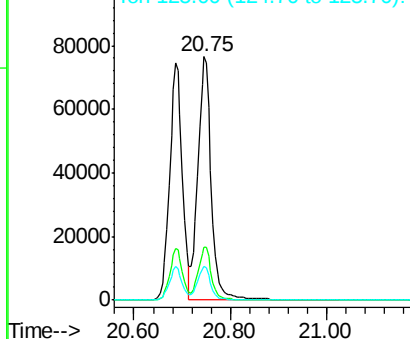
252 100

253 21.7 17.6 26.4

125 14.0 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: 6.77 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

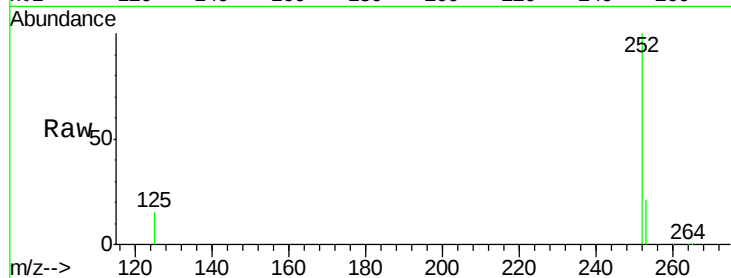
Tgt Ion:252 Resp: 130326

Ion Ratio Lower Upper

252 100

253 21.4 17.5 26.3

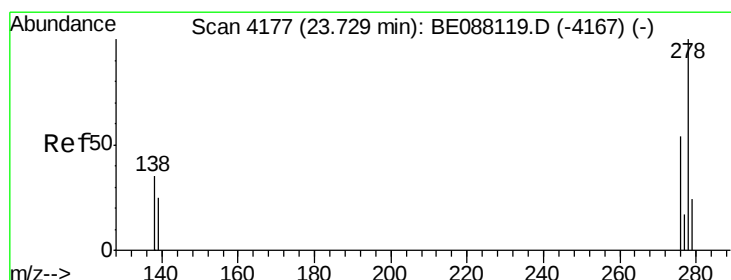
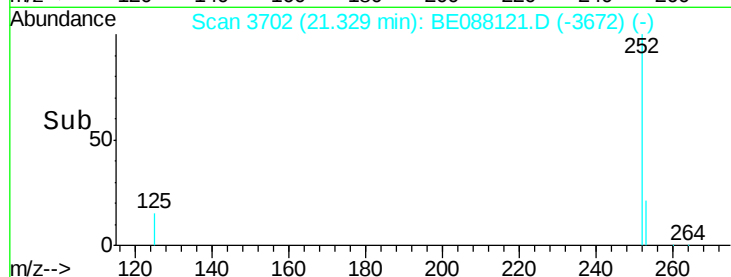
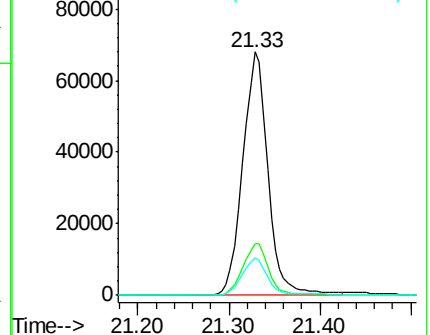
125 15.5 13.0 19.6



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: 6.22 ng

RT: 23.73 min Scan# 4179

Delta R.T. 0.01 min

Lab File: BE088121.D

Acq: 20 Oct 2014 22:56

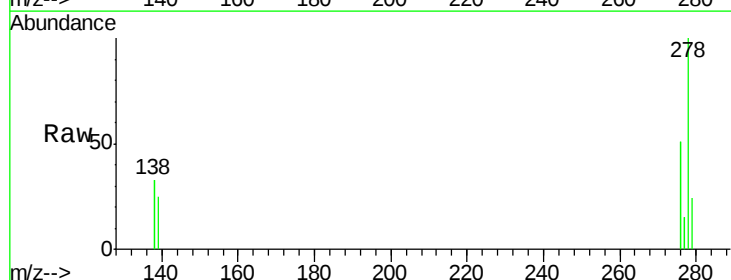
Tgt Ion:278 Resp: 126727

Ion Ratio Lower Upper

278 100

139 25.3 20.9 31.3

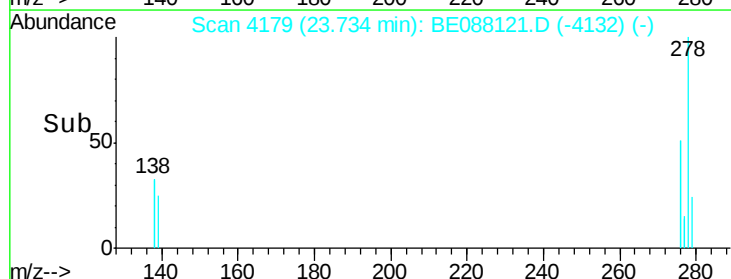
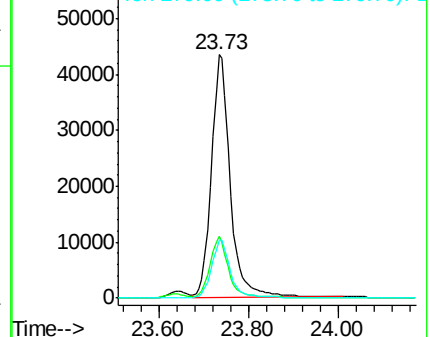
279 23.9 19.8 29.8

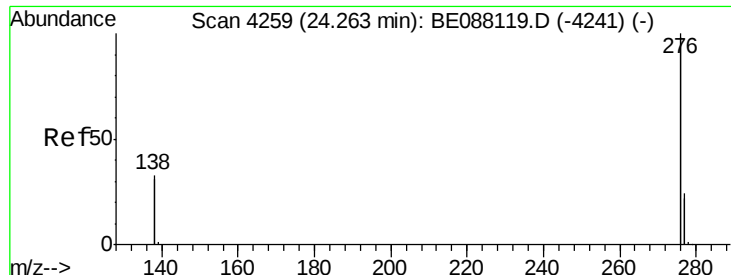


Abundance Ion 278.00 (277.70 to 278.70): E

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: 5.57 ng

RT: 24.28 min Scan# 4262

Delta R.T. 0.01 min

Lab File: BE088121.D

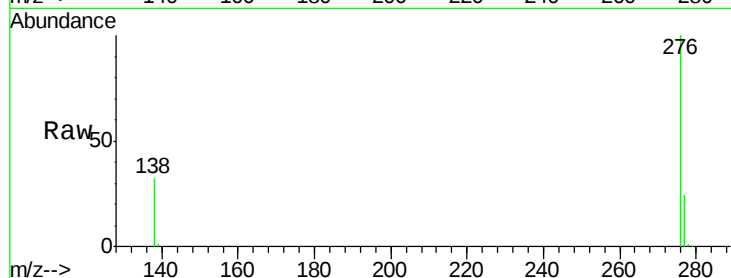
Acq: 20 Oct 2014 22:56

Instrument :

BNA_E

ClientSampleId :

SSTDIC005



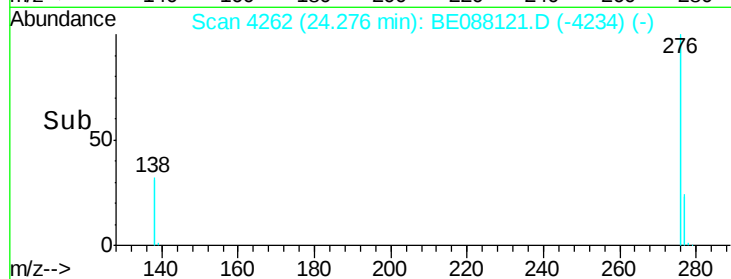
Tgt Ion: 276 Resp: 546610

Ion Ratio Lower Upper

276 100

277 23.7 19.2 28.8

138 31.8 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

