

**MEASUREMENT REPORT**
FCC Part 24 LTE (Band 25)**Applicant Name:**
Motorola Mobility, Inc.
8000 West Sunrise Blvd.
Plantation, FL 33322
United States**Date of Testing:**
5/29/12 - 6/07/12
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0Y1205220713.IHD**FCC ID :** IHDT56NL2
APPLICANT: MOTOROLA MOBILITY, INC.**Application Type:** Certification
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2; §24
EUT Type: Portable Handset
Test Procedure(s): ANSI/TIA-603-C-2004
Test Device Serial No.: identical prototype [S/N: Unit 1, Unit 2]

Mode	BW (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	ERP/EIRP	
					Max. Power (W)	Max. Power (dBm)
LTE Band 25	5	1852.5 - 1912.5	4M49G7D	QPSK	0.332	25.22
LTE Band 25	5	1852.5 - 1912.5	4M50W7D	16-QAM	0.253	24.03
LTE Band 25	10	1852.5 - 1912.5	8M96G7D	QPSK	0.283	24.52
LTE Band 25	10	1852.5 - 1912.5	8M95W7D	16-QAM	0.186	22.71

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.

PCTEST certifies that no party to this application has been subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President

FCC ID: IHDT56NL2	 PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 1 of 36

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

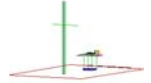
FCC PART 24 MEASUREMENT REPORT	3
1.0 INTRODUCTION	4
1.1 SCOPE	4
1.2 TESTING FACILITY	4
2.0 PRODUCT INFORMATION.....	5
2.1 EQUIPMENT DESCRIPTION	5
2.2 DEVICE CAPABILITIES.....	5
2.3 EMI SUPPRESSION DEVICE(S)/MODIFICATIONS	5
2.4 LABELING REQUIREMENTS.....	5
3.0 DESCRIPTION OF TESTS	6
3.1 EVALUATION PROCEDURE	6
3.2 PCS - BASE FREQUENCY BLOCKS	6
3.3 PCS - MOBILE FREQUENCY BLOCKS.....	6
3.4 OCCUPIED BANDWIDTH	7
3.5 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.....	7
3.6 RADIATED POWER AND RADIATED SPURIOUS EMISSIONS	8
3.7 PEAK-AVERAGE RATIO	9
3.8 FREQUENCY STABILITY / TEMPERATURE VARIATION	9
4.0 TEST EQUIPMENT CALIBRATION DATA	10
5.0 SAMPLE CALCULATIONS	11
6.0 TEST RESULTS.....	12
6.1 SUMMARY.....	12
6.2 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT DATA.....	13
6.3 BAND 25 RADIATED MEASUREMENTS.....	14
6.4 BAND 25 FREQUENCY STABILITY MEASUREMENTS.....	20
7.0 PLOT(S) OF EMISSIONS	22
8.0 CONCLUSION.....	36

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 2 of 36



MEASUREMENT REPORT

FCC Part 24

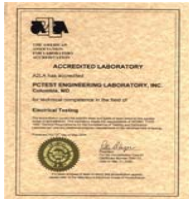


§2.1033 General Information

APPLICANT: Motorola Mobility, Inc.
APPLICANT ADDRESS: 8000 West Sunrise Blvd.
 Plantation, FL 33322, United States
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §24
FCC ID: IHDT56NL2
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: Unit 1, Unit 2 ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: 5/29/12 - 6/07/12
TEST REPORT S/N: 0Y1205220713.IHD

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.
- 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.
- 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.
- 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.

FCC ID: IHDT56NL2	 FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 3 of 36

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 Internt'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 10, 2012.

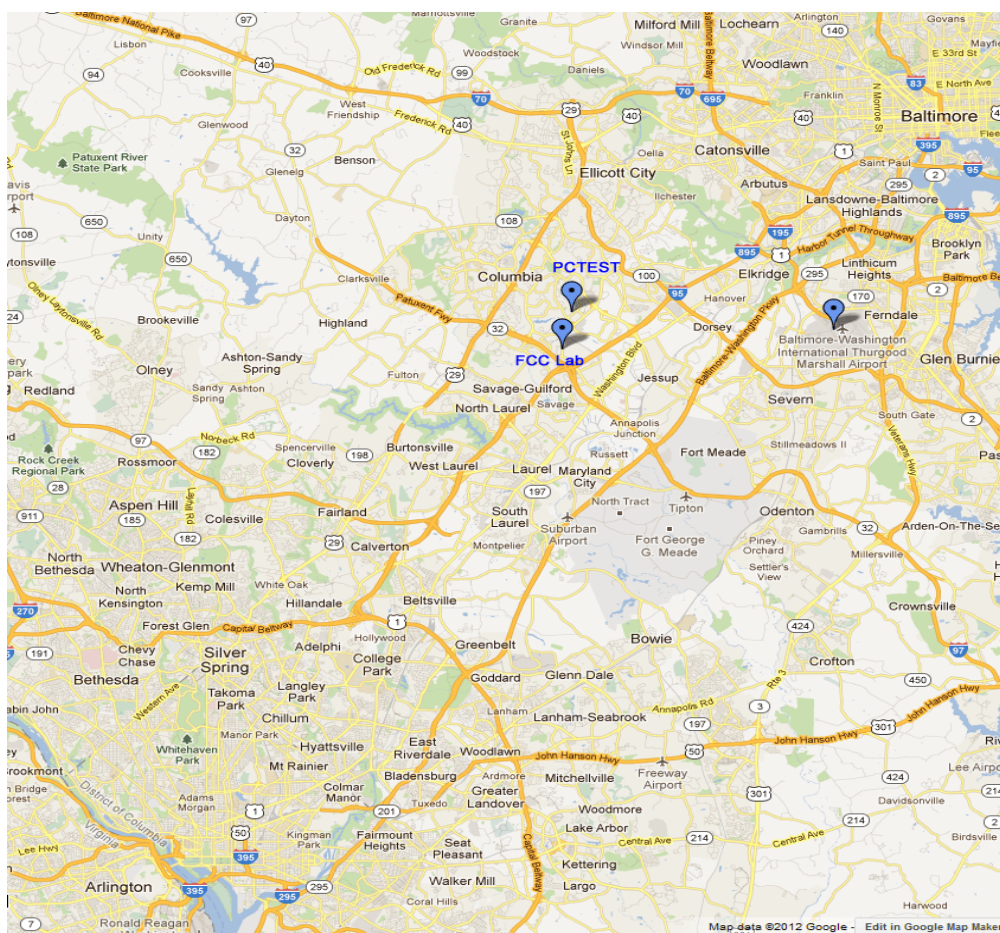


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 4 of 36

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Motorola Portable Handset FCC ID: IHDT56NL2**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function. The EUT consisted of the following component(s):

Trade Name	FCC ID	Description
Motorola	IHDT56NL2	Portable Handset

Table 2-1. EUT Equipment Description

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO Rev 0/A (BC0, BC1, BC10), Band 25 LTE (5, 10 MHz), 802.11b/g/n WLAN, Bluetooth(1x,EDR, LE), NFC

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.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 5 of 36

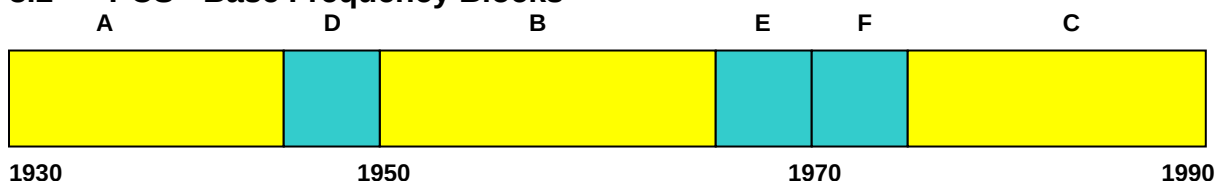
3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-C-2004) was used in the measurement of the measurement of the **Motorola Portable Handset FCC ID: IHDT56NL2**.

Deviation from Measurement Procedure.....None

3.2 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

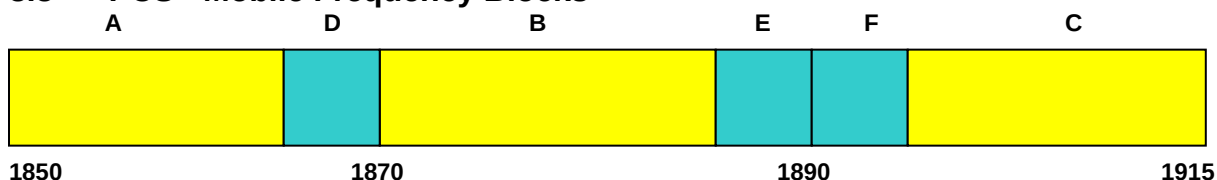
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

3.3 PCS - Mobile Frequency Blocks



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 5: 1890 – 1895 MHz (F)

BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 6: 1895 – 1915 MHz (C)

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 6 of 36

3.4 Occupied Bandwidth

§2.1049, RSS-Gen (4.6.1)

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. The internal occupied bandwidth function of the spectrum analyzer was used to obtain a measurement.

3.5 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, 24.238(a)(b); RSS-132 (4.5.1), RSS-133 (6.5.1)

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. 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.

FCC ID: IHDT56NL2			FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 7 of 36		

3.6 Radiated Power and Radiated Spurious Emissions

24.232(c), 24.238(a), , RSS-133 (6.5.1)

Radiated spurious emissions are investigated indoors in a semi-anechoic chamber to determine the frequencies producing the worst case emissions. Final measurements for radiated power and radiated spurious emissions are performed on the 3 meter OATS per the guidelines of ANSI/TIA-603-C-2004. The measurement area is situated on an 18 meter x 20 meter galvanized 1/2" hardware cloth as the conducting ground plane. This material is sewn together in sections 4 feet wide and 60 feet long. A total of eighteen sections are required to cover the entire measurement area. Sections are laid across the width of the pad, overlapped 1" and sewn and soldered together at intervals of 3" (7.6 cm.) The terrain of the test site is reasonably flat and level. Power and cable to the test site are buried 18" deep into the ground outside the perimeter of the site. An all-weather non-metallic housing is situated on a 2 x 3 meter area adjacent to the measurement area to house the test equipment. The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. 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. Emissions are also investigated with the receive antenna horizontally and vertically polarized. The level of the maximized emission is recorded with the spectrum analyzer using a peak detector with RBW = 1MHz, VBW = 3MHz for emissions greater than 1GHz. For emissions below 1GHz, the spectrum analyzer is set to RBW = 100kHz and VBW = 300kHz.

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 $43 + 10\log_{10}(\text{Power [Watts]})$ specified in 22.917(a) and 24.238(a).

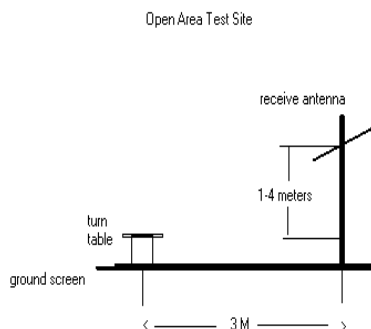


Figure 3-1. Diagram of 3-meter outdoor test range

FCC ID: IHDT56NL2	 FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 8 of 36

3.7 Peak-Average Ratio

§24.232(d), RSS-133 (6.4)

A peak to average ratio measurement is performed at the conducted port of the EUT. For LTE signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

3.8 Frequency Stability / Temperature Variation

§2.1055, 24.235, , RSS-133 (6.3)

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-C-2004. 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. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 fifteen minutes 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 sufficient stabilization period at each temperature shall be used prior to each frequency requirement.

FCC ID: IHDT56NL2			FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 9 of 36		

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
-	RE2	Radiated Emissions Cable Set (VHF/UHF)	2/13/2012	Annual	2/13/2013	N/A
-	LTx2	Licensed Transmitter Cable Set	2/17/2012	Annual	2/17/2013	N/A
Agilent	8447D	Broadband Amplifier	5/8/2012	Annual	5/8/2013	1937A03348
Agilent	E8267C	Vector Signal Generator	10/10/2011	Biennial	10/10/2013	US42340152
Agilent	N9020A	MXA Signal Analyzer	10/10/2011	Annual	10/10/2012	US46470561
Anritsu	MA2411B	Power Sensor	3/5/2012	Annual	3/5/2013	846215
Anritsu	ML2495A	Power Meter	10/13/2011	Annual	10/13/2012	1039008
Espec	ESX-2CA	Environmental Chamber	6/21/2011	Annual	6/21/2012	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	7/22/2011	Annual	7/22/2012	125518
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	10/1/2010	Biennial	10/1/2012	128337
Mini-Circuits	VHF-3100+	High Pass Filter	1/15/2012	Annual	1/15/2013	30841
Rohde & Schwarz	RS-PR18	1-18 GHz Pre-Amplifier	6/9/2011	Annual	6/9/2012	100071
Rohde & Schwarz	ESU26	EMI Test Receiver	12/15/2011	Annual	12/15/2012	100342
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	N/A		N/A	102060
Seekonk	NC-100	Torque Wrench (8" lb)	3/5/2012	Triennial	3/5/2015	N/A
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/26/2012	Biennial	1/26/2014	A051107

Table 4-1. Test Equipment

FCC ID: IHDT56NL2	 FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION) 			Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 10 of 36	

5.0 SAMPLE CALCULATIONS

Emission Designator

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 Band

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 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: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 11 of 36

6.0 TEST RESULTS

6.1 Summary

Company Name: Motorola Mobility, Inc.
 FCC ID: IHDT56NL2
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)					
2.1049, 24.238(a)	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 7.0
2.1051, 24.238(a)	Band Edge / Conducted Spurious Emissions	$< 43 + 10\log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions		PASS	Section 7.0
24.232(d)	Peak-Average Ratio	$< 13 \text{ dB}$		PASS	Section 7.0
2.1046	Transmitter Conducted Output Power	N/A		PASS	See RF Exposure Report
24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	$< 2 \text{ Watts max. EIRP}$	RADIATED	PASS	Section 6.2
2.1053, 24.238(a)	Undesirable Emissions	$< 43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions		PASS	Section 6.3
2.1055, 24.235	Frequency Stability	$< 2.5 \text{ ppm}$		PASS	Section 6.4

Table 6-1. Summary of Test Results

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Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 12 of 36		

6.2 Equivalent Isotropic Radiated Power Output Data

§24.232(c)

	Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBi]	Pol [H/V]	EIRP [dBm]	EIRP [Watts]	Battery
Band 25 LTE	1852.50	5	QPSK	25/0	-16.94	16.66	8.56	H	25.22	0.332	Standard
	1882.50	5	QPSK	25/0	-17.62	15.98	8.55	H	24.53	0.283	Standard
	1912.50	5	QPSK	25/0	-17.94	15.66	8.53	H	24.19	0.263	Standard
	1852.50	5	16-QAM	25/0	-18.13	15.47	8.56	H	24.03	0.253	Standard
	1882.50	5	16-QAM	25/0	-18.72	14.88	8.55	H	23.43	0.220	Standard
	1912.50	5	16-QAM	25/0	-19.05	14.55	8.53	H	23.08	0.203	Standard
	1855.00	10	QPSK	50/0	-18.63	14.97	8.56	H	23.53	0.225	Standard
	1882.50	10	QPSK	50/0	-19.59	14.01	8.55	H	22.56	0.180	Standard
	1910.00	10	QPSK	1/0	-17.61	15.99	8.53	H	24.52	0.283	Standard
	1855.00	10	16-QAM	50/0	-19.45	14.15	8.56	H	22.71	0.186	Standard
	1882.50	10	16-QAM	50/0	-20.48	13.12	8.55	H	21.67	0.147	Standard
	1910.00	10	16-QAM	1/0	-18.53	15.07	8.53	H	23.60	0.229	Standard

Table 6-2. Equivalent Isotropic Radiated Power Output Data (Band 25)

NOTES:

Equivalent Isotropic Radiated Power 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 Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This level is recorded using the power meter. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

The EUT was tested in three orthogonal planes and in all possible test configurations, resource block configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

FCC ID: IHDT56NL2	 FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION) 			Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 13 of 36

6.3 Band 25 Radiated Measurements

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1852.50 MHz
 MEASURED OUTPUT POWER: 21.26 dBm = 0.134 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.26 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3705.00	-54.90	8.40	-46.50	H	67.8
5557.50	-58.93	10.62	-48.31	H	69.6
7410.00	-92.77	11.83	-80.94	H	102.2
9262.50	-92.37	13.29	-79.08	H	100.3

Table 6-3. Radiated Spurious Data (Band 25 LTE – Low Channel)

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 device was tested under all modulations and channel bandwidth configurations and the worst case spurious emissions are reported in this channel with the EUT employing 1RB (with offset 0) and QPSK modulation. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 14 of 36

Band 25 Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1882.50 MHz
 MEASURED OUTPUT POWER: 20.81 dBm = 0.120 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.81 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3765.00	-56.20	8.44	-47.76	H	68.6
5647.50	-58.42	10.66	-47.76	H	68.6
7530.00	-92.77	11.94	-80.83	H	101.6
9412.50	-92.15	13.23	-78.92	H	99.7

Table 6-4. Radiated Spurious Data (Band 25 LTE – Mid Channel)

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 device was tested under all modulations and channel bandwidth configurations and the worst case spurious emissions are reported in this channel with the EUT employing 1RB (with offset 24) and QPSK modulation. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 15 of 36

Band 25 Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1912.50 MHz
 MEASURED OUTPUT POWER: 20.73 dBm = 0.118 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.73 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3825.00	-54.91	8.58	-46.32	H	67.0
5737.50	-58.52	10.70	-47.83	H	68.6
7650.00	-92.73	12.08	-80.65	H	101.4
9562.50	-91.80	13.20	-78.60	H	99.3

Table 6-5. Radiated Spurious Data (Band 25 LTE – High Channel)

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 device was tested under all modulations and channel bandwidth configurations and the worst case spurious emissions are reported in this channel with the EUT employing 1RB (with offset 24) and QPSK modulation. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 16 of 36

Band 25 Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1855.00 MHz
 MEASURED OUTPUT POWER: 23.53 dBm = 0.225 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 36.53 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3710.00	-62.65	8.40	-54.25	H	77.8
5565.00	-68.82	10.62	-58.20	H	81.7
7420.00	-92.77	11.83	-80.94	H	104.5
9275.00	-92.37	13.29	-79.08	H	102.6

Table 6-6. Radiated Spurious Data (Band 25 LTE – Low Channel)

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 device was tested under all modulations and channel bandwidth configurations and the worst case spurious emissions are reported in this channel with the EUT employing 1RB (with offset 24) and QPSK modulation. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 17 of 36

Band 25 Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1882.50 MHz
 MEASURED OUTPUT POWER: 22.56 dBm = 0.180 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 35.56 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3765.00	-64.07	8.44	-55.63	H	78.2
5647.50	-68.79	10.66	-58.13	H	80.7
7530.00	-92.77	11.94	-80.83	H	103.4
9412.50	-92.15	13.23	-78.92	H	101.5

Table 6-7. Radiated Spurious Data (Band 25 LTE – Mid Channel)

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 device was tested under all modulations and channel bandwidth configurations and the worst case spurious emissions are reported in this channel with the EUT employing 1RB (with offset 24) and QPSK modulation. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 18 of 36

Band 25 Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1910.00 MHz
 MEASURED OUTPUT POWER: 24.52 dBm = 0.283 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 37.52 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3820.00	-64.27	8.58	-55.68	H	80.2
5730.00	-68.78	10.70	-58.09	H	82.6
7640.00	-92.73	12.08	-80.65	H	105.2
9550.00	-91.80	13.20	-78.60	H	103.1

Table 6-8. Radiated Spurious Data (Band 25 LTE – High Channel)

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 device was tested under all modulations and channel bandwidth configurations and the worst case spurious emissions are reported in this channel with the EUT employing 1RB (with offset 24) and QPSK modulation. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 19 of 36

6.4 Band 25 Frequency Stability Measurements

§2.1055, 24.235

OPERATING FREQUENCY: 1,882,500,000 Hz

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	1,882,499,986	-14	-0.0000008
100 %		- 30	1,882,499,986	-14	-0.0000007
100 %		- 20	1,882,499,988	-12	-0.0000006
100 %		- 10	1,882,499,996	-4	-0.0000002
100 %		0	1,882,499,981	-19	-0.0000010
100 %		+ 10	1,882,499,984	-16	-0.0000009
100 %		+ 20	1,882,499,997	-3	-0.0000002
100 %		+ 30	1,882,499,997	-3	-0.0000001
100 %		+ 40	1,882,499,981	-19	-0.0000010
100 %		+ 50	1,882,499,999	-1	-0.0000001
115 %	4.26	+ 20	1,882,499,980	-20	-0.0000010
BATT. ENDPOINT	3.40	+ 20	1,882,499,988	-12	-0.0000007

Table 6-6. Frequency Stability Data (Band 25 LTE – Mid Channel)

Note:

Carrier frequency stability measurements performed according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004

FCC ID: IHDT56NL2	 FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION) 			Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 20 of 36

Band 25 Frequency Stability Measurements (Cont'd)

§2.1055, 24.235

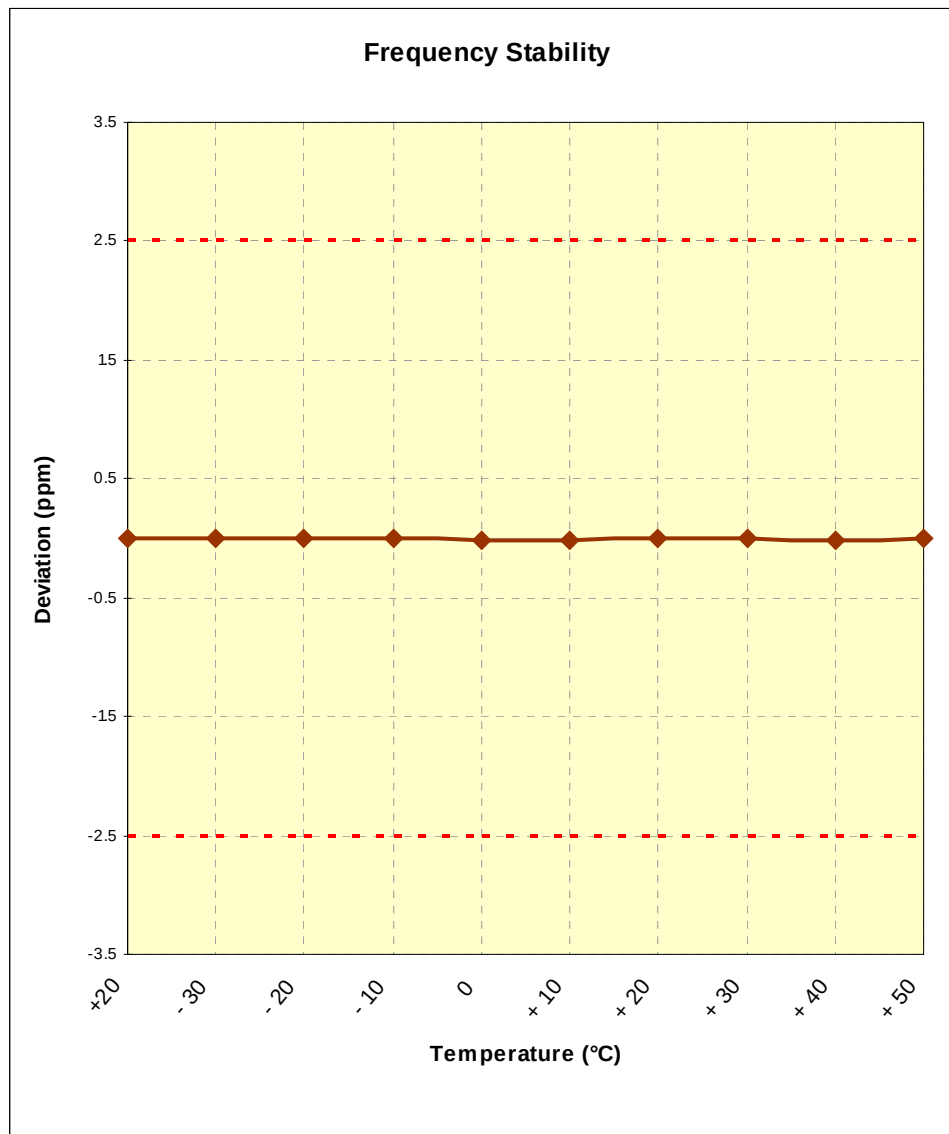


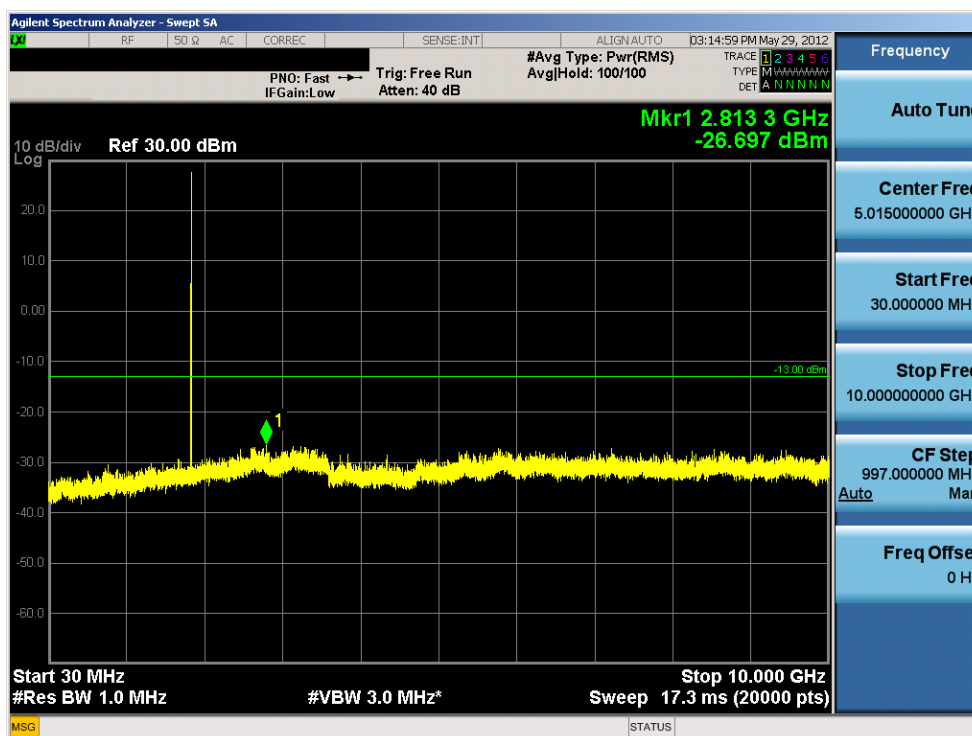
Figure 6-4. Frequency Stability Graph (Band 25 LTE – Mid Channel)

Note:

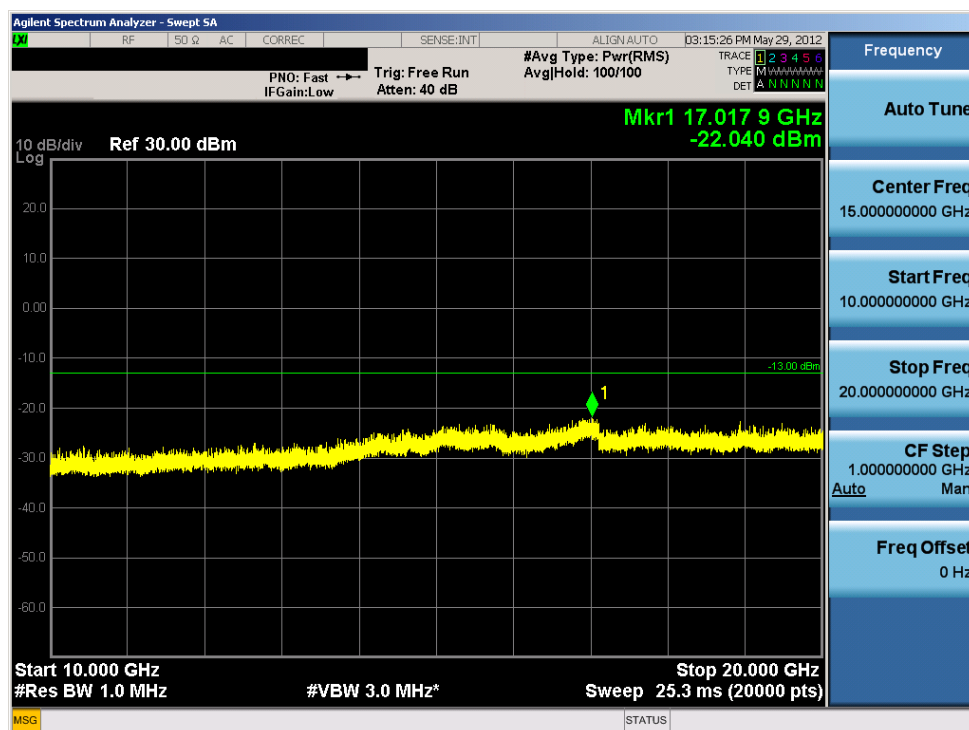
Carrier frequency stability measurements performed according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	 Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 21 of 36

7.0 PLOT(S) OF EMISSIONS

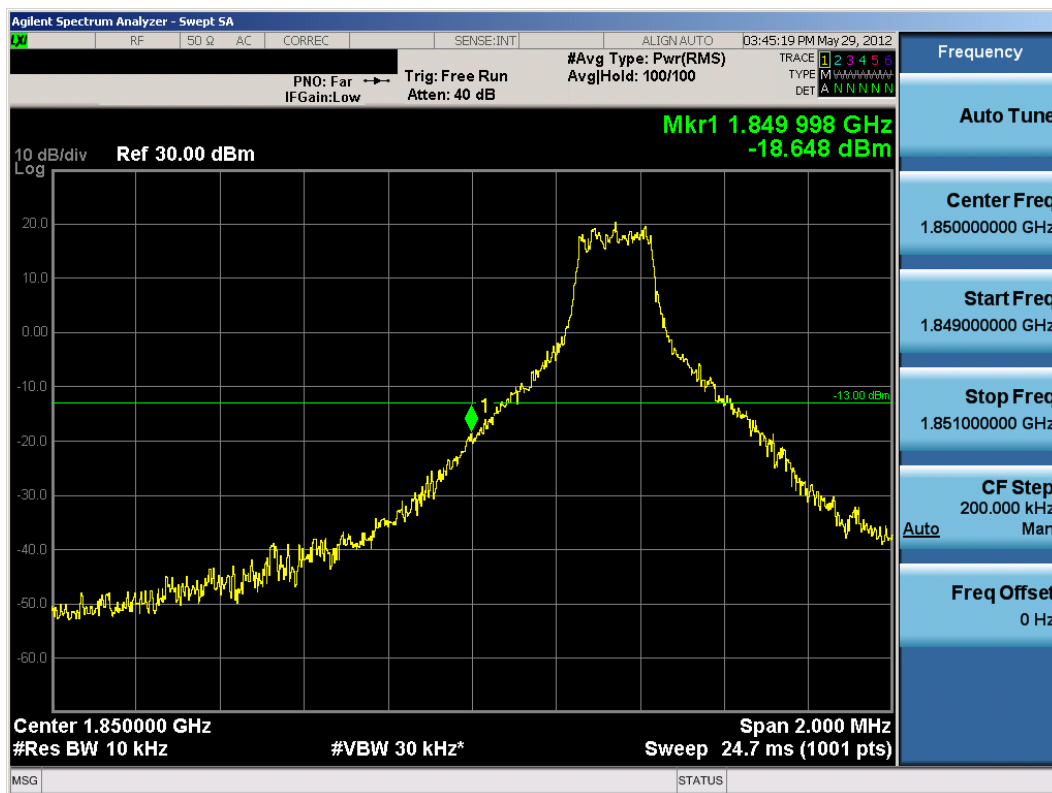


Plot 7-2. Conducted Spurious Plot (5MHz BW, QPSK, RB Size = 1, Offset = 0)

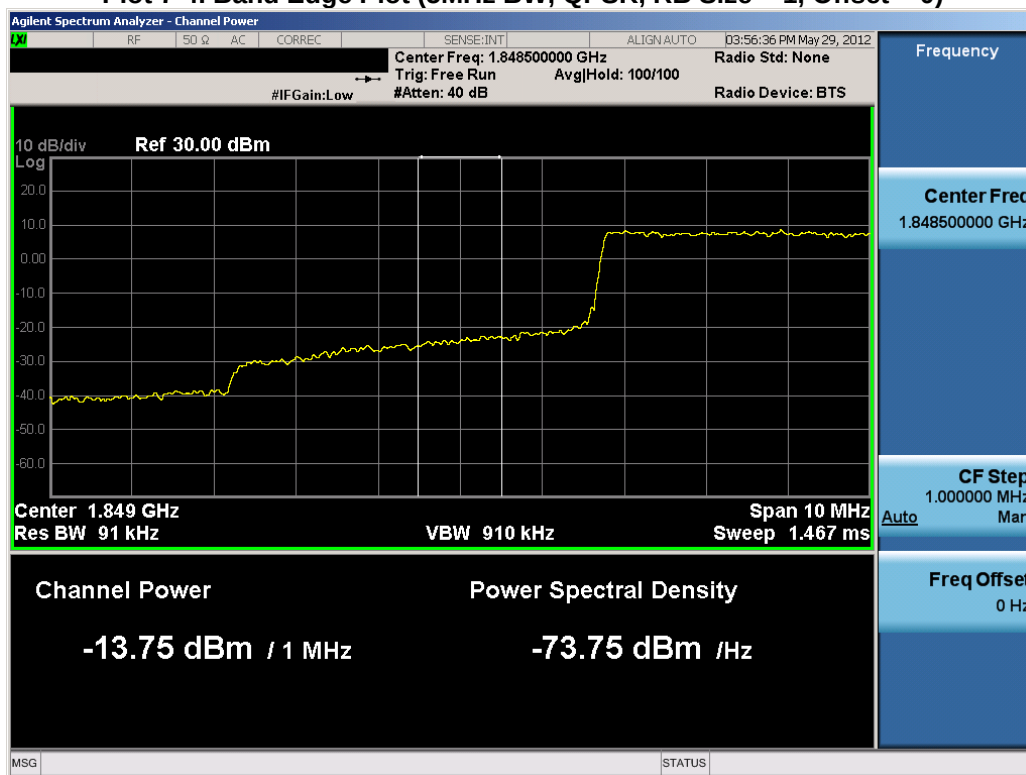


Plot 7-3. Conducted Spurious Plot (5MHz BW, QPSK, RB Size = 1, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 22 of 36

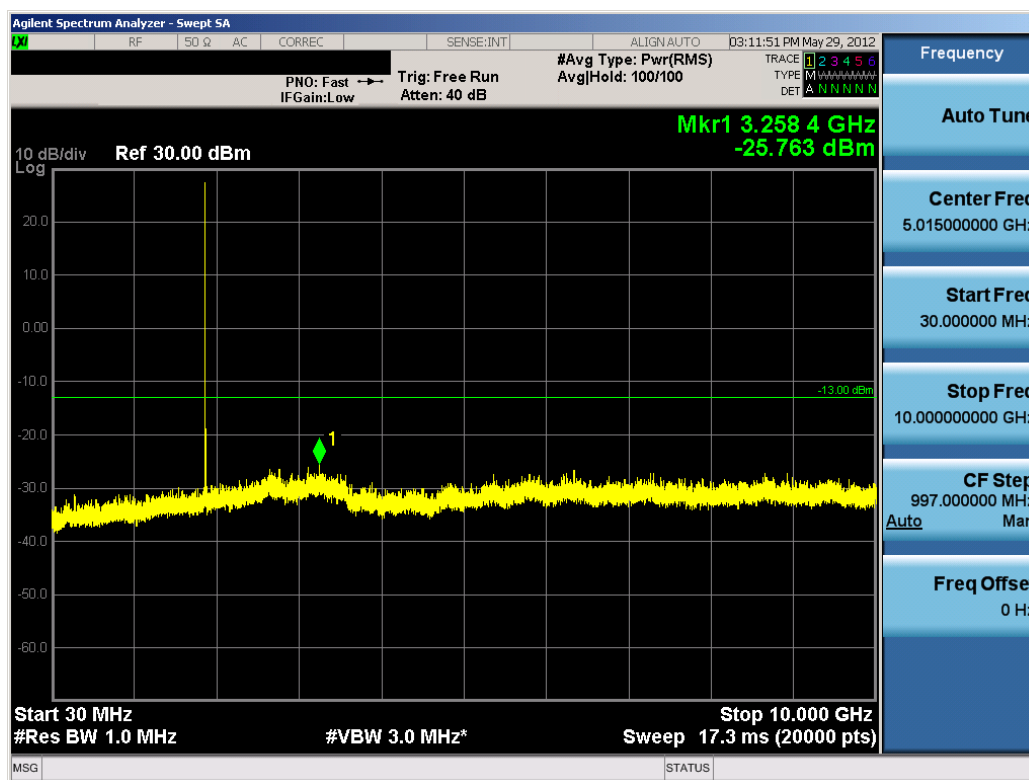


Plot 7-4. Band Edge Plot (5MHz BW, QPSK, RB Size = 1, Offset = 0)

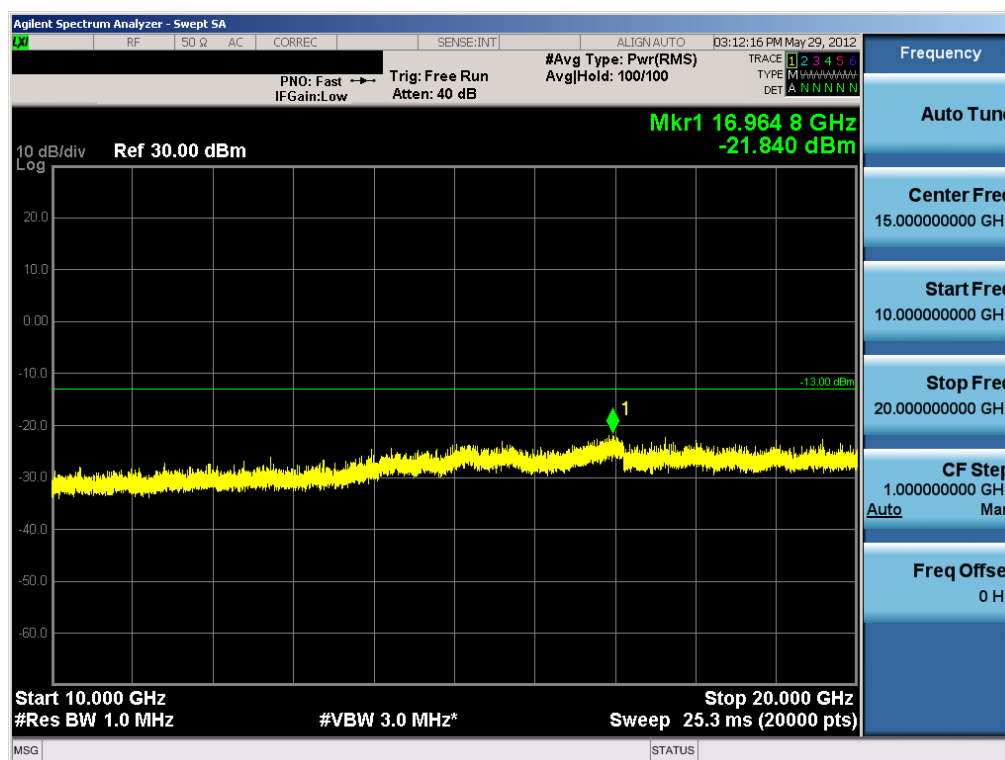


Plot 7-5. Extended Band Edge Plot (5MHz BW, QPSK, RB Size = 25, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 23 of 36

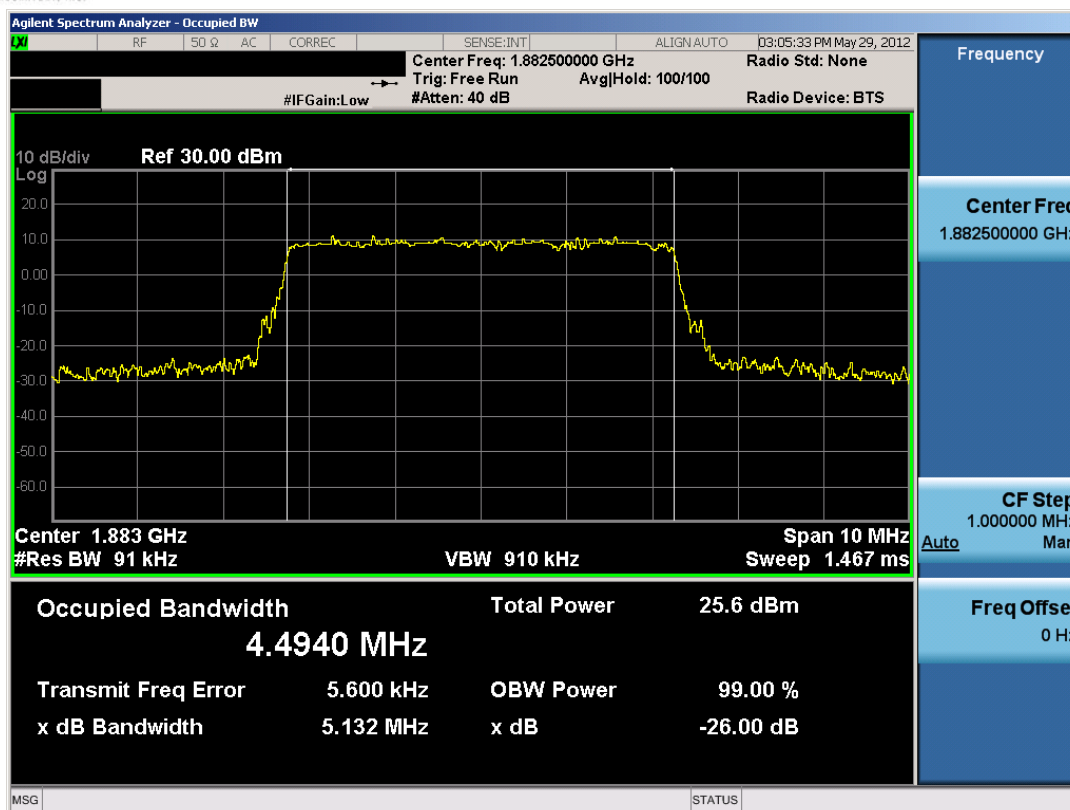


Plot 7-6. Conducted Spurious Plot (5MHz BW, QPSK, RB Size = 1, Offset = 0)

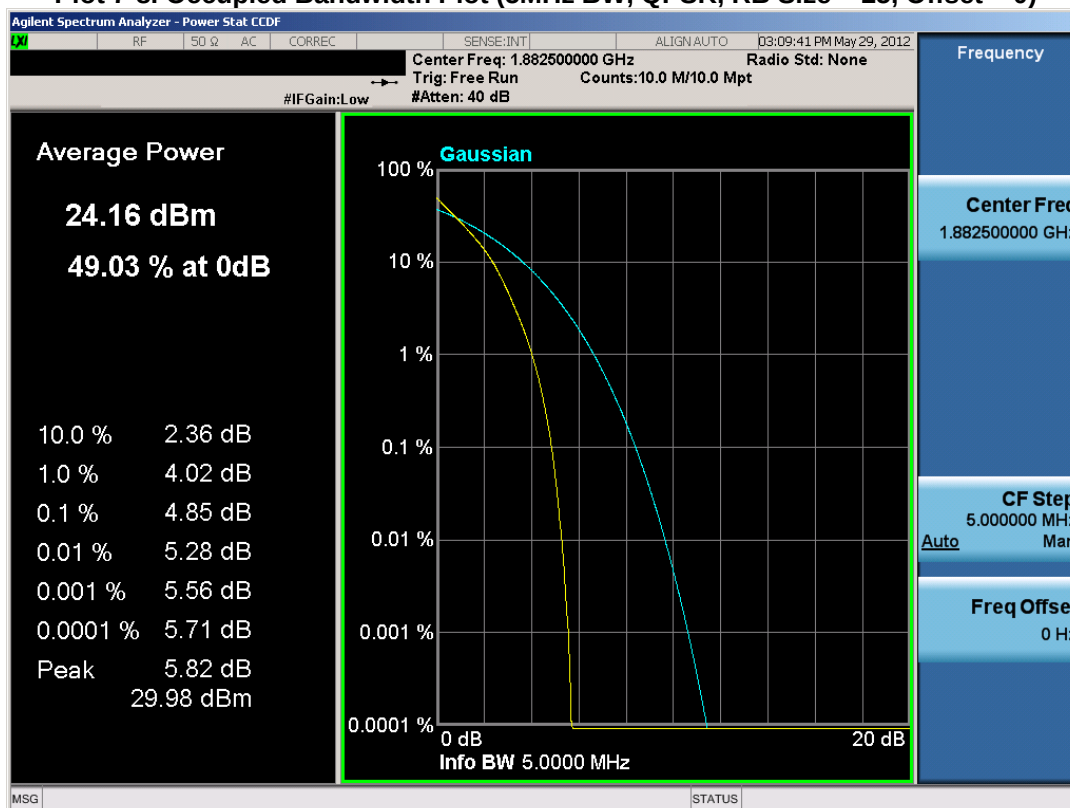


Plot 7-7. Conducted Spurious Plot (5MHz BW, QPSK, RB Size = 1, Offset = 0)

FCC ID: IHDT56NL2			FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset			Page 24 of 36

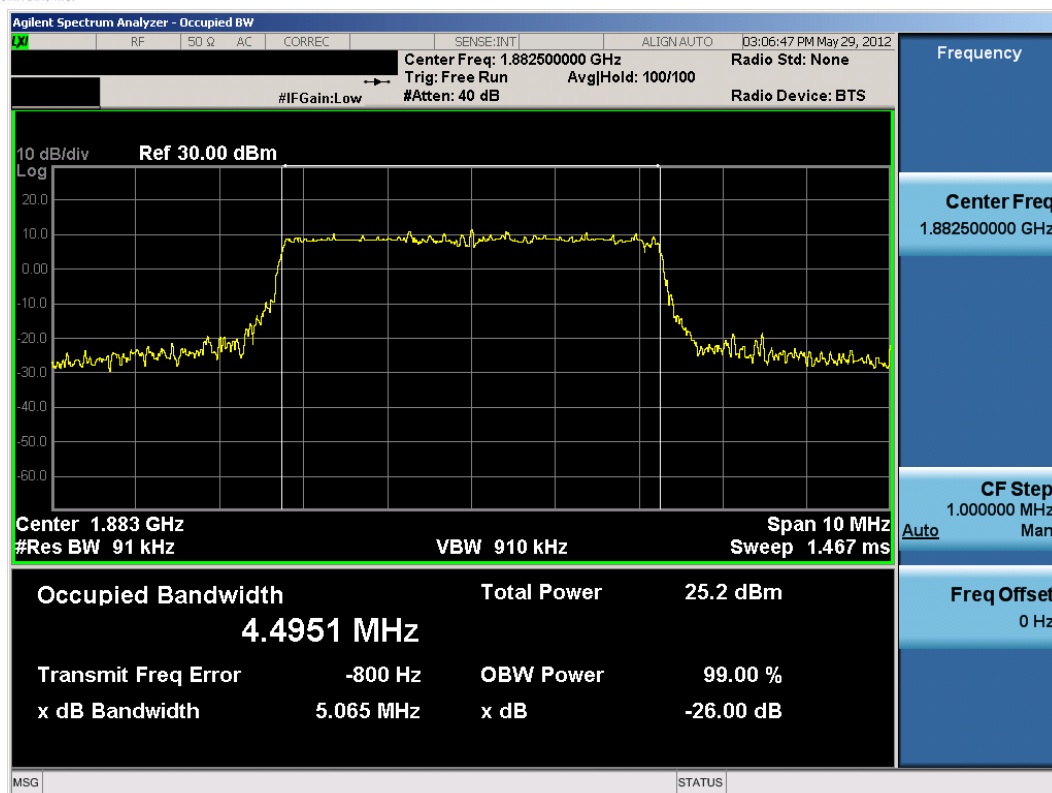


Plot 7-8. Occupied Bandwidth Plot (5MHz BW, QPSK, RB Size = 25, Offset = 0)

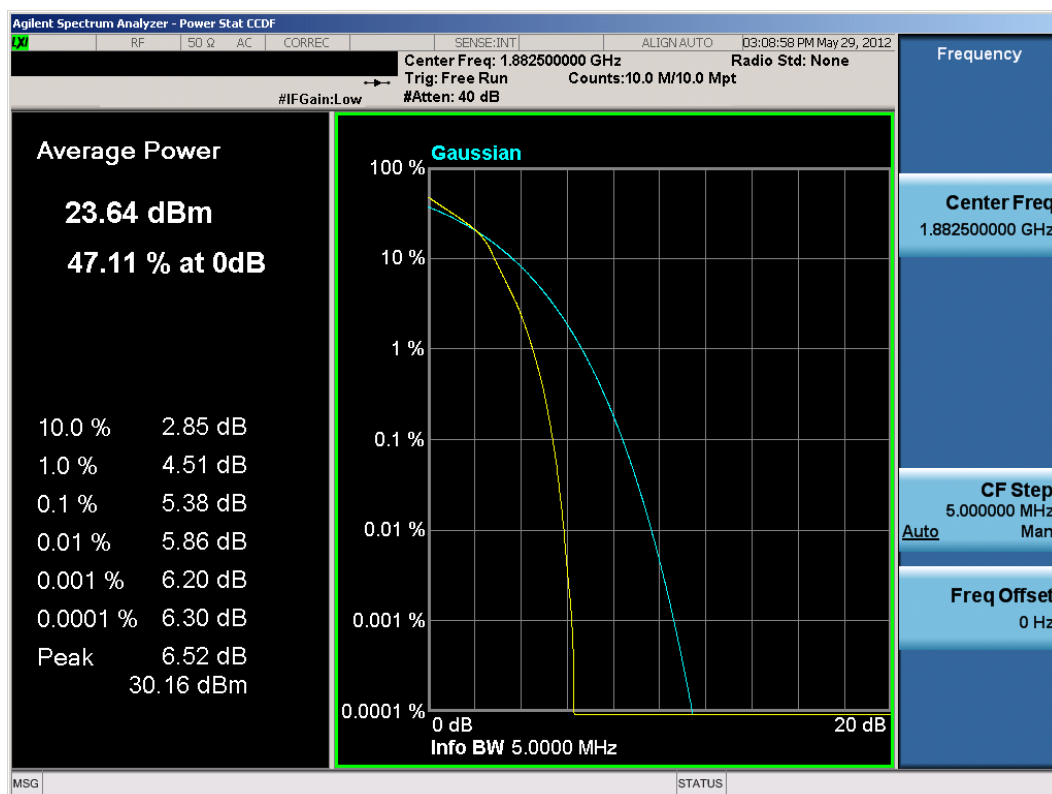


Plot 7-9. Peak-Average Ratio Plot (5MHz BW, QPSK, RB Size = 25, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 25 of 36

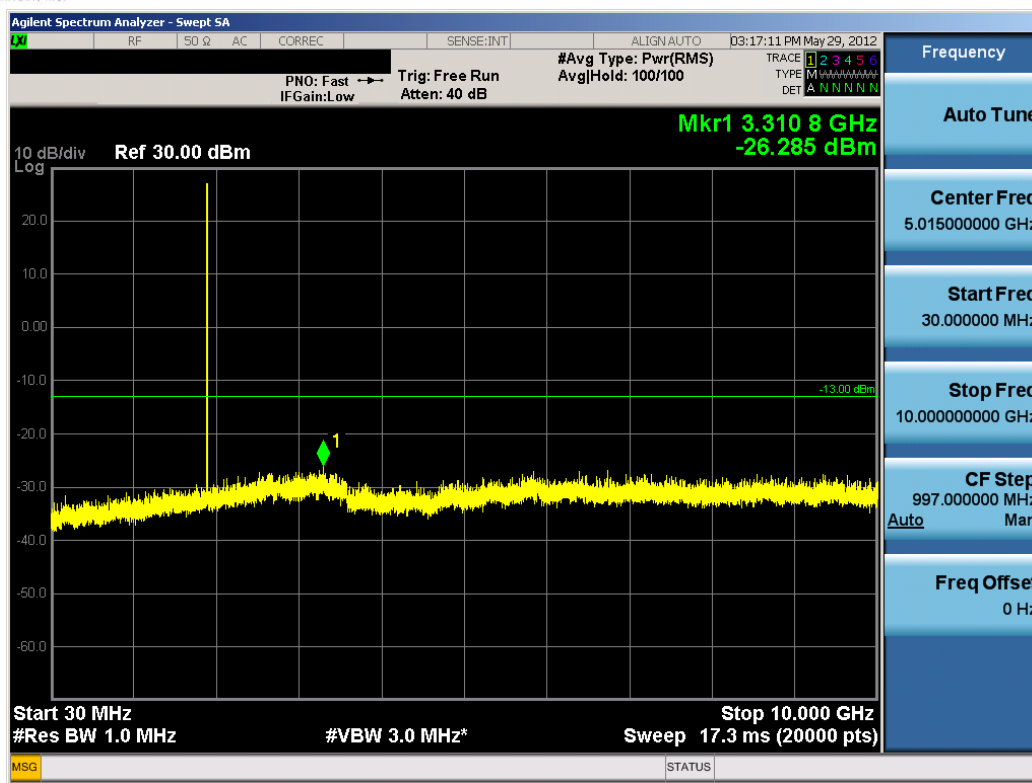


Plot 7-10. Occupied Bandwidth Plot (5MHz BW, 16-QAM, RB Size = 25, Offset = 0)

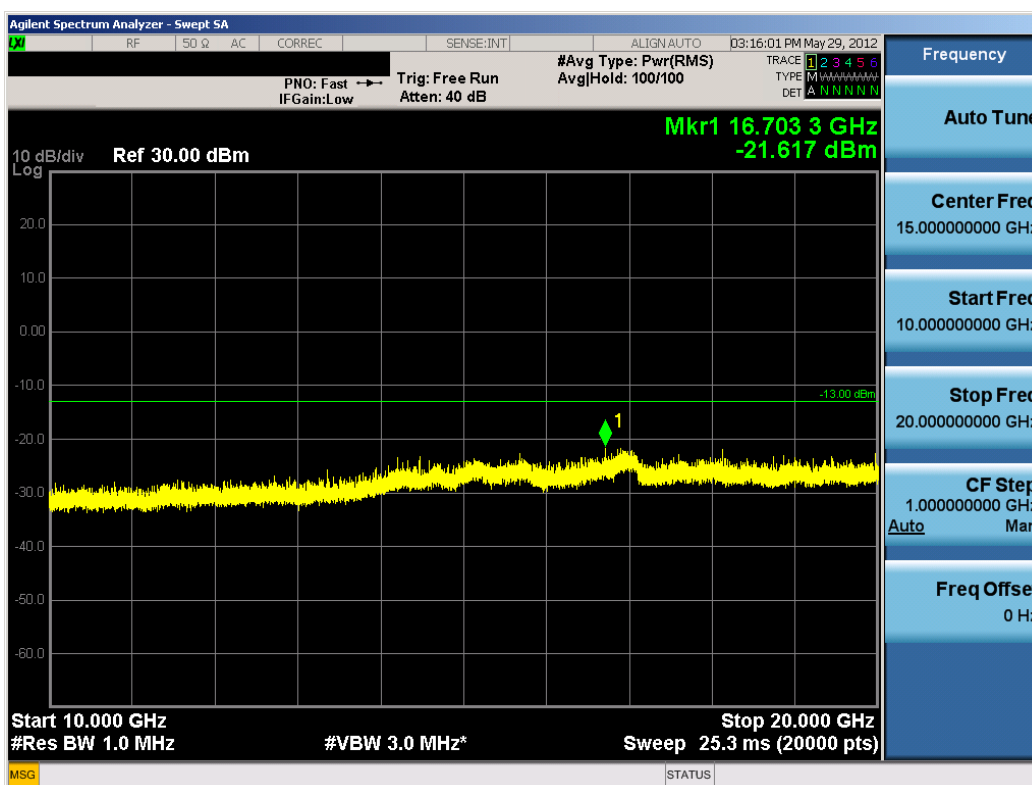


Plot 7-11. Peak-Average Ratio Plot (5MHz BW, 16-QAM, RB Size = 25, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 26 of 36

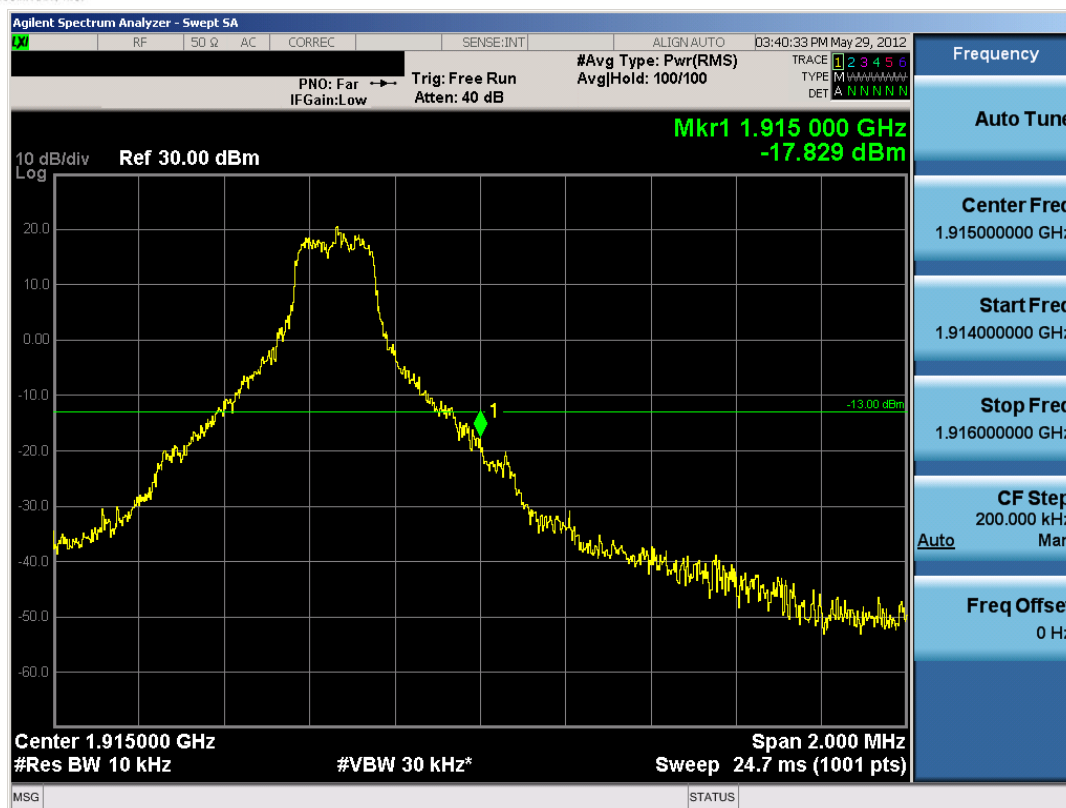


Plot 7-12. Conducted Spurious Plot (5MHz BW, QPSK, RB Size = 1, Offset = 0)



Plot 7-13. Conducted Spurious Plot (5MHz BW, QPSK, RB Size = 1, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 27 of 36

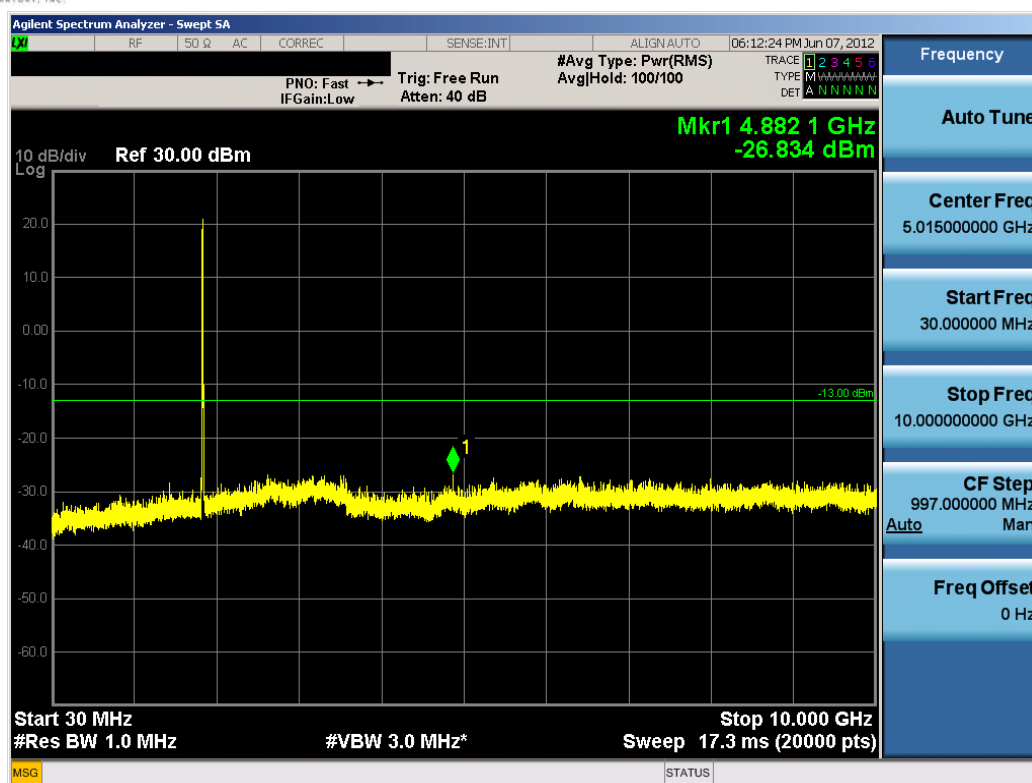


Plot 7-14. Band Edge Plot (5MHz BW, QPSK, RB Size = 1, Offset = 24)

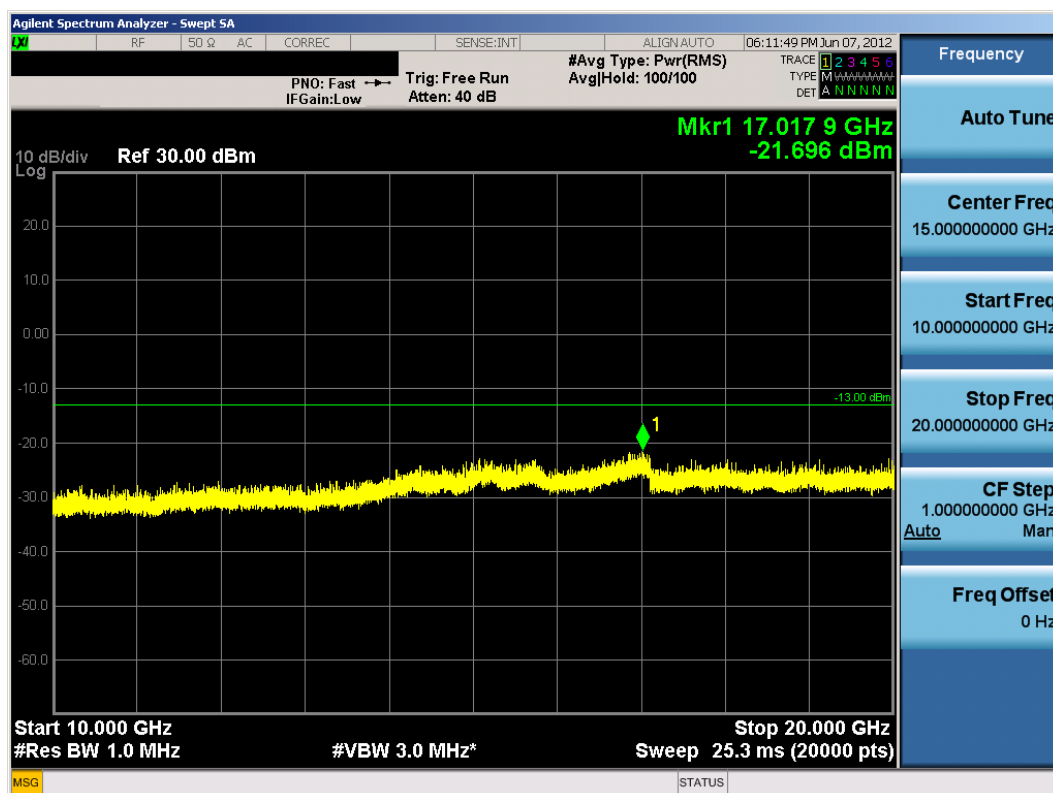


Plot 7-15. Extended Band Edge Plot (5MHz BW, QPSK, RB Size = 25, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 28 of 36

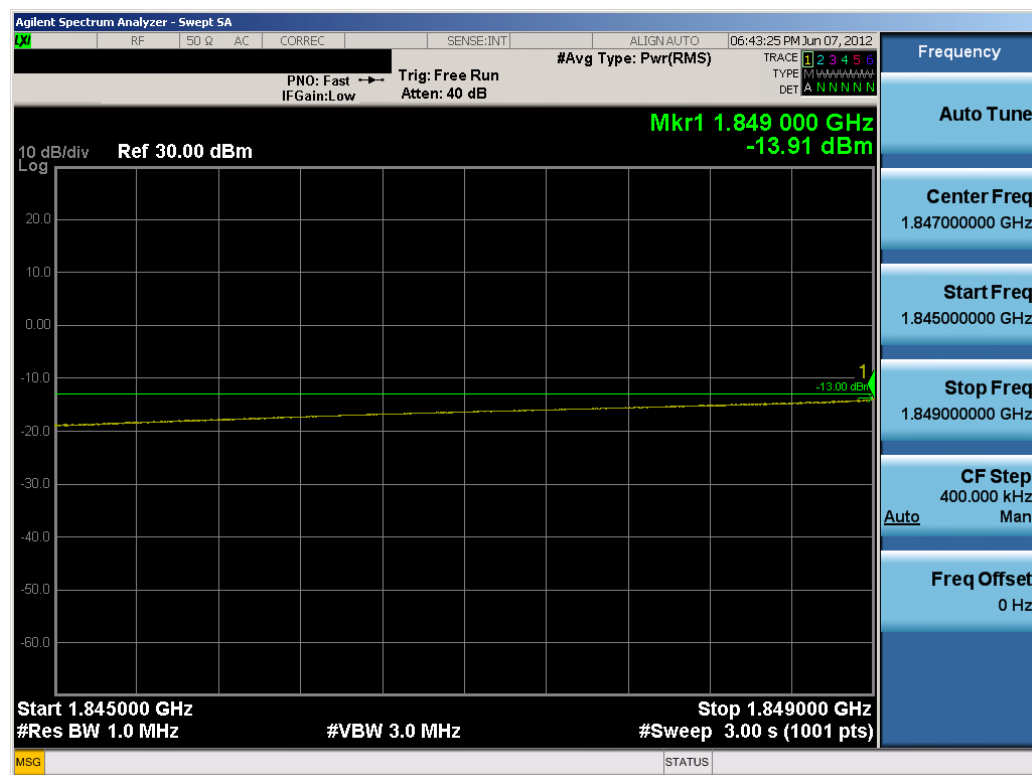
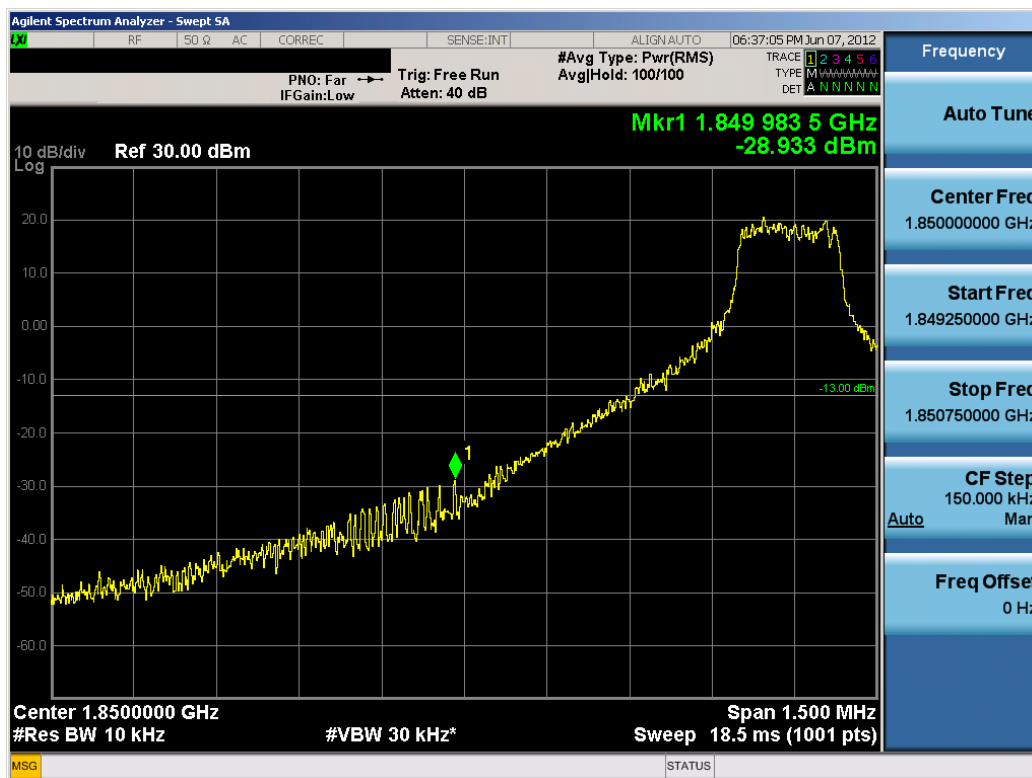


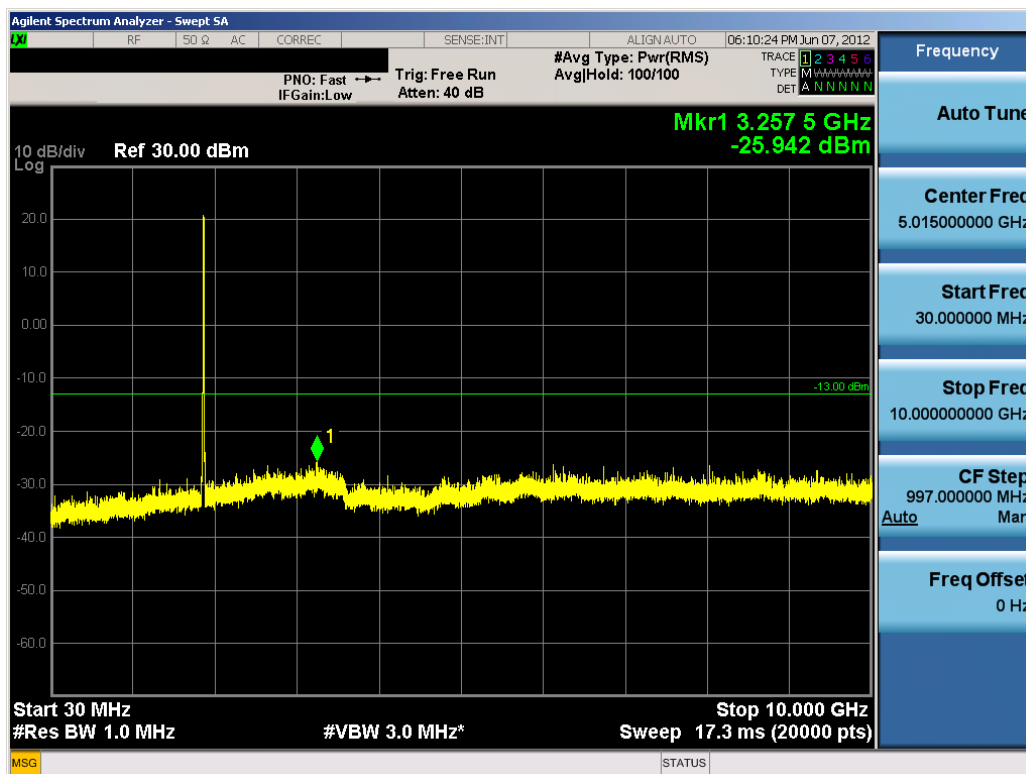
Plot 7-16. Conducted Spurious Plot (10MHz BW, QPSK, RB Size = 1, Offset = 0)



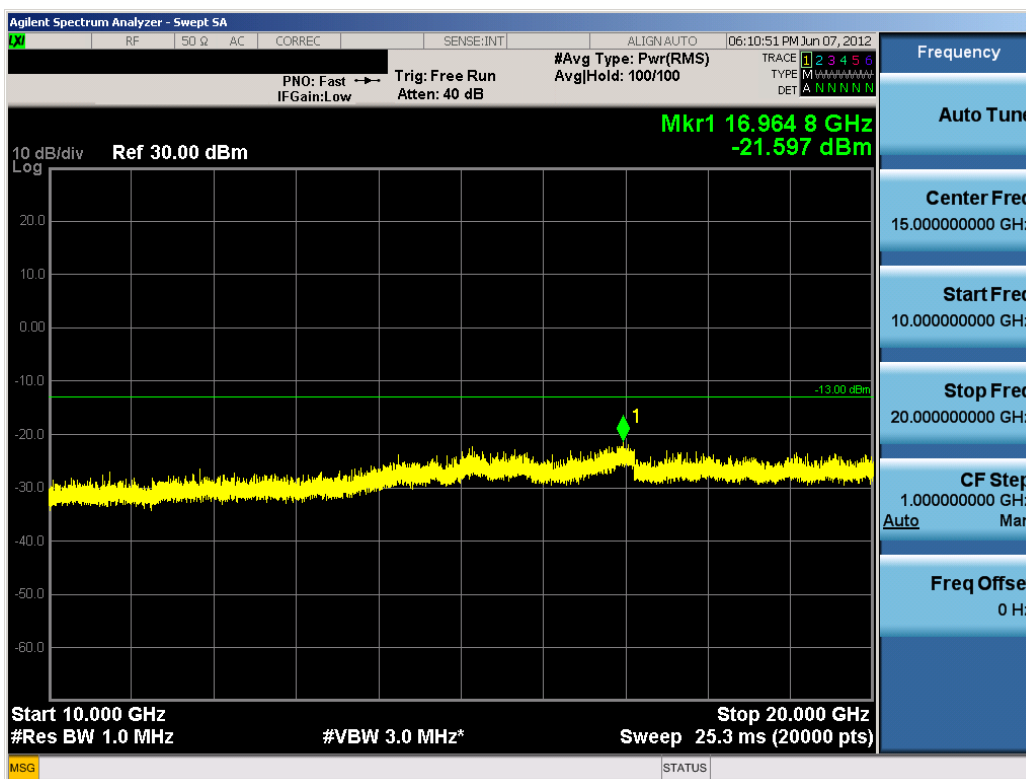
Plot 7-17. Conducted Spurious Plot (10MHz BW, QPSK, RB Size = 1, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 29 of 36



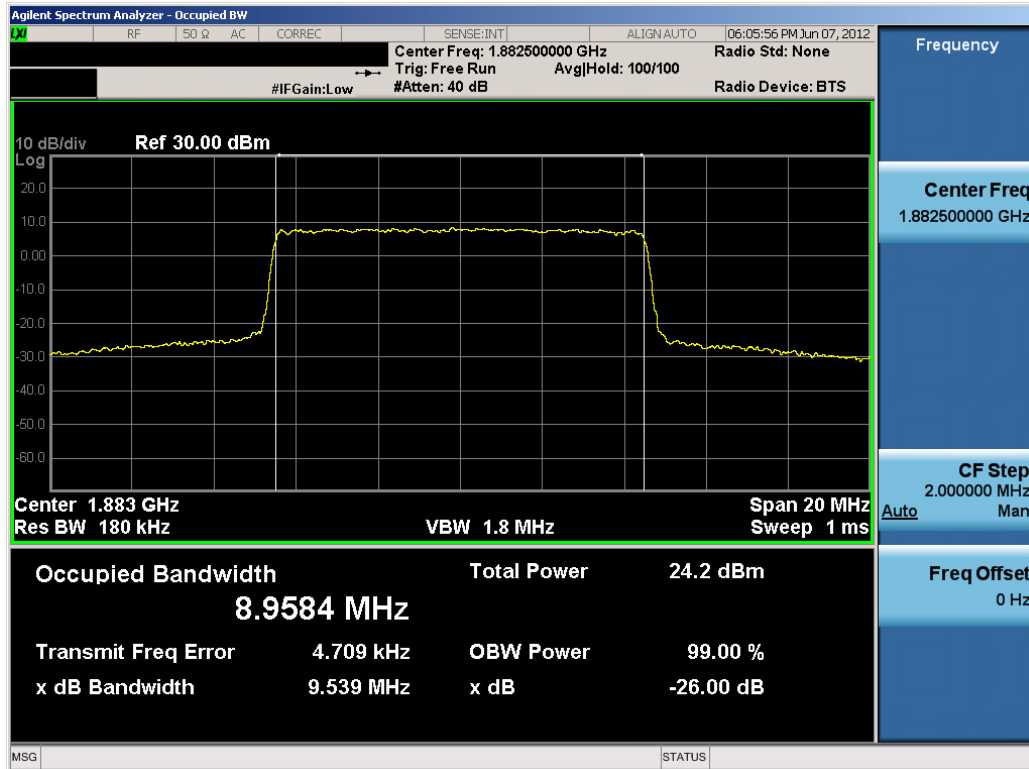


Plot 7-20. Conducted Spurious Plot (10MHz BW, QPSK, RB Size = 1, Offset = 0)

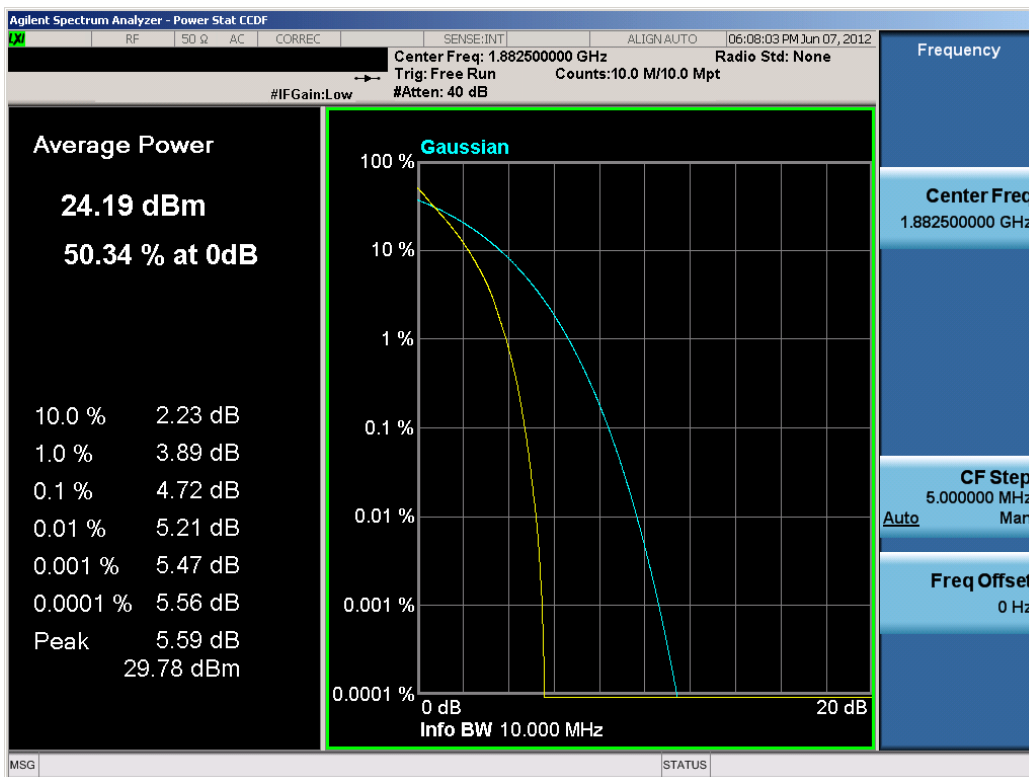


Plot 7-21. Conducted Spurious Plot (10MHz BW, QPSK, RB Size = 1, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 31 of 36

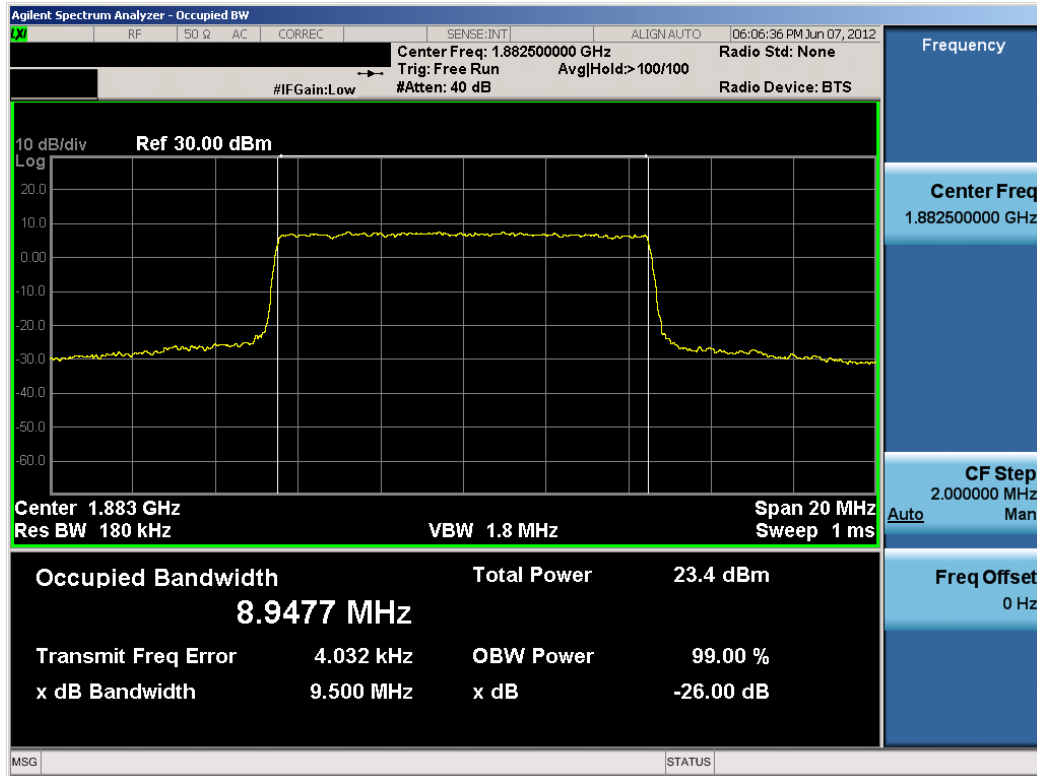


Plot 7-22. Occupied Bandwidth Plot (10MHz BW, QPSK, RB Size = 50, Offset = 0)

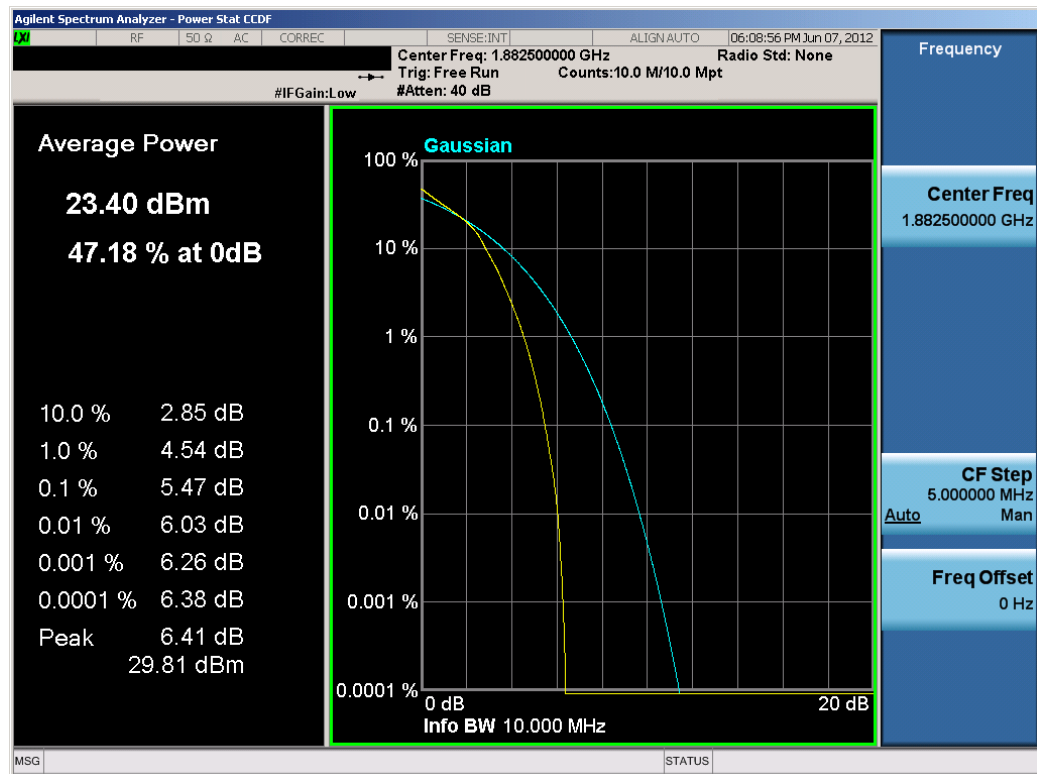


Plot 7-23. Peak-Average Ratio Plot (10MHz BW, QPSK, RB Size = 50, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 32 of 36

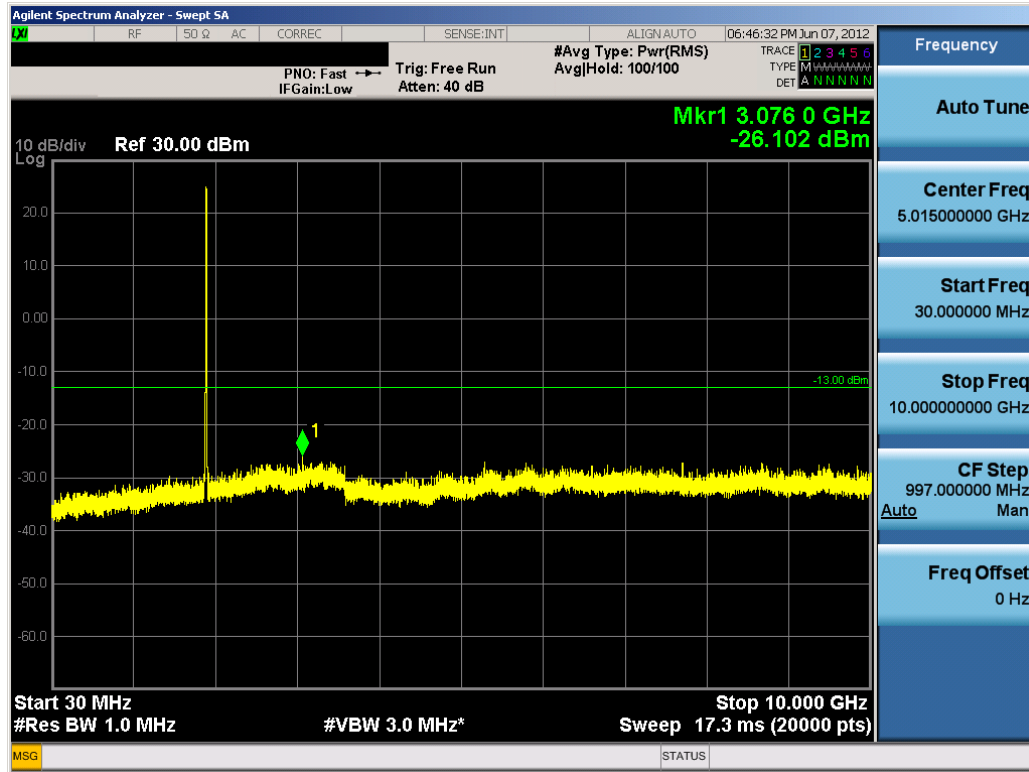


Plot 7-24. Occupied Bandwidth Plot (10MHz BW, 16-QAM, RB Size = 50, Offset = 0)

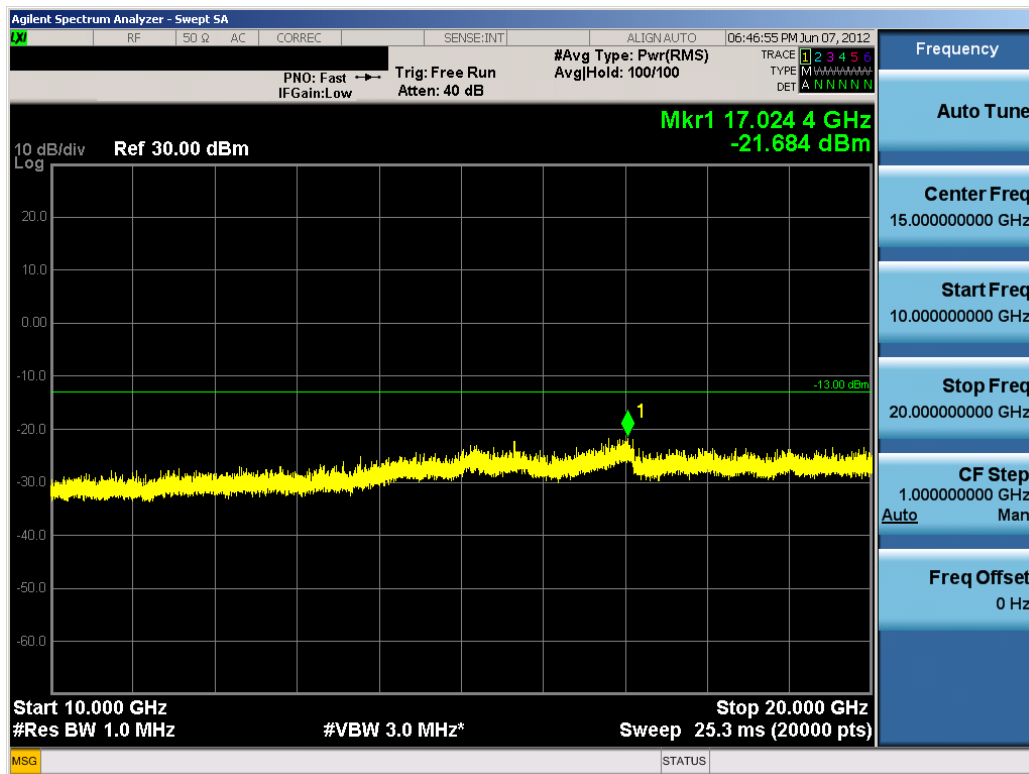


Plot 7-25. Peak-Average Ratio Plot (10MHz BW, 16-QAM, RB Size = 50, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 33 of 36

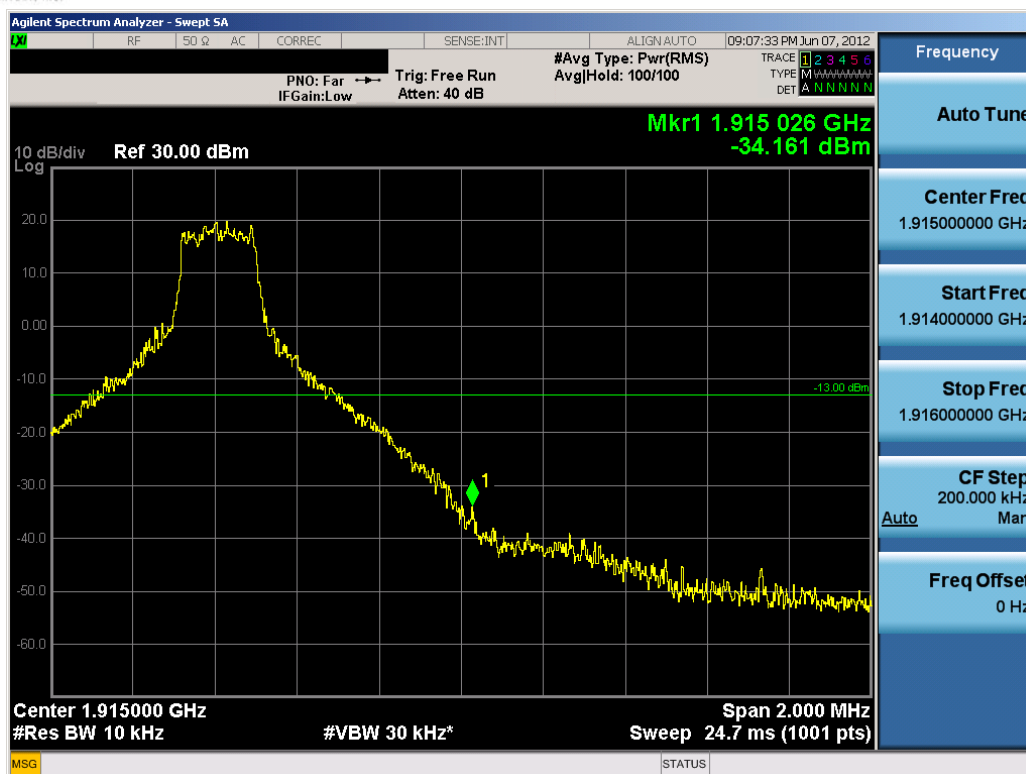


Plot 7-26. Conducted Spurious Plot (10MHz BW, QPSK, RB Size = 1, Offset = 0)

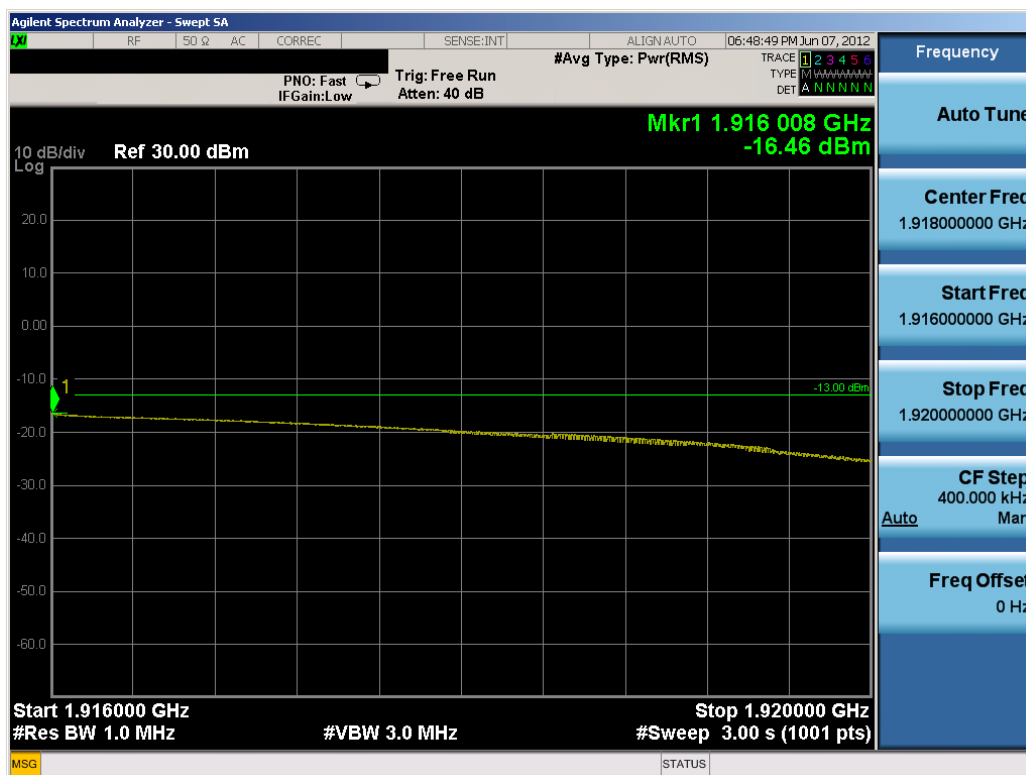


Plot 7-27. Conducted Spurious Plot (10MHz BW, QPSK, RB Size = 1, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 34 of 36



Plot 7-28. Band Edge Plot (10MHz BW, QPSK, RB Size = 50, Offset = 0)



Plot 7-20. Extended Band Edge Plot (10MHz BW, QPSK, RB Size = 50, Offset = 0)

FCC ID: IHDT56NL2	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset	Page 35 of 36

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Motorola Portable Handset FCC ID: IHDT56NL2** complies with all the requirements of Parts 2 and 24 of the FCC rules for LTE operation only.

FCC ID: IHDT56NL2		FCC Pt. 24 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205220713.IHD	Test Dates: 5/29/12 - 6/07/12	EUT Type: Portable Handset		Page 36 of 36