

Test Report No: 8712313898 **Page 7 of 83 Pages**
Title: Test on Broadband Wireless Access system:
BreezeACCESS VL 5.4 System Subscriber unit
FCC ID: LKT-VL-54

3. Test configuration:

- For Radiated emission measurements per sec. 15.407 requirements the Subscriber Unit and the Base Station Unit were configured for tests as shown in Figures 1, 2.
- For Radiated emission measurements per sec. 15.407 requirements the Radio unit was tested with two various antennas, as shown in table:

No	Name	Freq. Range [GHz]	Gain dBi	P/N or Model	Type
1	MTI (SU)	5.15 - 5.875	20	AN 1303	Integrated Flat panel antenna

Environmental evaluation and exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

Limit for power density for general population/uncontrolled exposure is 1 mW/cm2.

The power density P (mW/cm2) = Pt/4π.r2

Where:

PT - The transmitted power (EIRP) (mW)

r - The distance from the unit. (cm)

The 1(mW/cm2) limit can be calculated from the above based on the following data:

Pt = 30dBm (maximum EIRP) 1000mW

r = SQRT(1000/4π) = 8.92cm

The allowed distance “r”, where RF exposure limits may not be exceeded, is 8.92 cm from the unit antenna main lobe.

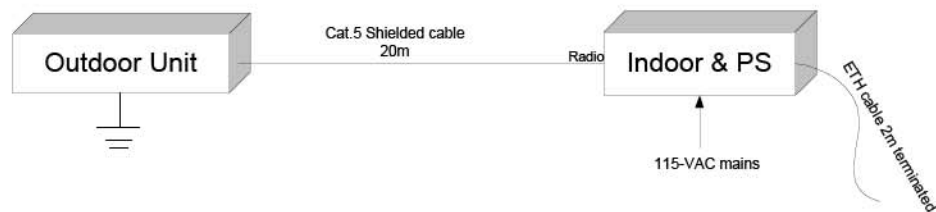


Figure 1. Subscriber Unit test setup