T1.1 Performance Update

- .. So far ran for a week.
- Completed 500K actuations
- Running at 0.8hz (3K per hour)
- No daily stops
- No sign of sticking.
- Have been trial running monitoring script:
  - Includes a performance summary.
  - Shows Optical signals / BPS limits for checking.
  - Daily reports can be viewed at: http://www.hep.shef.ac.uk/research/mice/uploads/T11/

Target Performance Report - T1.1(R78)

Report Generated: January 31, 2012,

Last Actuation: 31/01/12 12:55:47

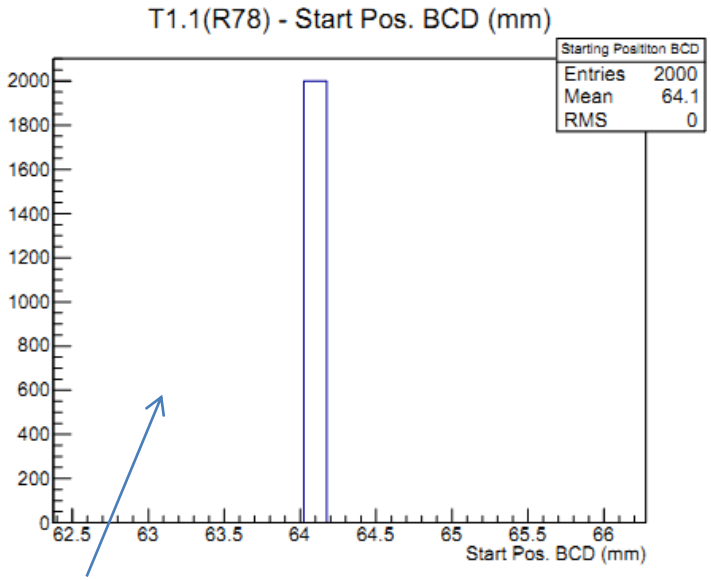
1 Operation Summary

	Last Shift	Total
Actuations:	74.7K	486.4 K
Quadrature Count errors:	0	0
Fiber ADC errors:	0	0
BPS errors (during actuation):	0	0
(R78) Gaps > 3s & < 10s:	0	0
(R78) Gaps > 10s:	0	2
(R78) SP2 Corrections:	0	1
(R78) Capture Over/Under shoots:	0/0	0/0

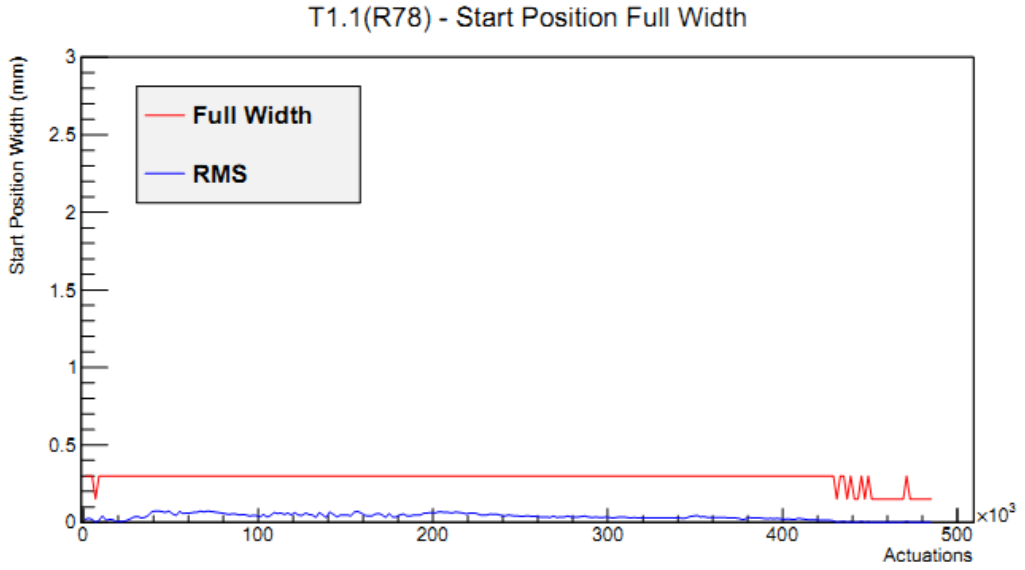
Shift in R78 means a day of running (time between checks)

R78 specific things to monitor. Not applicable to ISIS running mode.

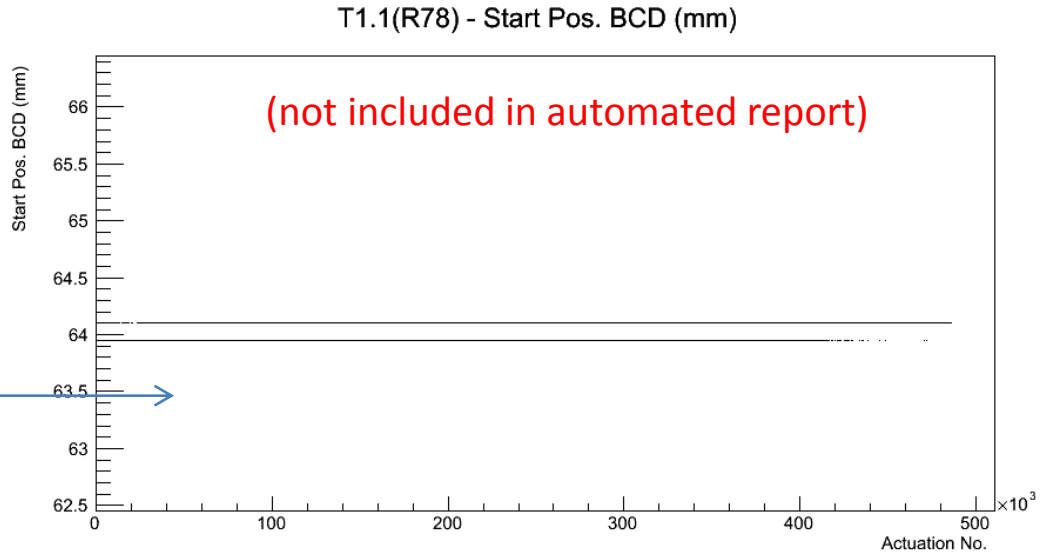
2 Mechanical Performance



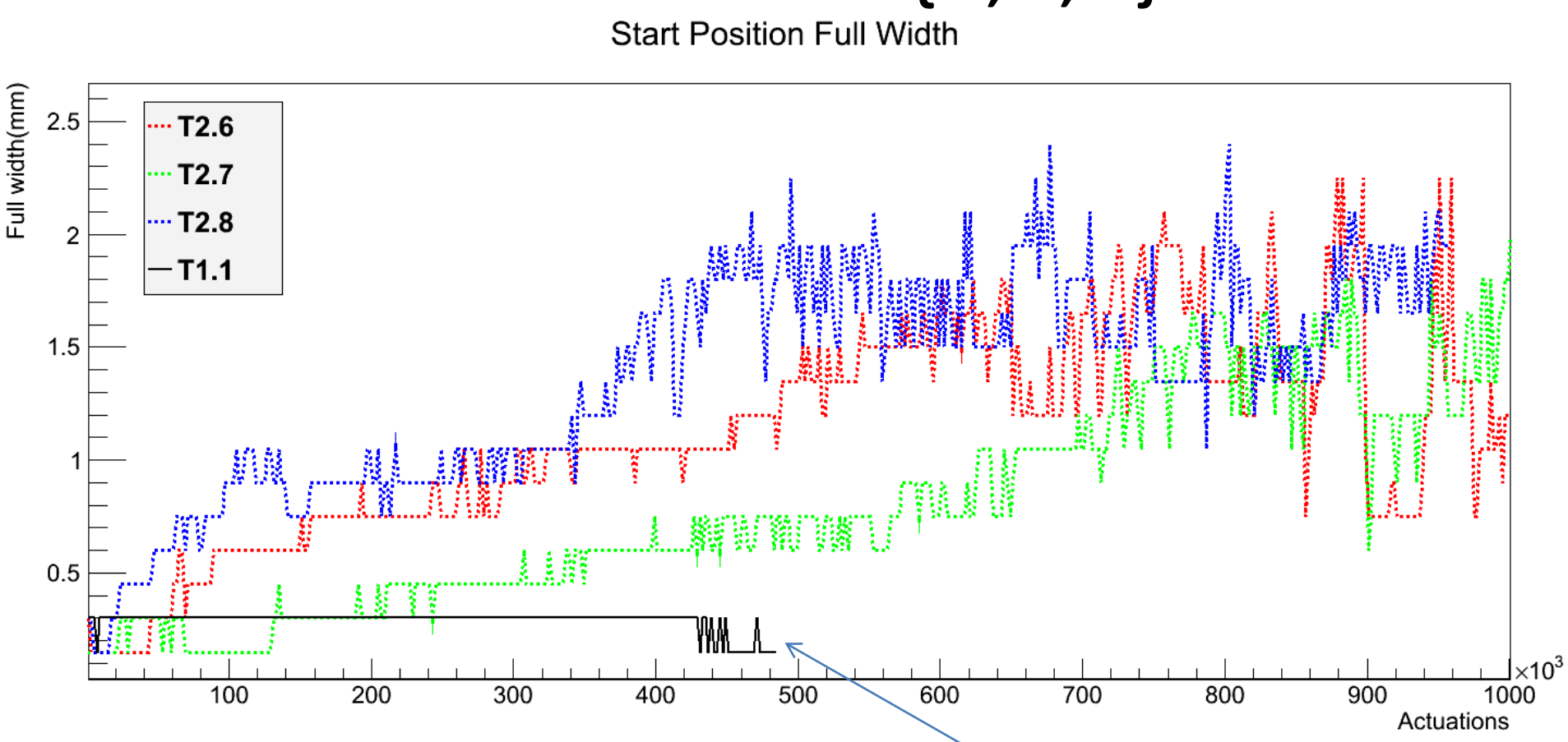
Starting position for the last 2000 actuations



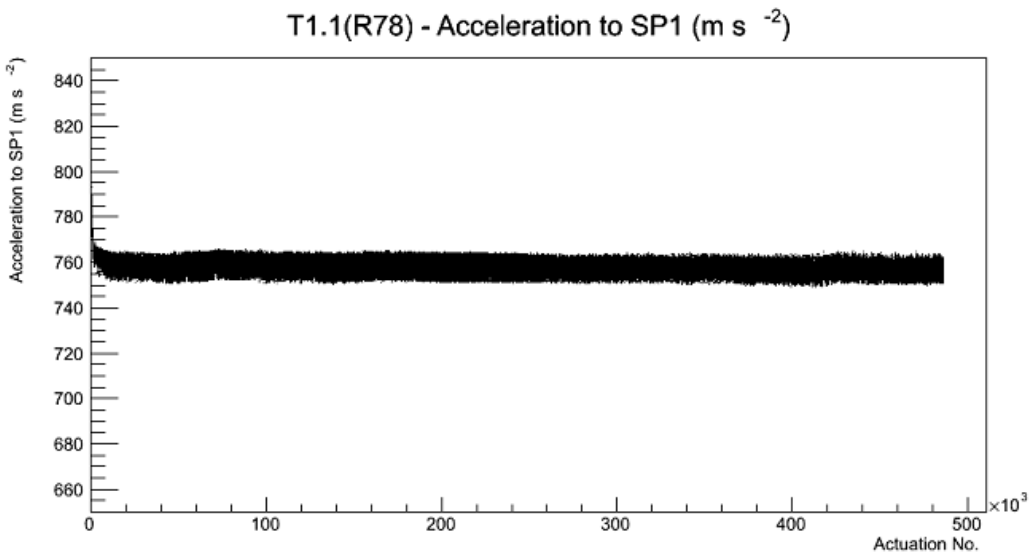
RAW starting position:

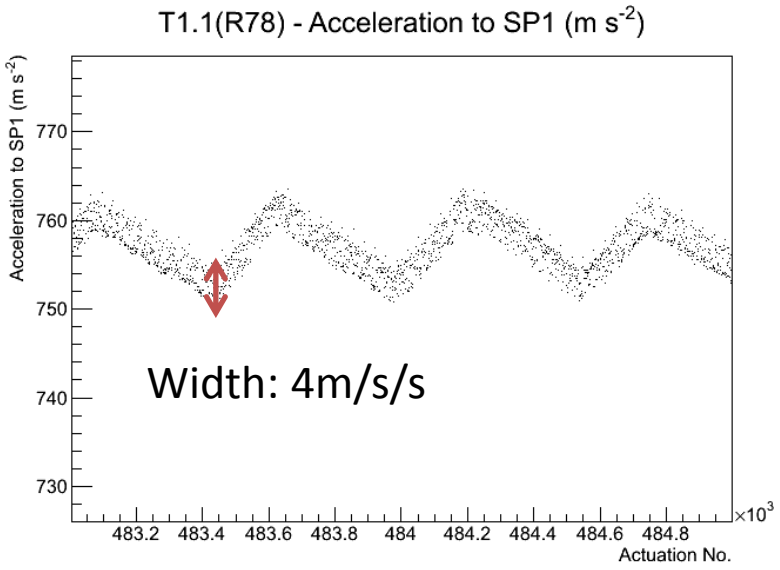


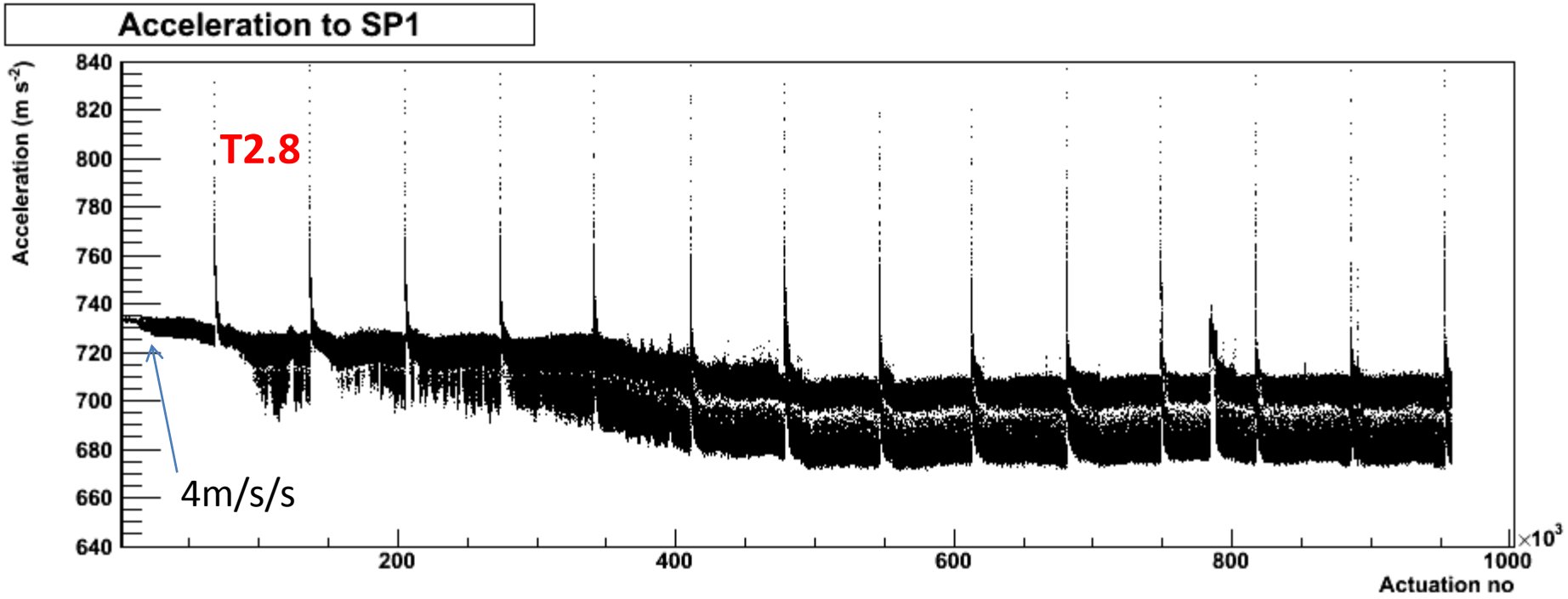
T1.1 with T2.{6,7,8}



Start position is not broadening as quickly as seen in T2x targets (if at all?)


T1.1(R78) - Acceleration to SP1 (m s -2)
Acceleration to SP1 (m s -2)
840
820
800
780
760
740
720
700
680
660
0
100
200
300
400
500
×10^3
Actuation No.


T1.1(R78) - Acceleration to SP1 (m s-2)
Acceleration to SP1 (m s-2)
770
760
750
740
730
Width: 4m/s/s
483.2
483.4
483.6
483.8
484
484.2
484.4
484.6
484.8
×10^3
Actuation No.


Acceleration to SP1
Acceleration (m s-2)
T2.8
4m/s/s
840
820
800
780
760
740
720
700
680
660
640
200
400
600
800
1000
×10^3
Actuation no

T1.1 Summary

- Both starting position and acceleration are looking perfect.
- No signs of increased variability (yet!).
- Do we run for 1.5M pulses?