

Instrument and Equipment			Tools and Clamp		
Name	Specification	Quantity	Name	Specification	Quantity
Signal Source	E4432B	1	constant temperature searing-iron	HSLen936	1
Spectrum Analyzer	HP8594E	1	RF Cable	Φ3	some
Power	18V/4.5A	1	Multimeter	FLUKE15B	1
RF Isolator	700-2200MHz	1			
RF Attenuator	30dB100W	1			
Network Analyzer	HP8714C	1			
RF Debugger		1			

Tune up procedure

**Gain Tuning:**

We can tune the attenuation of Uplink and Downlink by setting the dip switch in order to get the gain we actually need. Each bit of one dip switch is different weighted. The relation is as following table.

Bit	Attenuation (dB)
1	1
2	2
3	4
4	8
5	16