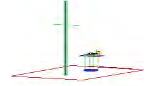




# PCTEST ENGINEERING LABORATORY, INC.

18855 Adams Court, Morgan Hill, CA 95037 USA  
Tel. 410.290.6652 / Fax 410.290.6654  
<http://www.pctest.com>



## MEASUREMENT REPORT FCC Part 22, 24, & 27 LTE

**Applicant Name:**

Apple Inc.  
1 Infinite Loop  
Cupertino, CA 95014  
United States

**Date of Testing:**

6/7-8/18/2017

**Test Site/Location:**

PCTEST Lab., Morgan Hill, CA, USA

**Test Report Serial No.:**

1C1706160002-61-03-R4.BCG

**FCC ID :** BCG-A1861

**APPLICANT:** APPLE INC.

**Application Type:**

Certification

**Model:**

A1861, A1958

**EUT Type:**

Watch

**FCC Classification:**

PCS Licensed Transmitter Worn on Body (PCT)

**FCC Rule Part(s):**

§2; §22; §24; §27

**Test Procedure(s):**

ANSI/TIA-603-E-2016, KDB 971168 D01 v02r02, KDB 648474 D03 v01r04,  
KDB 414788 D01 Radiated Test Site v01

**Test Device Serial No.:**

identical prototype [S/N: FH7TT00HJ78M, FH7TT00JJ78C, FH7TT006J79R]

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C1706160002-61-03-R4.BCG) supersedes and replaces the previously issued test report (S/N: 1C1706160002-61-03-R3.BCG) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

  
Randy Ortanez  
President



|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 1 of 166                   |

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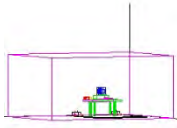
06/06/2017

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# T A B L E O F C O N T E N T S

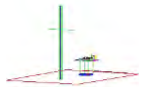
|                                                                 |     |
|-----------------------------------------------------------------|-----|
| FCC PART 22, 24, & 27 MEASUREMENT REPORT .....                  | 3   |
| 1.0 INTRODUCTION .....                                          | 6   |
| 1.1 Scope.....                                                  | 6   |
| 1.2 Testing Facility .....                                      | 6   |
| 2.0 PRODUCT INFORMATION.....                                    | 7   |
| 2.1 Equipment Description .....                                 | 7   |
| 2.2 Device Capabilities .....                                   | 7   |
| 2.3 Antenna Configuration .....                                 | 7   |
| 2.4 Test Support Equipment .....                                | 8   |
| 2.5 Test Configuration.....                                     | 8   |
| 2.6 Software and Firmware .....                                 | 8   |
| 2.7 EMI Suppression Device(s)/Modifications.....                | 8   |
| 3.0 DESCRIPTION OF TESTS .....                                  | 9   |
| 3.1 Measurement Procedure.....                                  | 9   |
| 3.1 Block C Frequency Range .....                               | 9   |
| 3.2 Block A Frequency Range .....                               | 9   |
| 3.3 Cellular - Base Frequency Blocks .....                      | 9   |
| 3.4 Cellular - Mobile Frequency Blocks.....                     | 10  |
| 3.5 PCS - Base Frequency Blocks.....                            | 10  |
| 3.6 PCS - Mobile Frequency Blocks .....                         | 10  |
| 3.7 AWS - Base Frequency Blocks .....                           | 10  |
| 3.8 AWS - Mobile Frequency Blocks.....                          | 11  |
| 3.9 BRS/EBS Frequency Block.....                                | 11  |
| 3.10 Radiated Power and Radiated Spurious Emissions.....        | 12  |
| 4.0 MEASUREMENT UNCERTAINTY .....                               | 13  |
| 5.0 TEST EQUIPMENT CALIBRATION DATA .....                       | 14  |
| 6.0 SAMPLE CALCULATIONS .....                                   | 15  |
| 7.0 TEST RESULTS.....                                           | 16  |
| 7.1 Summary.....                                                | 16  |
| 7.2 Occupied Bandwidth .....                                    | 17  |
| 7.3 Spurious and Harmonic Emissions at Antenna Terminal .....   | 44  |
| 7.4 Band Edge Emissions at Antenna Terminal.....                | 72  |
| 7.5 Peak-Average Ratio .....                                    | 121 |
| 7.6 ERP/EIRP .....                                              | 128 |
| 7.7 Radiated Spurious Emissions Measurements – Above 1GHz ..... | 138 |
| 7.8 Radiated Spurious Emissions Measurements – Below 1GHz.....  | 149 |
| 7.9 Frequency Stability / Temperature Variation .....           | 153 |
| 8.0 CONCLUSION.....                                             | 166 |

|                                               |                              |                                                                                                                                                                |  |                                 |
|-----------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|
| FCC ID: BCG-A1861                             |                              |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017 | EUT Type:<br>Watch                                                                                                                                             |  | Page 2 of 166                   |



## MEASUREMENT REPORT

### FCC Part 22, 24, & 27



#### §2.1033 General Information

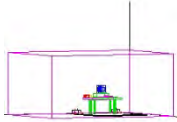
**APPLICANT:** Apple Inc.  
**APPLICANT ADDRESS:** 1 Infinite Loop  
 Cupertino, CA 95014, United States  
**TEST SITE:** PCTEST ENGINEERING LABORATORY, INC.  
**TEST SITE ADDRESS:** 18855 Adams Court, Morgan Hill, CA 95037 USA  
**FCC RULE PART(S):** §2; §22; §24; §27  
**BASE MODEL:** A1861, A1958  
**FCC ID:** BCG-A1861  
**FCC CLASSIFICATION:** PCS Licensed Transmitter Worn on Body (PCT)  
**FREQUENCY TOLERANCE:**  $\pm 0.00025\%$  (2.5 ppm)  
**Test Device Serial No.:** FH7TT00HJ78M, ☐ Production ☒ Pre-Production ☐ Engineering  
 FH7TT00JJ78C,  
 FH7TT006J79R  
**DATE(S) OF TEST:** 6/7-8/18/2017  
**TEST REPORT S/N:** 1C1706160002-61-03-R4.BCG

#### Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Morgan Hill, CA 95037, U.S.A.

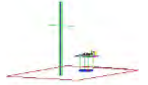
- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISSED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

|                                               |                                                                                     |                                                                |                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                        | EUT Type:<br>Watch                                             | Page 3 of 166                   |



## MEASUREMENT REPORT

### FCC Part 22, 24, & 27



| Mode        | FCC Rule Part | Tx Frequency (MHz) | ERP/EIRP       |                  | Emission Designator | Modulation |
|-------------|---------------|--------------------|----------------|------------------|---------------------|------------|
|             |               |                    | Max. Power (W) | Max. Power (dBm) |                     |            |
| LTE Band 12 | 27            | 699.7 - 715.3      | 0.00073        | -1.37            | 1M08G7D             | QPSK       |
| LTE Band 12 | 27            | 699.7 - 715.3      | 0.00060        | -2.25            | 1M07W7D             | 16QAM      |
| LTE Band 12 | 27            | 700.5 - 714.5      | 0.00073        | -1.35            | 2M71G7D             | QPSK       |
| LTE Band 12 | 27            | 700.5 - 714.5      | 0.00060        | -2.25            | 2M71W7D             | 16QAM      |
| LTE Band 12 | 27            | 701.5 - 713.5      | 0.00072        | -1.42            | 4M51G7D             | QPSK       |
| LTE Band 12 | 27            | 701.5 - 713.5      | 0.00060        | -2.25            | 4M50W7D             | 16QAM      |
| LTE Band 12 | 27            | 704 - 711          | 0.00069        | -1.62            | 9M01G7D             | QPSK       |
| LTE Band 12 | 27            | 704 - 711          | 0.00060        | -2.25            | 9M02W7D             | 16QAM      |
| LTE Band 17 | 27            | 706.5 - 713.5      | 0.00070        | -1.56            | 4M51G7D             | QPSK       |
| LTE Band 17 | 27            | 706.5 - 713.5      | 0.00058        | -2.38            | 4M50W7D             | 16QAM      |
| LTE Band 17 | 27            | 709 - 711          | 0.00070        | -1.58            | 9M01G7D             | QPSK       |
| LTE Band 17 | 27            | 709 - 711          | 0.00059        | -2.31            | 9M02W7D             | 16QAM      |
| LTE Band 13 | 27            | 779.5 - 784.5      | 0.00118        | 0.72             | 4M52G7D             | QPSK       |
| LTE Band 13 | 27            | 779.5 - 784.5      | 0.00108        | 0.33             | 4M52W7D             | 16QAM      |
| LTE Band 13 | 27            | 782                | 0.00115        | 0.60             | 8M98G7D             | QPSK       |
| LTE Band 13 | 27            | 782                | 0.00097        | -0.12            | 9M00W7D             | 16QAM      |
| LTE Band 5  | 22H           | 824.7 - 848.3      | 0.00138        | 1.40             | 1M07G7D             | QPSK       |
| LTE Band 5  | 22H           | 824.7 - 848.3      | 0.00112        | 0.49             | 1M07W7D             | 16QAM      |
| LTE Band 5  | 22H           | 825.5 - 847.5      | 0.00136        | 1.32             | 2M71G7D             | QPSK       |
| LTE Band 5  | 22H           | 825.5 - 847.5      | 0.00113        | 0.52             | 2M72W7D             | 16QAM      |
| LTE Band 5  | 22H           | 826.5 - 846.5      | 0.00133        | 1.23             | 4M52G7D             | QPSK       |
| LTE Band 5  | 22H           | 826.5 - 846.5      | 0.00113        | 0.52             | 4M52W7D             | 16QAM      |
| LTE Band 5  | 22H           | 829 - 844          | 0.00135        | 1.31             | 9M02G7D             | QPSK       |
| LTE Band 5  | 22H           | 829 - 844          | 0.00117        | 0.69             | 9M03W7D             | 16QAM      |
| LTE Band 26 | 22H           | 824.7 - 848.3      | 0.00130        | 1.13             | 1M07G7D             | QPSK       |
| LTE Band 26 | 22H           | 824.7 - 848.3      | 0.00109        | 0.37             | 1M07W7D             | 16QAM      |
| LTE Band 26 | 22H           | 825.5 - 847.5      | 0.00136        | 1.34             | 2M71G7D             | QPSK       |
| LTE Band 26 | 22H           | 825.5 - 847.5      | 0.00113        | 0.52             | 2M72W7D             | 16QAM      |
| LTE Band 26 | 22H           | 826.5 - 846.5      | 0.00129        | 1.11             | 4M52G7D             | QPSK       |
| LTE Band 26 | 22H           | 826.5 - 846.5      | 0.00110        | 0.40             | 4M52W7D             | 16QAM      |
| LTE Band 26 | 22H           | 829 - 844          | 0.00129        | 1.11             | 9M02G7D             | QPSK       |
| LTE Band 26 | 22H           | 829 - 844          | 0.00113        | 0.52             | 9M03W7D             | 16QAM      |

|                                               |                                                                                                                                                            |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                               | EUT Type:<br>Watch | Page 4 of 166                   |

| Mode        | FCC Rule Part | Tx Frequency (MHz) | ERP/EIRP       |                  | Emission Designator | Modulation |
|-------------|---------------|--------------------|----------------|------------------|---------------------|------------|
|             |               |                    | Max. Power (W) | Max. Power (dBm) |                     |            |
| LTE Band 4  | 27            | 1710.7 - 1754.3    | 0.01148        | 10.60            | 1M08G7D             | QPSK       |
| LTE Band 4  | 27            | 1710.7 - 1754.3    | 0.00918        | 9.63             | 1M07W7D             | 16QAM      |
| LTE Band 4  | 27            | 1711.5 - 1753.5    | 0.01132        | 10.54            | 2M71G7D             | QPSK       |
| LTE Band 4  | 27            | 1711.5 - 1753.5    | 0.00918        | 9.63             | 2M71W7D             | 16QAM      |
| LTE Band 4  | 27            | 1712.5 - 1752.5    | 0.01114        | 10.47            | 4M52G7D             | QPSK       |
| LTE Band 4  | 27            | 1712.5 - 1752.5    | 0.00912        | 9.60             | 4M51W7D             | 16QAM      |
| LTE Band 4  | 27            | 1715 - 1750        | 0.01156        | 10.63            | 9M01G7D             | QPSK       |
| LTE Band 4  | 27            | 1715 - 1750        | 0.00918        | 9.63             | 9M01W7D             | 16QAM      |
| LTE Band 4  | 27            | 1717.5 - 1747.5    | 0.01156        | 10.63            | 13M5G7D             | QPSK       |
| LTE Band 4  | 27            | 1717.5 - 1747.5    | 0.00918        | 9.63             | 13M5W7D             | 16QAM      |
| LTE Band 4  | 27            | 1720 - 1745        | 0.01156        | 10.63            | 18M0G7D             | QPSK       |
| LTE Band 4  | 27            | 1720 - 1745        | 0.00953        | 9.79             | 18M0W7D             | 16QAM      |
| LTE Band 2  | 24E           | 1850.7 - 1909.3    | 0.01374        | 11.38            | 1M08G7D             | QPSK       |
| LTE Band 2  | 24E           | 1850.7 - 1909.3    | 0.01130        | 10.53            | 1M07W7D             | 16QAM      |
| LTE Band 2  | 24E           | 1851.5 - 1908.5    | 0.01409        | 11.49            | 2M71G7D             | QPSK       |
| LTE Band 2  | 24E           | 1851.5 - 1908.5    | 0.01130        | 10.53            | 2M72W7D             | 16QAM      |
| LTE Band 2  | 24E           | 1852.5 - 1907.5    | 0.01406        | 11.48            | 4M51G7D             | QPSK       |
| LTE Band 2  | 24E           | 1852.5 - 1907.5    | 0.01130        | 10.53            | 4M51W7D             | 16QAM      |
| LTE Band 2  | 24E           | 1855 - 1905        | 0.01393        | 11.44            | 9M03G7D             | QPSK       |
| LTE Band 2  | 24E           | 1855 - 1905        | 0.01119        | 10.49            | 9M03W7D             | 16QAM      |
| LTE Band 2  | 24E           | 1857.5 - 1902.5    | 0.01409        | 11.49            | 13M5G7D             | QPSK       |
| LTE Band 2  | 24E           | 1857.5 - 1902.5    | 0.01130        | 10.53            | 13M5W7D             | 16QAM      |
| LTE Band 2  | 24E           | 1860 - 1900        | 0.01422        | 11.53            | 18M0G7D             | QPSK       |
| LTE Band 2  | 24E           | 1860 - 1900        | 0.01130        | 10.53            | 18M1W7D             | 16QAM      |
| LTE Band 25 | 24E           | 1850.7 - 1914.3    | 0.01334        | 11.25            | 1M08G7D             | QPSK       |
| LTE Band 25 | 24E           | 1850.7 - 1914.3    | 0.01067        | 10.28            | 1M07W7D             | 16QAM      |
| LTE Band 25 | 24E           | 1851.5 - 1913.5    | 0.01371        | 11.37            | 2M71G7D             | QPSK       |
| LTE Band 25 | 24E           | 1851.5 - 1913.5    | 0.01199        | 10.79            | 2M72W7D             | 16QAM      |
| LTE Band 25 | 24E           | 1852.5 - 1912.5    | 0.01343        | 11.28            | 4M51G7D             | QPSK       |
| LTE Band 25 | 24E           | 1852.5 - 1912.5    | 0.01130        | 10.53            | 4M51W7D             | 16QAM      |
| LTE Band 25 | 24E           | 1855 - 1910        | 0.01358        | 11.33            | 9M03G7D             | QPSK       |
| LTE Band 25 | 24E           | 1855 - 1910        | 0.01130        | 10.53            | 9M03W7D             | 16QAM      |
| LTE Band 25 | 24E           | 1857.5 - 1907.5    | 0.01416        | 11.51            | 13M5G7D             | QPSK       |
| LTE Band 25 | 24E           | 1857.5 - 1907.5    | 0.01130        | 10.53            | 13M5W7D             | 16QAM      |
| LTE Band 25 | 24E           | 1860 - 1905        | 0.01419        | 11.52            | 18M0G7D             | QPSK       |
| LTE Band 25 | 24E           | 1860 - 1905        | 0.01130        | 10.53            | 18M1W7D             | 16QAM      |
| LTE Band 41 | 27            | 2498.5 - 2687.5    | 0.02710        | 14.33            | 4M50G7D             | QPSK       |
| LTE Band 41 | 27            | 2498.5 - 2687.5    | 0.02113        | 13.25            | 4M50W7D             | 16QAM      |
| LTE Band 41 | 27            | 2501 - 2685        | 0.02729        | 14.36            | 8M99G7D             | QPSK       |
| LTE Band 41 | 27            | 2501 - 2685        | 0.02113        | 13.25            | 9M03W7D             | 16QAM      |
| LTE Band 41 | 27            | 2503.5 - 2682.5    | 0.02780        | 14.44            | 13M5G7D             | QPSK       |
| LTE Band 41 | 27            | 2503.5 - 2682.5    | 0.02163        | 13.35            | 13M5W7D             | 16QAM      |
| LTE Band 41 | 27            | 2506 - 2680        | 0.02780        | 14.44            | 18M0G7D             | QPSK       |
| LTE Band 41 | 27            | 2506 - 2680        | 0.02208        | 13.44            | 18M0W7D             | 16QAM      |

### EUT Overview

|                                               |                                                                                                                                                            |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                               | EUT Type:<br>Watch | Page 5 of 166                   |

## 1.0 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science, and Economic Development Canada.

### 1.2 Testing Facility

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 18855 Adams Court, Morgan Hill, CA 95037.

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 6 of 166                   |

## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A1861**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function. According to the manufacturer, models A1861 and A1958 are electrically identical. Model A1861 was used for final testing.

### 2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, Bluetooth (1x, EDR, LE), NFC

LTE Band 12 (699 - 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 - 716 MHz). Therefore, test data provided in this report covers Band 17 as well as Band 12.

LTE Band 26 (814 - 849 MHz) overlaps the entire frequency range of LTE Band 5 (824 - 849 MHz). Therefore, test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.

LTE Band 25 (1850 - 1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 - 1910 MHz). Therefore, test data provided in this report covers Band 2 as well as Band 25.

### 2.3 Antenna Configuration

The following antenna gains were used for testing.

| Frequency [MHz] | Ant. Gain [dBi] |
|-----------------|-----------------|
| 699-716         | -23.1           |
| 777-787         | -20.8           |
| 814-824         | -20.3           |
| 824-849         | -20.3           |
| 1710-1755       | -13.4           |
| 1850-1915       | -12.5           |
| 2496-2690       | -9.6            |

**Table 2-1. Peak Antenna Gain**

|                                               |                                                                                     |                                                                |                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                        | EUT Type:<br>Watch                                             | Page 7 of 166                   |

## 2.4 Test Support Equipment

|   |                             |        |                    |         |                    |
|---|-----------------------------|--------|--------------------|---------|--------------------|
| 1 | Apple MacBook               | Model: | A1502              | S/N:    | C02NQ01YG465       |
|   | w/ AC/DC Adapter            | Model: | A1435              | S/N:    | C04325505K1F288BG  |
| 2 | Apple USB Cable             | Model: | Kanzi              | S/N:    | 20153D             |
|   | w/ Charging Dock            | Model: | FAPS61             | S/N:    | 6304000736         |
|   | w/ Dock                     | Model: | X241               | S/N:    | SJH3002AP2AS       |
| 3 | USB Cable                   | Model: | N/A                | S/N:    | N/A                |
|   |                             |        | Shielded USB Cable |         |                    |
| 4 | w/ AC Adapter               | Model: | B353               | S/N:    | N/A                |
| 5 | Test Pathfinder Board       | Model: | X988               | S/N:    | FGH7648700BDHMV323 |
| 6 | Wireless Charging Pad (WCP) | Model: | A1598              | FCC ID: | BCGA1598           |

**Table 2-2. Test Equipment**

## 2.5 Test Configuration

The EUT was tested per the guidance of ANSI/TIA-603-E-2016 and KDB 971168 D01 v02r02. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on a certified wireless charging pad (WCP) while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

The worst case configuration was investigated for all combinations of the three materials, aluminum, ceramic, and stainless steel, and various types of wristbands, metal and non-metal wrist bands. The store display sample was investigated with the three types of EUTs. The EUT was also investigated with and without wireless charger.

The worst case configuration found was used for all testing. The worst case material was aluminum. The worst case accessory was metal wristband but no significant difference was found between various types of wrist bands.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

## 2.6 Software and Firmware

The test was conducted with firmware version 15R328 installed on the EUT.

For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance.

## 2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

|                                               |                                                                                     |                                                                |                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                        | EUT Type:<br>Watch                                             | Page 8 of 166                   |

## 3.0 DESCRIPTION OF TESTS

### 3.1 Measurement Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-D-2010) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168 D01 v02r02) were used in the measurement of the EUT.

### 3.1 Block C Frequency Range

#### §27.5(b)(3)

Two paired channels of 11 megahertz each are available for assignment in Block C in the 746-757 MHz and 776-787 MHz bands. In the event that no licenses for two channels in this Block C are assigned based on the results of the first auction in which such licenses were offered because the auction results do not satisfy the applicable reserve price, the spectrum in the 746-757 MHz and 776-787 MHz bands will instead be made available for assignment at a subsequent auction as follows: (i) Two paired channels of 6 megahertz each available for assignment in Block C1 in the 746-752 MHz and 776-782 MHz bands. (ii) Two paired channels of 5 megahertz each available for assignment in Block C2 in the 752-757 MHz and 782-787 MHz bands.

### 3.2 Block A Frequency Range

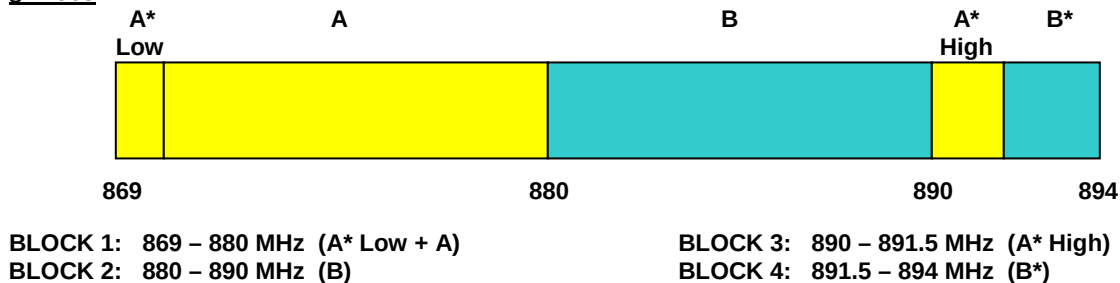
#### §27.5(c)

698-746 MHz band. The following frequencies are available for licensing pursuant to this part in the 698-746 MHz band: (1) Three paired channel blocks of 12 megahertz each are available for assignment as follows:

Block A: 698-704 MHz and 728-734 MHz;  
Block B: 704-710 MHz and 734-740 MHz; and  
Block C: 710-716 MHz and 740-746 MHz.

### 3.3 Cellular - Base Frequency Blocks

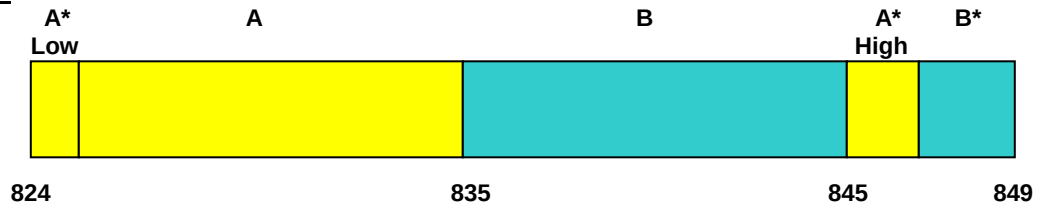
#### §22.905



|                                               |                                                                                     |                                                                |                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                        | EUT Type:<br>Watch                                             | Page 9 of 166                   |

### 3.4 Cellular - Mobile Frequency Blocks

§22.905



BLOCK 1: 824 – 835 MHz (A\* Low + A)

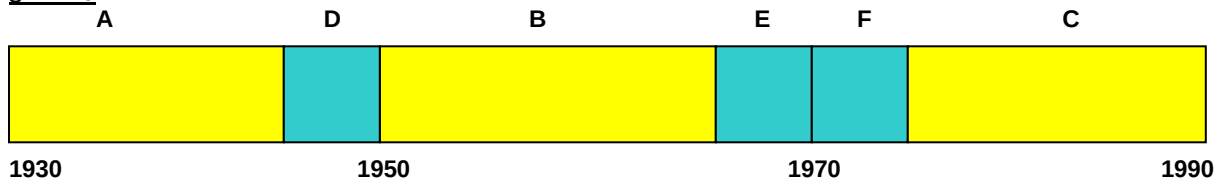
BLOCK 2: 835 – 845 MHz (B)

BLOCK 3: 845 – 846.5 MHz (A\* High)

BLOCK 4: 846.5 – 849 MHz (B\*)

### 3.5 PCS - Base Frequency Blocks

§24.229



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 3: 1950 – 1965 MHz (B)

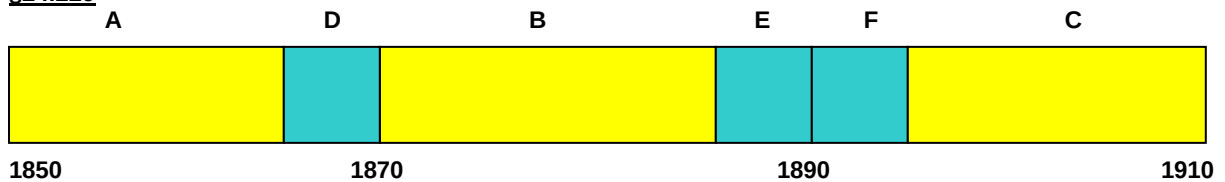
BLOCK 4: 1965 – 1970 MHz (E)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 6: 1975 – 1990 MHz (C)

### 3.6 PCS - Mobile Frequency Blocks

§24.229



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 3: 1870 – 1885 MHz (B)

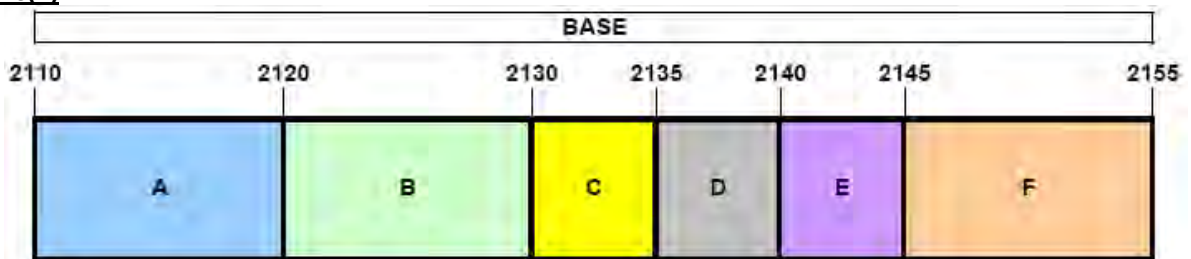
BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 5: 1890 – 1895 MHz (F)

BLOCK 6: 1895 – 1910 MHz (C)

### 3.7 AWS - Base Frequency Blocks

§27.5(h)



BLOCK 1: 2110 – 2120 MHz (A)

BLOCK 2: 2120 – 2130 MHz (B)

BLOCK 3: 2130 – 2135 MHz (C)

BLOCK 4: 2135 – 2140 MHz (D)

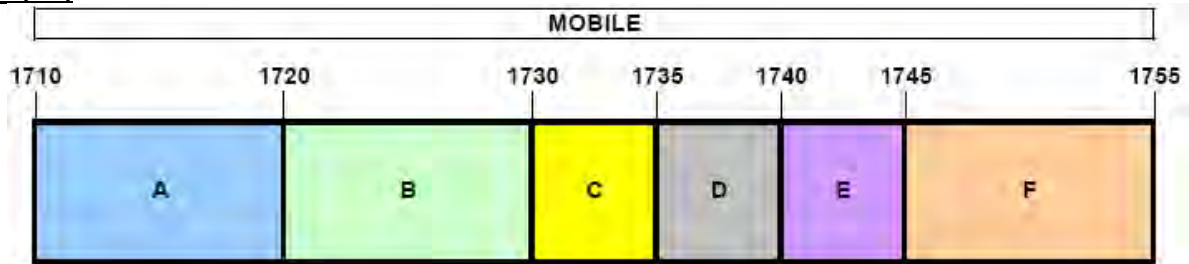
BLOCK 5: 2140 – 2145 MHz (E)

BLOCK 6: 2145 – 2155 MHz (F)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
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| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 10 of 166                  |

### 3.8 AWS - Mobile Frequency Blocks

§27.5(h.2)

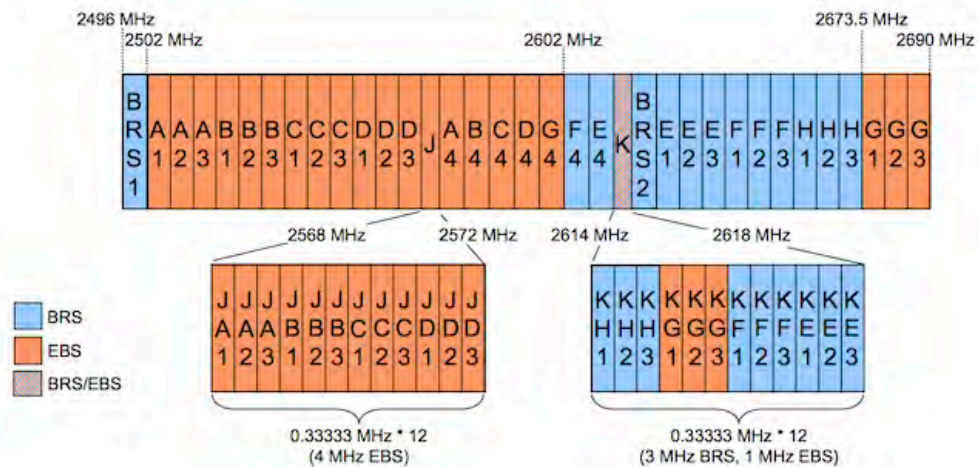


BLOCK 1: 1710 – 1720 MHz (A)  
BLOCK 2: 1720 – 1730 MHz (B)  
BLOCK 3: 1730 – 1735 MHz (C)

BLOCK 4: 1735 – 1740 MHz (D)  
BLOCK 5: 1740 – 1745 MHz (E)  
BLOCK 6: 1745 – 1755 MHz (F)

### 3.9 BRS/EBS Frequency Block

§27.5



|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
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| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 11 of 166                  |

### 3.10 Radiated Power and Radiated Spurious Emissions

§2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a) §27.50(b.10) §27.50(c.10) §27.50(d.4) §27.53(f) §27.53(g) §27.53(h) §27.53(m)

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high Styrodur Plastic Test Table is placed on top of the turntable.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168 D01 v02r02.

Per the guidance of ANSI/TIA-603-D-2010, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]}$$

Where,  $P_d$  is the dipole equivalent power,  $P_g$  is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to  $P_g \text{ [dBm]} - \text{cable loss [dB]}$ .

The calculated  $P_d$  levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of  $43 + 10\log_{10}(\text{Power [Watts]})$ . For Band 41, the calculated  $P_d$  levels are compared to the absolute spurious emission limit of -25dBm which is equivalent to the required minimum attenuation of  $55 + 10\log_{10}(\text{Power [Watts]})$ .

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 12 of 166                  |

## 4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Contribution                     | Expanded Uncertainty ( $\pm$ dB) |
|----------------------------------|----------------------------------|
| Conducted Bench Top Measurements | 1.13                             |
| Radiated Disturbance (<1GHz)     | 4.98                             |
| Radiated Disturbance (>1GHz)     | 5.07                             |
| Radiated Disturbance (>18GHz)    | 5.09                             |

|                                               |                                                                                     |                                                                |                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                        | EUT Type:<br>Watch                                             | Page 13 of 166                  |

## 5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2006.

| Manufacturer          | Model           | Description                             | Cal Date  | Cal Interval | Cal Due   | Serial Number |
|-----------------------|-----------------|-----------------------------------------|-----------|--------------|-----------|---------------|
| -                     | AM LTX1         | Licensed Transmitter Cable Set          | 3/17/2017 | Annual       | 3/17/2018 | AM LTX1       |
| -                     | EMI 3117-ESW1   | Radiated Cable Set                      | 3/1/2017  | Biennial     | 3/1/2018  | N/A           |
| -                     | EMI HL562E-ESW1 | Radiated Cable Set                      | 2/28/2017 | Biennial     | 2/28/2018 | N/A           |
| ESPEC                 | SU-241          | Temperature Chamber                     | 3/10/2017 | Annual       | 3/10/2018 | 92009574      |
| Keysight Technologies | N9030A          | 3Hz-44Ghz PXA Signal Analyzer           | 3/13/2017 | Annual       | 3/13/2018 | MY49430244    |
| Pasternack            | NC100           | Torque Wrench                           | 8/21/2015 | Biennial     | 8/21/2017 | 81968         |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester     | 1/10/2017 | Annual       | 1/10/2018 | 161675        |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester     | 5/8/2017  | Annual       | 5/8/2018  | 161616-DF     |
| Rohde & Schwarz       | ESW26           | ESW26 EMI Test Receiver                 | 1/20/2017 | Annual       | 1/20/2018 | 101299        |
| Rohde & Schwarz       | HL562E          | Bi-Log Antenna (30MHz - 6GHz)           | 1/19/2017 | Annual       | 1/19/2018 | 100610        |
| Rohde & Schwarz       | OSP130          | Open Switch and control unit            | 1/18/2017 | Annual       | 1/18/2018 | 100970        |
| Rohde & Schwarz       | SFUNIT-RX       | TS-SFUNIT SHIELDED FILTER UNIT          | 2/3/2017  | Annual       | 2/3/2018  | 102131        |
| Rohde & Schwarz       | TS-PR8          | Pre-amplifier (30MHz - 8GHz)            | 2/3/2017  | Annual       | 2/3/2018  | 102325        |
| Rohde & Schwarz       | TC-TA18         | CROSS POL. VIVALDI ANT (400MHz - 18GHz) | 11/8/2016 | Annual       | 11/8/2017 | 101056-AE     |

**Table 5-1. Test Equipment**

|                                               |                                                                                     |                                                                |                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                        | EUT Type:<br>Watch                                             | Page 14 of 166                  |

## 6.0 SAMPLE CALCULATIONS

### Emission Designator

#### QPSK Modulation

**Emission Designator = 8M62G7D**

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

#### 16QAM Modulation

**Emission Designator = 8M45W7D**

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

### Spurious Radiated Emission – LTE Band

#### **Example: Middle Channel LTE Mode 2<sup>nd</sup> Harmonic (1564 MHz)**

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was –81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of –81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564 MHz. So 6.1 dB is added to the signal generator reading of –30.9 dBm yielding –24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm – (-24.80).

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 15 of 166                  |

## 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.  
 FCC ID: BCG-A1861  
 FCC Classification: PCS Licensed Transmitter Worn on Body (PCT)  
 Mode(s): LTE

| FCC Part Section(s)                                        | Test Description                                    | Test Limit                                                                                                                                  | Test Condition | Result | Reference              |
|------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|------------------------|
| 2.1049                                                     | Occupied Bandwidth                                  | N/A                                                                                                                                         | CONDUCTED      | PASS   | Section 7.2            |
| 2.1051, 22.917(a), 24.238(a), 27.53(c), 27.53(g), 27.53(h) | Out of Band Emissions                               | > 43 + 10log <sub>10</sub> (P[Watts]) at Band Edge and for all out-of-band emissions                                                        |                | PASS   | Section 7.3, 7.4       |
| 27.53(m)                                                   | Out of Band Emissions                               | See 27.53(m)(4)                                                                                                                             |                | PASS   | Section 7.3, 7.4       |
| 24.232(d)                                                  | Peak-Average Ratio                                  | < 13 dB                                                                                                                                     |                | PASS   | Section 7.5            |
| 2.1046                                                     | Transmitter Conducted Output Power                  | N/A                                                                                                                                         |                | PASS   | See RF Exposure Report |
| 22.913(a.2)                                                | Effective Radiated Power (Band 5/26)                | < 7 Watts max. ERP                                                                                                                          |                | PASS   | Section 7.6            |
| 27.50(b.10), 27.50(c.10)                                   | Effective Radiated Power (Band 12/17 13)            | < 3 Watts max. ERP                                                                                                                          |                | PASS   | Section 7.6            |
| 24.232(c) 27.50(h.2)                                       | Equivalent Isotropic Radiated Power (Band 2/25, 41) | < 2 Watts max. EIRP                                                                                                                         |                | PASS   | Section 7.6            |
| 27.50(d.4)                                                 | Equivalent Isotropic Radiated Power (Band 4)        | < 1 Watts max. EIRP                                                                                                                         |                | PASS   | Section 7.6            |
| 2.1055, 22.355, 24.235, 27.54                              | Frequency Stability                                 | < 2.5 ppm (Part 22) and fundamental emissions stay within authorized frequency block (Part 24, 27)                                          | RADIATED       | PASS   | Section 7.9            |
| 2.1053, 22.917(a), 24.238(a), 27.53(c), 27.53(g), 27.53(h) | Undesirable Emissions (Band 12/17, 5/26, 4, 2/25)   | > 43 + 10log <sub>10</sub> (P[Watts]) for all out-of-band emissions                                                                         |                | PASS   | Section 7.7            |
| 27.53(f)                                                   | Undesirable Emissions (Band 13)                     | < -70 dBW/MHz (for wideband signals)<br>< -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 – 1610 MHz |                | PASS   | Section 7.7            |
| 27.53(m)                                                   | Undesirable Emissions (Band 41)                     | See 27.53(m)(4)                                                                                                                             |                | PASS   | Section 7.7            |

**Table 7-1. Summary of Test Results**

**Notes:**

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots (Sections 7.2, 7.3, 7.4, 7.5) were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "LTE Automation," Version 4.8.

|                                               |                                                                                     |                                                                |                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                        | EUT Type:<br>Watch                                             | Page 16 of 166                  |

## 7.2 Occupied Bandwidth

### §2.1049

#### Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### Test Procedure Used

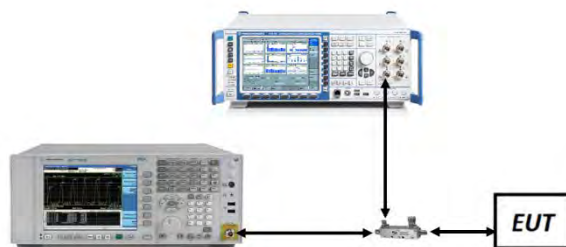
KDB 971168 D01 v02r02 – Section 4.2

#### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

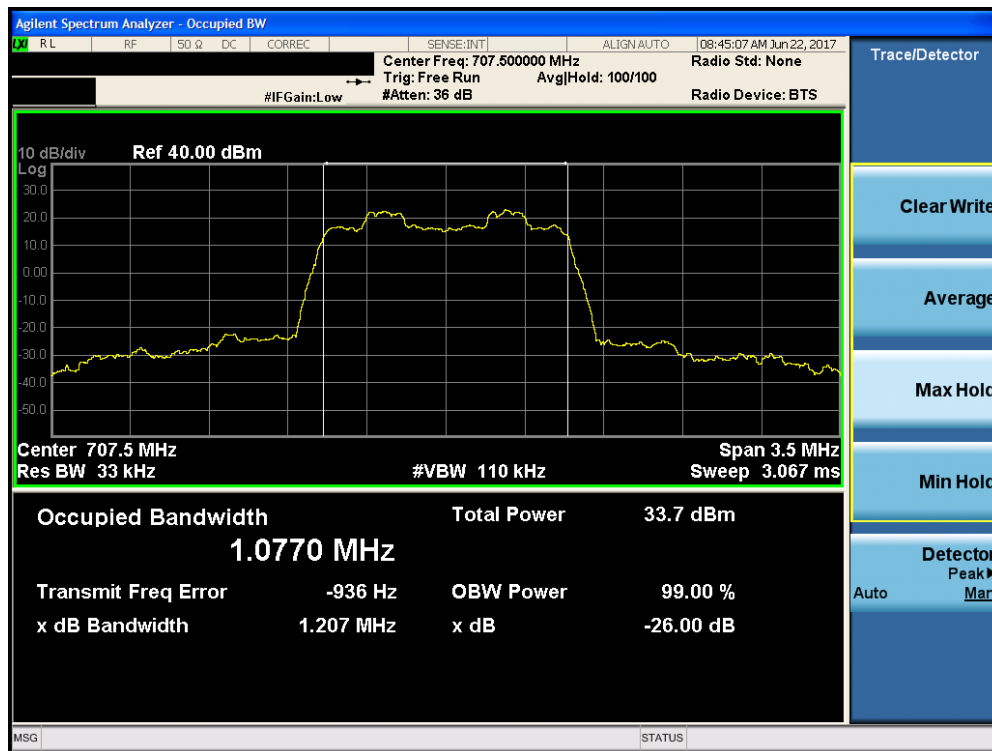


**Figure 7-1. Test Instrument & Measurement Setup**

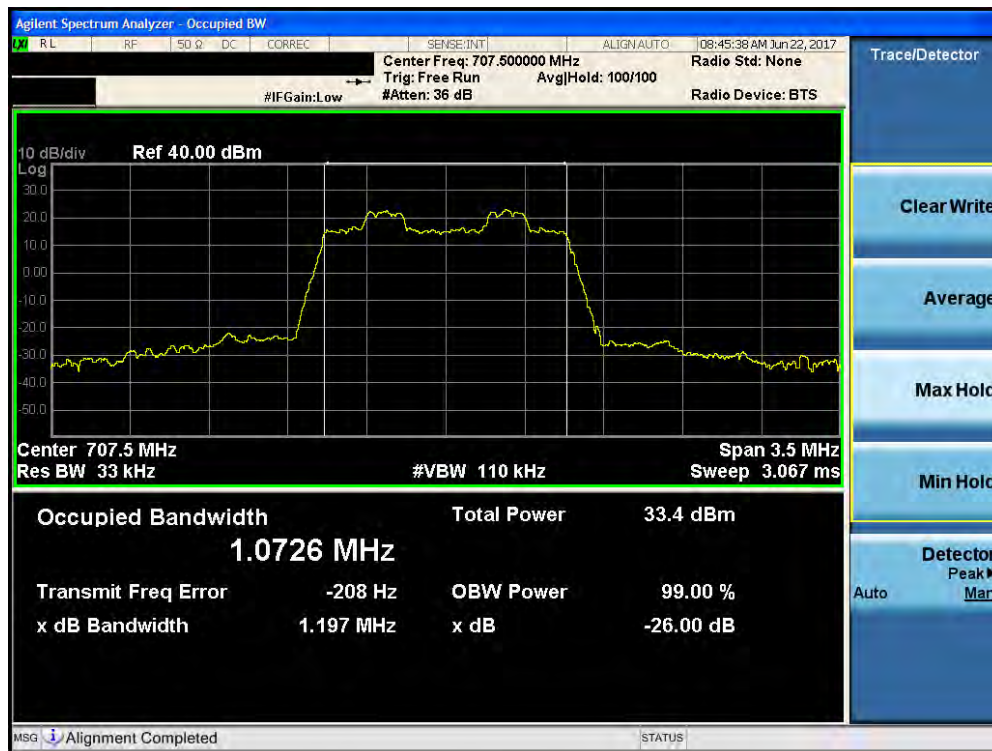
#### Test Notes

None.

|                                               |                                                                                                                                                            |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                               | EUT Type:<br>Watch | Page 17 of 166                  |

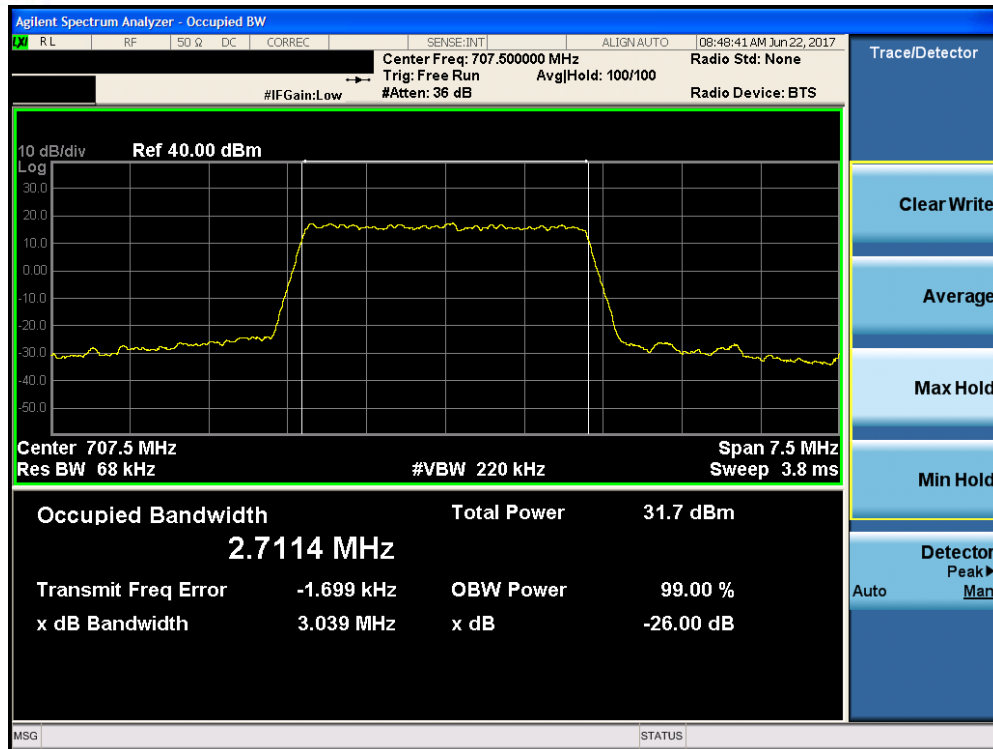


Plot 7-1. Occupied Bandwidth Plot (Band 12 – 1.4MHz QPSK – RB Size 6)

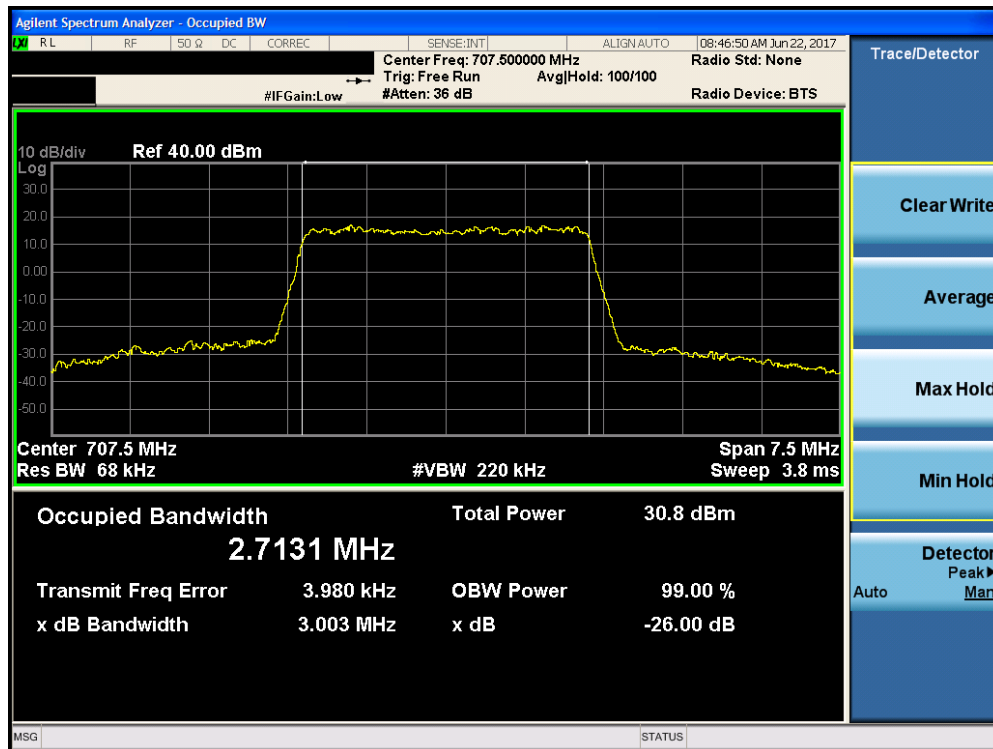


Plot 7-2. Occupied Bandwidth Plot (Band 12 – 1.4MHz 16-QAM – RB Size 6)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 18 of 166                  |

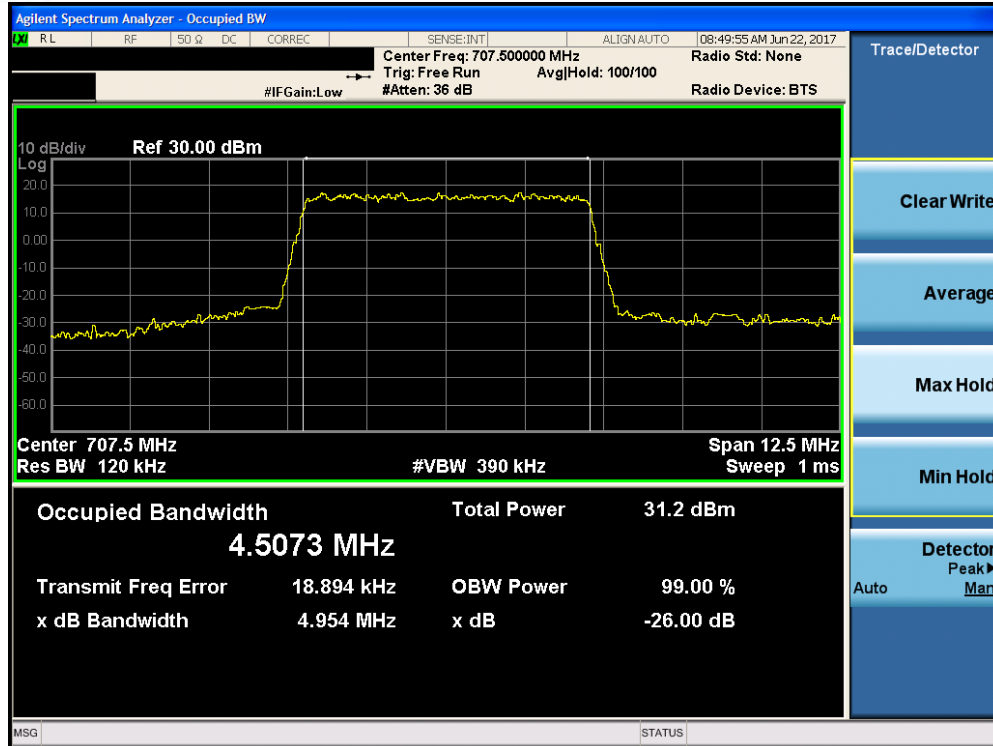


Plot 7-3. Occupied Bandwidth Plot (Band 12 – 3.0MHz QPSK – RB Size 15)

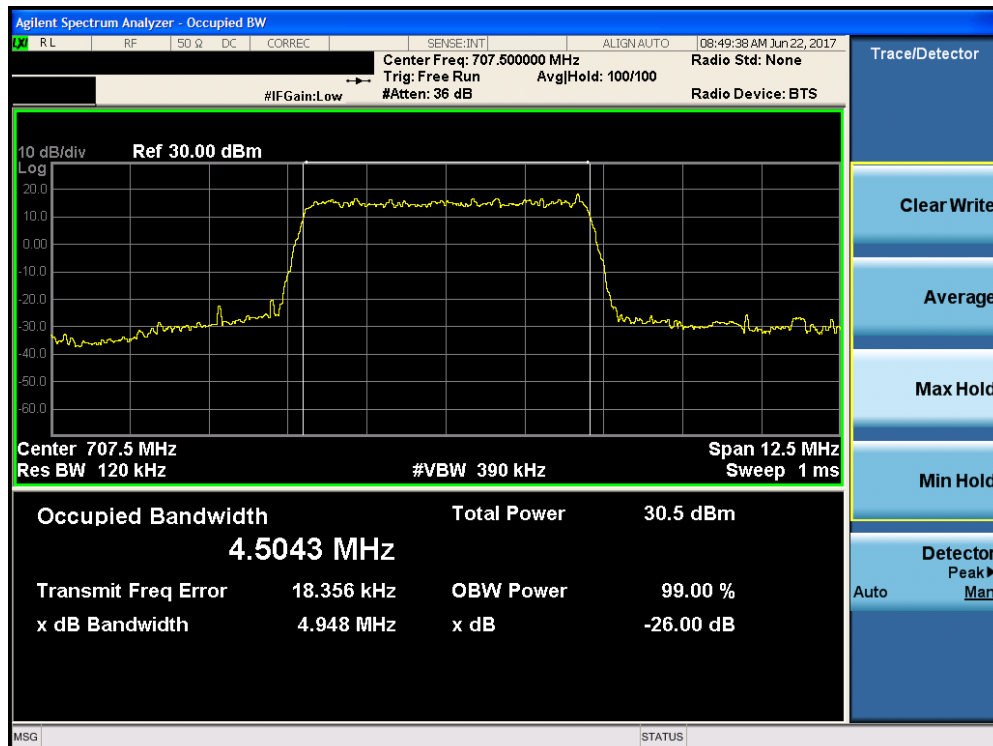


Plot 7-4. Occupied Bandwidth Plot (Band 12 – 3.0MHz 16-QAM – RB Size 15)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 19 of 166                  |

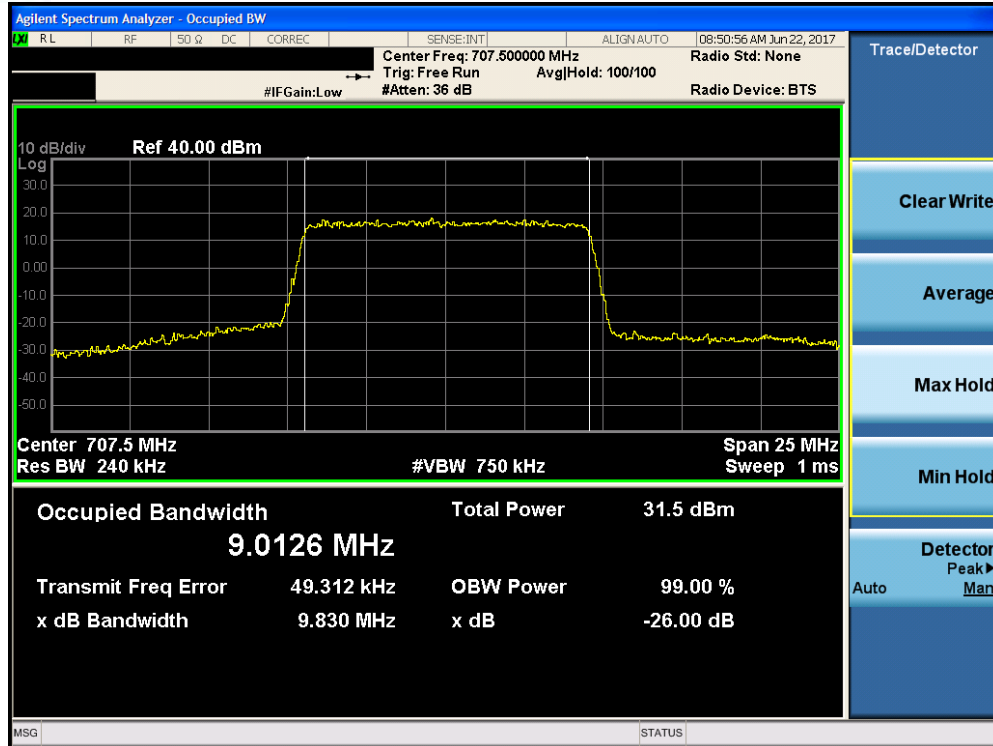


Plot 7-5. Occupied Bandwidth Plot (Band 12/17 – 5.0MHz QPSK – RB Size 25)

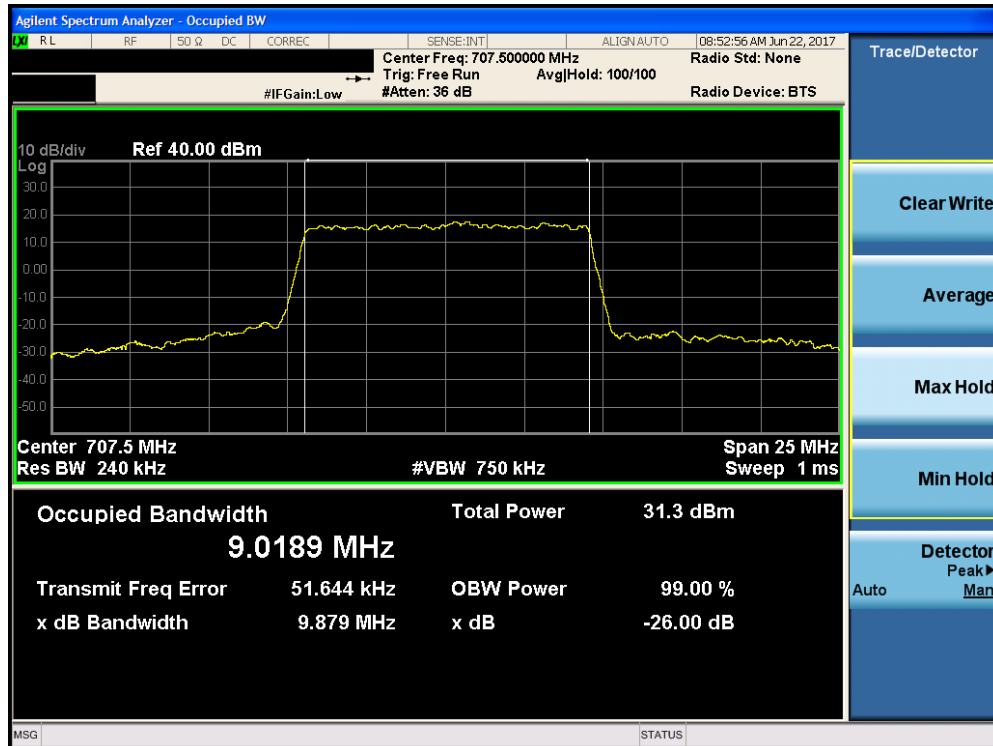


Plot 7-6. Occupied Bandwidth Plot (Band 12/17 – 5.0MHz 16-QAM – RB Size 25)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 20 of 166                  |

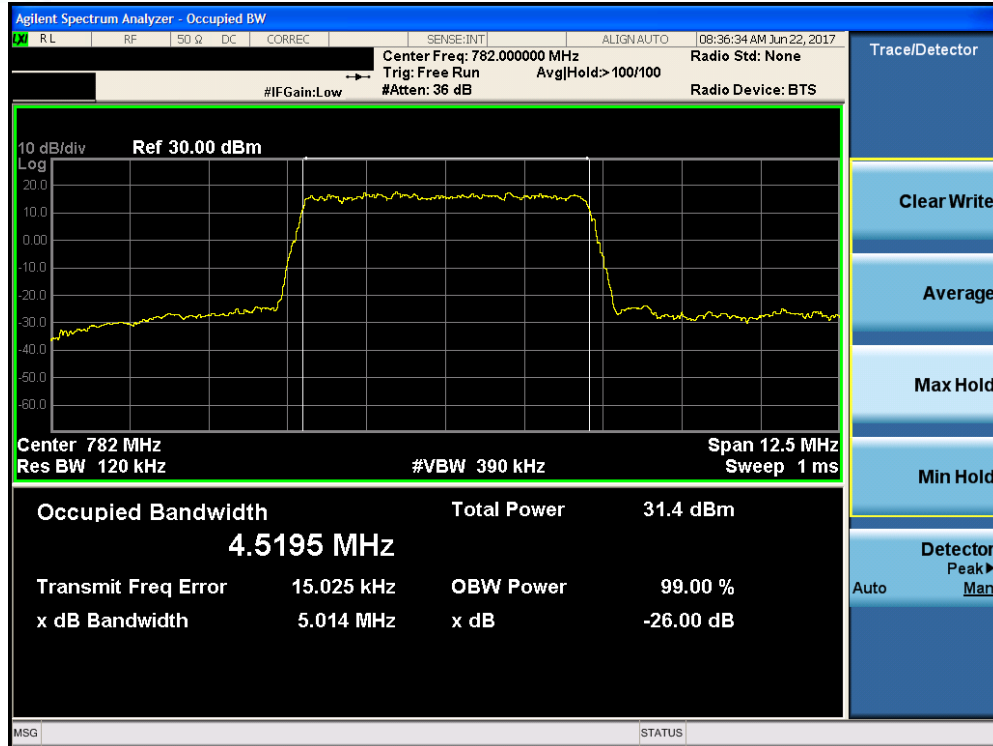


Plot 7-7. Occupied Bandwidth Plot (Band 12/17 – 10.0MHz QPSK – RB Size 50)

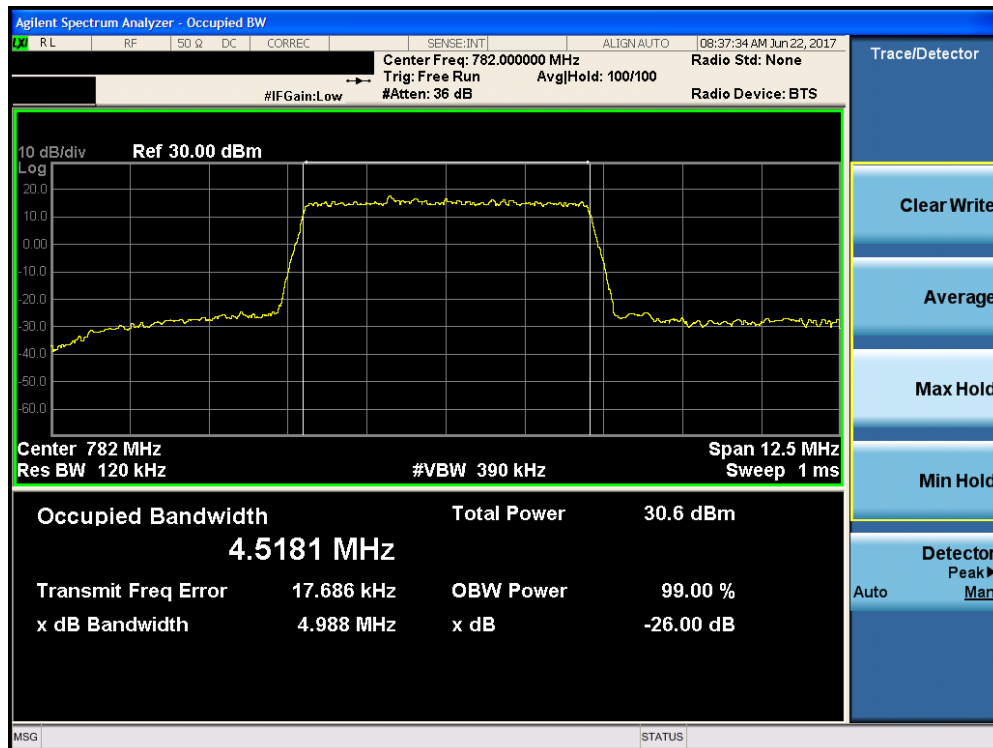


Plot 7-8. Occupied Bandwidth Plot (Band 12/17 – 10.0MHz 16-QAM – RB Size 50)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 21 of 166                  |

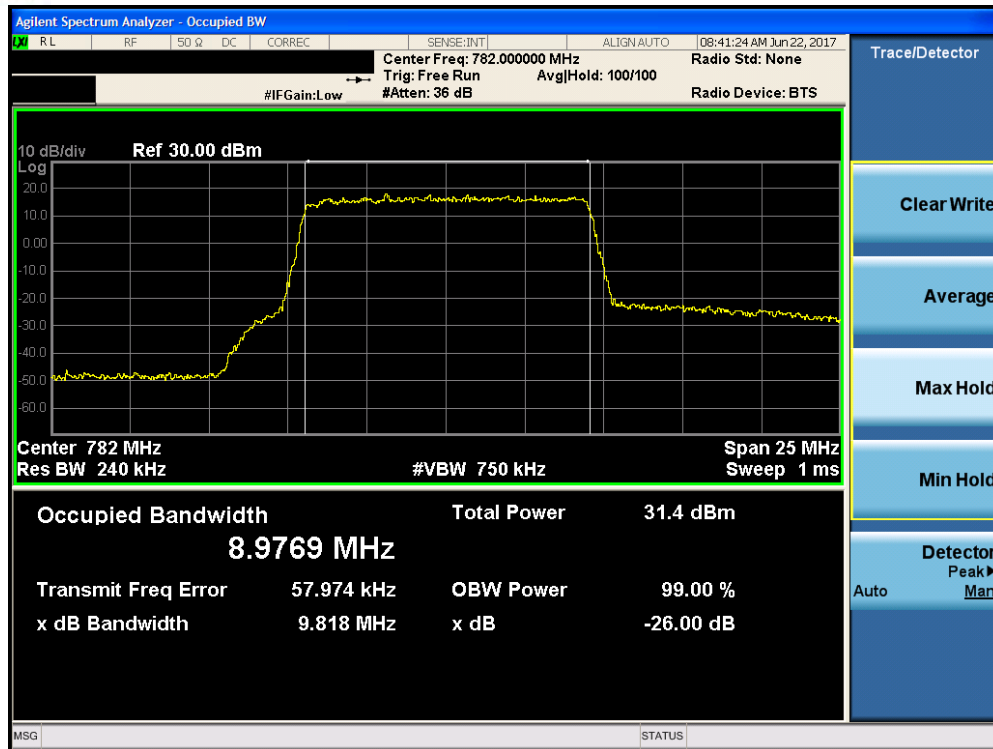


Plot 7-9. Occupied Bandwidth Plot (Band 13 – 5.0MHz QPSK – RB Size 25)

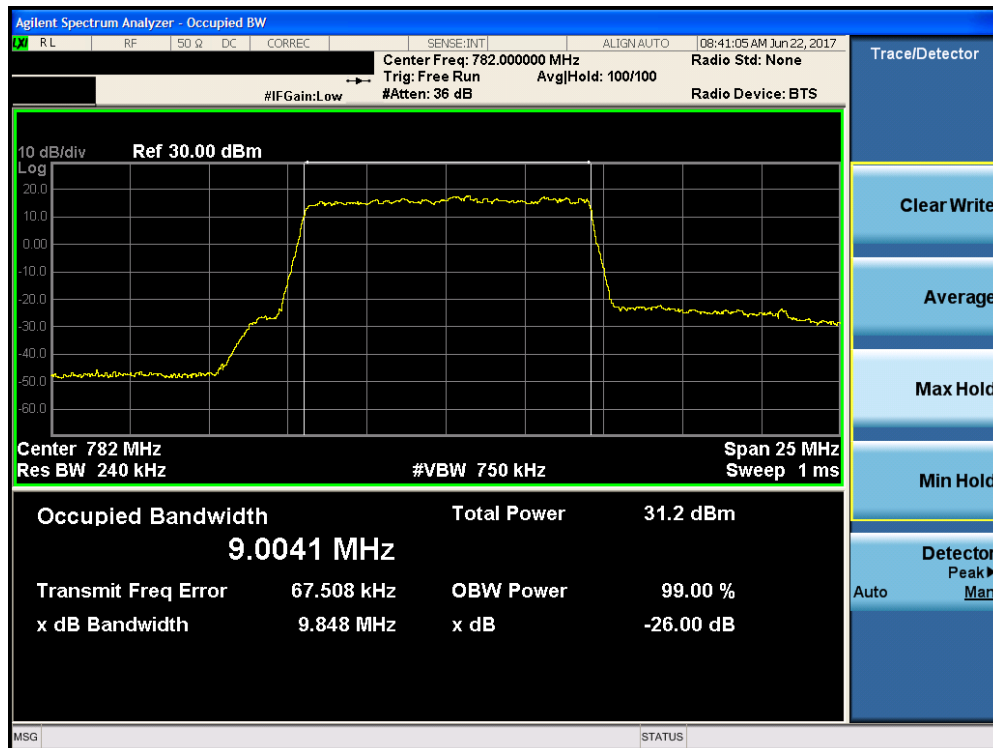


Plot 7-10. Occupied Bandwidth Plot (Band 13 – 5.0MHz 16-QAM – RB Size 25)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 22 of 166                  |

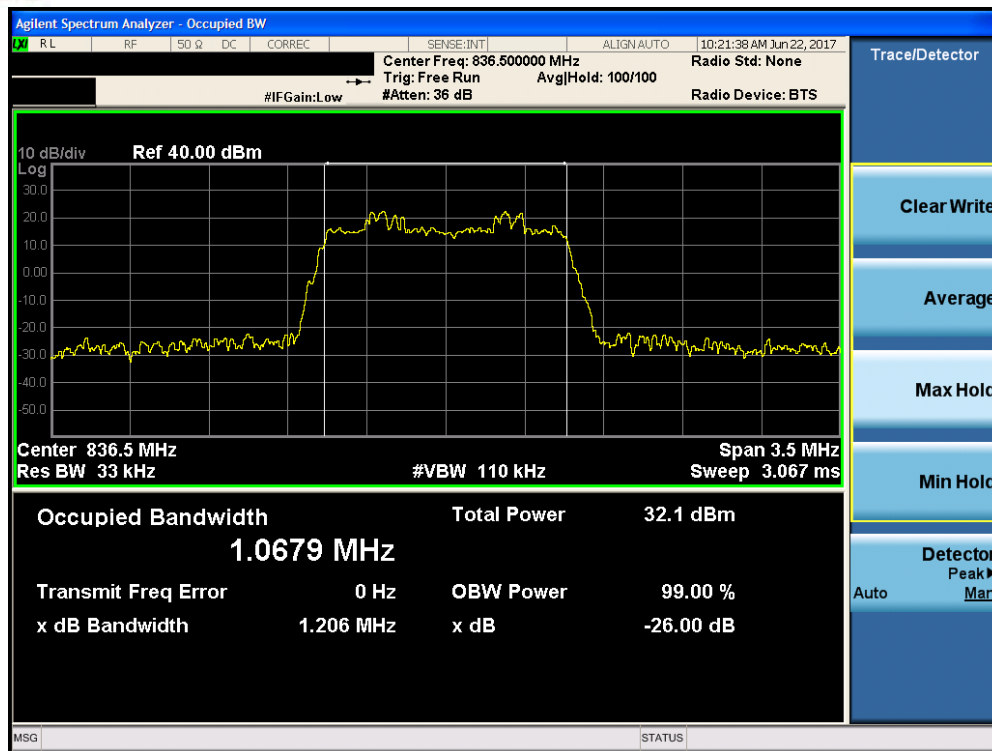


Plot 7-11. Occupied Bandwidth Plot (Band 13 – 10.0MHz QPSK – RB Size 50)

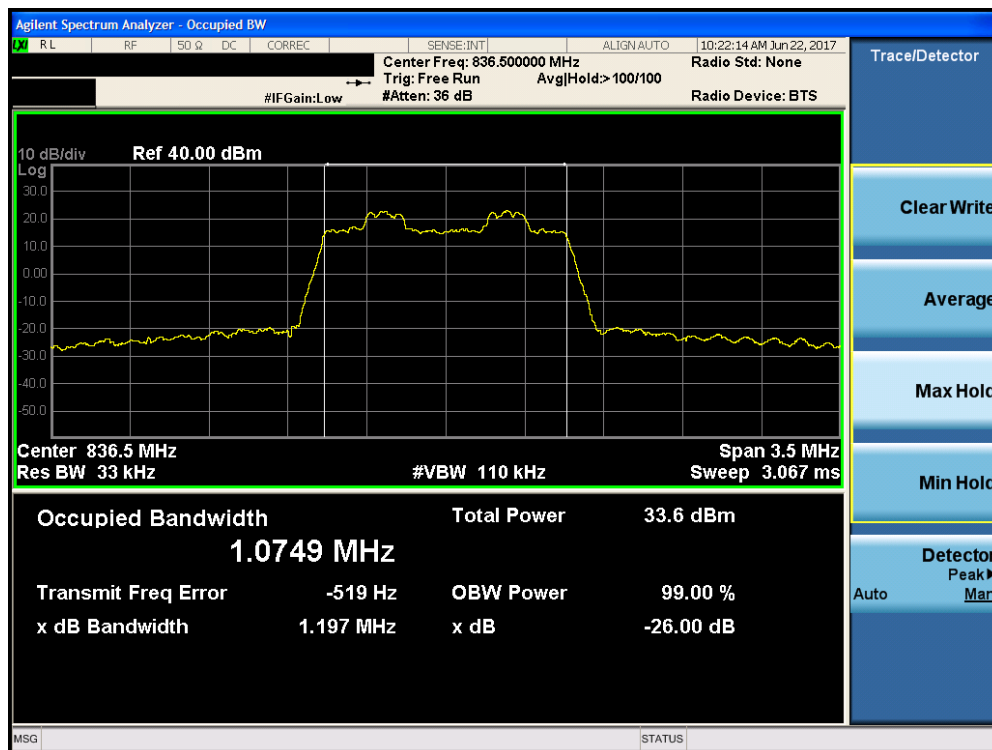


Plot 7-12. Occupied Bandwidth Plot (Band 13 – 10.0MHz 16-QAM – RB Size 50)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 23 of 166                  |

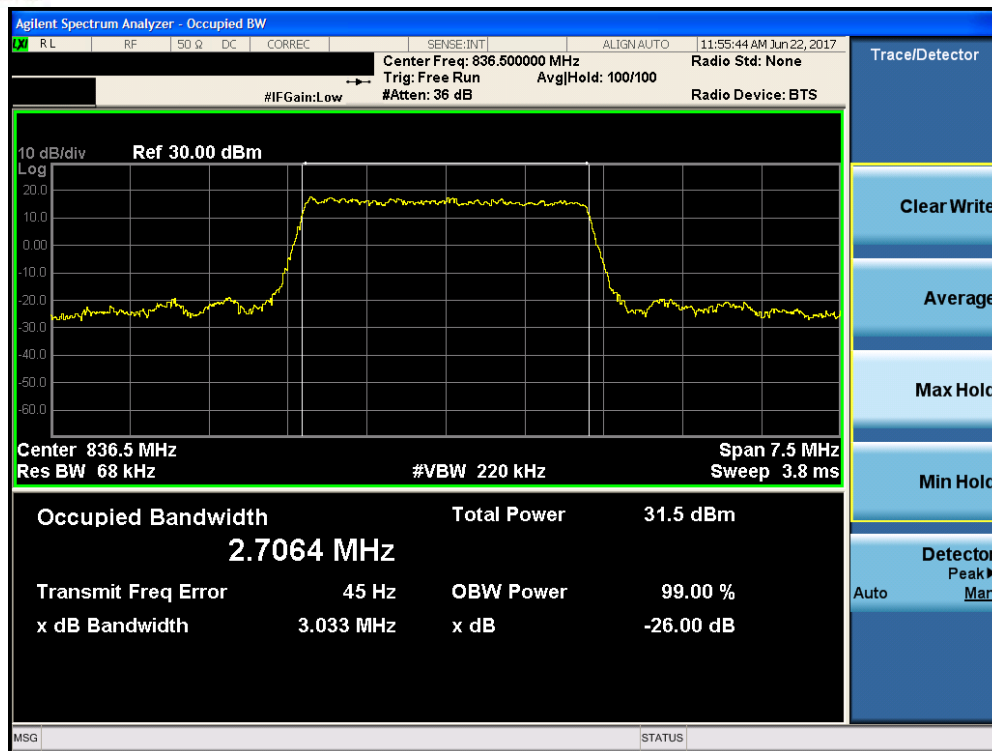


Plot 7-13. Occupied Bandwidth Plot (Band 5/26 – 1.4MHz QPSK – RB Size 6)

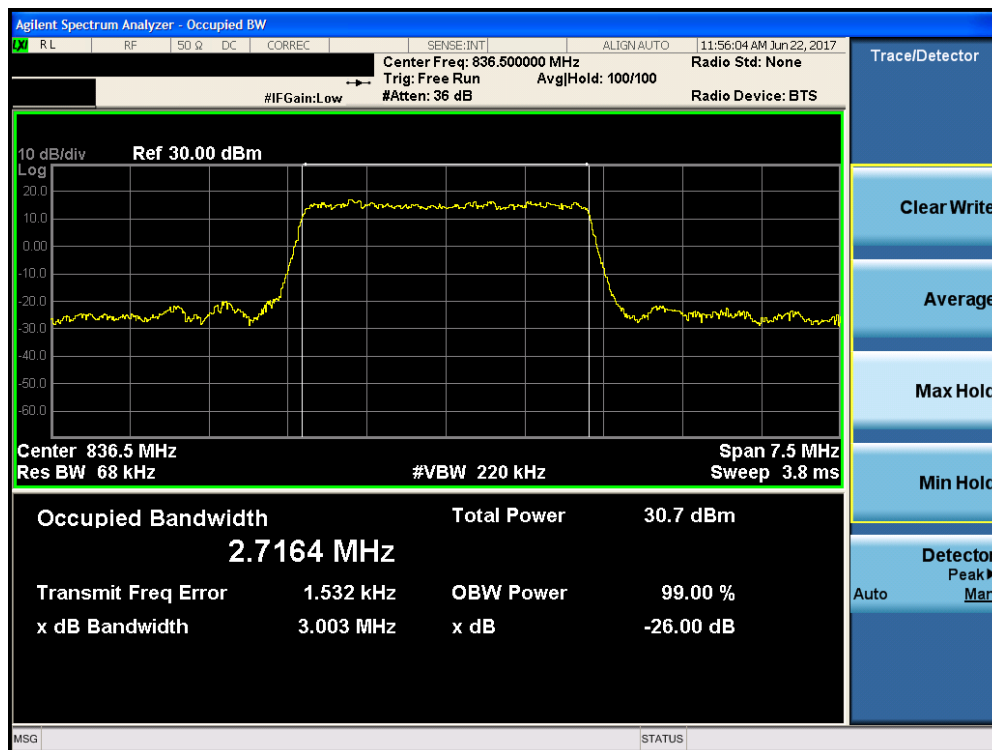


Plot 7-14. Occupied Bandwidth Plot (Band 5/26 – 1.4MHz 16-QAM – RB Size 6)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 24 of 166                  |

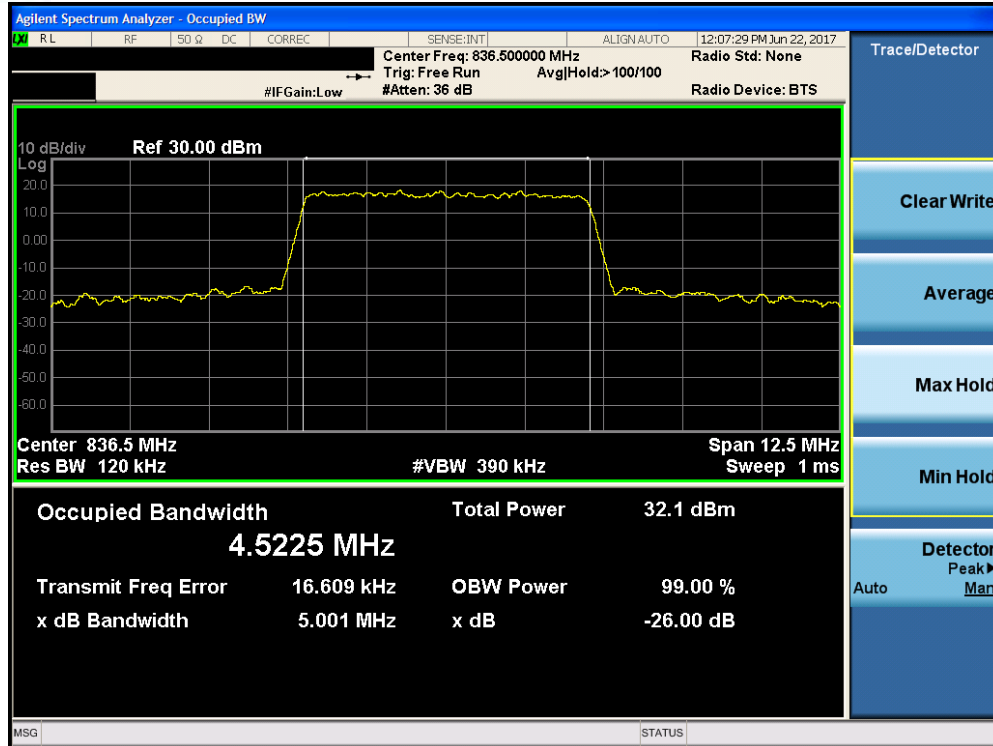


Plot 7-15. Occupied Bandwidth Plot (Band 5/26 – 3.0MHz QPSK – RB Size 15)

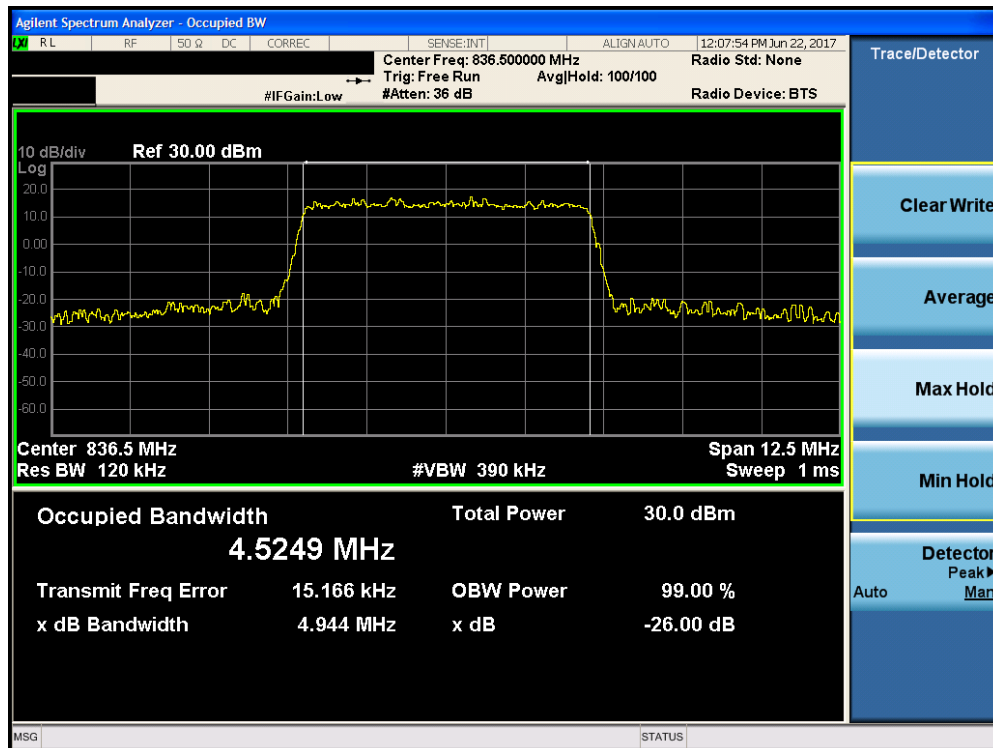


Plot 7-16. Occupied Bandwidth Plot (Band 5/26 – 3.0MHz 16-QAM – RB Size 15)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 25 of 166                  |

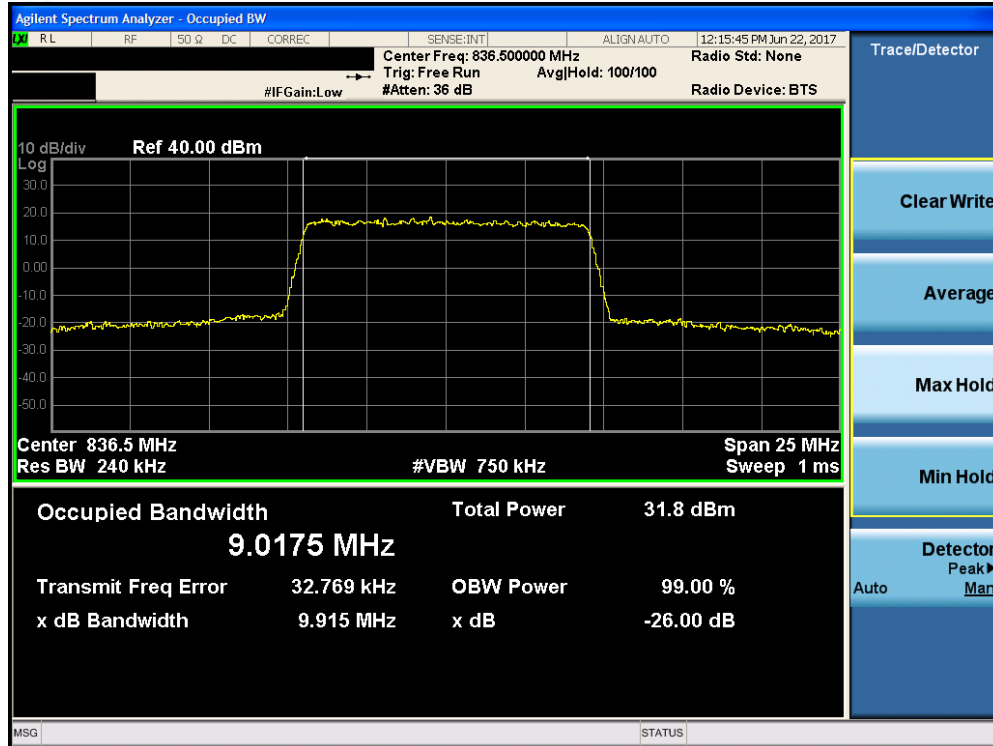


Plot 7-17. Occupied Bandwidth Plot (Band 5/26 – 5.0MHz QPSK – RB Size 25)



Plot 7-18. Occupied Bandwidth Plot (Band 5/26 – 5.0MHz 16-QAM – RB Size 25)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 26 of 166                  |

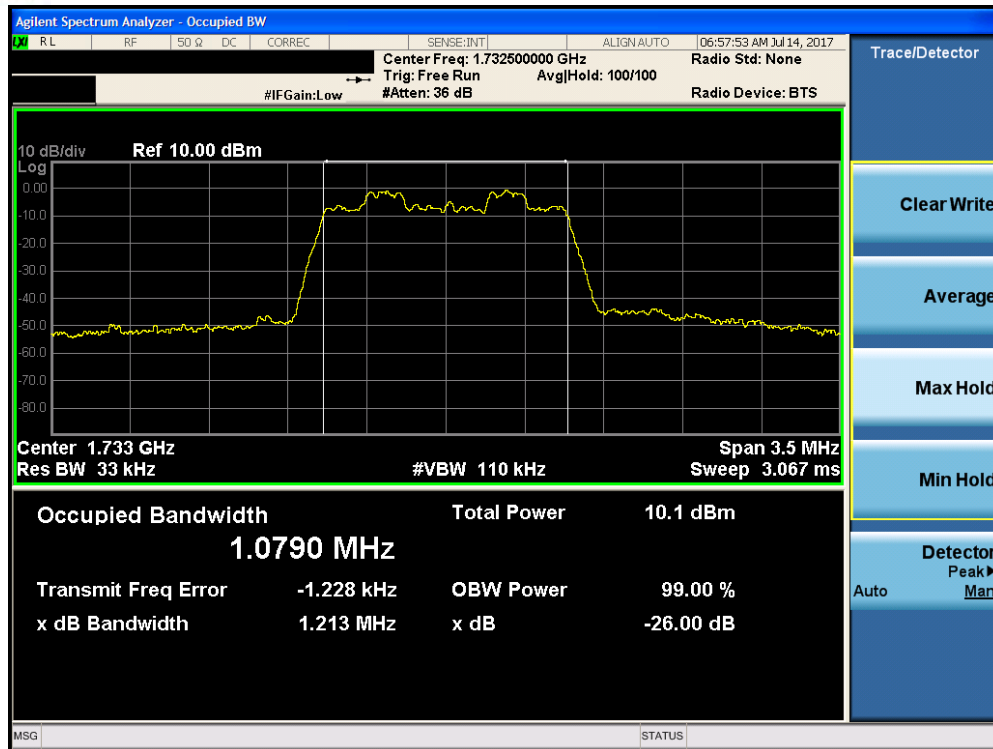


Plot 7-19. Occupied Bandwidth Plot (Band 5/26 – 10.0MHz QPSK – RB Size 50)

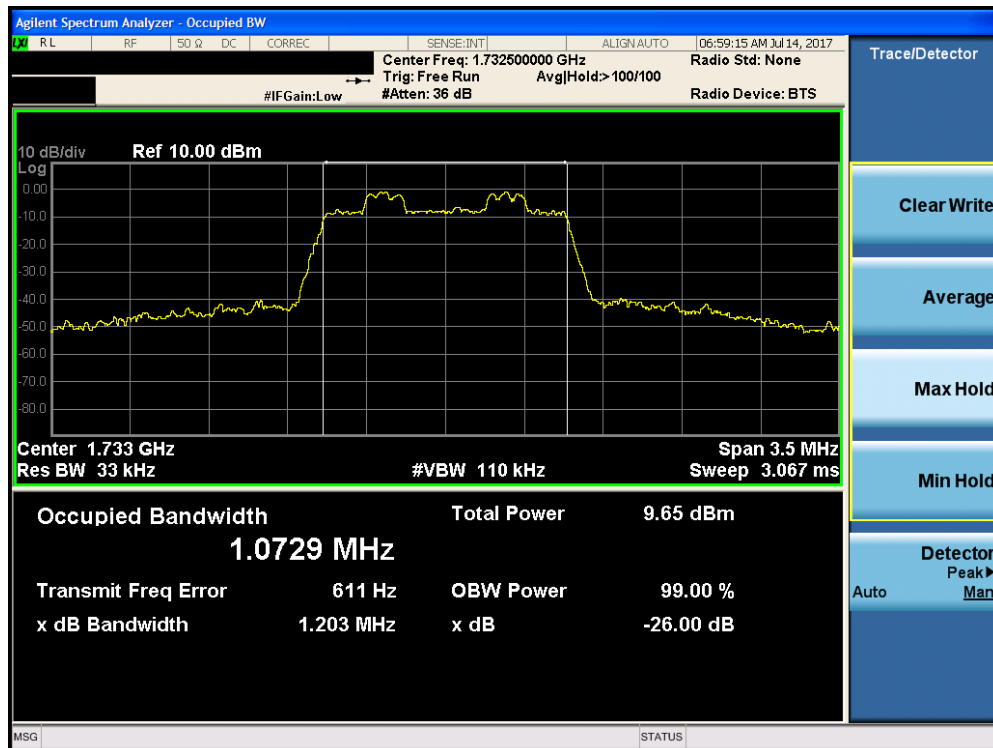


Plot 7-20. Occupied Bandwidth Plot (Band 5/26 – 10.0MHz 16-QAM – RB Size 50)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 27 of 166                  |

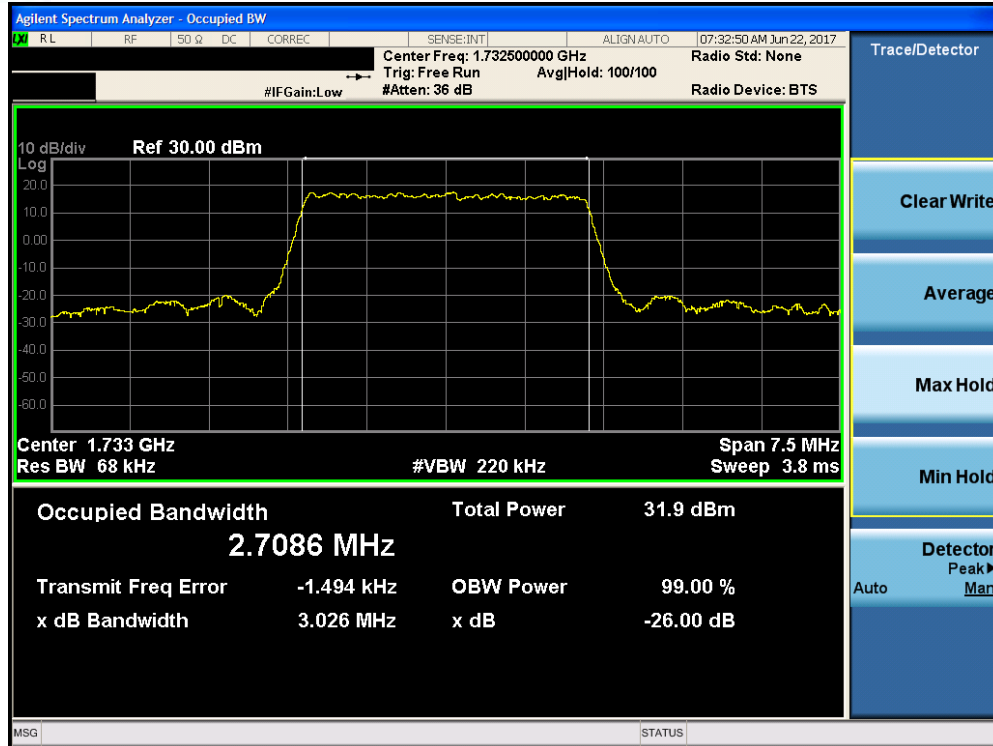


Plot 7-21. Occupied Bandwidth Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

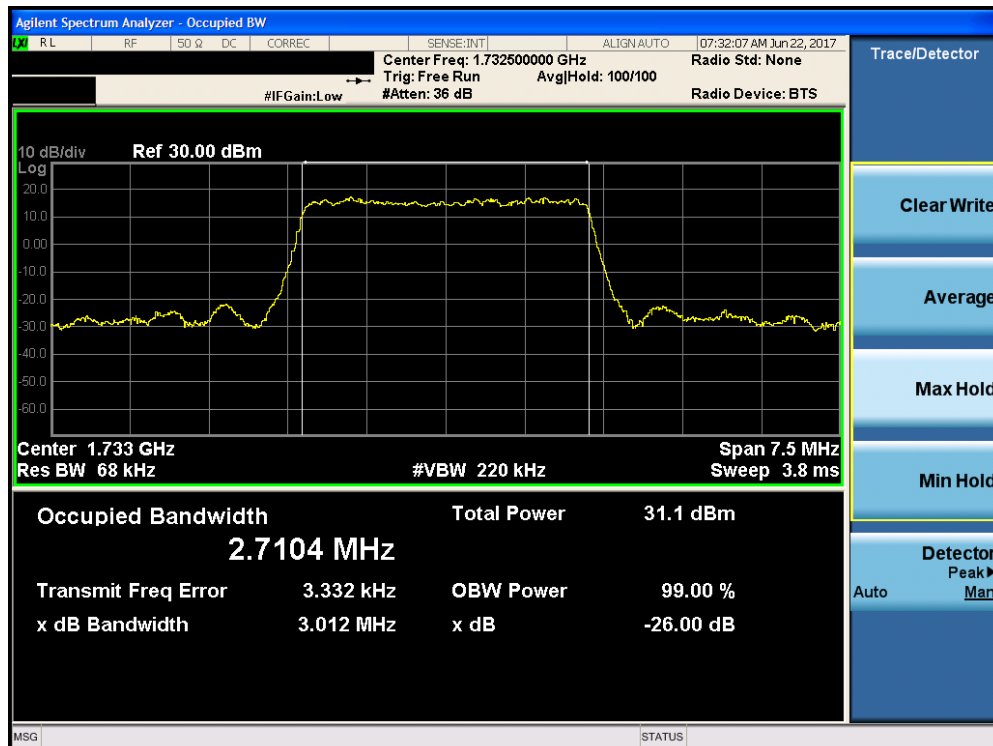


Plot 7-22. Occupied Bandwidth Plot (Band 4 – 1.4MHz 16-QAM – RB Size 6)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 28 of 166                  |

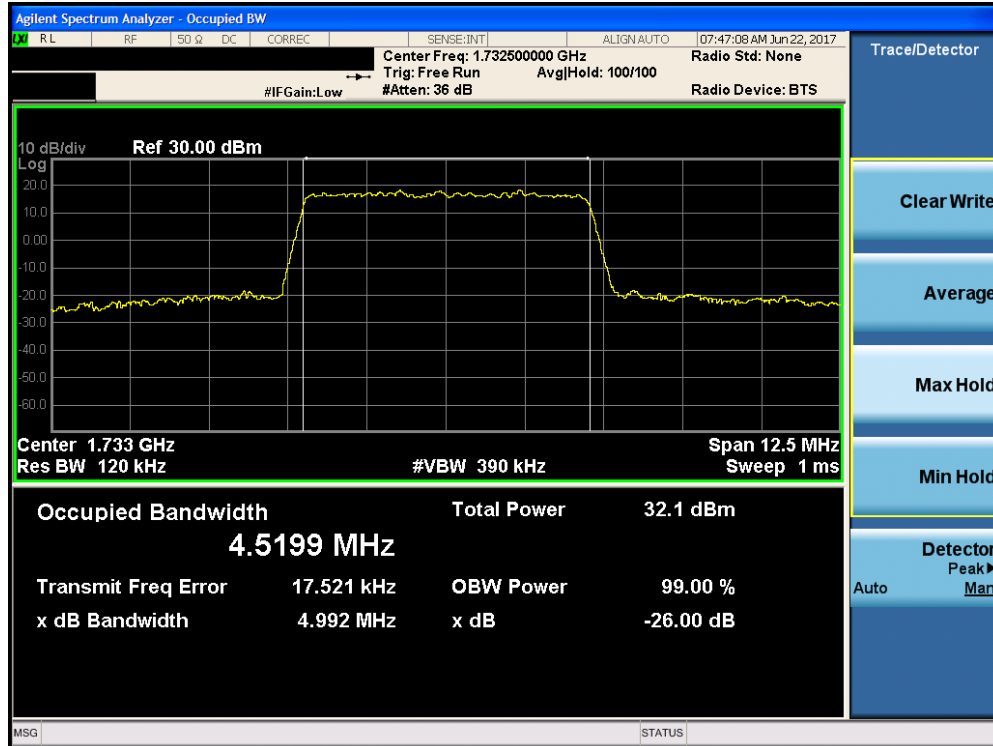


Plot 7-23. Occupied Bandwidth Plot (Band 4 – 3.0MHz QPSK – RB Size 15)

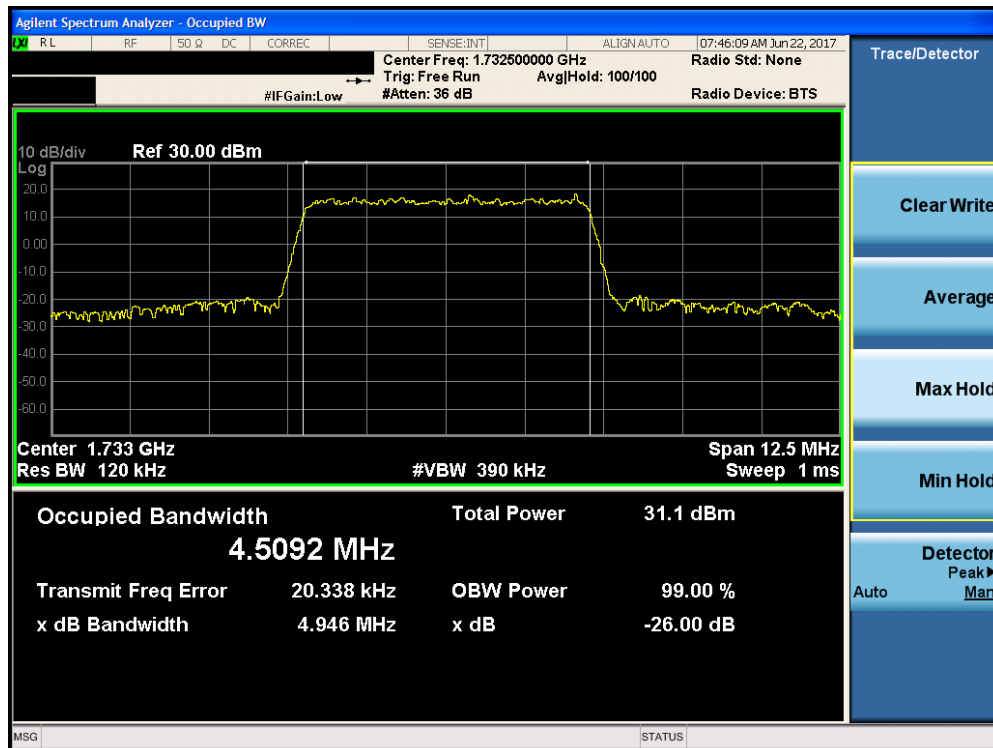


Plot 7-24. Occupied Bandwidth Plot (Band 4 – 3.0MHz 16-QAM – RB Size 15)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 29 of 166                  |

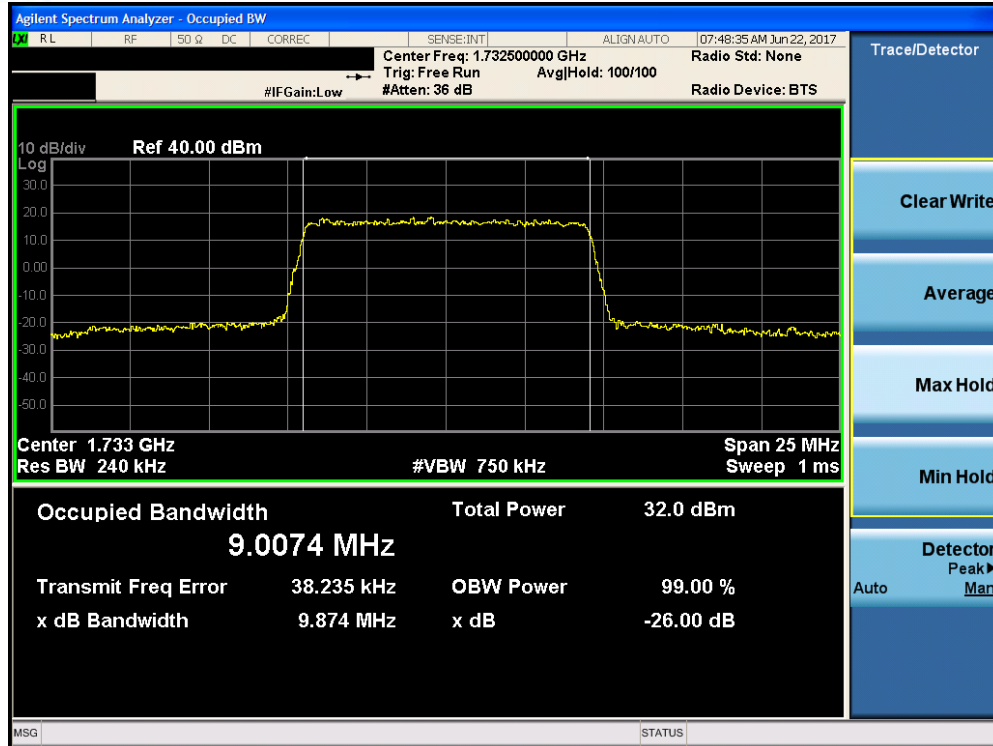


Plot 7-25. Occupied Bandwidth Plot (Band 4 – 5.0MHz QPSK – RB Size 25)

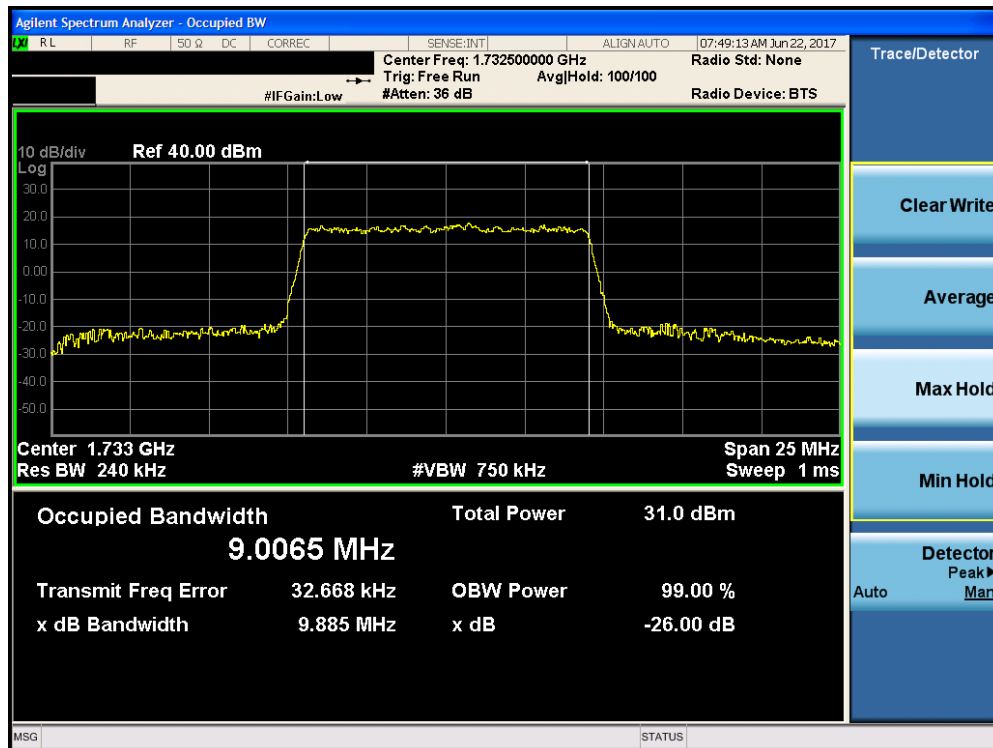


Plot 7-26. Occupied Bandwidth Plot (Band 4 – 5.0MHz 16-QAM – RB Size 25)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 30 of 166                  |

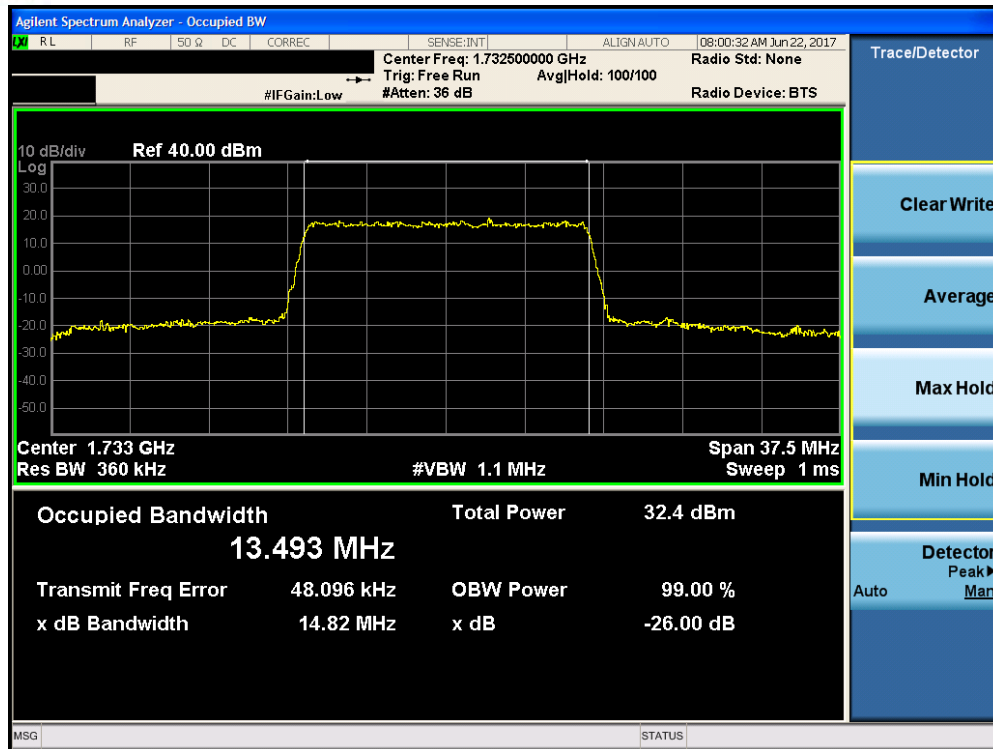


Plot 7-27. Occupied Bandwidth Plot (Band 4 – 10.0MHz QPSK – RB Size 50)

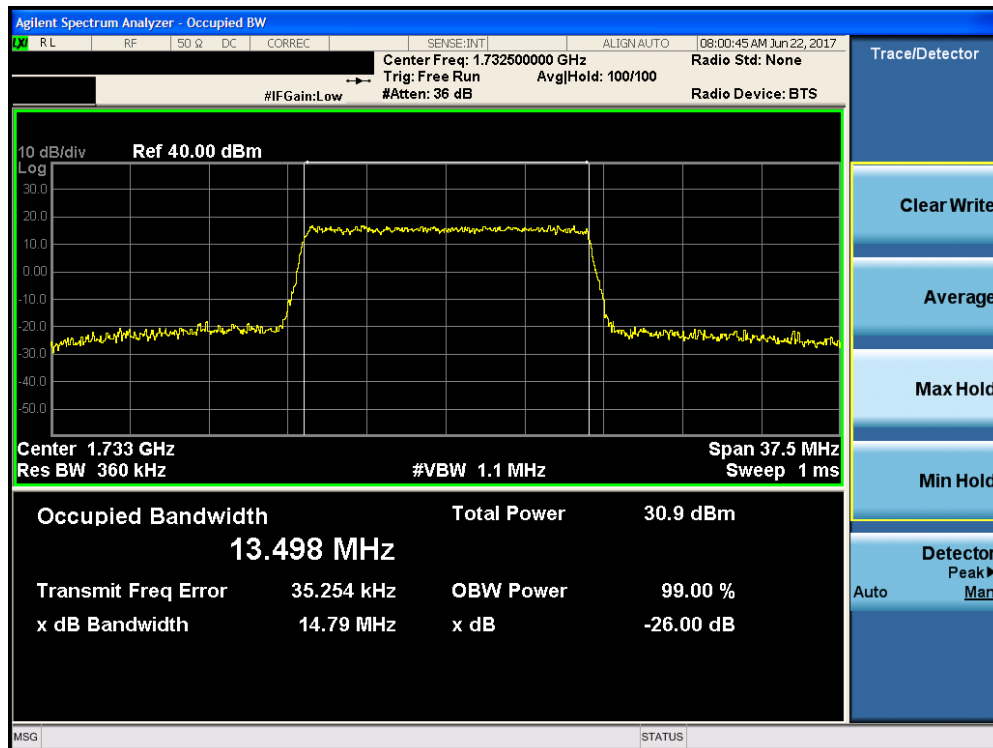


Plot 7-28. Occupied Bandwidth Plot (Band 4 – 10.0MHz 16-QAM – RB Size 50)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 31 of 166                  |

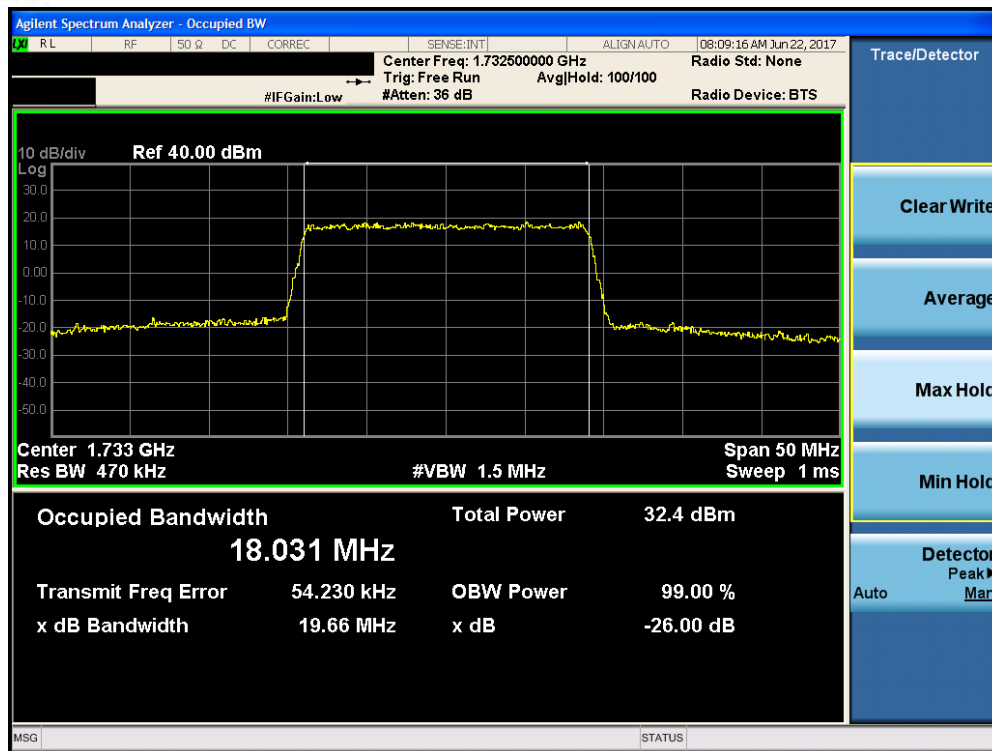


Plot 7-29. Occupied Bandwidth Plot (Band 4 – 15.0MHz QPSK – RB Size 75)

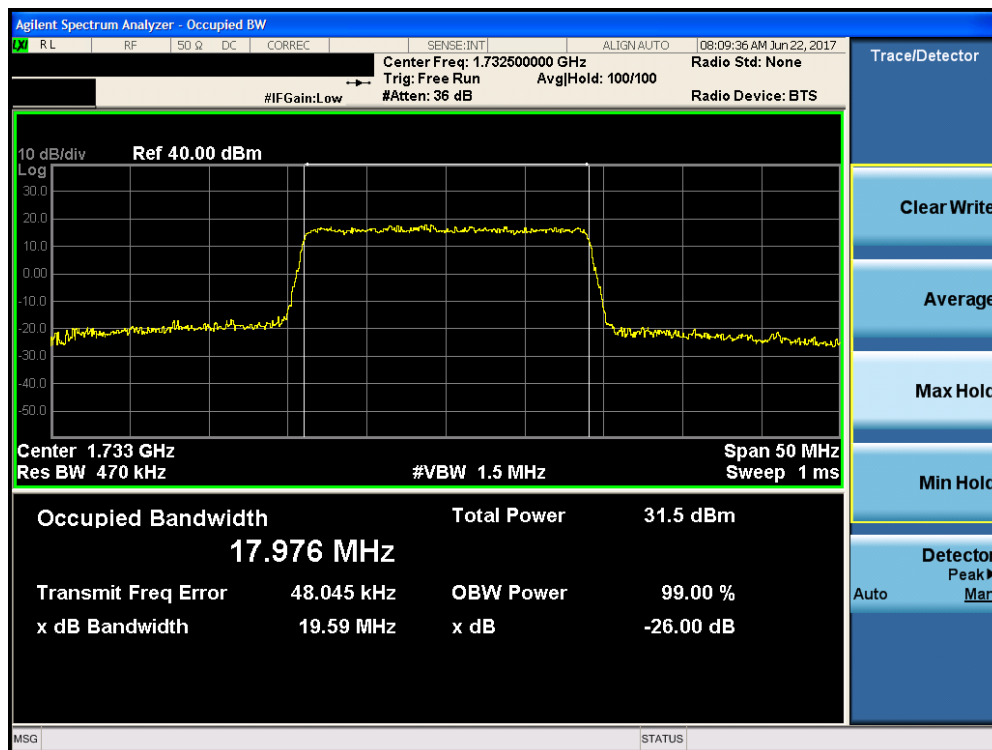


Plot 7-30. Occupied Bandwidth Plot (Band 4 – 15.0MHz 16-QAM – RB Size 75)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 32 of 166                  |

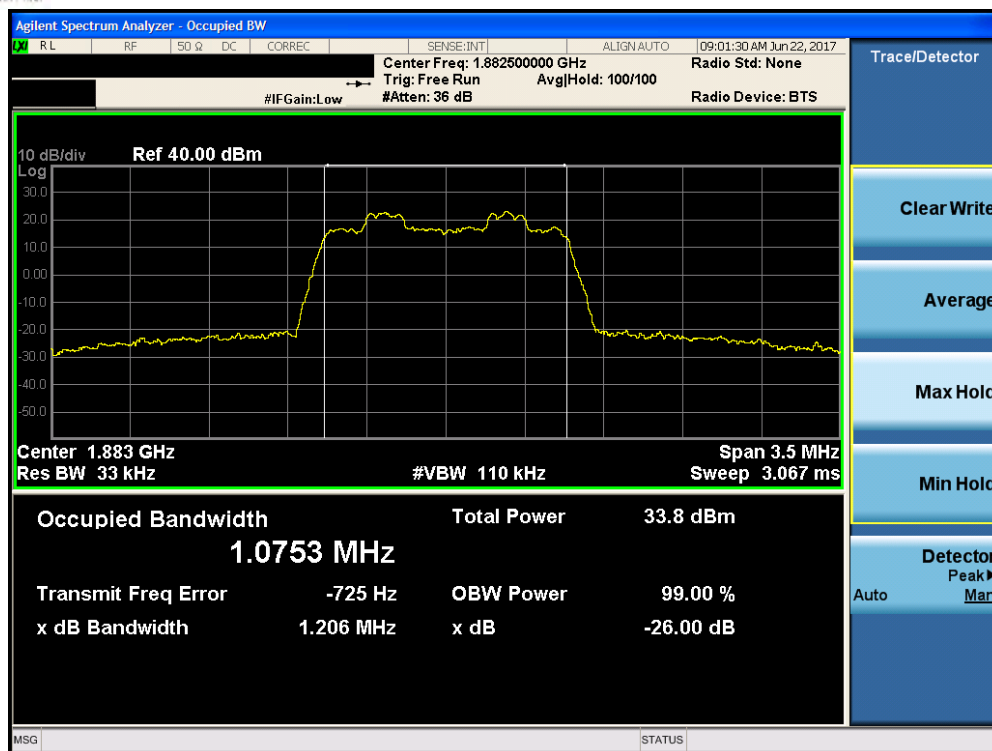


Plot 7-31. Occupied Bandwidth Plot (Band 4 – 20.0MHz QPSK – RB Size 100)

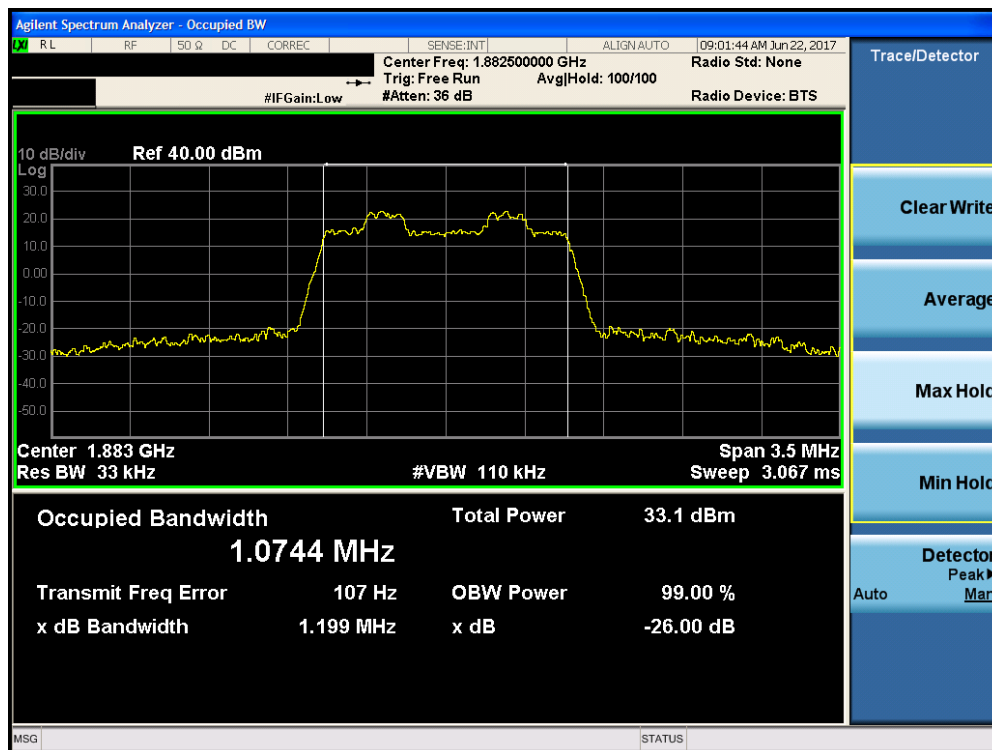


Plot 7-32. Occupied Bandwidth Plot (Band 4 – 20.0MHz 16-QAM – RB Size 100)

|                                               |                                                                                                                                                            |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                               | EUT Type:<br>Watch | Page 33 of 166                  |

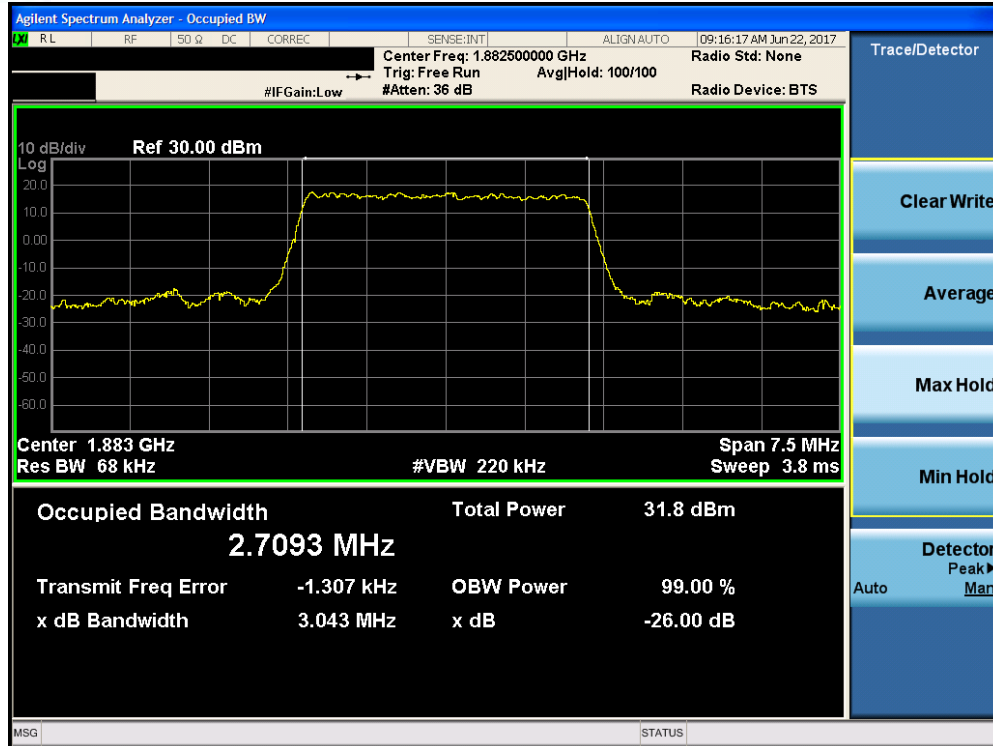


Plot 7-33. Occupied Bandwidth Plot (Band 2/25 – 1.4MHz QPSK – RB Size 6)

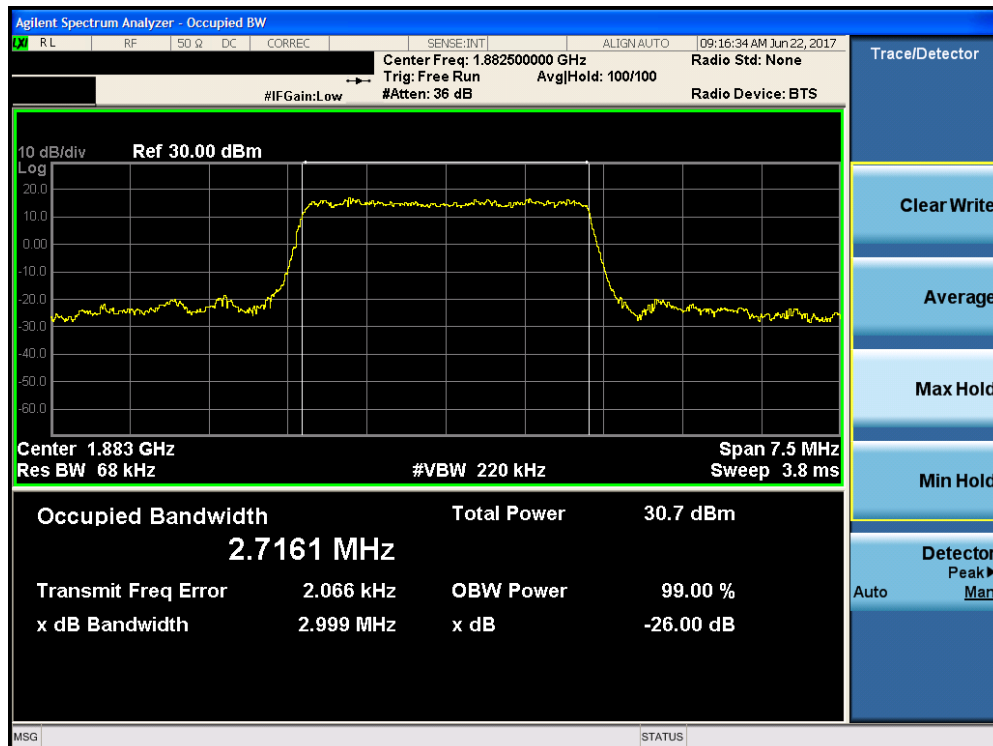


Plot 7-34. Occupied Bandwidth Plot (Band 2/25 – 1.4MHz 16-QAM – RB Size 6)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 34 of 166                  |

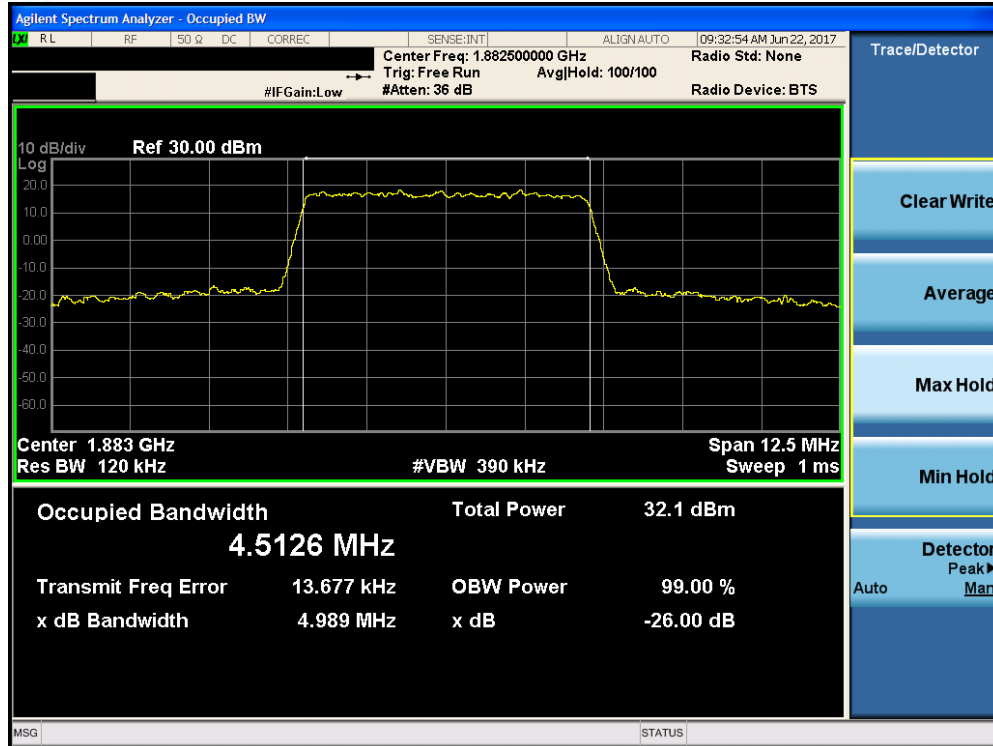


Plot 7-35. Occupied Bandwidth Plot (Band 2/25 – 3.0MHz QPSK – RB Size 15)

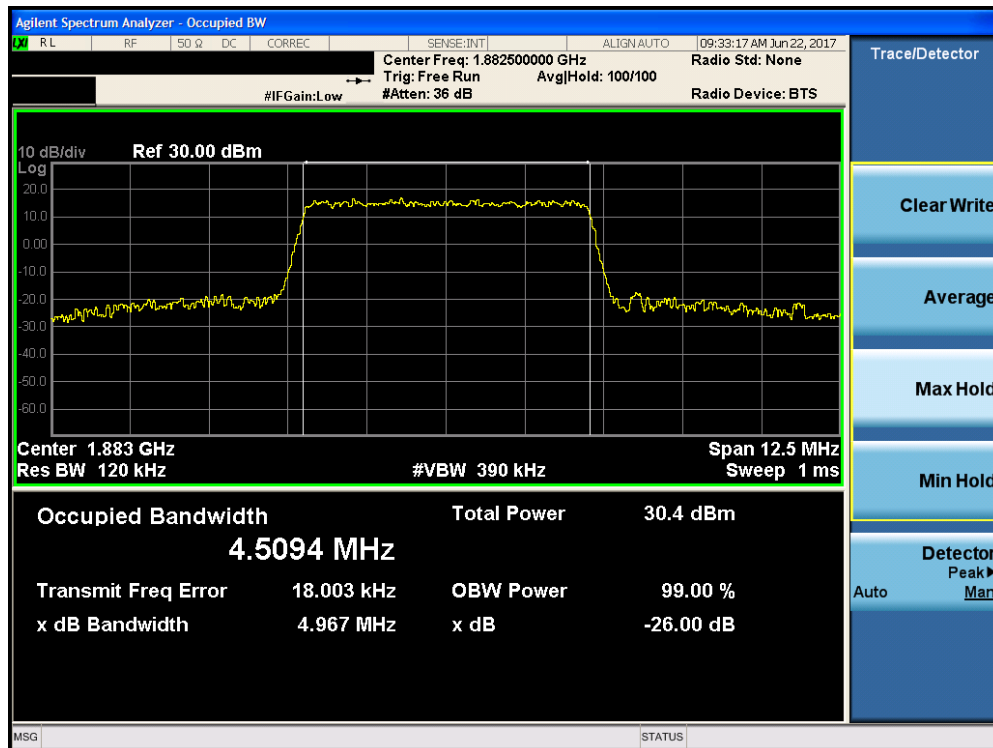


Plot 7-36. Occupied Bandwidth Plot (Band 2/25 – 3.0MHz 16-QAM – RB Size 15)

|                                               |                                                                        |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                           | EUT Type:<br>Watch | Page 35 of 166                  |

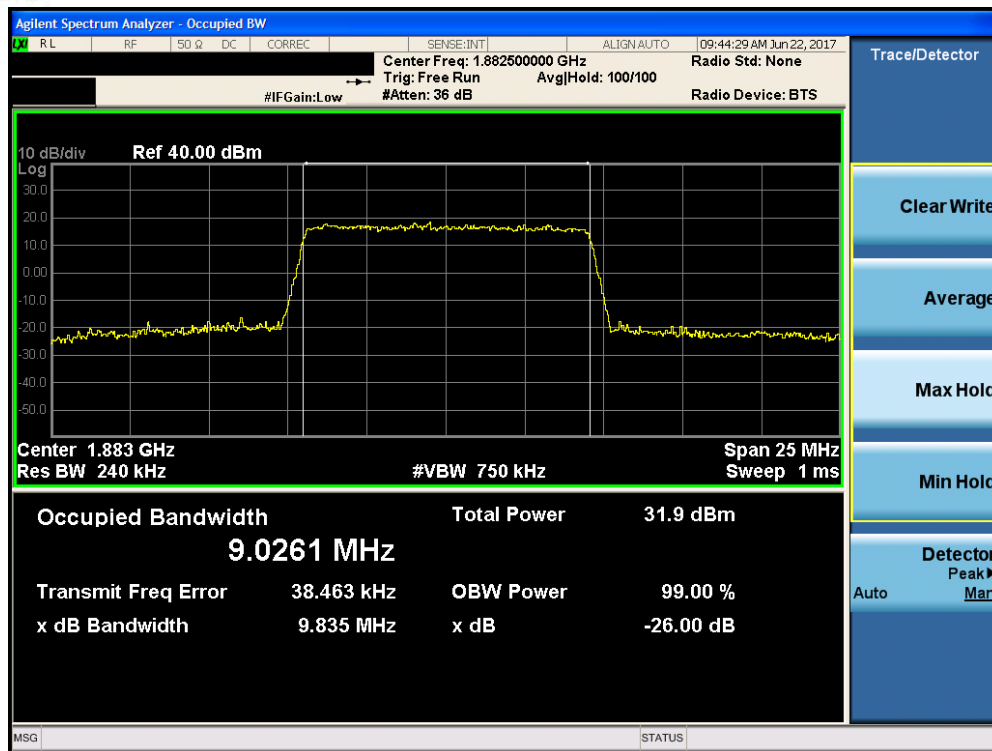


Plot 7-37. Occupied Bandwidth Plot (Band 2/25 – 5.0MHz QPSK – RB Size 25)

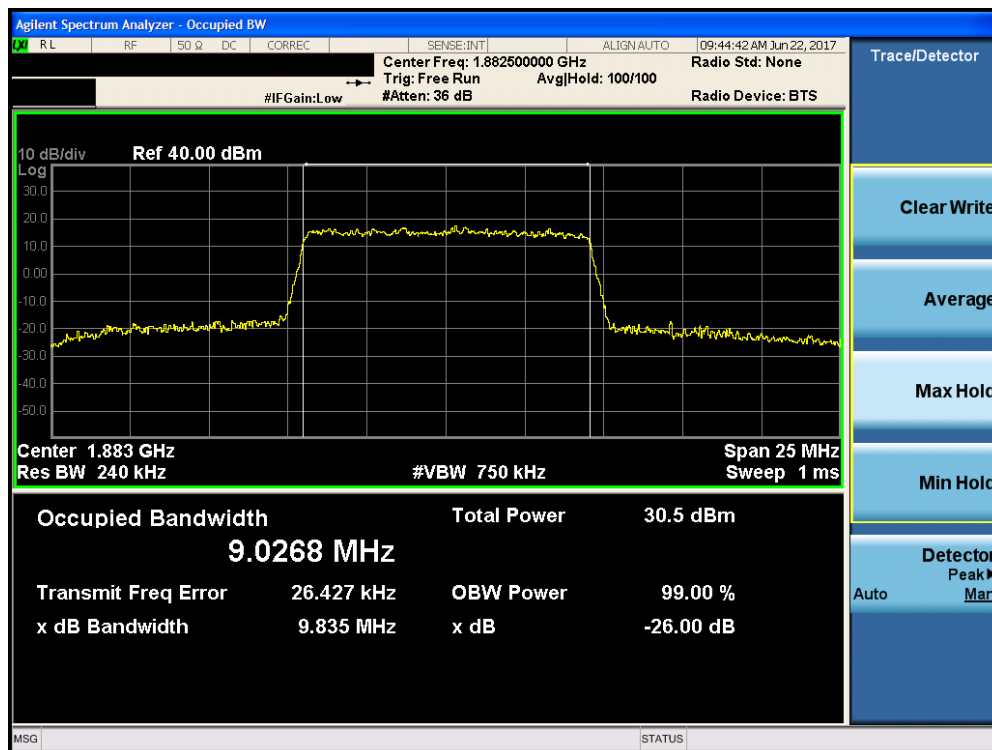


Plot 7-38. Occupied Bandwidth Plot (Band 2/25 – 5.0MHz 16-QAM – RB Size 25)

|                                               |                                                                        |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                           | EUT Type:<br>Watch | Page 36 of 166                  |

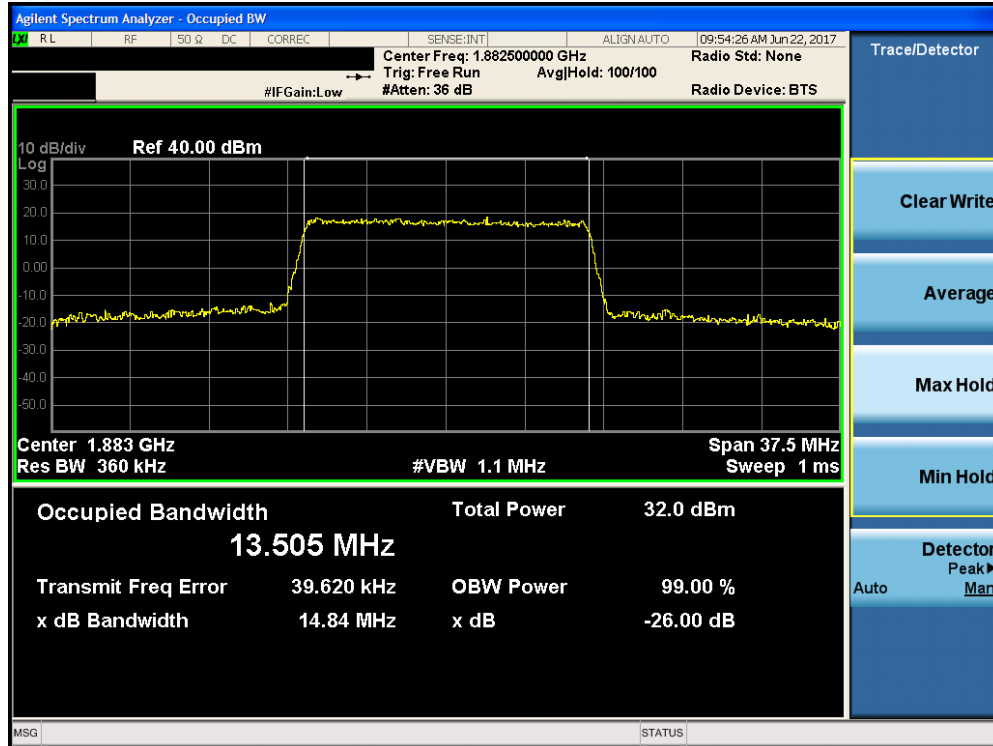


Plot 7-39. Occupied Bandwidth Plot (Band 2/25 – 10.0MHz QPSK – RB Size 50)

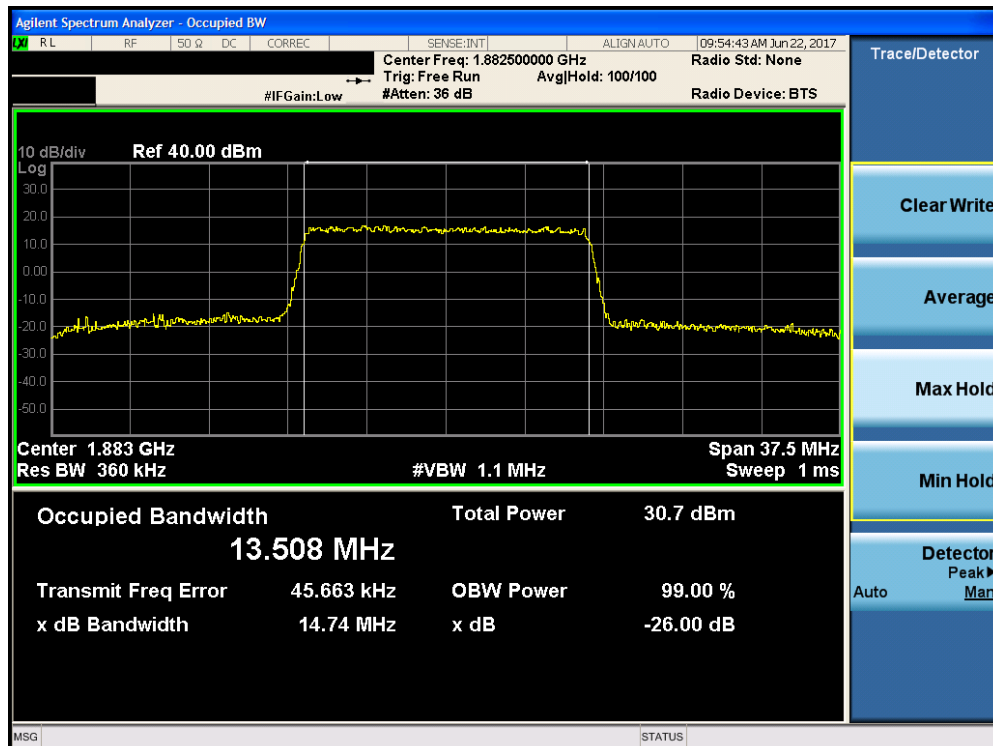


Plot 7-40. Occupied Bandwidth Plot (Band 2/25 – 10.0MHz 16-QAM – RB Size 50)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 37 of 166                  |

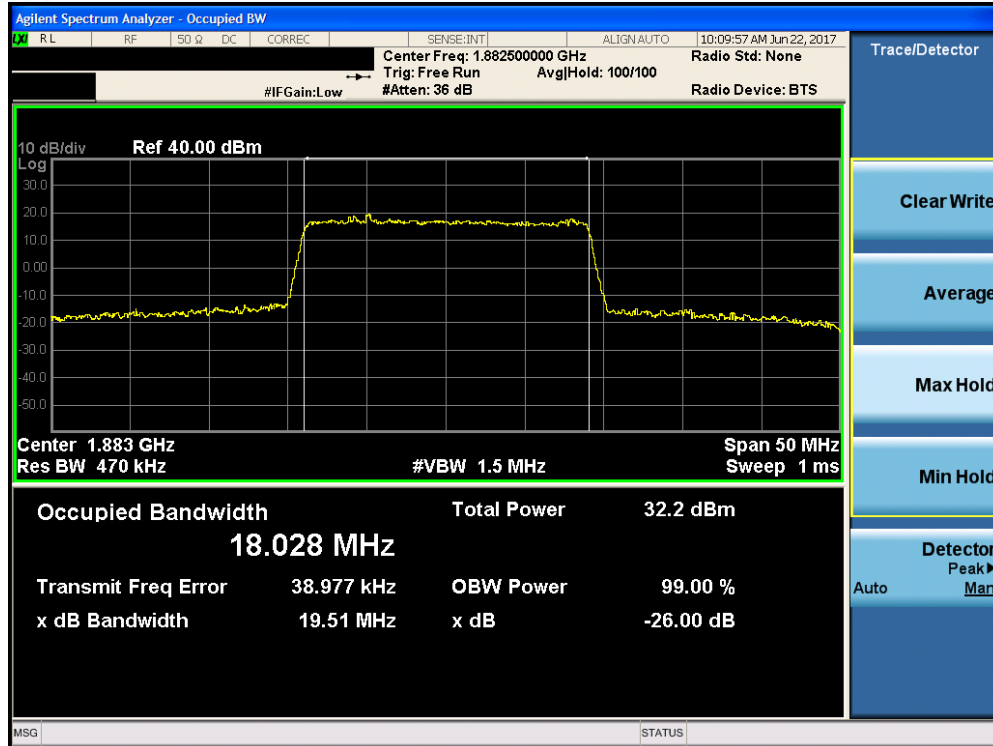


Plot 7-41. Occupied Bandwidth Plot (Band 2/25 – 15.0MHz QPSK – RB Size 75)

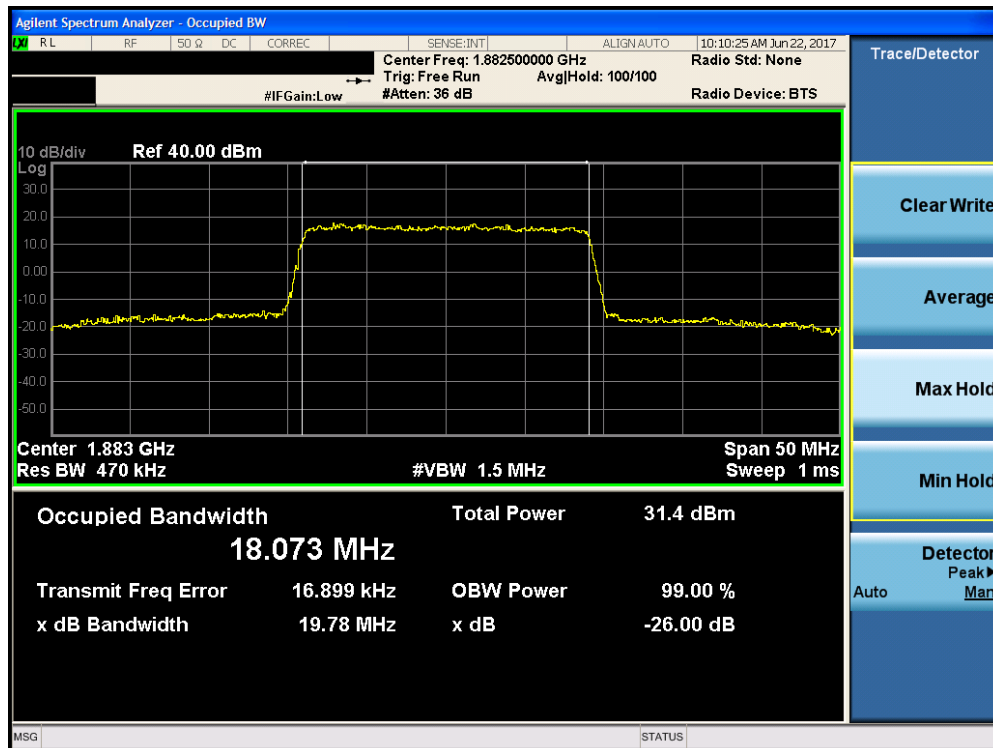


Plot 7-42. Occupied Bandwidth Plot (Band 2/25 – 15.0MHz 16-QAM – RB Size 75)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 38 of 166                  |

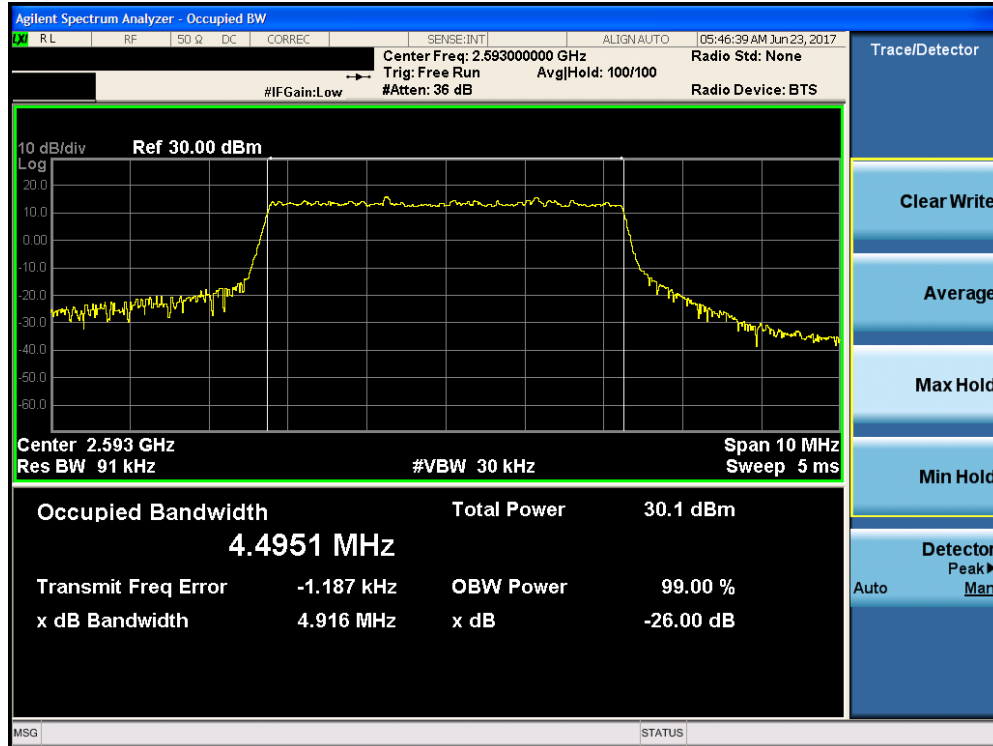


Plot 7-43. Occupied Bandwidth Plot (Band 2/25 – 20.0MHz QPSK – RB Size 100)

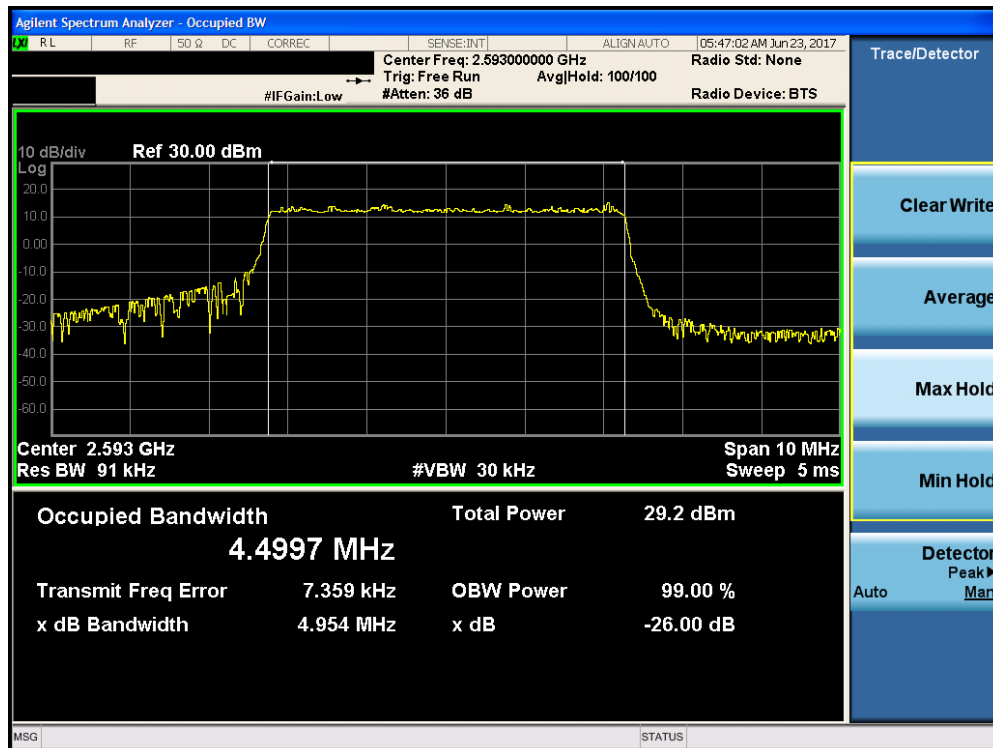


Plot 7-44. Occupied Bandwidth Plot (Band 2/25 – 20.0MHz 16-QAM – RB Size 100)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 39 of 166                  |

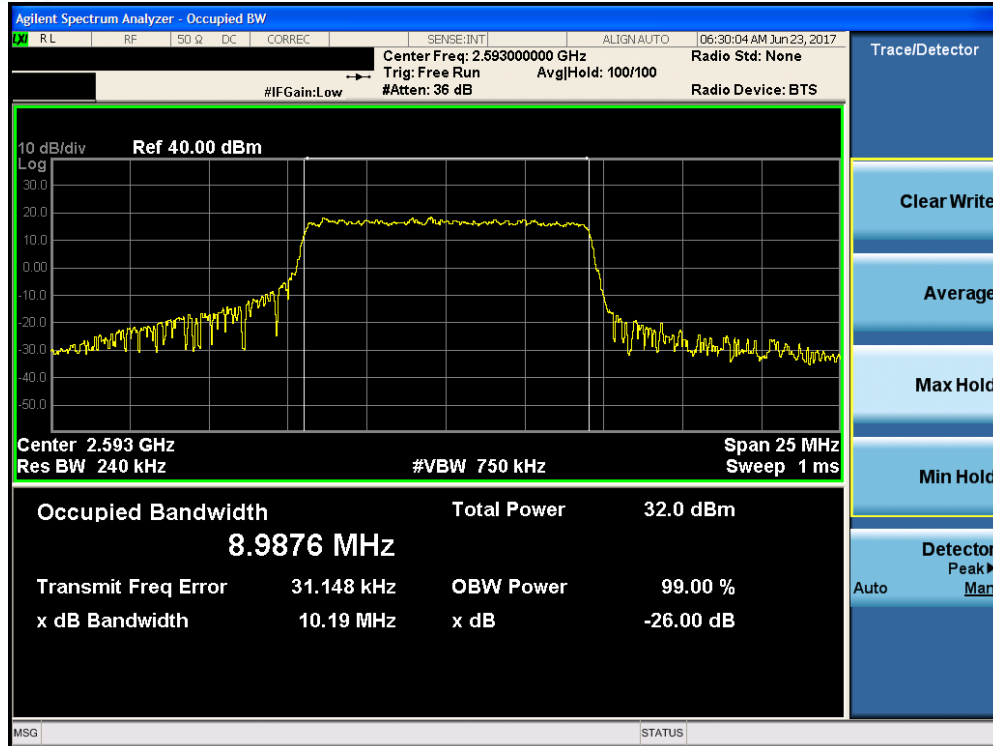


Plot 7-45. Occupied Bandwidth Plot (Band 41 – 5.0MHz QPSK – RB Size 25)

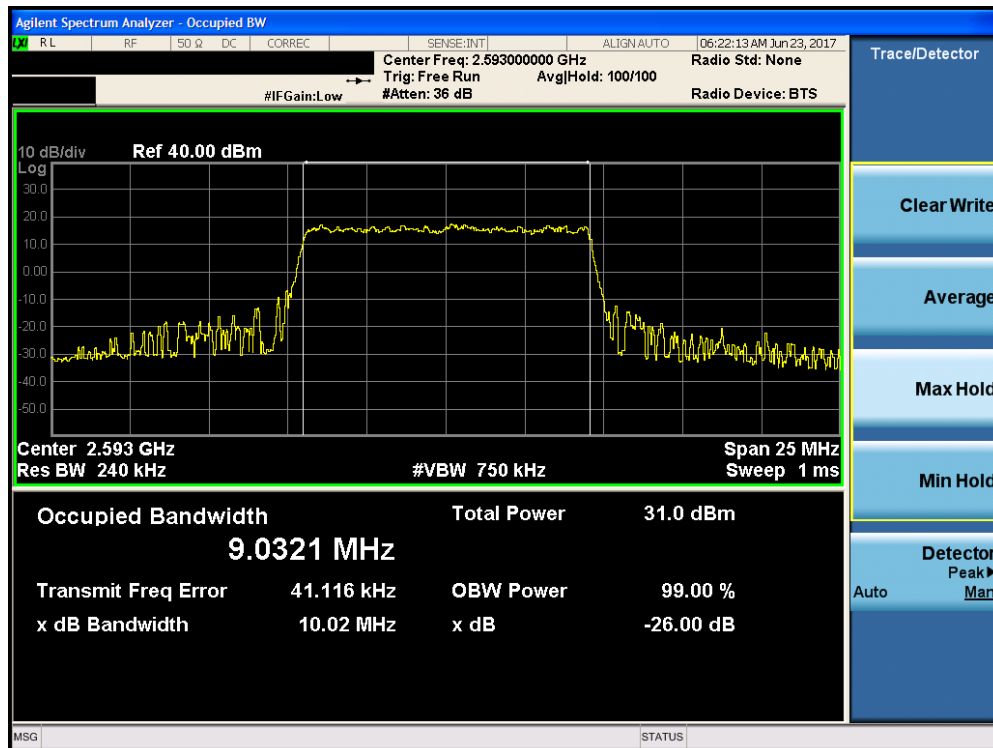


Plot 7-46. Occupied Bandwidth Plot (Band 41 – 5.0MHz 16-QAM – RB Size 25)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 40 of 166                  |

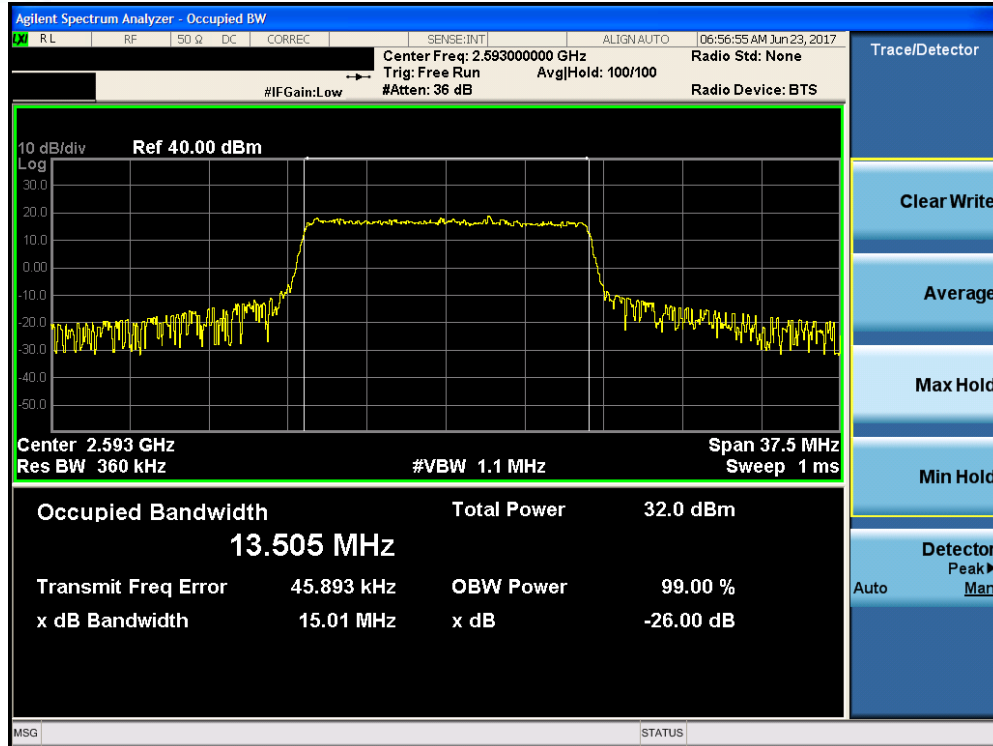


Plot 7-47. Occupied Bandwidth Plot (Band 41 – 10.0MHz QPSK – RB Size 50)

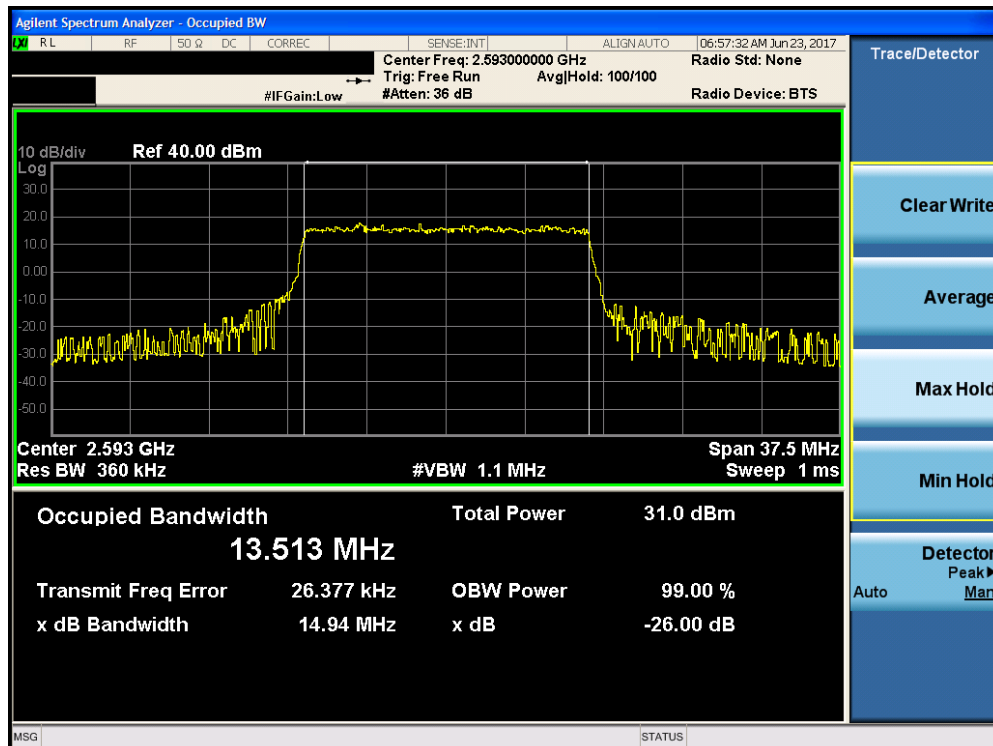


Plot 7-48. Occupied Bandwidth Plot (Band 41 – 10.0MHz 16-QAM – RB Size 50)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 41 of 166                  |

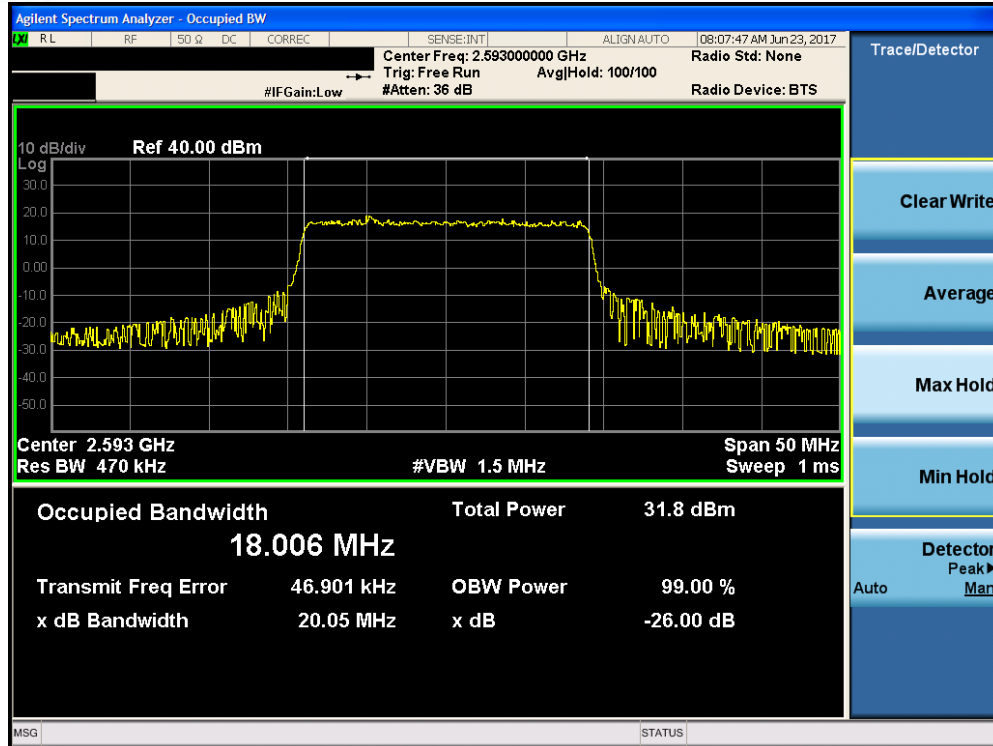


Plot 7-49. Occupied Bandwidth Plot (Band 41 – 15.0MHz QPSK – RB Size 75)

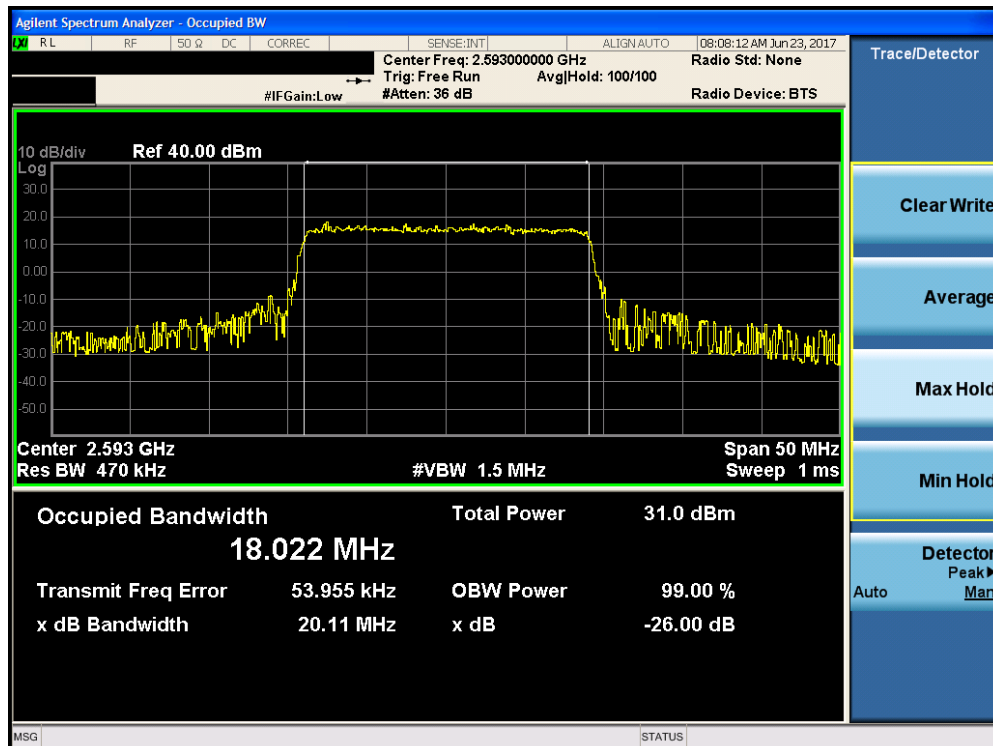


Plot 7-50. Occupied Bandwidth Plot (Band 41 – 15.0MHz 16-QAM – RB Size 75)

|                                               |                                                                        |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                           | EUT Type:<br>Watch | Page 42 of 166                  |



Plot 7-51. Occupied Bandwidth Plot (Band 41 – 20.0MHz QPSK – RB Size 100)



Plot 7-52. Occupied Bandwidth Plot (Band 41 – 20.0MHz 16-QAM – RB Size 100)

|                                               |                                               |                                                                |                                 |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|---------------------------------|
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| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                  | EUT Type:<br>Watch                                             | Page 43 of 166                  |

### 7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051 §22.917(a) §24.238(a) §27.53(c.2) §27.53(g) §27.53(h) §27.53(m)

#### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

***For Band 41, the minimum permissible attenuation level of any spurious emission is  $55 + \log_{10}(P_{\text{Watts}})$ .***

***The minimum permissible attenuation level of any spurious emission is  $43 + \log_{10}(P_{\text{Watts}})$ , where  $P$  is the transmitter power in Watts.***

#### Test Procedure Used

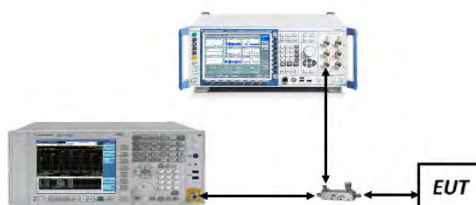
KDB 971168 D01 v02r02 – Section 6.0

#### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 \* the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

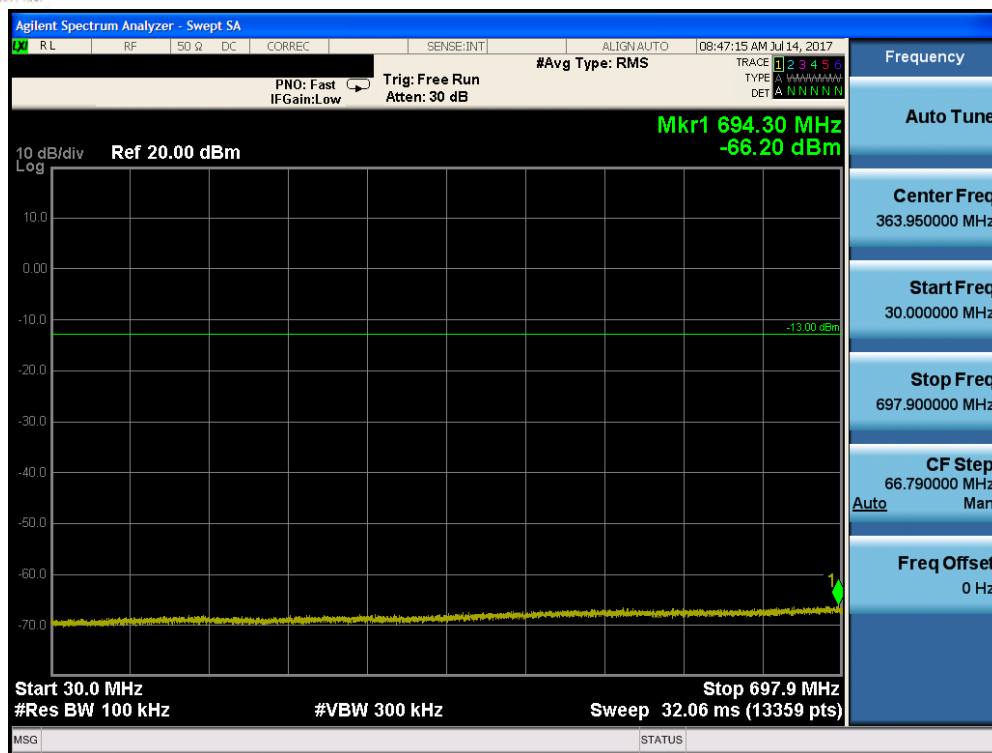


**Figure 7-2. Test Instrument & Measurement Setup**

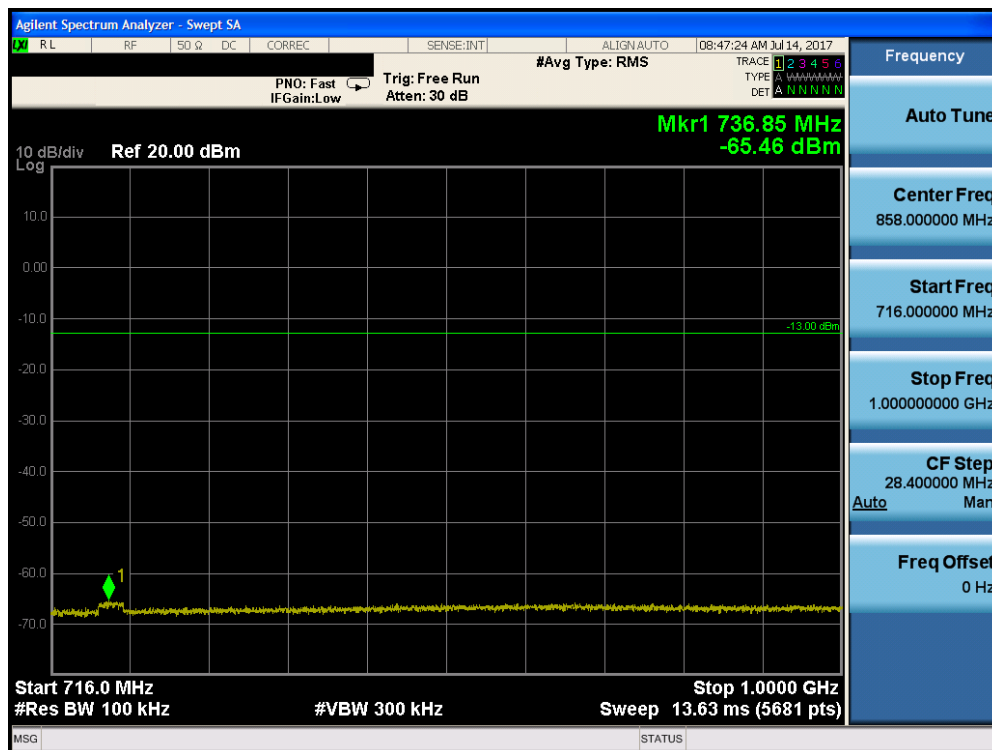
#### Test Notes

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

|                                               |                                                                                                                                                                |                    |                                 |
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| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 44 of 166                  |

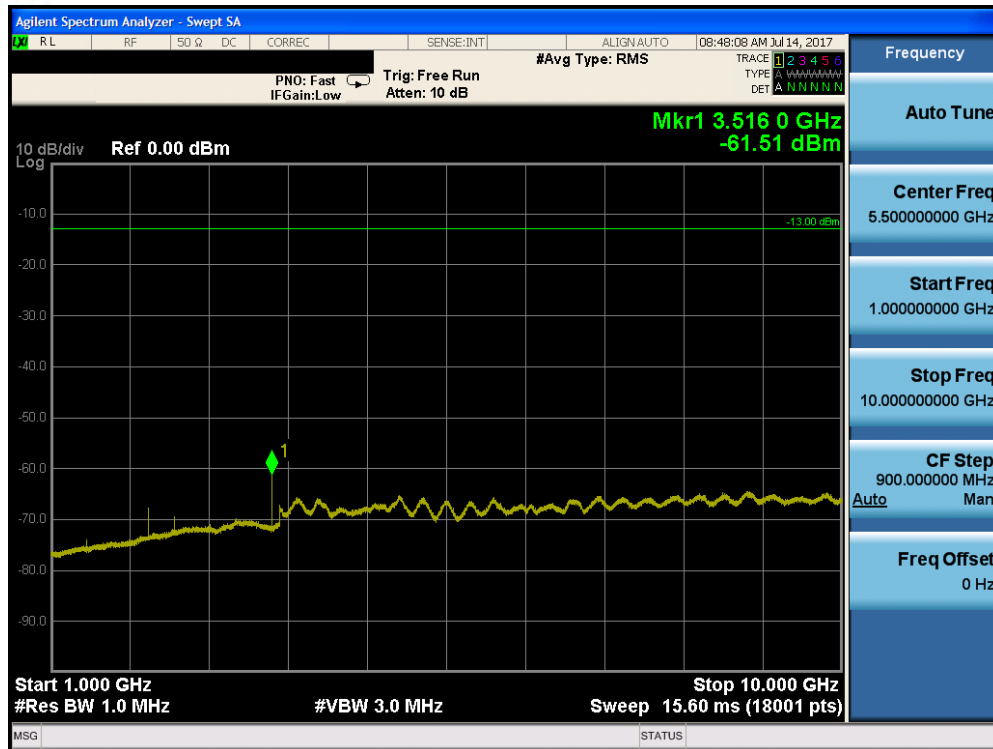


Plot 7-53. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

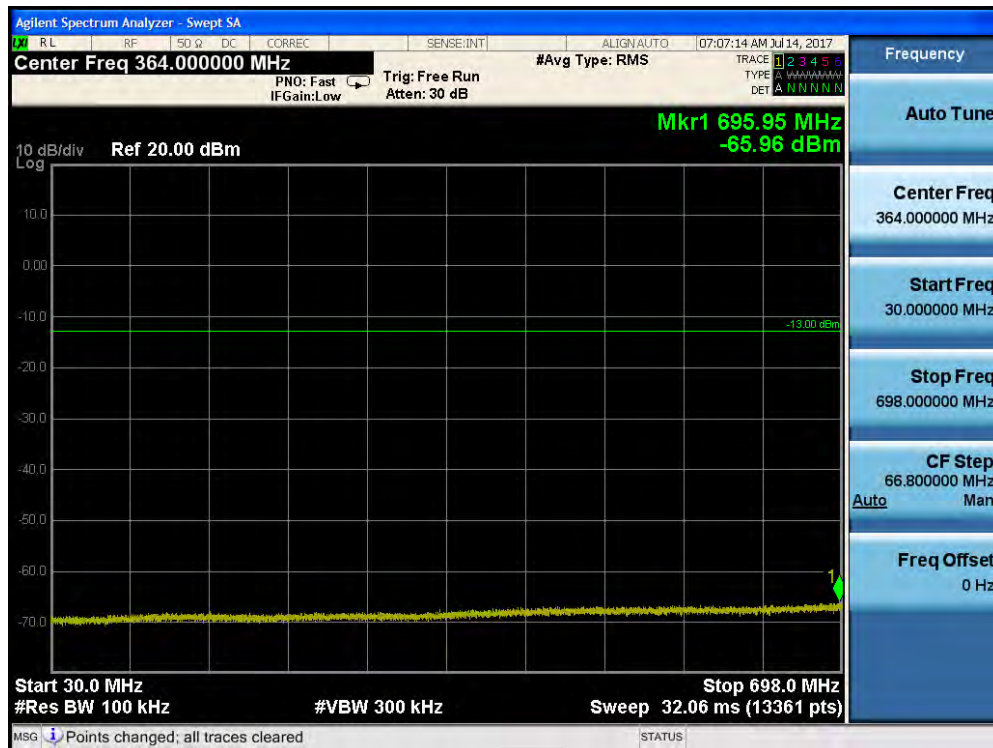


Plot 7-54. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                        |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                           | EUT Type:<br>Watch | Page 45 of 166                  |

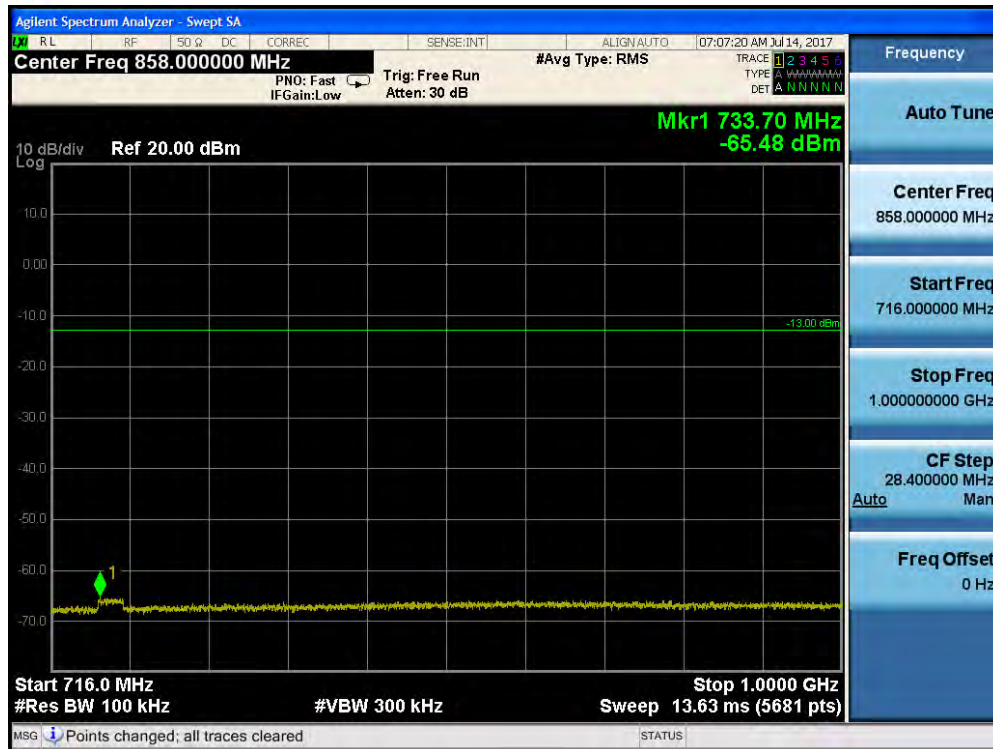


Plot 7-55. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

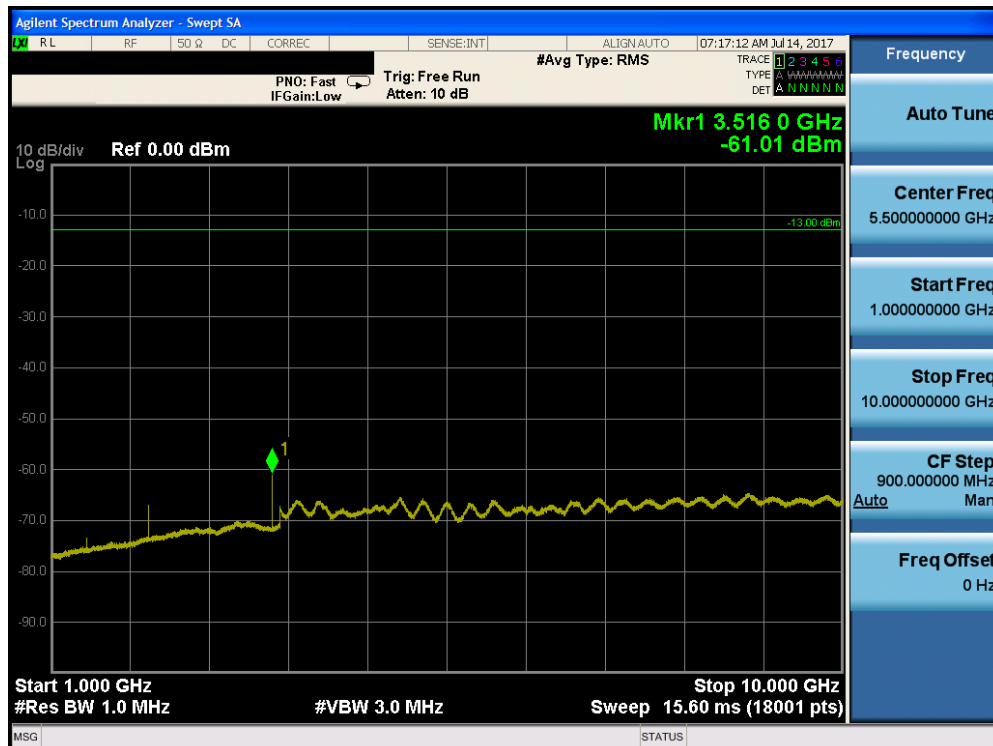


Plot 7-56. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 46 of 166                  |



Plot 7-57. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

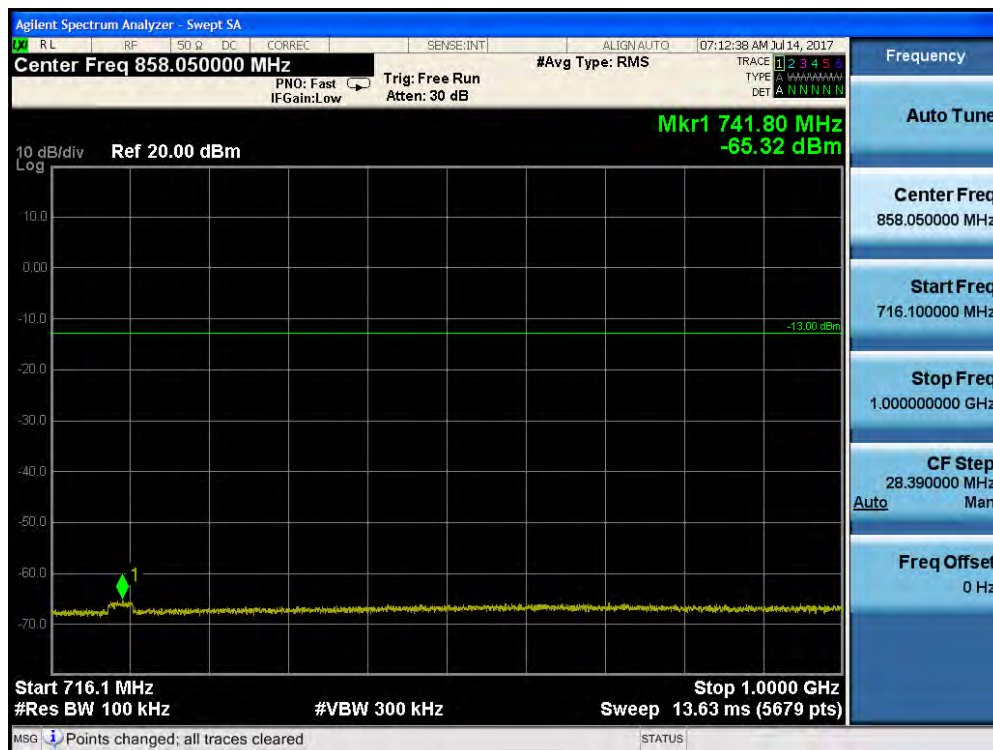


Plot 7-58. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 47 of 166                  |

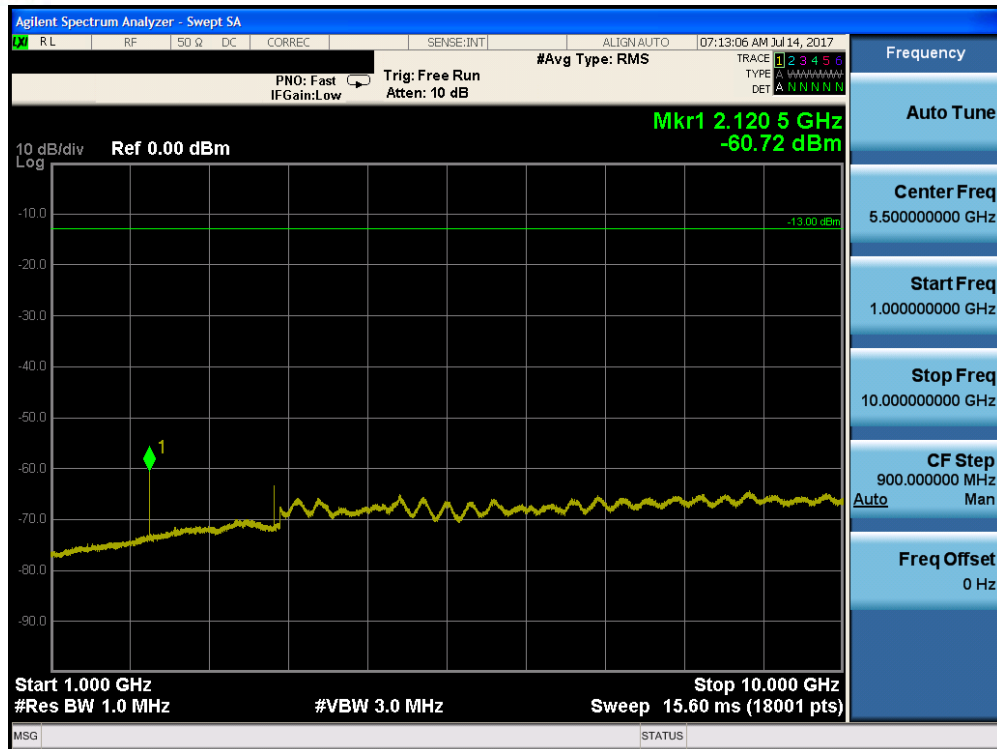


Plot 7-59. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-60. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 48 of 166                  |

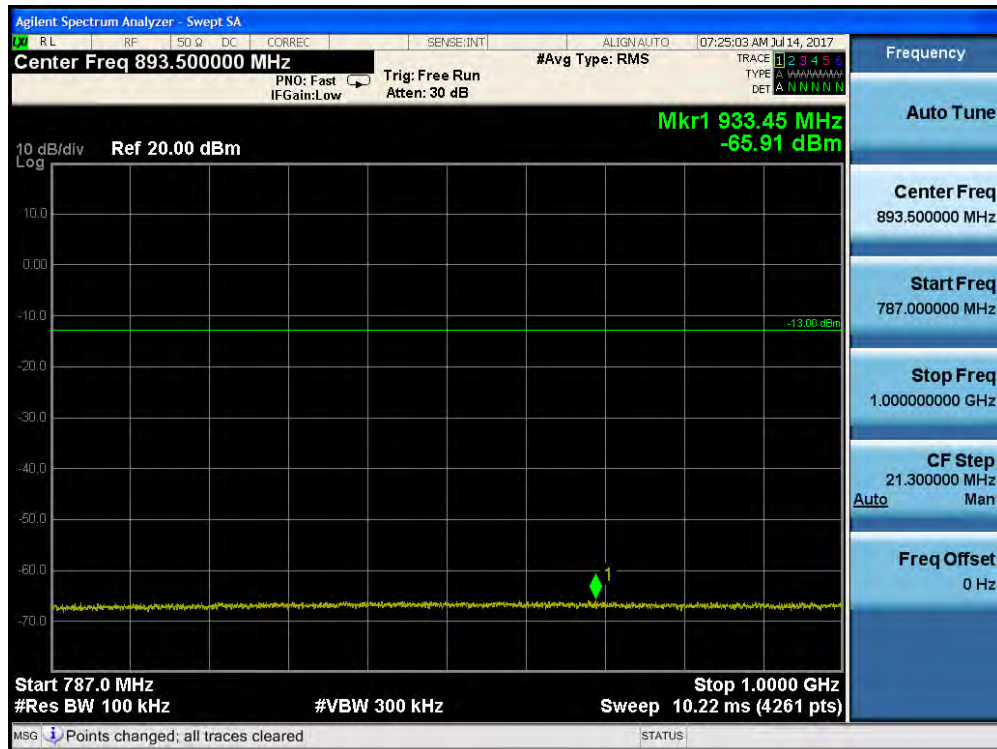


Plot 7-61. Conducted Spurious Plot (Band 12/17 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

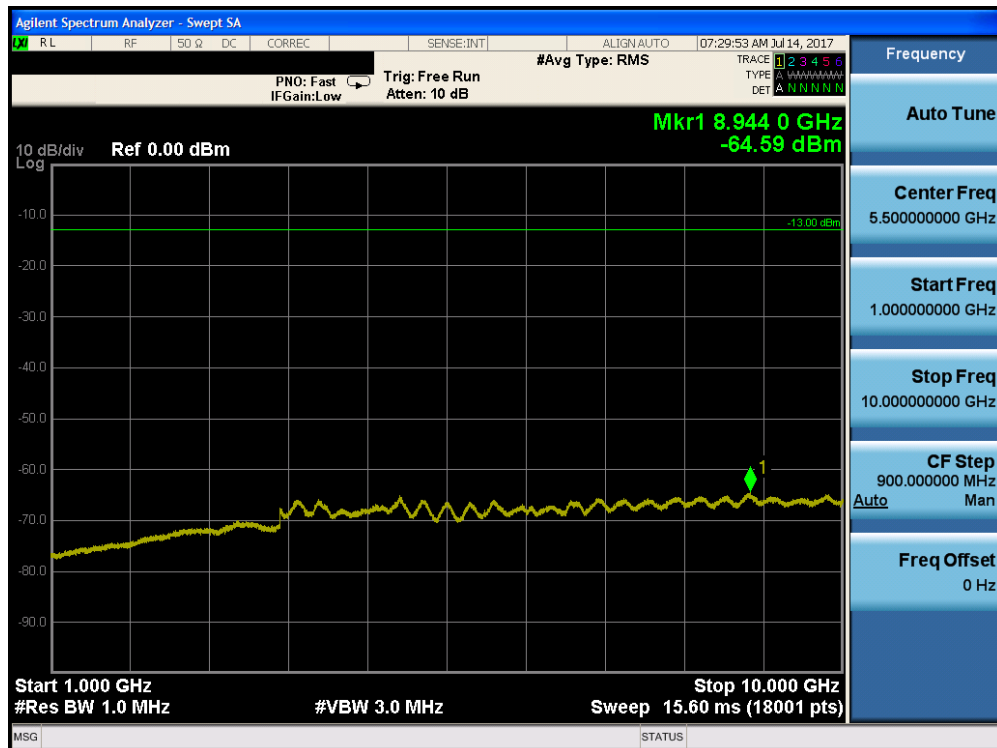


Plot 7-62. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 49 of 166                  |

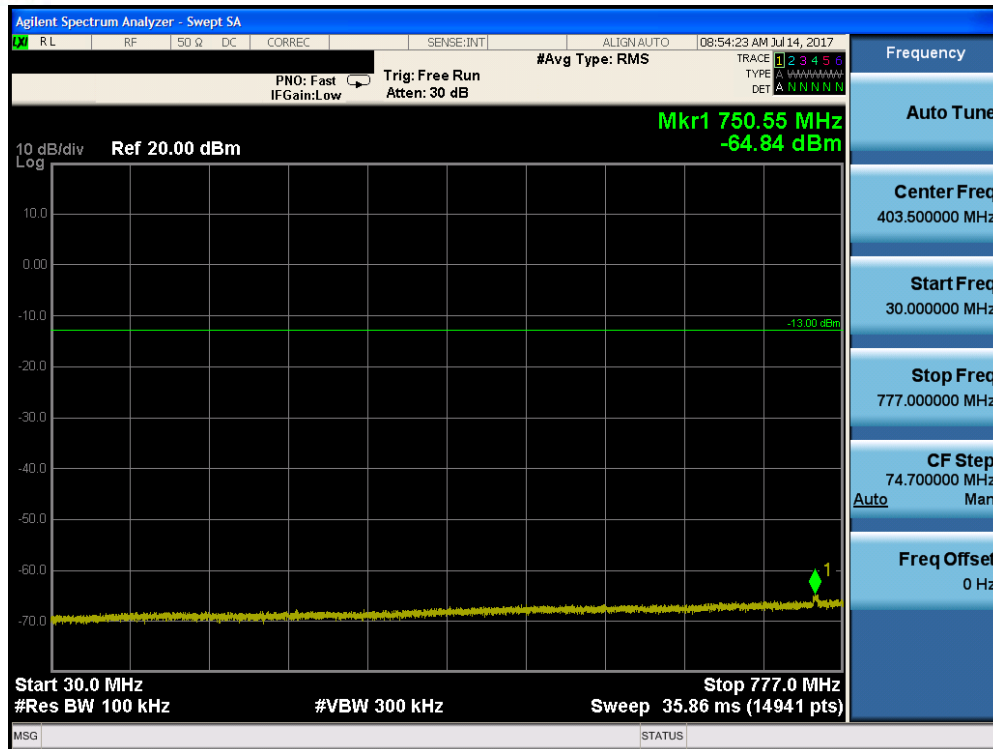


Plot 7-63. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

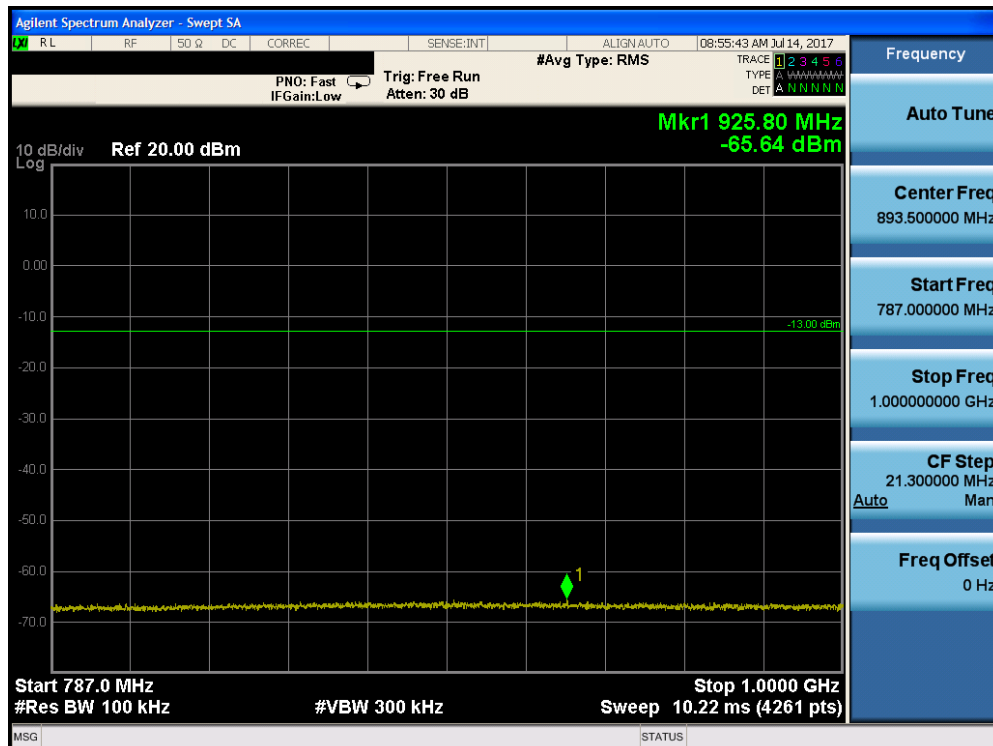


Plot 7-64. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                                                                                                            |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                               | EUT Type:<br>Watch | Page 50 of 166                  |

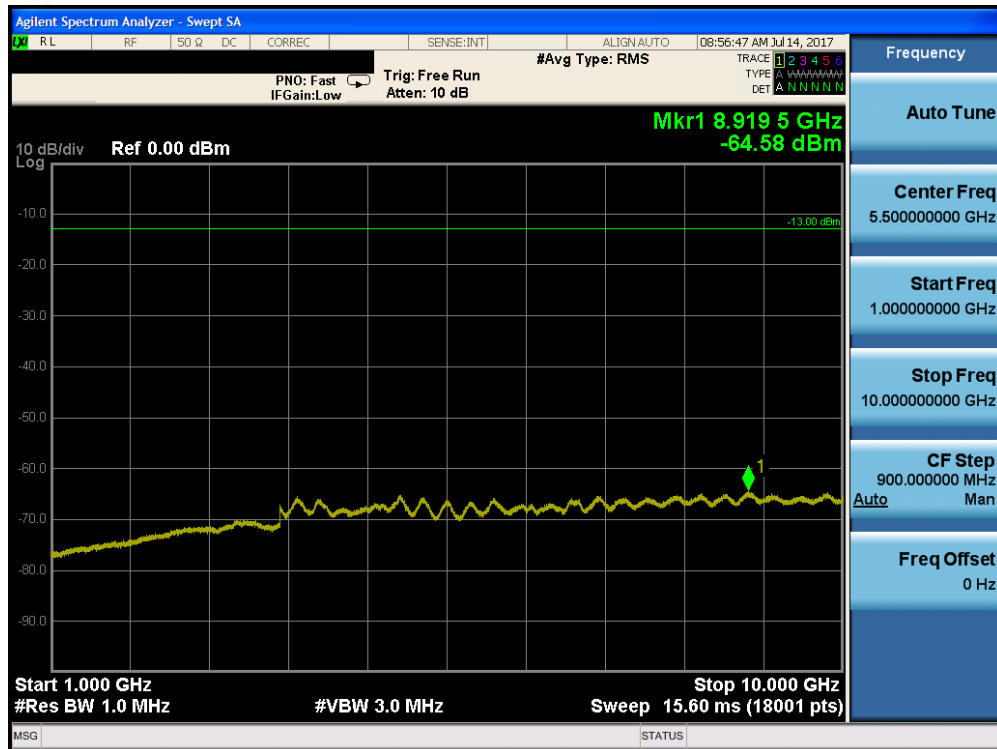


Plot 7-65. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

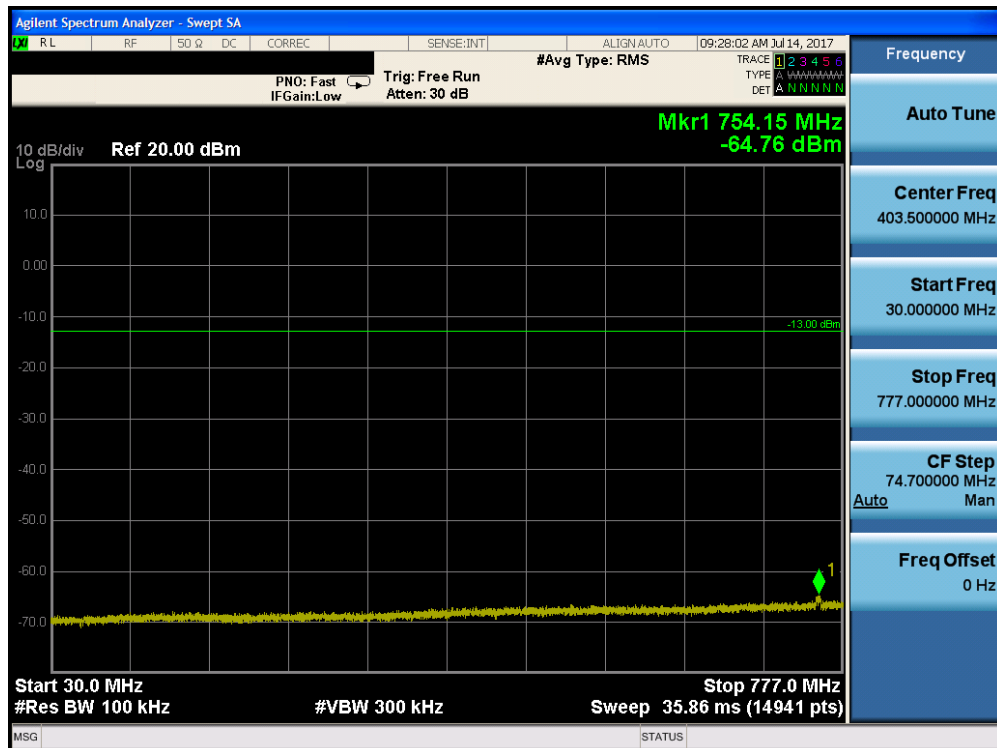


Plot 7-66. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                        |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                           | EUT Type:<br>Watch | Page 51 of 166                  |

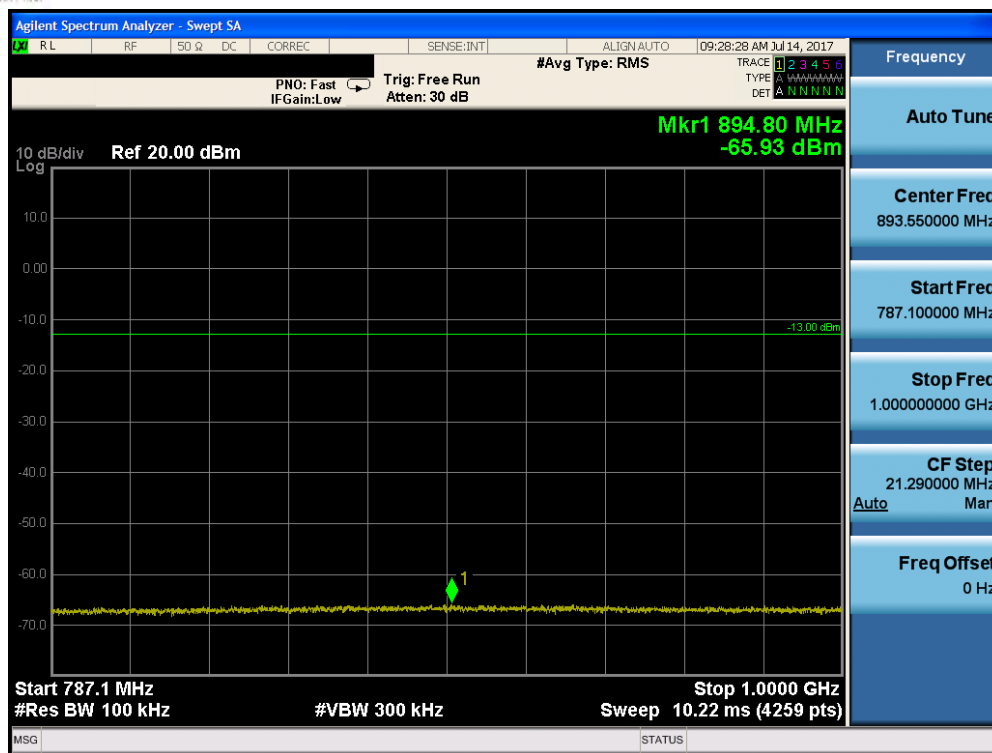


Plot 7-67. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

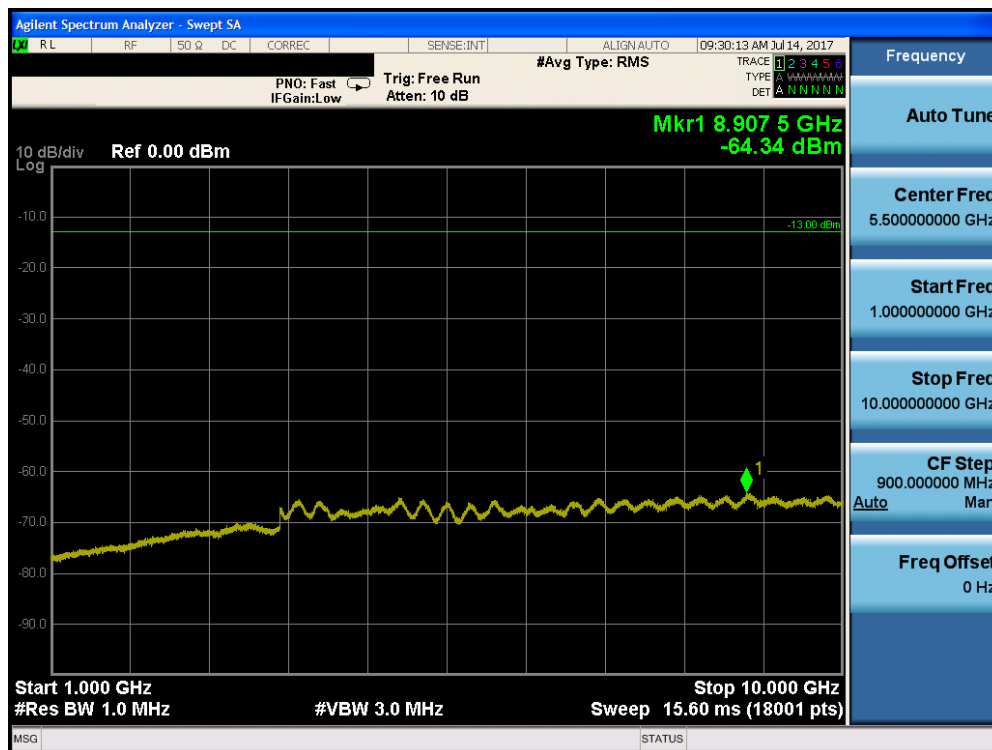


Plot 7-68. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                                                                                                            |                    |                                 |
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| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                               | EUT Type:<br>Watch | Page 52 of 166                  |

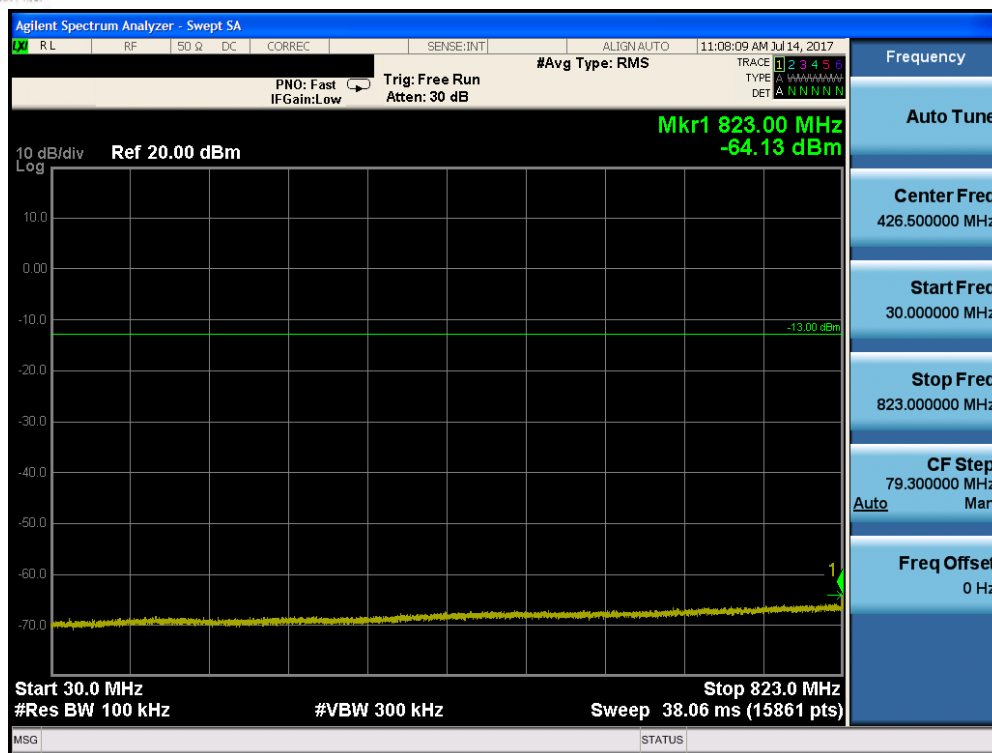


Plot 7-69. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

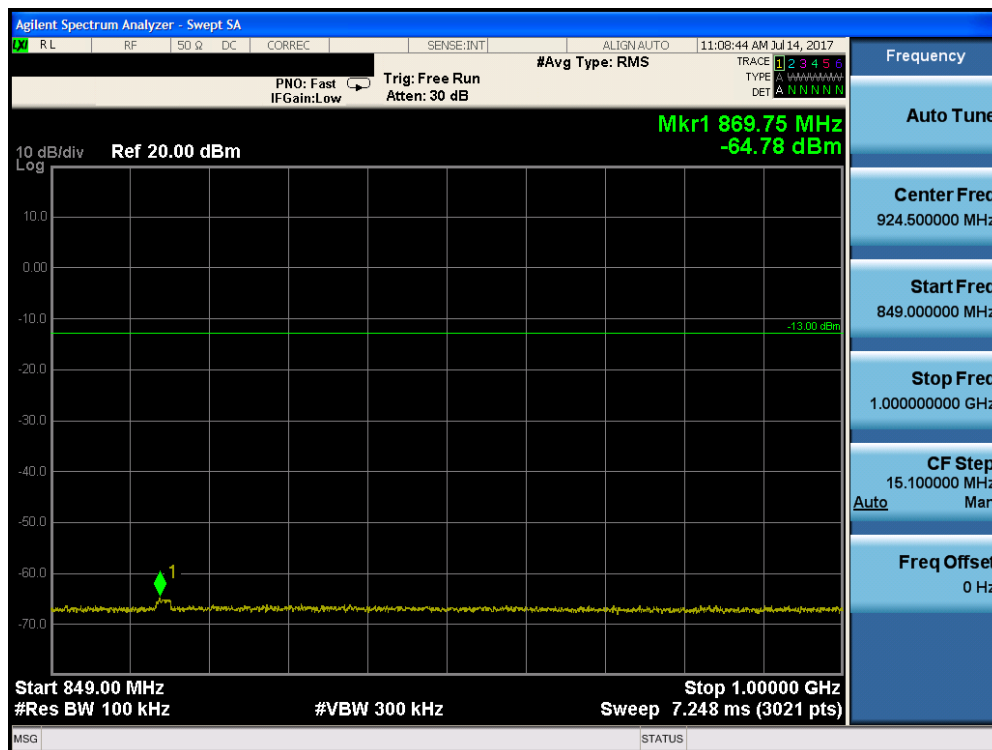


Plot 7-70. Conducted Spurious Plot (Band 13 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 53 of 166                  |

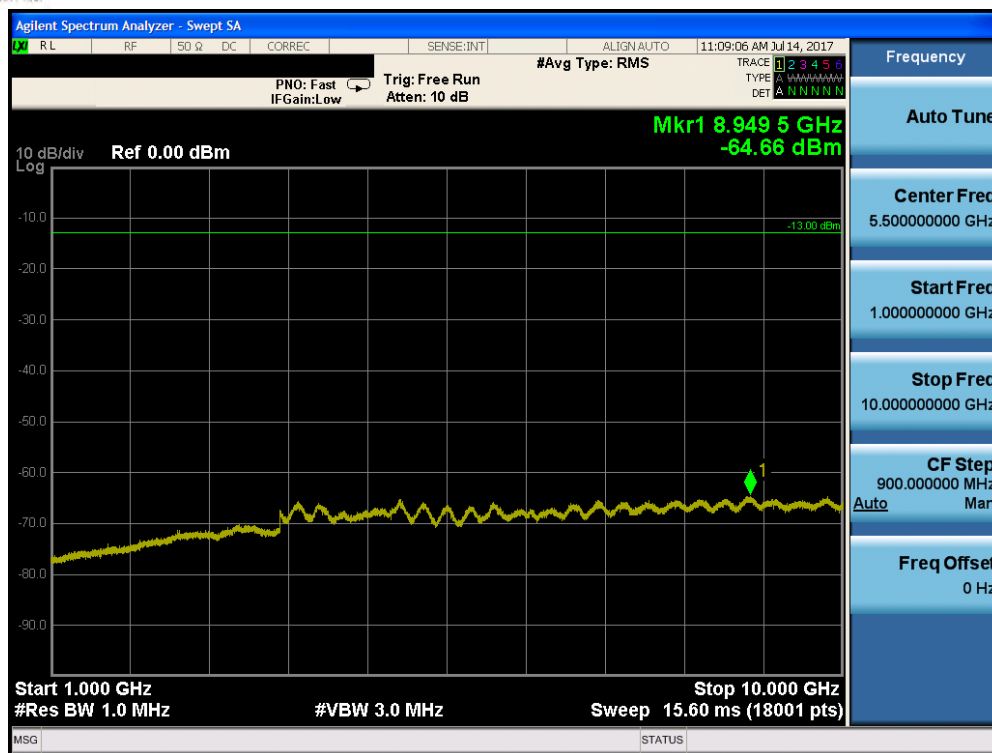


Plot 7-71. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

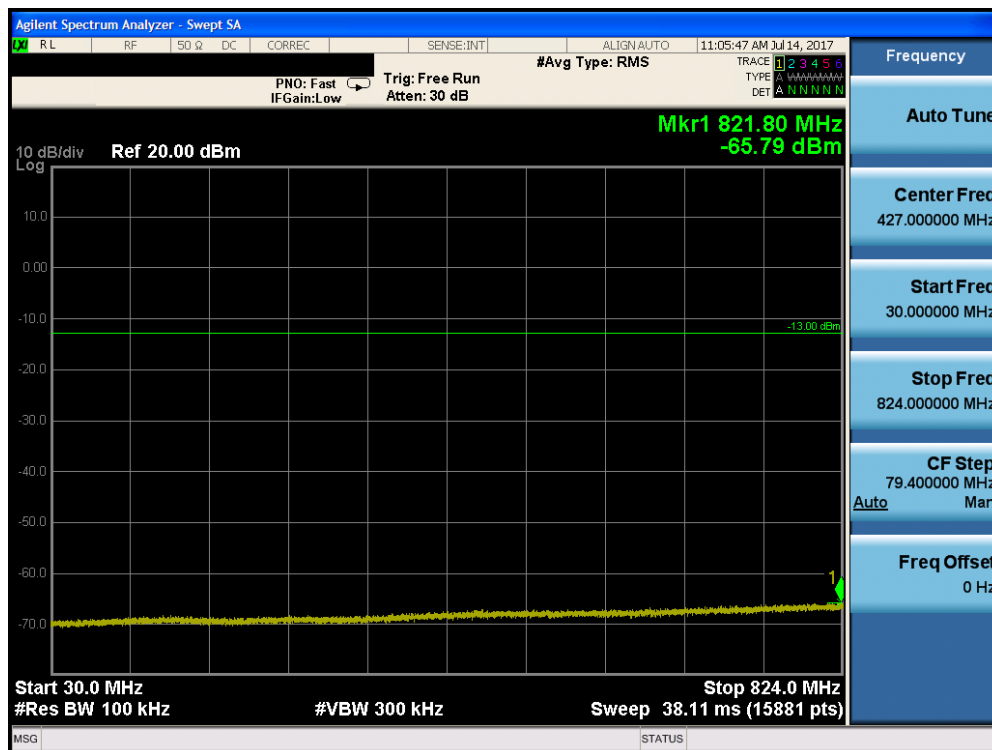


Plot 7-72. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                                                                                                                |                    |                                 |
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| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 54 of 166                  |

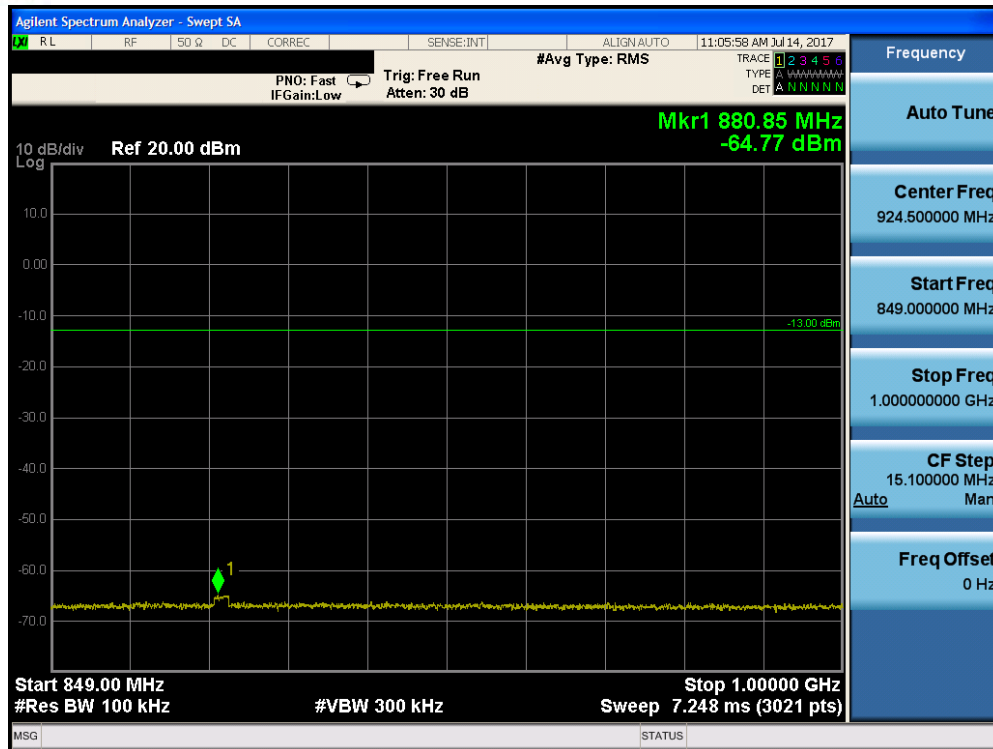


Plot 7-73. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

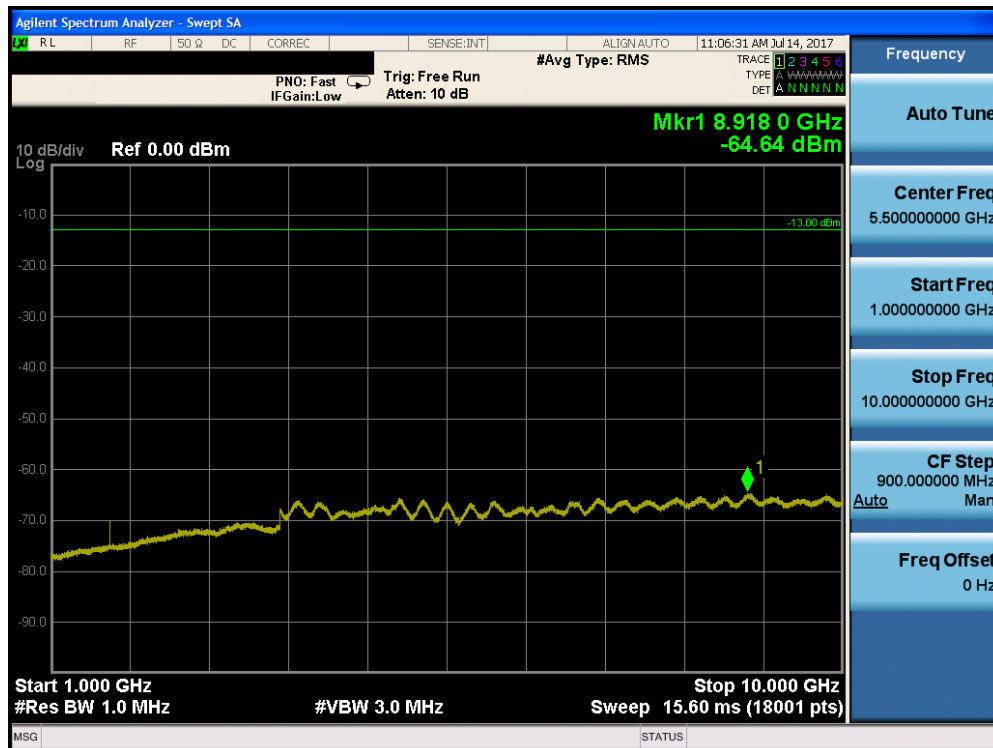


Plot 7-74. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 55 of 166                  |

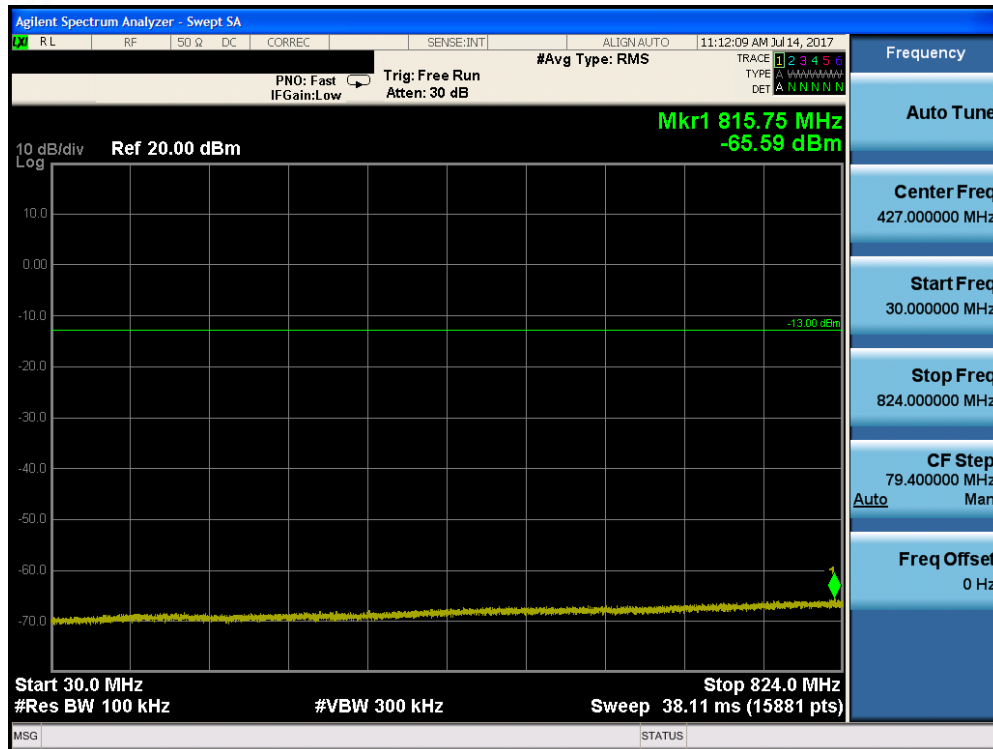


Plot 7-75. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

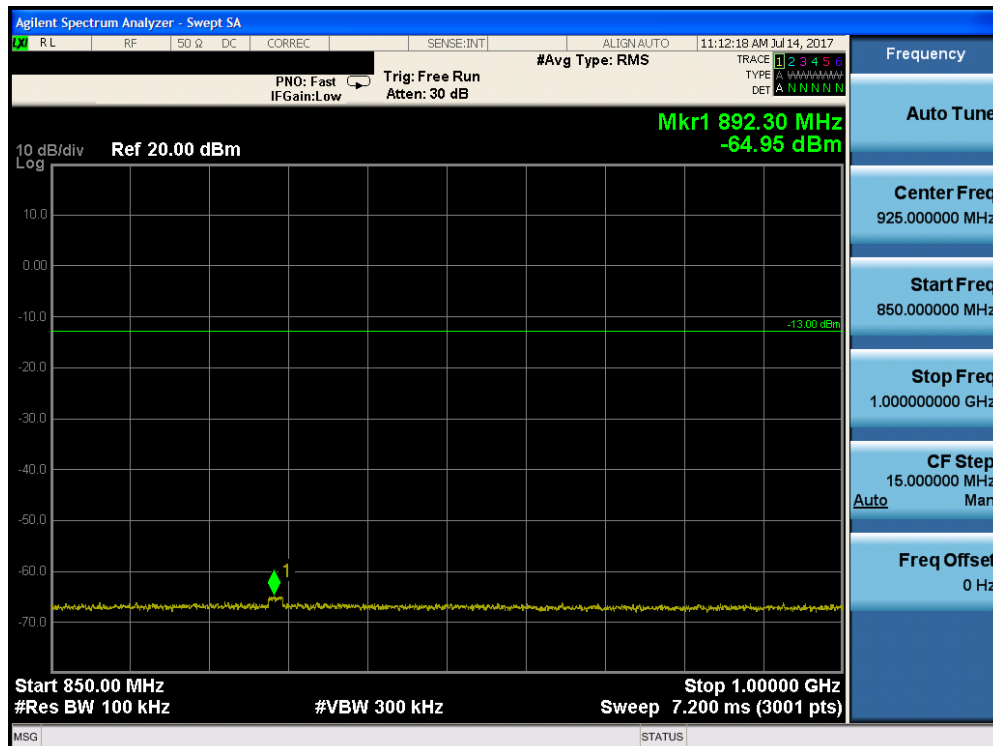


Plot 7-76. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                            |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                               | EUT Type:<br>Watch | Page 56 of 166                  |

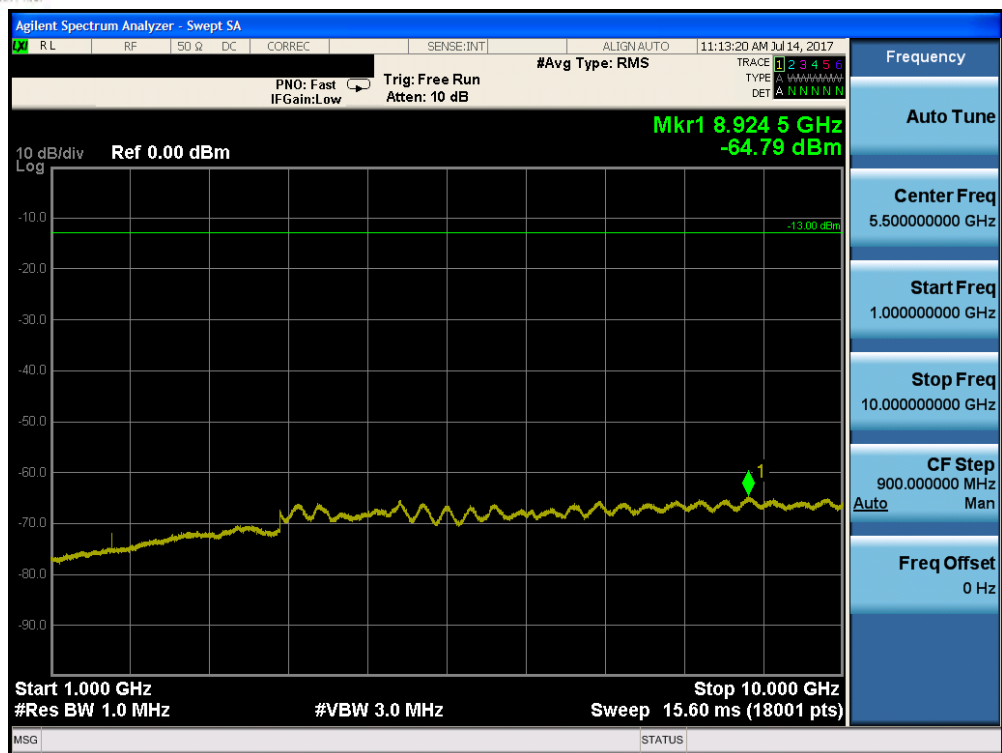


Plot 7-77. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

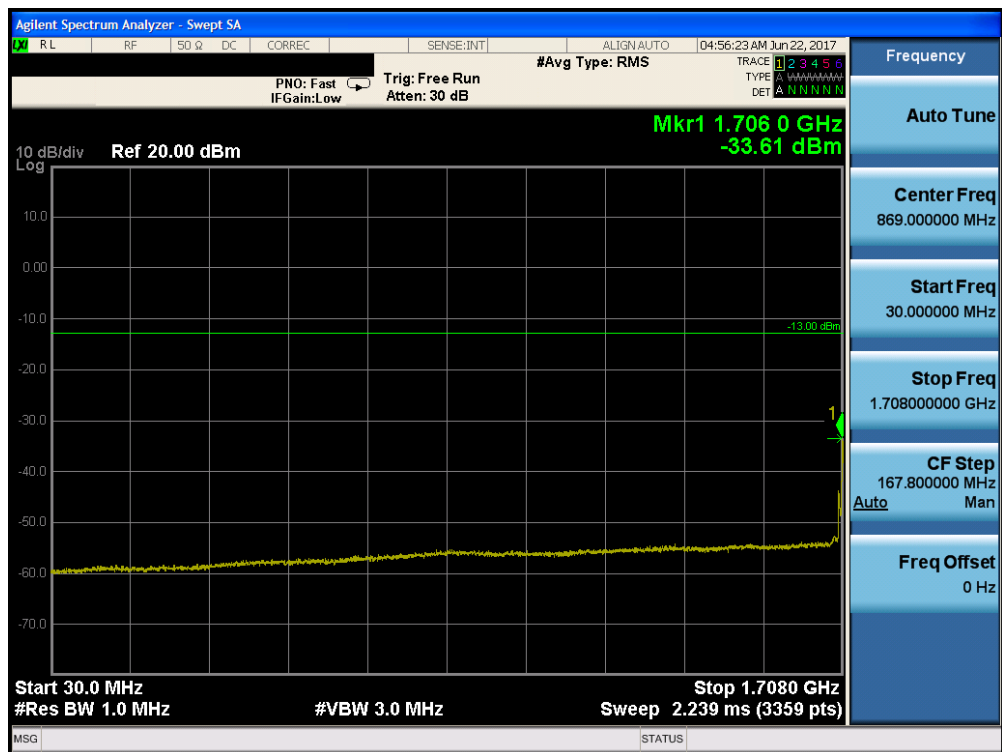


Plot 7-78. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 57 of 166                  |

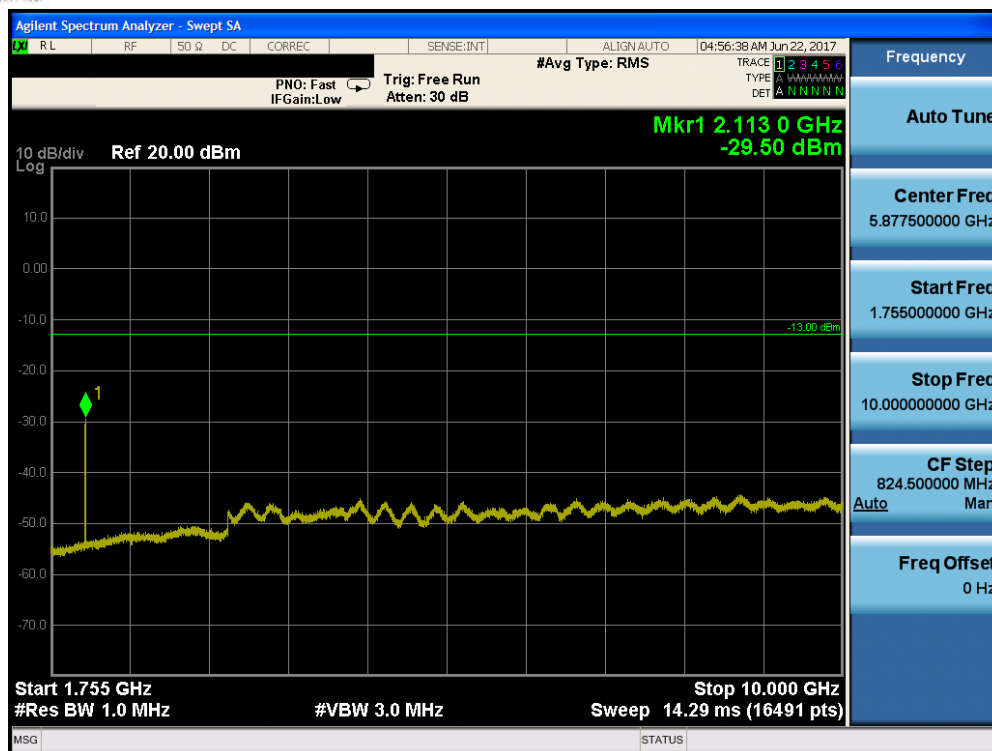


Plot 7-79. Conducted Spurious Plot (Band 5/26 – 3.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

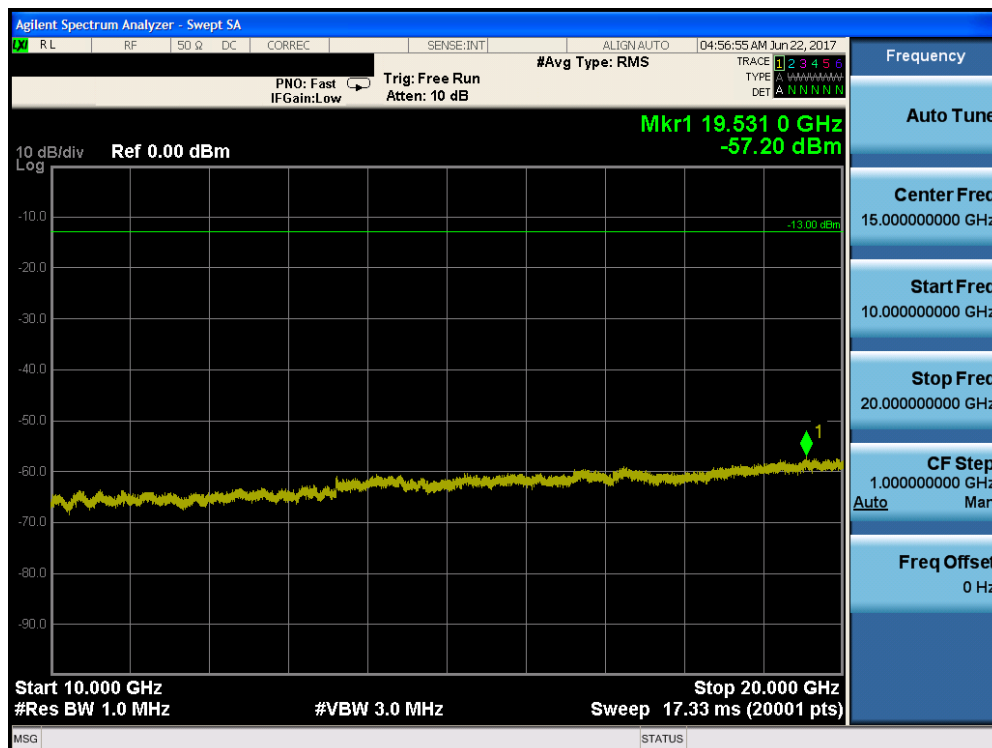


Plot 7-80. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 58 of 166                  |

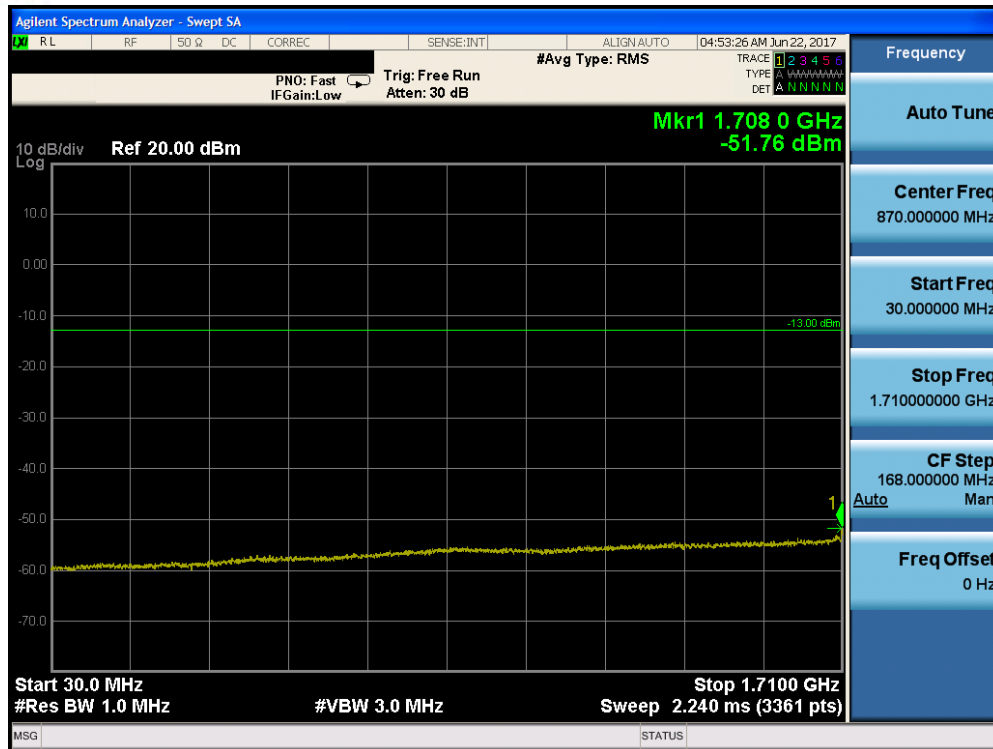


Plot 7-81. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

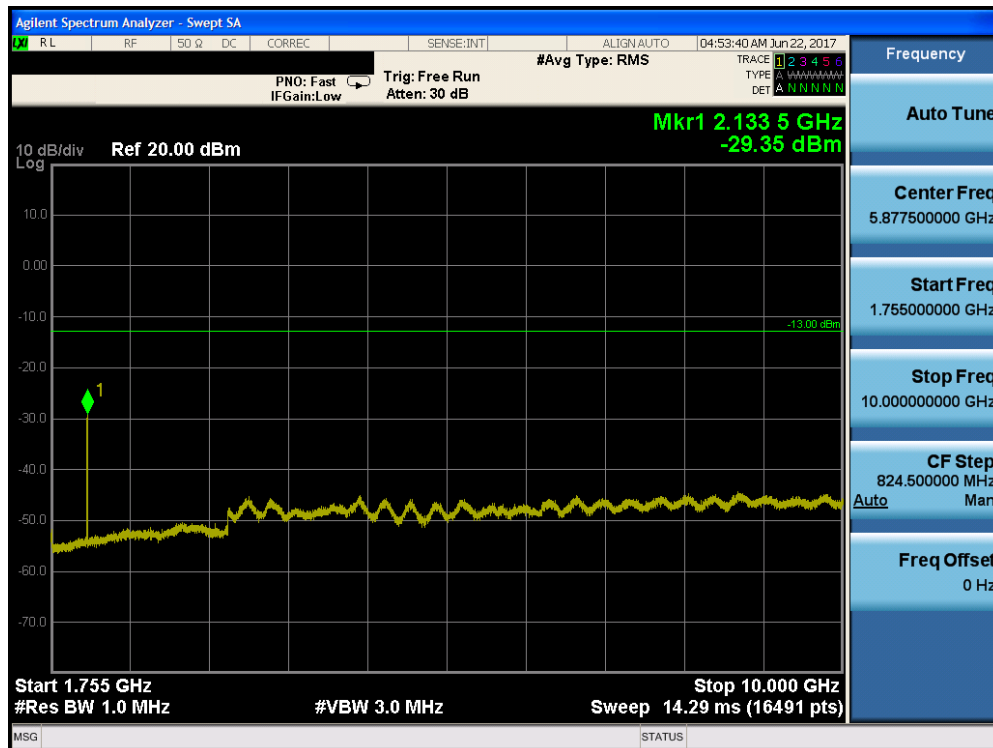


Plot 7-82. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 59 of 166                  |

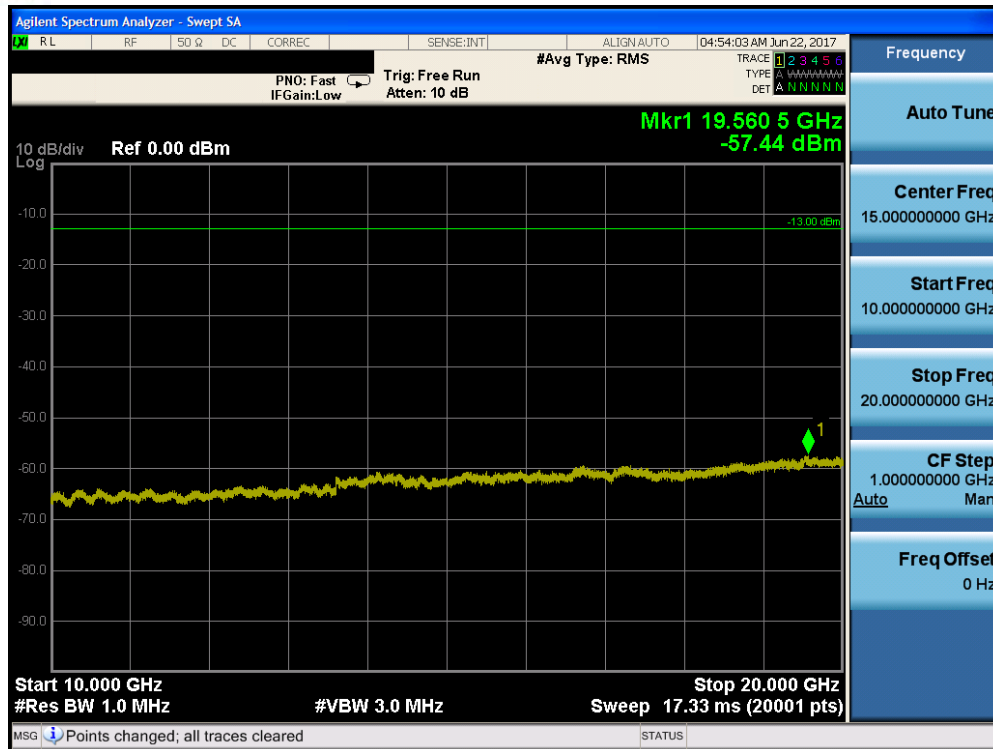


Plot 7-83. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

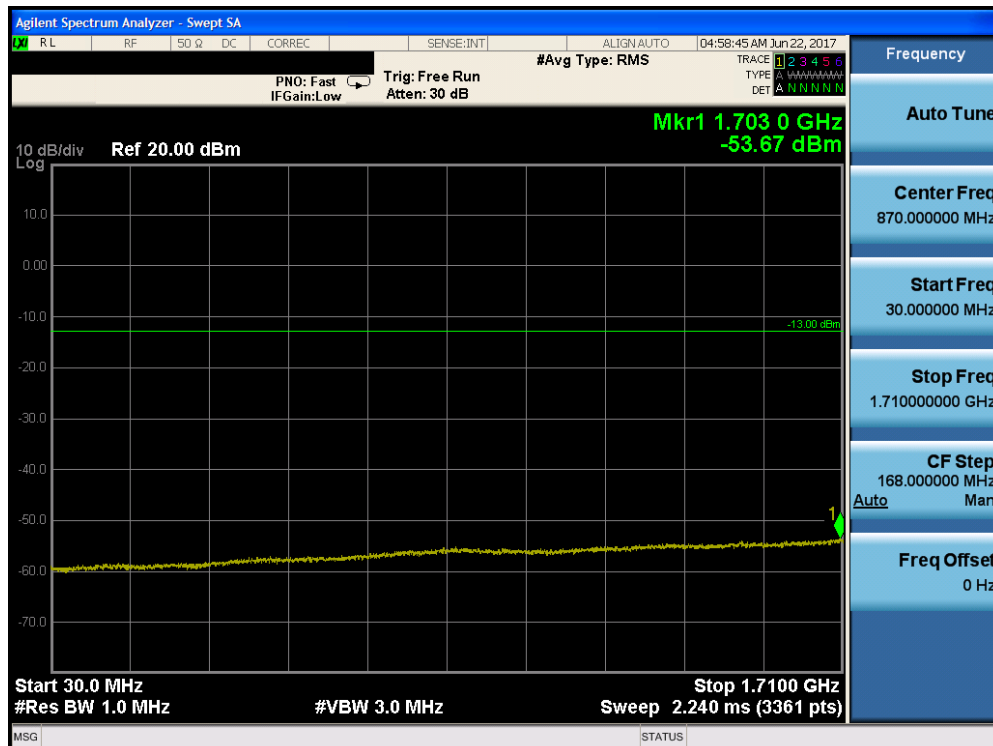


Plot 7-84. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 60 of 166                  |

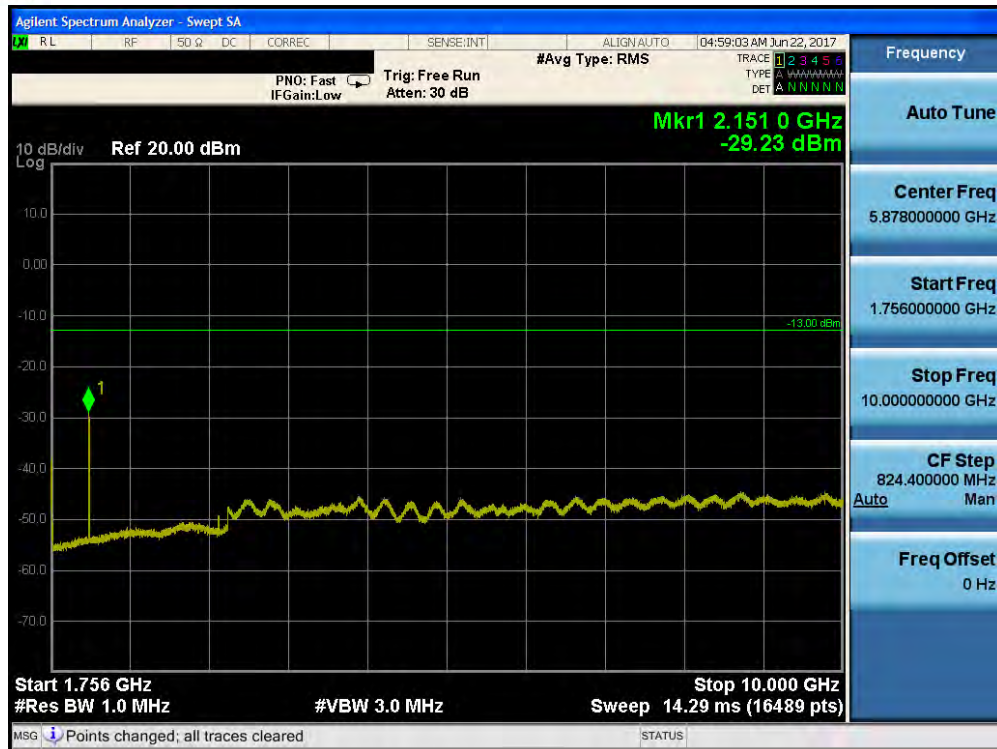


Plot 7-85. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

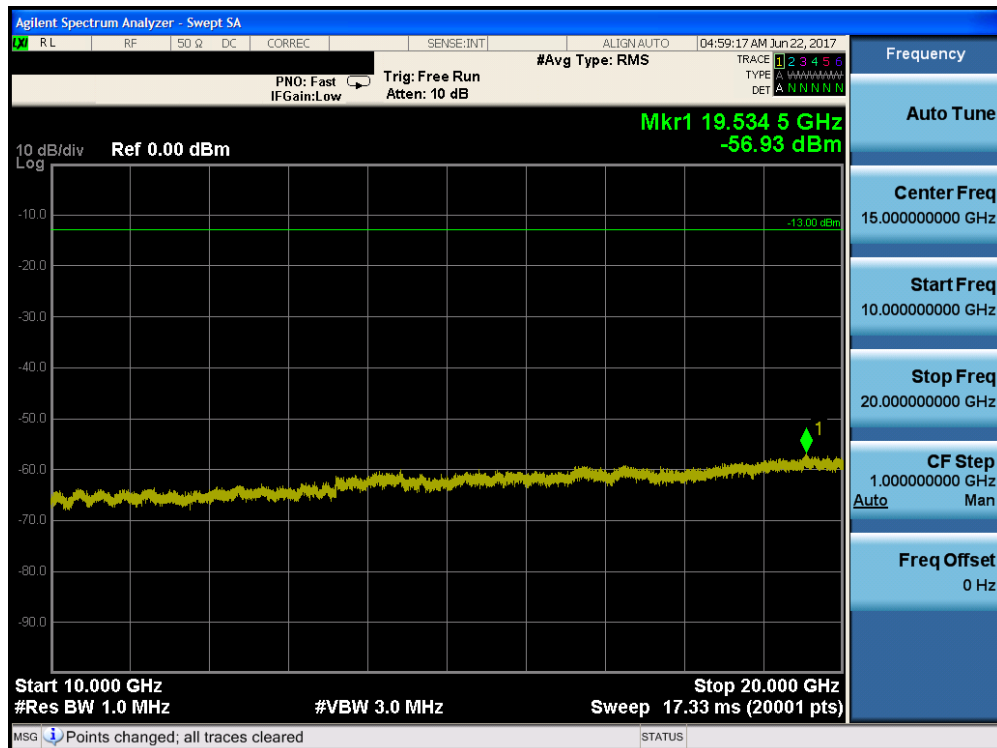


Plot 7-86. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 61 of 166                  |



Plot 7-87. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

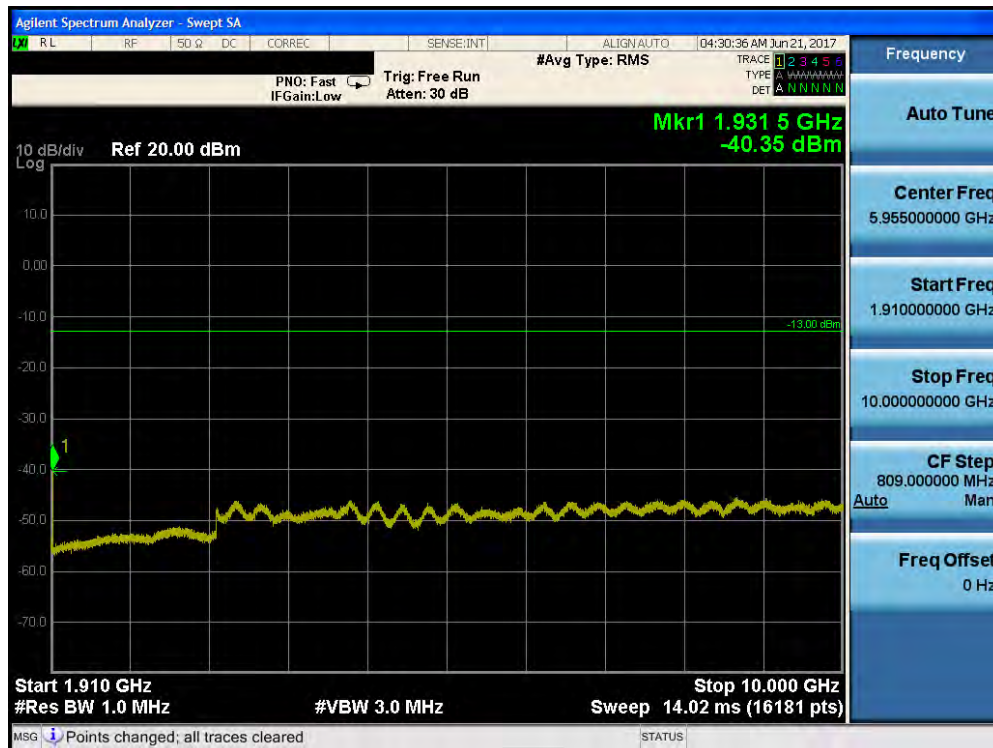


Plot 7-88. Conducted Spurious Plot (Band 4 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 62 of 166                  |

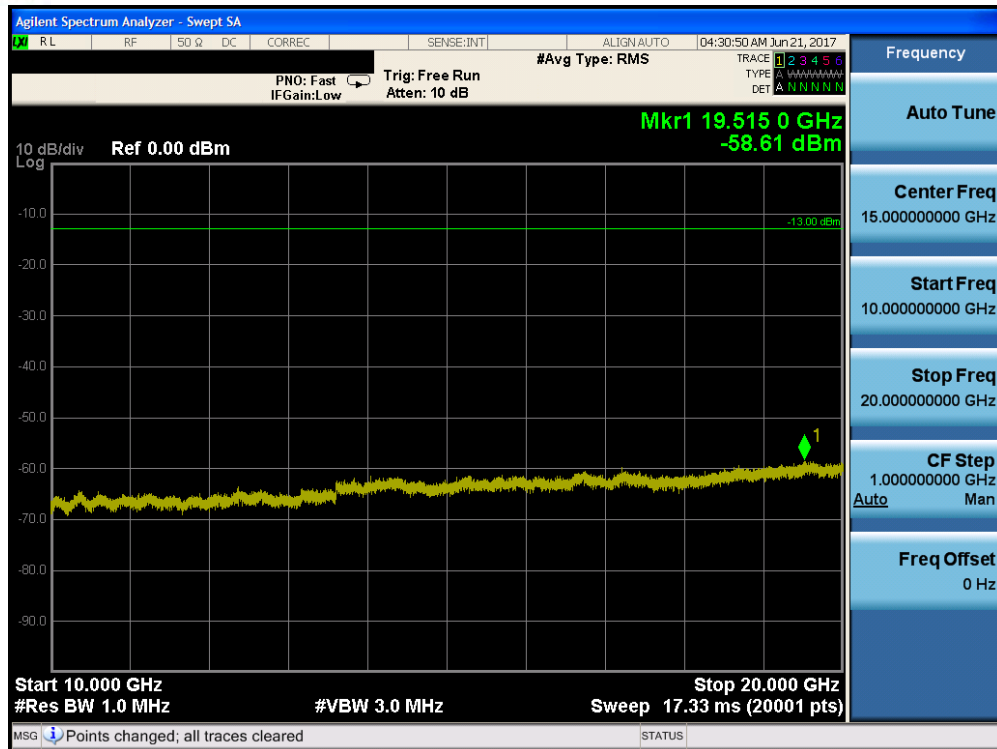


Plot 7-89. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-90. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 63 of 166                  |

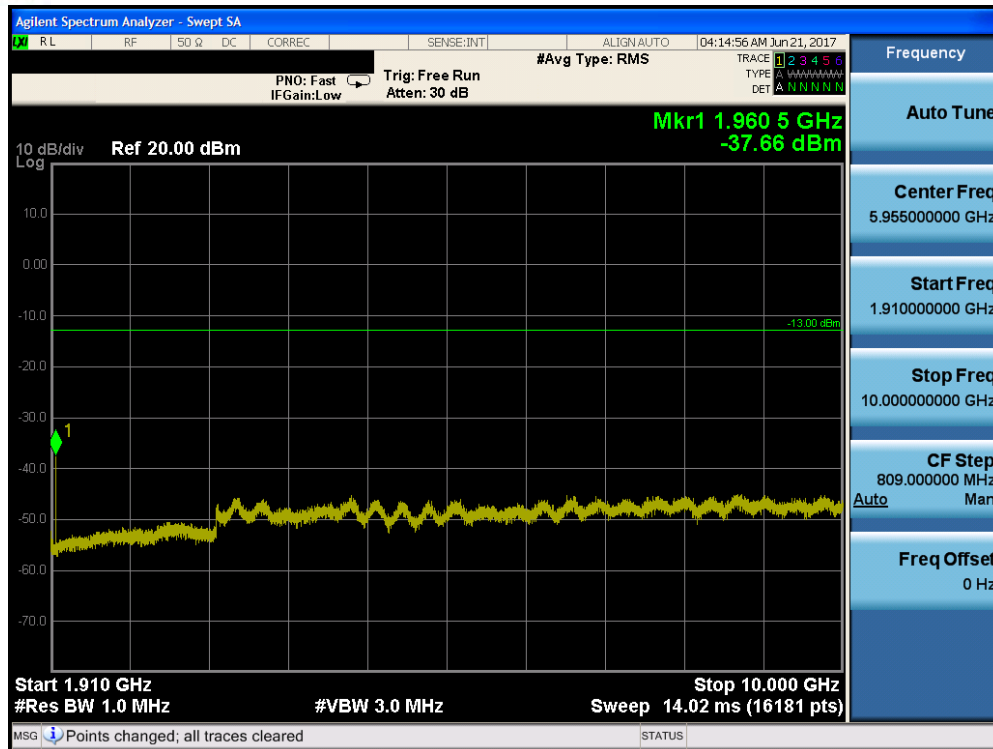


Plot 7-91. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

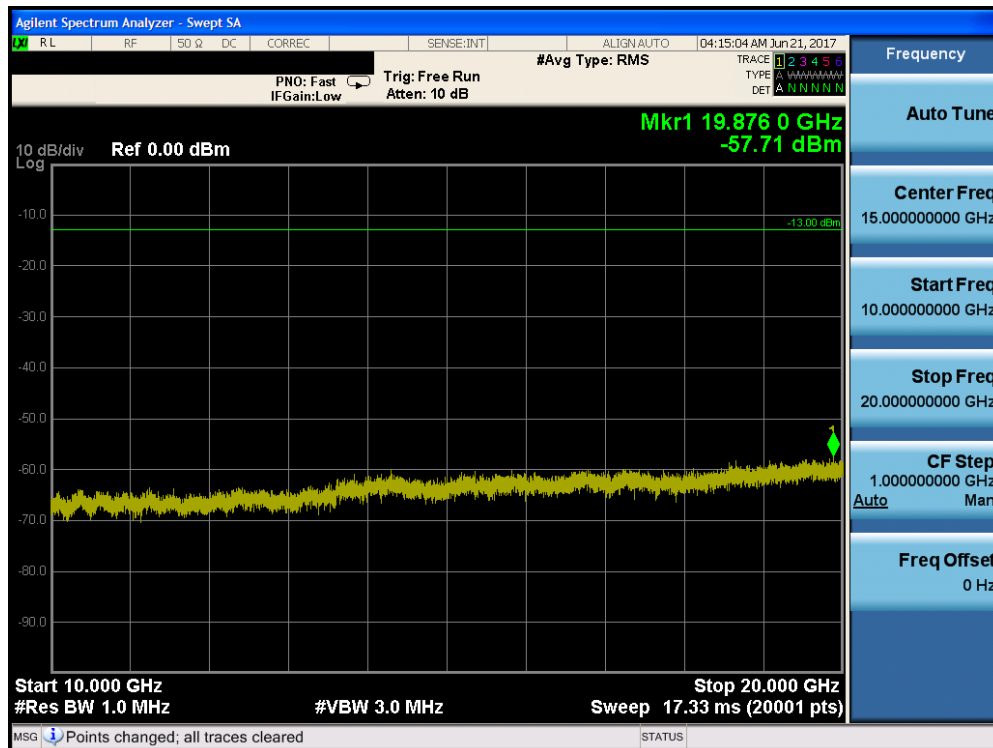


Plot 7-92. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 64 of 166                  |



Plot 7-93. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

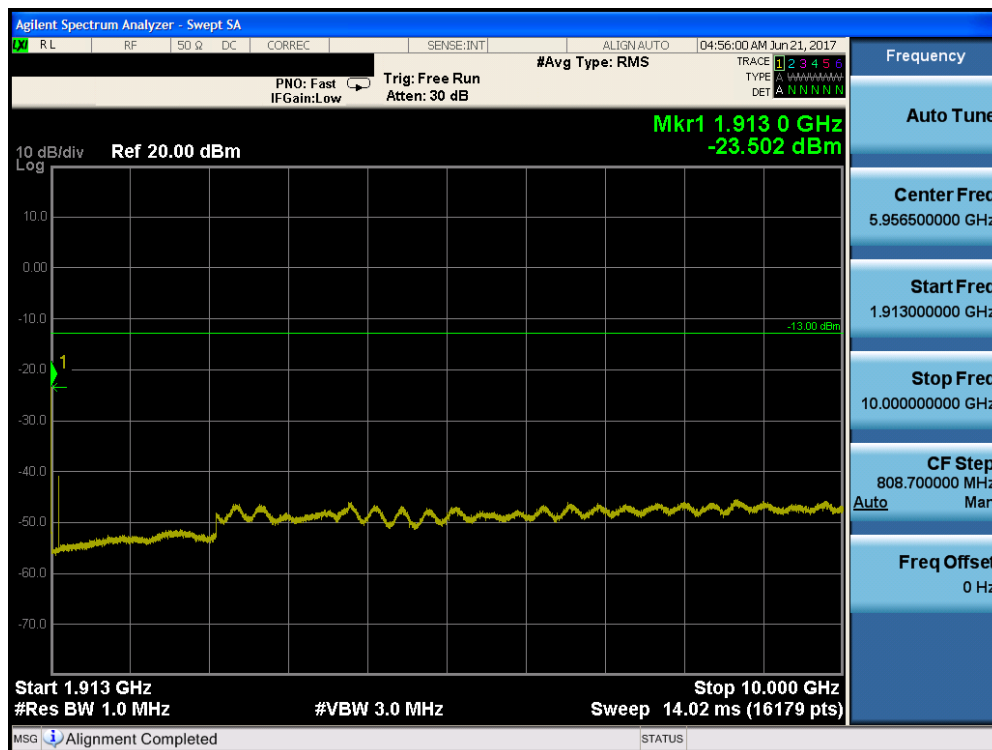


Plot 7-94. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 65 of 166                  |

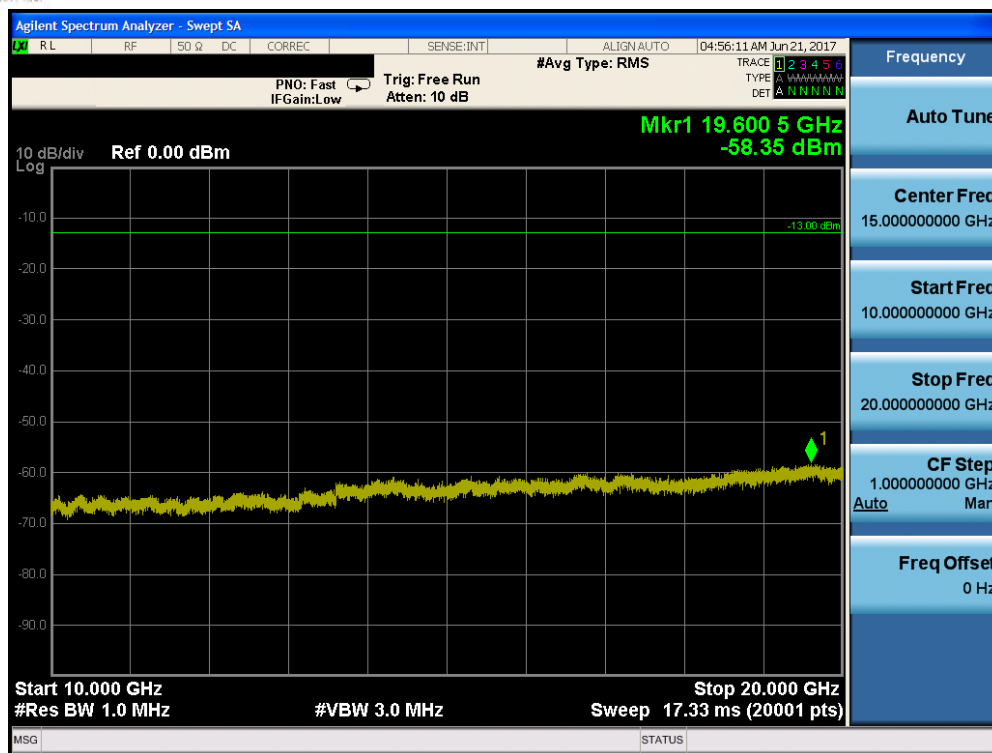


Plot 7-95. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

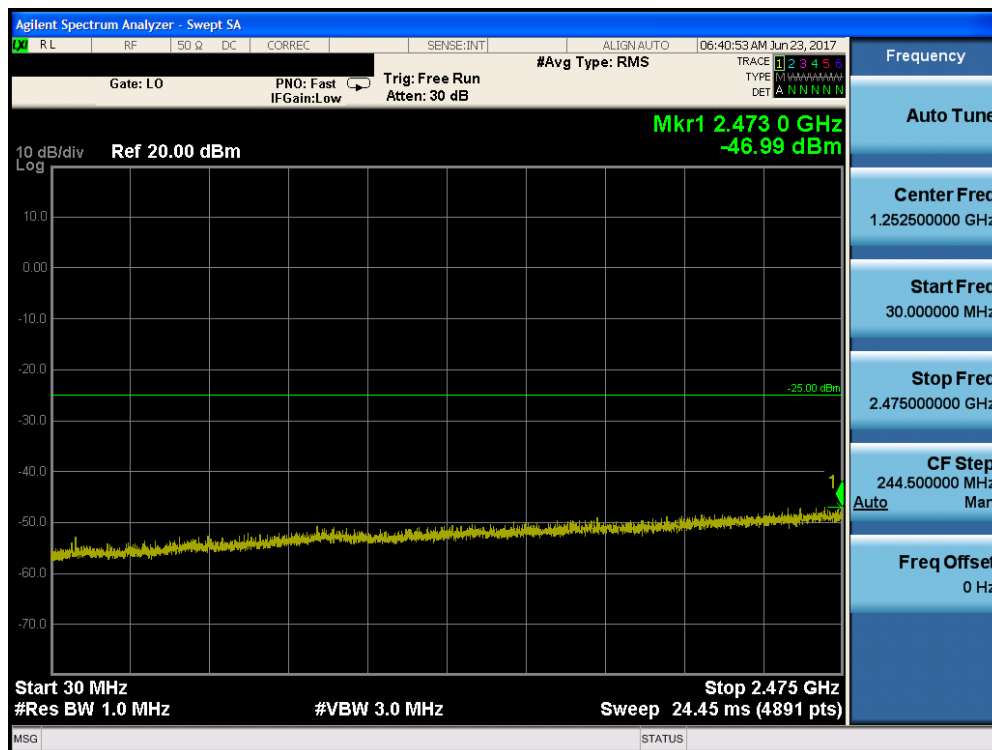


Plot 7-96. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                                                                                                            |                    |                                 |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                               | EUT Type:<br>Watch | Page 66 of 166                  |

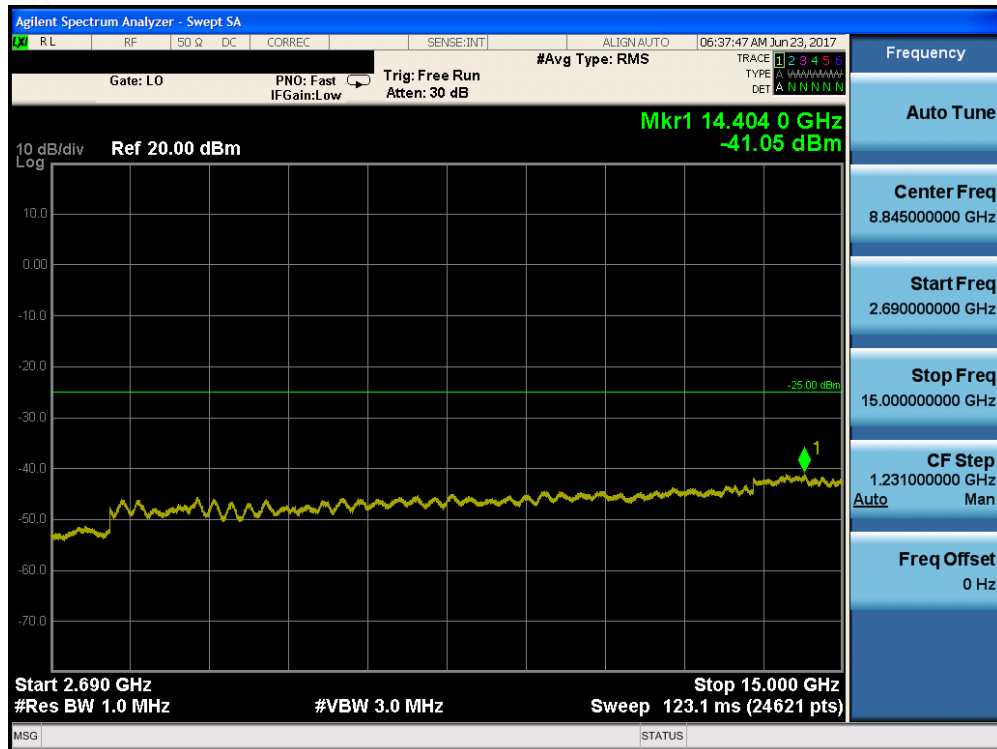


Plot 7-97. Conducted Spurious Plot (Band 2/25 – 1.4MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

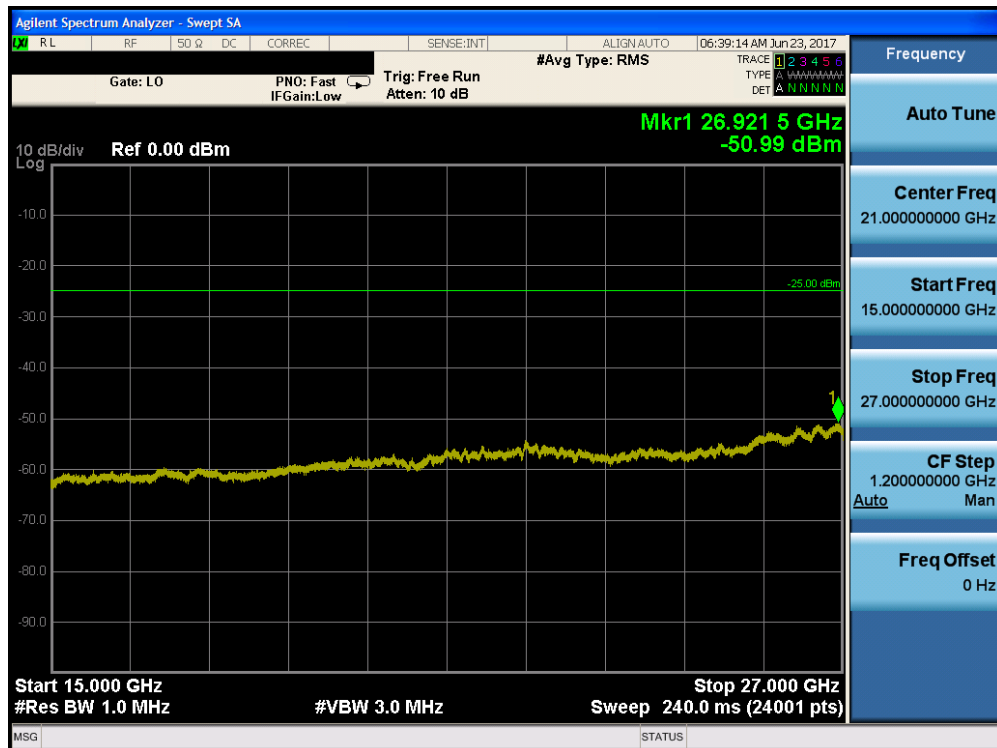


Plot 7-98. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 67 of 166                  |

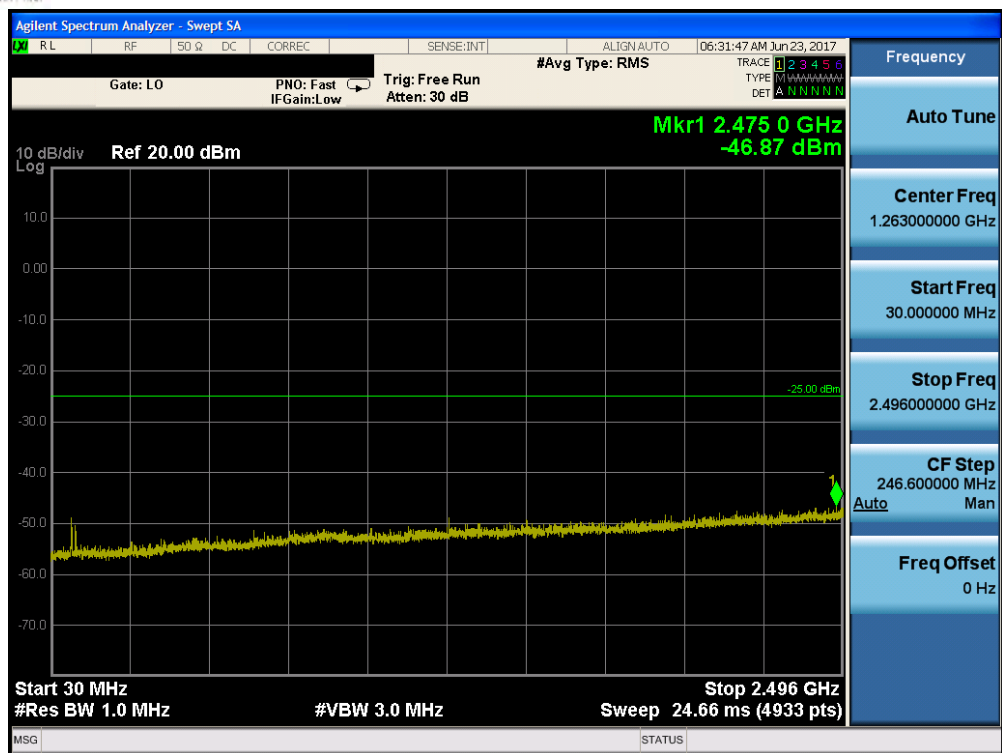


Plot 7-99. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

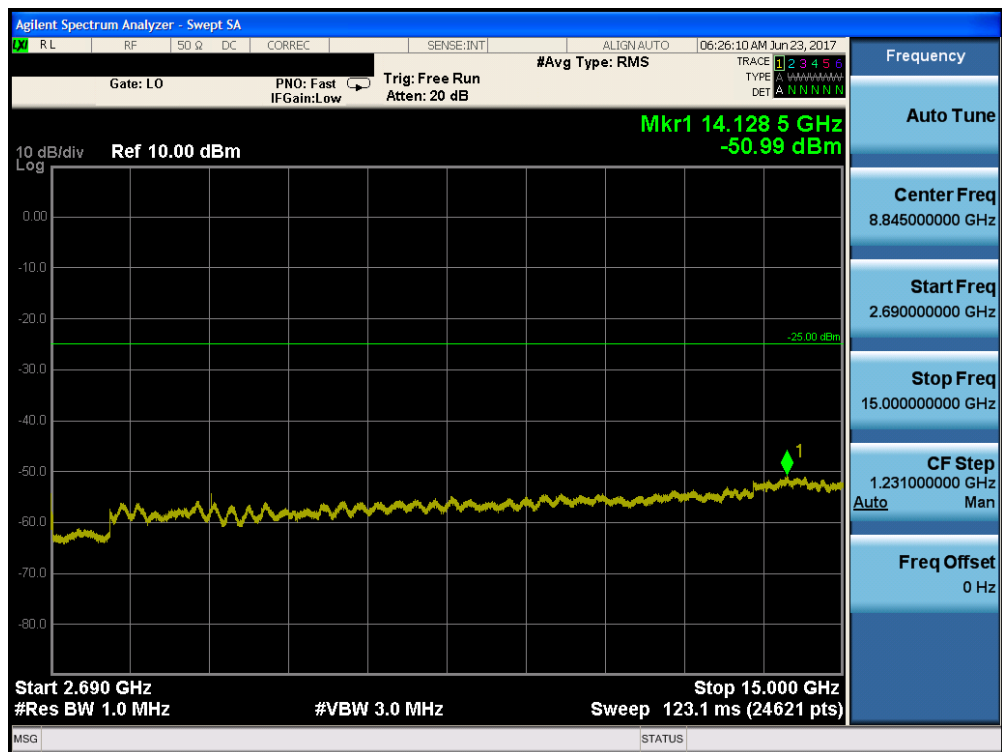


Plot 7-100. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 68 of 166                  |

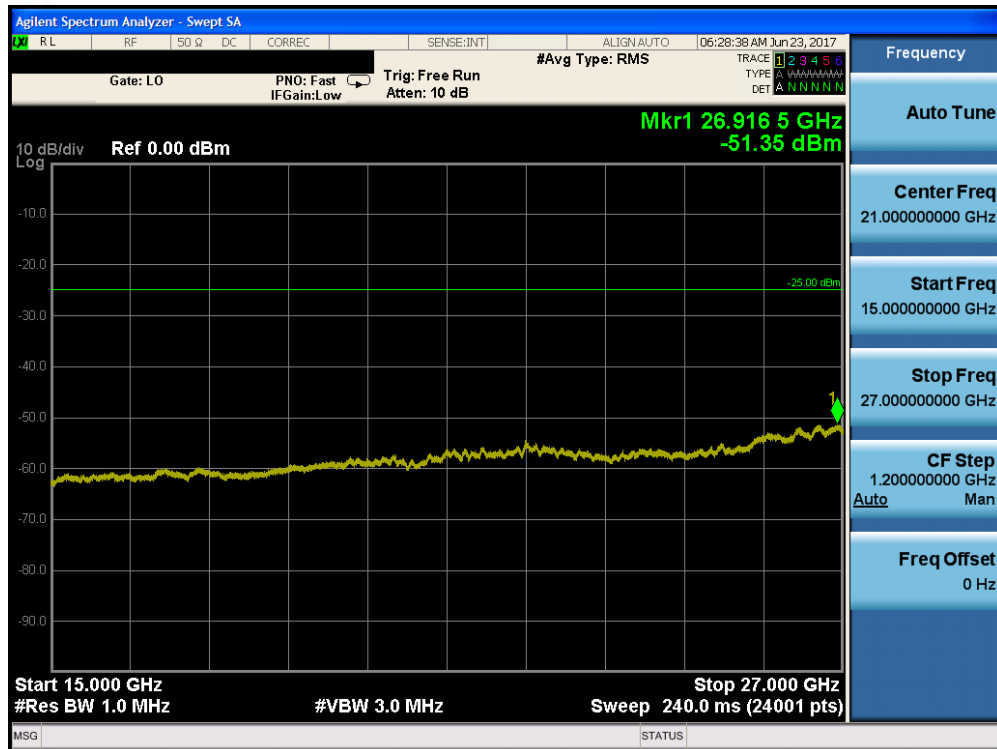


Plot 7-101. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

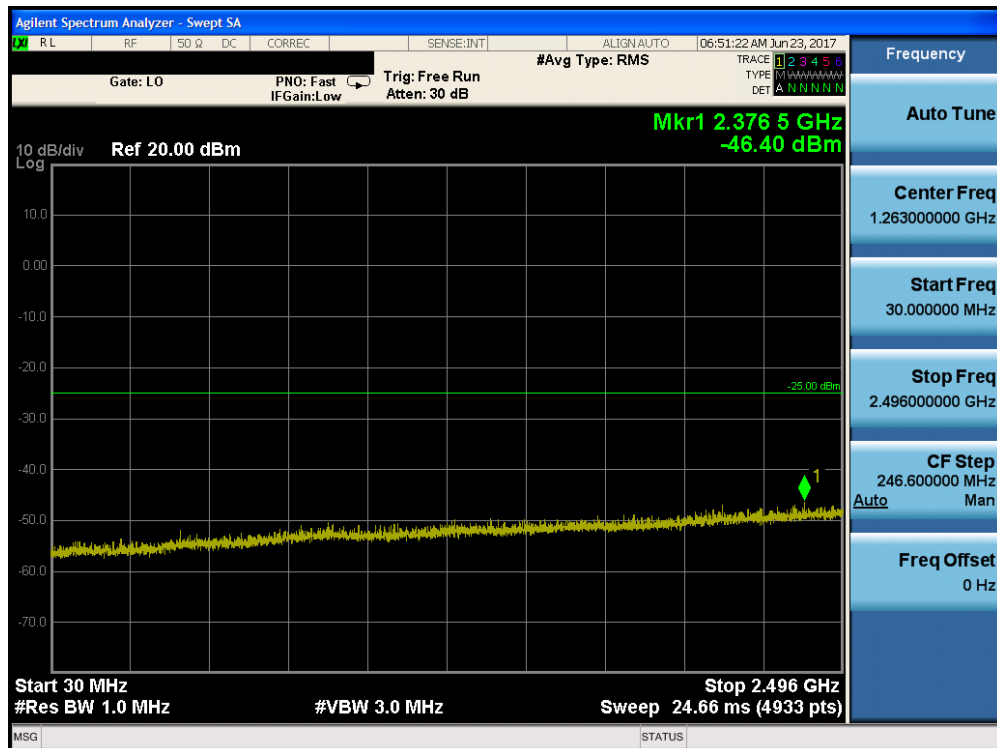


Plot 7-102. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

|                                               |                                                                                                                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             |  <b>FCC Pt. 22, 24, &amp; 27 LTE MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                                                                                                                   | EUT Type:<br>Watch | Page 69 of 166                  |

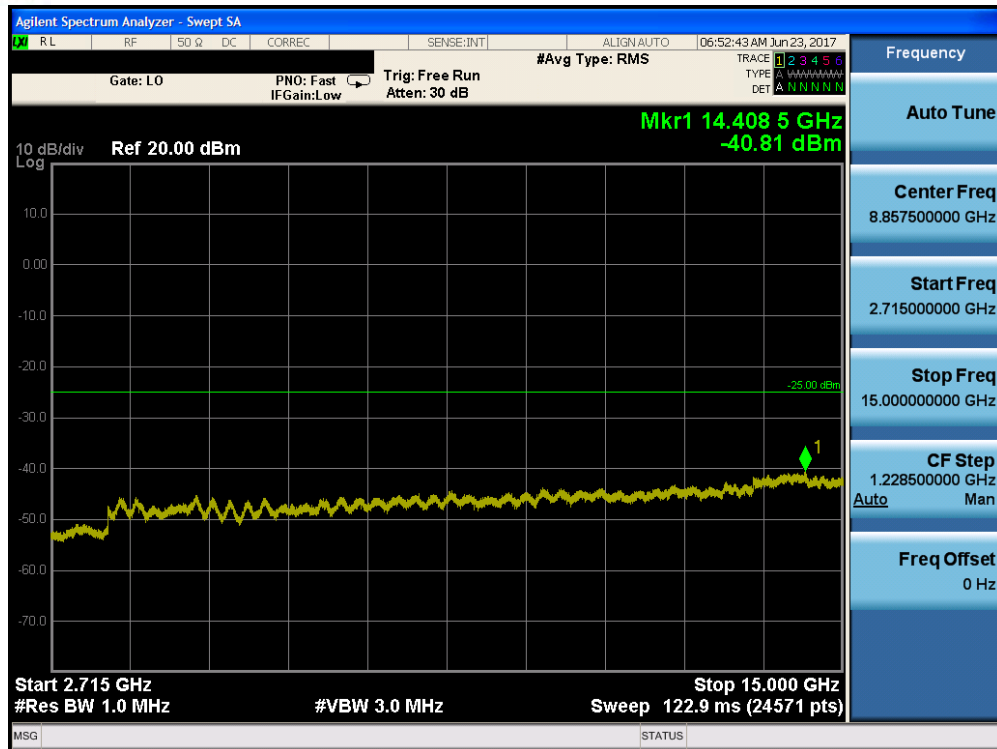


Plot 7-103. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

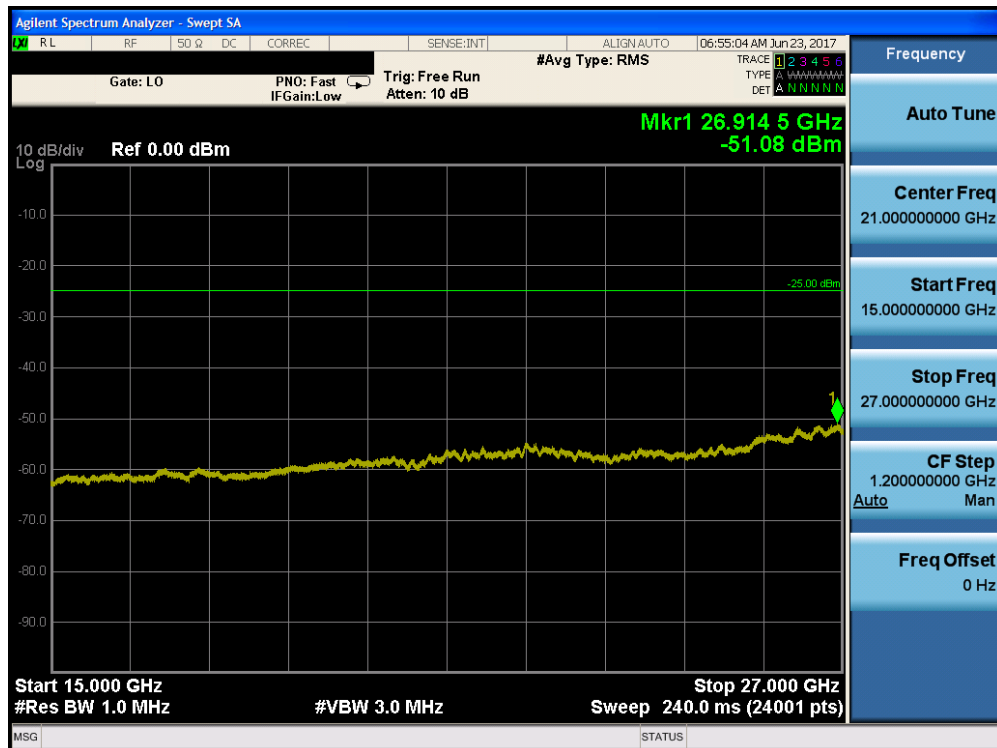


Plot 7-104. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 70 of 166                  |



Plot 7-105. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-106. Conducted Spurious Plot (Band 41 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

|                                               |                                                                |                    |                                 |
|-----------------------------------------------|----------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A1861                             | FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT<br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1706160002-61-03-R4.BCG | Test Dates:<br>6/7-8/18/2017                                   | EUT Type:<br>Watch | Page 71 of 166                  |