Successfully tested GAB and Front end system in Lab

Date of Testing : 5th September 2014 to 23rd September 2014

During September month, we have successfully tested GAB & FE sub-systems in respective Labs. The command for FE & GAB setting was sent from :

1. GUI environment – ONLINE_V2 – Rabbit MCM – FE / GAB hardware.
2. Terminal environment – ONLINE_V2 – Rabbit MCM – FE / GAB hardware.

- Front End system testing : The first level control of Front end system has been tested by interfacing Rabbit MCM with front end system hardware in FE lab. The control setting values were set by sending command to Rabbit MCM card. All changes were reflected on spectrum analyzer.

Commands tested for Front end system :

1. Frequency band	50-1420 MHZ	50-1420 MHZ
2. Solar attenuation	0 db- terminate	0 db-terminate
3. Channel	swap/unswap	swap/unswap
4. Sub band selection	subband1-subband4	subband1-subband4
5. RF	On/Off	On/Off
6. calibrator noise	Low/High/Med/ExHigh	Low/High/Med/ExHigh

- GAB System Testing : The first level control GAB system has been tested by interfacing Rabbit MCM with GAB system hardware in ABR lab. The control setting values were set by sending command to Rabbit MCM card. All changes were reflected on spectrum analyzer. The FE and GAB system group was involved in setting up GAB & FE system and successful completion of testing.

Commands tested for GAB system :

1. Reference LO	10-105 MHZ	10-105 MHZ
2. LO	600-17000 KHZ	600-17000 KHZ
3. Attenuation	10 db	10 db
4. Filter	8	8
5. LPF	0	0
6. Source	Siggen	Synthesizer
7. Signal	Antenna	Noise
8. Path	Direct	Mixer
9. Channel	1	2