

TWR1 Tx Adjusting Procedures

1. Test Frequency : 520~608MHz

2. VCO voltage adjustment(L/R)

Frequency set at the lowest frequency.

Adjust C18(L)/C18-1(R) to set LPF voltage . In the test point(LP-F-L/LPF-R) of the nominal value voltage $1.5V \pm 0.5V$

Frequency set at the highest frequency.

checking the LPF voltage . In the test point(LP-F-L/LPF-R) of the voltage is less than 3.5V

3. RF output checking

Connect RF output(RF-L/RF-R) to spectrum .

Checking the RF output level = +7dBm ~ +10dBm , the harmonic < -47dBm .

4. Transmission frequency adjustment

Connect RF output(RF-L/RF-R) to frequency counter .

Checking the transmission frequency= $F_0 \pm 10\text{KHz}$ at no modulation .

5. AF adjustment

Set S5 to STEREO position .

Set Audio Analyzer AF out -10dBV/1KHz then putting the AF into jack(J4-L/J5-R)

Adjust the R147(L)/R110(R) to set AF Output level , For Rx BAL out =1.46V~1.64V

Check the THD.< 1%

Check the S/N ratio > 95dB/A

Set S5 to MONO position then check the Rx BAL out = 0.72~0.82V(L/R)

6. Tone adjustment

Connect RF output(RF-L/RF-R) to spectrum .

Adjust R146(L)/R94(R) to set the TONE level = $-29 \pm 1\text{dBC}$ reference to F_0



