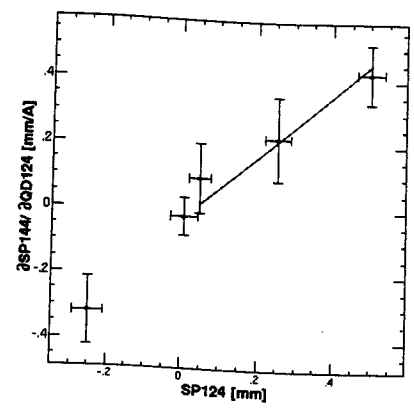


File Edit Window

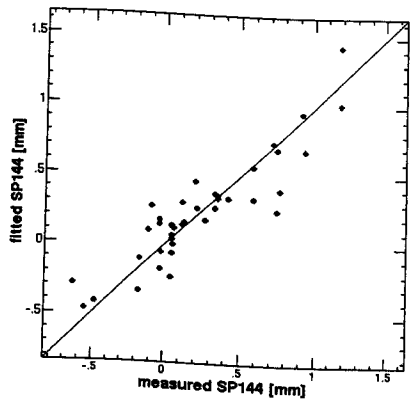


Hard Copy

Condition
 BPM to be Calibrated :
 SP124
 Direction :
 ◀ Horizontal Vertical
 Used Components :
 BPM : SP124
 Steering : ((SX121,1))
 from -2
 to 2
 number 5
 Q magnet: QD124
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP144 RT
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .0559
 error [mm]: .01074
 Last BPM taken into account :
 SP174
 rel. curr. thresh. : .7
 RT Ok | Save

File Edit Window

residual = .169 mm

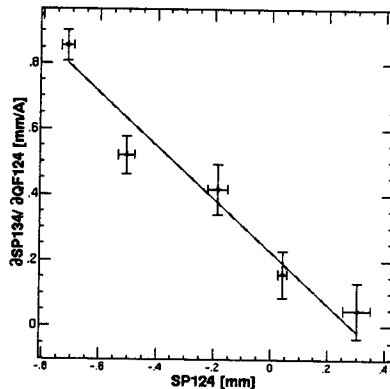


Hard Copy

Condition
 BPM to be Calibrated :
 SP124
 Direction :
 ◀ Horizontal Vertical
 Used Components :
 BPM : SP124
 Steering : ((SX121,1))
 from -2
 to 2
 number 5
 Q magnet: QD124
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP144 RT
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .0559
 error [mm]: .01074
 Last BPM taken into account :
 SP174
 rel. curr. thresh. : .7
 RT Ok | Save

SP134	0.048	0.036	(0.169)
SP144	0.034	0.016	(0.189)
SP154	0.075	0.019	(0.147)
SP164	0.078	0.027	(0.131)
SP174	0.229	0.252	(0.138)

File Edit Window

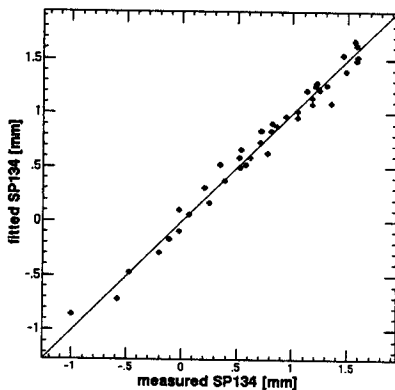


Hard Copy

Condition
 BPM to be Calibrated :
 SP124
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SP124
 Steering : ((SX121,1))
 from -2
 to 2
 number 5
 Q magnet: QF124
 from -1
 to 1
 number 3
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP134 FT
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .34174
 error [mm]: .01435
 Last BPM taken into account :
 SP174
 rel. curr. thresh.: .7
 Ft Ok I Save

File Edit Window

residual = .098 mm



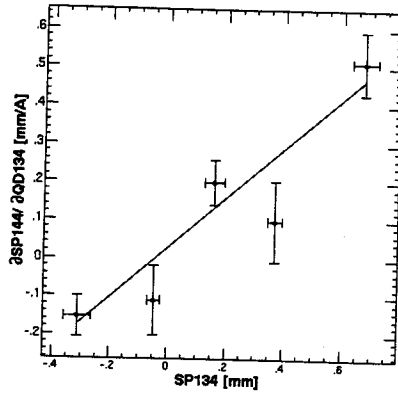
Hard Copy

Condition
 BPM to be Calibrated :
 SP124
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SP124
 Steering : ((SX121,1))
 from -2
 to 2
 number 5
 Q magnet: QF124
 from -1
 to 1
 number 3
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP134 FT
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .34174
 error [mm]: .01435
 Last BPM taken into account :
 SP174
 rel. curr. thresh.: .7
 Ft Ok I Save

SP134	0.294	0.021	(0.098)
SP144	0.348	0.024	(0.163)
SP154	0.465	0.045	(0.196)
SP164	0.426	0.056	(0.138)
SP174	0.456	0.122	(0.131)

File Edit Window

11/29/2002 20:52:09 Help



Condition
 BPM to be Calibrated :
 SP134

Direction :
 ◀ Horizontal Vertical

Used Components :
 BPM : SP134
 Steering : {{SX131,1}}
 from -2
 to 2
 number 5
 Q magnet: QD134
 from -1
 to 1
 number
 next remem. save
 GO READ

Display
 BPM : SP144 Steering step : FT

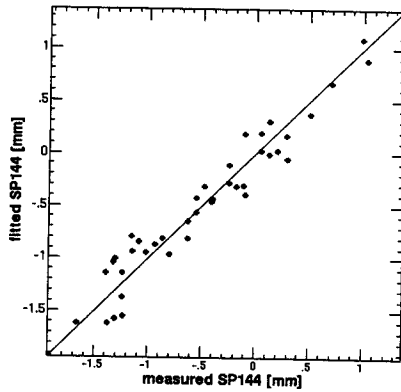
Result
 When the beam is at the Q center :
 BPM reading [mm]: -0.485
 error [mm]: .01289
 Last BPM taken into account : SP174
 rel. curr. thresh.: .7
 Ft Ok I Save

Hard Copy

File Edit Window

11/29/2002 20:52:09 Help

residual > .200 mm



Condition
 BPM to be Calibrated :
 SP134

Direction :
 ◀ Horizontal Vertical

Used Components :
 BPM : SP134
 Steering : {{SX131,1}}
 from -2
 to 2
 number 5
 Q magnet: QD134
 from -1
 to 1
 number
 next remem. save
 GO READ

Display
 BPM : SP144 Steering step : FTD

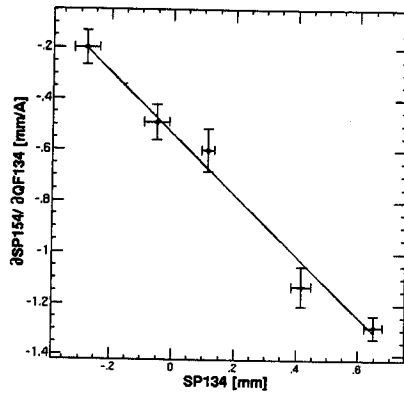
Result
 When the beam is at the Q center :
 BPM reading [mm]: -0.485
 error [mm]: .01289
 Last BPM taken into account : SP174
 rel. curr. thresh.: .7
 Ft Ok I Save

Hard Copy

SP144	-0.085	0.050	(0.200)
SP154	-0.065	0.021	(0.159)
SP164	-0.044	0.019	(0.154)
SP174	0.061	0.051	(0.128)

File Edit Window

11/29/2003 22:58:41 Help



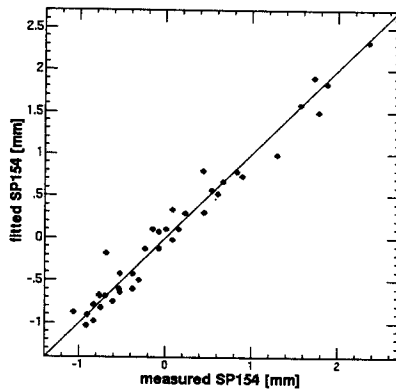
Hard Copy

Condition
 BPM to be Calibrated :
 SP134
 Direction :
 ◀ Horizontal Vertical
 Used Components :
 BPM : SP134
 Steering : (('SX131',1))
 from -2
 to 2
 number 5
 Q magnet: QF134
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP154 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: -50616
 error [mm]: .02707
 Last BPM taken into account :
 SP174
 rel. curr. thresh. : .7
 Fit Chk I Save

File Edit Window

11/29/2003 22:59:22 Help

residual = .175 mm



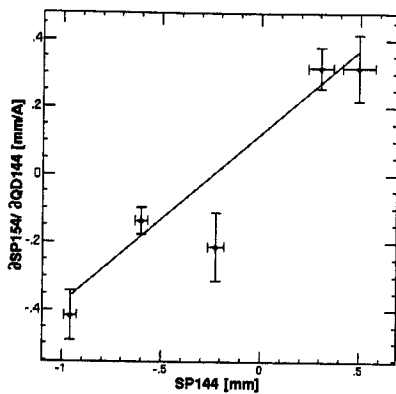
Hard Copy

Condition
 BPM to be Calibrated :
 SP134
 Direction :
 ◀ Horizontal Vertical
 Used Components :
 BPM : SP134
 Steering : (('SX131',1))
 from -2
 to 2
 number 5
 Q magnet: QF134
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP154 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: -50616
 error [mm]: .02707
 Last BPM taken into account :
 SP174
 rel. curr. thresh. : .7
 Fit Chk I Save

SP144	-0.524	0.064	(0.157)
SP154	-0.488	0.045	(0.175)
SP164	-0.519	0.043	(0.141)
SP174	-0.477	0.109	(0.141)

File Edit Window

11-29-2003 23:20:15 Help



Condition
 BPM to be Calibrated :
 SP144

Direction :
 ◀ Horizontal Vertical

Used Components :
 BPM : SP144
 Steering : {{SX131',1}}
 from -1.5
 to 1.5
 number 5
 Q magnet: QD144
 from -1
 to 1
 number 8

next remem. save
 GO READ

Display
 BPM : Steering step :
 SP154 Fit

Result
 When the beam is at the Q center :
 BPM reading [mm]: -10723
 error [mm]: .01061

Last BPM taken into account :
 SP21K5
 rel. curr. thresh. :

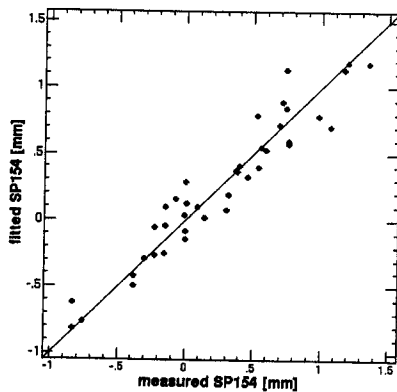
Fit Chk I Save

Hard Copy

File Edit Window

11-29-2003 23:20:34 Help

residual = .170 mm



Condition
 BPM to be Calibrated :
 SP144

Direction :
 ◀ Horizontal Vertical

Used Components :
 BPM : SP144
 Steering : {{SX131',1}}
 from -1.5
 to 1.5
 number 5
 Q magnet: QD144
 from -1
 to 1
 number 8

next remem. save
 GO READ

Display
 BPM : Steering step :
 SP154 Fit

Result
 When the beam is at the Q center :
 BPM reading [mm]: -10723
 error [mm]: .01061

Last BPM taken into account :
 SP21K5
 rel. curr. thresh. :

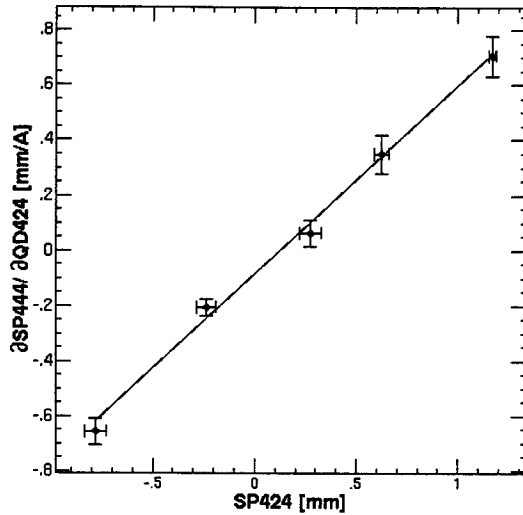
Fit Chk I Save

Hard Copy

2003/11/30
13:42

File Edit Window

11/30/2003 13:42:15 Help



Condition
BPM to be Calibrated :
SP424

Direction :
◆ Horizontal Vertical

Used Components :
BPM : SP424
Steering : {{("SX413",1)}
from -2
to 2
number 5
Q magnet: QD424
from -1
to 1
number 8

next remem. save
GO READ

Display
BPM : SP444 Steering step : Fit

Result
When the beam is at the Q center :
BPM reading [mm]: .19845
error [mm]: .00798
Last BPM taken into account :
SP544
rel. curr. thresh. : .7

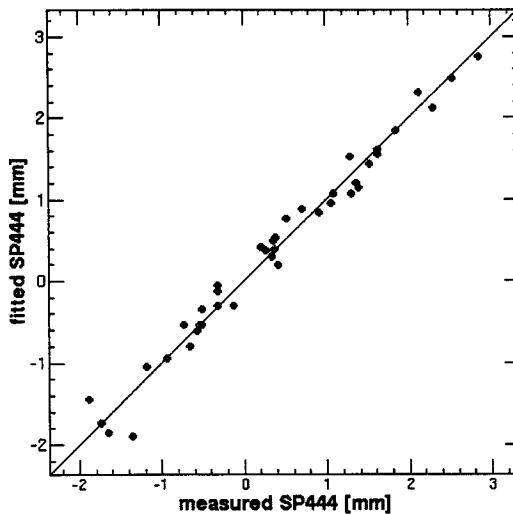
Fit Chk I Save

Hard Copy

File Edit Window

11/30/2003 13:42:09 Help

residual = .191 mm



Condition
BPM to be Calibrated :
SP424

Direction :
◆ Horizontal Vertical

Used Components :
BPM : SP424
Steering : {{("SX413",1)}
from -2
to 2
number 5
Q magnet: QD424
from -1
to 1
number 8

next remem. save
GO READ

Display
BPM : SP444 Steering step : Fit

Result
When the beam is at the Q center :
BPM reading [mm]: .19845
error [mm]: .00798
Last BPM taken into account :
SP544
rel. curr. thresh. : .7

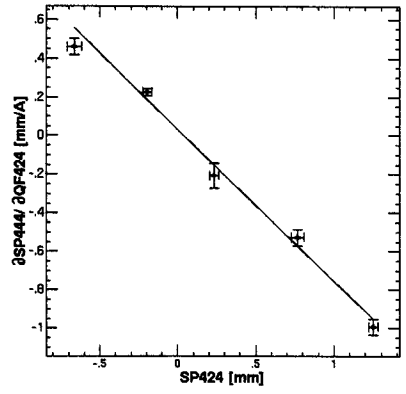
Fit Chk I Save

Hard Copy

SP444	0.167	0.017	(0.191)
SP464	0.189	0.013	(0.109)
SP484	-1.519	1.318	(0.103)
SP524	0.242	0.023	(0.208)
SP544	0.218	0.015	(0.161)

File Edit Window

11/26/2003 14:41:57 Help



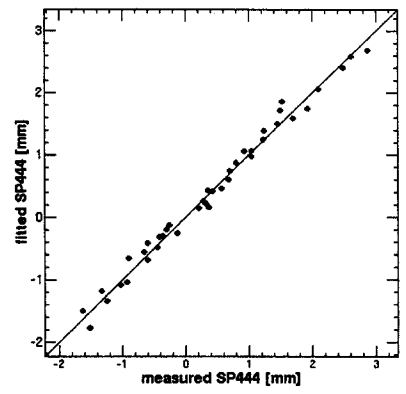
Condition
BPM to be Calibrated :
SP424
Direction :
Horizontal Vertical
Used Components :
BPM : SP424
Steering : {{("SX413",1)}}
from -2
to 2
number 5
Q magnet: QF424
from -1
to 1
number
next remem. save
GO READ
Display
BPM : Steering step :
SP444 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: -0.0441
error [mm]: .00597
Last BPM taken into account :
SP544
rel. curr. thresh. : .7
Fit Chk I Save

Hard Copy

File Edit Window

11/26/2003 14:41:58 Help

residual = .140 mm



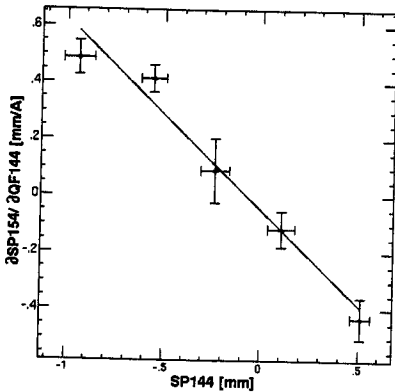
Condition
BPM to be Calibrated :
SP424
Direction :
Horizontal Vertical
Used Components :
BPM : SP424
Steering : {{("SX413",1)}}
from -2
to 2
number 5
Q magnet: QF424
from -1
to 1
number
next remem. save
GO READ
Display
BPM : Steering step :
SP444 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: -0.0441
error [mm]: .00597
Last BPM taken into account :
SP544
rel. curr. thresh. : .7
Fit Chk I Save

Hard Copy

SP444	-0.017	0.013	(0.140)
SP464	0.039	0.013	(0.107)
SP484	-0.690	0.360	(0.109)
SP524	-0.016	0.015	(0.153)
SP544	-0.016	0.009	(0.104)

File Edit Window

11/29/2003 12:25:48 Help

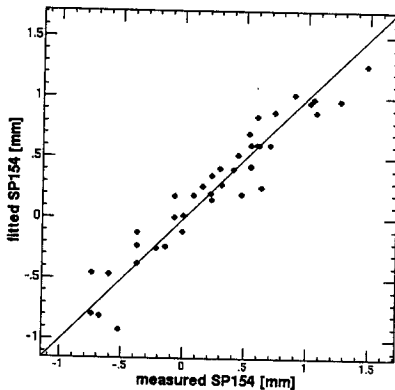


Condition
 BPM to be Calibrated :
 SP144
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SP144
 Steering : ((SX131,1))
 from -1.5
 to 1.5
 number 5
 Q magnet: QF144
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP154 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: -0.1527
 error [mm]: .00787
 Last BPM taken into account :
 SP21KS
 rel. curr. thresh. : 0
 Fit Chk I Save

File Edit Window

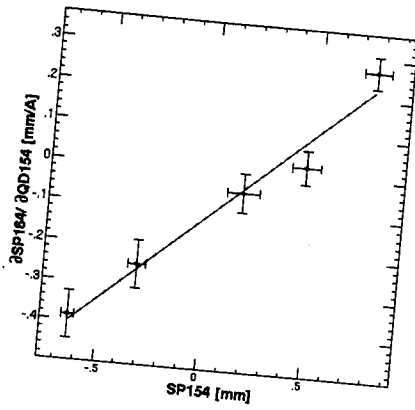
11/29/2003 12:27:29 Help

residual = .175 mm



Condition
 BPM to be Calibrated :
 SP144
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SP144
 Steering : ((SX131,1))
 from -1.5
 to 1.5
 number 5
 Q magnet: QF144
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP154 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: -0.1527
 error [mm]: .00787
 Last BPM taken into account :
 SP21KS
 rel. curr. thresh. : 0
 Fit Chk I Save

File Edit Window



Hard Copy

Condition
BPM to be Calibrated :
SP154

Direction :
Horizontal Vertical

Used Components :
BPM : SP154

Steering :
from ((SX141,1)) -1.5
to 1.5
number 5

Q magnet: QD154
from -1
to 1
number 5

next remem. save

GO READ

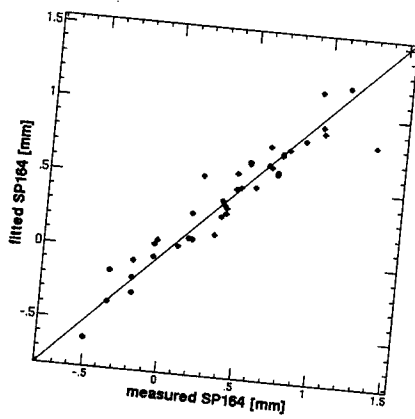
Display
BPM : SP154
Steering step : Ft

Result
When the beam is at the Q center :
BPM reading [mm]: .30463
error [mm]: .01674
Last BPM taken into account : SP2215
ref. curr. thresh. : 0

Ft Chk I Save

File Edit Window

residual = .146 mm



Hard Copy

Condition
BPM to be Calibrated :
SP154

Direction :
Horizontal Vertical

Used Components :
BPM : SP154

Steering :
from ((SX141,1)) -1.5
to 1.5
number 5

Q magnet: QD154
from -1
to 1
number 5

next remem. save

GO READ

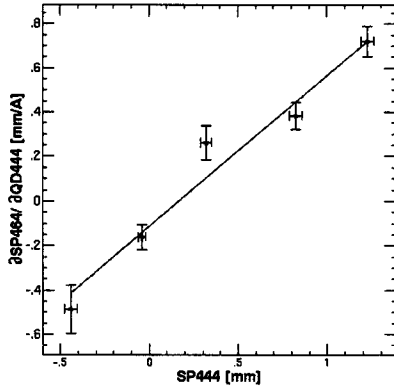
Display
BPM : SP154
Steering step : Ft

Result
When the beam is at the Q center :
BPM reading [mm]: .30463
error [mm]: .01674
Last BPM taken into account : SP2215
ref. curr. thresh. : 0

Ft Chk I Save

File Edit Window

11/30/2002 14:50:07 Help



Hard Copy

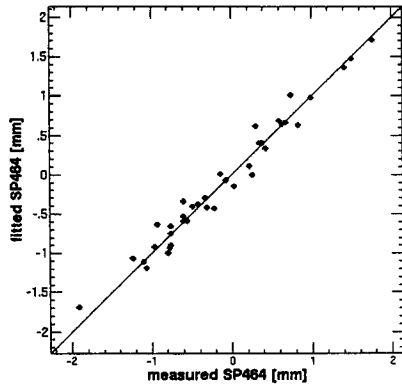
```

Condition
BPM to be Calibrated :
SP444
Direction :
  Horizontal  Vertical
Used Components :
BPM : SP444
Steering : {{("SX433",1)}
  from -2
  to 2
  number 5
Q magnet: QD444
  from -1
  to 1
  number 8
  next remem. save
GO READ
Display
BPM : Steering step :
SP464 Ft
Result
When the beam is at the Q center :
BPM reading [mm]: .18561
error [mm]: .0079
Last BPM taken into account :
SP564
rel. curr. thresh. : .7
Ft Ok I Save
  
```

File Edit Window

11/30/2002 14:50:09 Help

residual = .154 mm



Hard Copy

```

Condition
BPM to be Calibrated :
SP444
Direction :
  Horizontal  Vertical
Used Components :
BPM : SP444
Steering : {{("SX433",1)}
  from -2
  to 2
  number 5
Q magnet: QD444
  from -1
  to 1
  number 8
  next remem. save
GO READ
Display
BPM : Steering step :
SP464 Ft
Result
When the beam is at the Q center :
BPM reading [mm]: .18561
error [mm]: .0079
Last BPM taken into account :
SP564
rel. curr. thresh. : .7
Ft Ok I Save
  
```

SP464	0.182	0.023	(0.154)
SP484	0.180	0.011	(0.101)
SP524	0.217	0.025	(0.092)
SP544	0.259	0.041	(0.118)
SP564	0.175	0.015	(0.122)