

TX Output Power Calibration Procedure

- AWS RRH -

Rev	Who	Date	Contents
V1.0	JINHEE LEE	03/05/2014	Created

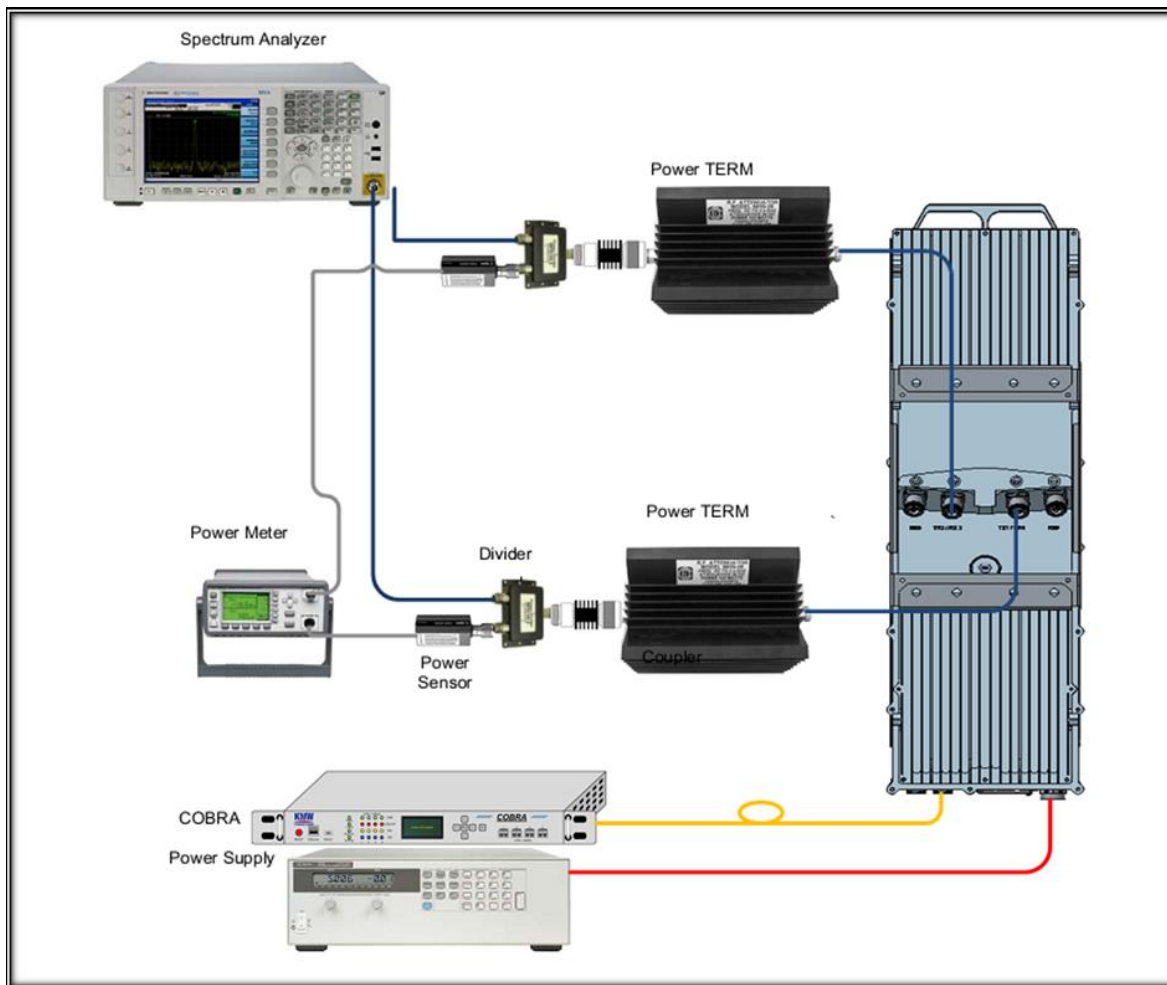
1. TX Output Power Setting (Tx Gain setting)

1.1. Test purpose: To set up TX output power.

1.2. Equipment : Power Supply(Agilent 6674A), Power Meter(Agilent E4419B), Power Sensor(Agilent E9300H), Spectrum Analyzer (Agilent N9020A), COBRA (KMW BBU simulator)

1.3. Specification : 60W (+47.8dBm@LTE 1FA)

2. Test configuration



- 2.1. Connect ANT A port to Power Meter and Spectrum Analyzer to measure the output power.
- 2.2. Connect ANT B port to RF 50 Ohm termination.
- 2.3. Set External Power Supply voltage (DC-48V) and current limit (14A).
- 2.4. Turn on the DC -48V power.
- 2.5. Set BBU simulator optic output power as -12dBfs for LTE5MHz 1FA.
- 2.6. Set AWS RRH 2132.5MHz 1 carrier configuration at ANT A path and ANT B path with GUI.
- 2.7. Set Path A digital gain as default value (-3dB) and TX A RF attenuator offset value as default value (0dB).

- 2.8. Enable ANT A Path.
- 2.9. Check ANT A Port Output power value to use Power Meter whether +47.8dBm or not.
- 2.10. If ANT A output power doesn't meet the spec (+47.8dBm), adjust the TX RF attenuator to make it +47.8dBm.
- 2.11. Disable ANT A Path.
- 2.12. Connect ANT B port to Power Meter and Spectrum Analyzer to measure the output power.
- 2.13. Connect ANT A port to RF 50 Ohm termination.
- 2.14. Set Path B digital gain as default value (-3dB) and TX B RF attenuator offset value as default value (0dB).
- 2.15. Enable ANT B Path.
- 2.16. Check ANT B Port Output power value to use Power Meter whether +47.8dBm or not.
- 2.17. If ANT B output power doesn't meet the spec (+47.8dBm), adjust the TX RF attenuator to make it +47.8dBm.
- 2.18. Disable ANT B Path