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MEASUREMENT REPORT FCC Part 90 LTE Band 14

Applicant Name:
Harris Corporation
150 Apollo Drive
Chelmsford, MA 01824
USA

Date of Testing:
3/25 - 3/28/2014
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0Y1403260627.BV8

FCC ID:	BV8BBPBM100
APPLICANT:	HARRIS CORPORATION

Application Type: Class II Permissive Change
FCC Classification: Licensed Non-Broadcast Transmitter (TNB)
FCC Rule Part(s): §2; §90
EUT Type: Wireless Module
Model(s): PBM-100
Test Device Serial No.: identical prototype [S/N: Unit#2]
Test Procedure(s): ANSI/TIA-603-C-2004, KDB 971168 v02r01
Class II Perm. Change: Adding Band 14 LTE (788-798 MHz) under Part 90
Original Grant Date: February 10, 2012

Mode	BW (MHz)	Emission Designator	Tx Frequency (MHz)	Modulation	Conducted Power	
					Max. Power (W)	Max. Power (dBm)
LTE Band 14	5	4M50G7D	790.5 - 795.5	QPSK	0.168	22.25
LTE Band 14	5	4M52W7D	790.5 - 795.5	16-QAM	0.178	22.51
LTE Band 14	10	9M00G7D	793	QPSK	0.152	21.83
LTE Band 14	10	9M02W7D	793	16-QAM	0.150	21.76

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. 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



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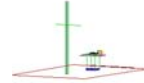
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MEASUREMENT REPORT

FCC Part 90

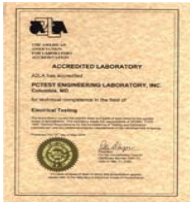


§2.1033 General Information

APPLICANT: Harris Corporation
APPLICANT ADDRESS: 150 Apollo Drive
 Chelmsford, MA 01824, USA
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §90
BASE MODEL: PBM-100
FCC ID: BV8BBPBM100
FCC CLASSIFICATION: Licensed Non-Broadcast Transmitter (TNB)
MODULATIONS: LTE (QPSK/16-QAM)
FREQUENCY TOLERANCE: 1.25ppm
Test Device Serial No.: Unit#2 ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: 3/25 - 3/28/2014
TEST REPORT S/N: 0Y1110271887-R2.BV8

Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab. located in Columbia, MD 21045, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451A-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451A-1) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

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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.

1.2 Testing Facility

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (See Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 28, 2009.

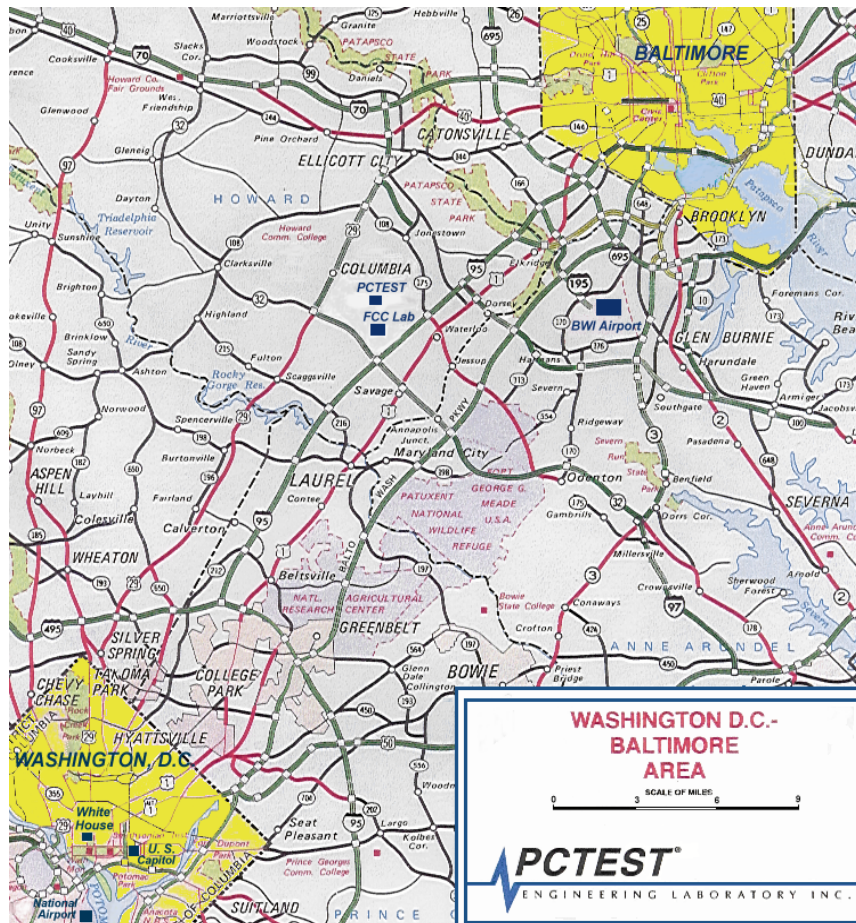


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Harris Wireless Module FCC ID: BV8BBPBM100**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function.

During testing, the EUT was attached to a Harris Test Jig (USBMA-SMA v1.2) that powered the EUT. Power was provided via DC Power Supply. The EUT was set to continuous transmission at max power through connection to a CMW500 LTE Call Box. All modulations (QPSK, 16QAM) and RB sizes and RB offsets were investigated. Worst case emissions are reported.

During radiated testing, the EUT was connected to a temporary antenna. This temporary antenna is only used to provide a termination to the main antenna port during various radiated measurements. Additionally, it will not be marketed with the EUT.

2.2 EUT Capabilities

The EUT has the following capabilities: LTE operating in Band 14.

2.3 EMI Suppression Device(s)/Modifications

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

2.4 Labeling Requirements

Per 2.925

The FCC identifier shall be permanently affixed to the equipment and shall be readily visible to the purchaser at the time of purchase.

Per 15.19; Docket 95-19

In addition to this requirement, a device subject to certification shall be labeled as follows:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).

Please see attachment for FCC ID label and label location.

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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

ANSI/TIA-603-C-2004 and KDB 971168 v02r01 was utilized for testing. The radiated spurious measurements were made outdoors at a 3-meter test range (See Figure 3-1). The equipment under test is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. This power level was recorded using a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This level is recorded with the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

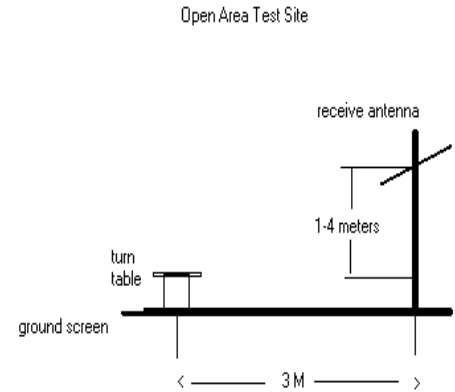


Figure 3-1. Diagram of 3-meter outdoor test range

Deviation from Measurement Procedure.....None

3.2 Occupied Bandwidth Emission Limits

§2.1049

- On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB.
- Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. 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.

3.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §90.543(e)

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 10th harmonic.

For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

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3.4 Radiated Spurious Emissions

§2.1053, §90.543(e)(2), §90.543(f).

Radiated spurious emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. This level is then measured with a broadband average power meter. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive average power meter reading. This spurious level is recorded with the power meter. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB.

Additionally, all emissions including harmonics in the band 1559-1610MHz shall be limited to -70dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80dBW EIRP for discrete emissions of less than 700Hz bandwidth.

3.5 Frequency Stability / Temperature Variation

§2.1055, §90.539(e)

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.000125\%$ (± 1.25 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

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4.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	LTx1	Licensed Transmitter Cable Set	1/29/2014	Bi-annual	7/29/2014	N/A
-	RE1-S2	Radiated Emissions Cable Set (UHF/EHF)	8/8/2013	Annual	8/8/2014	N/A
Agilent	N9020A	MXA Signal Analyzer	10/29/2013	Annual	10/29/2014	US46470561
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	7/24/2013	Biennial	7/24/2015	125518
ETS Lindgren	3160-09	18-26.5 GHz Standard Gain Horn	5/30/2012	Biennial	5/30/2014	135427
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	11/7/2012	Biennial	11/7/2014	128337
Mini-Circuits	VHF-1300+	High Pass Filter	1/29/2014	Bi-annual	7/29/2014	30716
Mini-Circuits	VHF-3100+	High Pass Filter	1/27/2014	Annual	1/27/2015	30841
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	N/A		N/A	100976
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	5/31/2013	Annual	5/31/2014	100071
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	5/31/2013	Annual	5/31/2014	100040
Rohde & Schwarz	ESU26	EMI Test Receiver	1/27/2014	Annual	1/27/2015	100342
Seekonk	NC-100	Torque Wrench (8" lb)	3/5/2012	Triennial	3/5/2015	N/A
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/28/2014	Biennial	1/28/2016	A051107

Table 4-1. Test Equipment

Note: Equipment in the table above with "N/A" for calibration date was only used to establish a connection with the EUT. This equipment was not used to make calibrated measurements.

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5.0 SAMPLE CALCULATIONS

The calculations below are examples only and do not necessarily relate to the EUT.

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Amplitude/Angle Modulated

16QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Combination (Audio/Data)

Spurious Radiated Emission – LTE

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The 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 terminal 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 1402.0 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) = 50.3 dBc.

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6.0 TEST RESULTS

6.1 Summary

Company Name: Harris Corporation
 FCC ID: BV8BBPBM100
 FCC Classification: Licensed Non-Broadcast Transmitter (TNB)
 Mode(s): LTE

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)					
2.1049	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 7.0
2.1051, 90.543(e)	Band Edge / Conducted Spurious Emissions	> 43 + 10log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions <65 + 10 log (P[Watts]) in a 6.25kHz bandwidth for emissions in the 769–775 MHz and 799-805 MHz bands		PASS	Section 7.0
2.1046	Transmitter Conducted Output Power	N/A		PASS	Section 6.2
2.1053, 90.543(e)	Undesirable Emissions	< 43 + 10log ₁₀ (P[Watts]) for all out-of-band emissions	RADIATED	PASS	Section 6.3
2.1053, 90.543(f)	Undesirable Emissions in the 1559-1610MHz band	< -40dBm/MHz EIRP (wideband) < -50dBm EIRP (narrowband)		PASS	Section 6.5
2.1055, 90.539(e)	Frequency Stability	< 1.25 ppm		PASS	Section 6.6

Table 6-1. Summary of Test Results

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6.2 Conducted Output Power

§2.1046

The **Harris Wireless Module FCC ID: BV8BBPBM100** was powered by a DC Power supply through a test PCB. Via RF Cable, the Main Antenna port of the EUT was connected to a spectrum analyzer while the CMW500 LTE Callbox was used only to establish a connection. Transmit power readings were taken from the spectrum analyzer per Section 5.2.1 of KDB 971168v02r01.

Instrument settings:

- a.) Span set to > 1.5 times the OBW.
- b.) RBW set to 1 – 5% of OBW (not more than 1MHz)
- c.) VBW set to 3MHz.
- d.) Number of sweep points set to 5000 (>2*span/RBW)
- e.) Sweep time set to auto couple
- f.) Detector set to RMS
- g.) Trace averaged at least 100 traces in RMS power averaging mode.
- h.) Since duty cycle of >98% (measured using zero span on spectrum analyzer with sufficient response time and spacing between bins to permit accurate measurement of burst on/off time per Section 5.2.2 of KDB971168) cannot be achieved, signal gating was implemented by the spectrum analyzer to ensure that power was measured only when the EUT is actively transmitting at full power.
- i.) Channel Power Function utilized to integrate power across the OBW

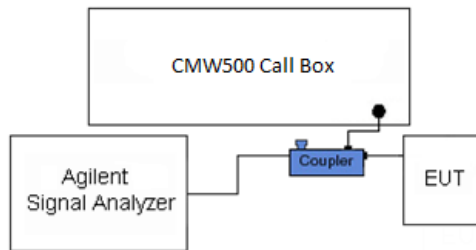


Figure 6-1. Conducted Output Power Test Setup Diagram

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Freq. (MHz)	MCS Level	Mod.	BW	RB Size	RB Offset	Maximum Average Power [dBm]
790.5	0	QPSK	5 MHz	1	0	21.36
790.5	11	16QAM	5 MHz	1	0	22.05
790.5	0	QSPK	5 MHz	1	24	21.63
790.5	11	16QAM	5 MHz	1	24	22.11
790.5	0	QPSK	5 MHz	12	6	21.10
790.5	11	16QAM	5 MHz	12	6	21.16
790.5	0	QSPK	5 MHz	25	0	20.82
790.5	11	16QAM	5 MHz	25	0	21.06
795.5	0	QPSK	5 MHz	1	0	21.62
795.5	11	16QAM	5 MHz	1	0	22.01
795.5	0	QPSK	5 MHz	1	24	22.25
795.5	11	16QAM	5 MHz	1	24	22.51
795.5	0	QPSK	5 MHz	12	6	21.52
795.5	11	16QAM	5 MHz	12	6	21.64
795.5	0	QPSK	5 MHz	25	0	21.54
795.5	11	16QAM	5 MHz	25	0	21.41
793	0	QPSK	10 MHz	1	0	20.80
793	11	16QAM	10 MHz	1	0	20.76
793	0	QPSK	10 MHz	1	49	21.83
793	11	16QAM	10 MHz	1	49	21.76
793	0	QPSK	10 MHz	25	12	21.43
793	11	16QAM	10 MHz	25	12	21.73
793	0	QPSK	10 MHz	50	0	21.71
793	11	16QAM	10 MHz	50	0	21.76

Table 6-2. Maximum Average Conducted Output Power

6.3 Radiated Spurious Emissions

§2.1053, §90.543(e)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 790.50 MHz
 BW / MODULATION SIGNAL: 5MHz QPSK
 DISTANCE: 3 meters
 LIMIT: -13.00 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	Margin (dB)
2371.50	-22.76	9.37	-13.39	H	-0.4
3162.00	-54.17	9.44	-44.73	H	-31.7
3952.50	-46.17	9.48	-36.69	H	-23.7
4743.00	-48.31	10.81	-37.50	H	-24.5

Table 6-3. Radiated Spurious Data (5MHz)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This unit was tested while powered by a DC power supply. The EUT was tested in three orthogonal planes and in all test configurations and positioning. The worst case emissions were found while testing in QPSK modulation, 1RB size, and 0 RB Offset. The worst case emissions were found with the EUT in the horizontally flat position, with the antenna sitting vertical. The data reported in the table above was measured in this test setup.

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Radiated Spurious Emissions (Cont'd)

§2.1053, §90.543(e)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 795.50 MHz
 BW / MODULATION SIGNAL: 5MHz QPSK
 DISTANCE: 3 meters
 LIMIT: -13.00 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	Margin (dB)
2386.50	-30.43	9.34	-21.09	H	-8.1
4116.50	-47.63	10.15	-37.47	H	-24.5
5846.50	-45.32	11.44	-33.88	H	-20.9
7576.50	-43.50	11.09	-32.41	H	-19.4

Table 6-4. Radiated Spurious Data (5MHz BW)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This unit was tested while powered by a DC power supply. The EUT was tested in three orthogonal planes and in all test configurations and positioning. The worst case emissions were found while testing in QPSK modulation, 1RB size, and 0 RB Offset. The worst case emissions were found with the EUT in the horizontally flat position, with the antenna sitting vertical. The data reported in the table above was measured in this test setup.

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Radiated Spurious Emissions (Cont'd)

§2.1053, §90.543(e)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	793.000	MHz
BW / MODULATION SIGNAL:	10MHz QPSK	
DISTANCE:	3	meters
LIMIT:	-13.00	dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	Margin (dB)
2379.00	-27.99	9.36	-18.63	H	-5.6
3172.00	-47.55	9.45	-38.09	H	-25.1
3965.00	-45.16	9.53	-35.63	H	-22.6
4758.00	-56.47	10.81	-45.66	H	-32.7

Table 6-5. Radiated Spurious Data (10MHz BW)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This unit was tested while powered by a DC power supply. The EUT was tested in three orthogonal planes and in all test configurations and positioning. The worst case emissions were found while testing in QPSK modulation, 1RB size, and 0 RB Offset. The worst case emissions were found with the EUT in the horizontally flat position, with the antenna sitting vertical. The data reported in the table above was measured in this test setup.

FCC ID: BV8BBPBM100		FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
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6.4 Radiated Spurious Emissions in 1559 – 1610MHz Band

§2.1053, §90.543(f)

All spurious emissions found in the 1559-1610 MHz band were wideband emissions and the limit of -70dBW/MHz (-40dBm/MHz) was applied. Measurements in table below utilized resolution bandwidth of 1MHz.

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	790.50	MHz
BW / MODULATION:	5 MHz QPSK	
DISTANCE:	3	meters
WIDEBAND EMISSION LIMIT:	-40	dBm/MHz

FREQUENCY (MHz)	EMISSION TYPE	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1581.00	WIDEBAND	-49.38	8.44	-40.94	H	-0.94

Table 6-6. Radiated Spurious Data (5Mhz)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This unit was tested while powered by a DC power supply. The EUT was tested in three orthogonal planes and in all test configurations and positioning. The worst case emissions were found while testing in QPSK modulation, 1RB size, and 24 RB Offset. The worst case emissions were found with the EUT in the horizontally flat position, with the antenna sitting vertical. The data reported in the table above was measured in this test setup.

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Radiated Spurious Emissions in 1559 – 1610MHz Band (Cont'd)

§2.1053, §90.543(f)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	795.50	MHz
BW / MODULATION:	5 MHz QPSK	
DISTANCE:	3	meters
WIDEBAND EMISSION LIMIT:	-40	dBm/MHz

FREQ (MHz)	EMISSION TYPE	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1591.00	WIDEBAND	-49.80	8.46	-41.34	H	-1.34

Table 6-7. Radiated Spurious Data (5MHz)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This unit was tested while powered by a DC power supply. The EUT was tested in three orthogonal planes and in all test configurations and positioning. The worst case emissions were found while testing in QPSK modulation, 1RB size, and 24 RB Offset. The worst case emissions were found with the EUT in the horizontally flat position, with the antenna sitting vertical. The data reported in the table above was measured in this test setup.

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Radiated Spurious Emissions in 1559 – 1610MHz Band (Cont'd)

§2.1053, §90.543(f)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 793.00 MHz
 BW / MODULATION: 10 MHz QPSK
 DISTANCE: 3 meters
 WIDEBAND EMISSION LIMIT: -40 dBm/MHz

FREQUENCY (MHz)	EMISSION TYPE	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1586.00	WIDEBAND	-51.22	8.82	-42.40	H	-2.40

Table 6-8. Radiated Spurious Data (10MHz)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This unit was tested while powered by a DC power supply. The EUT was tested in three orthogonal planes and in all test configurations and positioning. The worst case emissions were found while testing in QPSK modulation, 1RB size, and 24 RB Offset. The worst case emissions were found with the EUT in the horizontally flat position, with the antenna sitting vertical. The data reported in the table above was measured in this test setup.

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6.5 Frequency Stability Measurements

\$2.1055, \$90.539(e)

OPERATING FREQUENCY: 795,500,000 Hz

REFERENCE VOLTAGE: 3.3 VDC

DEVIATION LIMIT: +/- 0.000125% or 1.25 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Average Freq. Dev. (Hz)	Deviation (%)
100 %	3.30	+ 20 (Ref)	795,500,009	8.62	0.0000011
100 %		- 30	795,500,006	6.19	0.0000008
100 %		- 20	795,500,002	1.58	0.0000002
100 %		- 10	795,499,994	-6.48	-0.0000008
100 %		0	795,499,986	-14.14	-0.0000018
100 %		+ 10	795,500,015	15.30	0.0000019
100 %		+ 20	795,500,005	4.95	0.0000006
100 %		+ 30	795,500,007	7.46	0.0000009
100 %		+ 40	795,500,010	9.89	0.0000012
100 %		+ 50	795,500,008	7.92	0.0000010
115 %	3.79	+ 20	795,500,002	1.78	0.0000002
Battery Endpoint	2.60	+ 20	795,500,009	8.50	0.0000011

Table 6-9. Frequency Stability Data

Frequency Stability Measurements (Cont'd)
§2.1055, §90.539(e)

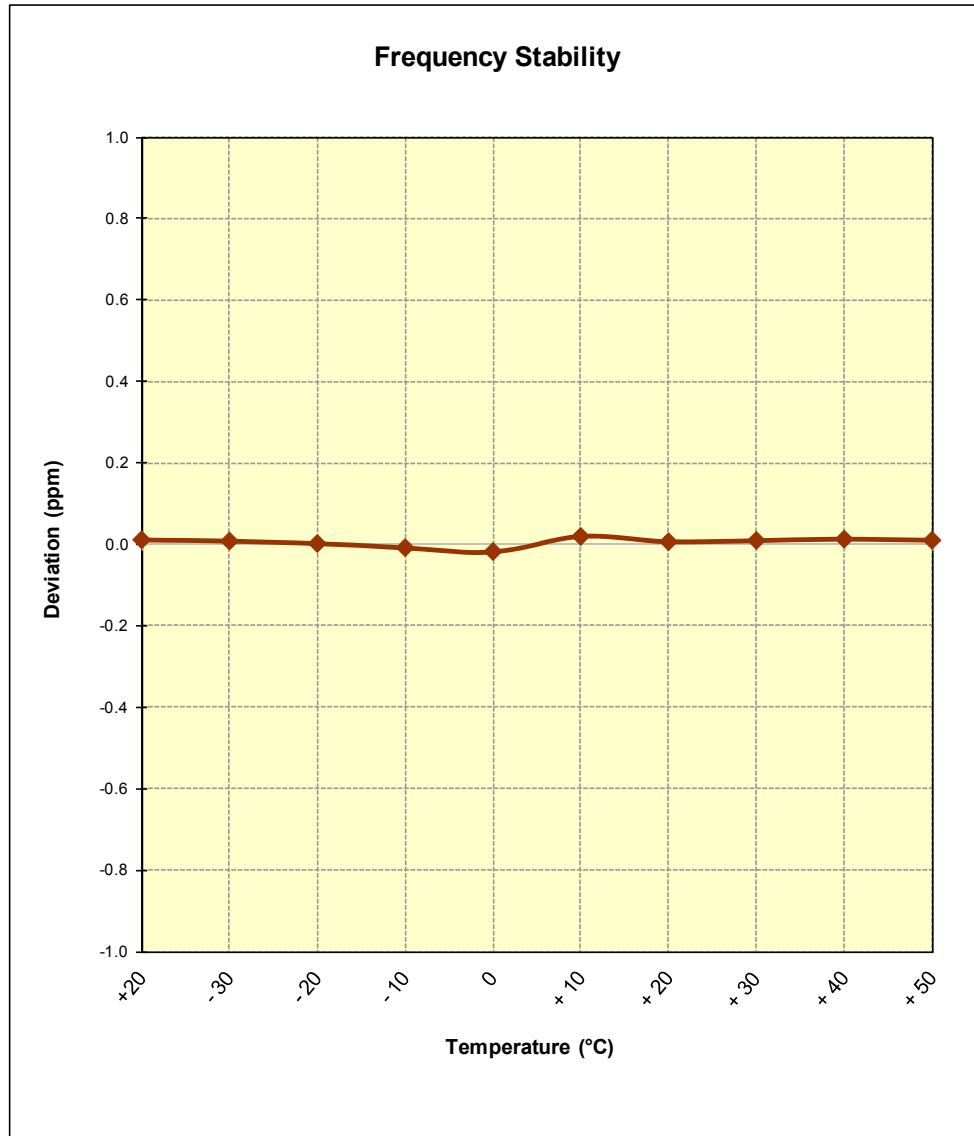
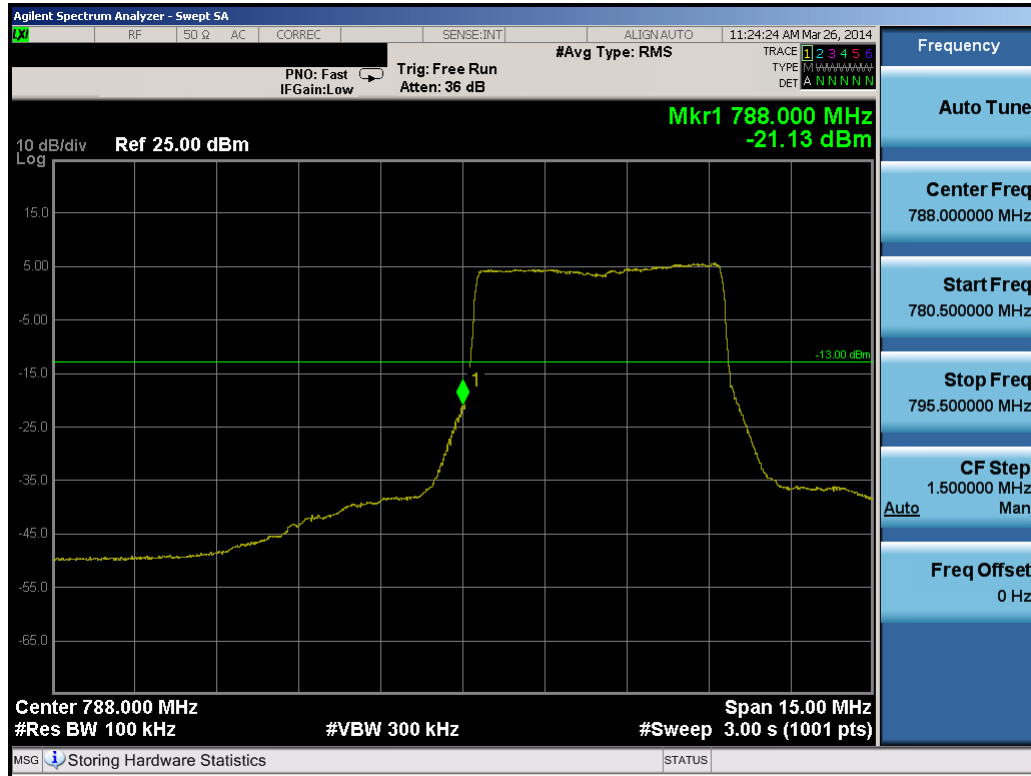


Figure 6-2. Frequency Stability Graph

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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7.0 5 MHz BANDWIDTH - PLOT(S) OF EMISSIONS

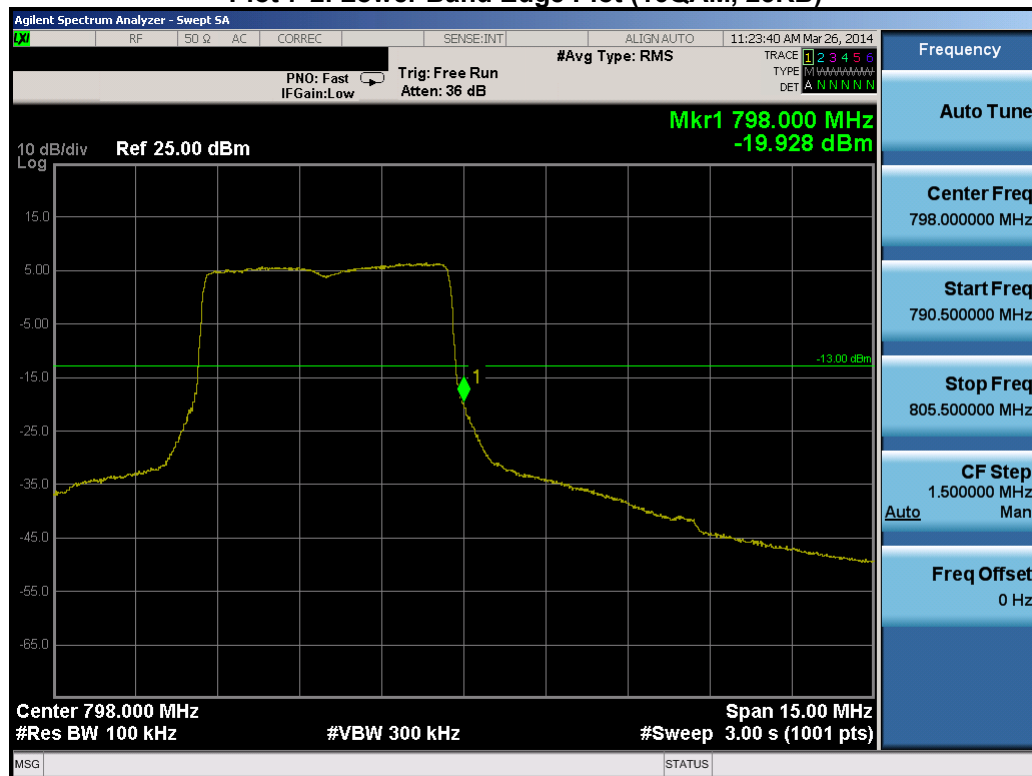


Plot 7-1. Lower Band Edge Plot (QPSK, 25RB)

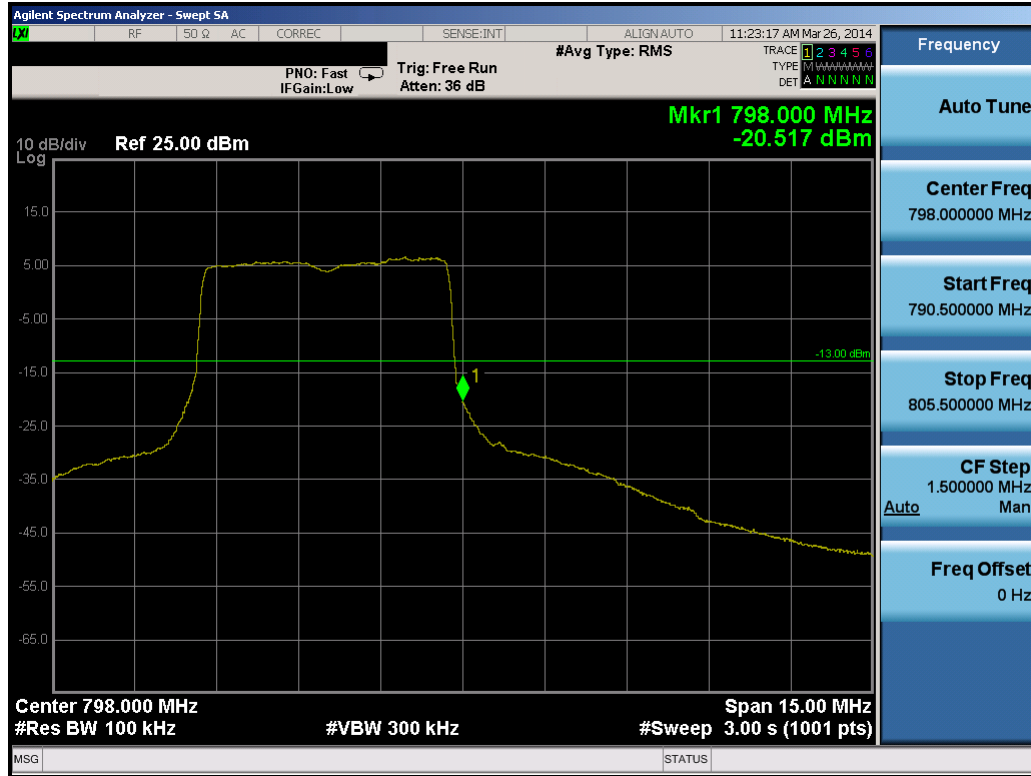
FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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Plot 7-2. Lower Band Edge Plot (16QAM, 25RB)



Plot 7-3. Upper Band Edge Plot (QPSK, 25RB)

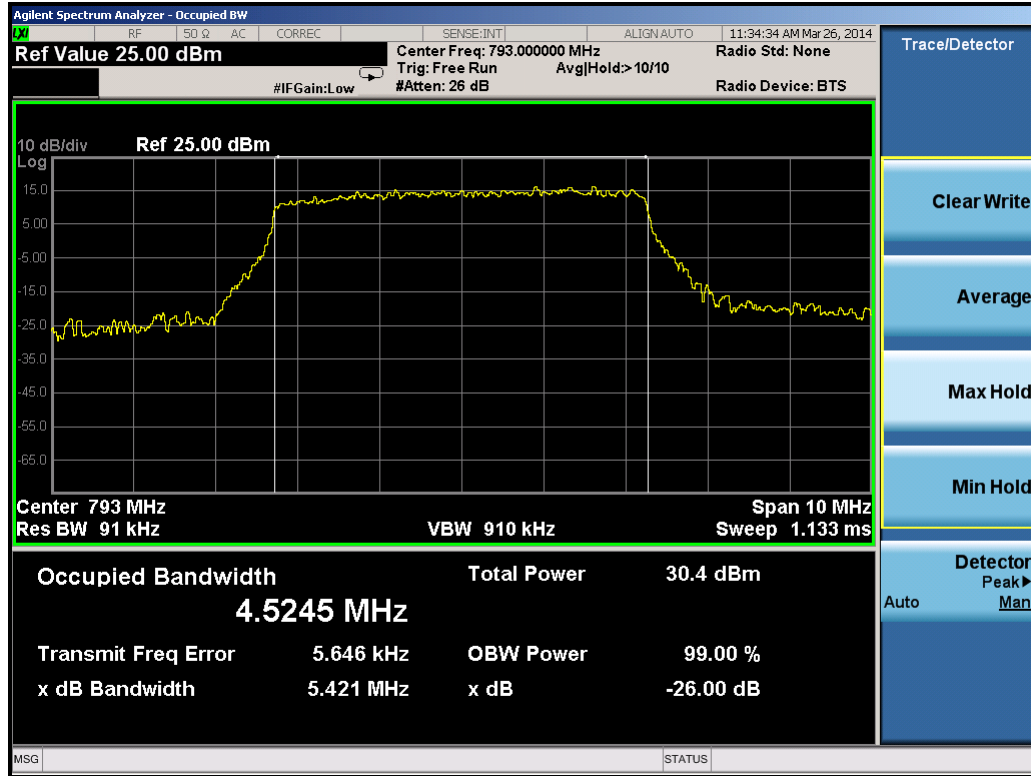


Plot 7-4. Upper Band Edge Plot (16QAM, 25RB)



Plot 7-5. Occupied Bandwidth Plot (QPSK, 25RB)

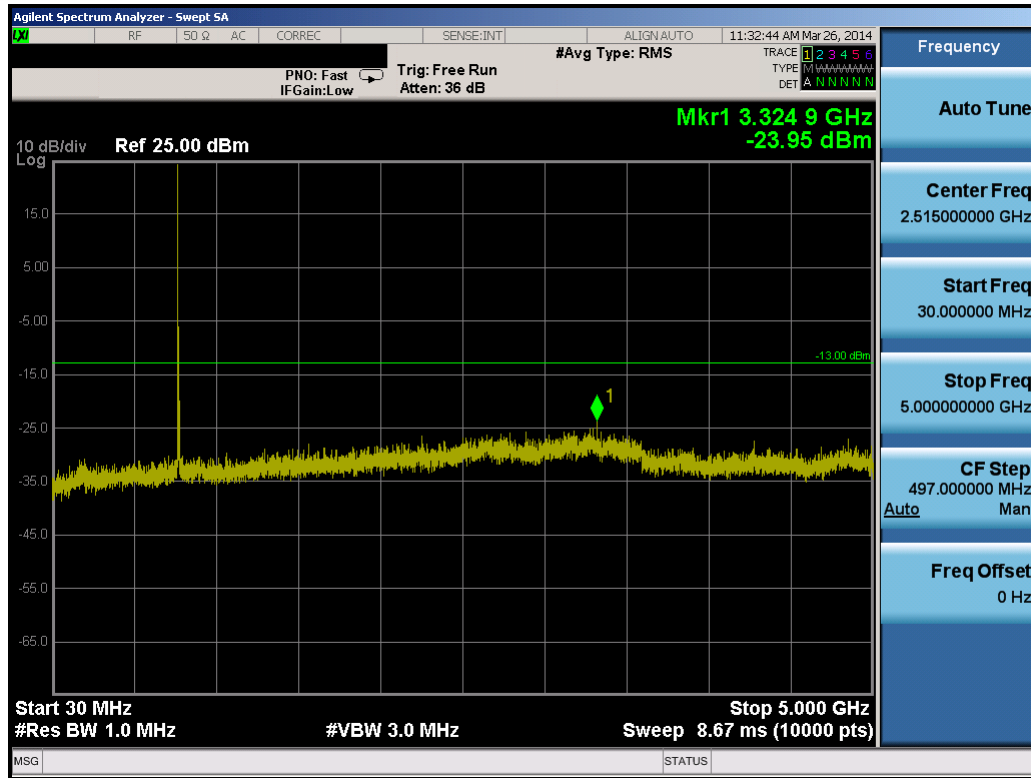
FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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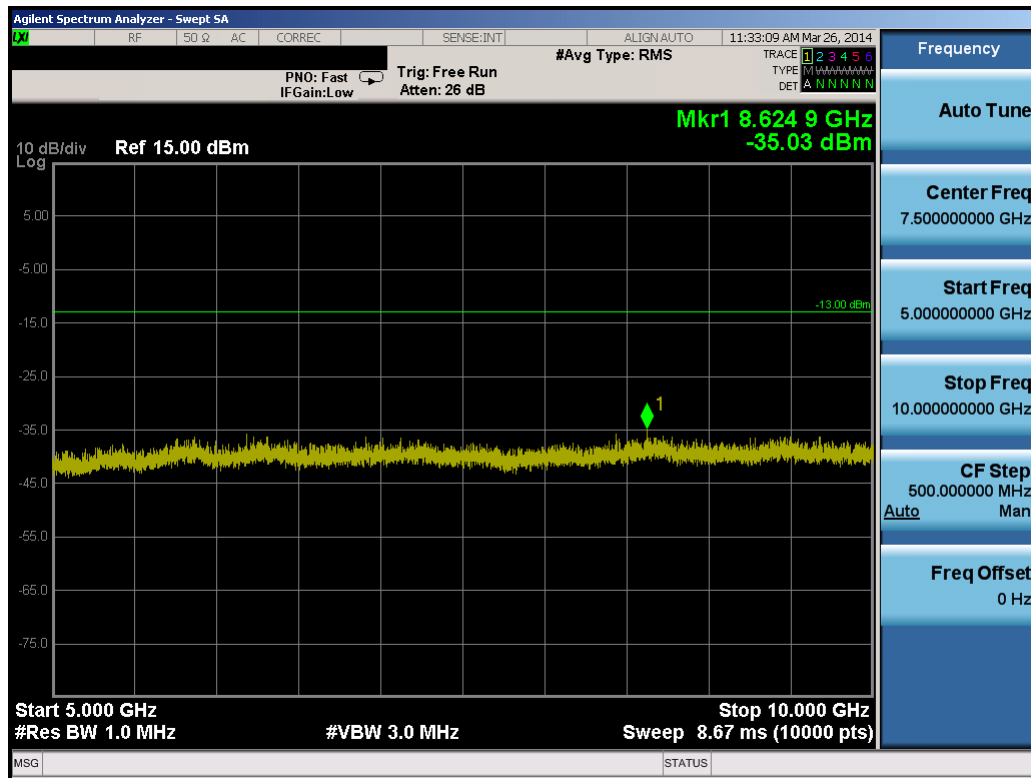
Plot 7-6. Occupied Bandwidth Plot (16QAM, 25RB)

Out-of-Band Spurious Emissions Note: For the following conducted spurious emission plots, all modulations and RB configurations were tested. Worst case emissions were found in 16-QAM modulation, 1RB, and 0 RB Offset operating at 793MHz. Worst case plots are reported below:

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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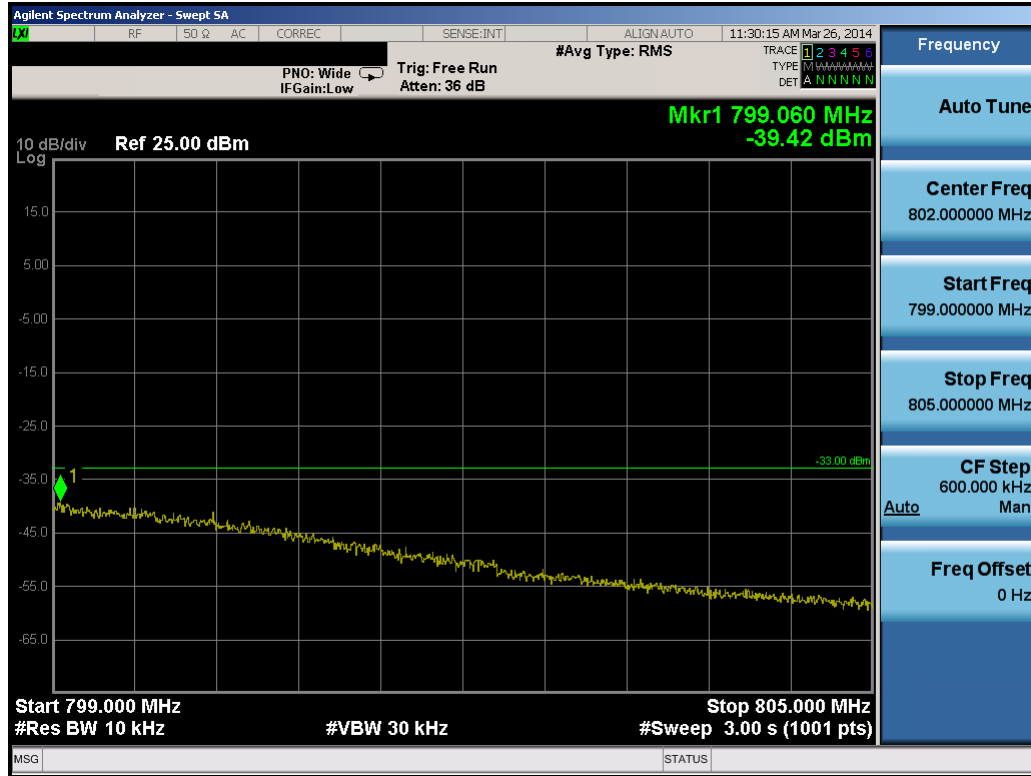


Plot 7-7. Conducted Spurious Plot

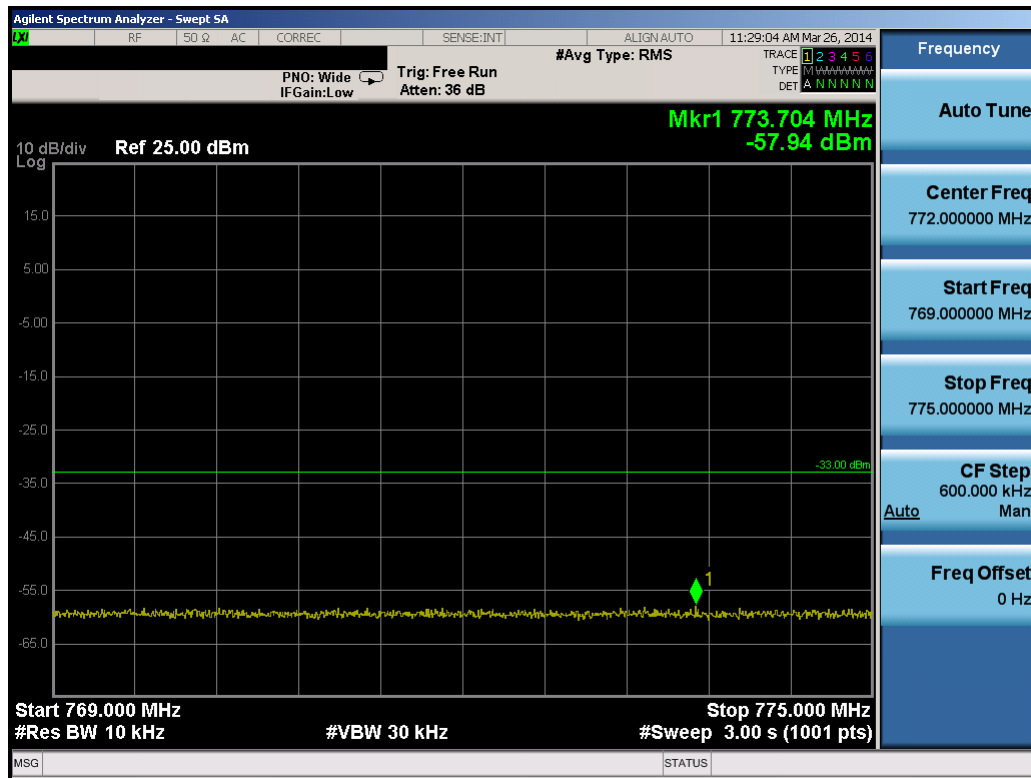


Plot 7-8. Conducted Spurious Plot

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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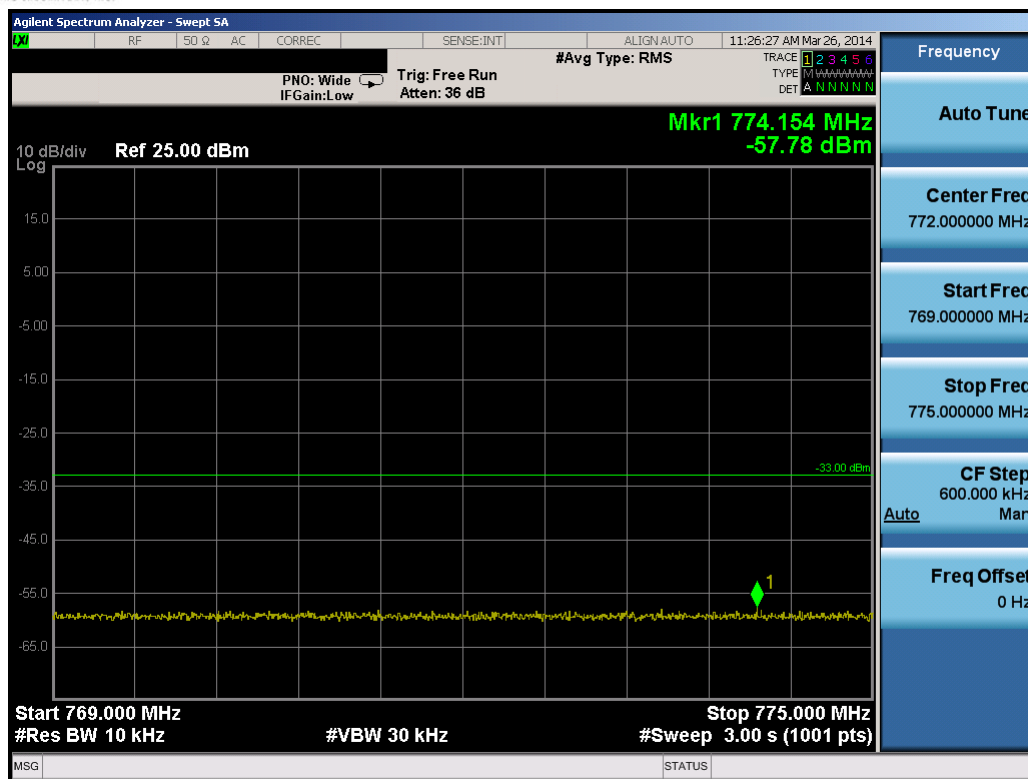


Plot 7-10. Conducted Emissions Mask (799-805 MHz) Plot (16QAM, 25RB, High Channel)



Plot 7-11. Conducted Emissions Mask (769-775 MHz) Plot (QPSK, 25RB, Low Channel)

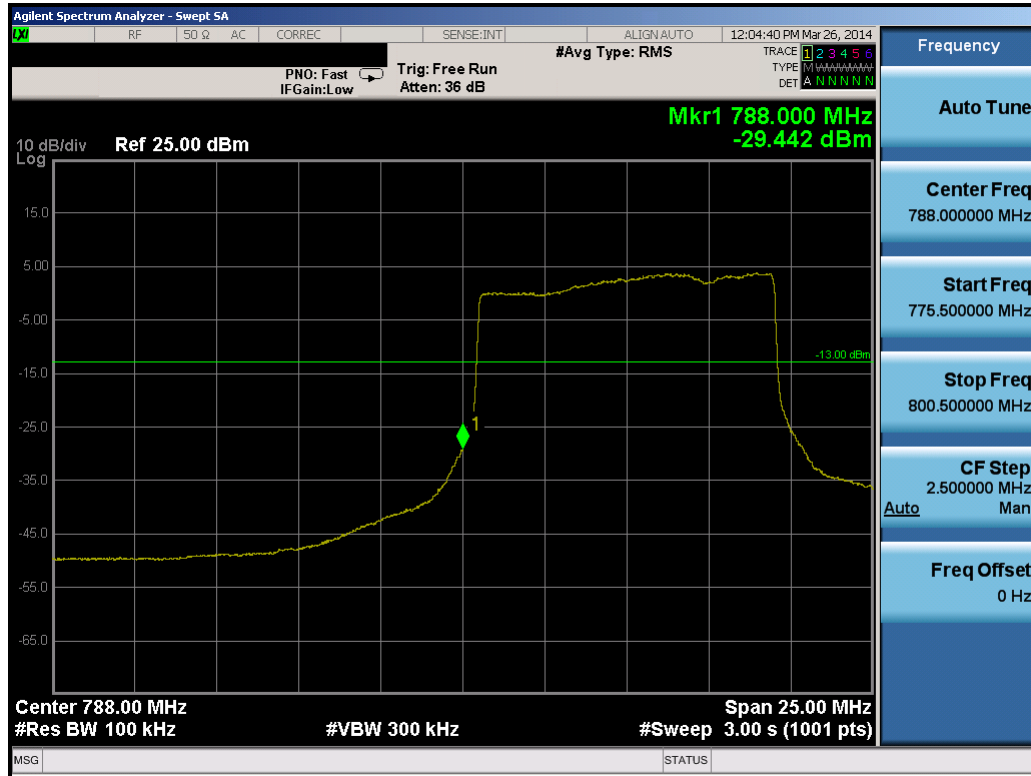
FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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Plot 7-12. Conducted Emissions Mask (769-775 MHz) Plot (16QAM, 25RB, Low Channel)

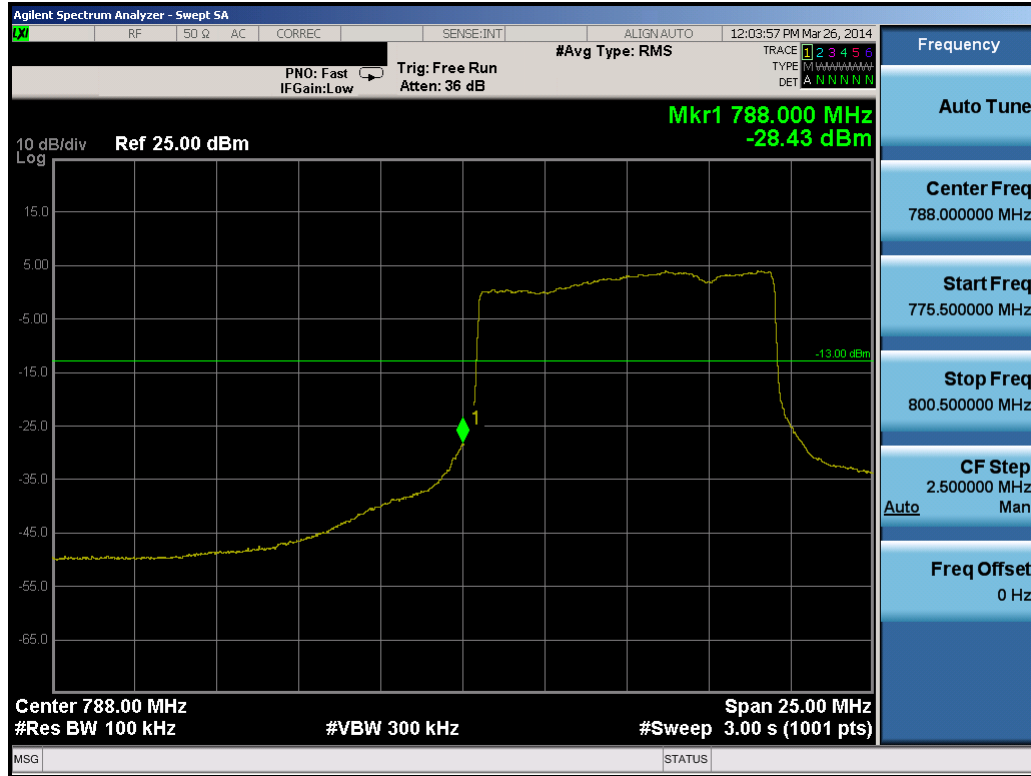
FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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8.0 10MHZ BANDWIDTH - PLOT(S) OF EMISSIONS



Plot 8-1. Lower Band Edge Plot (QPSK, 50RB)

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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Plot 8-2. Lower Band Edge Plot (16QAM, 50RB)

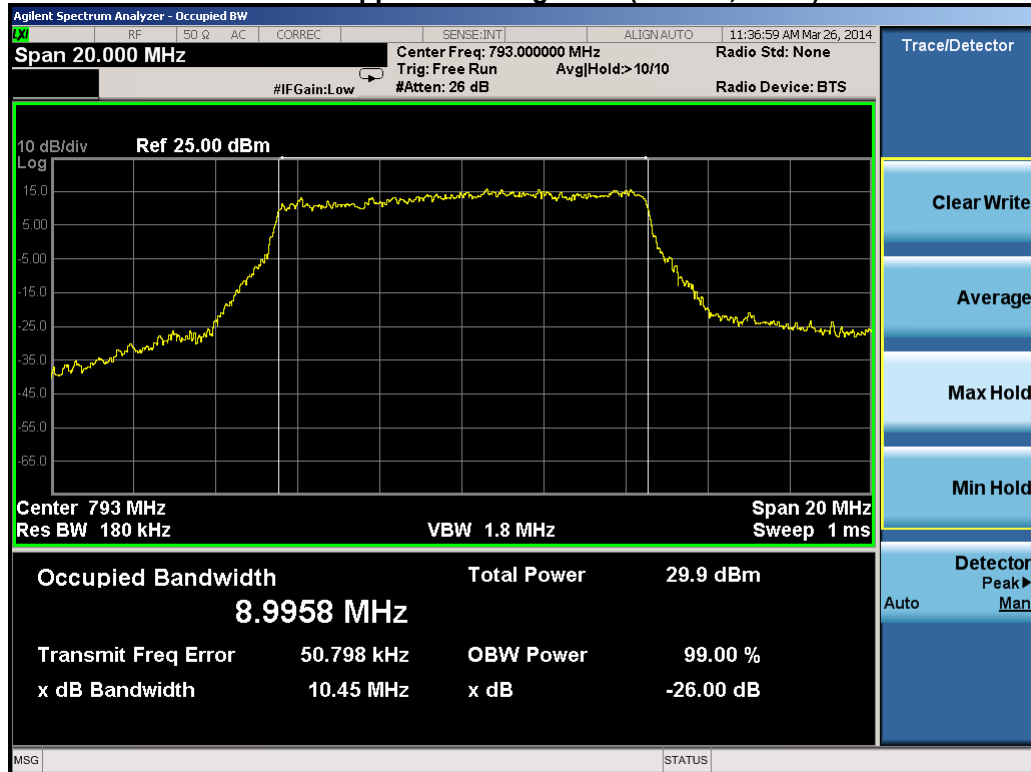


Plot 8-3. Upper Band Edge Plot (QPSK, 50RB)

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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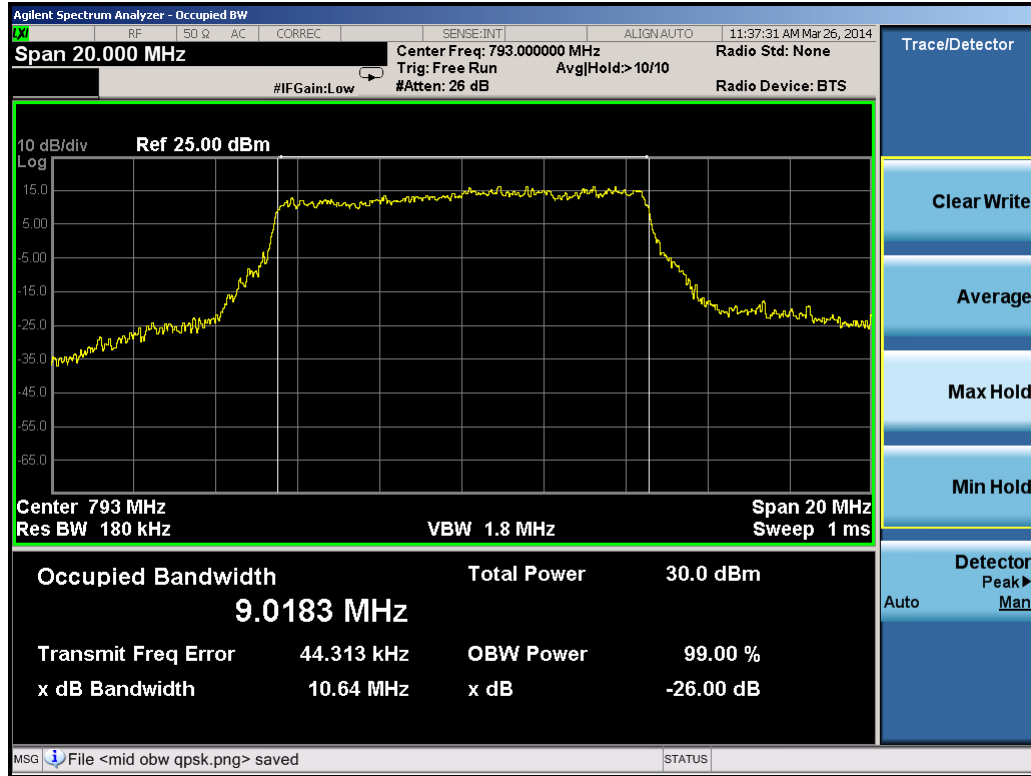


Plot 8-4. Upper Band Edge Plot (16QAM, 50RB)



Plot 8-5. Occupied Bandwidth Plot (QPSK, 50RB)

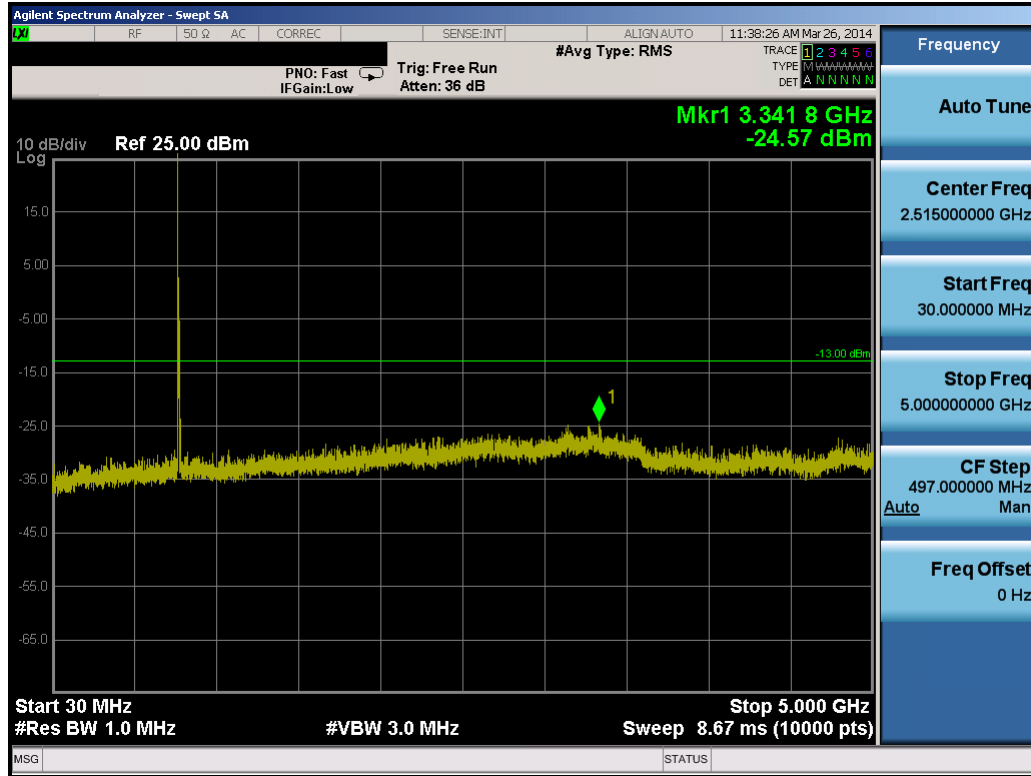
FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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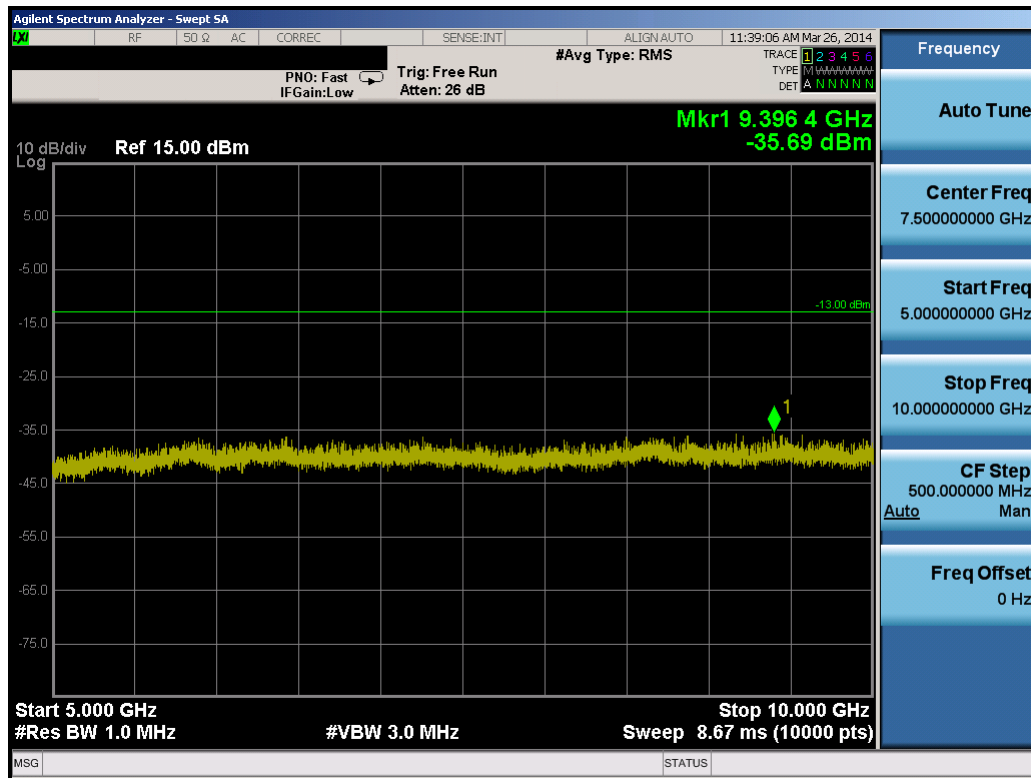
Plot 8-6. Occupied Bandwidth Plot (16QAM, 50RB)

Out-of-Band Spurious Emissions Note: For the following conducted spurious emission plots, all modulations bandwidths, and RB configurations were tested. Worst case emissions were found in 16-QAM modulation, 1RB, and 0 RB Offset. Worst case plots are reported below:

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
Test Report S/N: 0Y1403260627.BV8	Test Dates: 3/25 - 3/28/2014	EUT Type: Wireless Module		Page 32 of 37

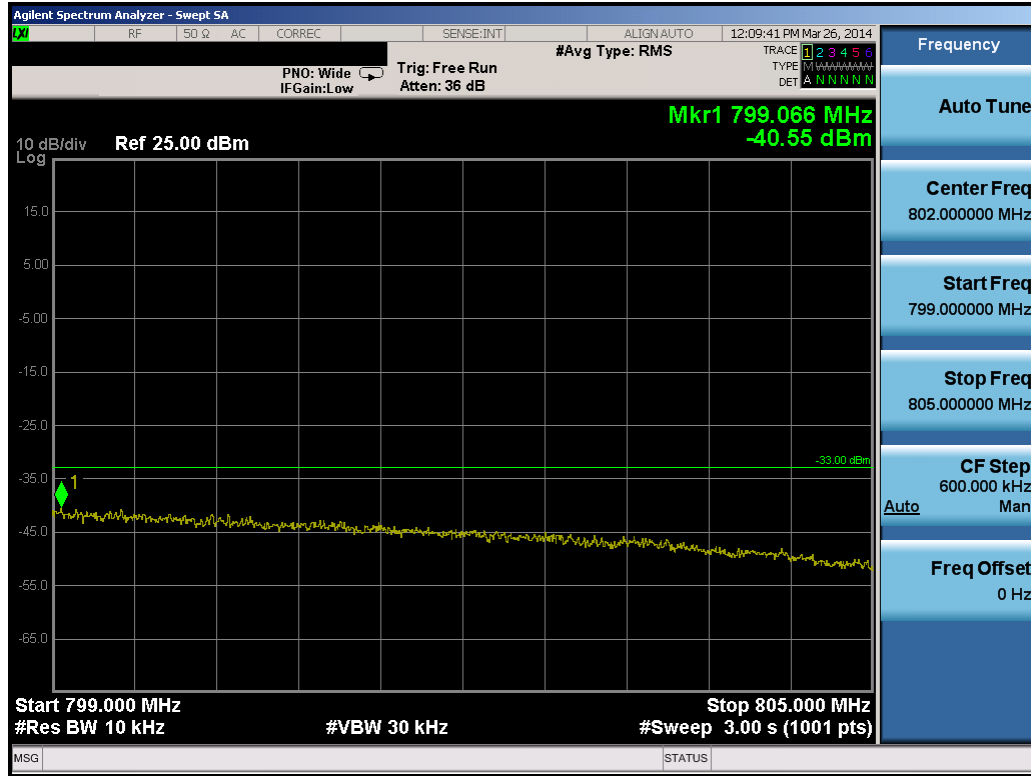


Plot 8-7. Conducted Spurious Plot

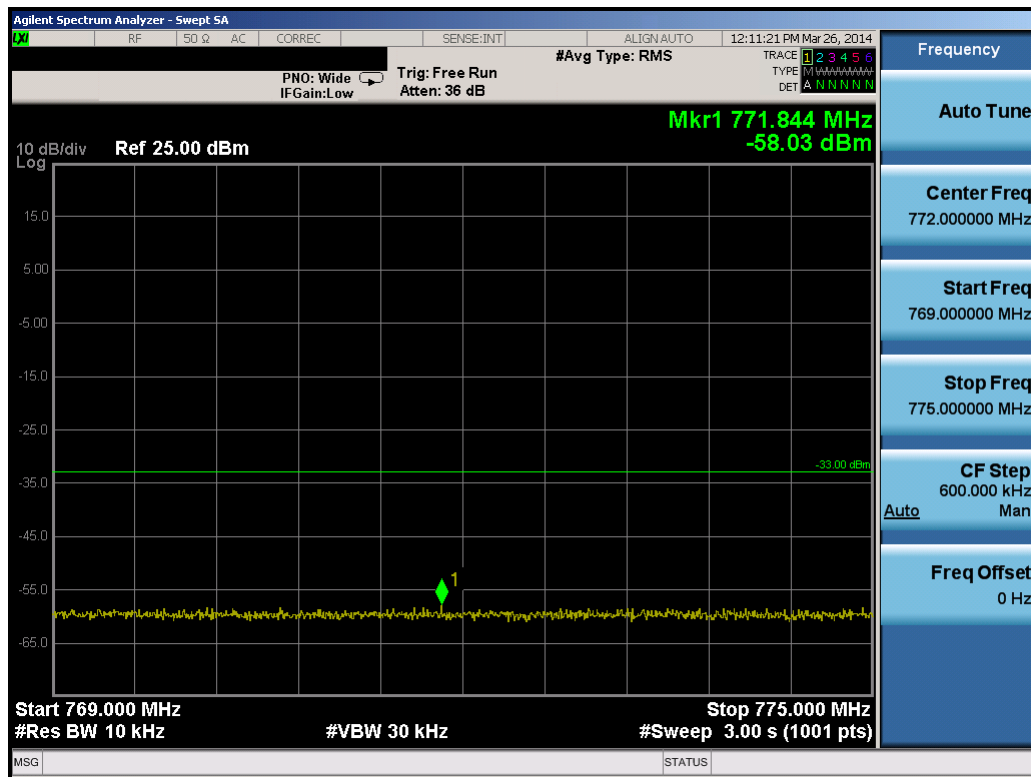


Plot 8-8. Conducted Spurious Plot

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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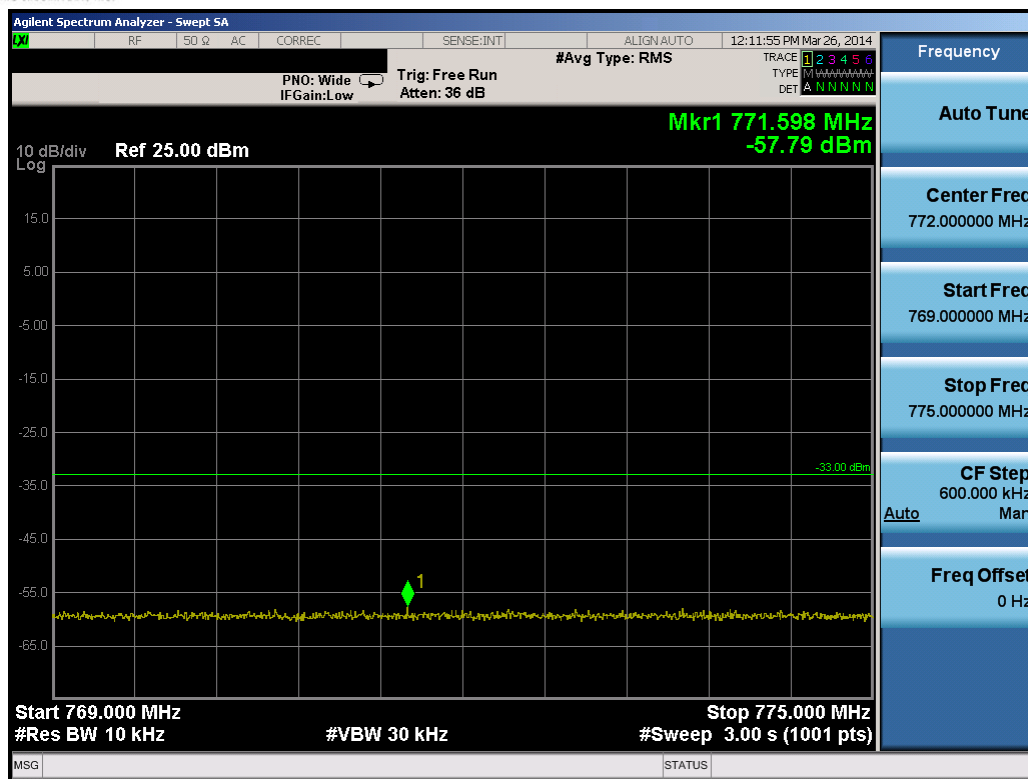


Plot 8-10. Conducted Emissions Mask (799-805 MHz) Plot (16QAM, 50RB)



Plot 8-11. Conducted Emissions Mask (769-775 MHz) Plot (QPSK, 50RB)

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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Plot 8-12. Conducted Emissions Mask (769-775 MHz) Plot (16QAM, 50RB)

FCC ID: BV8BBPBM100	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 90 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	HARRIS	Reviewed by: Quality Manager
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9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Harris Wireless Module FCC ID: BV8BBPBM100** complies with all the requirements of Parts 2 and 90 of the FCC rules.

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Test Report S/N: 0Y1403260627.BV8	Test Dates: 3/25 - 3/28/2014	EUT Type: Wireless Module	Page 37 of 37	