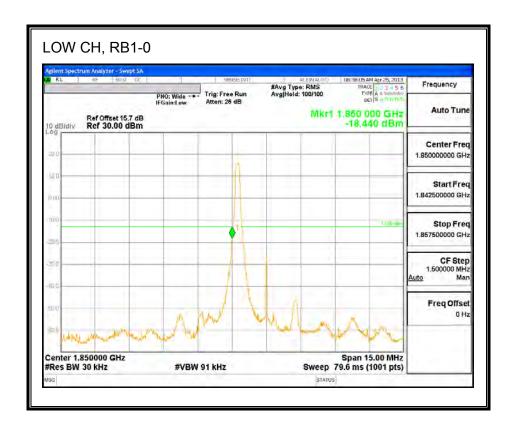
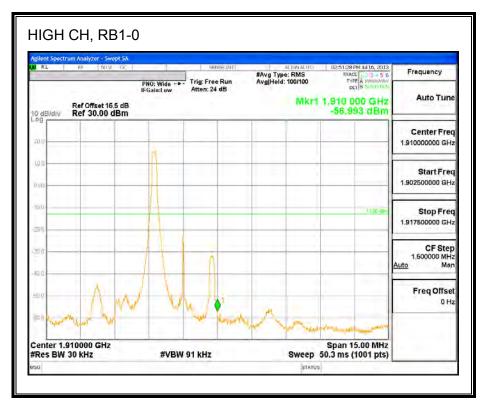
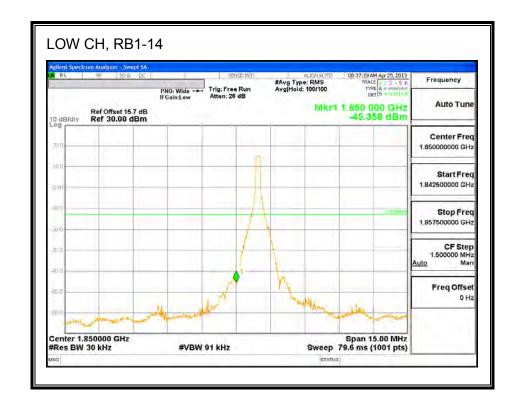


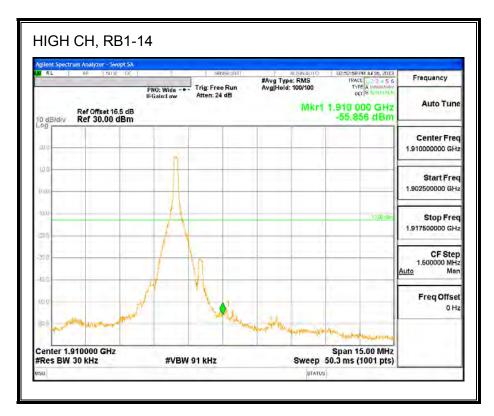
## 16QAM Band 2 (3 MHz BANDWIDTH)

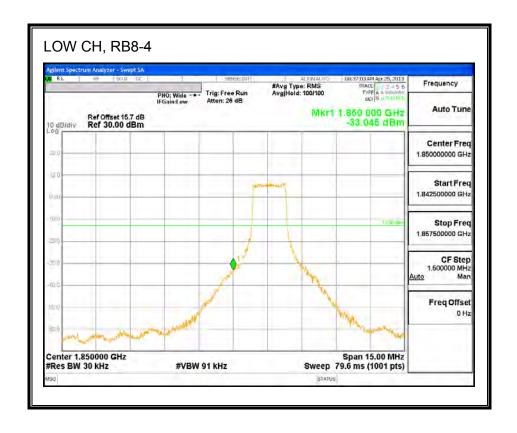


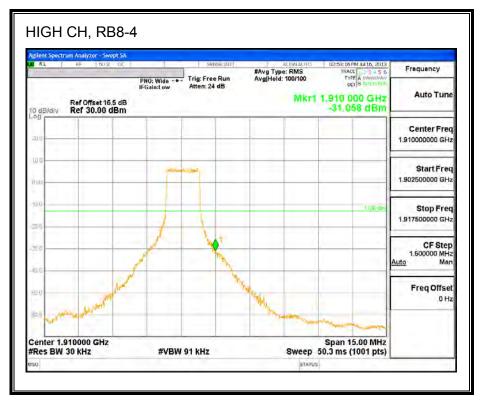


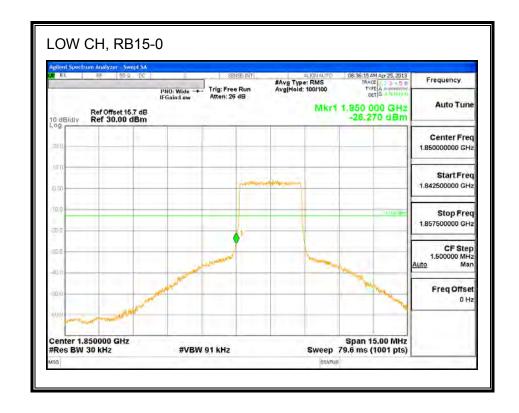
DATE: JULY 22, 2013

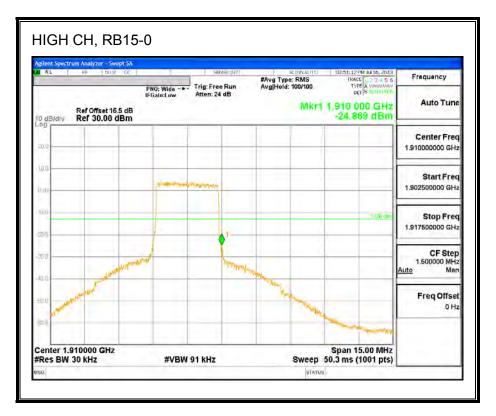




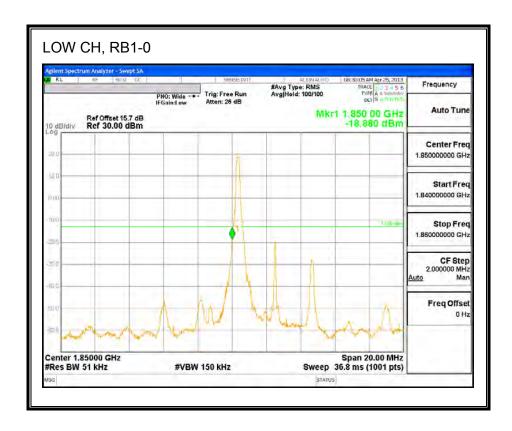


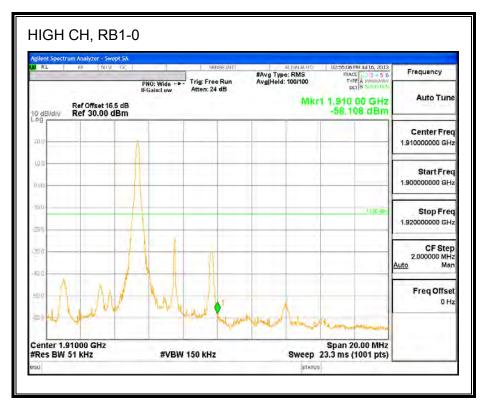




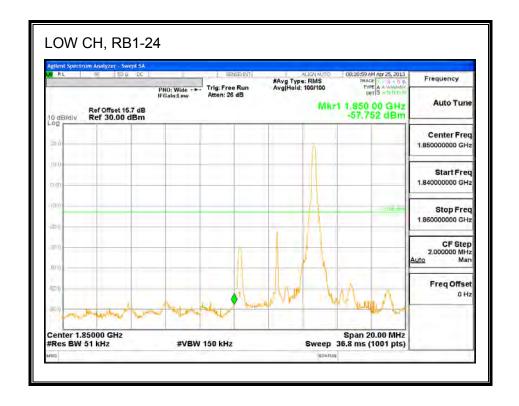


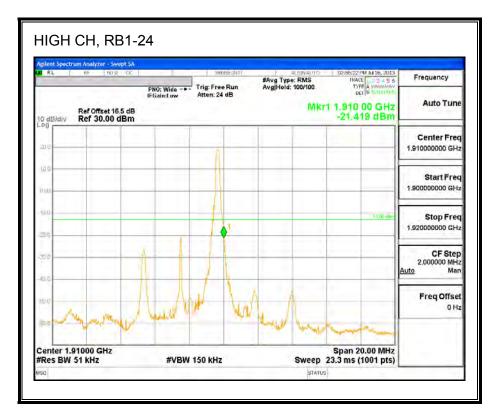
### **QPSK Band 2 (5 MHz BANDWIDTH)**

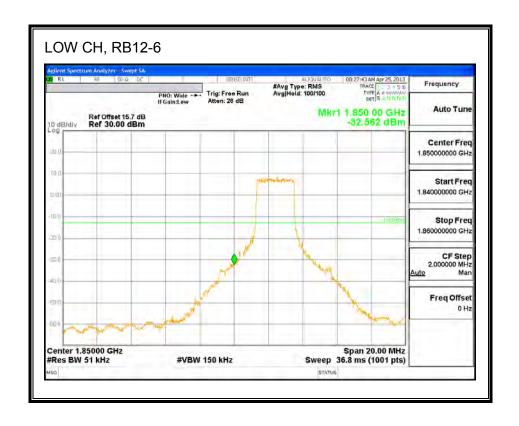


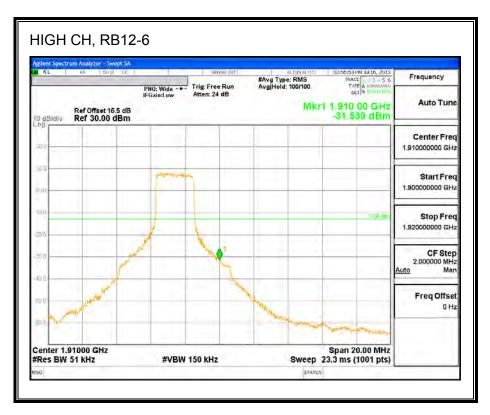


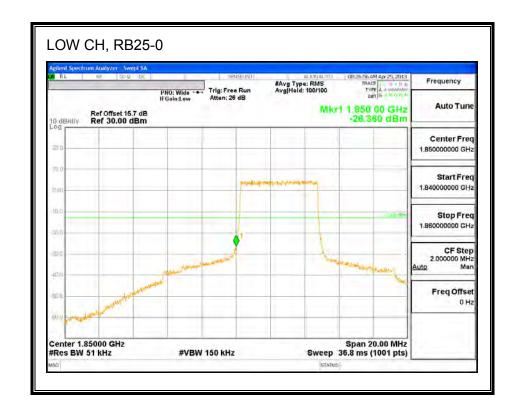
DATE: JULY 22, 2013

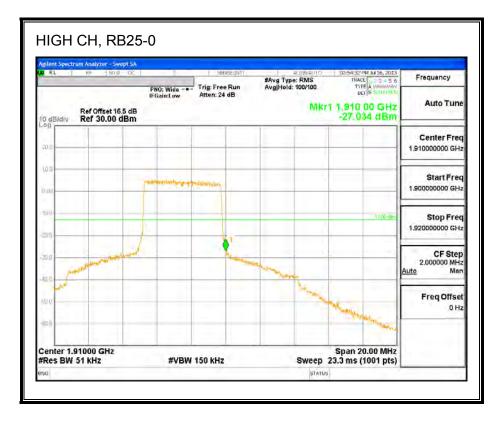




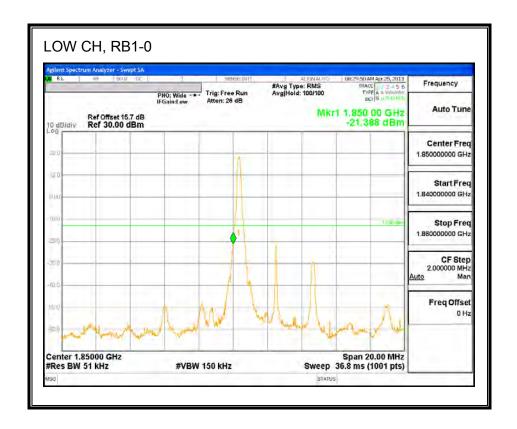


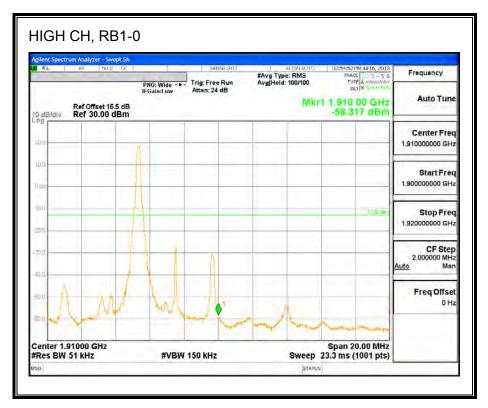




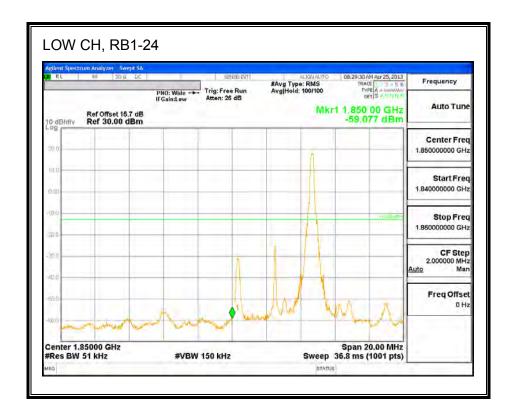


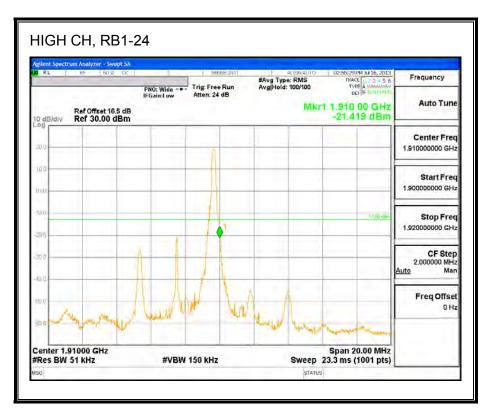
### 16QAM Band 2 (5 MHz BANDWIDTH)

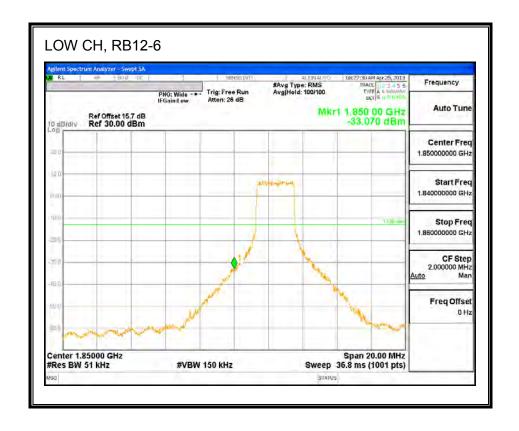


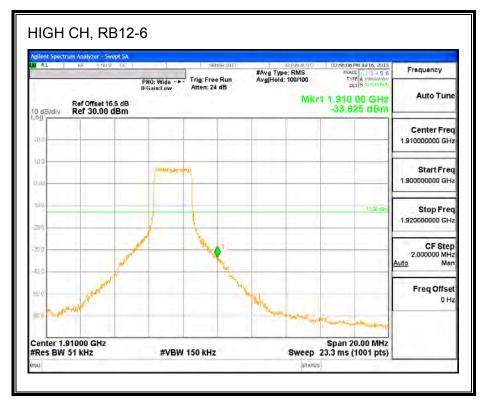


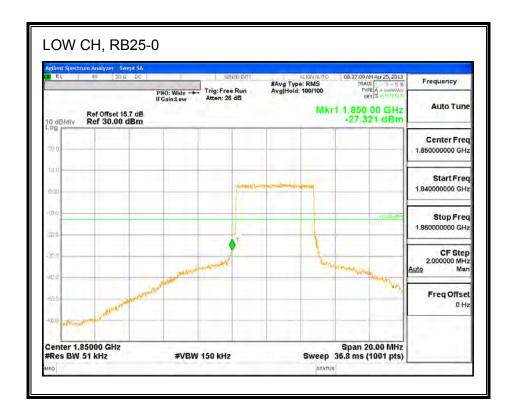
DATE: JULY 22, 2013

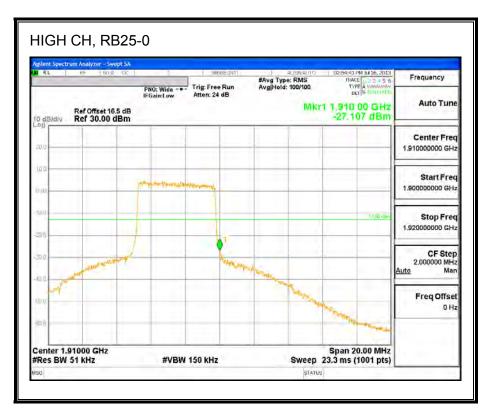




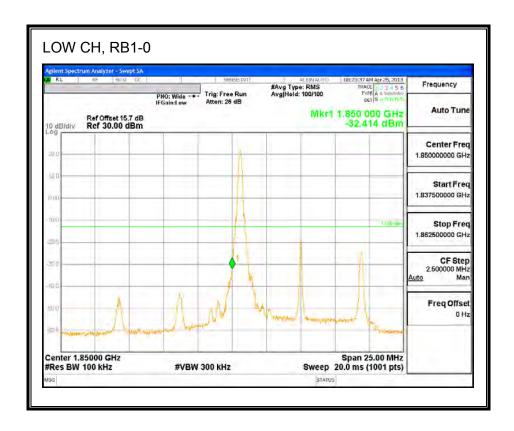


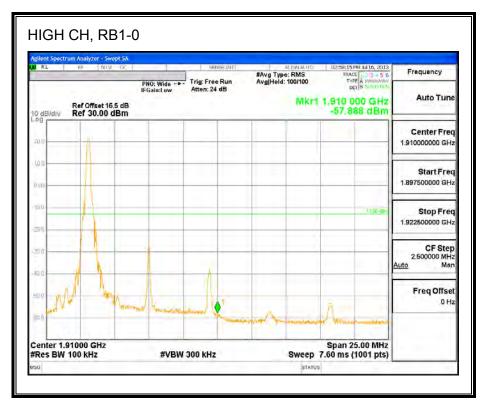




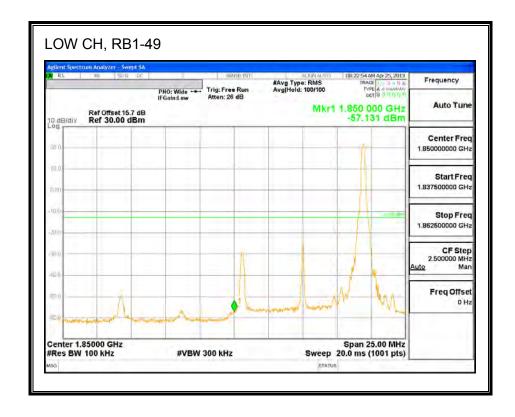


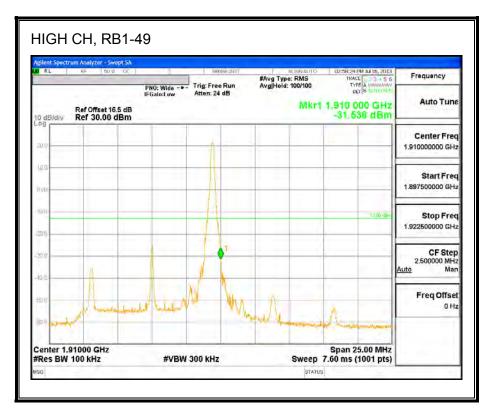
## **QPSK Band 2 (10 MHz BANDWIDTH)**

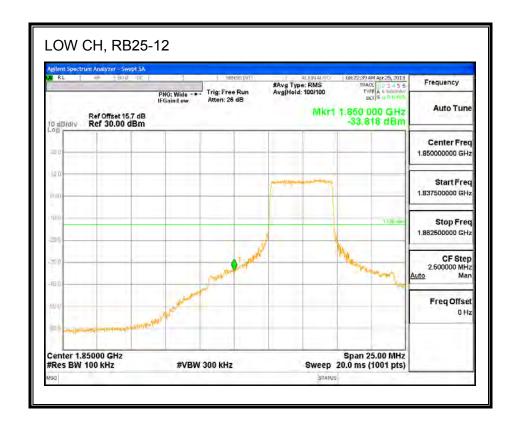


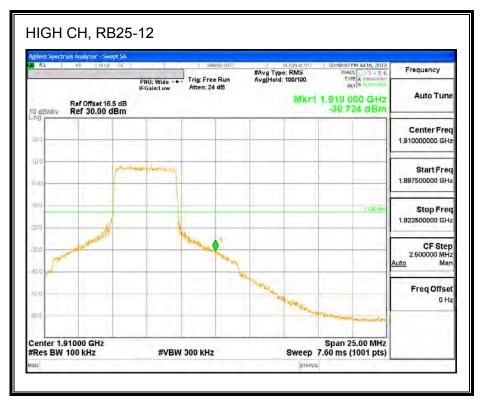


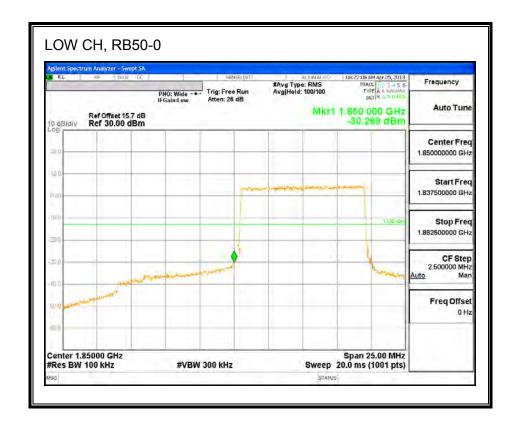
DATE: JULY 22, 2013

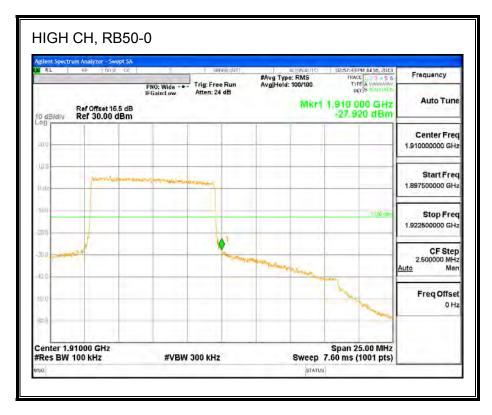




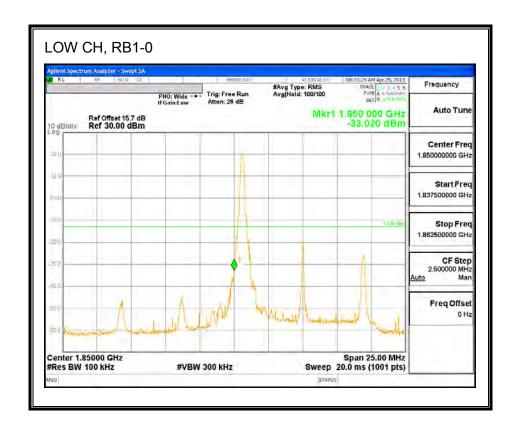


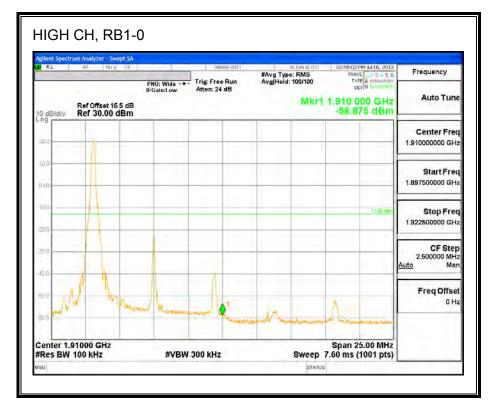




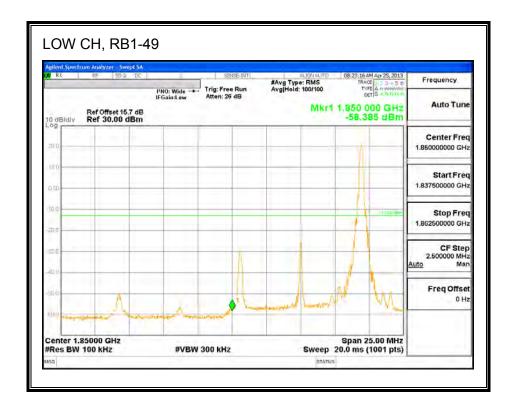


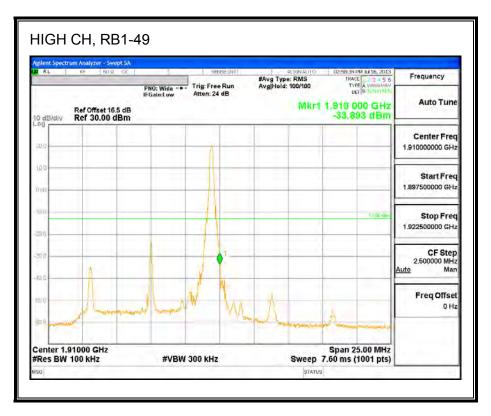
### 16QAM Band 2 (10 MHz BANDWIDTH)

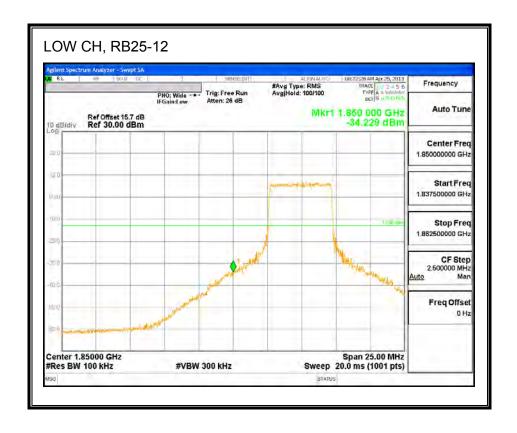


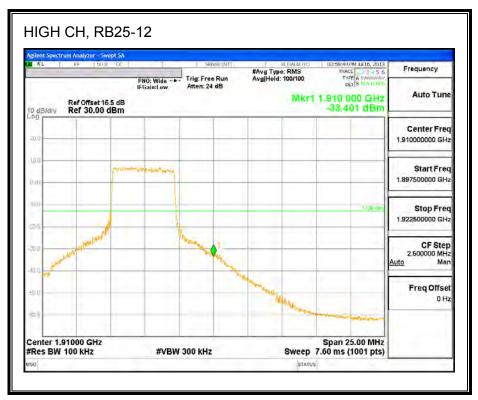


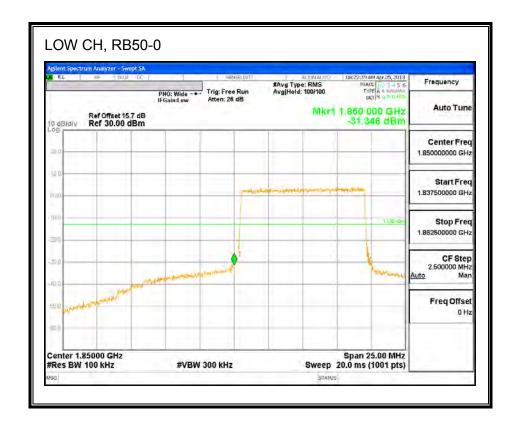
DATE: JULY 22, 2013





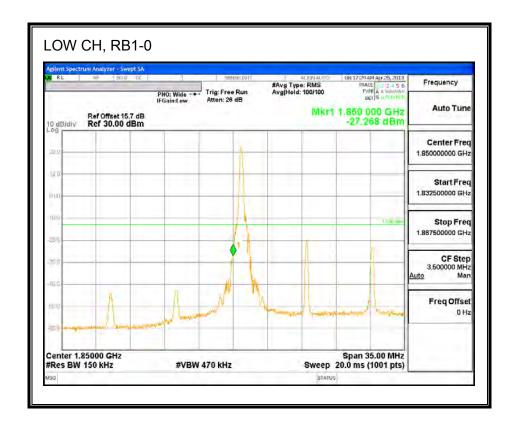


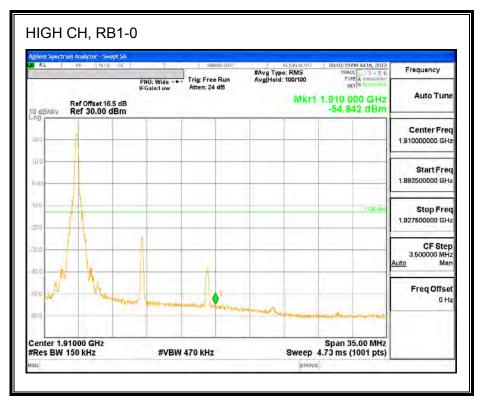




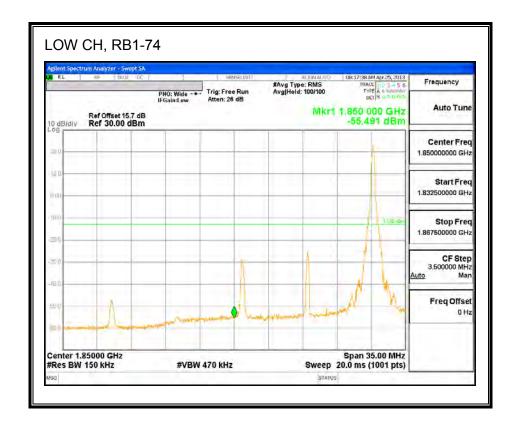


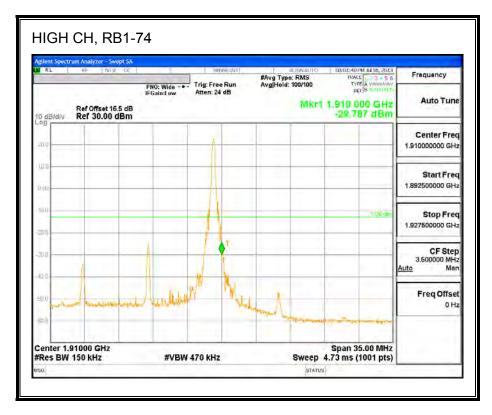
### QPSK Band 2 (15.0 MHz BAND WIDTH)

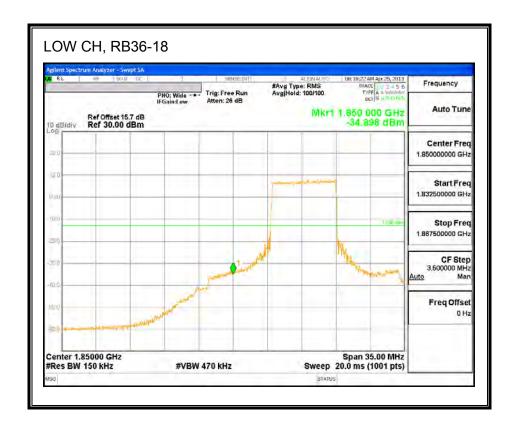


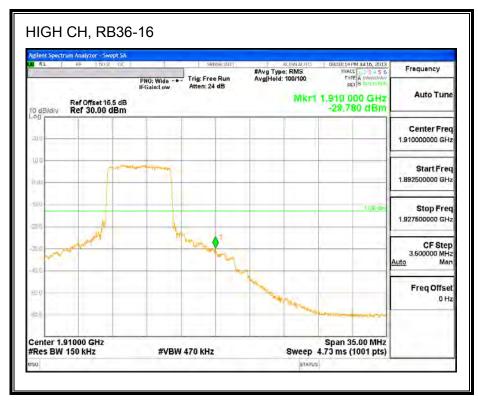


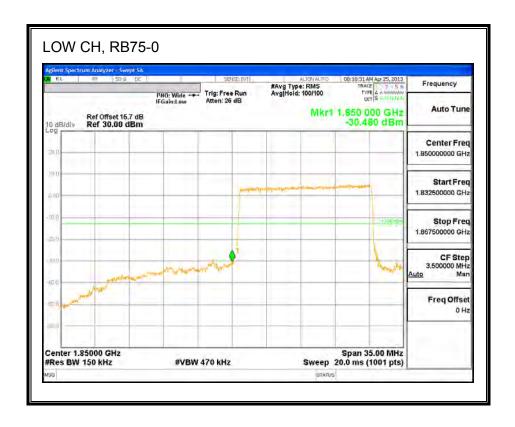
DATE: JULY 22, 2013

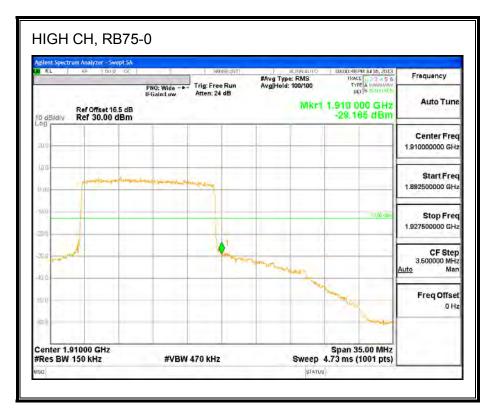




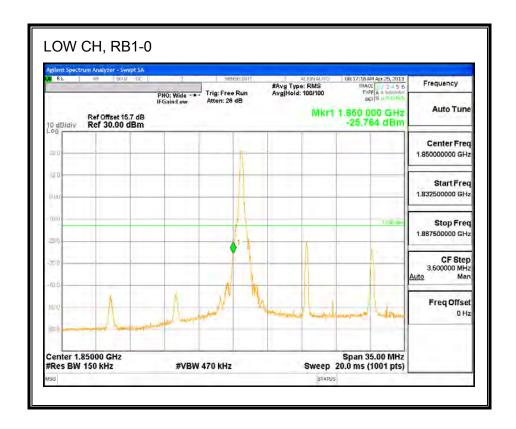


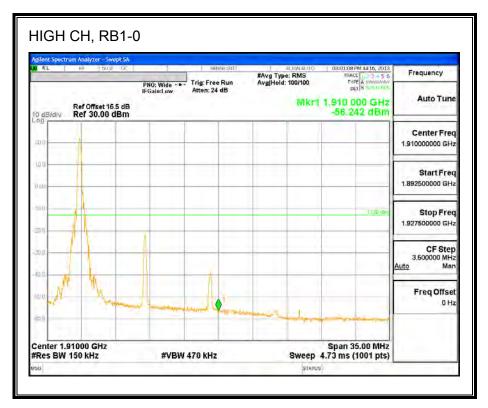




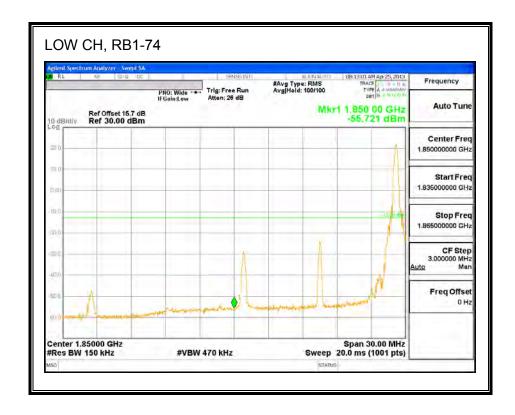


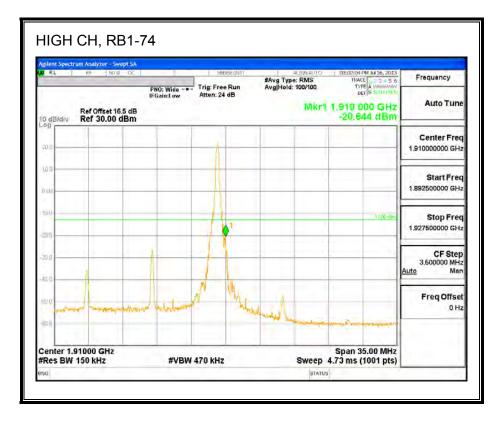
## 16QAM Band 2 (15.0 MHz BAND WIDTH)

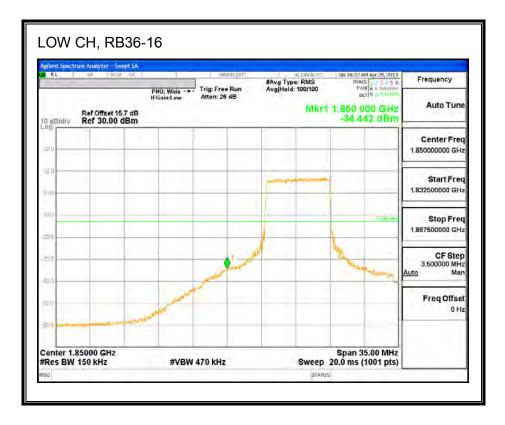


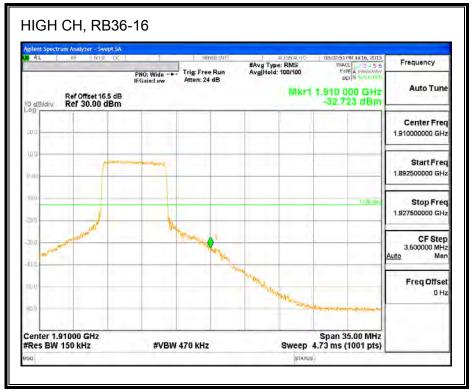


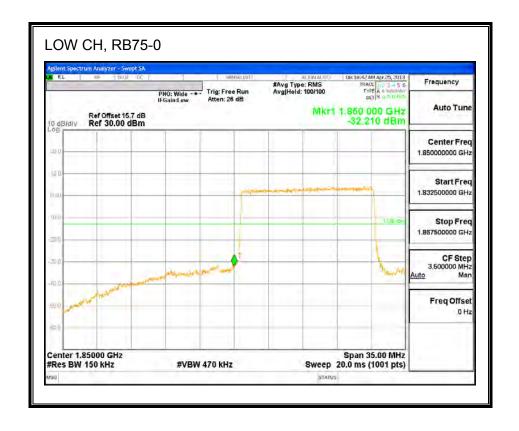
DATE: JULY 22, 2013

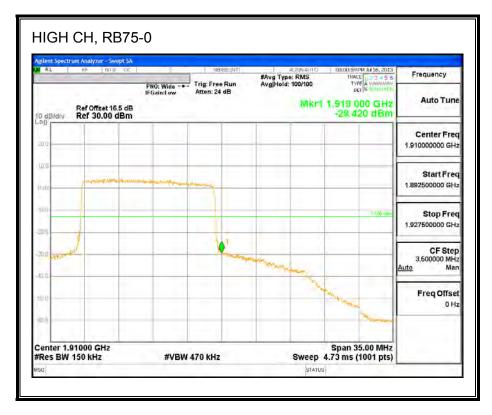




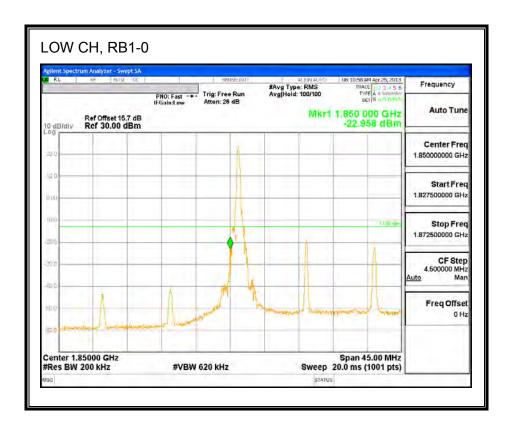


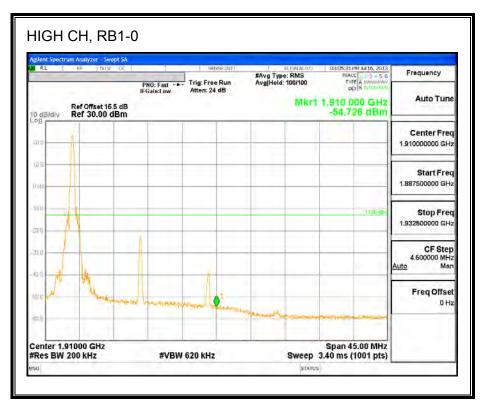




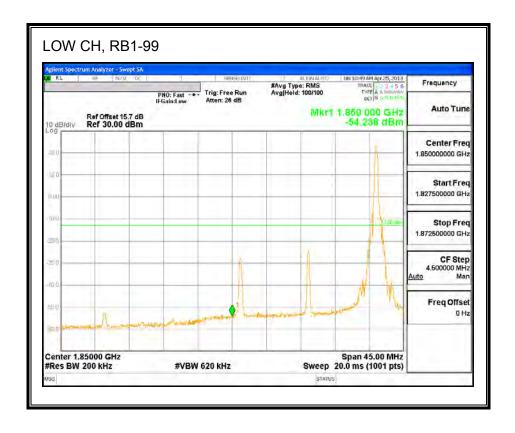


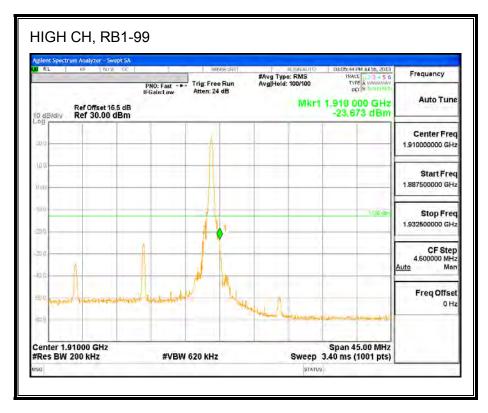
# QPSK Band 2 (20.0 MHz BAND WIDTH)

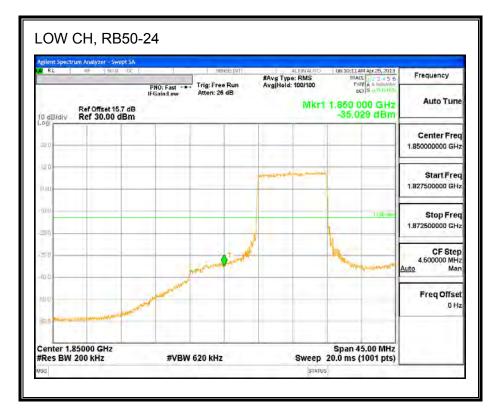


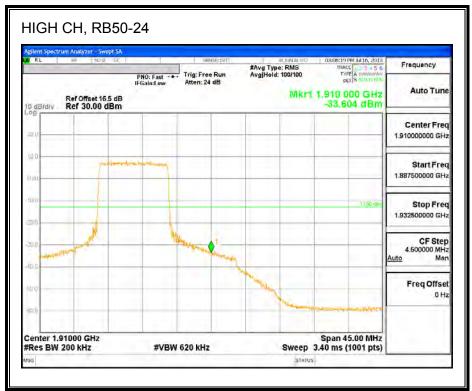


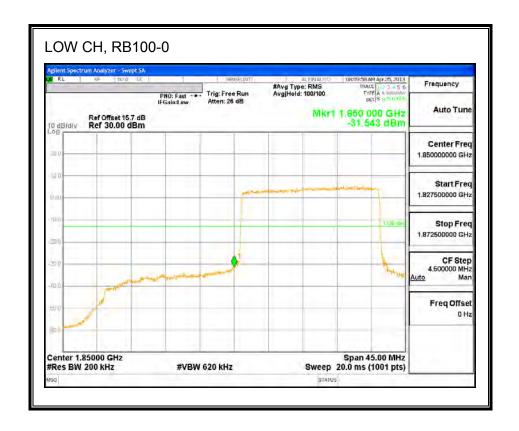
DATE: JULY 22, 2013





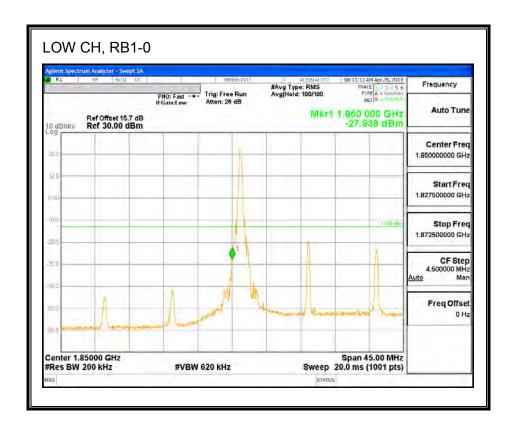


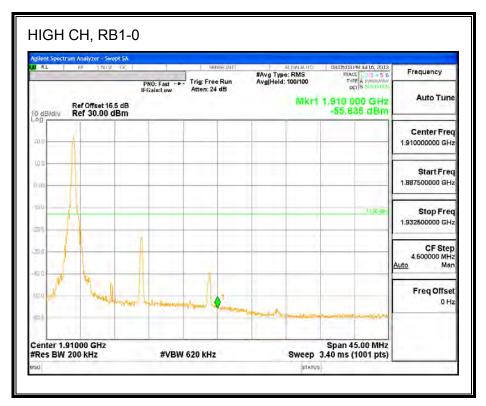




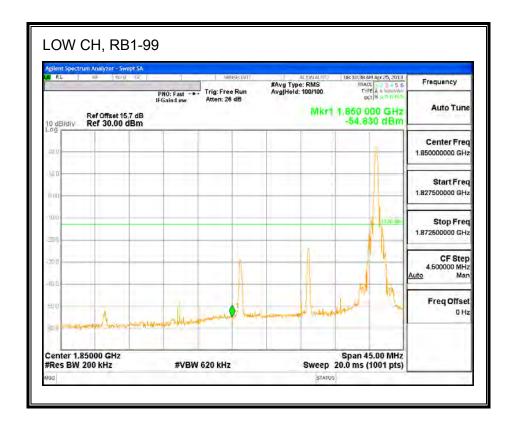


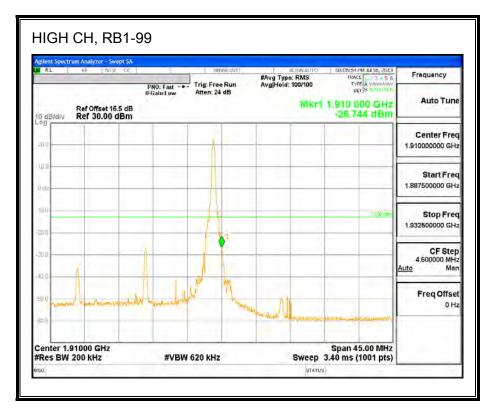
## 16QAM Band 2 (20.0 MHz BAND WIDTH)

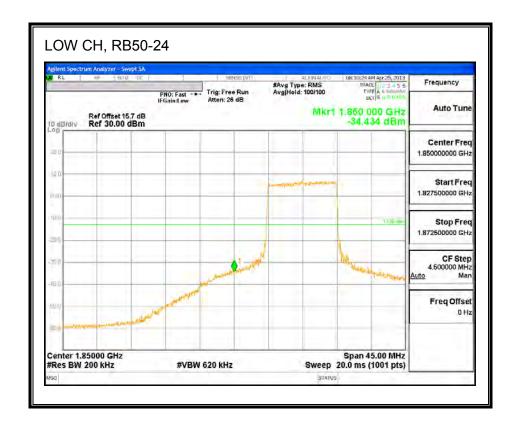


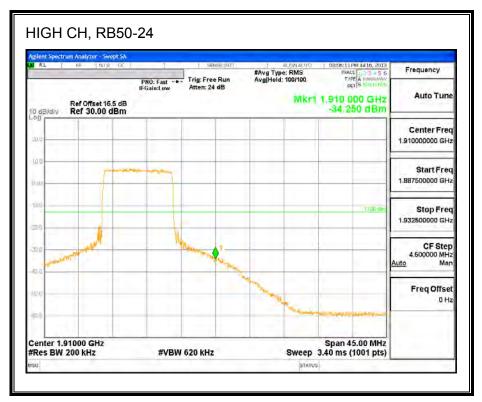


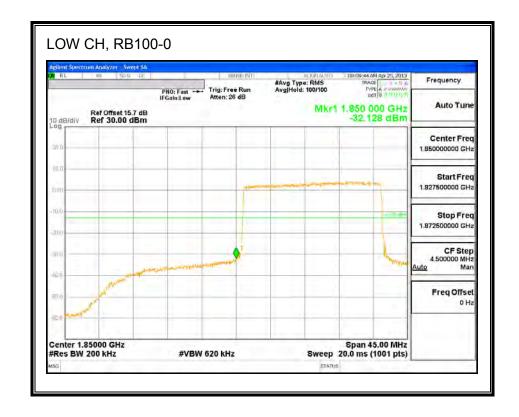
DATE: JULY 22, 2013

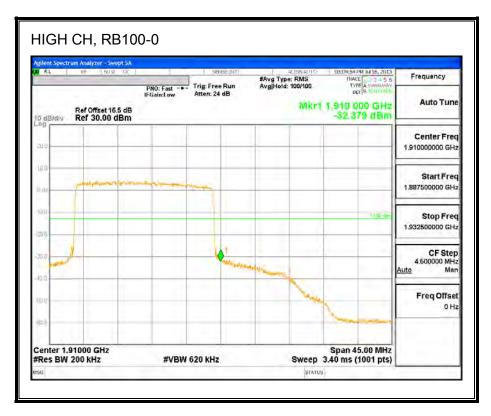






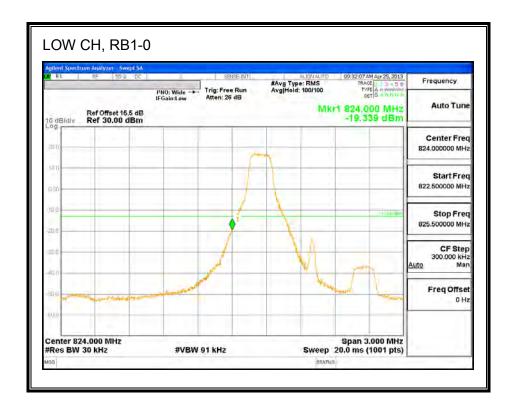


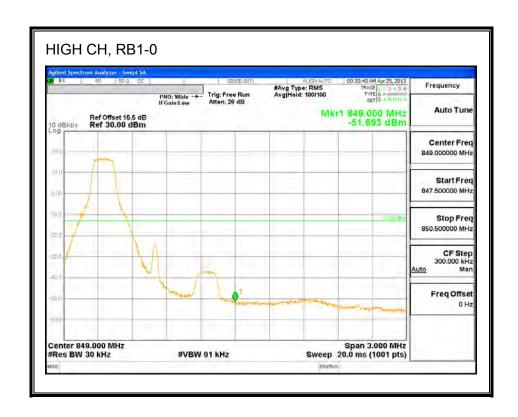


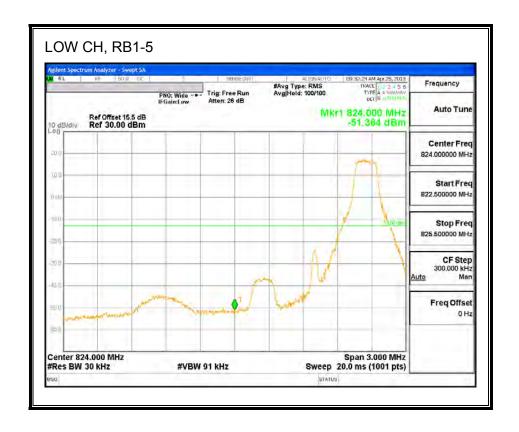


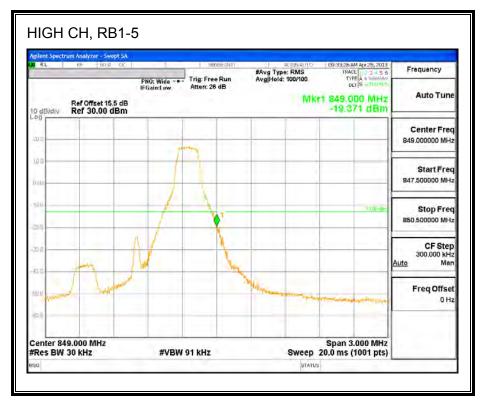
### 8.2.2. LTE BAND 5

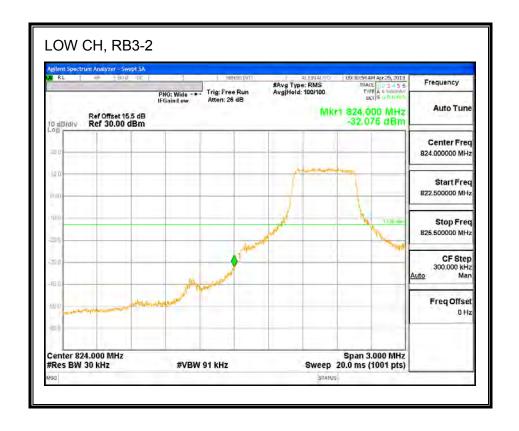
## **QPSK Band 5 (1.4 MHz BANDWIDTH)**

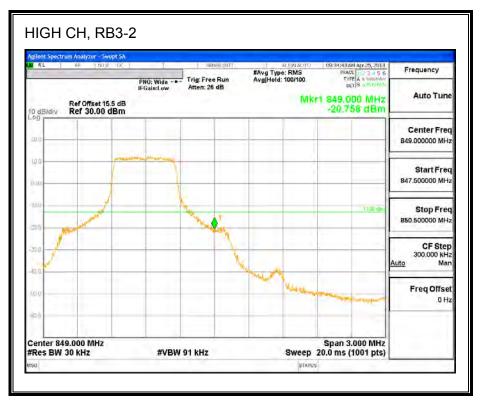


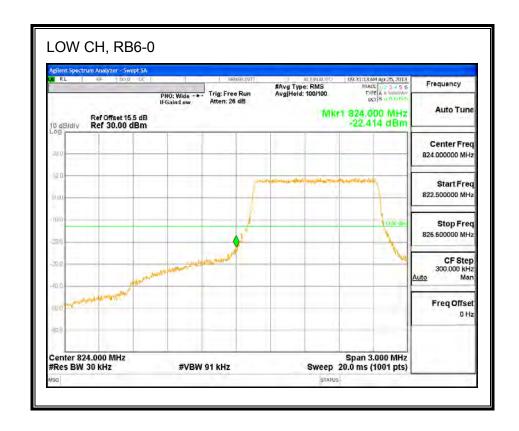


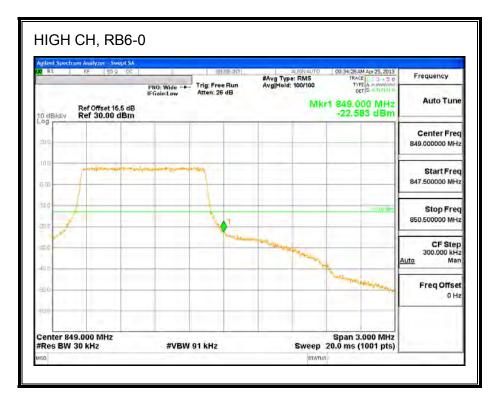




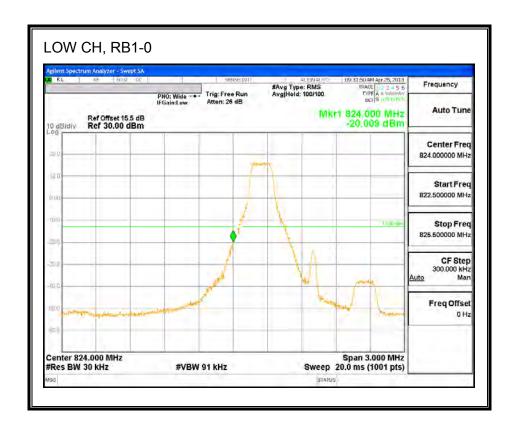


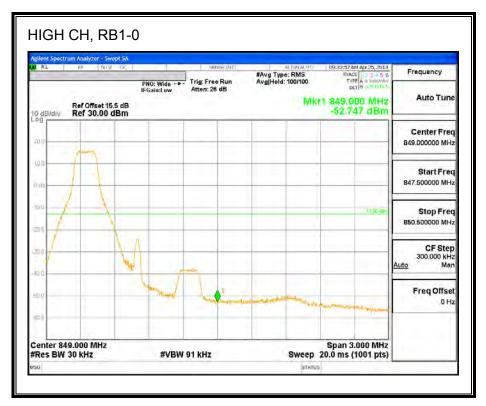




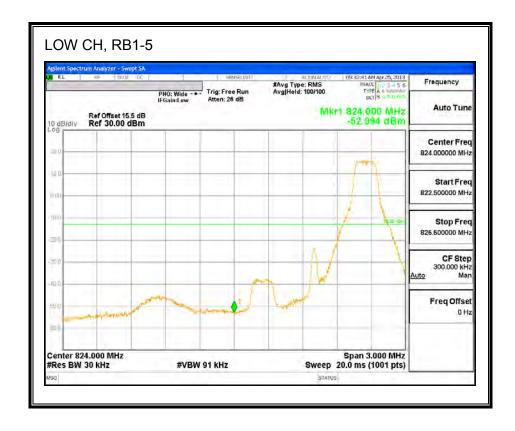


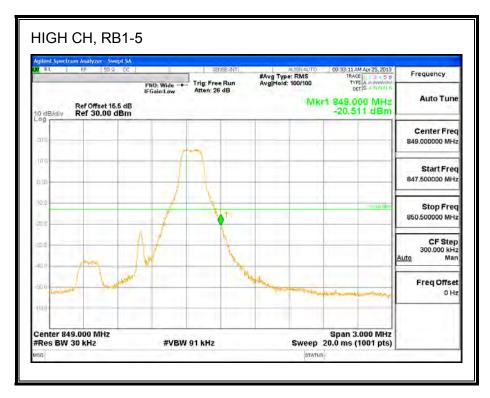
# 16QAM Band 5 (1.4 MHz BANDWIDTH)

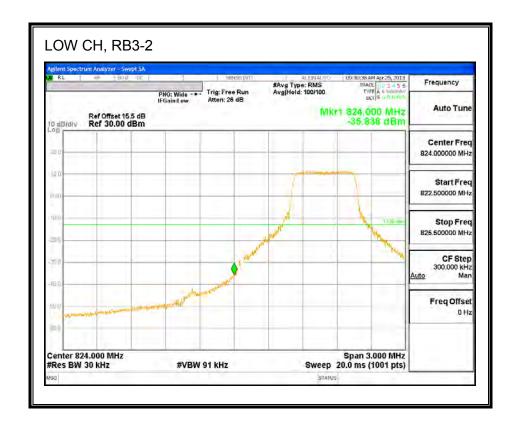


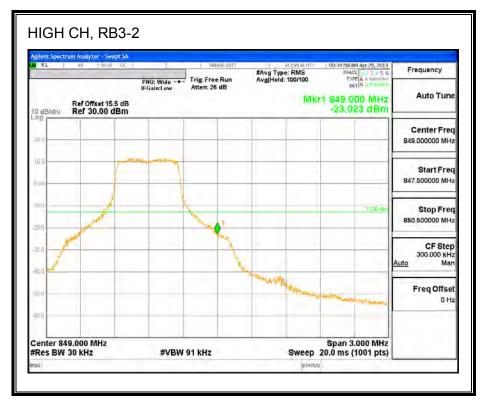


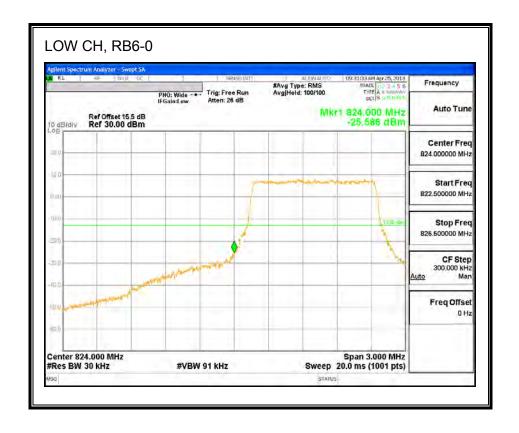
DATE: JULY 22, 2013

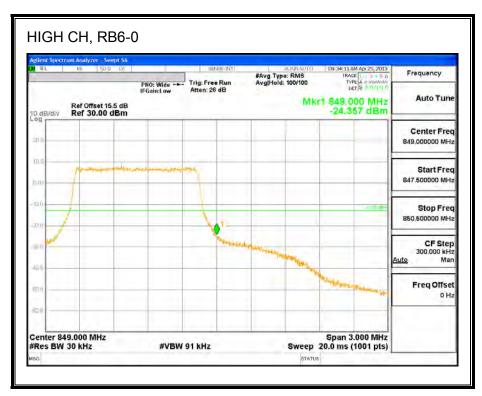




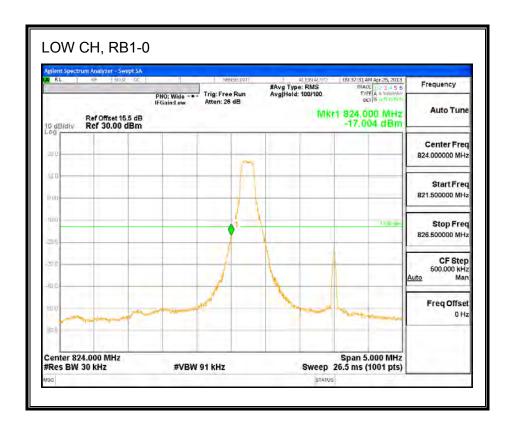


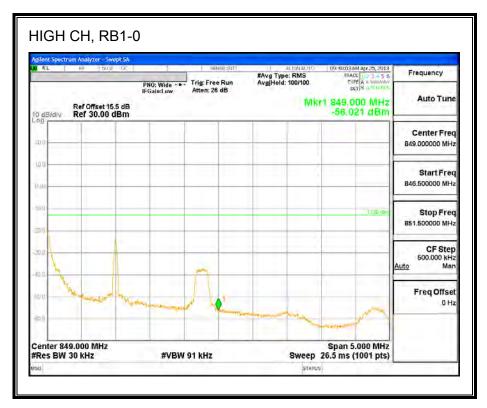




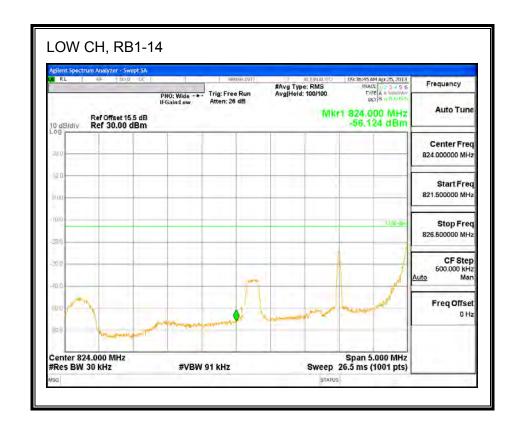


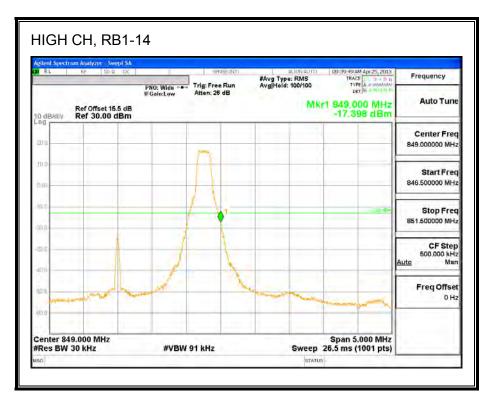
# **QPSK Band 5 (3 MHz BANDWIDTH)**

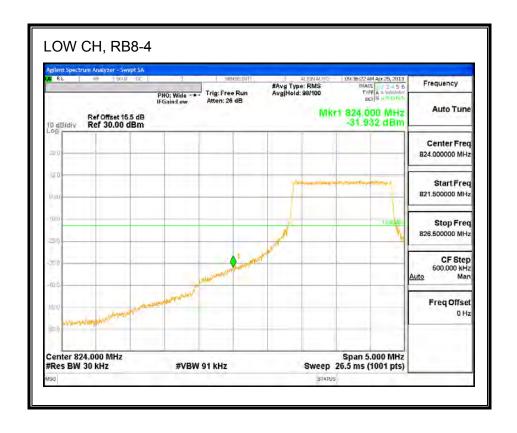


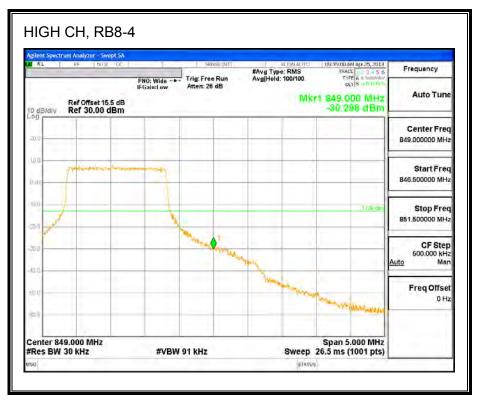


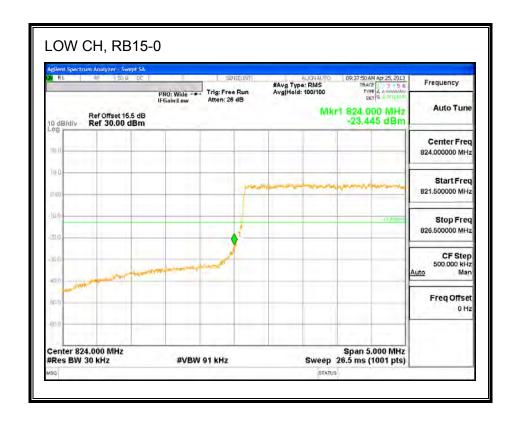
DATE: JULY 22, 2013

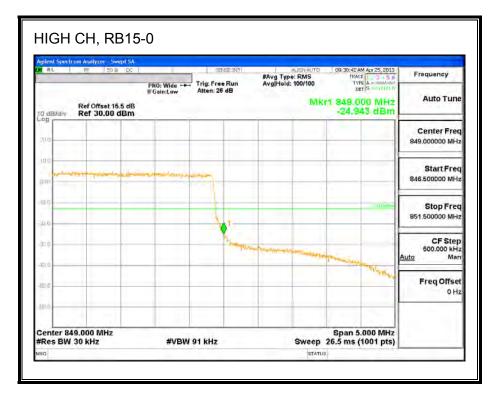




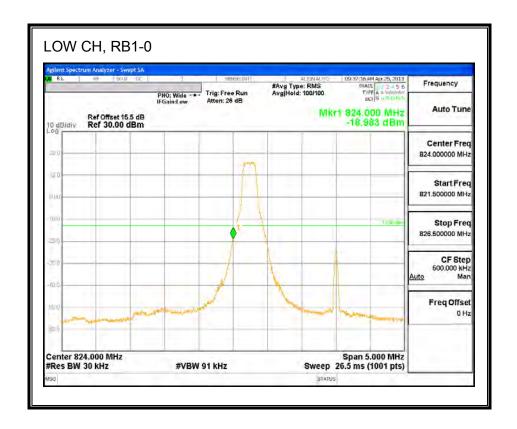


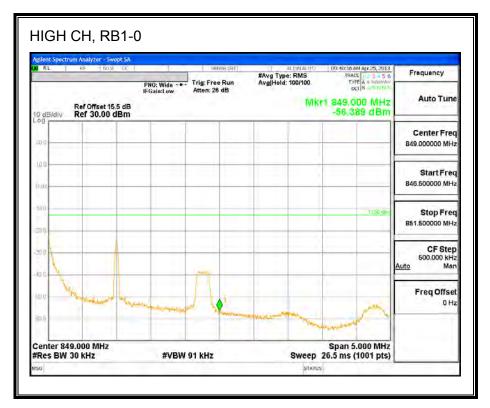




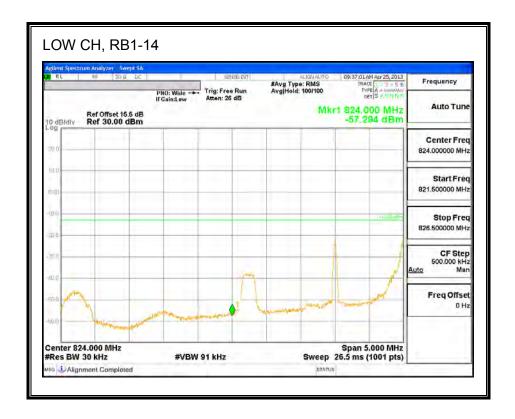


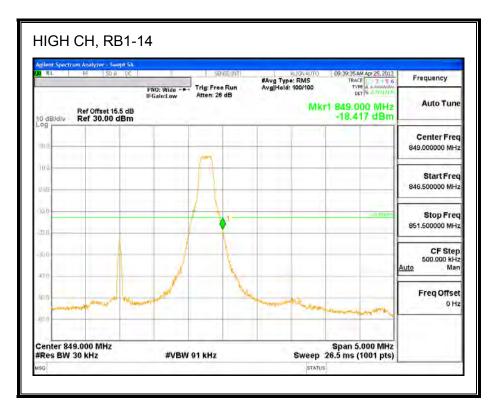
## 16QAM Band 5 (3 MHz BANDWIDTH)

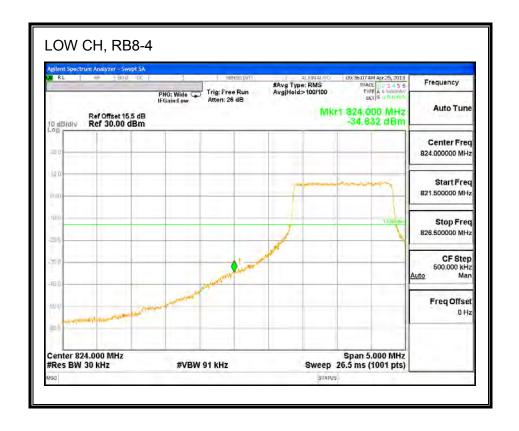


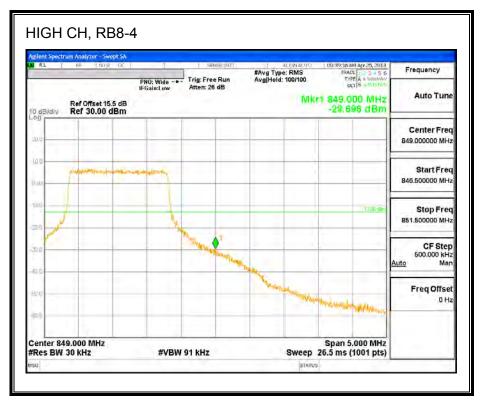


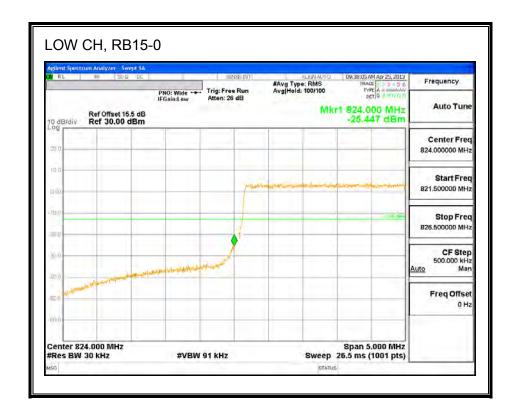
DATE: JULY 22, 2013

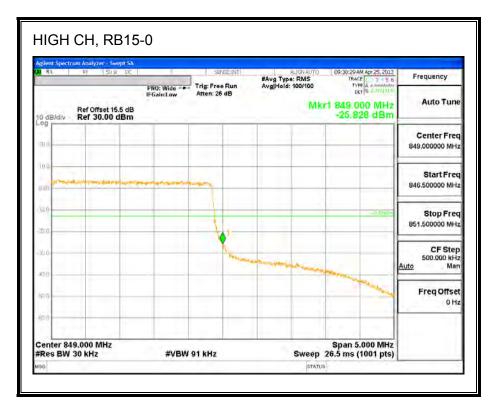




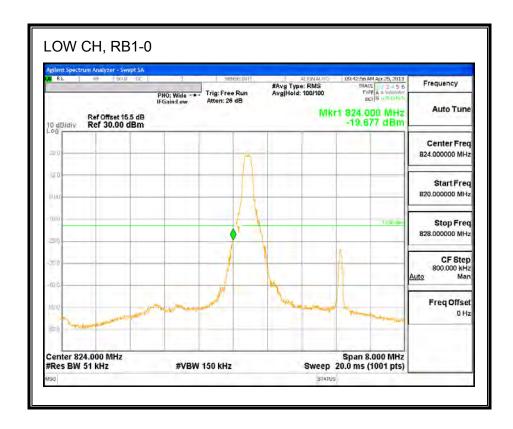


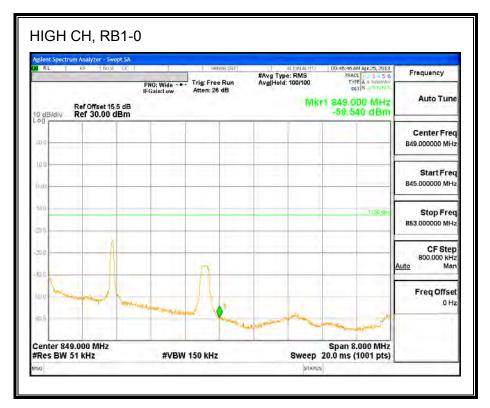




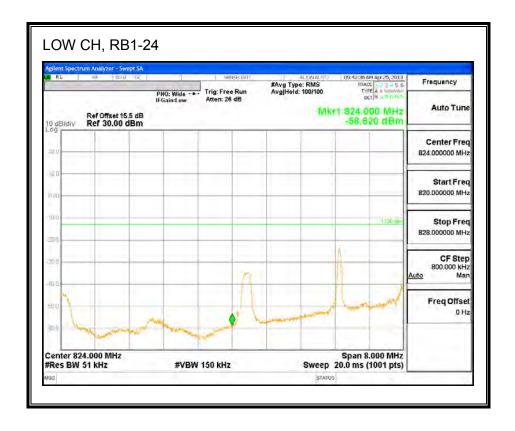


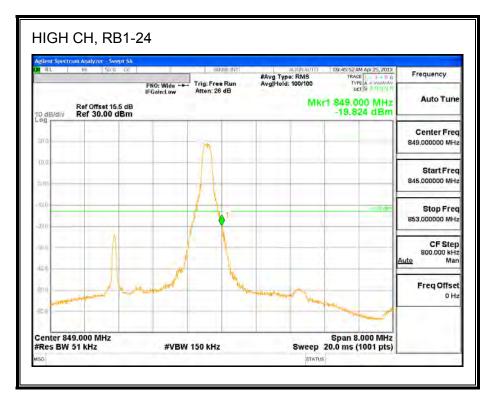
# **QPSK Band 5 (5 MHz BANDWIDTH)**

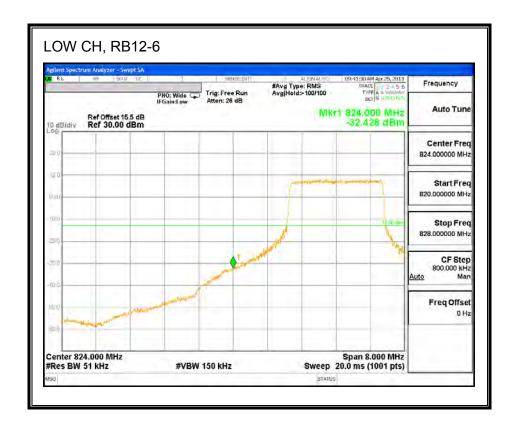


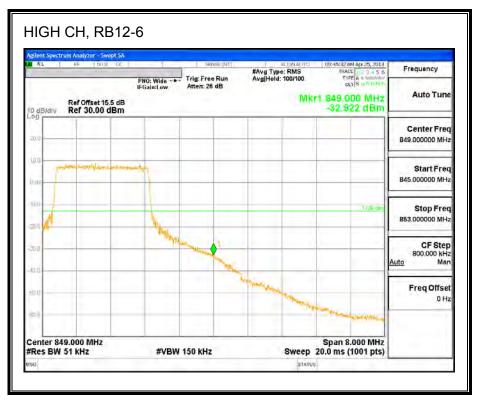


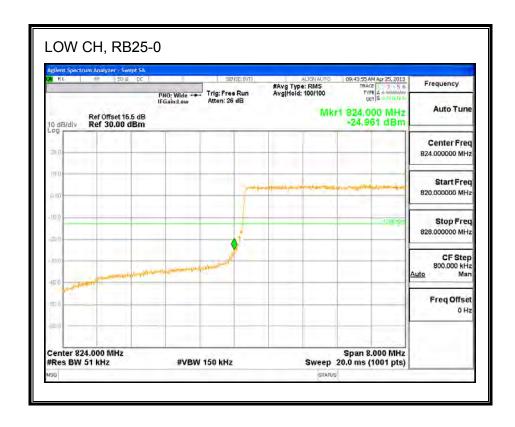
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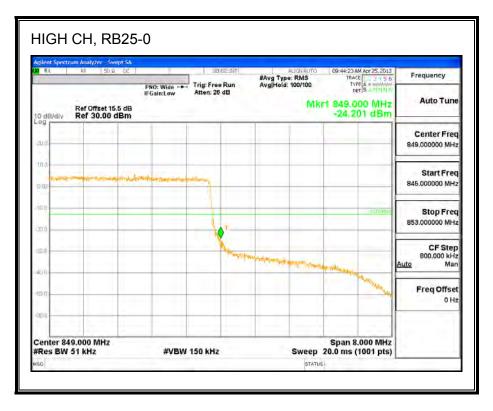




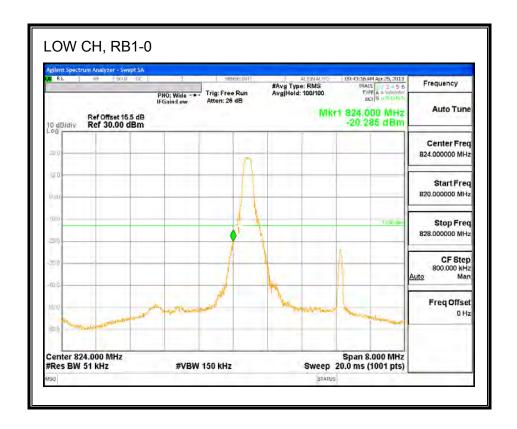


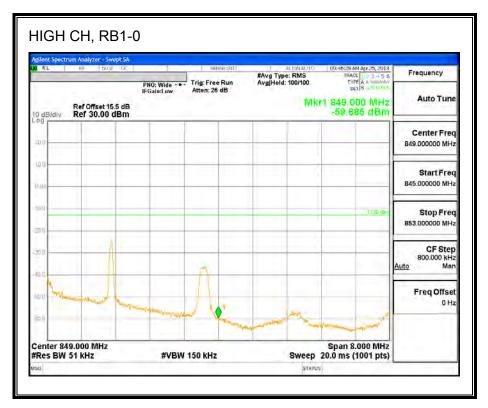




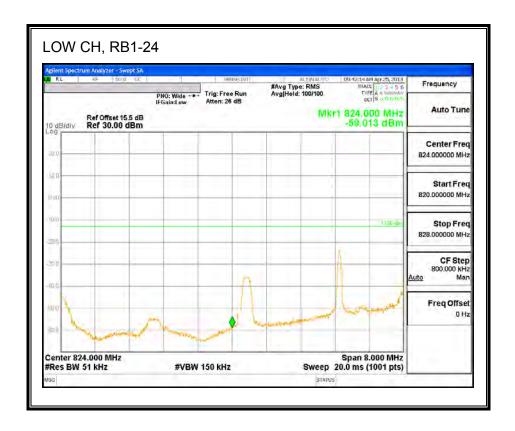


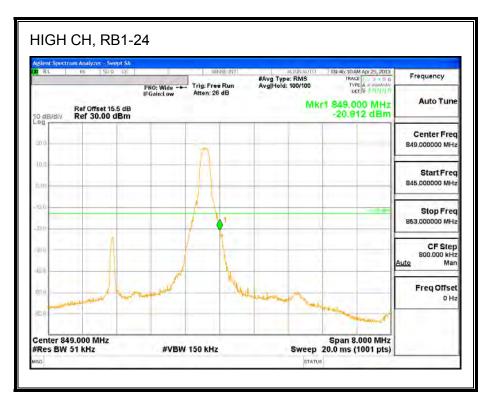
## 16QAM Band 5 (5 MHz BANDWIDTH)

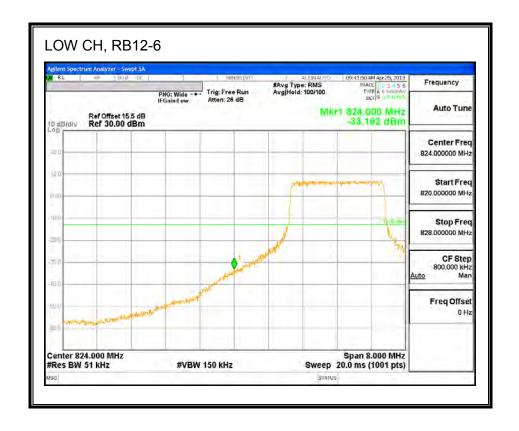


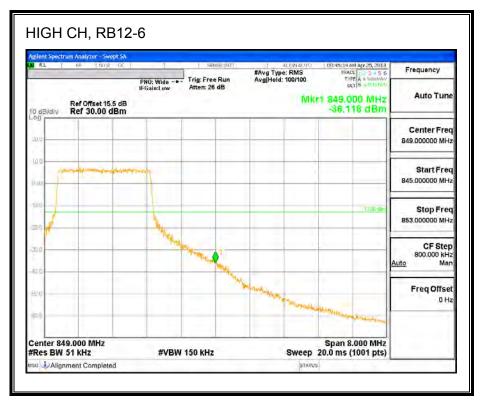


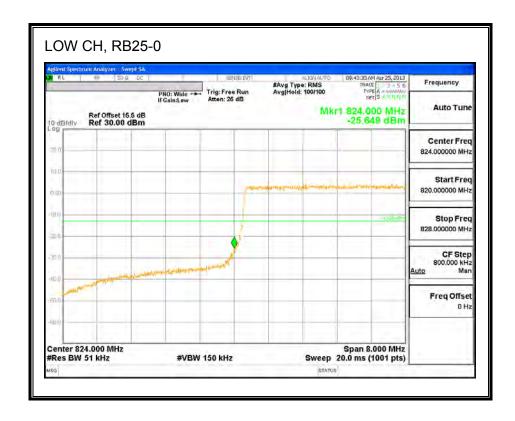
DATE: JULY 22, 2013

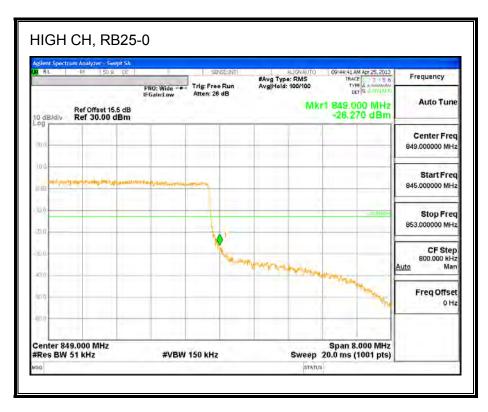




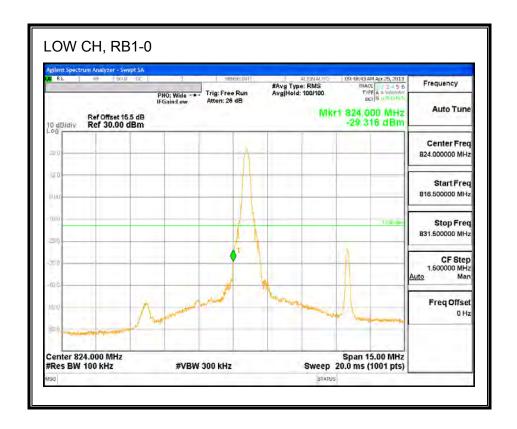


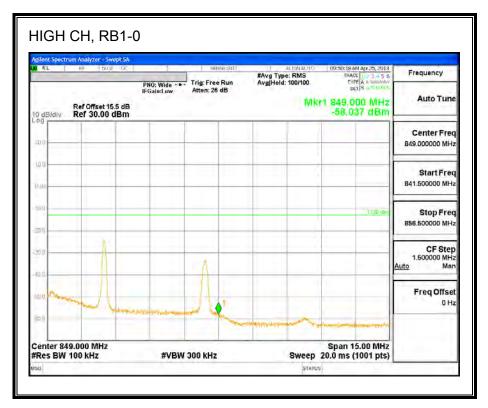




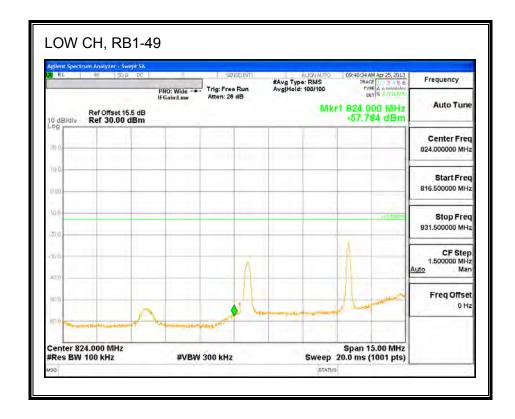


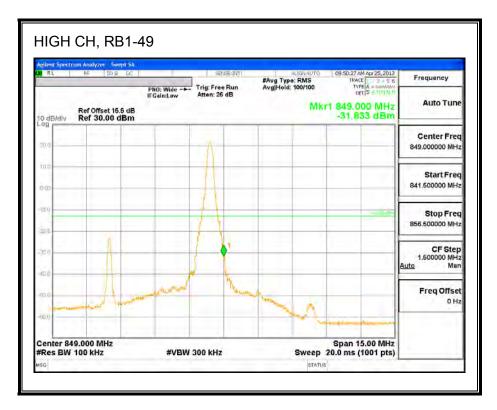
## **QPSK Band 5 (10 MHz BANDWIDTH)**

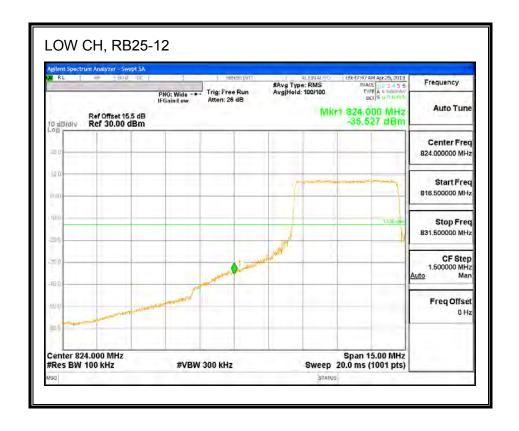


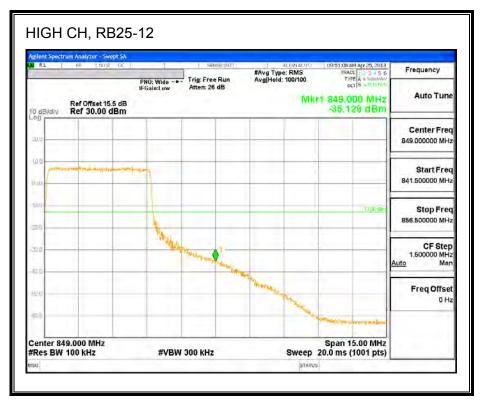


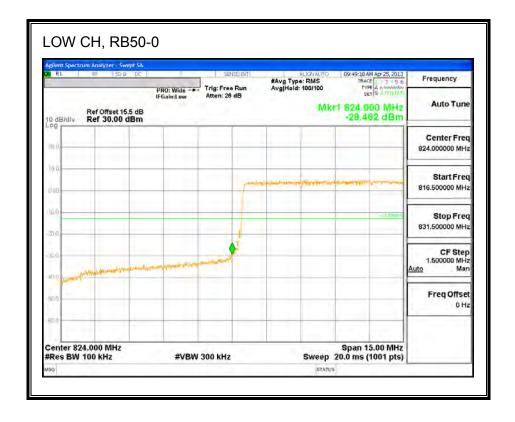
DATE: JULY 22, 2013

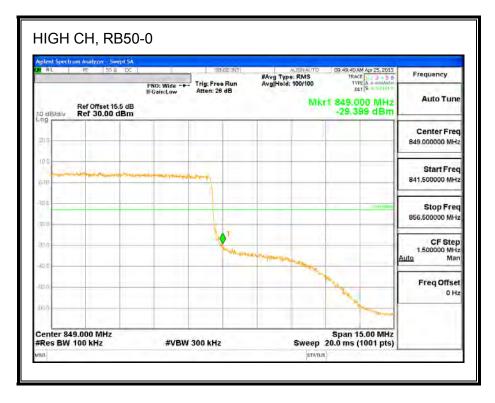




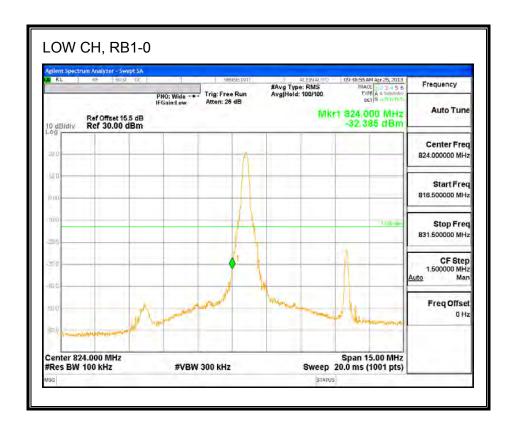


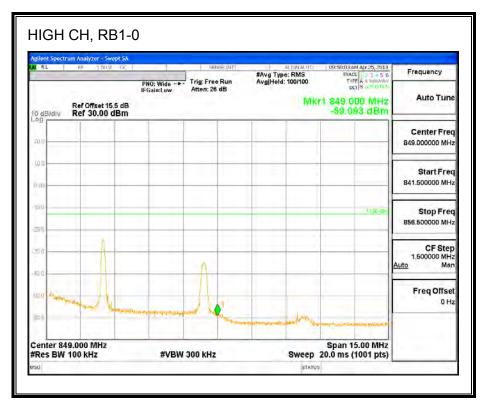




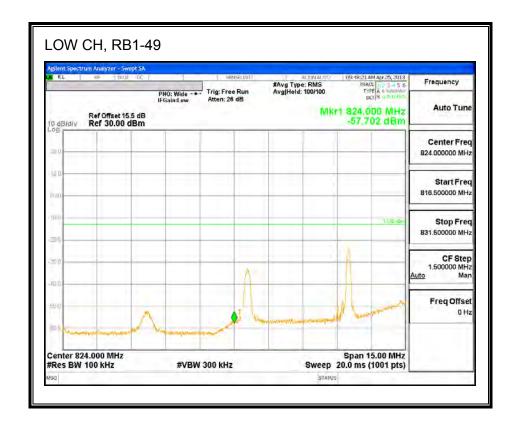


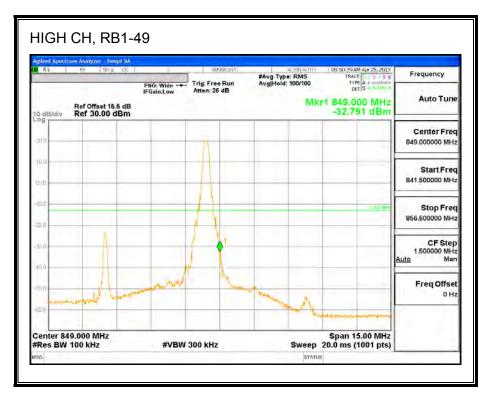
# 16QAM Band 5 (10 MHz BANDWIDTH)

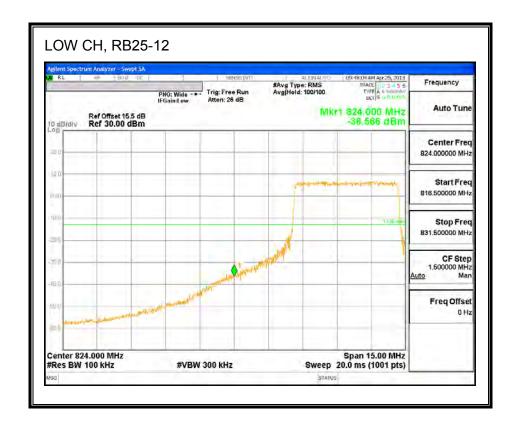


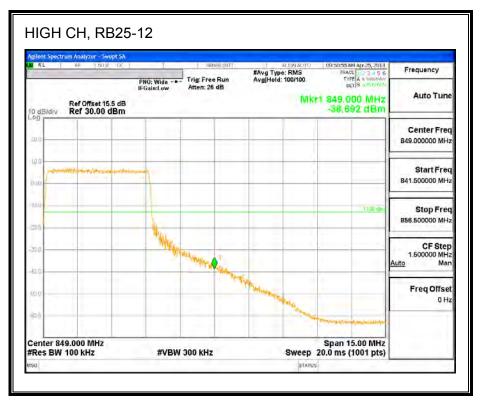


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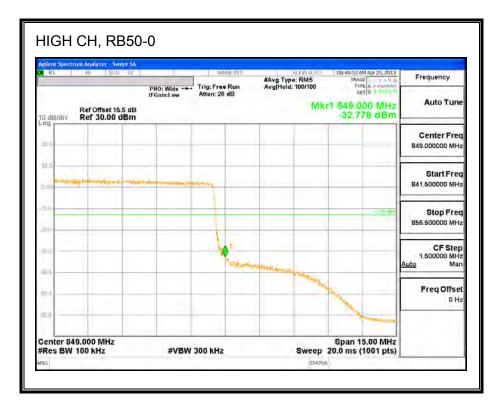












REPORT NO: 13U15037-2 DATE: JULY 22, 2013 EUT: QUAD-BAND RADIO WITH WLAN AND BT RADIO FCC ID: BCG-E2643A

#### **OUT OF BAND EMISSIONS** 8.3.

### **RULE PART(S)**

FCC: §2.1051, §22.901, §22.917, §24.238

### **LIMITS**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

### **TEST PROCEDURE**

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

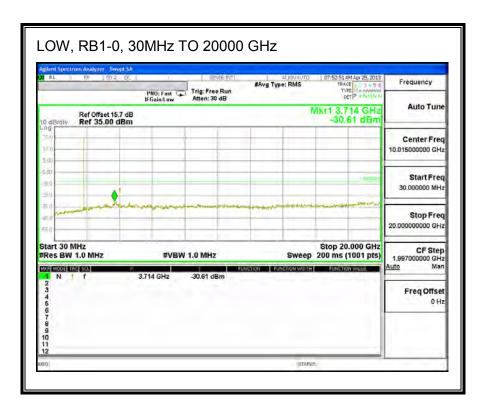
### **MODES TESTED**

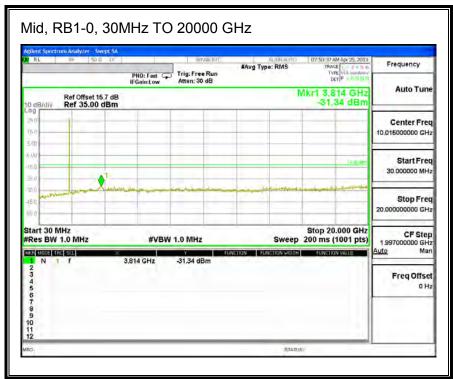
- LTE BAND 2
- LTE BAND 5

### **RESULTS**

## 8.3.1. LTE BAND 2

## LTE QPSK (1.4 MHz BANDWIDTH)

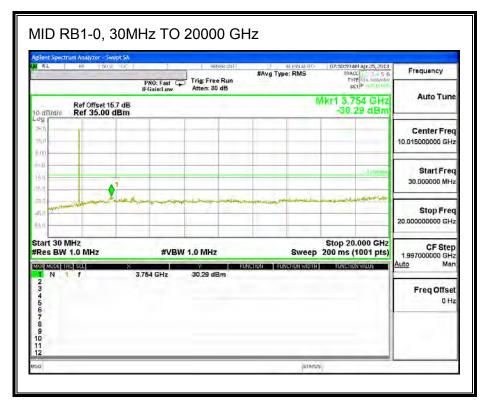




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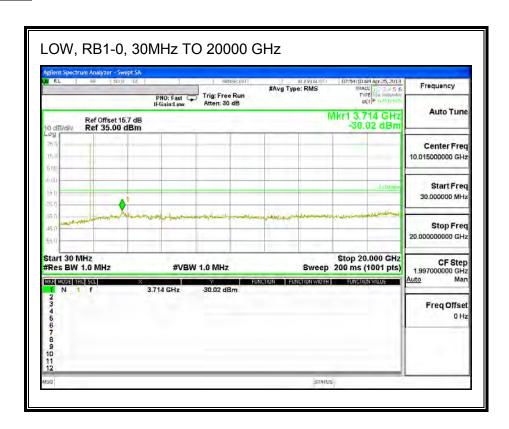
DATE: JULY 22, 2013

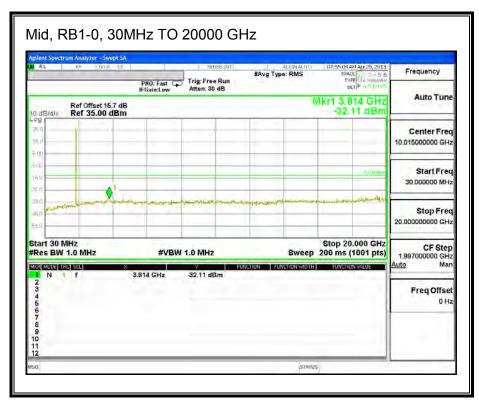
FCC ID: BCG-E2643A

Freq Offset 0 Hz

#### **Band 2 (3.0 MHz BANDWIDTH)**

#### LTE QPSK



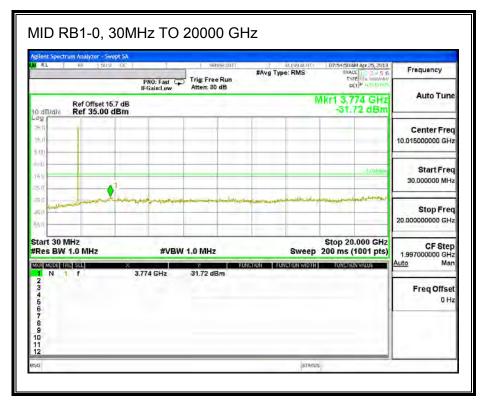


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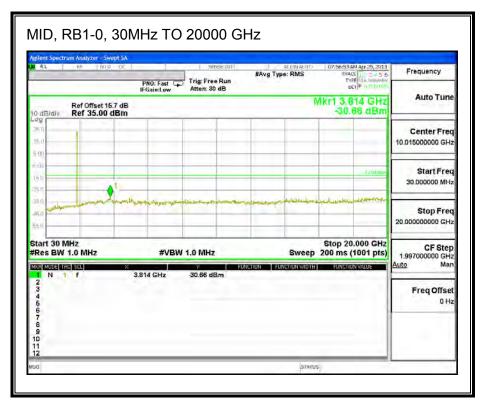
DATE: JULY 22, 2013



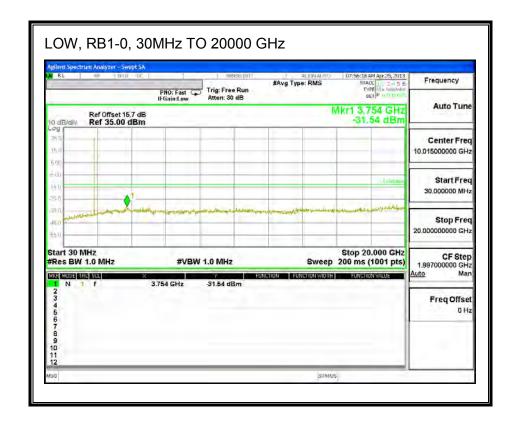
#### **Band 2 (5 MHz BANDWIDTH)**

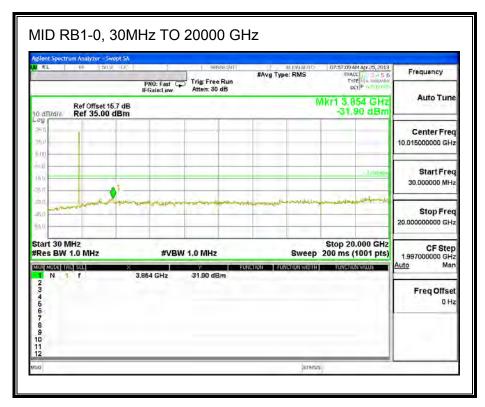
#### LTE QPSK











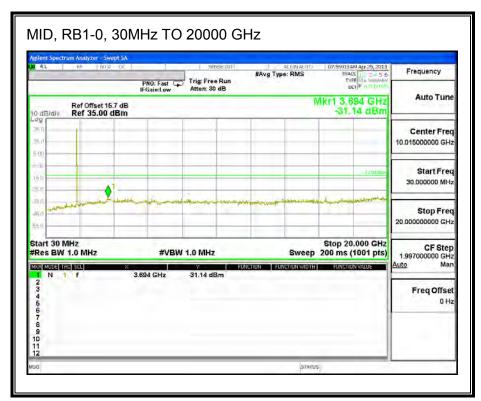
DATE: JULY 22, 2013



## **Band 2 (10 MHz BANDWIDTH)**

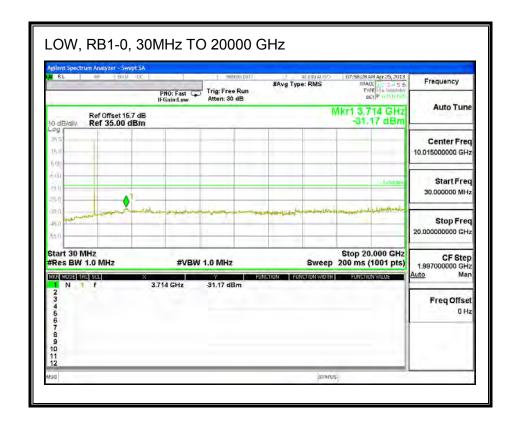
#### LTE QPSK

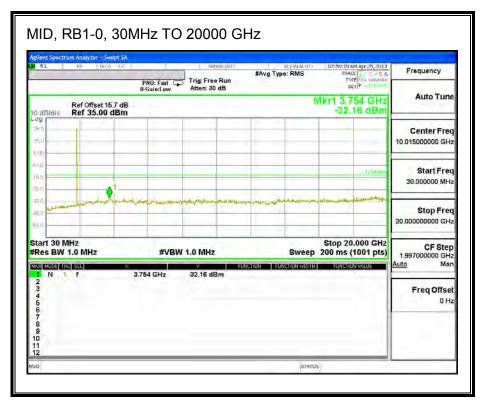




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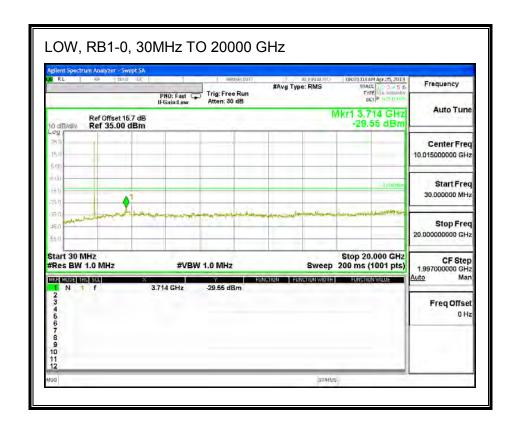


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#### **Band 2 (15 MHz BANDWIDTH)**

#### LTE QPSK



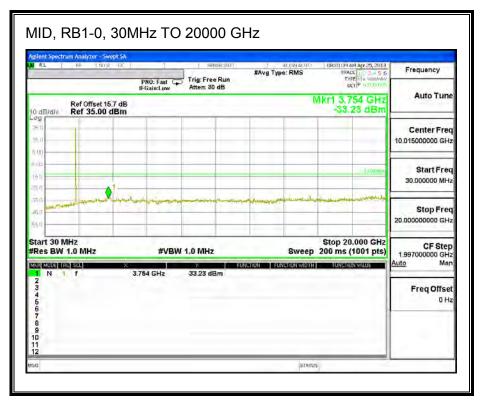


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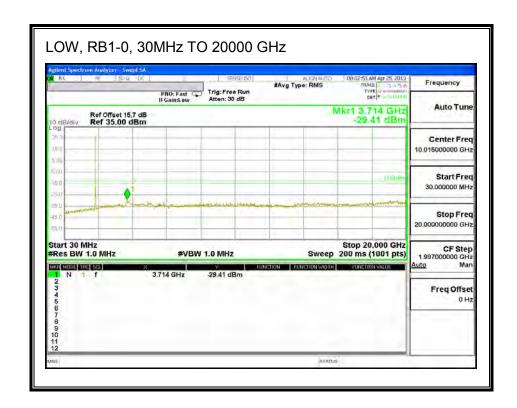


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## Band 2 (20 MHz BANDWIDTH)

## LTE QPSK





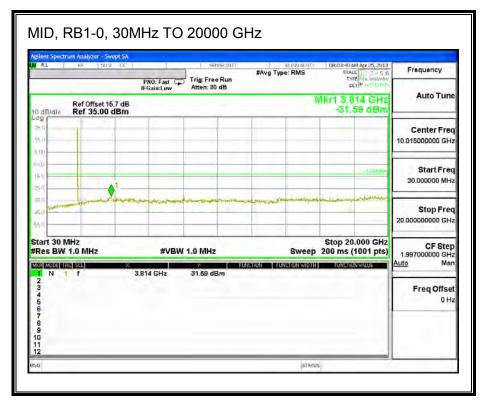
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0 Hz



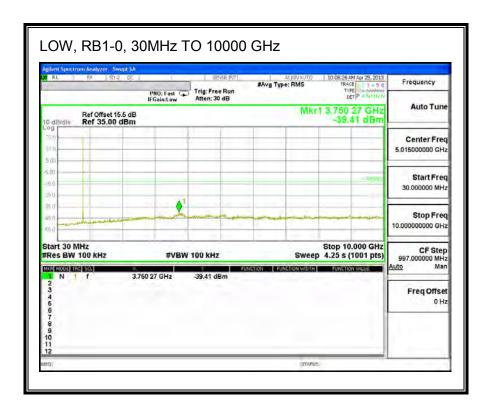


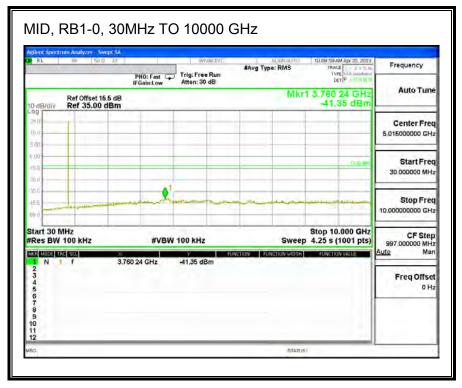
DATE: JULY 22, 2013



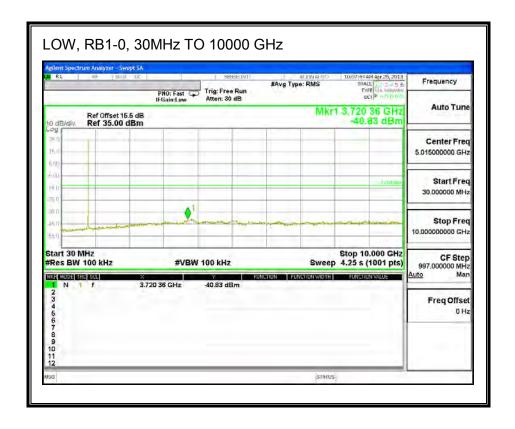
### 8.3.2. LTE BAND 5

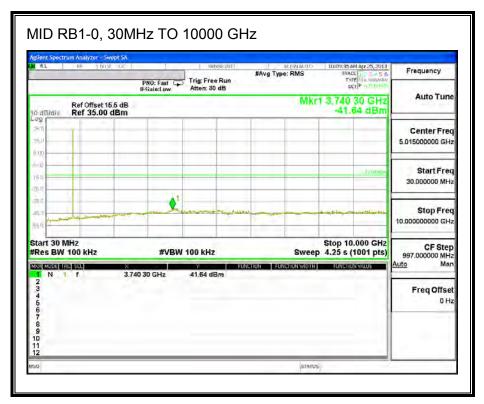
# LTE QPSK (1.4 MHz BANDWIDTH)











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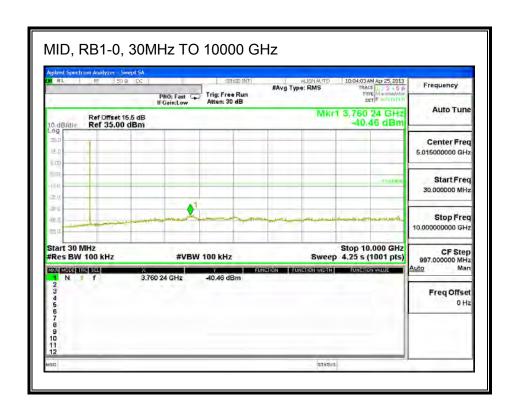
FCC ID: BCG-E2643A

Freq Offset 0 Hz

## Band 5 (3.0 MHz BANDWIDTH)

#### LTE QPSK

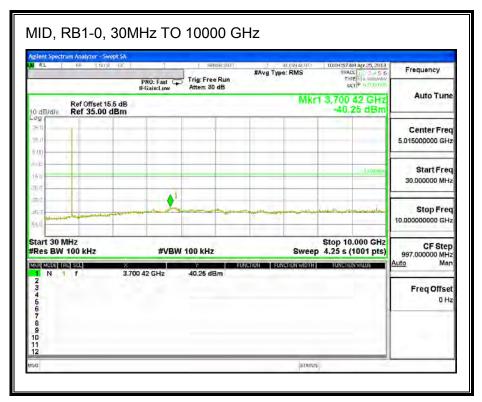




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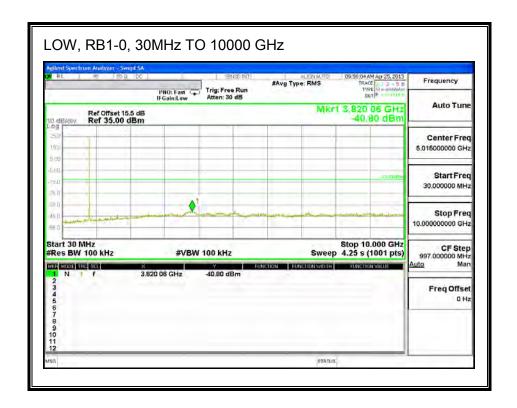


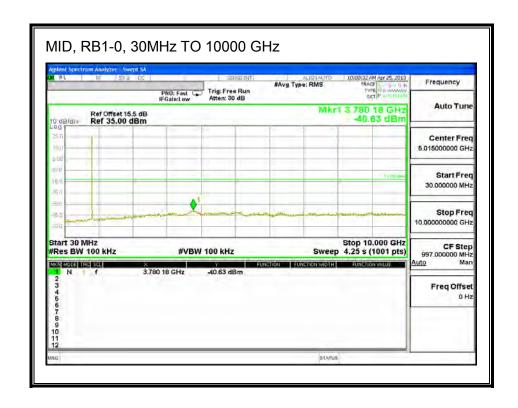
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## **Band 5 (5 MHz BANDWIDTH)**

#### LTE QPSK

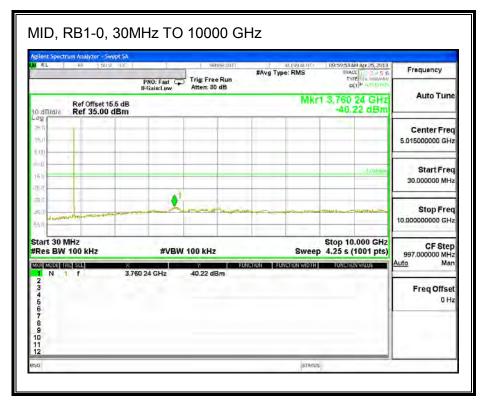




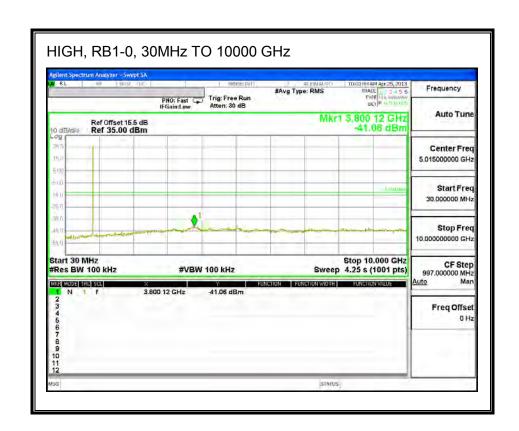
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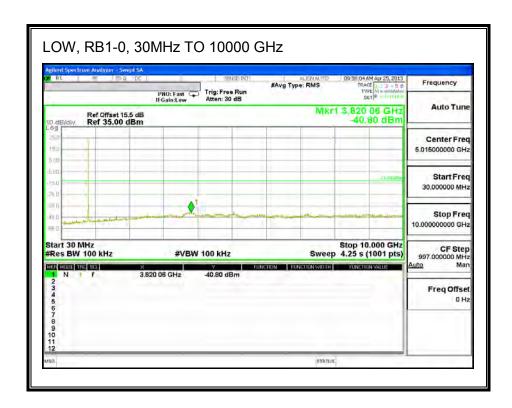


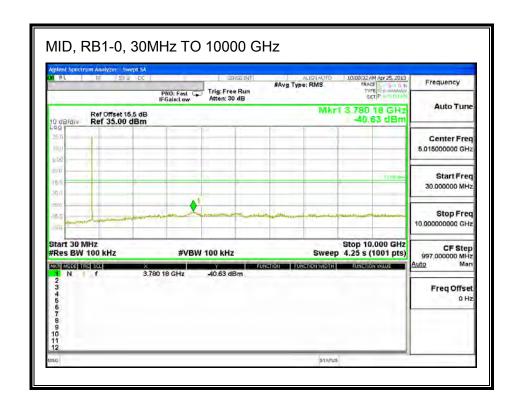
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## **Band 5 (10 MHz BANDWIDTH)**

## LTE QPSK



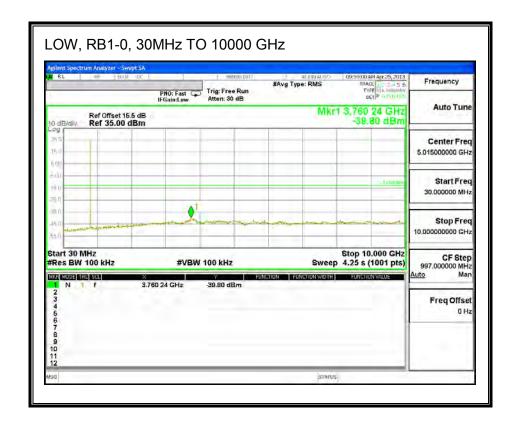


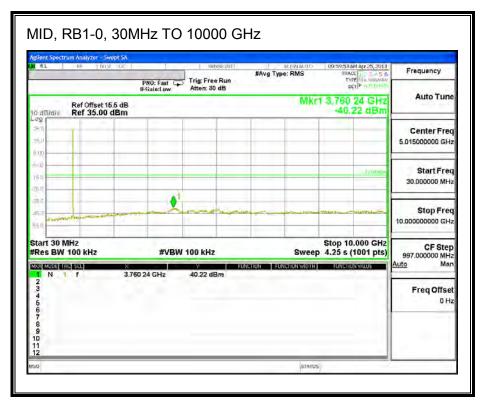
DATE: JULY 22, 2013

DATE: JULY 22, 2013

FCC ID: BCG-E2643A

0 Hz





DATE: JULY 22, 2013

