

## 5MHz Channel Bandwidth

## Channel 55265 (3552.5MHz)



## Channel 55900 (3625.0MHz)



## Channel 56715 (3697.5MHz)



## 10MHz Channel Bandwidth

## Channel 55290 (3555.0MHz)



## Channel 55900 (3625.0MHz)

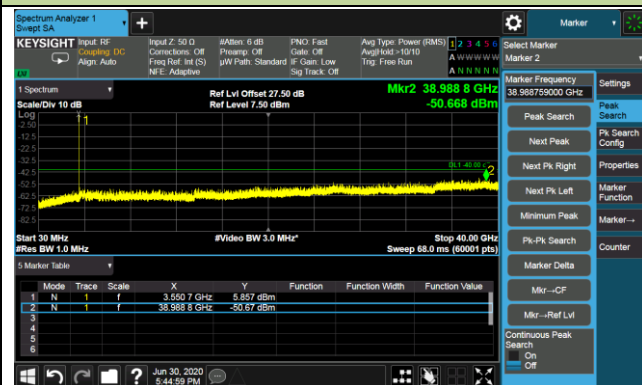


## Channel 56690 (3695.0MHz)



## 15MHz Channel Bandwidth

## Channel 55315 (3557.5MHz)



## Channel 55900 (3625.0MHz)

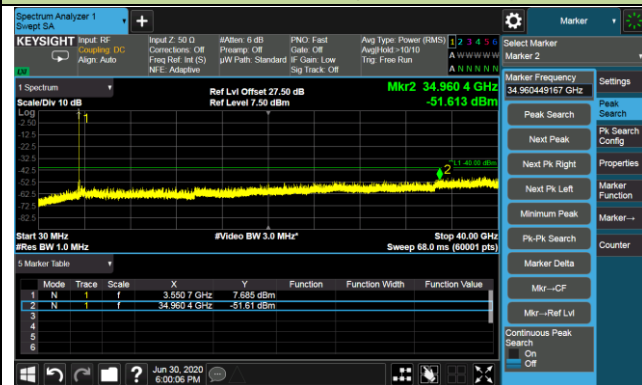


## Channel 56665 (3692.5MHz)



## 20MHz Channel Bandwidth

## Channel 55340 (3550.0MHz)



## Channel 38000 (3625.0MHz)



## Channel 56640(3690.0MHz)



## **5.7. End User Device Additional Requirement (CBSD Protocol)**

### **5.7.1. Test Limit**

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD

### **5.7.2. Test Procedure Used**

KDB 940660 D01 v02, WINNF-TS-0122 V1.0.0

### **5.7.3. Test Setting**

The EUT was connected via an RF cable to a certified CBSD (Ruckus Wireless, Inc. FCC ID: S9GQ910US00) and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification.

#### Step 1:

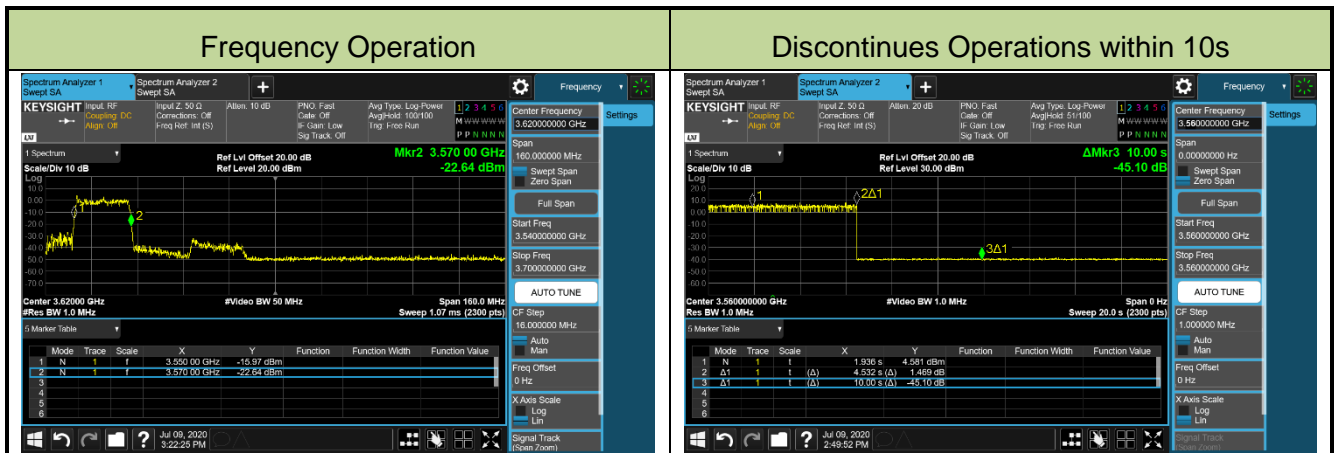
- a. Setup WINNF.PT.C.HBT.1 with 3570 ~ 3590MHz and power level at 13 dBm/MHz.
- b. Enable AP service from Ruckus LTE Cloud management.
- c. Check EUT Tx frequency and power.
- d. Disable AP service from Ruckus LTE Cloud management and check EUT stop transmission within 10s.

#### Step 2:

- a. Setup WINNF.PT.C.HBT.1 with 3670 ~ 3690MHz and power level at 8 dBm/MHz.
- b. Enable AP service from Ruckus LTE Cloud management.
- c. Check EUT Tx frequency and power.
- d. Disable AP service from Ruckus LTE Cloud management and check EUT stop transmission within 10s.

### 5.7.4. Test Result

Product	LTE-A Cat 16 M.2 Module	Temperature	25°C
Test Engineer	Larry Yan	Relative Humidity	54%
Test Site	TR3	Test Date	2020/07/09
Test Configuration	CBSD transmit at 3560MHz (20MHz BW), 13dBm/MHz		



Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

Product	LTE-A Cat 16 M.2 Module	Temperature	25°C
Test Engineer	Larry Yan	Relative Humidity	54%
Test Site	TR3	Test Date	2020/07/09
Test Configuration	CBSD transmit at 3680MHz (20MHz BW), 8dBm/MHz		



Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

## 6. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with FCC Rules.

## Appendix A - Test Setup Photograph

Refer to "2306RSU048-UT" file.

## **Appendix B - EUT Photograph**

Refer to "2306RSU048-UE" file.