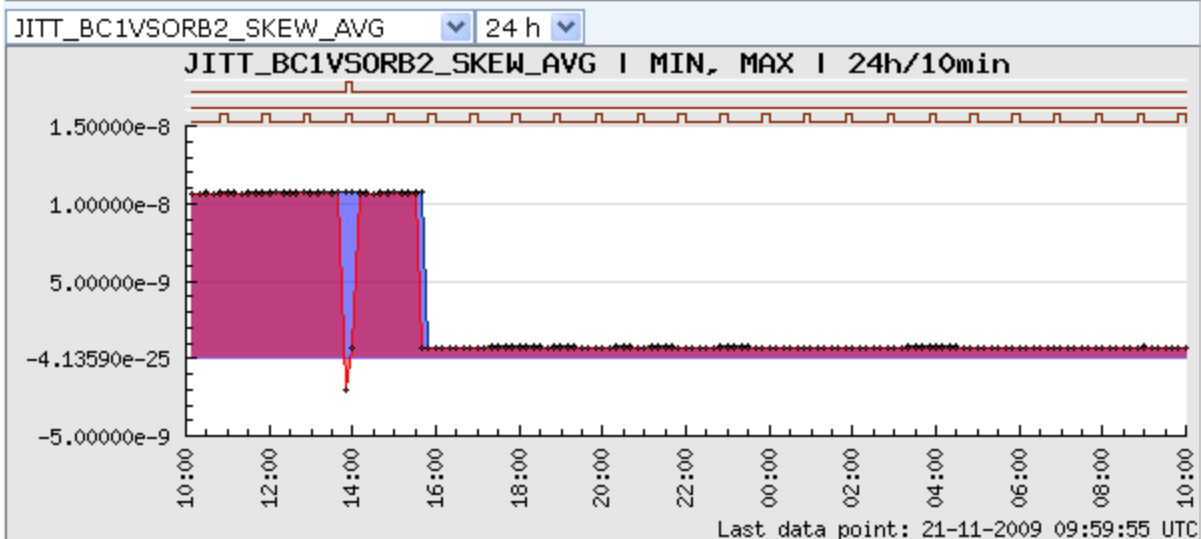
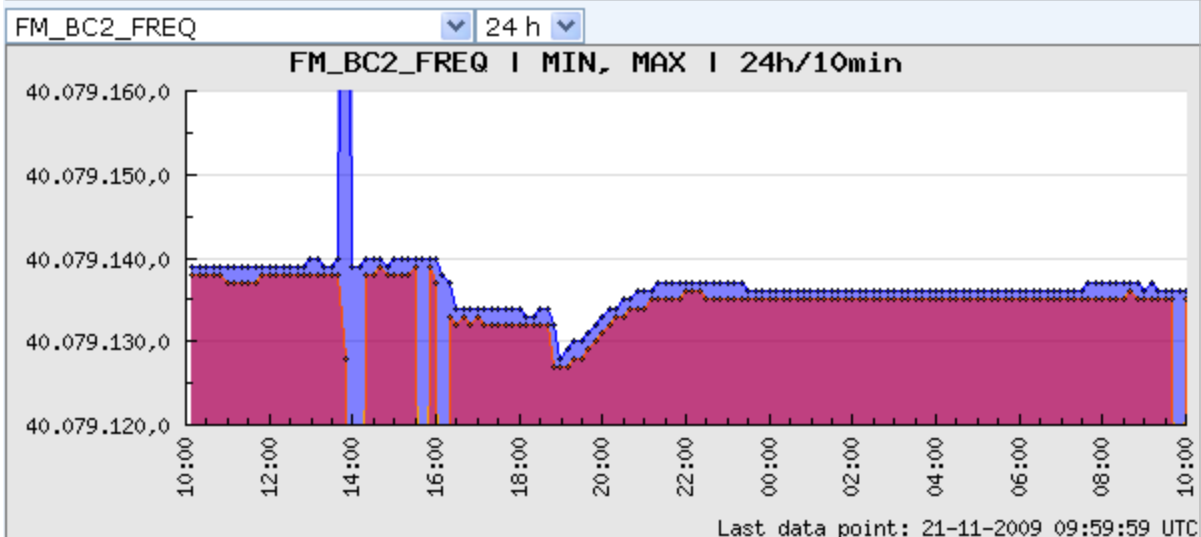
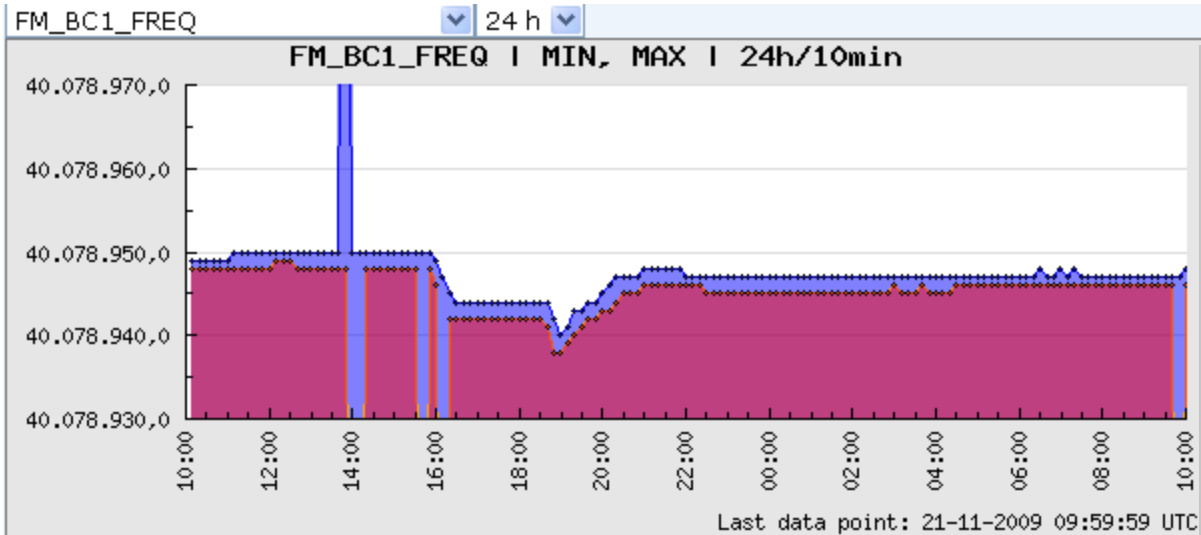


RF signals logbook Days 1-10

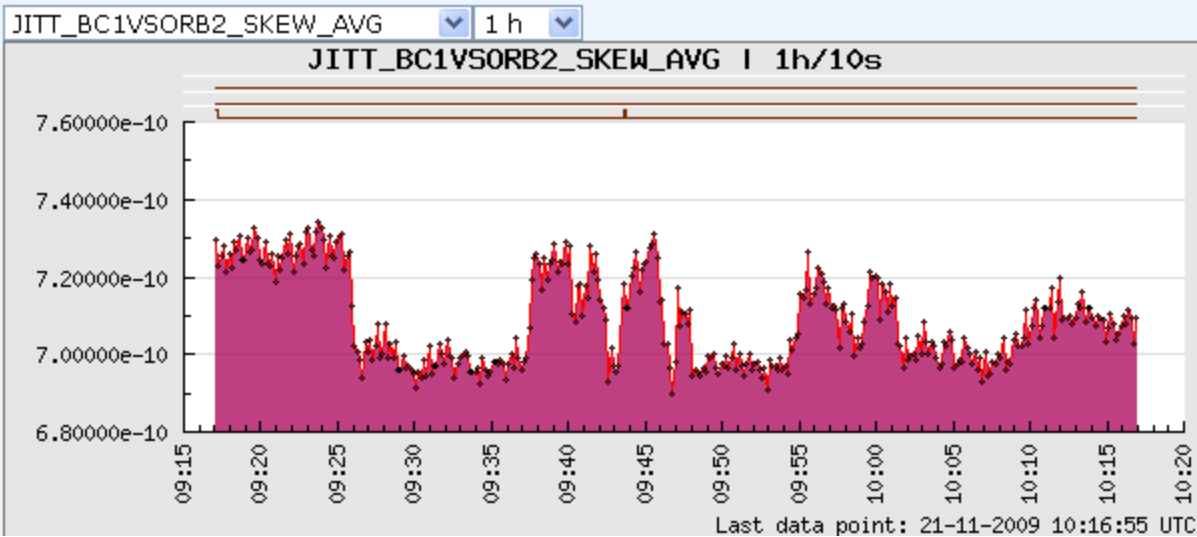
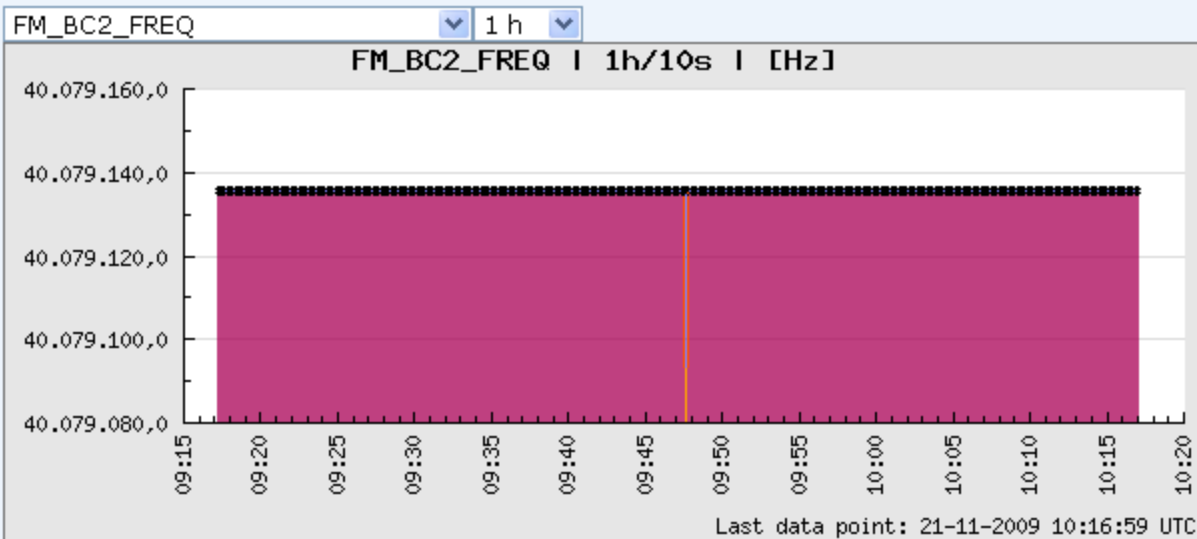
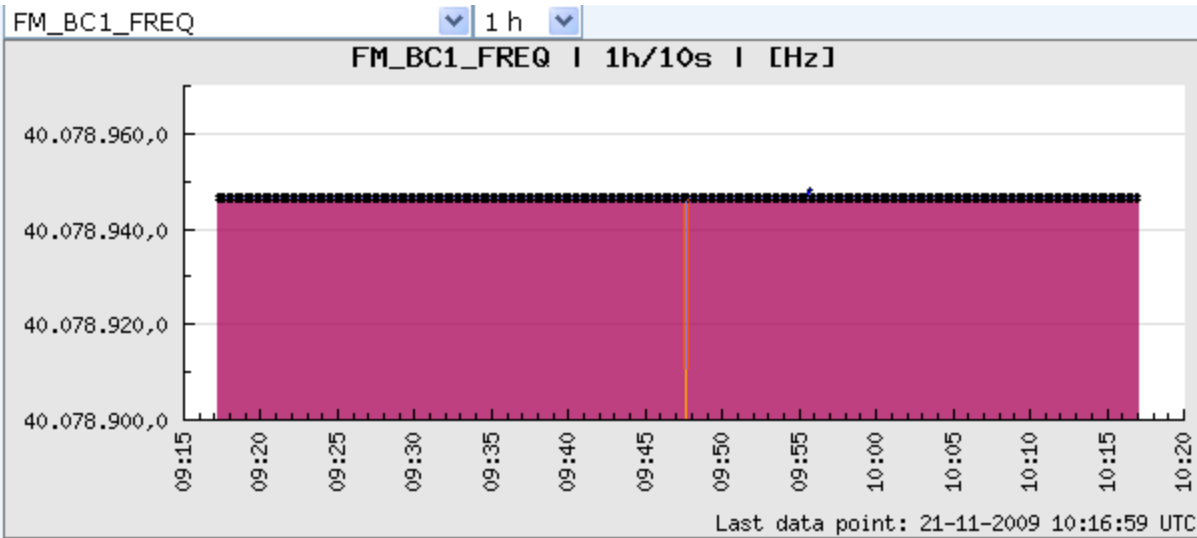
Friday 20.11.09 (10h) – Saturday 21.11.09 (10h)

UTC+1h+GVA

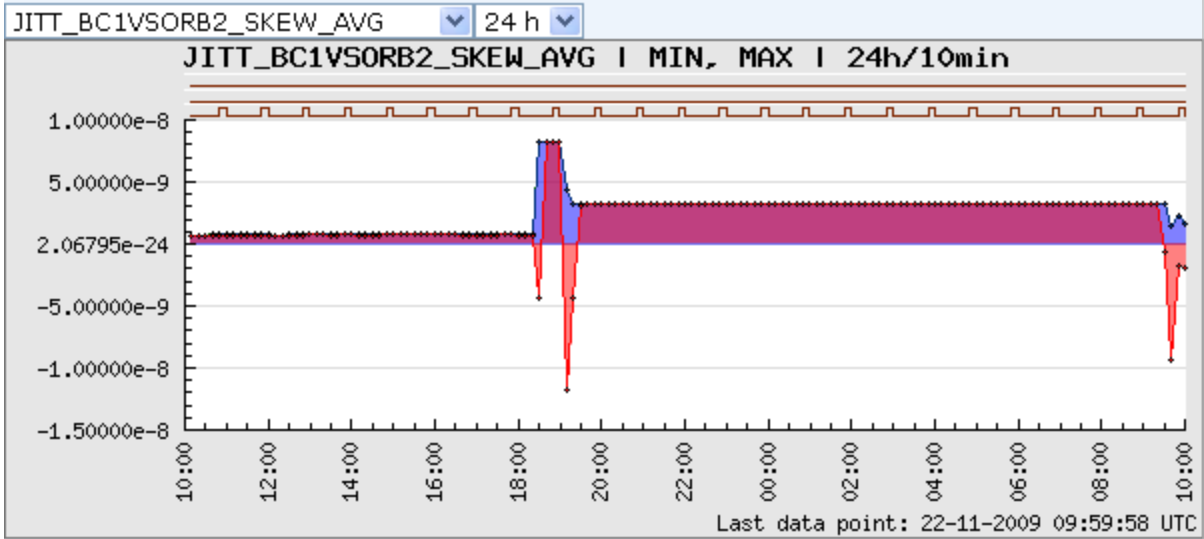
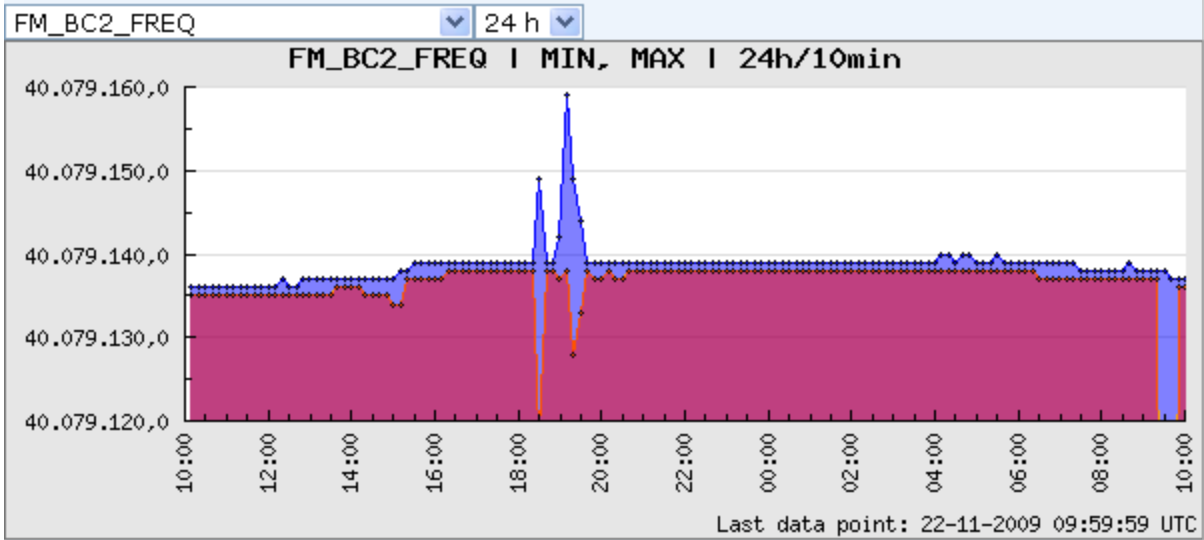
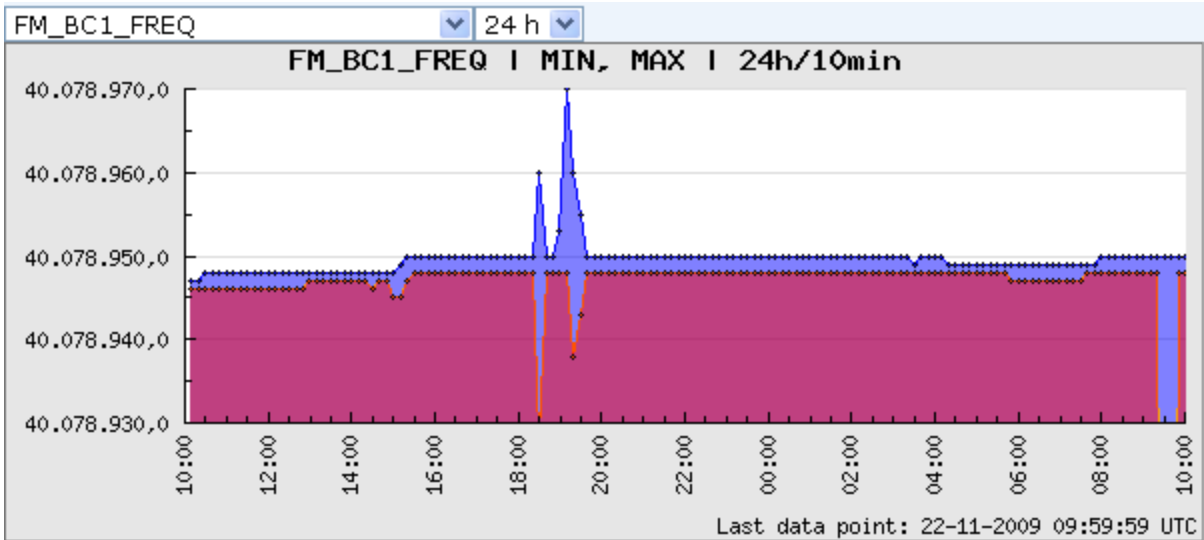


- 17:44: RF cavities off
- 18:55: 1st beam1
- 19:22: quench 56
- 20:15: beam back
- 20:35: first turn beam 1
- 21:09: 500 turns
- 21:45: capture
- 22:15: B2
- 23:12: 1st shot B2
- 23:40: 1st turn B2
- 0:00: 100 turns B2
- 0:12: B2 captured
- Cogging value agreed between 4 experiments = 29.841us
- 6:00 pre cycle generated a trip of 34
- 10:50 first cogging attempt advancing the B2 by 29.841us

Details on the first cogging attempt (10:48) : did not work

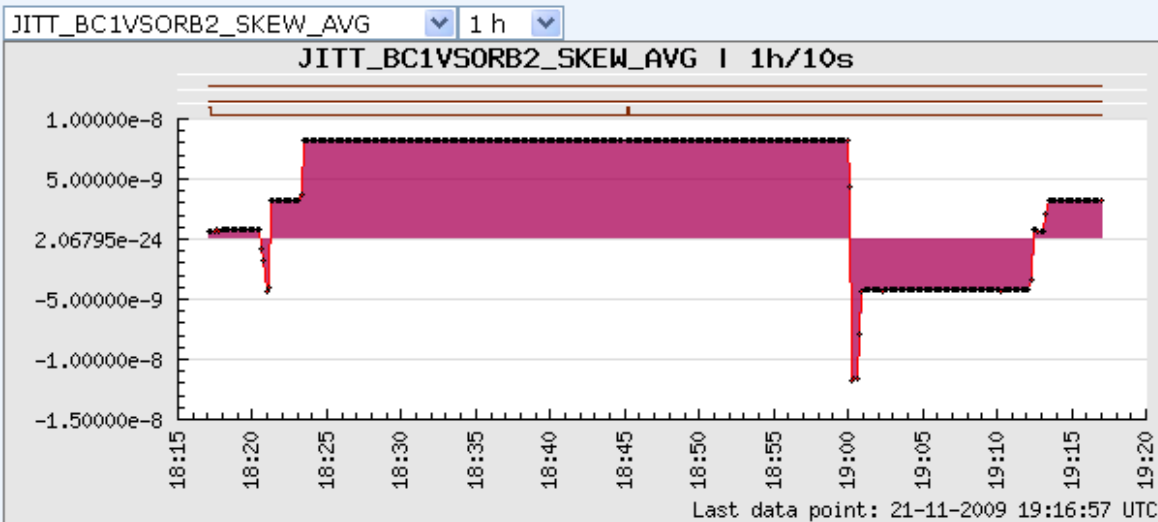
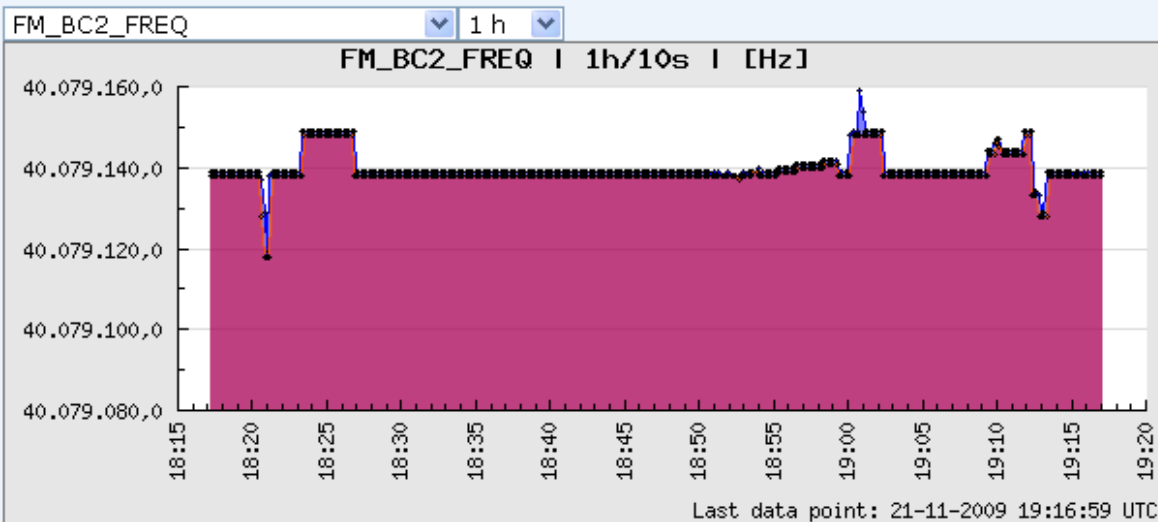
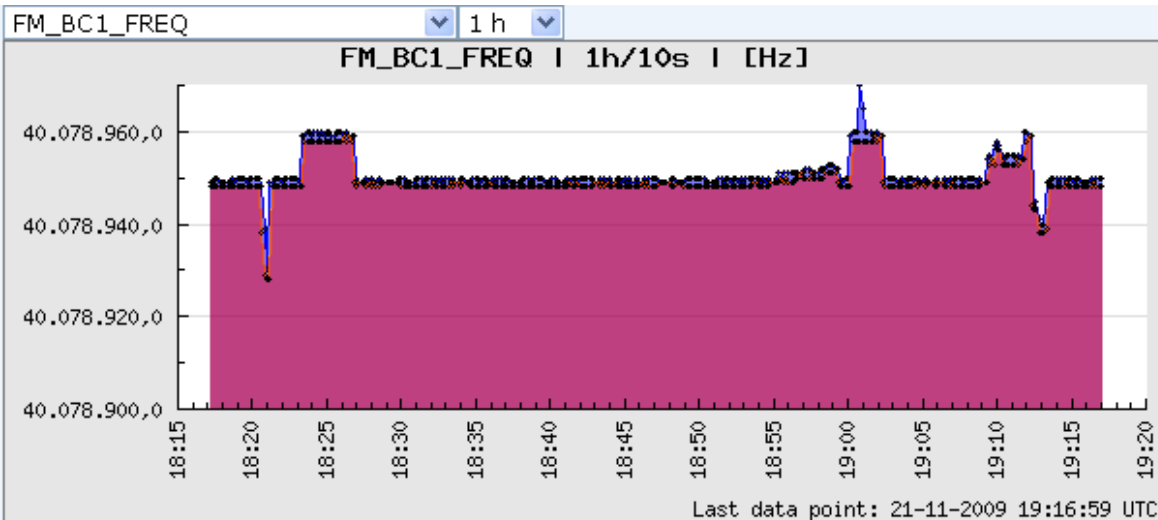


Saturday -21.11.09 (10h) - Sunday 22.11.09 (10h)

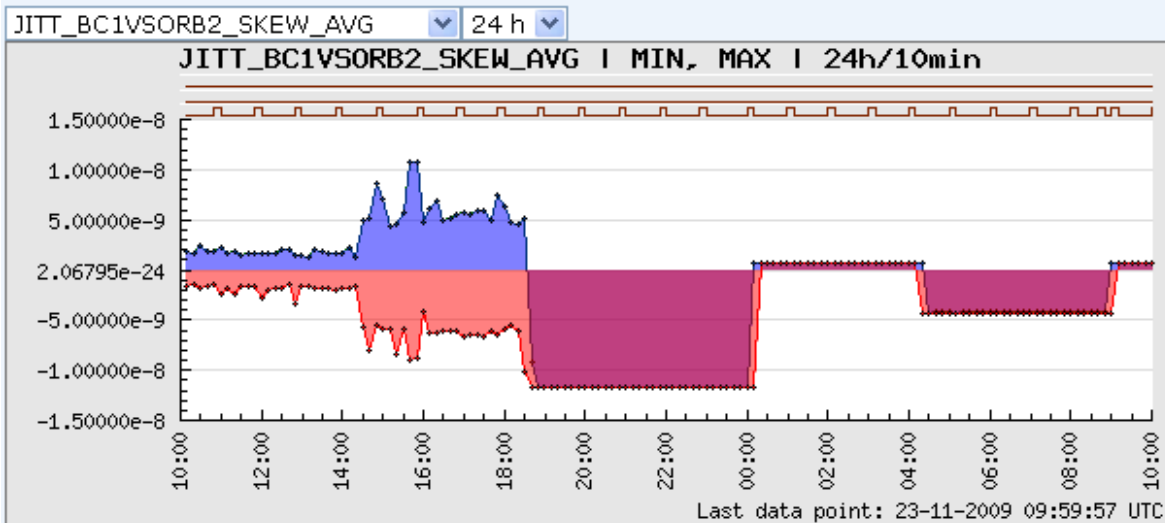
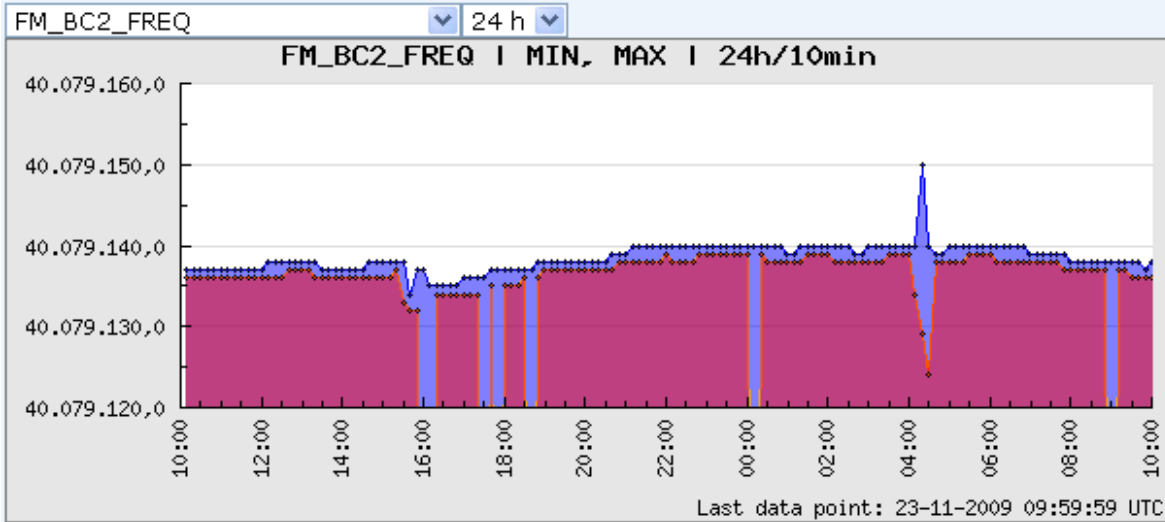
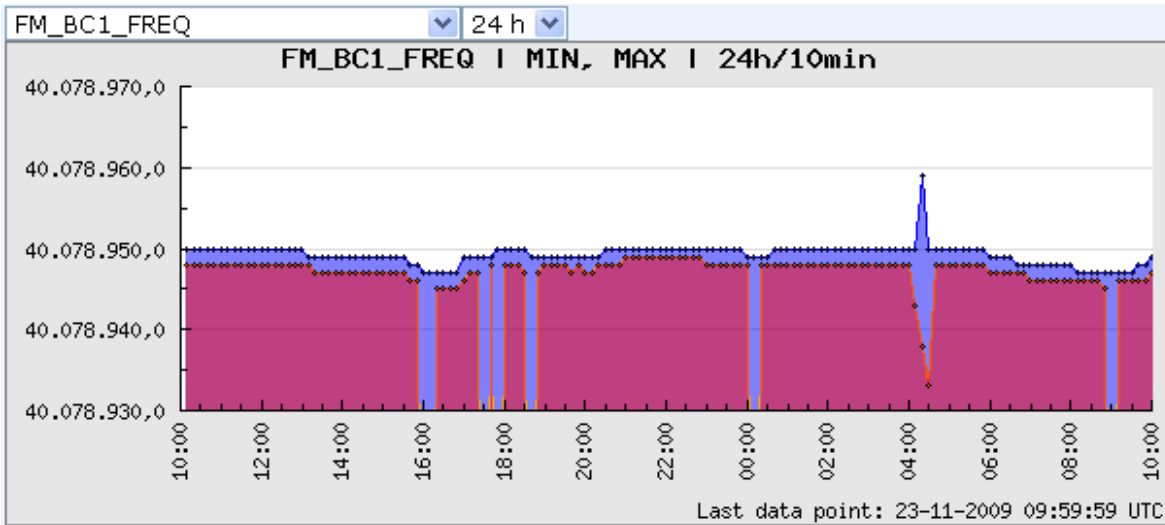


- 15:40: ready to inject B1
- 16:32: 120 turns
- 16:44: 20s circ&dump
- 17:31: circulating
- 18:38: beam dumped after 50mn
- 18:48: dumped the beam after tune trims
- 19:00: RF capture finished
- 19:23: chromaticity – 100Hz trim
- 19:24: Dispersion meas +-100Hz
- 20:00: 200Hz dispersion – lost beam
- 6:00precycle trip 12, 34
- 10:48: unlock B1 (400.788977) from B2 (400.788963)

Details on the TRIMMS

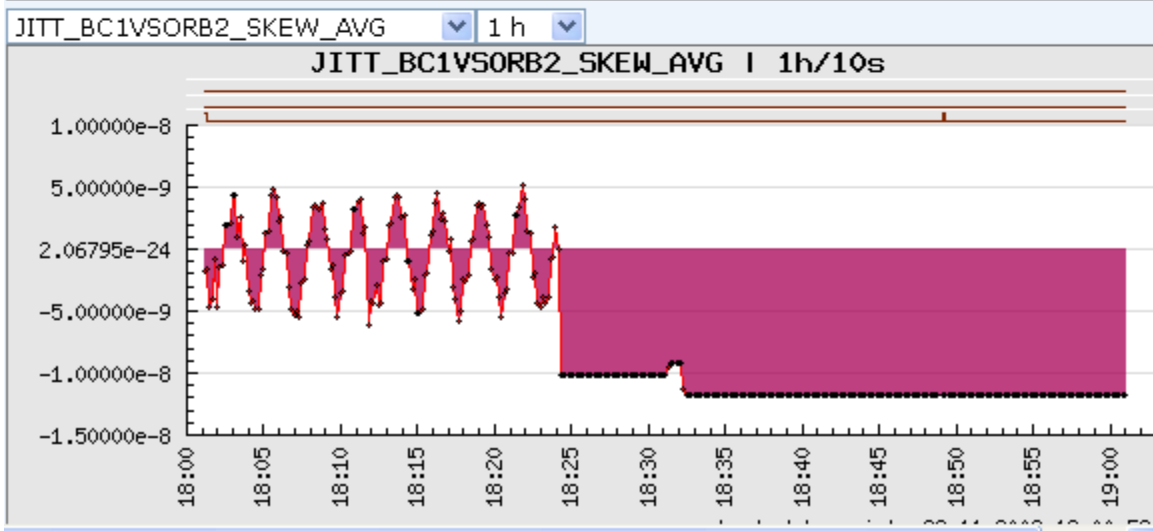
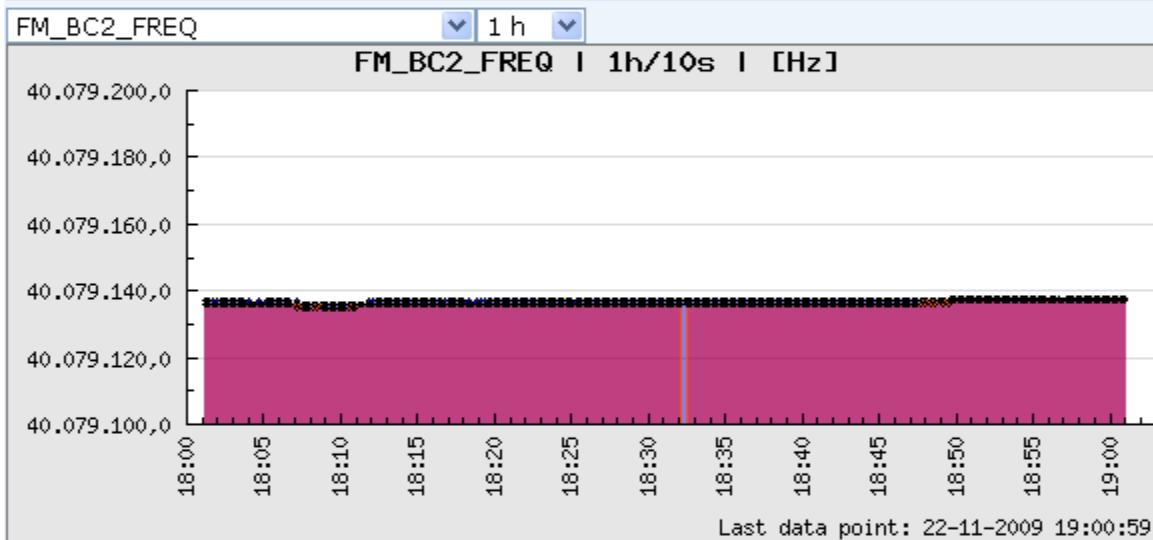
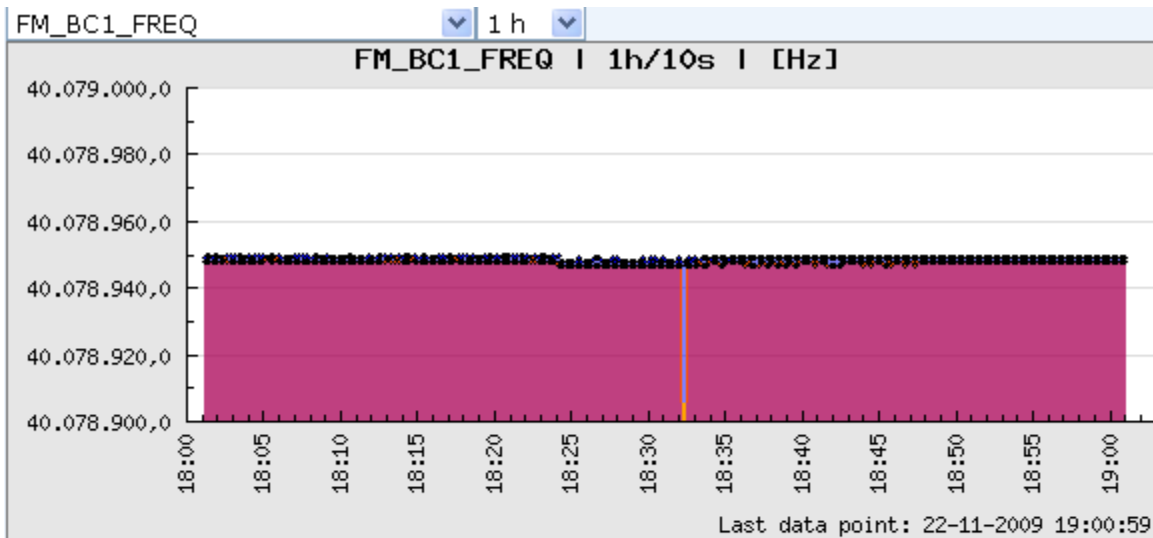


Sunday 22.11.09 (10h) – Monday 23.11.09 (10h)

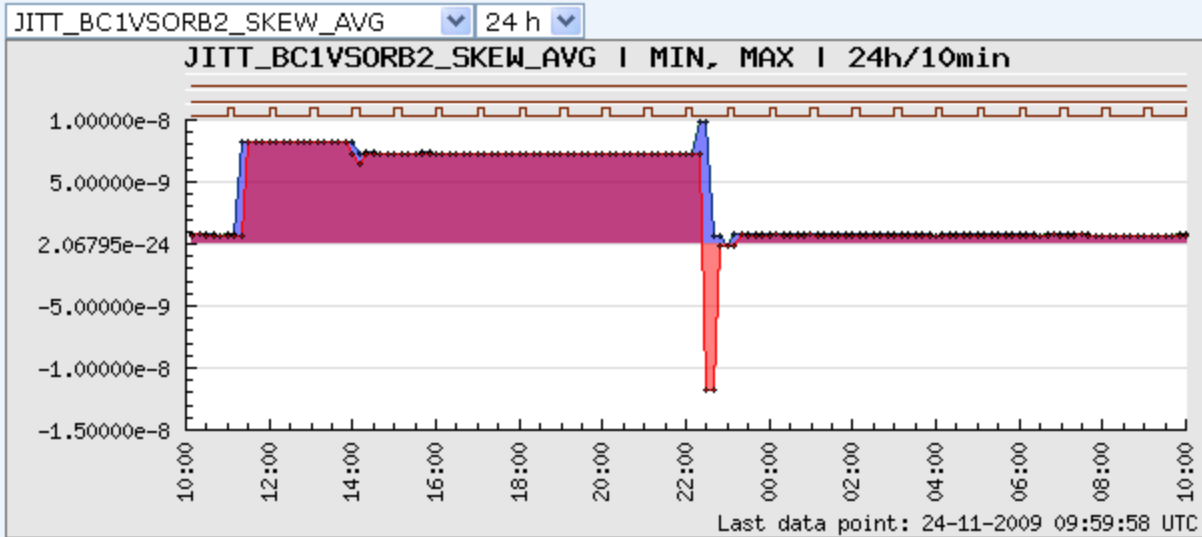
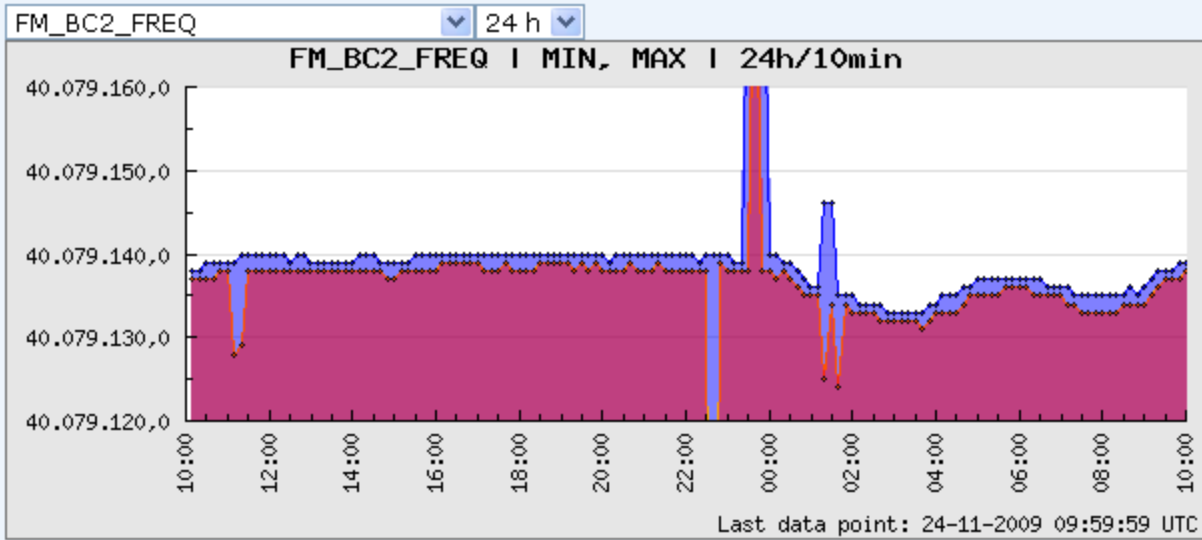
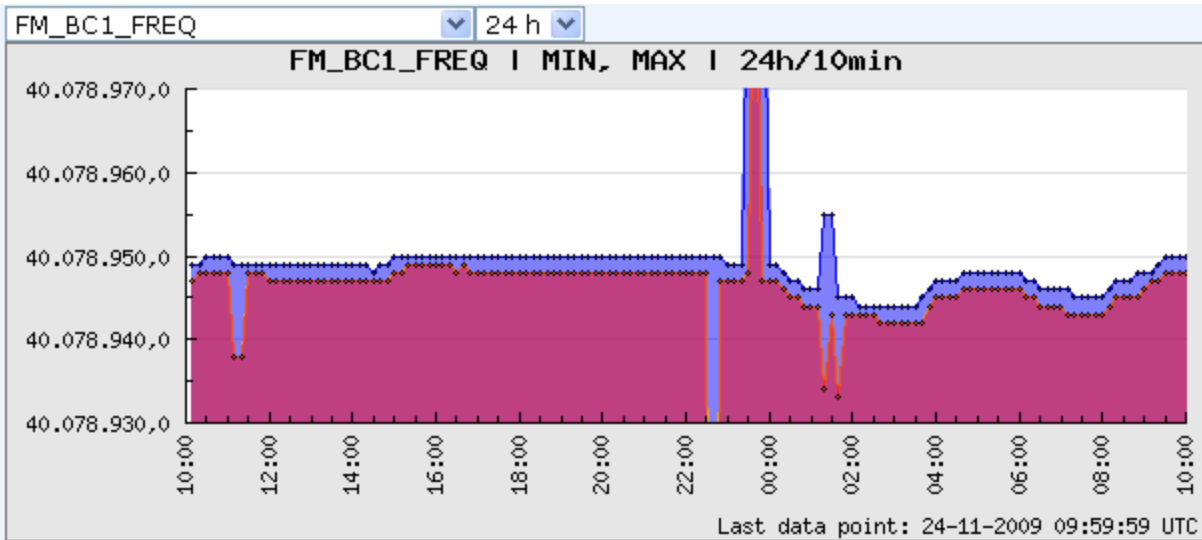


- 15:28: B2 back – few shots then no beam until 0:00 (LBDS, QPS, Linac)
- 16:22: Exp in local clocks
- 17:15: exp back in external clock
- 18:12-18:46: exp in local clocks (couple of resync because of some firmware updates)
- 19:23:exp back on local
- 19:35-44: both beams are synchronized back to B2 400.788966 (Dump triggered by RF rephrasing)
- 0:00: 4 shots of circ&dump (max 2s of beam)
- 1:00: exp back on local. We changed the cogging value as it appeared that we went on the wrong way.
- 2:00 leave the SR4 (and beam back at 2:15!!)
- 5:26 150Hz trim for dispersion test dumped the beam and unlocked the phase loop
- 9:35: exp in local
- 9:51 RF resync
- 10:00: start of capture B2

Details on clocks resync

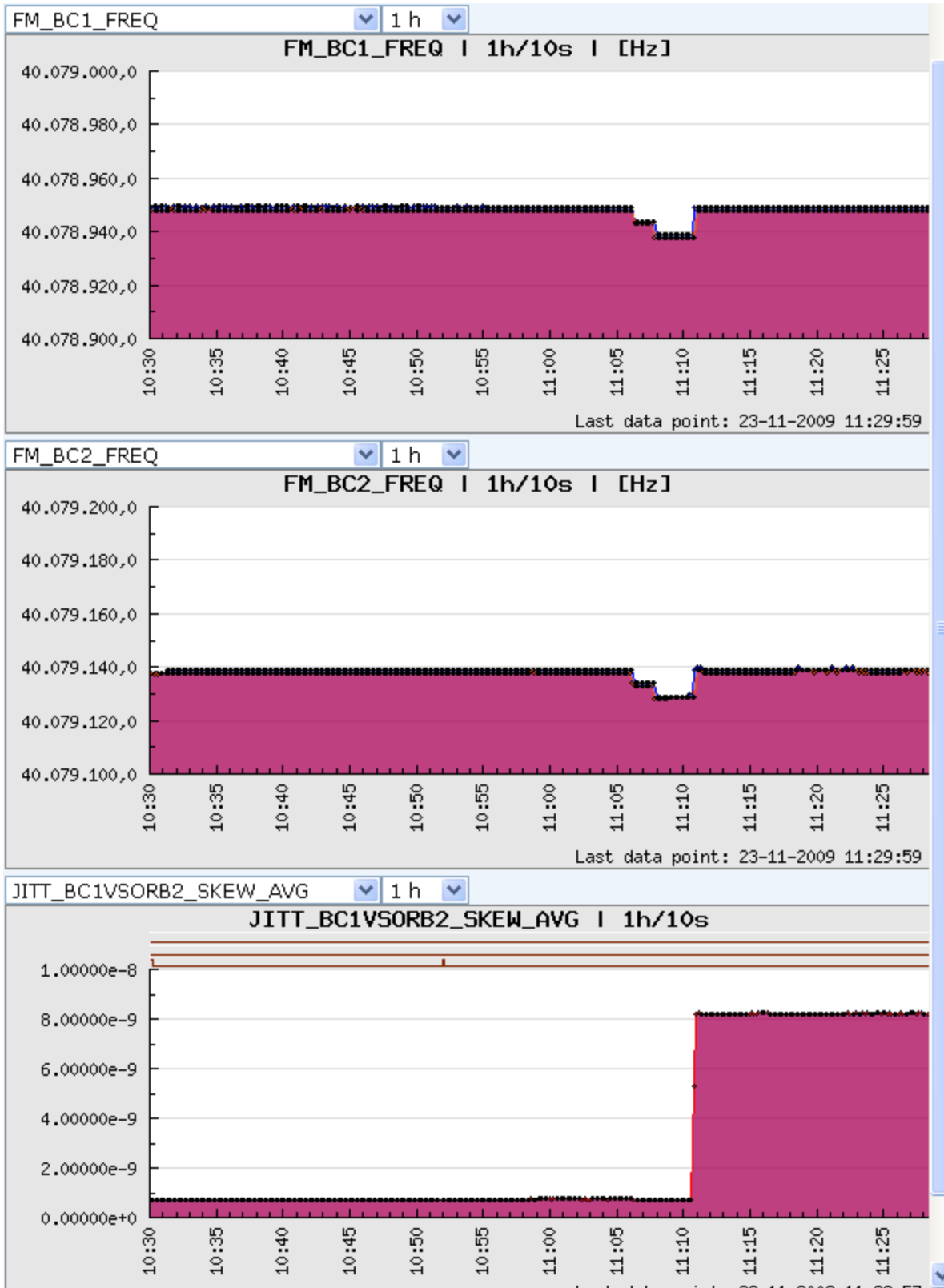


Monday 23.11.09 (10h) - Tuesday 24.11.09 (10h)

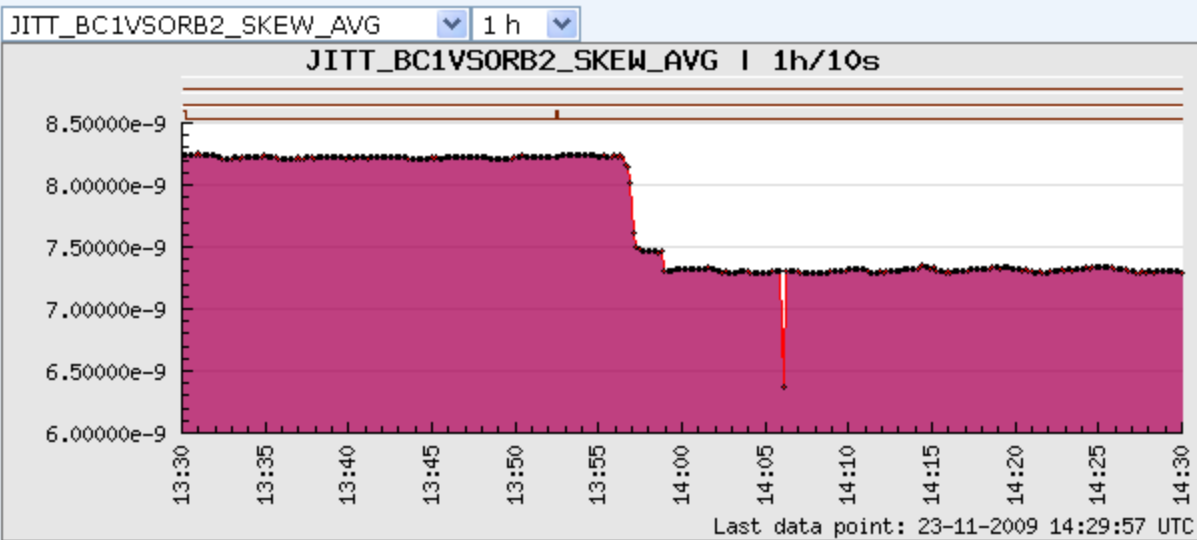
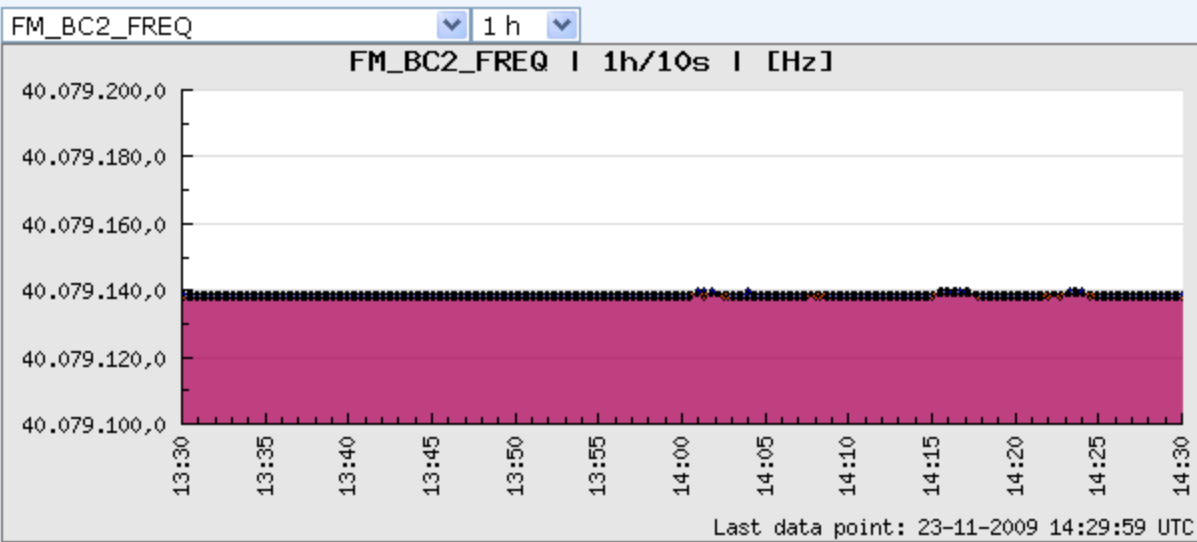
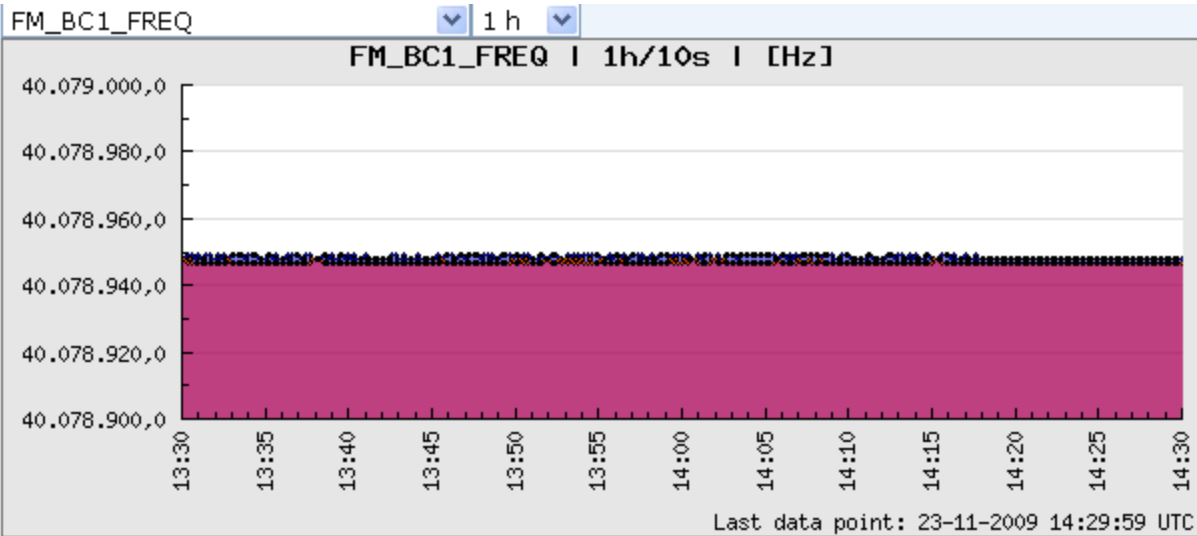


- 11:00 circulating B2 for lifetime meas
- 12:10 ???
- 13:24: 2 circulating beams both in bucket 1
- 14:50: fine tune of the phase via 2 plps
- 15:00: +-25ns phase jump (mistake)
- 15:30-19:30: collisions
- 22:33: RF off to debunch beams
- 22:49: RF back on
- 23:35: exp on local clock
- 23:48: exp back to RF clock
- 00:15: starting ramp on B1
- 1:25: ramp on B2?
- 3:03: -100Hz and +100Hz trim on B2

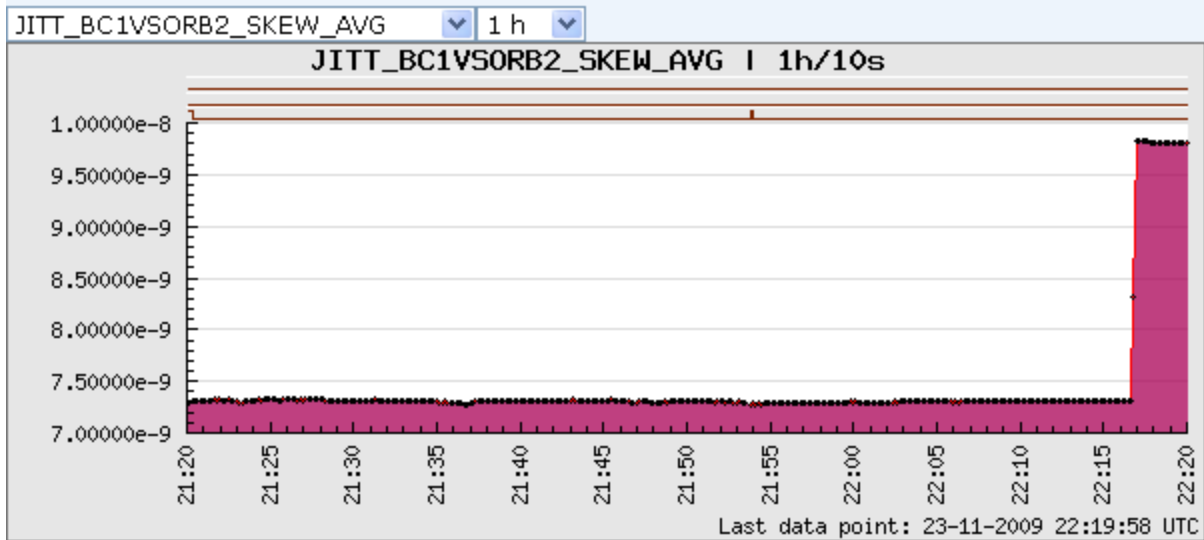
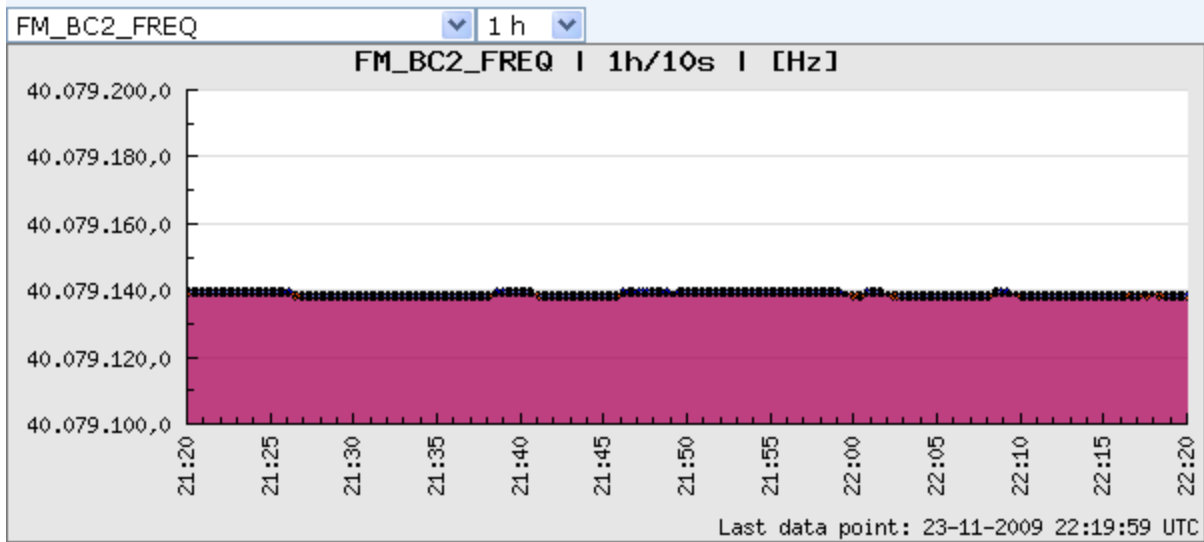
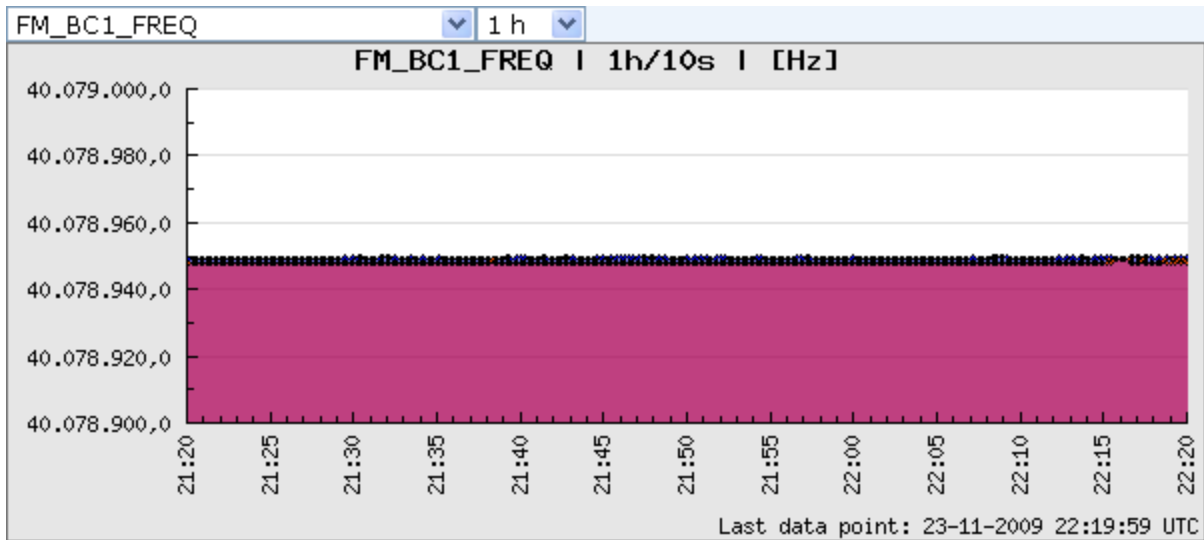
Details on rf bpm setting up 12:00 on 23.11 -> changed the phase by



Detail on RF fine adjust:



Details on phase jump @ 23:17:

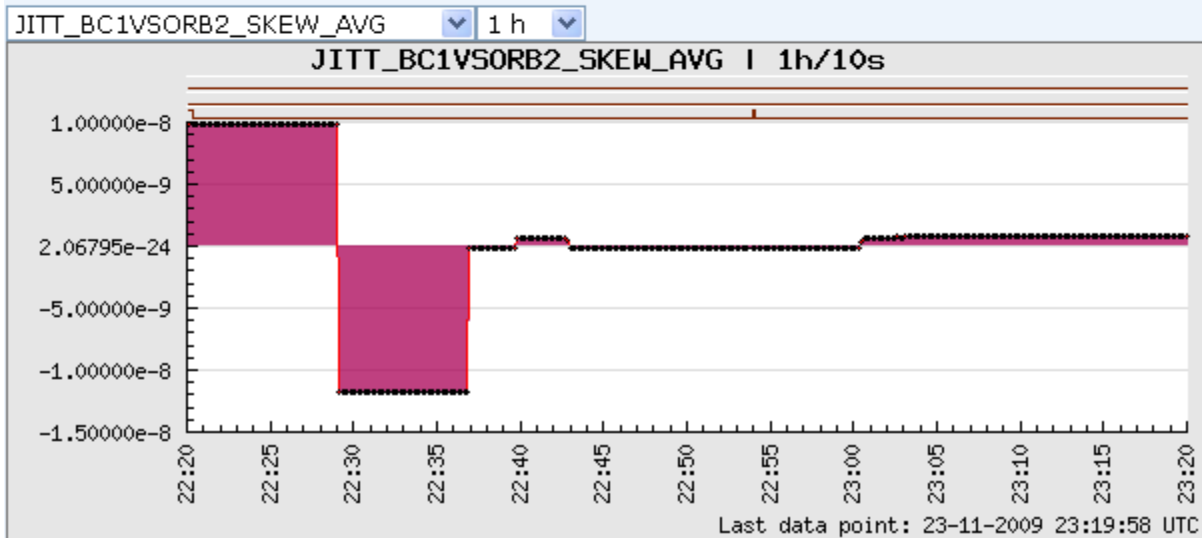
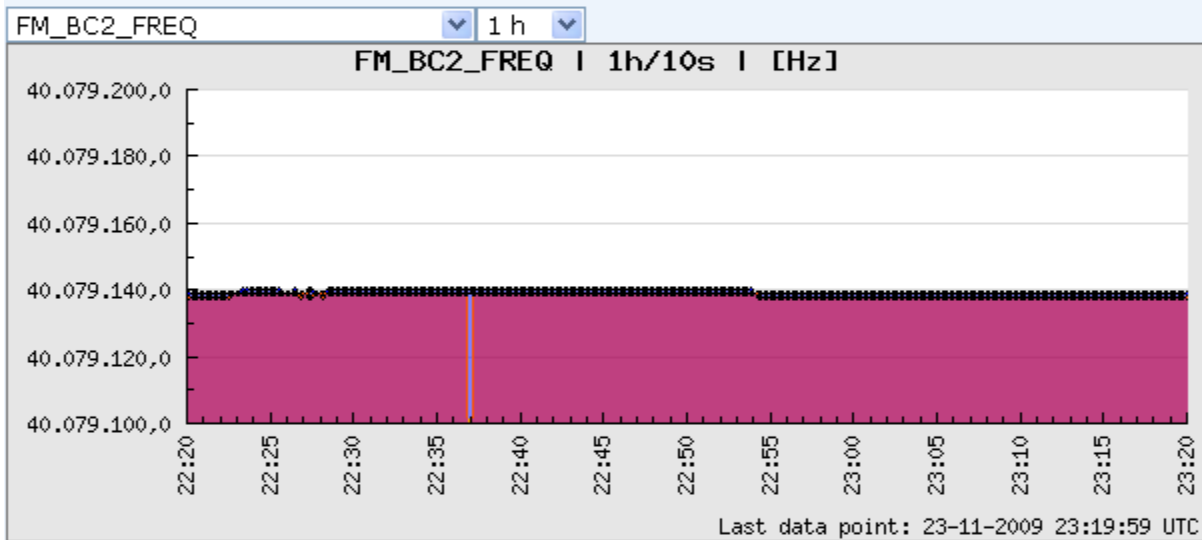
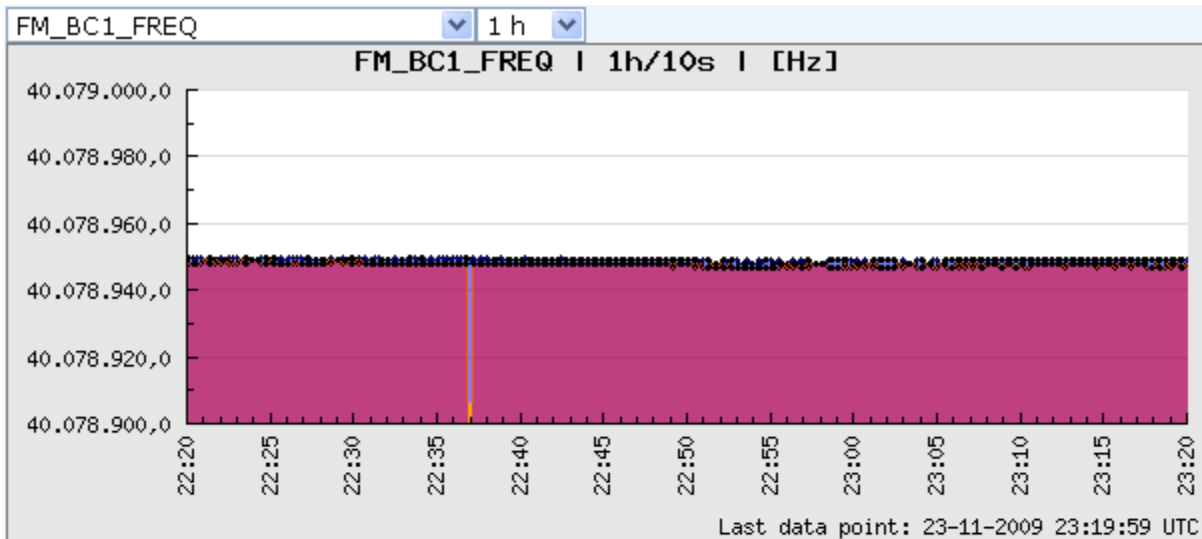


23-11-2009 22:16:523-11-2009 22:16:581259014618NORMAL9.82339e-99.82339e-920 340

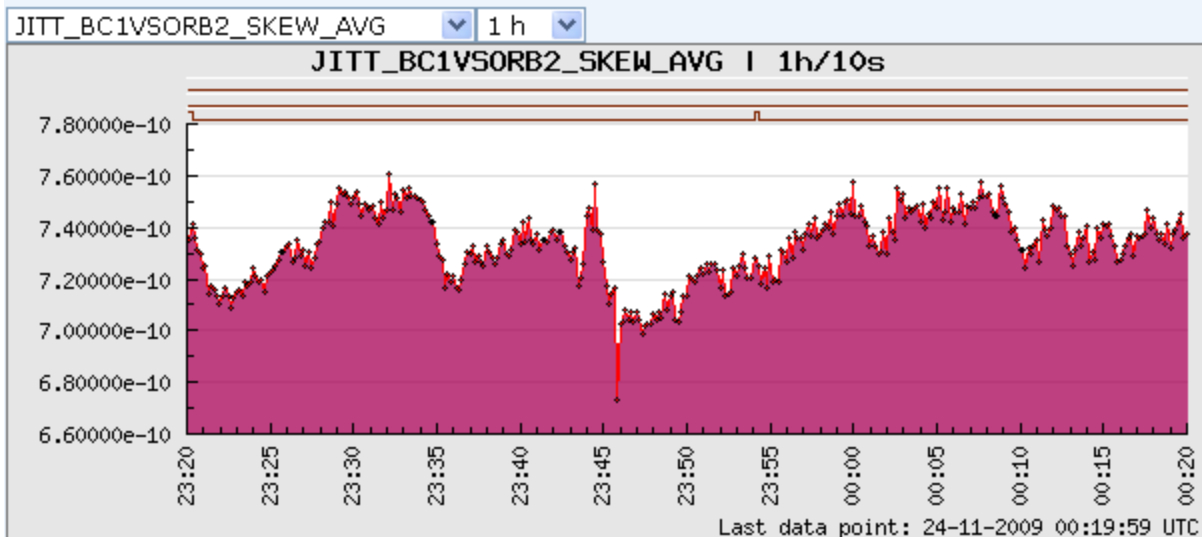
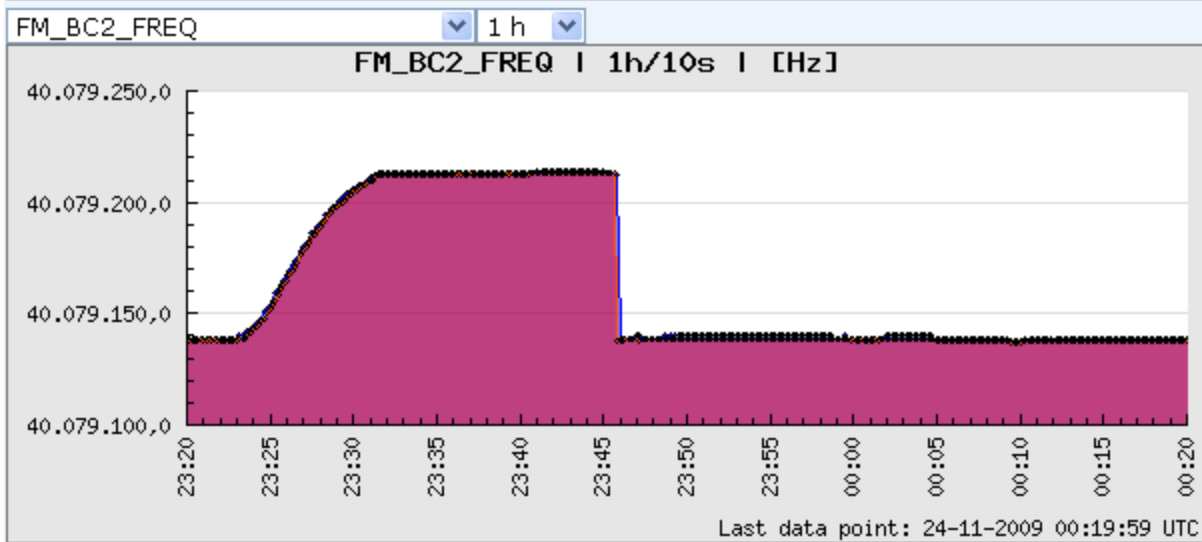
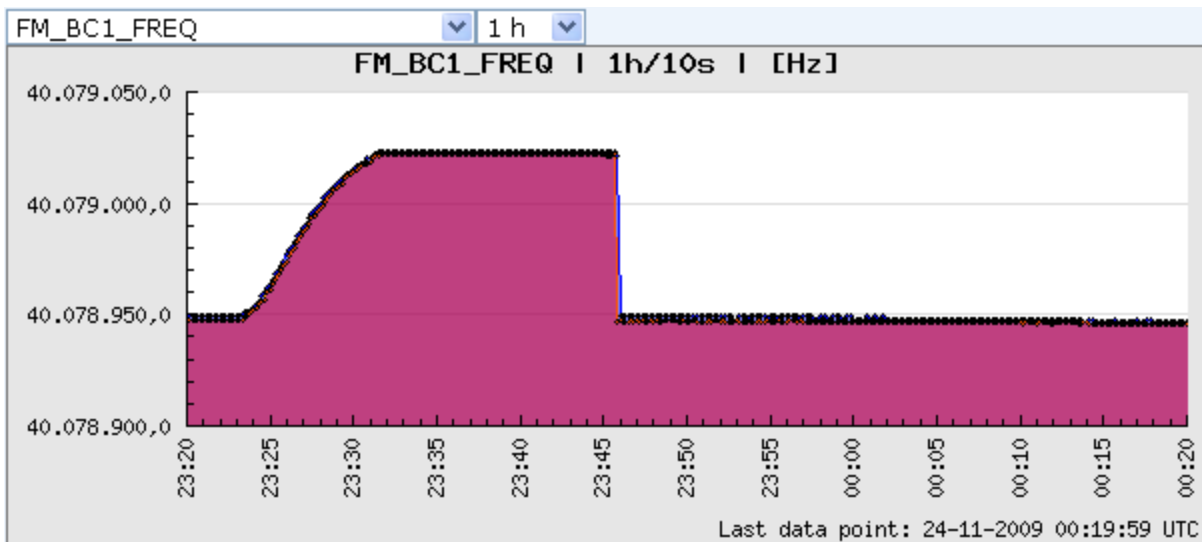
23-11-2009 22:16:423-11-2009 22:16:481259014608NORMAL8.30997e-98.30997e-920 339

23-11-2009 22:16:323-11-2009 22:16:381259014598NORMAL7.31057e-97.31057e-9

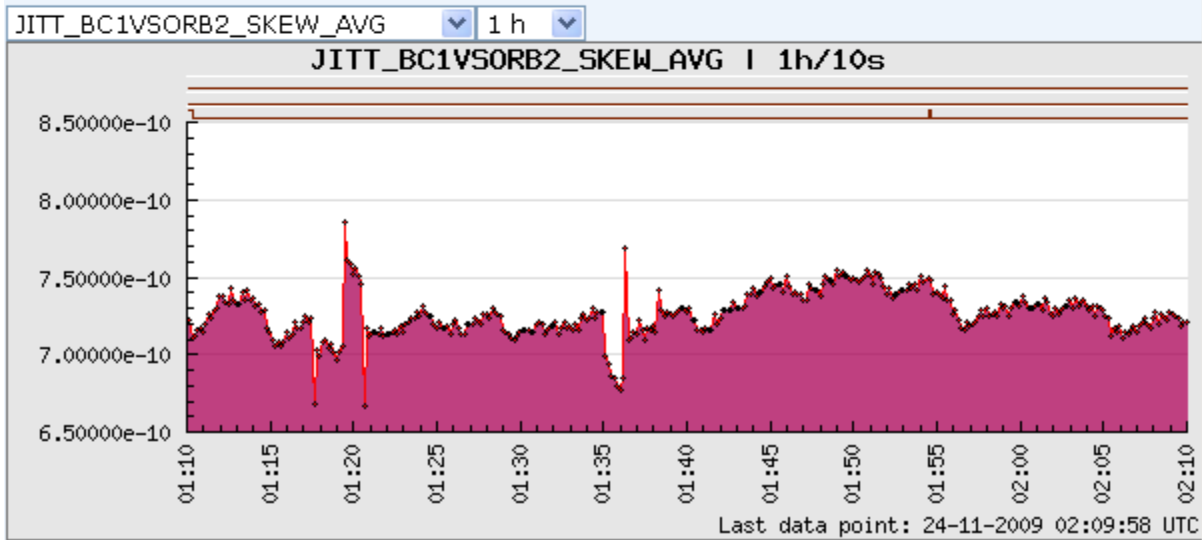
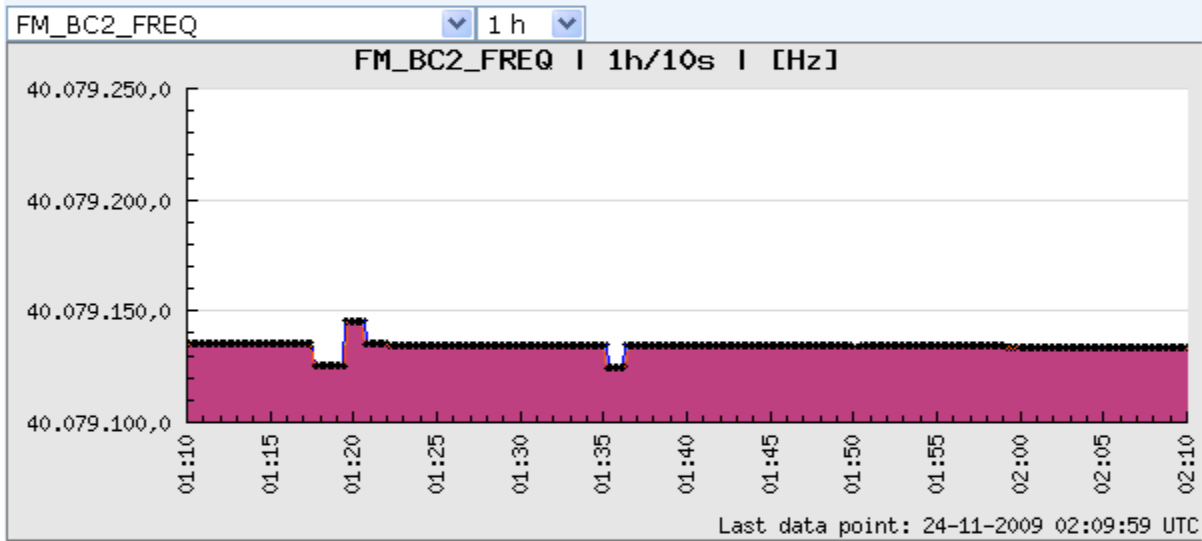
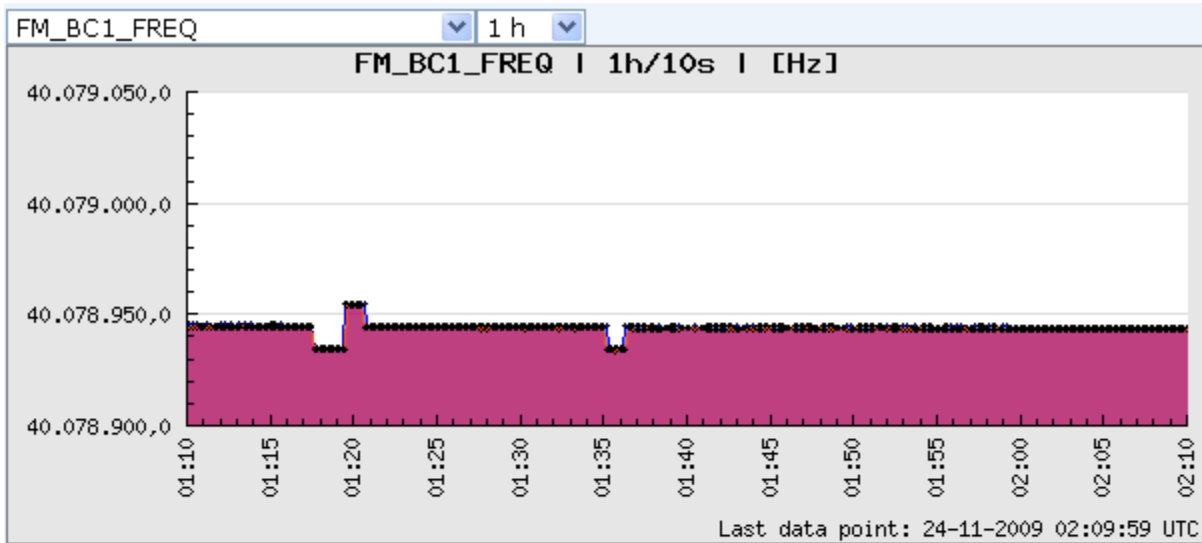
Details on impact of collimators tests on the RF



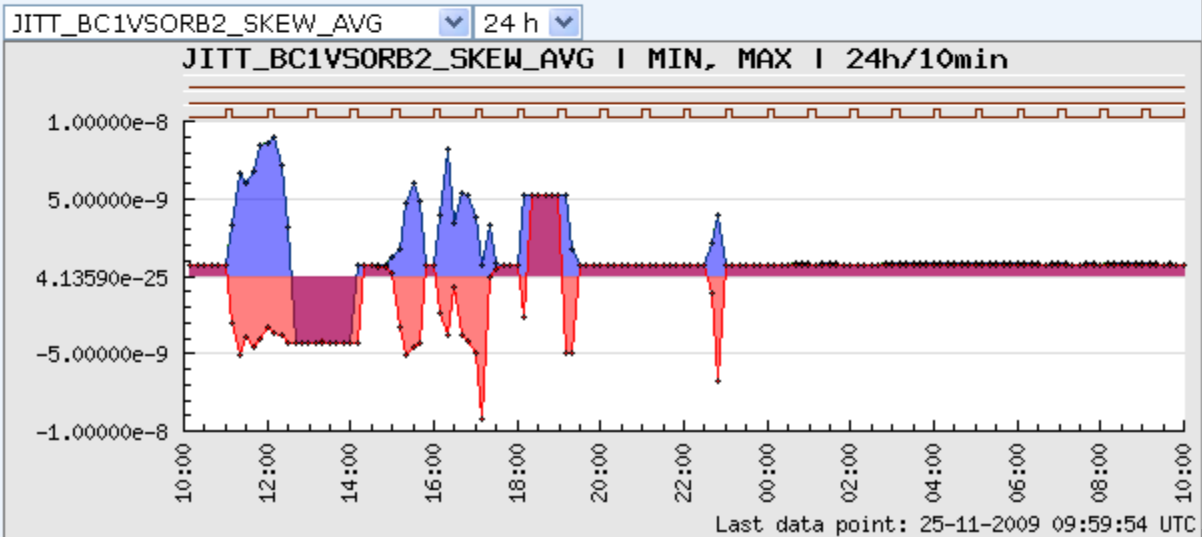
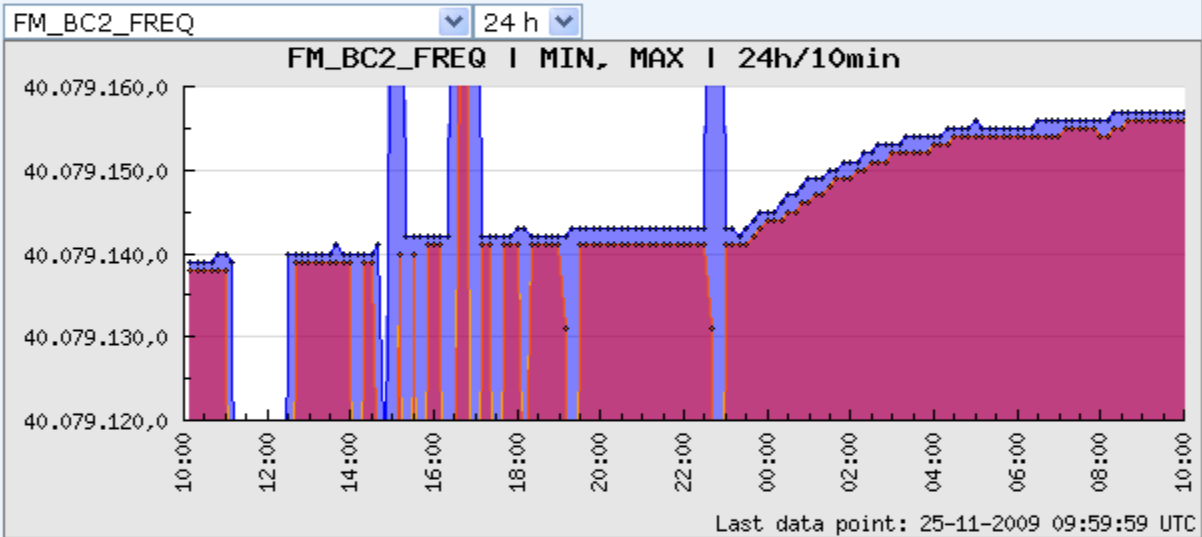
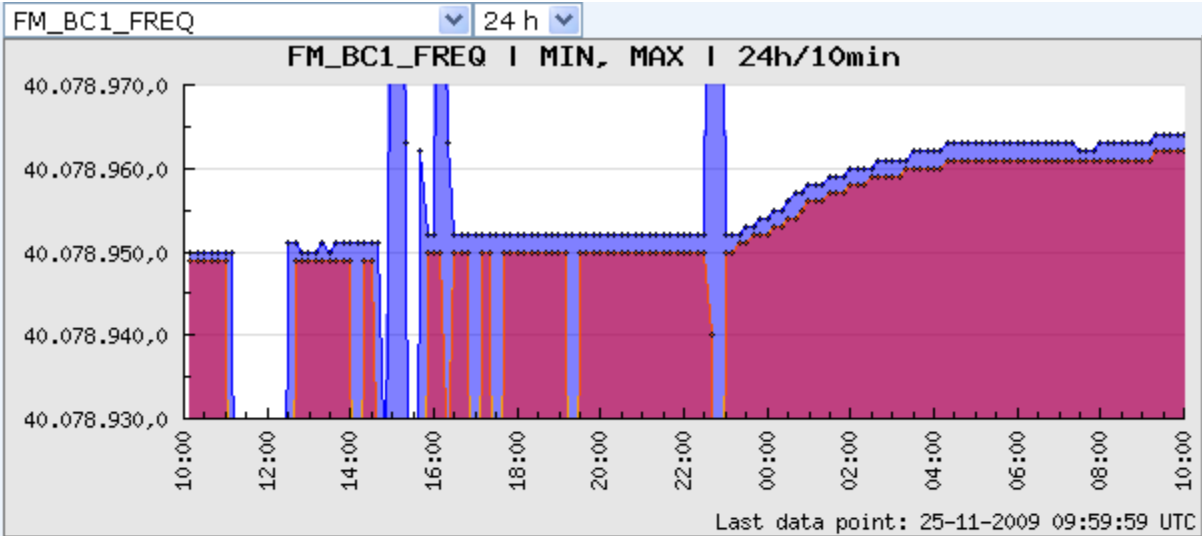
Details of RF ramp 24.11 – 0h30



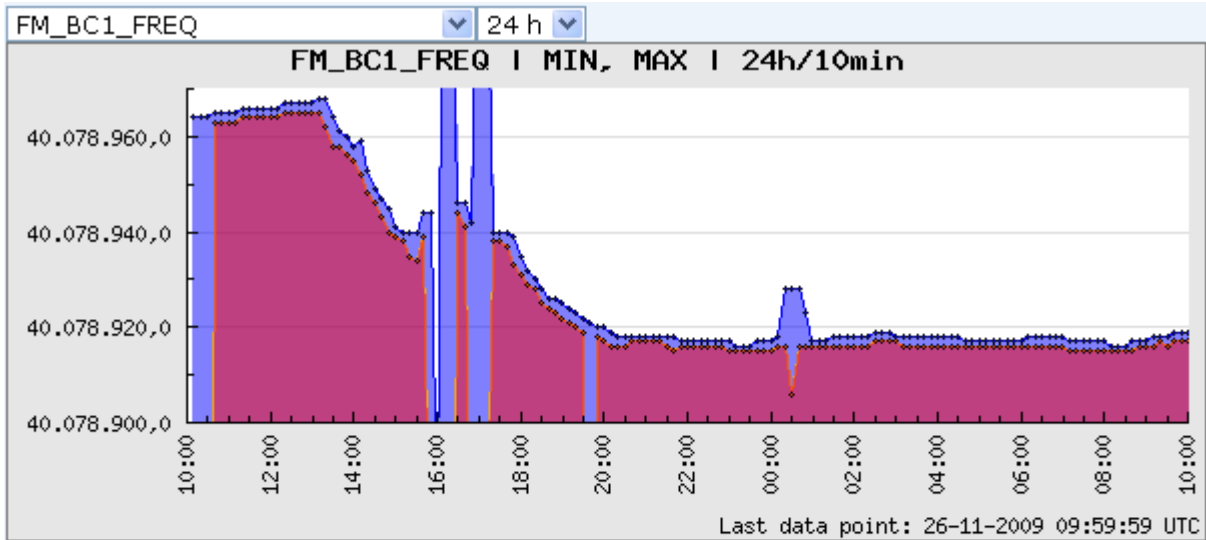
Details on chromaticity tests?



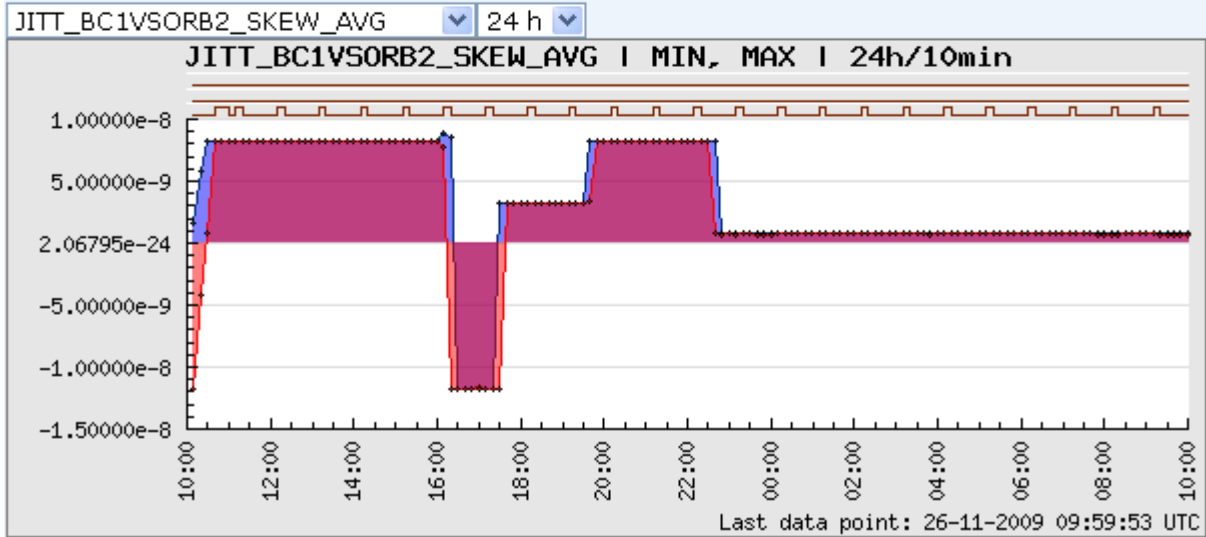
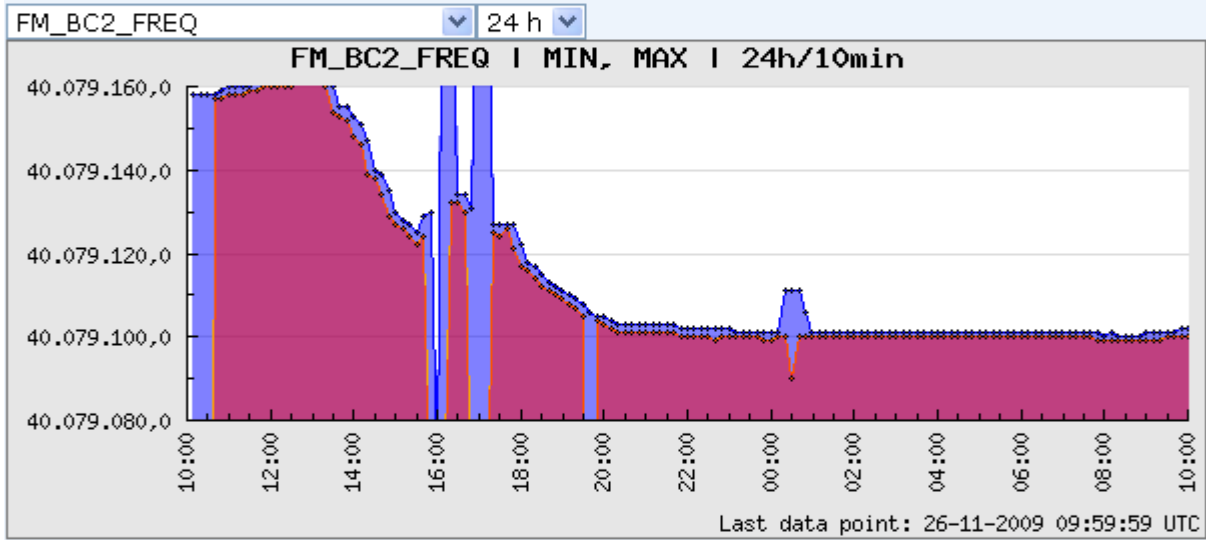
Tuesday 24.11.09 (10h) - Wednesday 25.11.09 (10h)



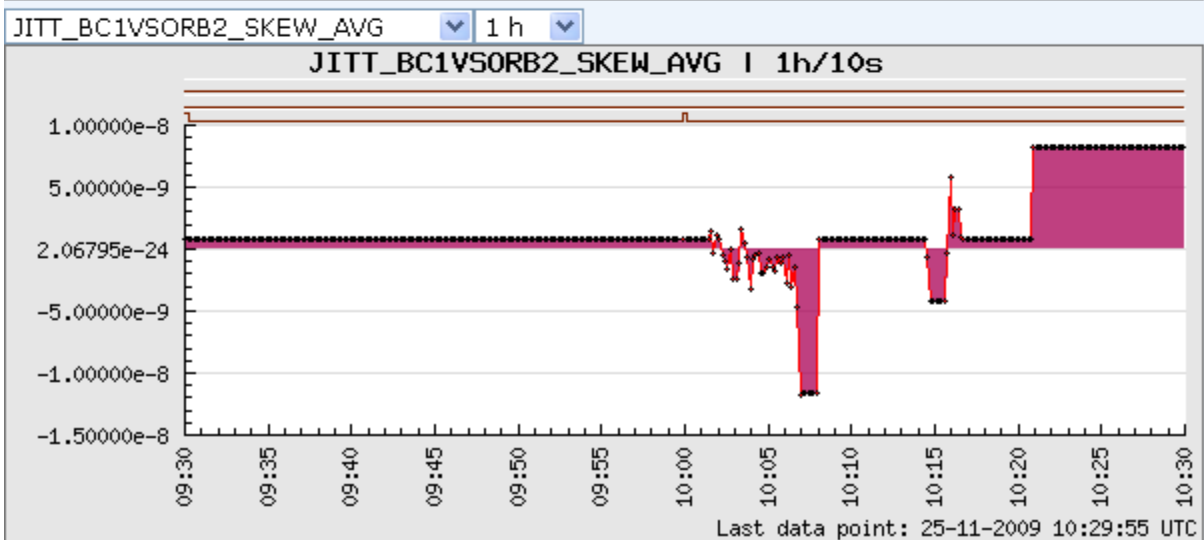
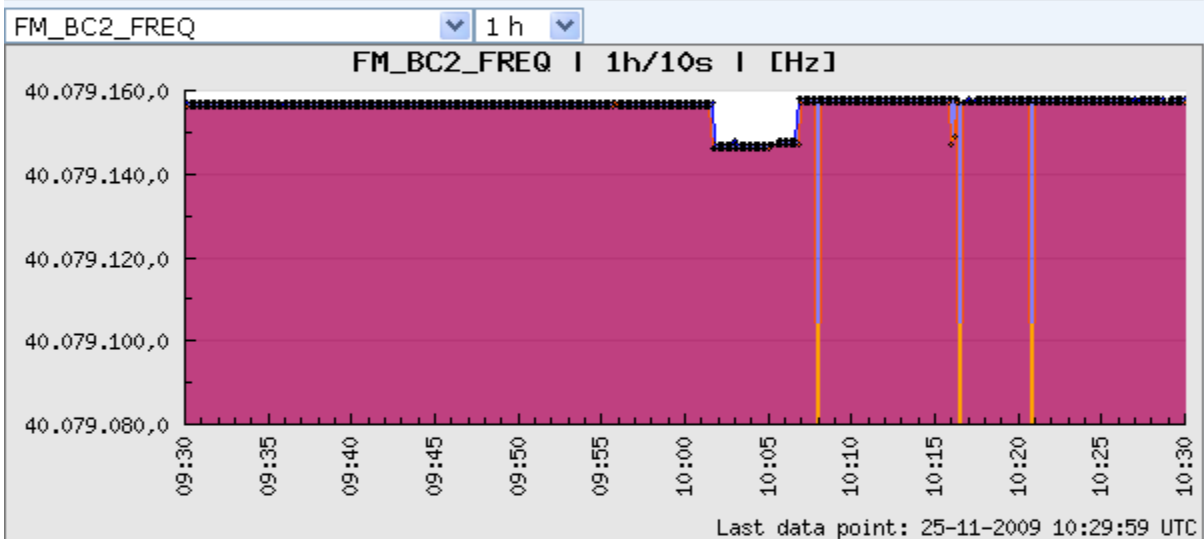
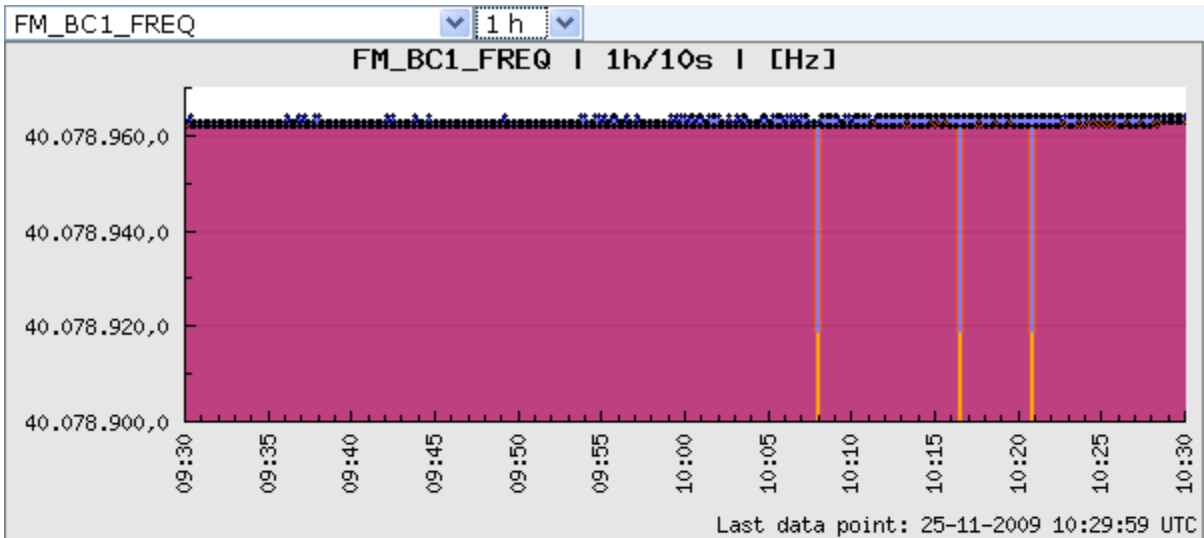
Wednesday 25.11.09 (10h) - Thursday 26.11.09 (10h)



- 11:00: rephasing to 8.22 10-9



Details du rephasing du 25.11 a 11:00



Thursday 26.11.09 (10h)- Friday 27.11.09 (10h)

