



MEASUREMENT REPORT

FCC Part 22, 24 & 27

Applicant Name:

Samsung Electronics, Co. Ltd.
18600 Broadwick St.
Rancho Dominguez, CA 90220
United States

Date of Testing:

Dec.12 - Jan. 23, 2011

Test Site/Location:

PCTEST Lab., Columbia, MD, USA

Test Report Serial No.:

0Y1112012067.A3L

FCC ID : A3LSCHI905U

APPLICANT: SAMSUNG ELECTRONICS, CO. LTD.

Application Type:

Certification

FCC Classification:

PCS Licensed Transmitter (PCB)

FCC Rule Part(s):

§2; §22; §24; §27

EUT Type:

Portable Tablet Computer

Model(s):

SCH-I905U

Test Device Serial No.:

identical prototype [S/N: MAX BAND 4, 5, 12, 2]

Mode	Tx Frequency (MHz)	Emission Designator	Modulation	ERP/EIRP	
				Max. Power (W)	Max. Power (dBm)
LTE Band 12	701.5 - 713.5	4M47G7D	QPSK	0.101	20.03
LTE Band 12	701.5 - 713.5	4M47W7D	16QAM	0.086	19.34
LTE Band 12	704 - 711	8M93G7D	QPSK	0.111	20.47
LTE Band 12	704 - 711	8M92W7D	16QAM	0.082	19.14
LTE Band 5	824.7 - 848.3	1M08G7D	QPSK	0.303	24.82
LTE Band 5	824.7 - 848.3	1M08W7D	16QAM	0.292	24.66
LTE Band 5	825.5 - 847.5	2M68G7D	QPSK	0.287	24.58
LTE Band 5	825.5 - 847.5	2M68W7D	16QAM	0.237	23.75
LTE Band 5	826.5 - 846.5	4M47G7D	QPSK	0.282	24.50
LTE Band 5	826.5 - 846.5	4M47W7D	16QAM	0.226	23.55
LTE Band 4	1712.5 - 1752.5	4M47G7D	QPSK	0.040	16.07
LTE Band 4	1712.5 - 1752.5	4M47W7D	16QAM	0.029	14.56
LTE Band 4	1715 - 1750	8M95G7D	QPSK	0.041	16.11
LTE Band 4	1715 - 1750	8M94W7D	16QAM	0.028	14.42
LTE Band 2	1850.7 - 1909.3	1M08G7D	QPSK	0.062	17.89
LTE Band 2	1850.7 - 1909.3	1M08W7D	16QAM	0.047	16.70
LTE Band 2	1851.5 - 1908.5	2M67G7D	QPSK	0.070	18.43
LTE Band 2	1851.5 - 1908.5	2M68W7D	16QAM	0.053	17.21
LTE Band 2	1852.5 - 1907.5	4M47G7D	QPSK	0.053	17.22
LTE Band 2	1852.5 - 1907.5	4M47W7D	16QAM	0.043	16.32

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. 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



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

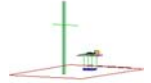
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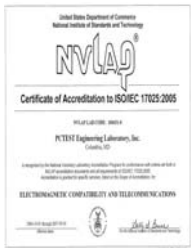
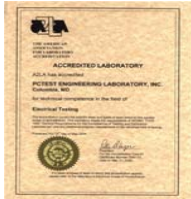


§2.1033 General Information

APPLICANT: Samsung Electronics, Co. Ltd.
APPLICANT ADDRESS: 18600 Broadwick St.
 Rancho Dominguez, CA 90220, United States
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22; §24; §27
BASE MODEL: SCH-I905U
FCC ID: A3LSCHI905U
FCC CLASSIFICATION: PCS Licensed Transmitter (PCB)
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: MAX BAND 4, 5, 12, 2 ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: Dec.12 - Jan. 23, 2011
TEST REPORT S/N: 0Y1112012067.A3L

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 area, 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 28, 2009.

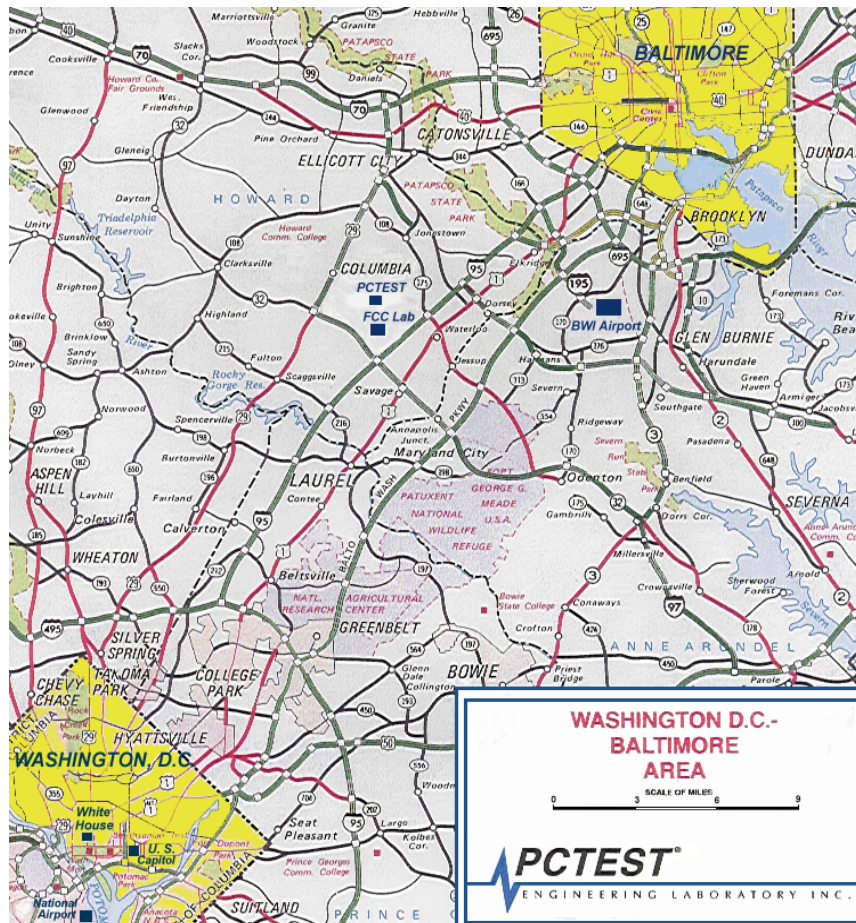


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Tablet Computer FCC ID: A3LSCHI905U**. 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 / Base Model	FCC ID	Description
Samsung / Model: SCH-I905U	A3LSCHI905U	Portable Tablet Computer

Table 2-1. EUT Equipment Description

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO (BC0, BC1), Band 2, 4, 5, 12 LTE, 802.11a/b/g/n WLAN, 802.11a/n UNII, Bluetooth

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

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.

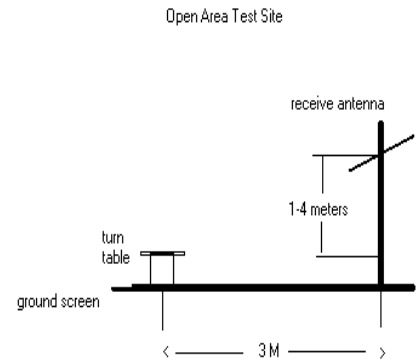


Figure 3-1. Diagram of 3-meter outdoor test range

Deviation from Measurement Procedure.....None

3.2 Occupied Bandwidth Emission Limits

§2.1049, §27.53(g)(1), §27.53(l)(6), RSS-Gen (4.6.1)

- 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 Block A Frequency Range

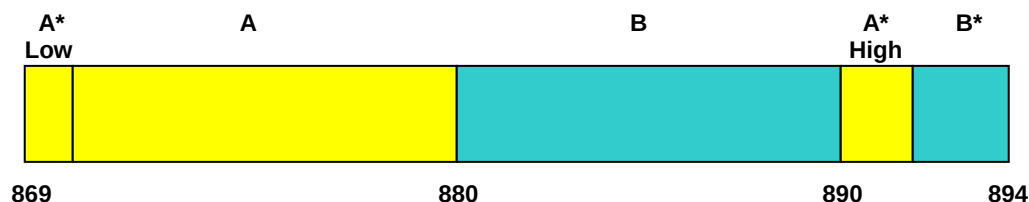
§27.5(c)

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.

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3.4 Cellular - Base Frequency Blocks



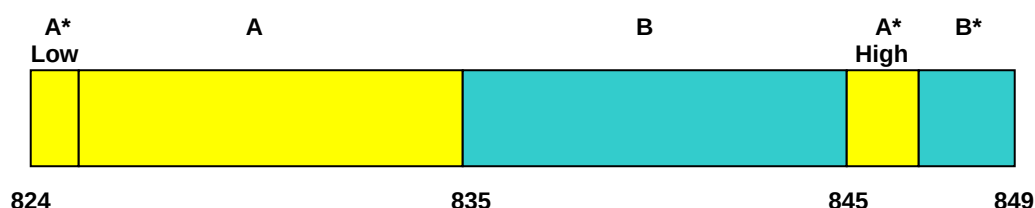
BLOCK 1: 869 – 880 MHz (A* Low + A)

BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 2: 880 – 890 MHz (B)

BLOCK 4: 891.5 – 894 MHz (B*)

3.5 Cellular - Mobile Frequency Blocks



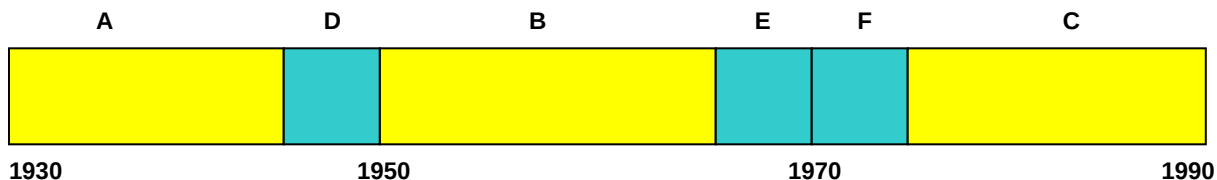
BLOCK 1: 824 – 835 MHz (A* Low + A)

BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B*)

3.6 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

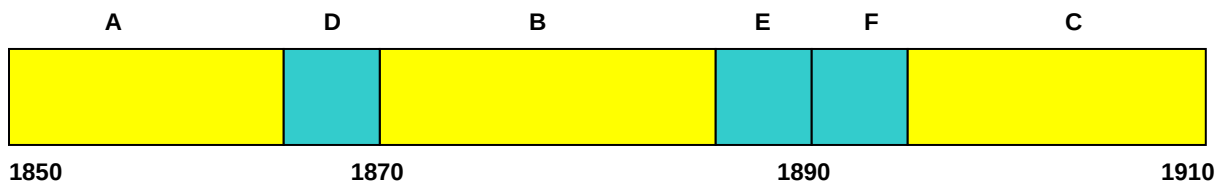
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

3.7 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)

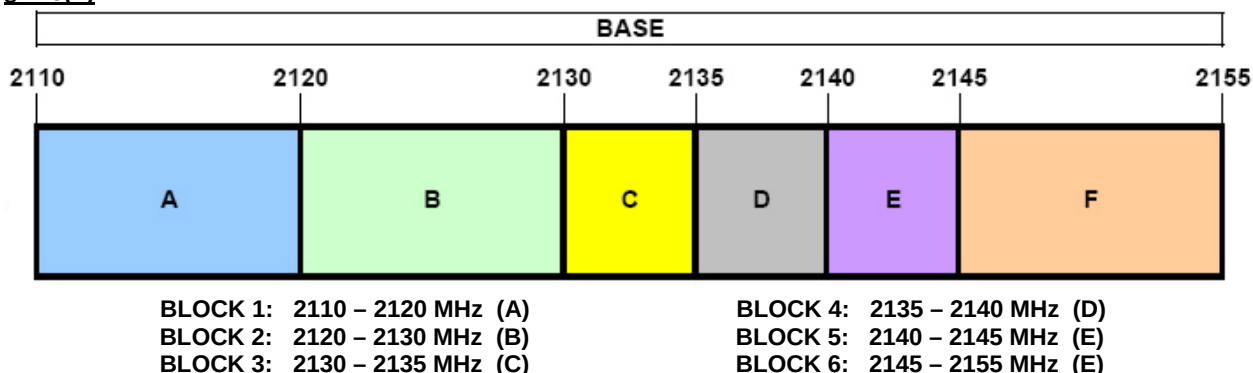
BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 6: 1895 – 1910 MHz (C)

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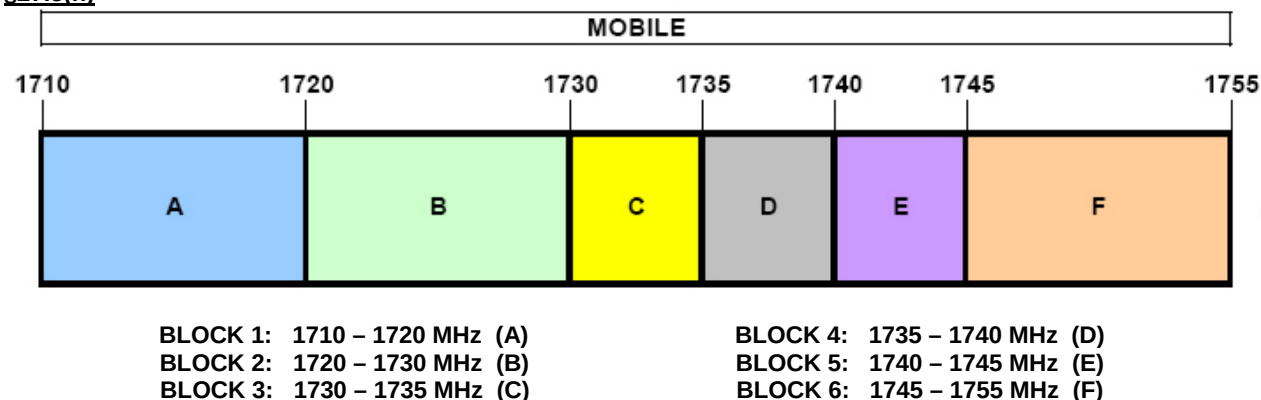
3.8 AWS - Base Frequency Blocks

§27.5(h)



3.9 AWS - Mobile Frequency Blocks

§27.5(h)



3.10 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, 22.917(a), 24.238(a)(b); RSS-132 (4.5.1), RSS-133 (6.5.1), §27.53(c), §27.53(g)

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.

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3.11 Radiated Power and Radiated Spurious Emissions

§2.1053, §22.913(a)(2), 22.917(a), 24.232(c), 24.238(a), §27.53(c)(d)(g), RSS-132(4.5.1.2), RSS-133 (6.5.1)

Radiated power and 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.

3.12 Peak-Average Ratio

§24.232(d), §27.50(d)(5), RSS-133 (6.4)

A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA 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.

3.13 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235, §27.54, RSS-132 (4.3), RSS-133 (6.3)

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. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 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 sufficient stabilization period at each temperature shall be used prior to each frequency requirement.

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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
-	263-10dB	(DC-18GHz) 10 dB Attenuator	N/A		N/A	N/A
-	No.166	(1000-26500MHz) Microwave RF Cable	N/A		N/A	N/A
-	No.167	(100kHz - 100MHz) RG58 Coax Cable	N/A		N/A	N/A
Agilent	8449B	(1-26.5GHz) Pre-Amplifier	2/8/2011	Annual	2/8/2012	3008A00985
Agilent	E5515C	Wireless Communications Test Set	2/8/2011	Annual	2/8/2012	GB45360985
Agilent	E4407B	ESA Spectrum Analyzer	4/5/2011	Annual	4/5/2012	US39210313
Agilent	85650A	Quasi-Peak Adapter	4/7/2011	Annual	4/7/2012	3303A01872
Agilent	85650A	Quasi-Peak Adapter	4/7/2011	Annual	4/7/2012	2043A00301
Agilent	8566B	(100Hz-22GHz) Spectrum Analyzer	4/7/2011	Annual	4/7/2012	3638A08713
Agilent	E8257D	(250kHz-20GHz) Signal Generator	4/8/2011	Annual	4/8/2012	MY45470194
Agilent	E5515C	Wireless Communications Test Set	7/6/2011	Annual	7/6/2012	GB41450275
Agilent	N9038A	MXE EMI Receiver	8/5/2011	Annual	8/5/2012	MY51210133
Agilent	8648D	(9kHz-4GHz) Signal Generator	10/10/2011	Annual	10/10/2012	3613A00315
Agilent	E5515C	Wireless Communications Test Set	10/10/2011	Annual	10/10/2012	GB46110872
Agilent	E8267C	Vector Signal Generator	10/10/2011	Annual	10/10/2012	US42340152
Agilent	N9020A	MXA Signal Analyzer	10/10/2011	Annual	10/10/2012	US46470561
Anritsu	MA2411B	Pulse Sensor	10/13/2011	Annual	10/13/2012	1027293
Anritsu	ML2495A	Power Meter	10/13/2011	Annual	10/13/2012	1039008
Compliance Design	Roberts	Dipole Set	4/7/2010	Biennial	4/7/2012	146
Compliance Design	Roberts	Dipole Set	4/7/2010	Biennial	4/7/2012	147
Emco	3115	Horn Antenna (1-18GHz)	4/8/2010	Biennial	4/8/2012	9205-3874
Espec	ESX-2CA	Environmental Chamber	4/21/2011	Annual	4/21/2012	17620
ETS Lindgren	3160-09	18-26.5 GHz Standard Gain Horn	5/31/2011	Annual	5/31/2012	135427
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	7/22/2011	Annual	7/22/2012	125518
Gigatronics	80701A	(0.05-18GHz) Power Sensor	10/12/2011	Annual	10/12/2012	1833460
Gigatronics	8651A	Universal Power Meter	10/12/2011	Annual	10/12/2012	8650319
K & L	11SH10	Band Pass Filter	N/A		N/A	1300/4000
K & L	11SH10	Band Pass Filter	N/A		N/A	4000/12000
MiniCircuits	VHF-1300+	High Pass Filter	N/A		N/A	30716
MiniCircuits	VHF-3100+	High Pass Filter	N/A		N/A	30721
Pasternack	PE2208-6	Bidirectional Coupler	N/A		N/A	N/A
Rohde & Schwarz	CMU200	Base Station Simulator	4/19/2011	Annual	4/19/2012	107826
Rohde & Schwarz	CMU200	Base Station Simulator	6/1/2011	Annual	6/1/2012	833855/0010
Rohde & Schwarz	RS-PR18	1-18 GHz Pre-Amplifier	6/9/2011	Annual	6/9/2012	100071
Rohde & Schwarz	RS-PR26	18-26.5 GHz Pre-Amplifier	6/9/2011	Annual	6/9/2012	100040
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	8/5/2011	Annual	8/5/2012	112347
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	8/25/2011	Annual	8/25/2012	100976
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	10/7/2011	Annual	10/7/2012	103962
Rohde & Schwarz	CMU200	Base Station Simulator	N/A			836536/0005
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Tx	10/3/2011	Biennial	10/3/2013	91052522TX
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	10/3/2011	Biennial	10/3/2013	91052523RX
Sunol	DRH-118	Horn Antenna (1-18 GHz)	6/17/2011	Biennial	6/17/2013	A042511
Sunol	DRH-118	Horn Antenna (1 - 18GHz)	7/5/2011	Biennial	7/5/2013	A050307

Table 4-1. Test Equipment

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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 average receive power meter 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 power meter. 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).

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6.0 TEST RESULTS

6.1 Summary

Company Name: Samsung Electronics, Co. Ltd.
 FCC ID: A3LSCHI905U
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): LTE

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)						
2.1049, 22.917(a), 24.238(a), 27.53(g)(1)	RSS-Gen (4.6.1) RSS-133 (2.3)	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 7.0
2.1051, 22.917(a), 24.238(a), 27.53(g)	RSS-133 (6.5.1)	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)	RSS-133 (6.4)	Peak-Average Ratio	$< 13 \text{ dB}$		PASS	Section 7.0
2.1046	RSS-132 (4.4) RSS-133 (4.1)	Transmitter Conducted Output Power	N/A		PASS	SAR Report
22.913(a)(2)	RSS-132 (4.4) [SRSP-503(5.1.3)]	Effective Radiated Power (Band 5)	$< 7 \text{ Watts max. ERP}$	RADIATED	PASS	Section 6.2
27.50(c)(10)		Effective Radiated Power (Band 12)	$< 3 \text{ Watts max. ERP}$		PASS	Section 6.2
24.232(c)	RSS-133 (6.4) [SRSP-510(5.1.2)]	Equivalent Isotropic Radiated Power (Band 2)	$< 2 \text{ Watts max. EIRP}$		PASS	Section 6.2
27.50(d)(4)		Equivalent Isotropic Radiated Power (Band 4)	$< 1 \text{ Watts max. EIRP}$		PASS	Section 6.2
2.1053, 27.53(g), 22.917(a), 24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Undesirable Emissions	$< 43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions		PASS	Section 6.4, 6.5, 6.6, 6.7
2.1055, 27.54, 22.355, 24.235	RSS-132 (4.3) RSS-133 (6.3)	Frequency Stability	$< 2.5 \text{ ppm}$		PASS	Section 6.8, 6.9, 6.10, 6.11

Table 6-1. Summary of Test Results

FCC ID: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.2 Effective Radiated Power Output Data

§22.913(a)(2), §27.50(c)(10).

	Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	Battery
Band XII LTE	701.50	5	QPSK	12 / 6	-19.76	16.00	0.00	H	16.00	0.040	Standard
	707.00	5	QPSK	1 / 24	-17.46	18.30	0.00	H	18.30	0.068	Standard
	713.50	5	QPSK	1 / 24	-15.73	20.03	0.00	H	20.03	0.101	Standard
	701.50	5	16-QAM	12 / 6	-20.00	15.76	0.00	H	15.76	0.038	Standard
	707.00	5	16-QAM	1 / 24	-18.23	17.53	0.00	H	17.53	0.057	Standard
	713.50	5	16-QAM	1 / 24	-16.42	19.34	0.00	H	19.34	0.086	Standard
	704.00	10	QPSK	1 / 49	-18.79	16.97	0.00	H	16.97	0.050	Standard
	707.00	10	QPSK	1 / 49	-16.02	19.74	0.00	H	19.74	0.094	Standard
	711.00	10	QPSK	1 / 49	-15.29	20.47	0.00	H	20.47	0.111	Standard
	704.00	10	16-QAM	1 / 49	-19.47	16.29	0.00	H	16.29	0.043	Standard
	707.00	10	16-QAM	1 / 49	-16.75	19.01	0.00	H	19.01	0.080	Standard
	711.00	10	16-QAM	1 / 49	-16.62	19.14	0.00	H	19.14	0.082	Standard

Table 6-2. Effective Radiated Power Output Data (Band 12)

	Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	Battery
Band V LTE	824.70	1.4	QPSK	3 / 2	-15.37	24.33	0.00	H	24.33	0.271	Standard
	836.50	1.4	QPSK	3 / 2	-14.88	24.82	0.00	H	24.82	0.303	Standard
	848.30	1.4	QPSK	1 / 0	-17.56	22.14	0.00	H	22.14	0.164	Standard
	824.70	1.4	16-QAM	3 / 2	-16.35	23.41	0.00	H	23.41	0.219	Standard
	836.50	1.4	16-QAM	3 / 2	-15.10	24.66	0.00	H	24.66	0.292	Standard
	848.30	1.4	16-QAM	1 / 0	-19.30	20.46	0.00	H	20.46	0.111	Standard
	825.50	3	QPSK	1 / 14	-16.00	23.76	0.00	H	23.76	0.238	Standard
	836.50	3	QPSK	1 / 0	-15.18	24.58	0.00	H	24.58	0.287	Standard
	847.50	3	QPSK	1 / 0	-19.34	20.42	0.00	H	20.42	0.110	Standard
	825.50	3	16-QAM	1 / 14	-17.44	22.32	0.00	H	22.32	0.171	Standard
	836.50	3	16-QAM	1 / 0	-16.01	23.75	0.00	H	23.75	0.237	Standard
	847.50	3	16-QAM	1 / 0	-20.22	19.54	0.00	H	19.54	0.090	Standard
	826.50	5	QPSK	1 / 24	-16.85	22.91	0.00	H	22.91	0.195	Standard
	836.50	5	QPSK	1 / 0	-15.26	24.50	0.00	H	24.50	0.282	Standard
	846.50	5	QPSK	12 / 6	-19.14	20.62	0.00	H	20.62	0.115	Standard
	826.50	5	16-QAM	1 / 24	-18.07	21.69	0.00	H	21.69	0.148	Standard
	836.50	5	16-QAM	1 / 0	-16.21	23.55	0.00	H	23.55	0.226	Standard
	846.50	5	16-QAM	12 / 6	-20.40	19.36	0.00	H	19.36	0.086	Standard

Table 6-3. Effective Radiated Power Output Data (Band 5)

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 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 level is recorded using the power meter. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

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.

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6.3 Equivalent Isotropic Radiated Power Output Data §27.50(d)(4), §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 IV LTE	1712.50	5	QPSK	1 / 24	-24.68	7.33	8.33	H	15.66	0.037	Standard
	1732.50	5	QPSK	1 / 0	-24.17	7.84	8.23	H	16.07	0.040	Standard
	1752.50	5	QPSK	1 / 0	-24.32	7.69	8.12	H	15.81	0.038	Standard
	1712.50	5	16-QAM	1 / 24	-25.78	6.23	8.33	H	14.56	0.029	Standard
	1732.50	5	16-QAM	1 / 0	-25.82	6.19	8.23	H	14.42	0.028	Standard
	1752.50	5	16-QAM	1 / 0	-25.81	6.20	8.12	H	14.32	0.027	Standard
	1715.00	10	QPSK	1 / 0	-25.32	6.69	8.33	H	15.02	0.032	Standard
	1732.50	10	QPSK	1 / 0	-24.13	7.88	8.23	H	16.11	0.041	Standard
	1750.00	10	QPSK	1 / 0	-24.86	7.15	8.12	H	15.27	0.034	Standard
	1715.00	10	16-QAM	1 / 0	-25.92	6.09	8.33	H	14.42	0.028	Standard
	1732.50	10	16-QAM	1 / 0	-25.85	6.16	8.23	H	14.39	0.027	Standard
	1750.00	10	16-QAM	1 / 0	-26.12	5.89	8.12	H	14.01	0.025	Standard

Table 6-4. Equivalent Isotropic Radiated Power Output Data (Band 4)

	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 II LTE	1850.70	1.4	QPSK	3 / 2	-24.26	9.94	7.95	H	17.89	0.062	Standard
	1880.00	1.4	QPSK	3 / 2	-25.62	8.58	7.99	H	16.57	0.045	Standard
	1909.30	1.4	QPSK	3 / 2	-25.05	9.15	8.06	H	17.21	0.053	Standard
	1850.70	1.4	16-QAM	3 / 2	-25.45	8.75	7.95	H	16.70	0.047	Standard
	1880.00	1.4	16-QAM	3 / 2	-26.45	7.75	7.99	H	15.74	0.037	Standard
	1909.30	1.4	16-QAM	3 / 2	-26.13	8.07	8.06	H	16.13	0.041	Standard
	1851.50	3	QPSK	1 / 0	-23.72	10.48	7.95	H	18.43	0.070	Standard
	1880.00	3	QPSK	1 / 14	-25.98	8.22	7.99	H	16.21	0.042	Standard
	1908.50	3	QPSK	1 / 0	-25.44	8.76	8.06	H	16.82	0.048	Standard
	1851.50	3	16-QAM	1 / 0	-24.94	9.26	7.95	H	17.21	0.053	Standard
	1880.00	3	16-QAM	1 / 14	-26.87	7.33	7.99	H	15.32	0.034	Standard
	1908.50	3	16-QAM	1 / 0	-26.25	7.95	8.06	H	16.01	0.040	Standard
	1852.50	5	QPSK	1 / 0	-24.93	9.27	7.95	H	17.22	0.053	Standard
	1880.00	5	QPSK	1 / 24	-26.54	7.66	7.99	H	15.65	0.037	Standard
	1907.50	5	QPSK	12 / 6	-26.80	7.40	8.06	H	15.46	0.035	Standard
	1852.50	5	16-QAM	1 / 0	-25.83	8.37	7.95	H	16.32	0.043	Standard
	1880.00	5	16-QAM	1 / 24	-27.67	6.53	7.99	H	14.52	0.028	Standard
	1907.50	5	16-QAM	12 / 6	-27.99	6.21	8.06	H	14.27	0.027	Standard

Table 6-5. Equivalent Isotropic Radiated Power Output Data (Band 2)

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 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.

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6.4 Band 12 Radiated Measurements

§2.1053, §27.50(c)(10)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 704.00 MHz
 CHANNEL: 23025
 MEASURED OUTPUT POWER: 16.970 dBm = 0.050 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 29.97 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1408.00	-44.32	5.86	-38.46	H	55.4
2112.00	-26.49	6.68	-19.81	H	36.8
2816.00	-52.55	8.07	-44.48	H	61.5
3520.00	-91.38	7.67	-83.71	H	100.7
4224.00	-89.51	8.09	-81.41	H	98.4
4928.00	-88.29	9.00	-79.29	H	96.3

Table 6-6. Radiated Spurious Data (Ch. 23025)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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.

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Band 12 Radiated Measurements

§2.1053, §27.50(c)(10)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 707.00 MHz
 CHANNEL: 23090
 MEASURED OUTPUT POWER: 19.740 dBm = 0.094 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.74 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1414.00	-44.30	5.91	-38.40	H	58.1
2121.00	-26.60	6.70	-19.90	H	39.6
2828.00	-48.44	8.05	-40.38	H	60.1
3535.00	-91.41	7.75	-83.66	H	103.4
4242.00	-89.75	8.29	-81.47	H	101.2
4949.00	-88.06	8.98	-79.08	H	98.8

Table 6-7. Radiated Spurious Data (Ch. 23090)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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.

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Band 12 Radiated Measurements

§2.1053, §27.50(c)(10)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 711.00 MHz
 CHANNEL: 23155
 MEASURED OUTPUT POWER: 20.470 dBm = 0.111 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.47 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1422.00	-48.76	5.96	-42.80	H	63.3
2133.00	-26.67	6.72	-19.95	H	40.4
2844.00	-55.93	8.04	-47.89	H	68.4
3555.00	-91.44	7.83	-83.61	H	104.1
4266.00	-89.98	8.48	-81.50	H	102.0
4977.00	-87.84	8.96	-78.88	H	99.4

Table 6-8. Radiated Spurious Data (Ch. 23155)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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.

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6.5 Band 5 Radiated Measurements

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 20425
 MEASURED OUTPUT POWER: 24.330 dBm = 0.271 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 37.33 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1649.40	-49.55	6.33	-43.22	H	67.6
2474.10	-41.56	6.81	-34.75	H	59.1
3298.80	-47.11	7.12	-39.99	H	64.3
4123.50	-29.97	7.63	-22.34	H	46.7
4948.20	-48.52	8.97	-39.55	H	63.9
5772.90	-85.76	9.21	-76.55	H	100.9

Table 6-9. Radiated Spurious Data (Ch. 20425)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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.

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Band 5 Radiated Measurements

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.50 MHz
 CHANNEL: 20525
 MEASURED OUTPUT POWER: 24.820 dBm = 0.303 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 37.82 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1673.00	-52.91	6.29	-46.62	H	71.0
2509.50	-42.99	6.84	-36.15	H	60.5
3346.00	-41.43	7.24	-34.20	H	58.5
4182.50	-26.11	7.96	-18.15	H	42.5
5019.00	-48.18	8.90	-39.28	H	63.6
5855.50	-85.54	9.20	-76.34	H	100.7

Table 6-10. Radiated Spurious Data (Ch. 20525)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Band 5 Radiated Measurements

§2.1053, 22.917(a)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.30 MHz
 CHANNEL: 20625
 MEASURED OUTPUT POWER: 22.140 dBm = 0.164 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 35.14 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1696.60	-44.44	6.25	-38.18	H	60.3
2544.90	-45.33	6.92	-38.41	H	60.6
3393.20	-44.42	7.35	-37.06	H	59.2
4241.50	-22.77	8.24	-14.53	H	36.7
5089.80	-44.38	8.72	-35.66	H	57.8
5938.10	-48.56	9.15	-39.40	H	61.5

Table 6-11. Radiated Spurious Data (Ch. 20625)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.6 Band 4 Radiated Measurements

§2.1053, §27.50(d)(4)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1715.00 MHz
CHANNEL: 19975
MEASURED OUTPUT POWER: 15.020 dBm = 0.032 W
MODULATION SIGNAL: QPSK
BANDWIDTH: 10 MHz
DISTANCE: 3 meters
LIMIT: $43 + 10 \log_{10} (W) = 28.02$ dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3430.00	-51.65	9.61	-42.03	H	57.1
5145.00	-90.08	10.79	-79.29	H	94.3
6860.00	-49.43	10.60	-38.83	H	53.9
8575.00	-82.56	11.55	-71.00	H	86.0
10290.00	-81.36	12.71	-68.65	H	83.7
12005.00	-73.11	12.17	-60.94	H	76.0

Table 6-12. Radiated Spurious Data (Ch. 19975)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Band 4 Radiated Measurements

§2.1053, §27.50(d)(4)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1732.50 MHz
 CHANNEL: 20175
 MEASURED OUTPUT POWER: 16.110 dBm = 0.041 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) = 29.11$ dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3465.00	-52.91	9.72	-43.19	H	59.3
5197.50	-89.80	10.75	-79.04	H	95.2
6930.00	-49.61	10.75	-38.87	H	55.0
8662.50	-82.59	11.70	-70.89	H	87.0
10395.00	-81.02	12.66	-68.36	H	84.5
12127.50	-72.03	12.02	-60.01	H	76.1

Table 6-13. Radiated Spurious Data (Ch. 20175)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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.

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Band 4 Radiated Measurements

§2.1053, §27.50(d)(4)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1750.00 MHz
 CHANNEL: 20375
 MEASURED OUTPUT POWER: 15.270 dBm = 0.034 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 28.27 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3500.00	-51.44	9.83	-41.62	H	56.9
5250.00	-89.86	10.88	-78.98	H	94.2
7000.00	-85.71	10.92	-74.79	H	90.1
8750.00	-82.71	11.89	-70.82	H	86.1
10500.00	-80.66	12.62	-68.04	H	83.3
12250.00	-71.67	12.19	-59.48	H	74.8

Table 6-14. Radiated Spurious Data (Ch. 20375)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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.

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6.7 Band 2 Radiated Measurements

§2.1053, §24.232(c)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1851.50 MHz
 CHANNEL: 18615
 MEASURED OUTPUT POWER: 18.430 dBm = 0.070 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 31.43 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3703.00	-52.91	9.93	-42.98	H	61.4
5554.50	-51.67	10.96	-40.70	H	59.1
7406.00	-84.40	10.80	-73.60	H	92.0
9257.50	-82.97	12.33	-70.64	H	89.1
11109.00	-78.38	13.06	-65.32	H	83.7
12960.50	-70.34	12.62	-57.72	H	76.2

Table 6-15. Radiated Spurious Data (Ch. 18615)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Band 2 Radiated Measurements

§2.1053, §24.232(c)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 18900
 MEASURED OUTPUT POWER: 16.210 dBm = 0.042 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 29.21 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-53.39	9.60	-43.78	H	60.0
5640.00	-53.06	11.16	-41.90	H	58.1
7520.00	-84.69	11.08	-73.61	H	89.8
9400.00	-82.74	12.22	-70.51	H	86.7
11280.00	-78.10	13.23	-64.87	H	81.1
13160.00	-70.30	12.71	-57.59	H	73.8

Table 6-16. Radiated Spurious Data (Ch. 18900)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Band 2 Radiated Measurements

§2.1053, §24.232(c)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1908.50 MHz
 CHANNEL: 19185
 MEASURED OUTPUT POWER: 16.820 dBm = 0.048 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) = 29.82$ dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3817.00	-50.28	9.32	-40.96	H	57.8
5725.50	-52.26	11.32	-40.94	H	57.8
7634.00	-84.90	11.35	-73.55	H	90.4
9542.50	-82.94	12.40	-70.54	H	87.4
11451.00	-77.93	13.33	-64.60	H	81.4
13359.50	-70.60	13.00	-57.60	H	74.4

Table 6-17. Radiated Spurious Data (Ch. 19185)

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 emissions are reported at the maximum channel BW and respective settings for QPSK for all bands. 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.

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6.8 Band 12 Frequency Stability Measurements

S2.1055, 24.235, RSS-133 (6.3)

OPERATING FREQUENCY: 707,000,000 Hz

CHANNEL: 18900

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	707,000,018	18	0.000003
100 %		- 30	707,000,020	20	0.000003
100 %		- 20	706,999,983	-17	-0.000002
100 %		- 10	706,999,988	-12	-0.000002
100 %		0	707,000,020	20	0.000003
100 %		+ 10	707,000,027	27	0.000004
100 %		+ 20	706,999,990	-10	-0.000001
100 %		+ 30	706,999,986	-14	-0.000002
100 %		+ 40	707,000,013	13	0.000002
100 %		+ 50	707,000,021	21	0.000003
115 %	5.75	+ 20	707,000,016	16	0.000002
85 %	4.25	+ 20	706,999,983	-17	-0.000002

Table 6-18. Frequency Stability Data (Band 12)

FCC ID: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Band 12 Frequency Stability Measurements (Cont'd)
§2.1055, 24.235, RSS-133 (6.3)

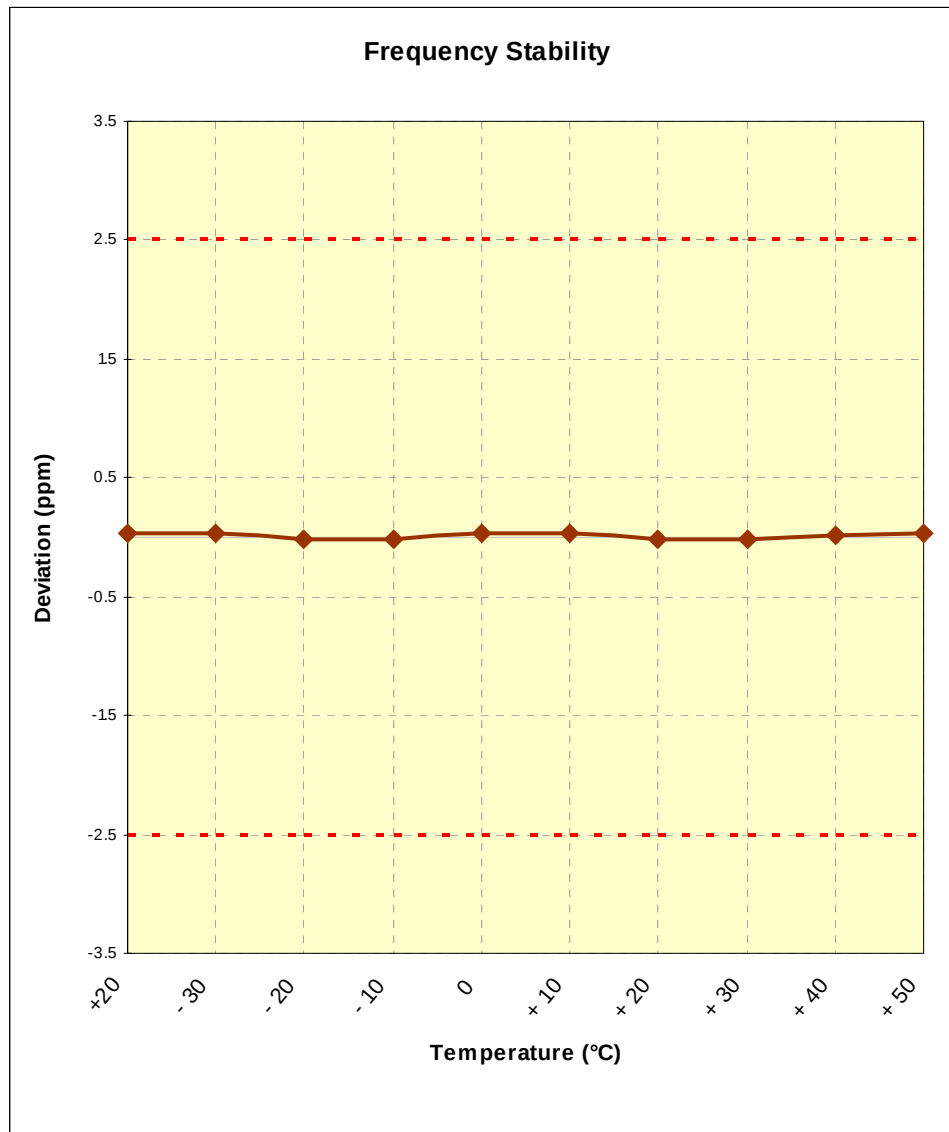


Figure 6-1. Frequency Stability Graph (Band 12)

FCC ID: A3LSCHI905U		FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.9 Band 5 Frequency Stability Measurements

§2.1055, 22.355

OPERATING FREQUENCY: 836,500,000 Hz

CHANNEL: 20525

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	836,499,978	-22	-0.000003
100 %		- 30	836,500,021	21	0.000003
100 %		- 20	836,500,022	22	0.000003
100 %		- 10	836,500,023	23	0.000003
100 %		0	836,499,981	-19	-0.000002
100 %		+ 10	836,500,019	19	0.000002
100 %		+ 20	836,499,981	-19	-0.000002
100 %		+ 30	836,500,021	21	0.000003
100 %		+ 40	836,500,017	17	0.000002
100 %		+ 50	836,500,018	18	0.000002
115 %	5.75	+ 20	836,500,020	20	0.000002
85 %	4.25	+ 20	836,499,977	-23	-0.000003

Table 6-19. Frequency Stability Data (Band 5)

Band 5 Frequency Stability Measurements (Cont'd)

§2.1055, 22.355

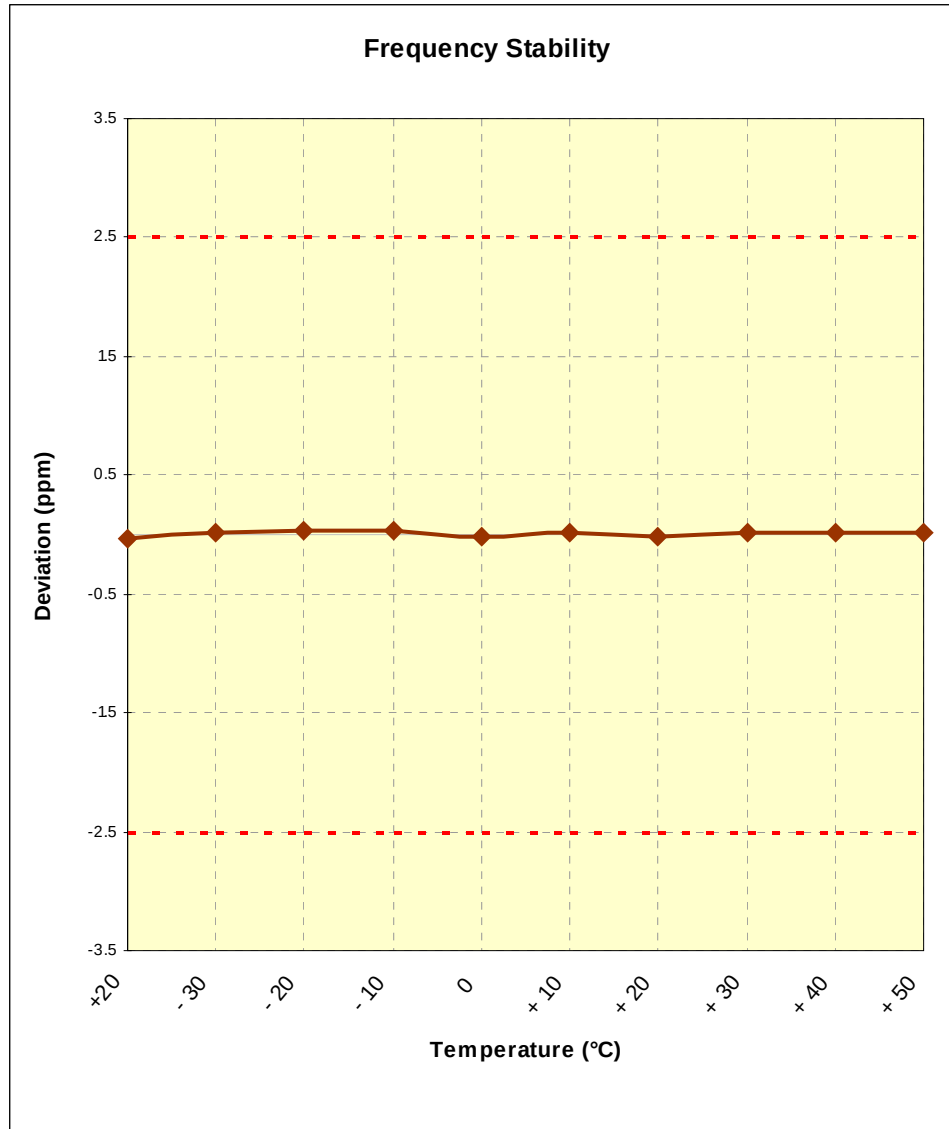


Figure 6-2. Frequency Stability Graph (Band 5)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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6.10 Band 4 Frequency Stability Measurements

§2.1055, 24.235, RSS-133 (6.3)

OPERATING FREQUENCY: 1,732,500,000 Hz

CHANNEL: 20175

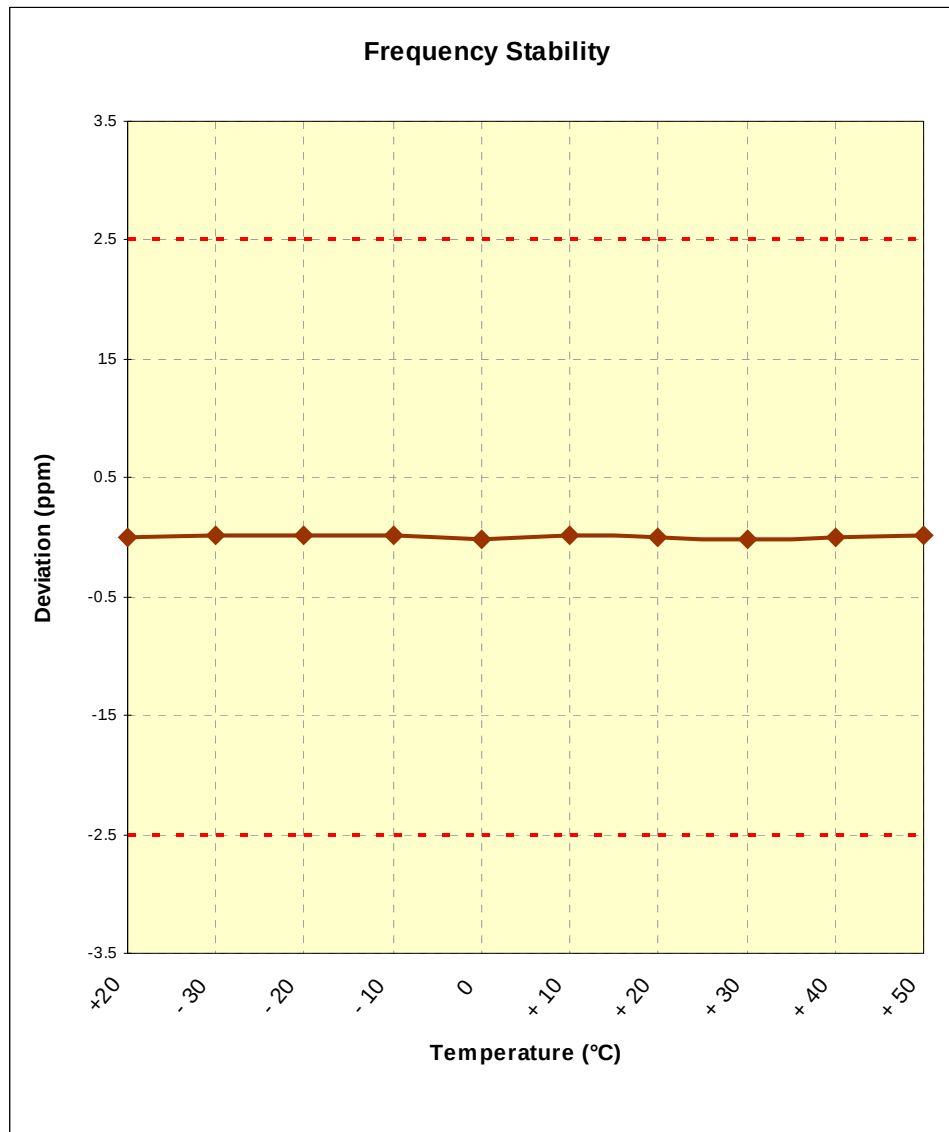
REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	1,732,499,987	-13	-0.000001
100 %		- 30	1,732,500,015	15	0.000001
100 %		- 20	1,732,500,021	21	0.000001
100 %		- 10	1,732,500,023	23	0.000001
100 %		0	1,732,499,983	-17	-0.000001
100 %		+ 10	1,732,500,019	19	0.000001
100 %		+ 20	1,732,499,990	-10	-0.000001
100 %		+ 30	1,732,499,981	-19	-0.000001
100 %		+ 40	1,732,500,014	14	0.000001
100 %		+ 50	1,732,500,018	18	0.000001
115 %	5.75	+ 20	1,732,500,022	22	0.000001
85 %	4.25	+ 20	1,732,499,979	-21	-0.000001

Table 6-20. Frequency Stability Data (Band 4)

Band 4 Frequency Stability Measurements (Cont'd)
§2.1055, 24.235, RSS-133 (6.3)



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6.11 Band 2 Frequency Stability Measurements

§2.1055, 22.355,

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 18900

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	1,879,999,980	-20	-0.000001
100 %		- 30	1,880,000,018	18	0.000001
100 %		- 20	1,880,000,021	21	0.000001
100 %		- 10	1,880,000,023	23	0.000001
100 %		0	1,879,999,983	-17	-0.000001
100 %		+ 10	1,880,000,019	19	0.000001
100 %		+ 20	1,879,999,986	-14	-0.000001
100 %		+ 30	1,879,999,981	-19	-0.000001
100 %		+ 40	1,880,000,018	18	0.000001
100 %		+ 50	1,880,000,018	18	0.000001
115 %	5.75	+ 20	1,880,000,022	22	0.000001
85 %	4.25	+ 20	1,879,999,979	-21	-0.000001

Table 6-21. Frequency Stability Data (Band 2)

Band 2 Frequency Stability Measurements (Cont'd)

§2.1055, 22.355,

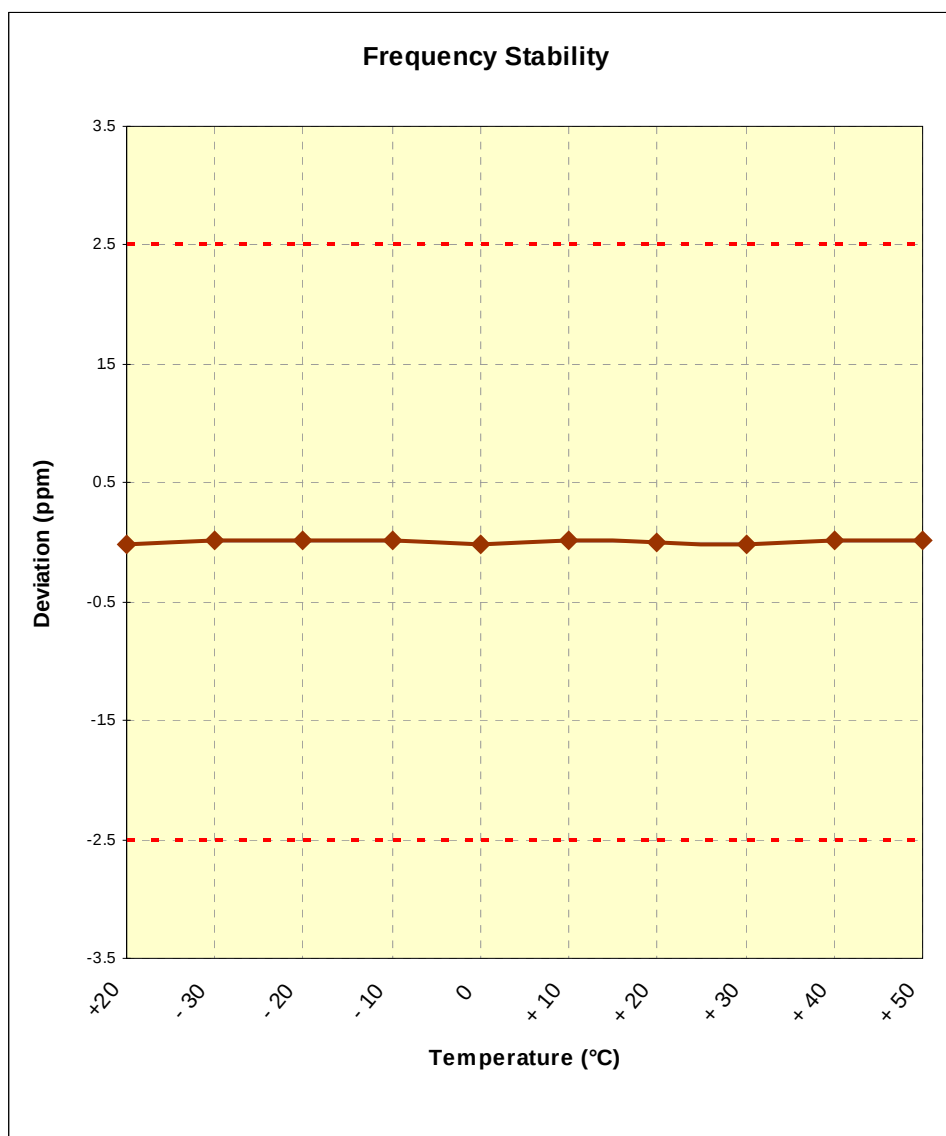
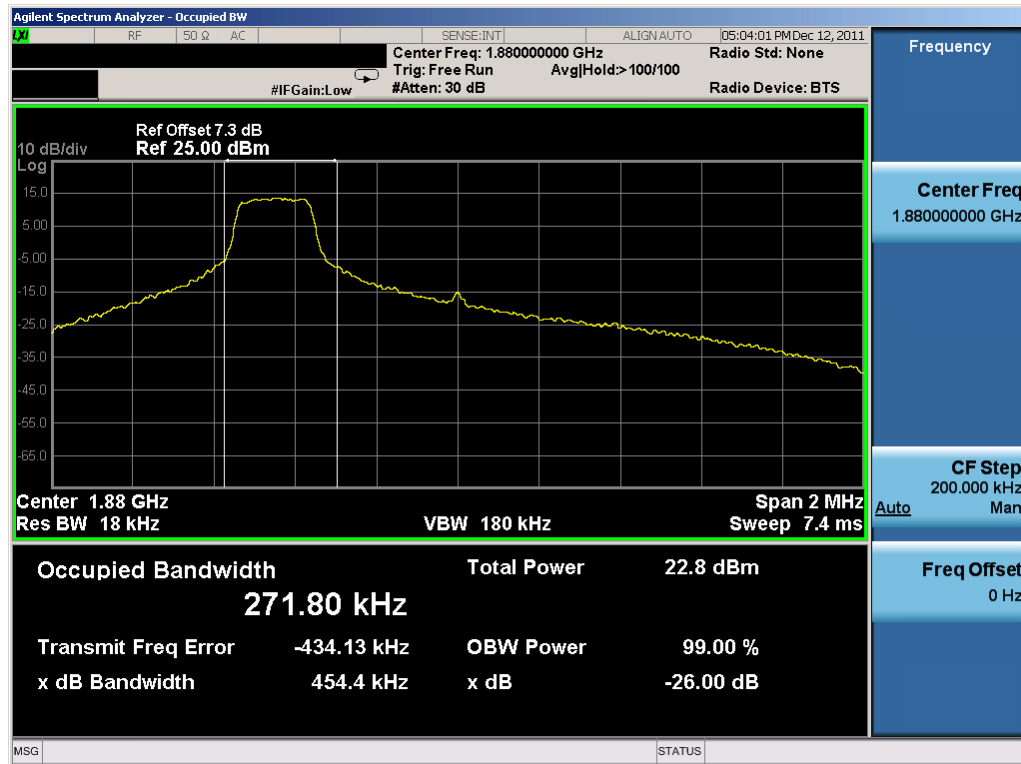


Figure 6-3. Frequency Stability Graph (Band 2)

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7.0 PLOT(S) OF EMISSIONS

Note: For all band edge emissions who spurious limits are subject to the rules of Parts 22, 24, and 27 (Bands 5, 2, and 4, respectively, but excluding Band 12), a resolution bandwidth of at least 1% of the emission bandwidth is used to measure the band edge. Since 1 RB allocation represents the worst case band edge emission, the emission bandwidth at 1 RB is approximately 454 kHz, as shown in the plot below. Thus, for all band edge emissions, a RBW of at least 10 kHz is used to demonstrate compliance at the band edge with the exception of band edge emissions for Band 12 operation whose emission limit specified under 27.53(g) requires a 30kHz RBW.

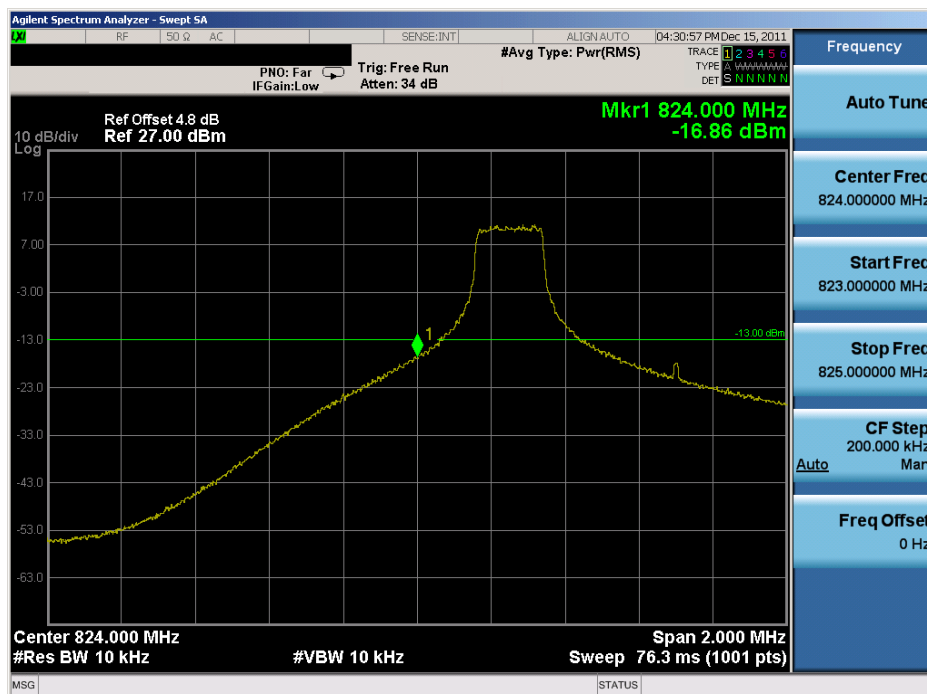


Plot 7-1. Emission Bandwidth for 1 Resource Block

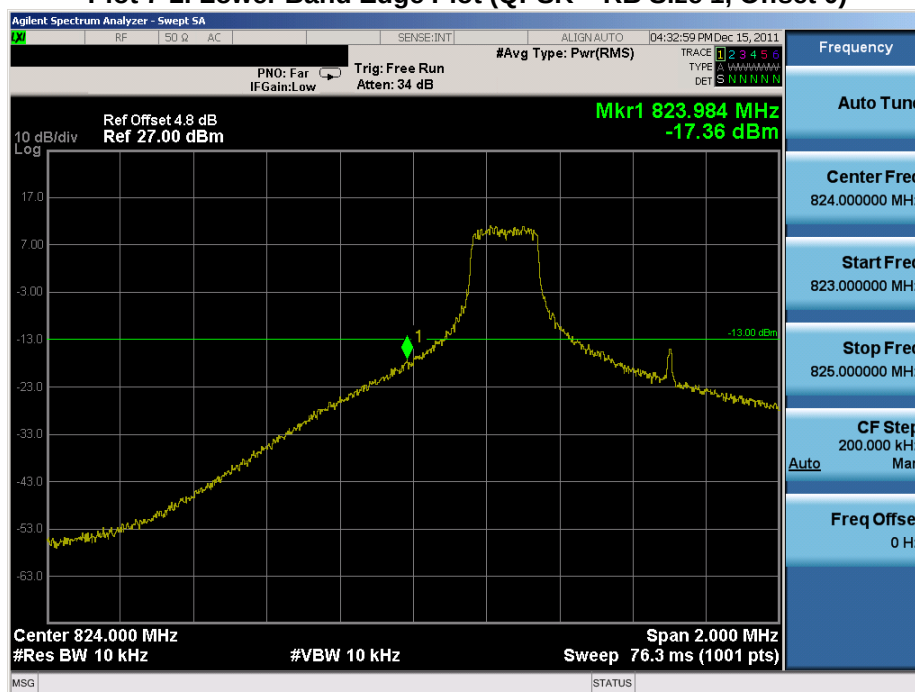
FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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BAND 5

1.4MHz

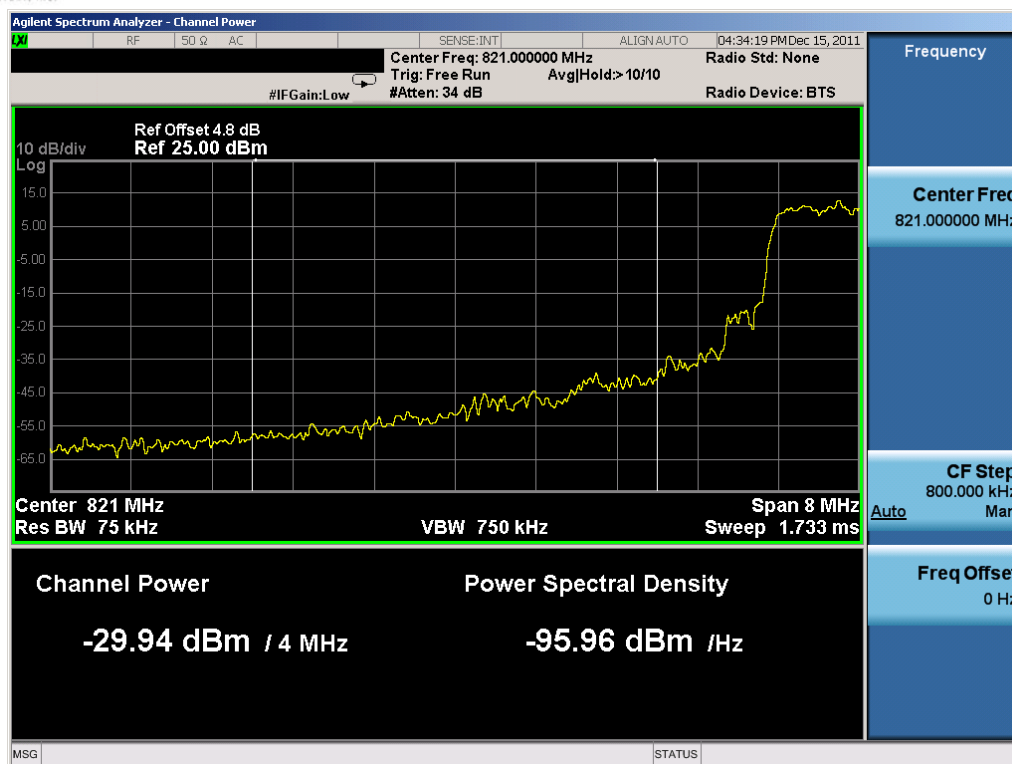


Plot 7-2. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)

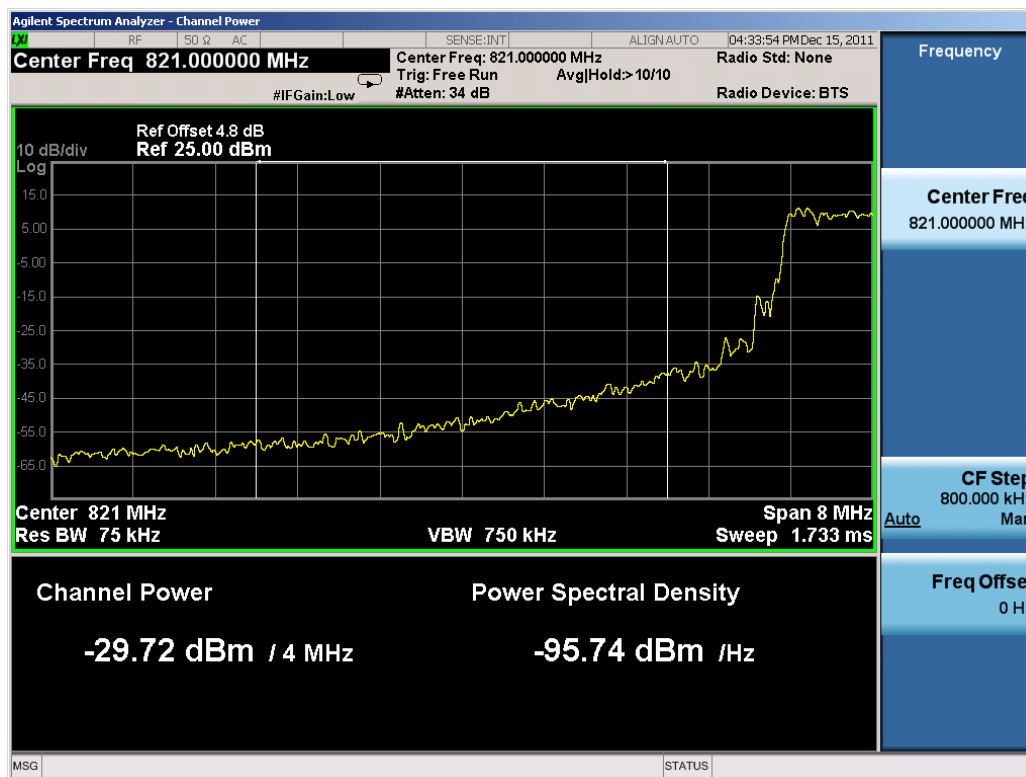


Plot 7-3. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
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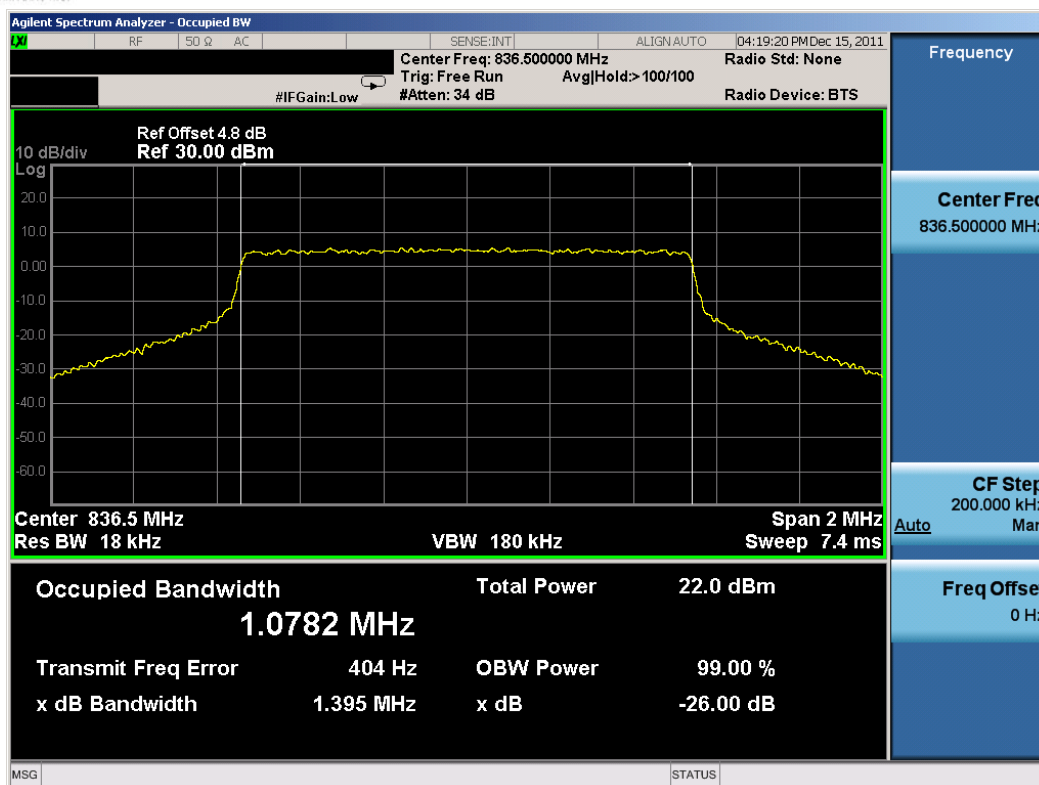


Plot 7-4. Lower Emission Mask (819 – 823MHz) Plot (QPSK – RB Size 6)

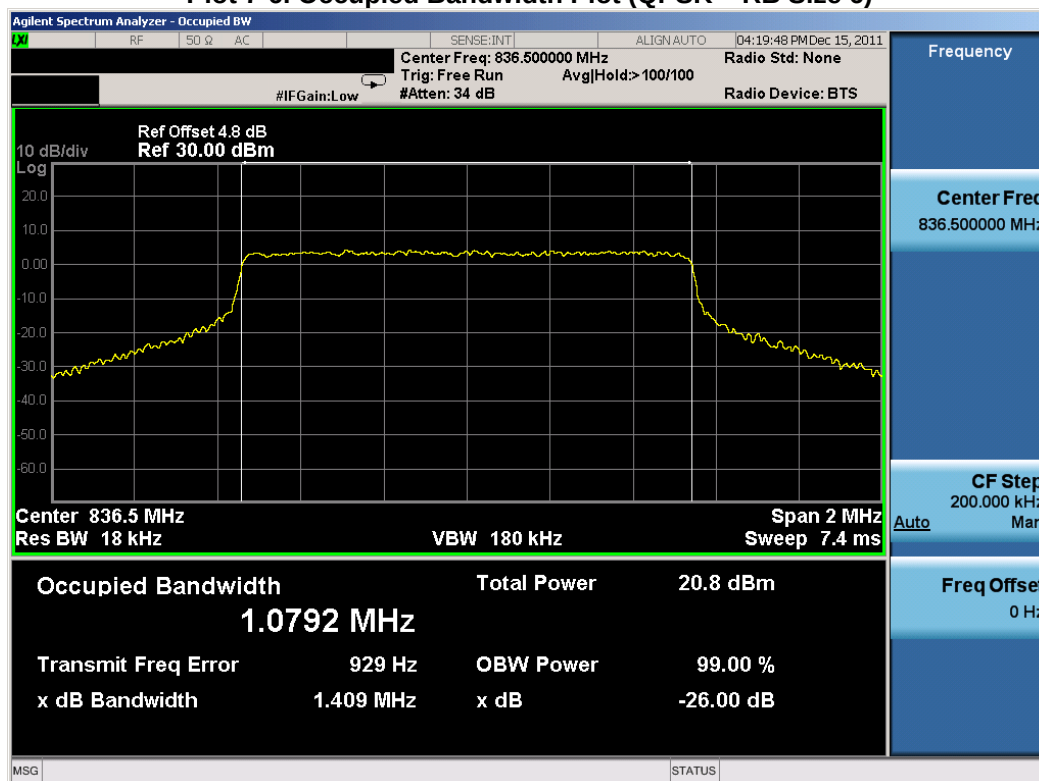


Plot 7-5. Lower Emission Mask (819 – 823MHz) Plot (16-QAM – RB Size 6)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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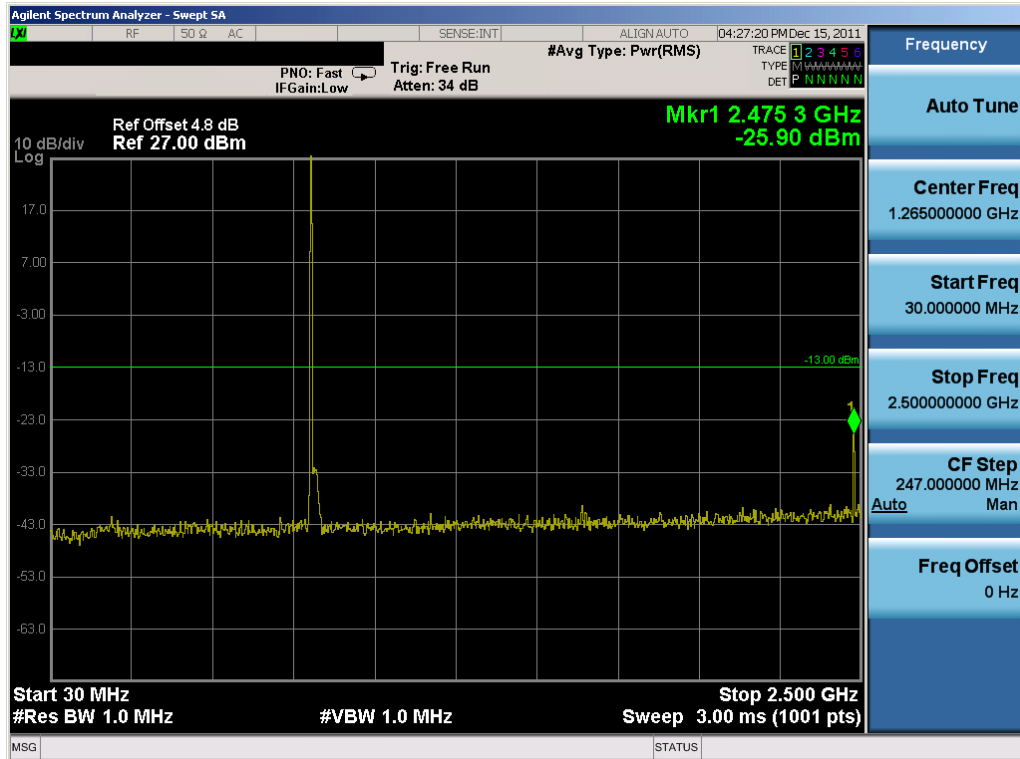


Plot 7-6. Occupied Bandwidth Plot (QPSK – RB Size 6)

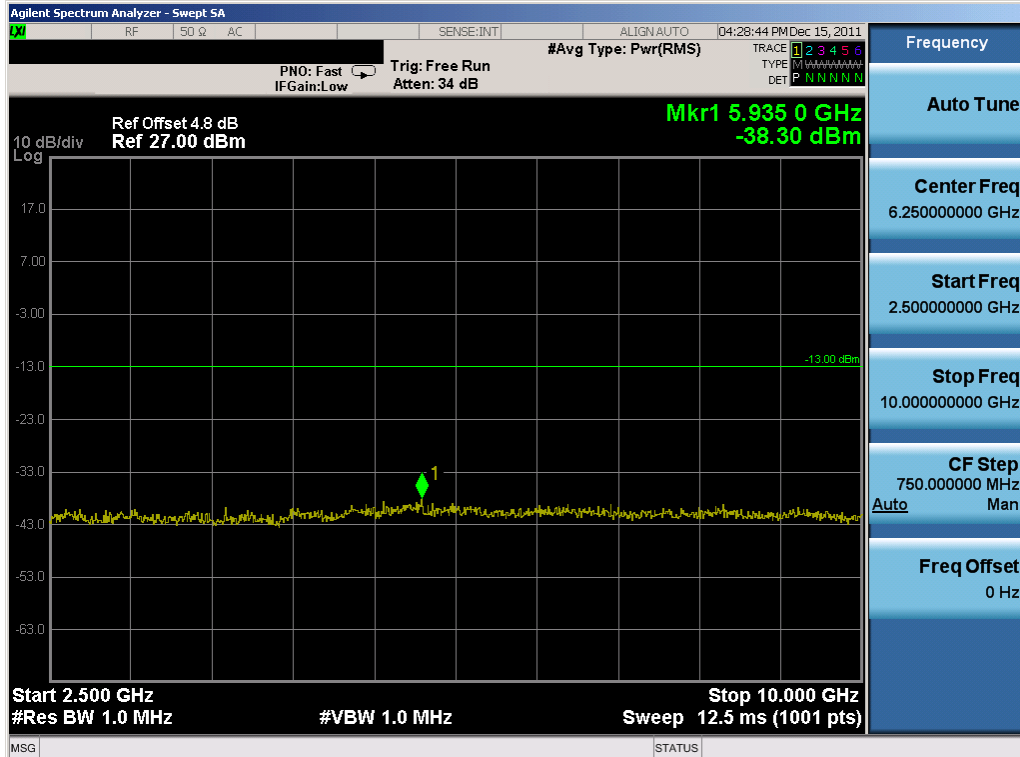


Plot 7-7. Occupied Bandwidth Plot (16-QAM – RB Size 6)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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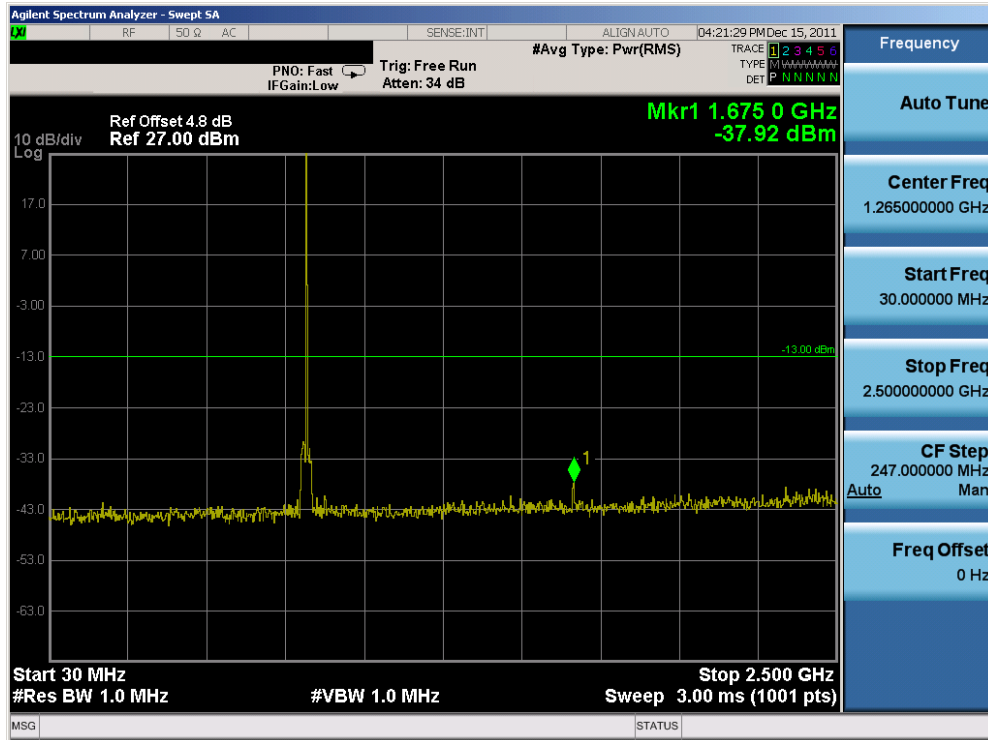


Plot 7-8. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Low Channel)

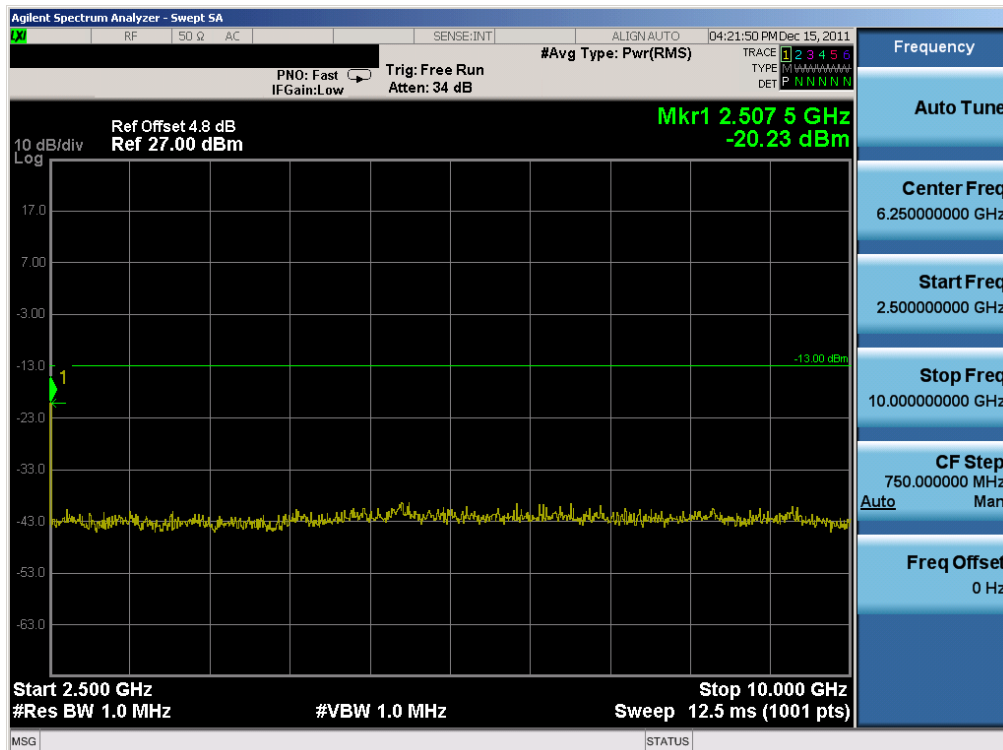


Plot 7-9. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Low Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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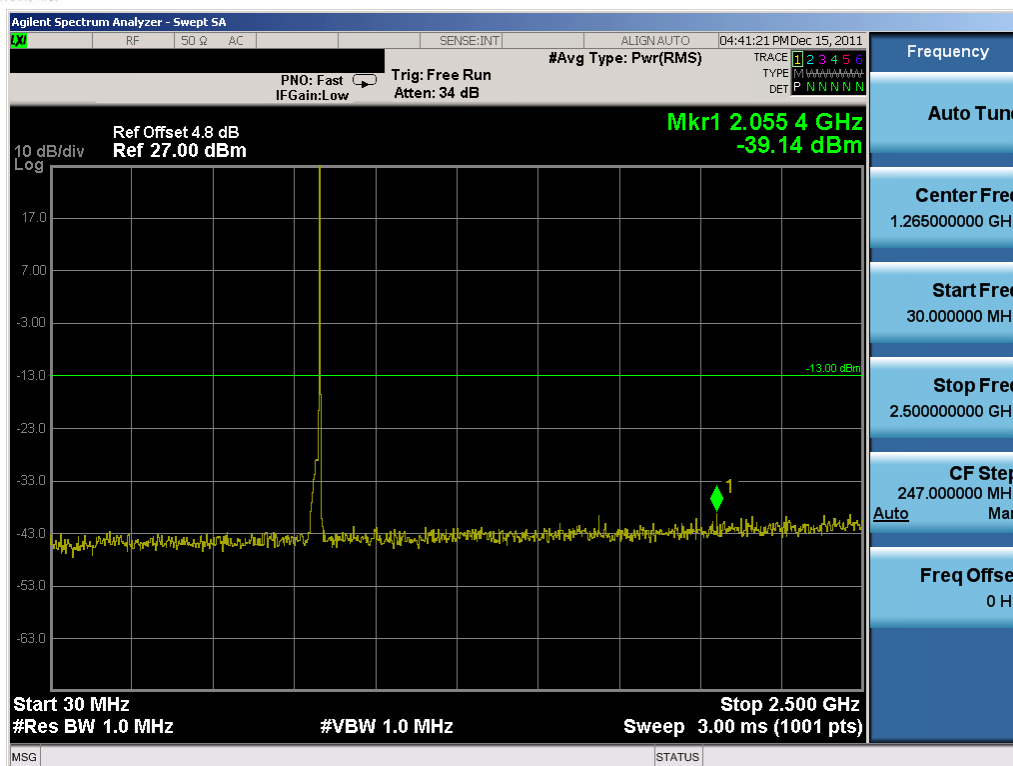


Plot 7-10. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Mid Channel)

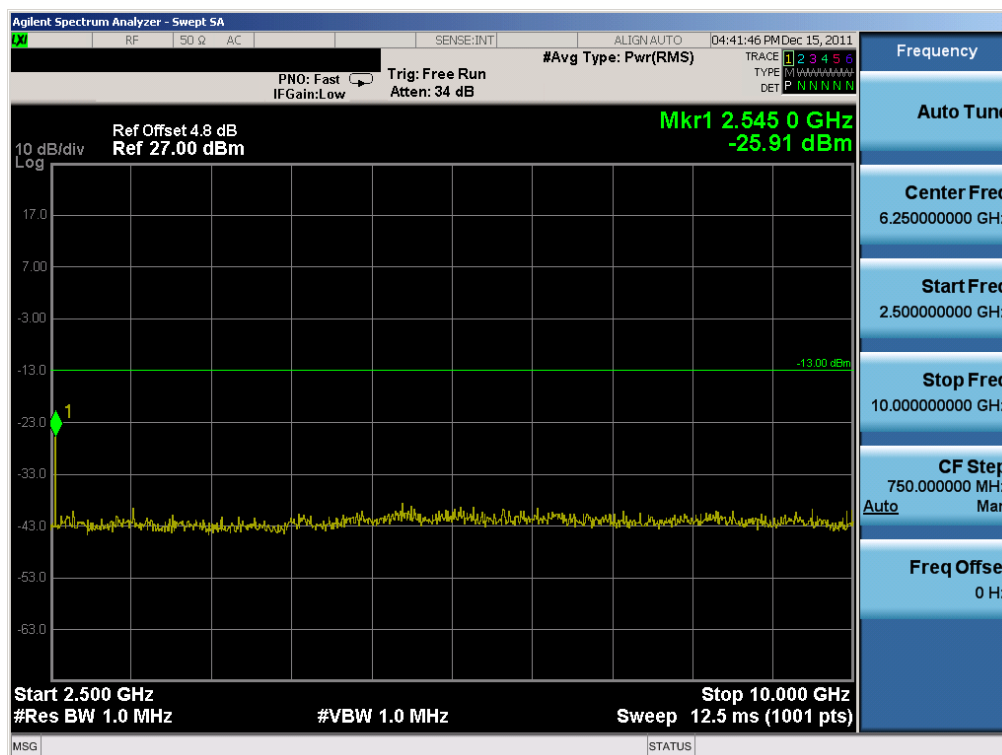


Plot 7-11. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Mid Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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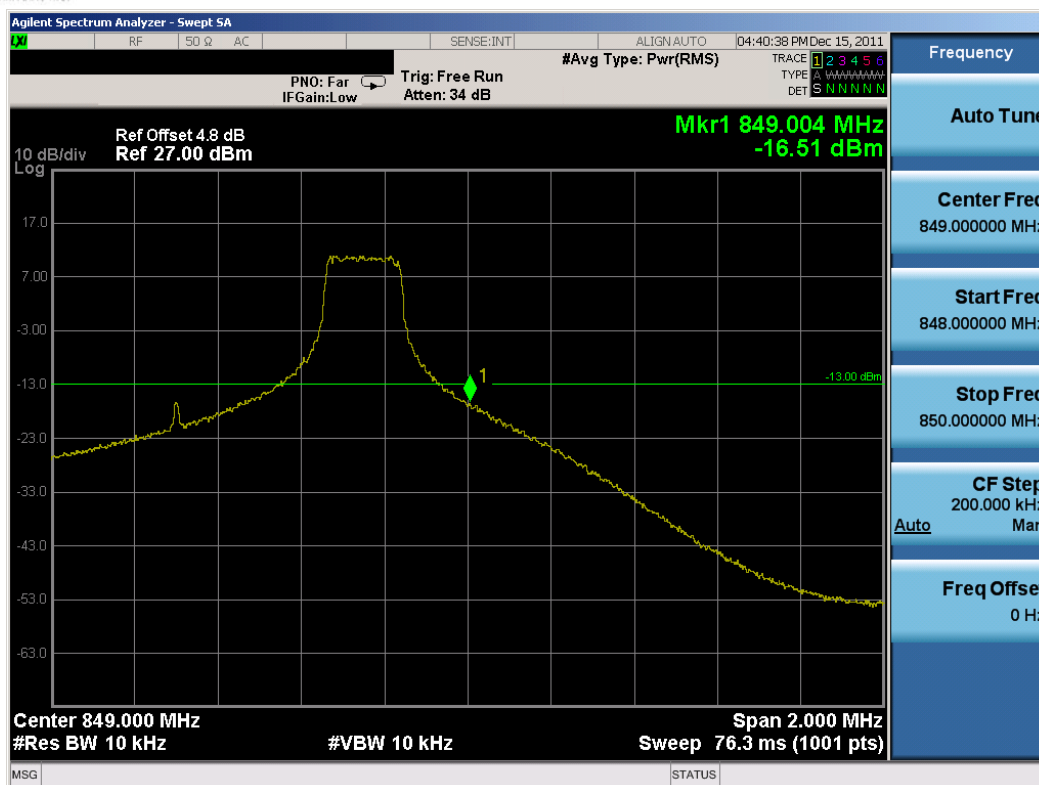


Plot 7-12. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – High Channel)

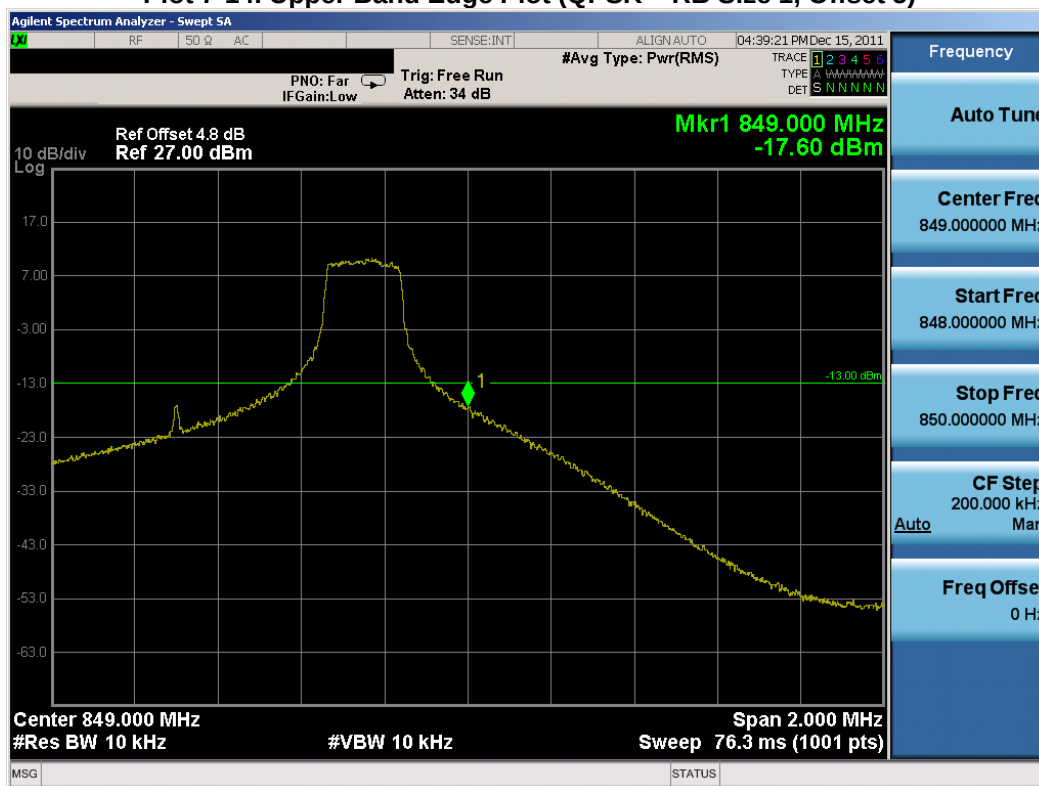


Plot 7-13. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – High Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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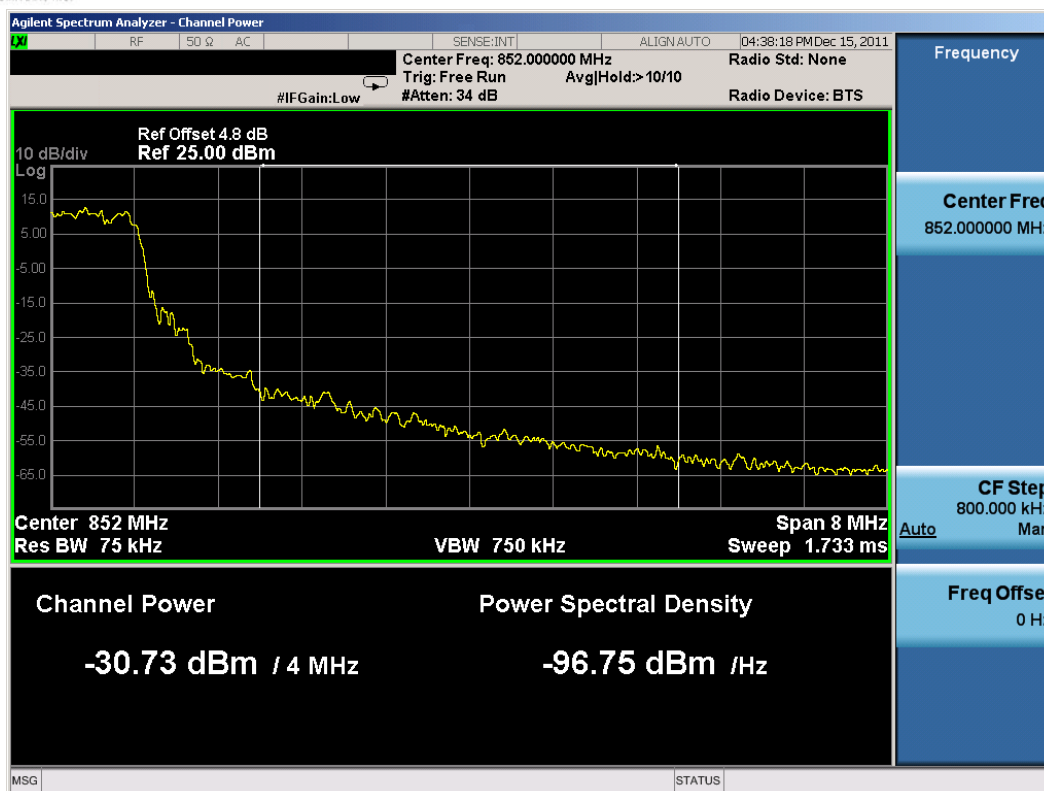


Plot 7-14. Upper Band Edge Plot (QPSK – RB Size 1, Offset 5)

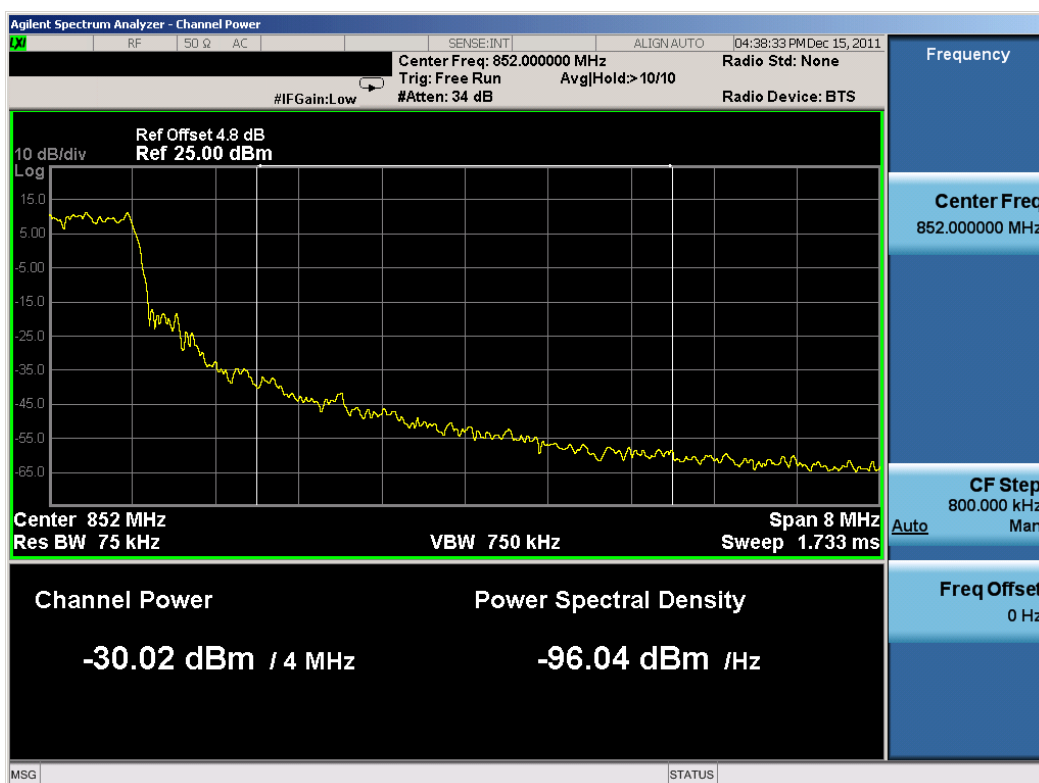


Plot 7-15. Upper Band Edge Plot (16-QAM – RB Size 1, Offset 5)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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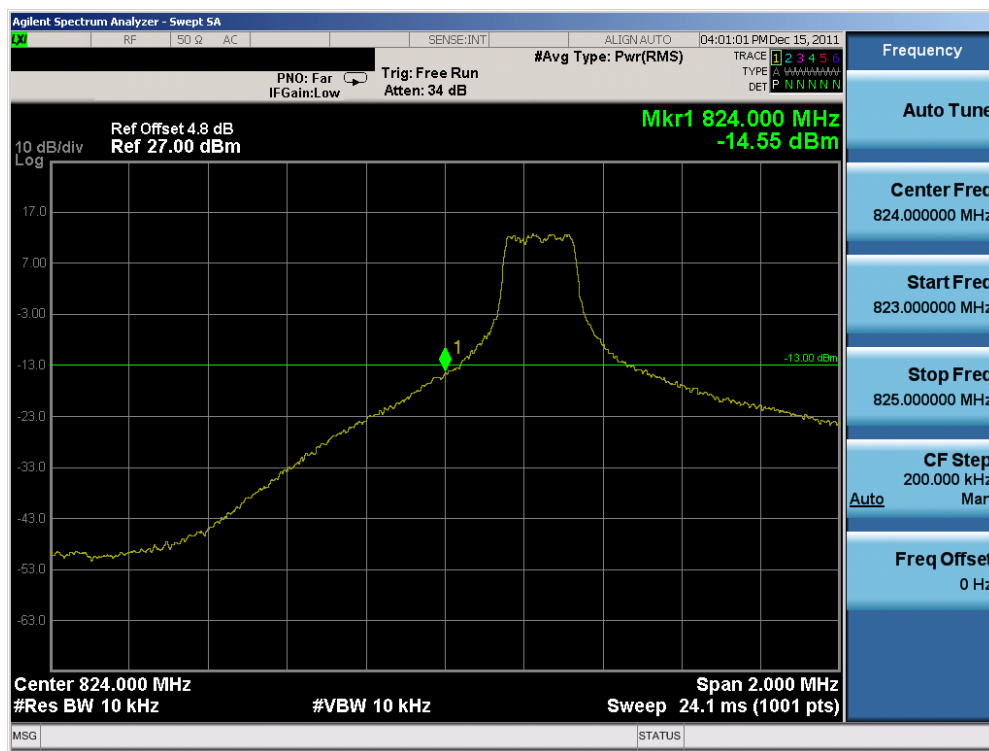
Plot 7-16. Upper Emission Mask (850 – 854MHz) Plot (QPSK – RB Size 6)



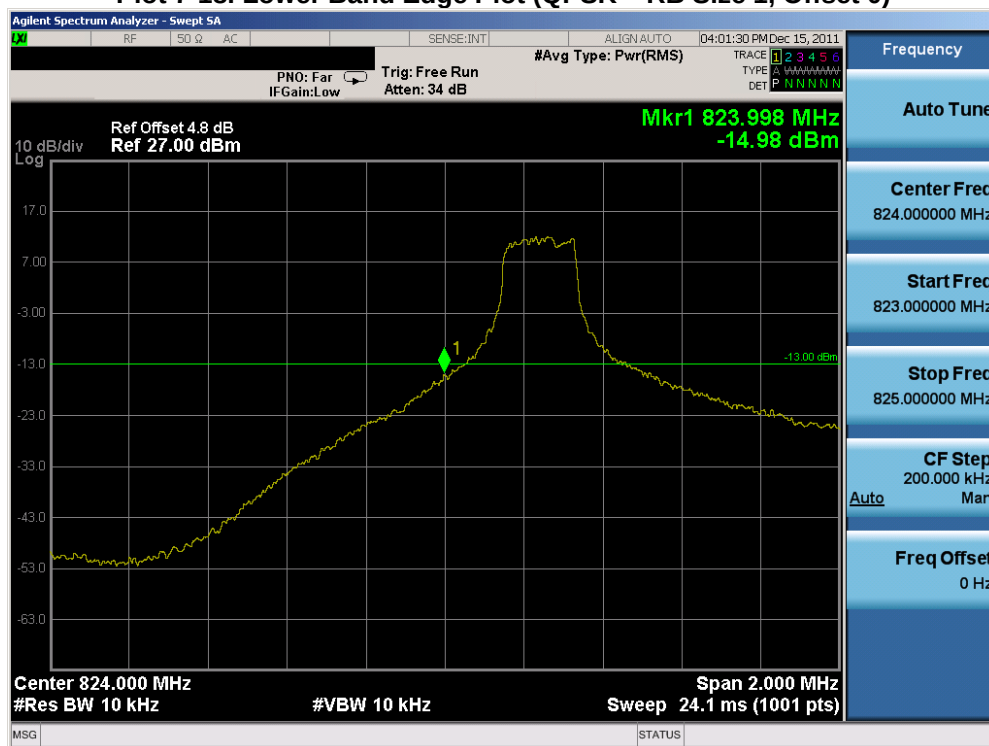
Plot 7-17. Upper Emission Mask (850 – 854MHz) Plot (16-QAM – RB Size 6)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 43 of 125

3MHz

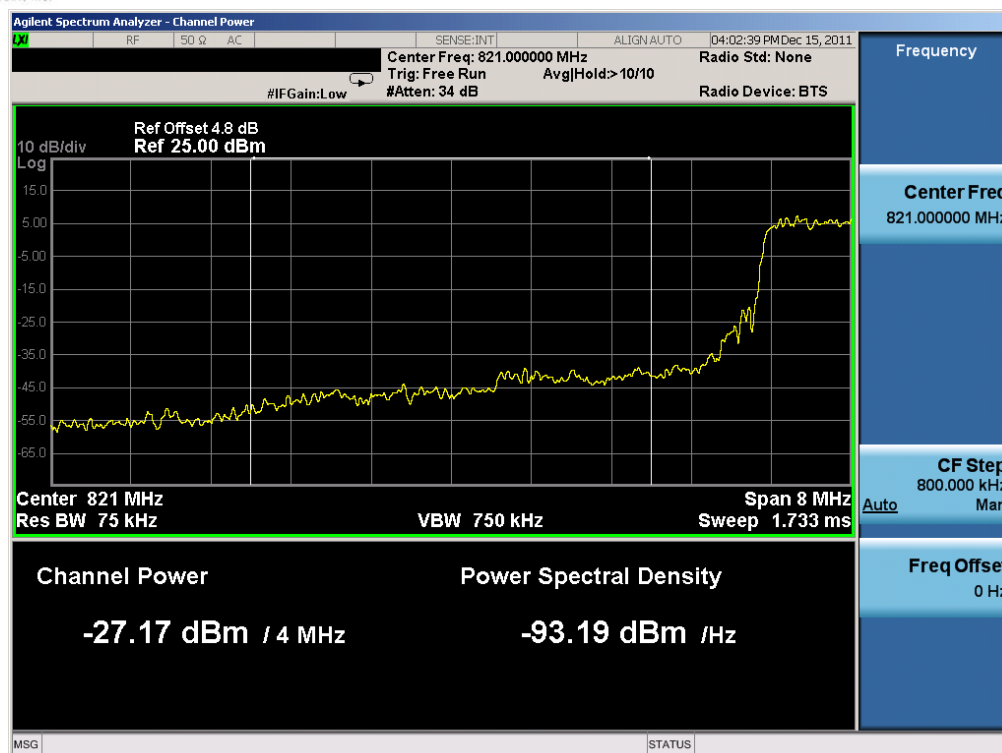


Plot 7-18. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)



Plot 7-19. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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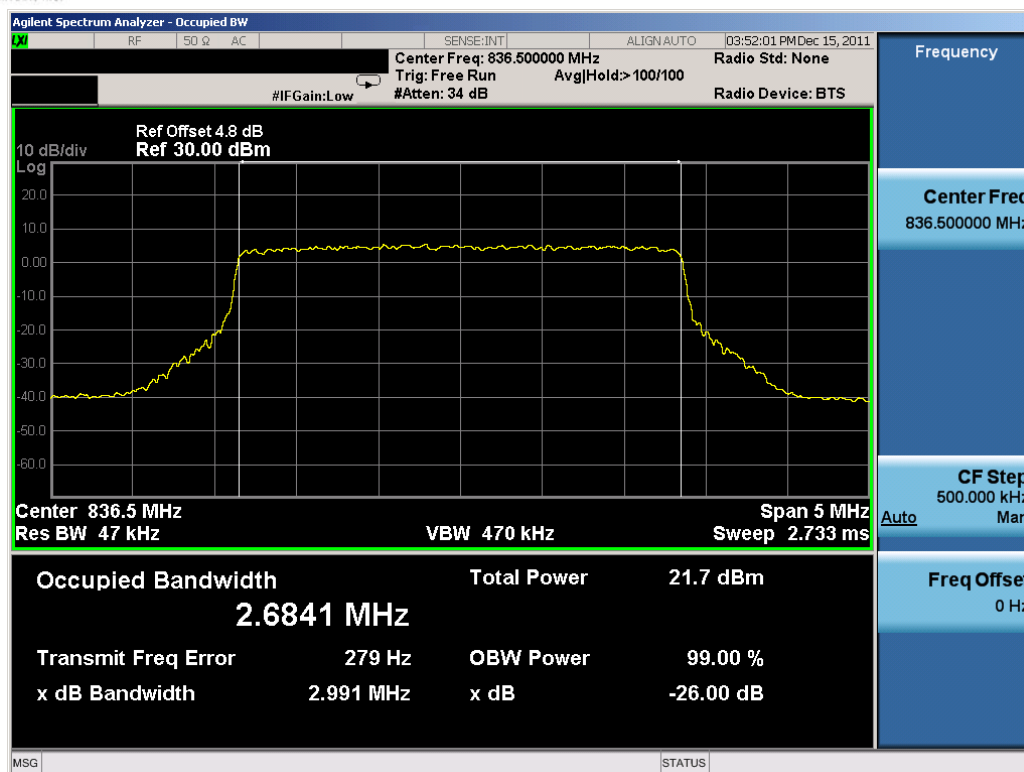


Plot 7-20. Lower Emission Mask (819 – 823MHz) Plot (QPSK – RB Size 15)

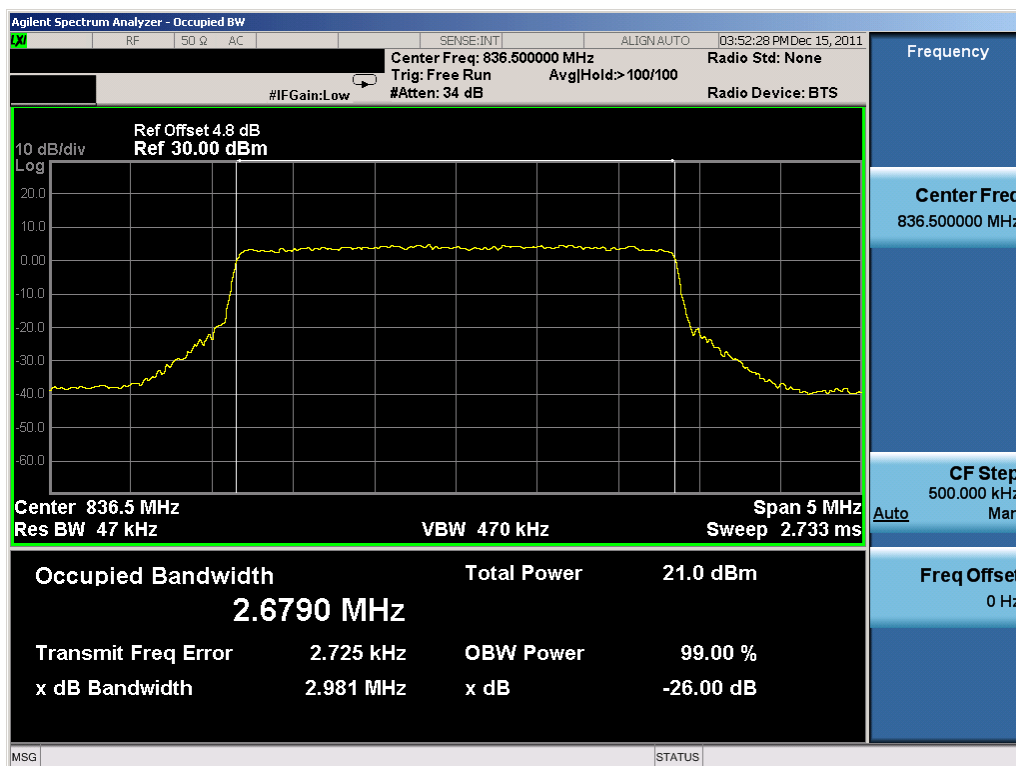


Plot 7-21. Lower Emission Mask (819 – 823MHz) Plot (16-QAM – RB Size 15)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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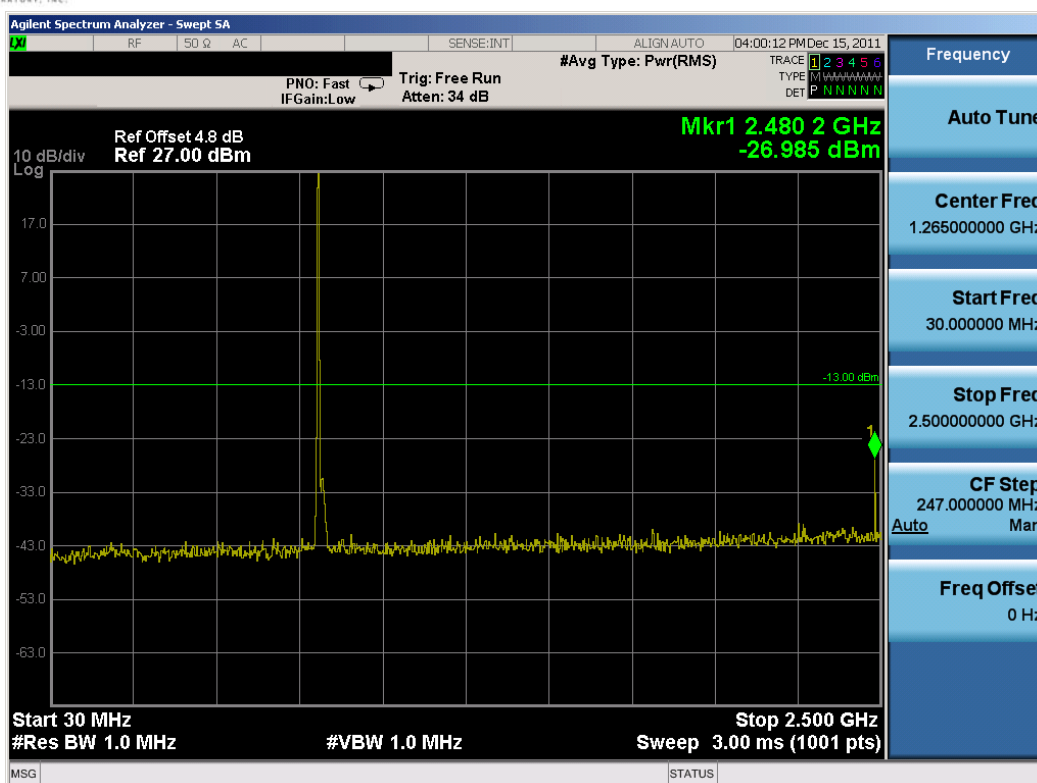


Plot 7-22. Occupied Bandwidth Plot (QPSK – RB Size 15)

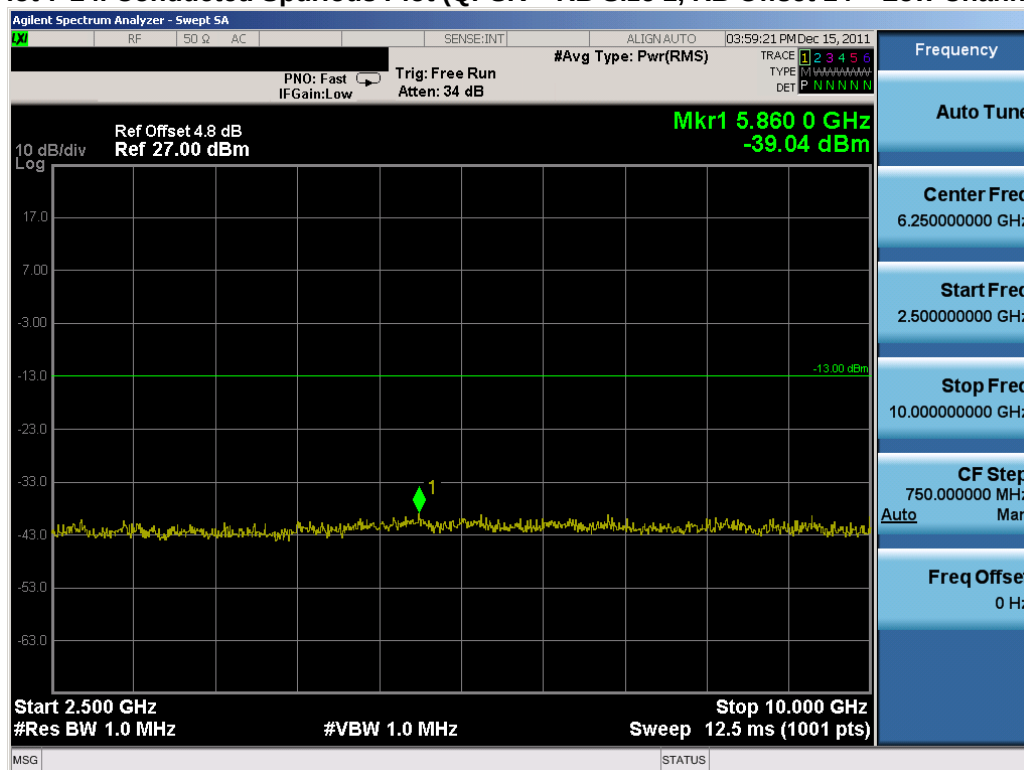


Plot 7-23. Occupied Bandwidth Plot (16-QAM – RB Size 15)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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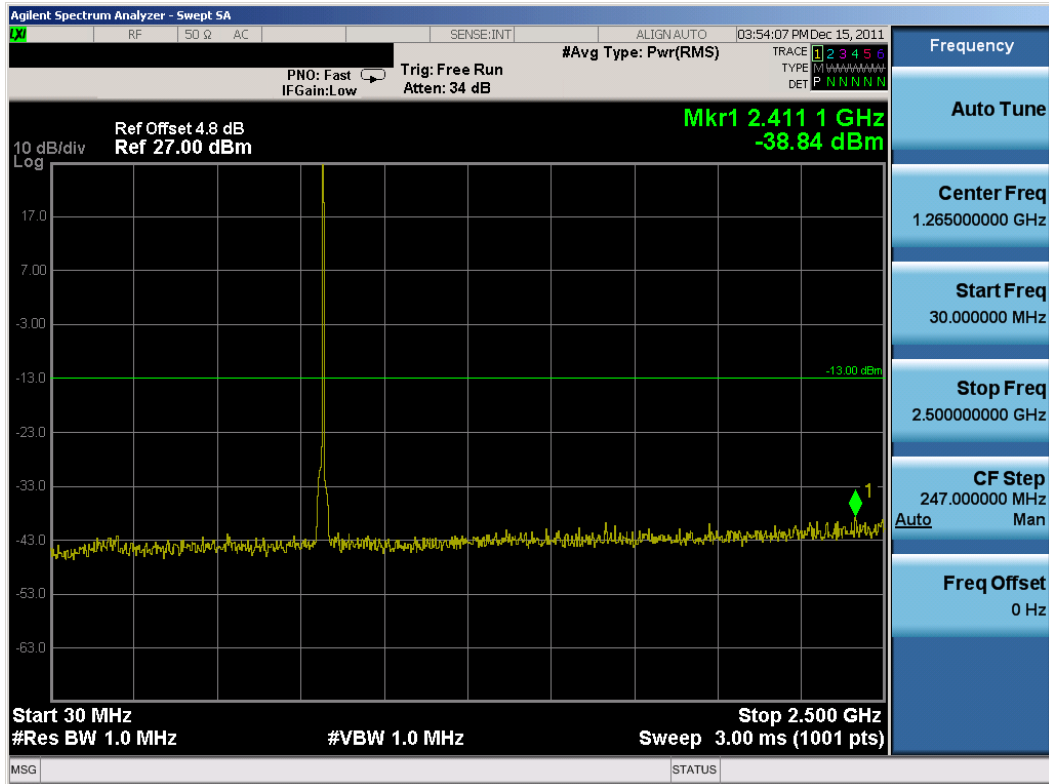


Plot 7-24. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Low Channel)

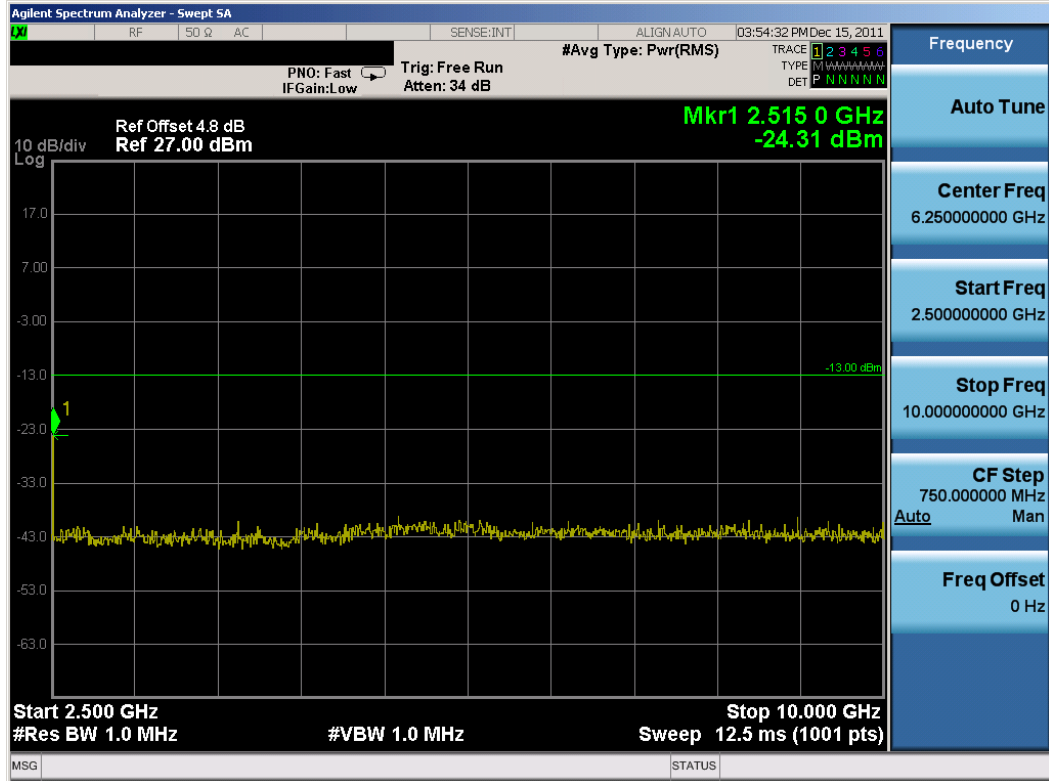


Plot 7-25. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Low Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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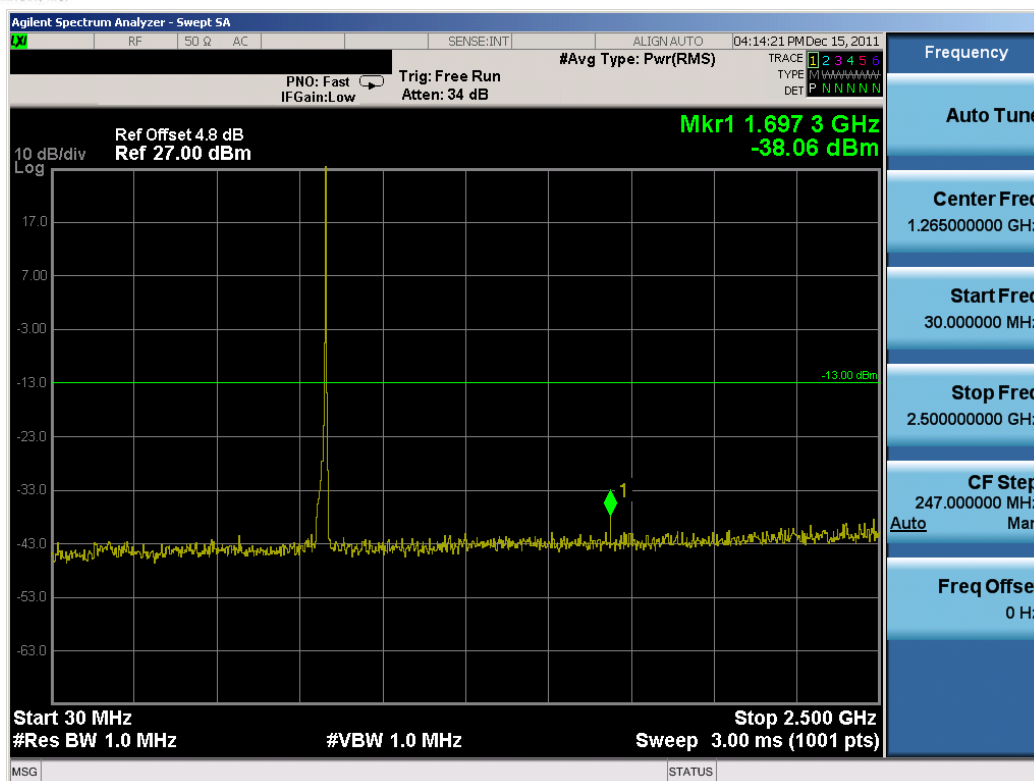


Plot 7-26. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Mid Channel)

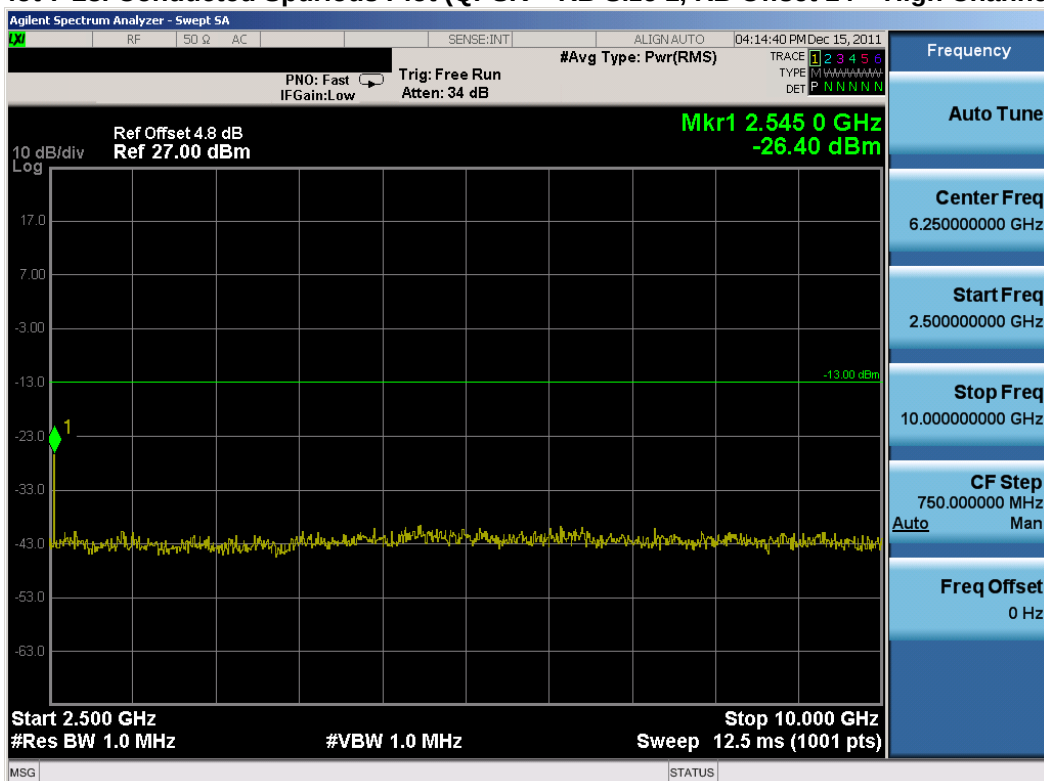


Plot 7-27. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Mid Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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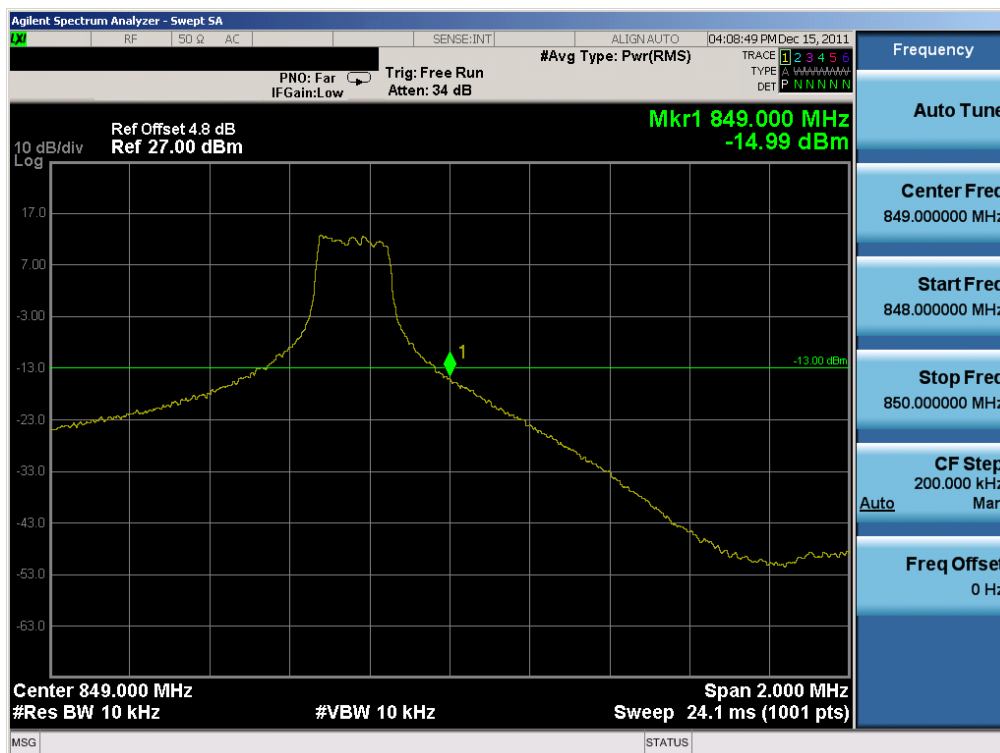


Plot 7-28. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – High Channel)

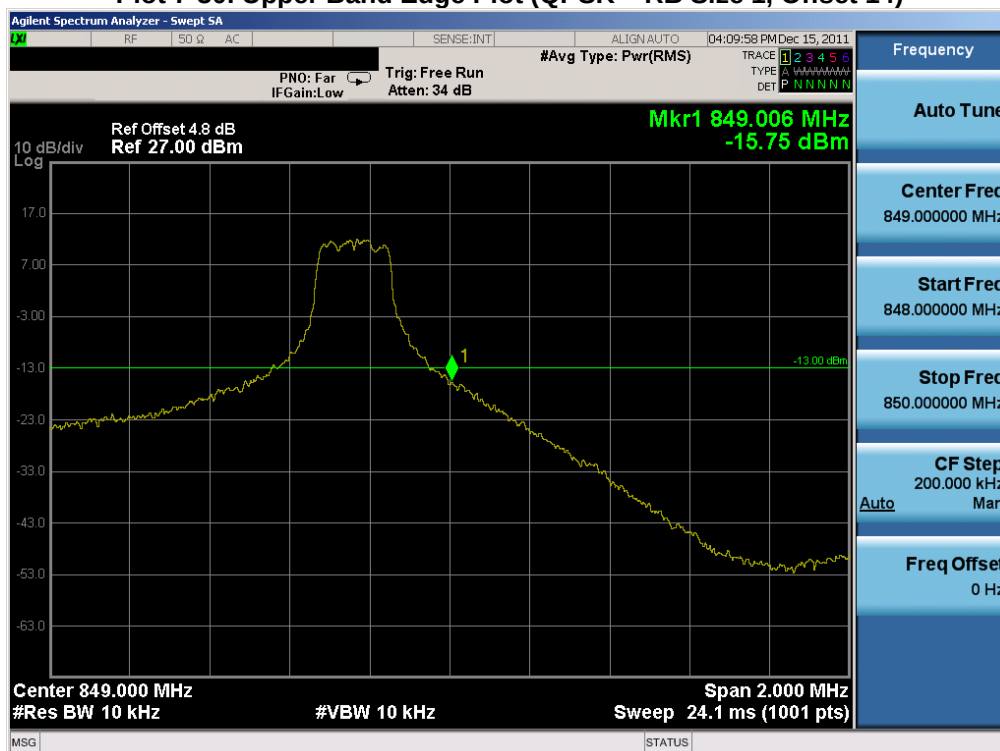


Plot 7-29. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – High Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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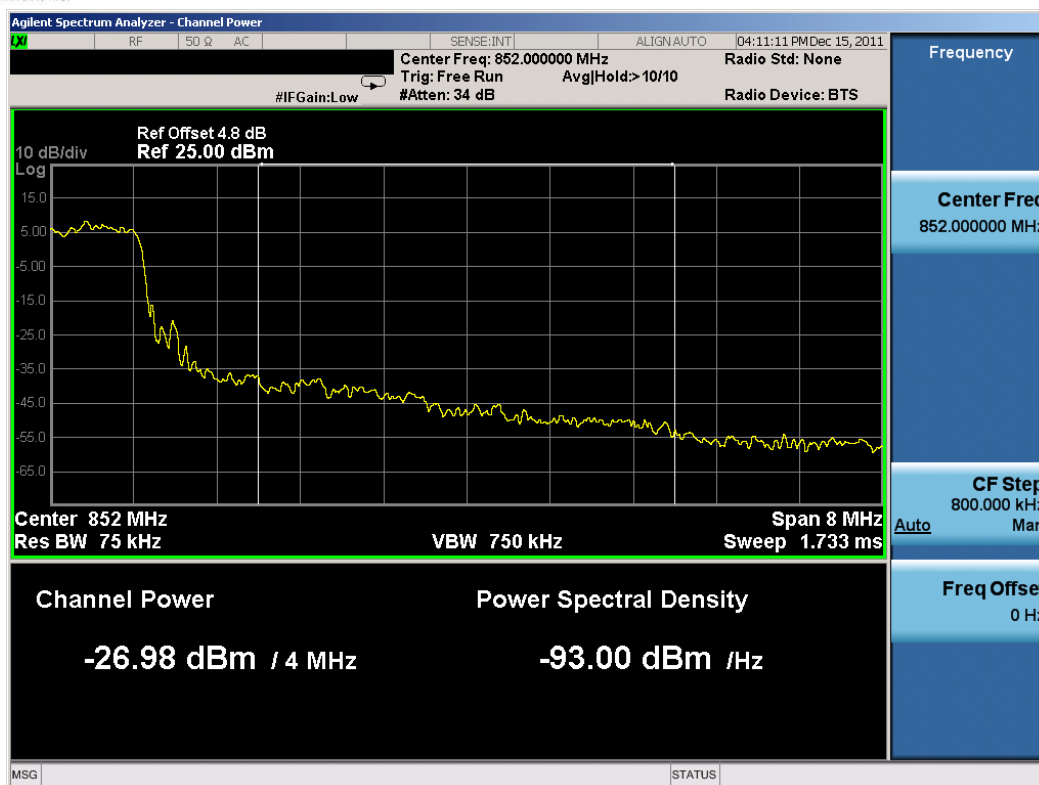


Plot 7-30. Upper Band Edge Plot (QPSK - RB Size 1, Offset 14)



Plot 7-31. Upper Band Edge Plot (16-QAM - RB Size 1, Offset 14)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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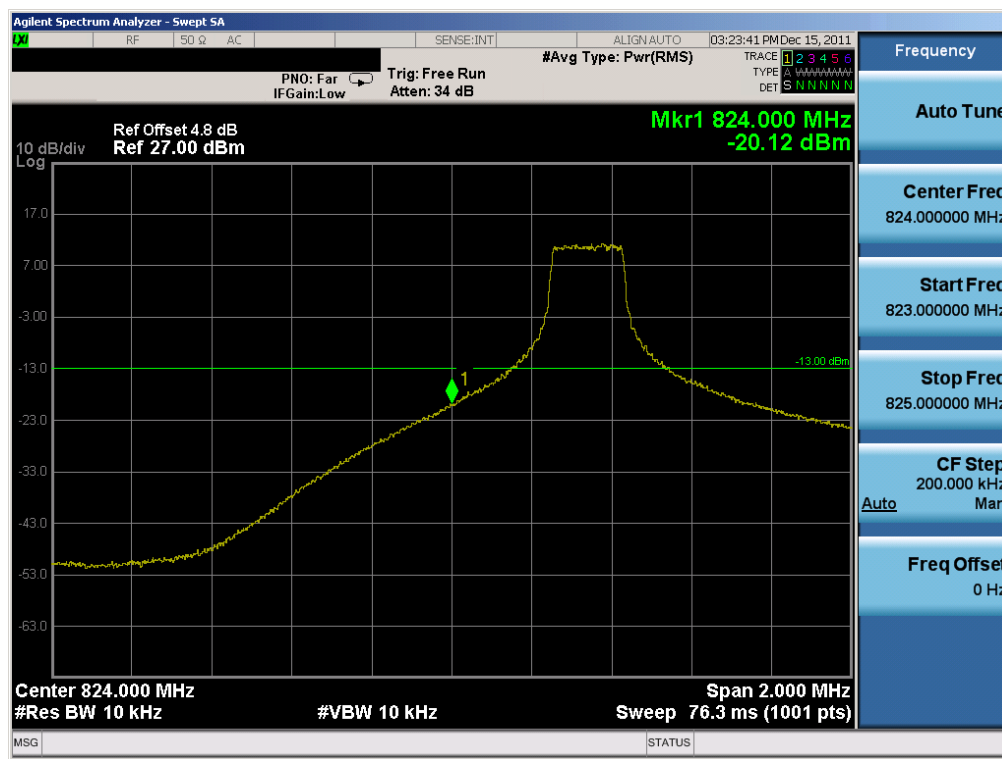
Plot 7-32. Upper Emission Mask (850 – 854MHz) Plot (QPSK – RB Size 15)



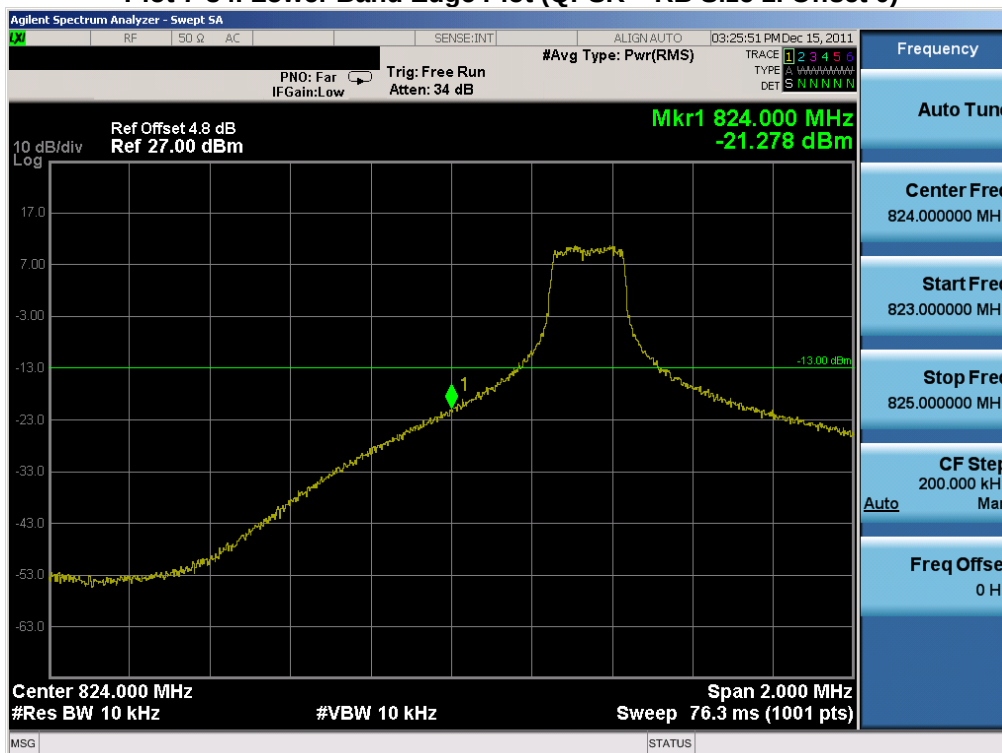
Plot 7-33. Upper Emission Mask (850 – 854MHz) Plot (16-QAM – RB Size 15)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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5MHz



Plot 7-34. Lower Band Edge Plot (QPSK – RB Size 1. Offset 0)

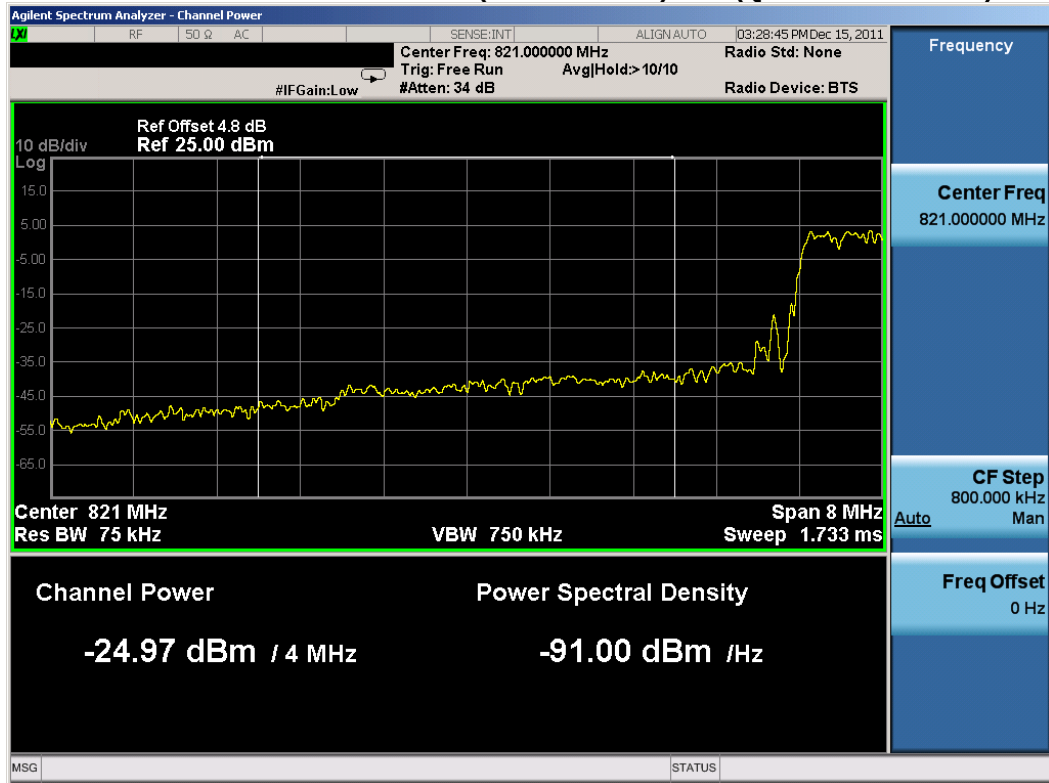


Plot 7-35. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 52 of 125

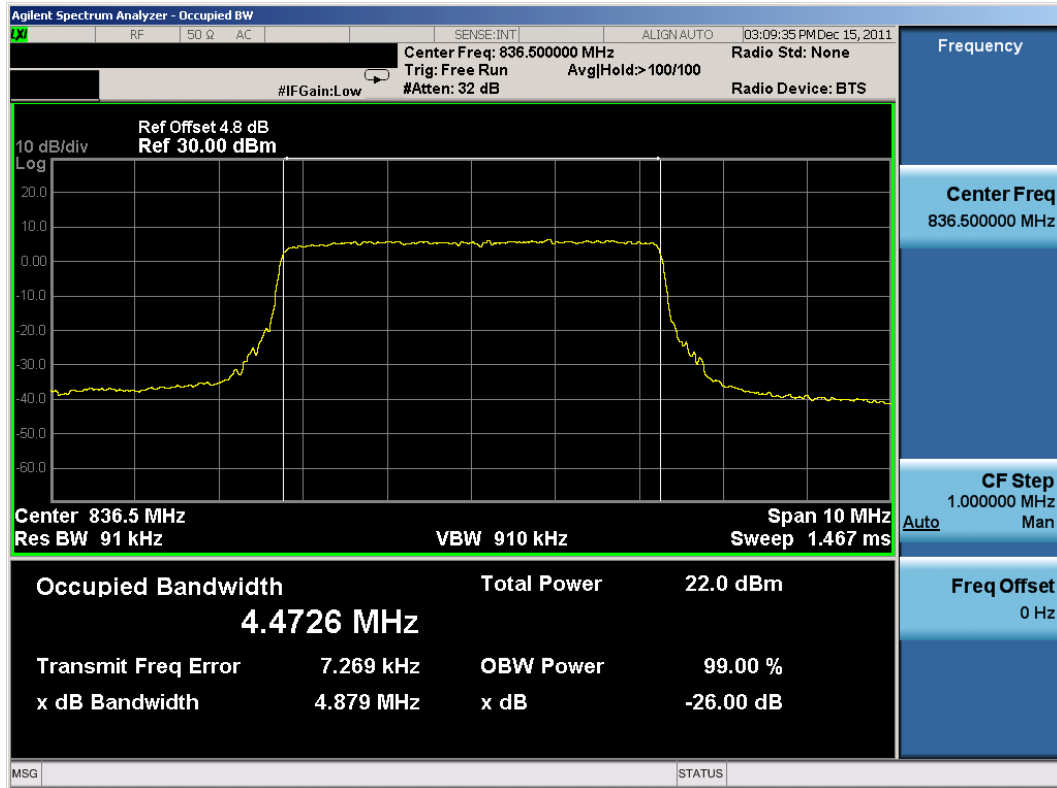


Plot 7-36. Lower Emission Mask (819 – 823MHz) Plot (QPSK – RB Size 25)

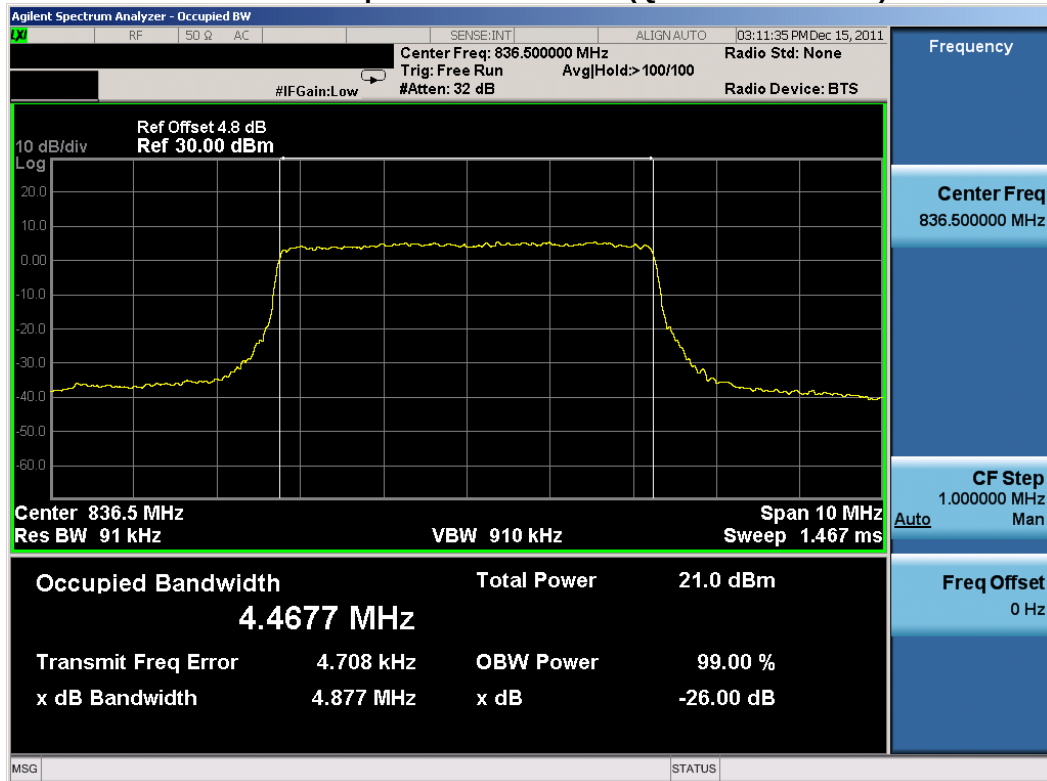


Plot 7-37. Lower Emission Mask (819 – 823MHz) Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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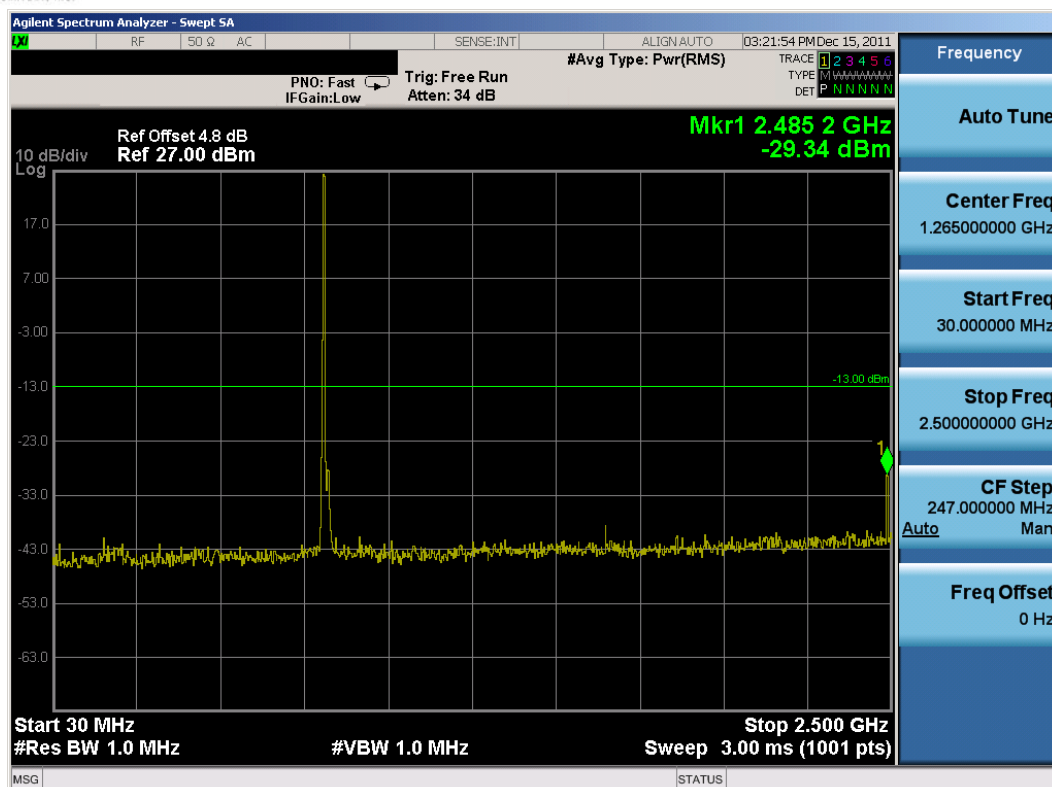


Plot 7-38. Occupied Bandwidth Plot (QPSK – RB Size 25)

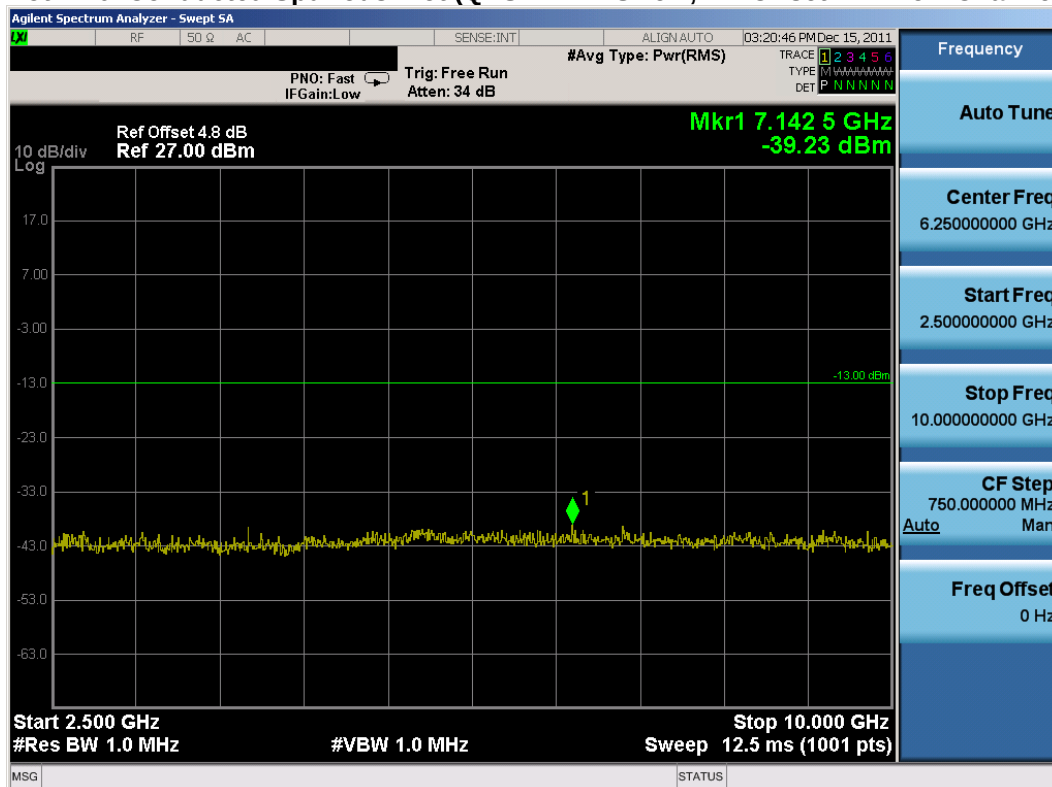


Plot 7-39. Occupied Bandwidth Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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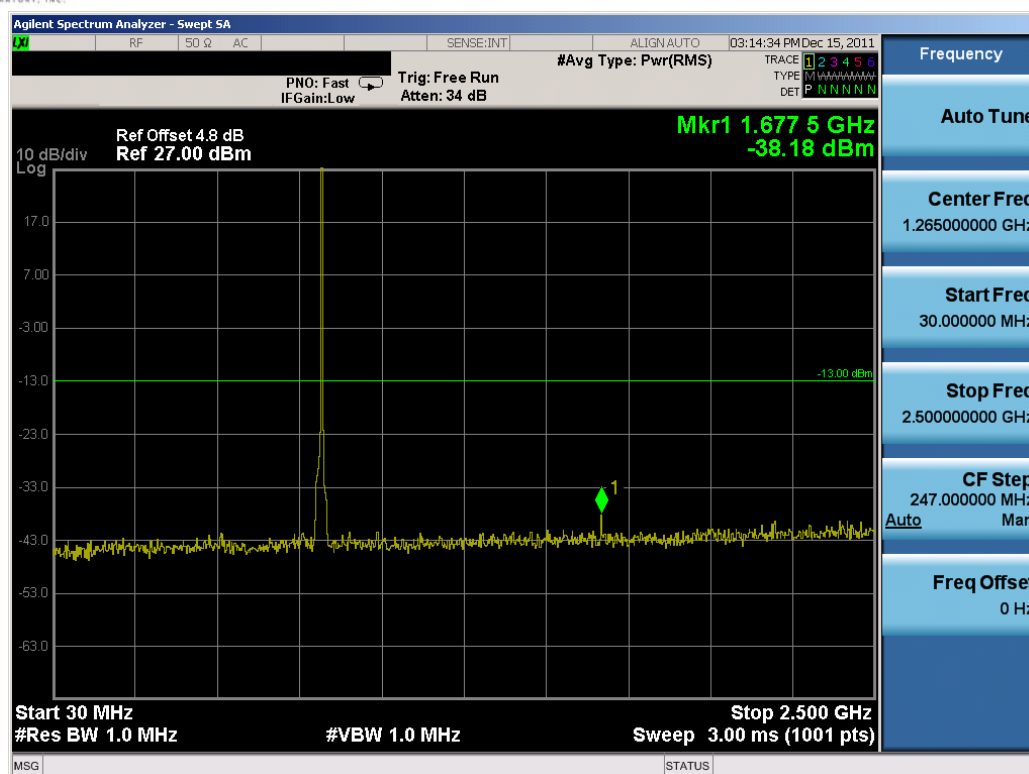


Plot 7-40. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

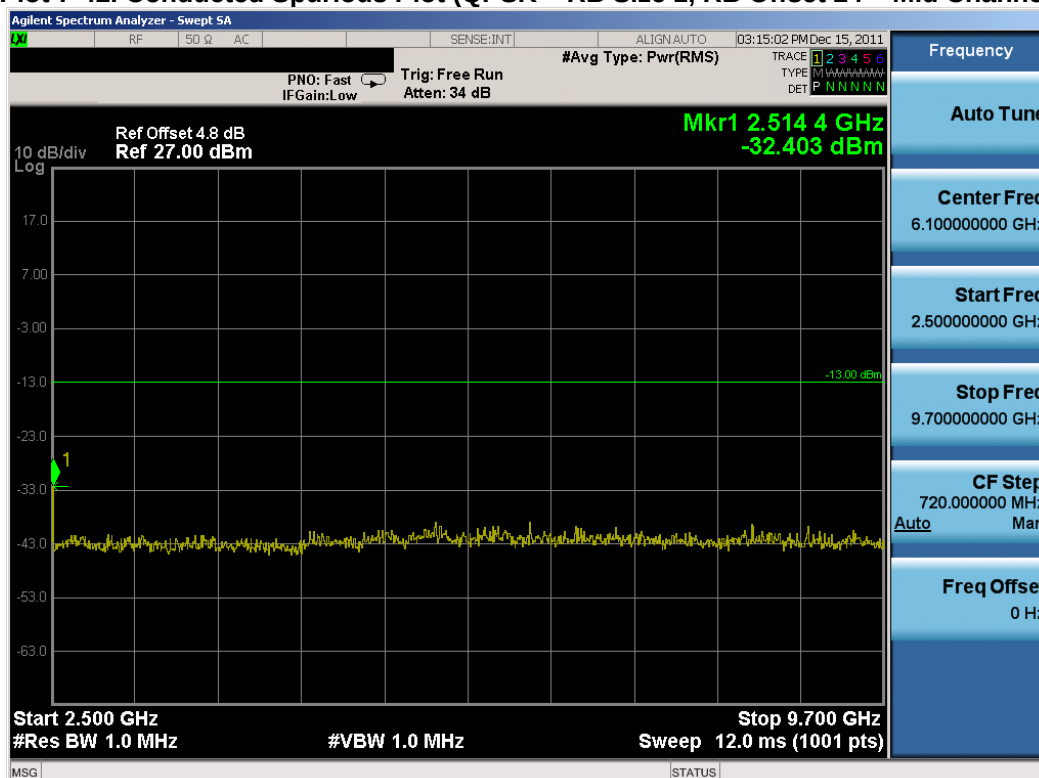


Plot 7-41. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

FCC ID: A3LSCHI905U			FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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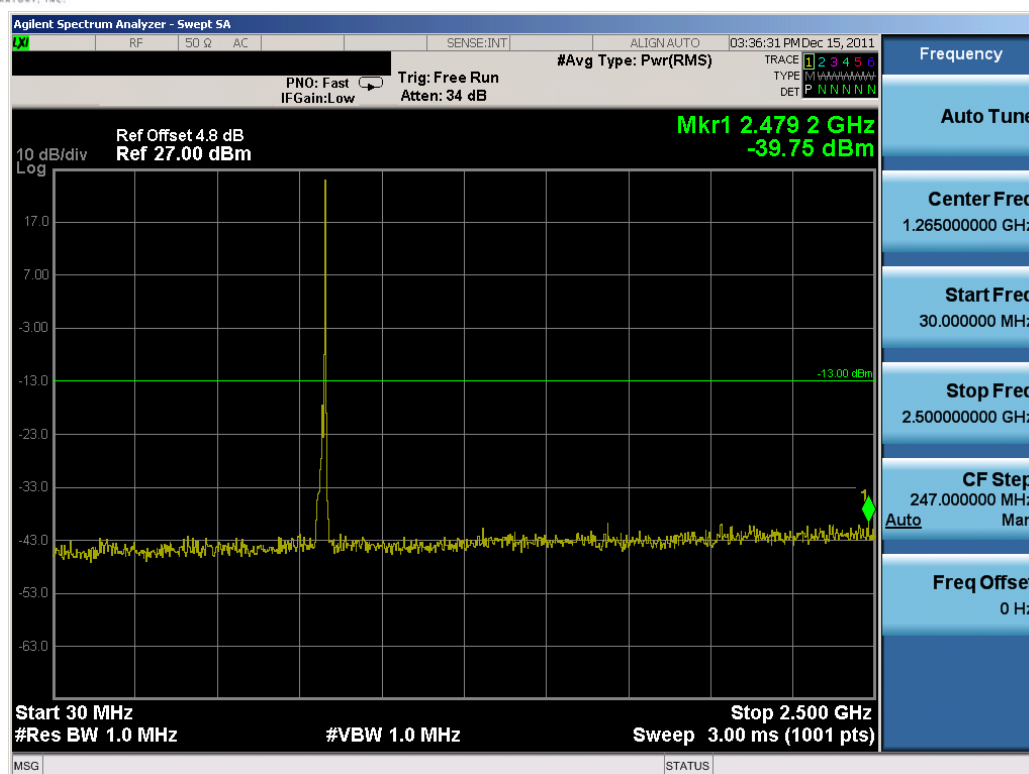


Plot 7-42. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

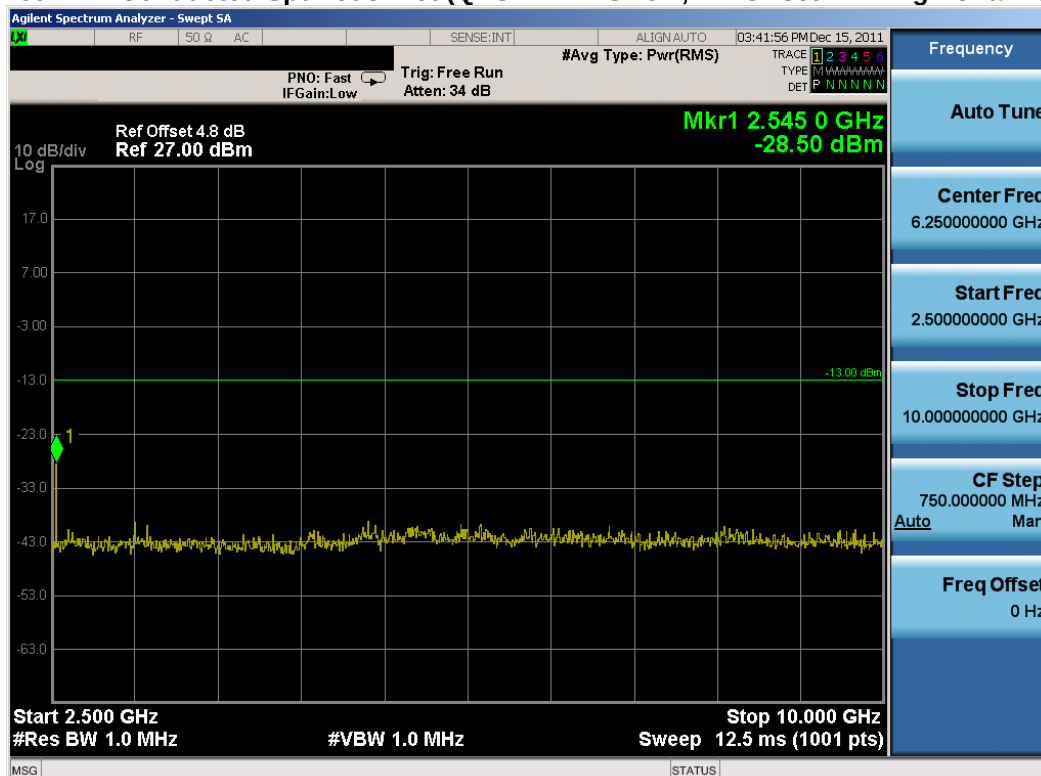


Plot 7-43. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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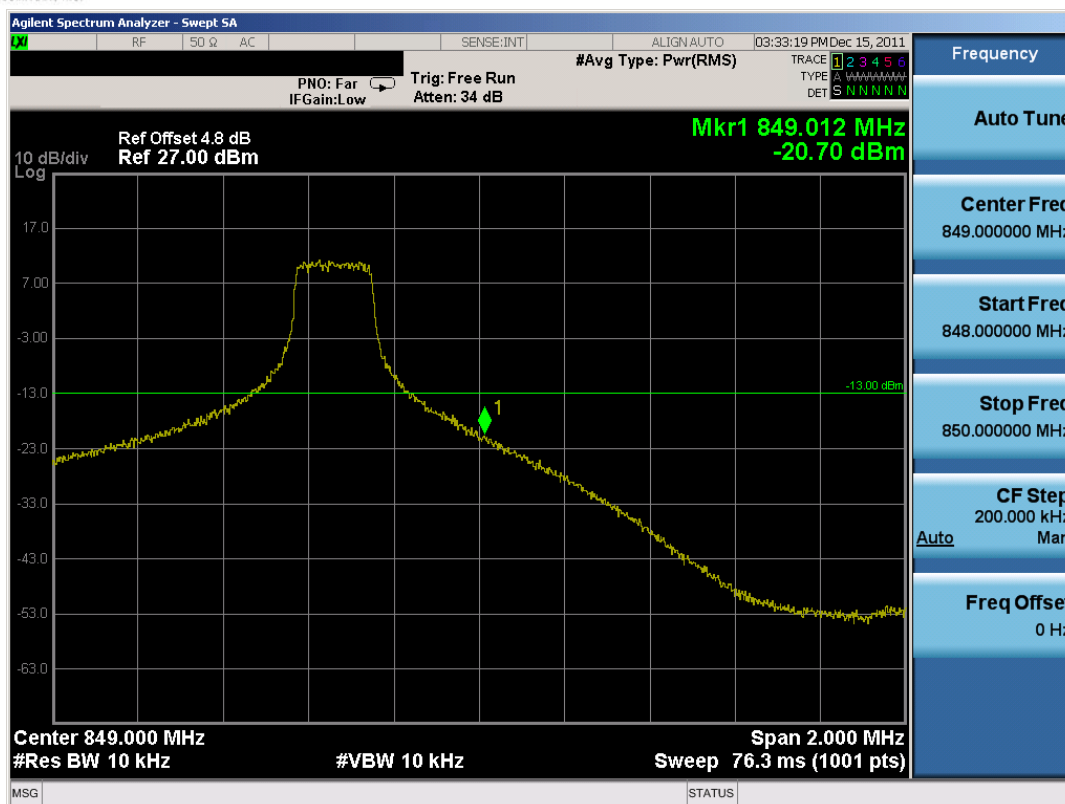


Plot 7-44. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)



Plot 7-45. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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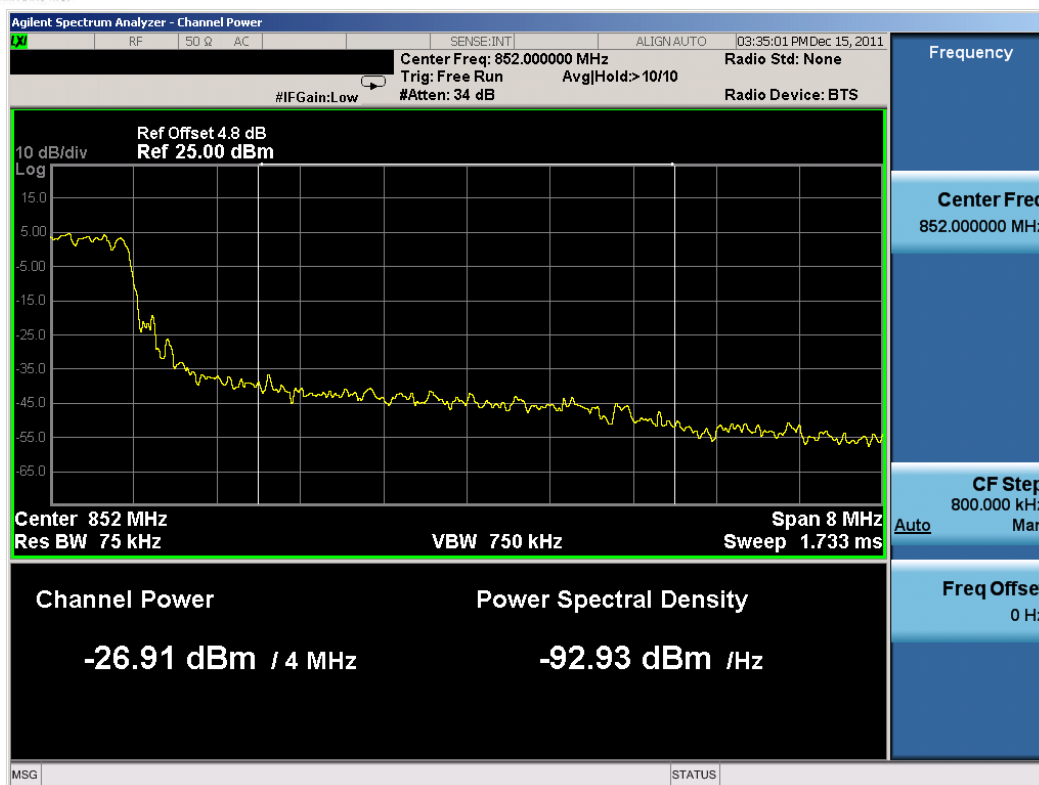


Plot 7-46. Upper Band Edge Plot (QPSK – RB Size 1, Offset 24)



Plot 7-47. Upper Band Edge Plot (16-QAM – RB Size 1, Offset 24)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 7-48. Upper Emission Mask (850 – 854MHz) Plot (QPSK – RB Size 25)

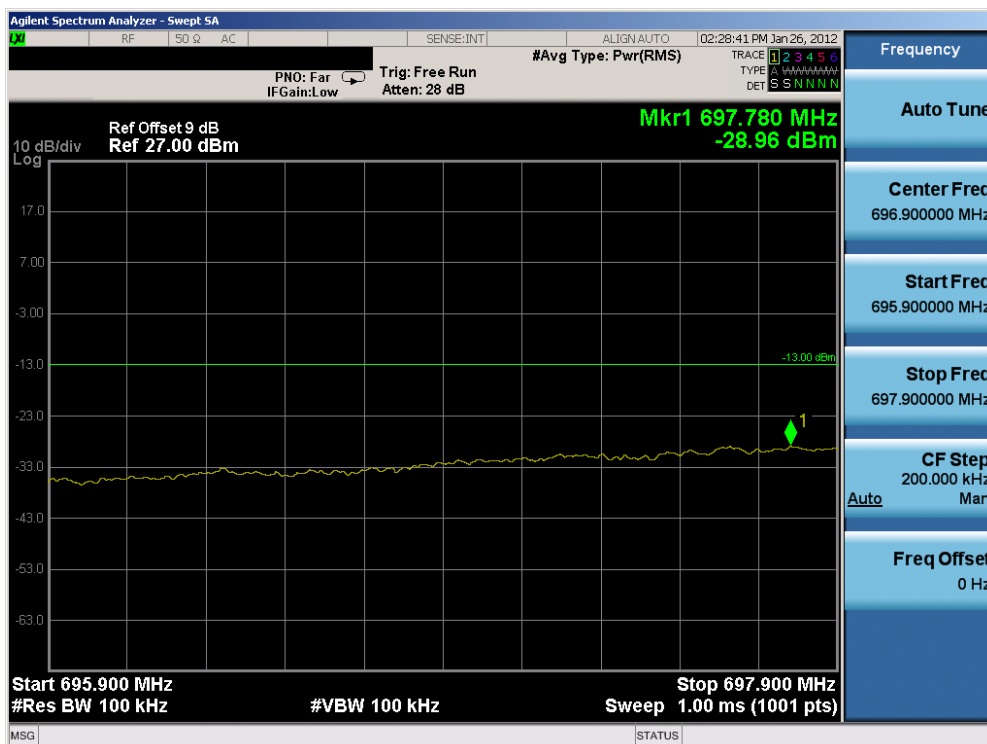


Plot 7-49. Upper Emission Mask (850 – 854MHz) Plot (16-QAM – RB Size 25)

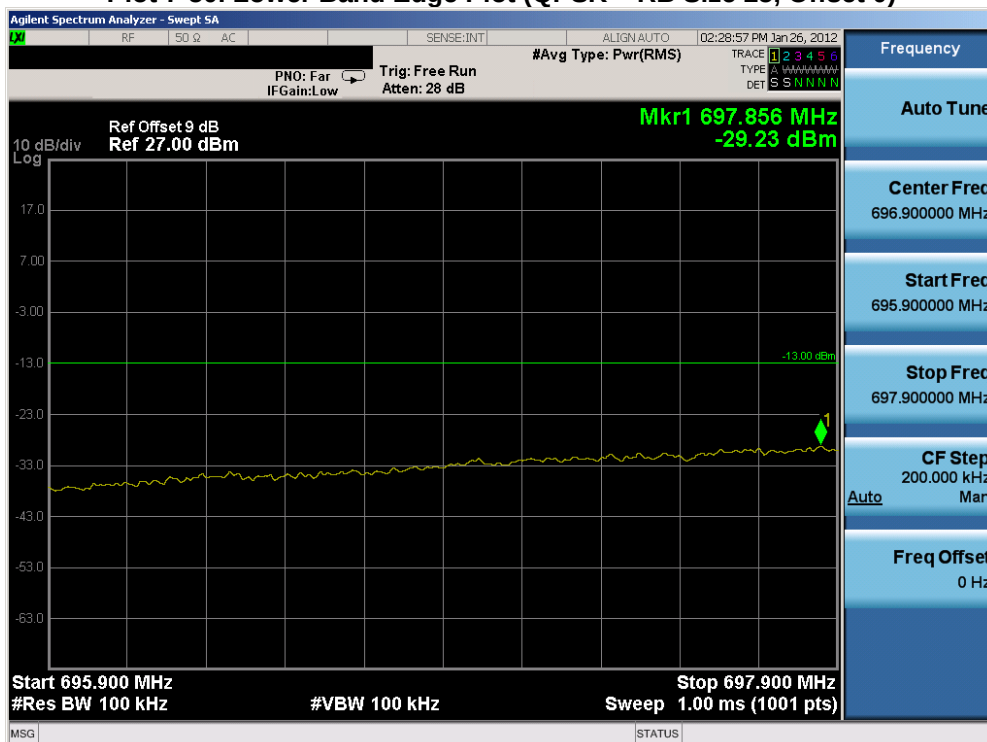
FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 59 of 125

BAND 12

5MHz

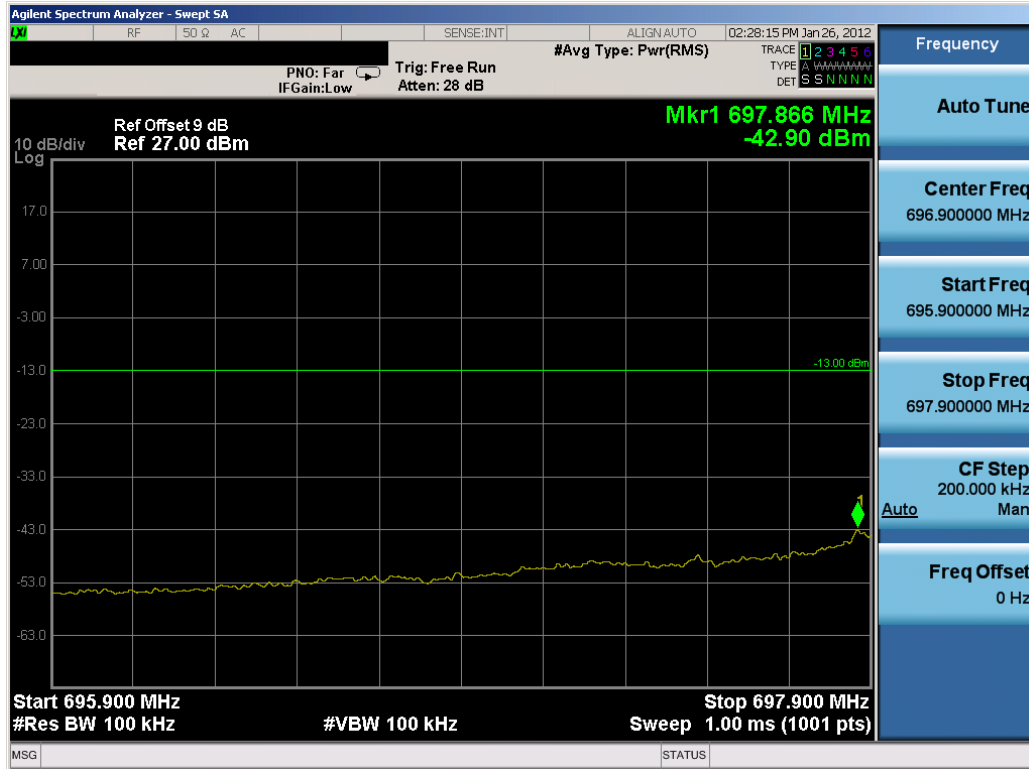


Plot 7-50. Lower Band Edge Plot (QPSK – RB Size 25, Offset 0)

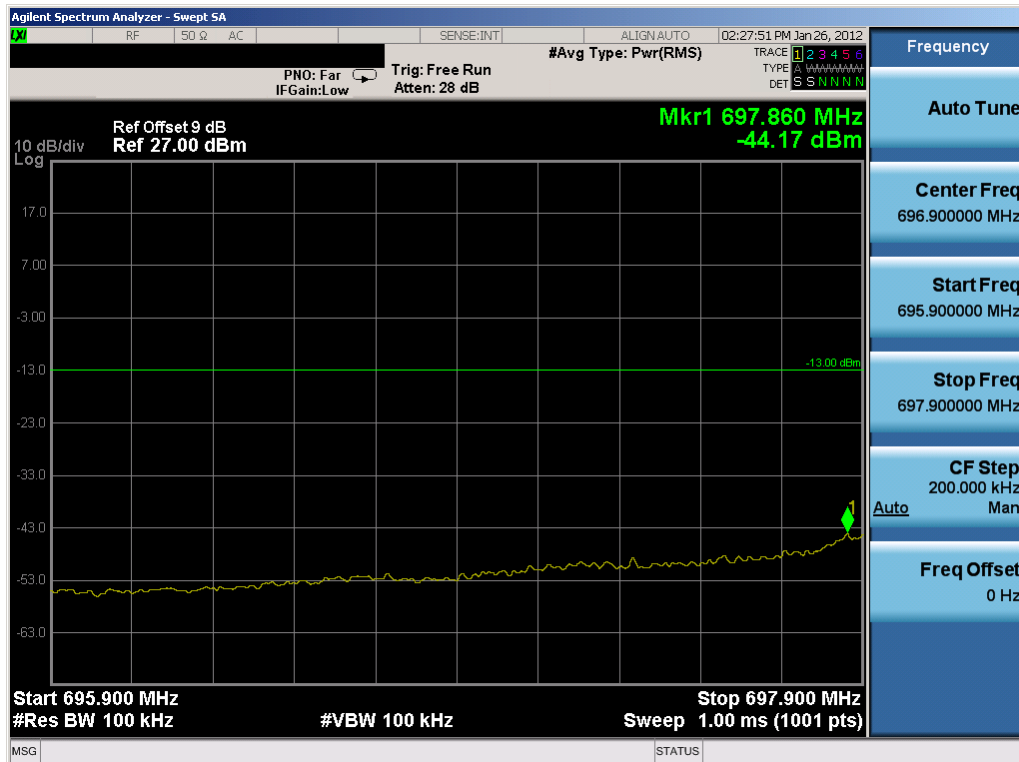


Plot 7-51. Lower Band Edge Plot (16QAM – RB Size 25, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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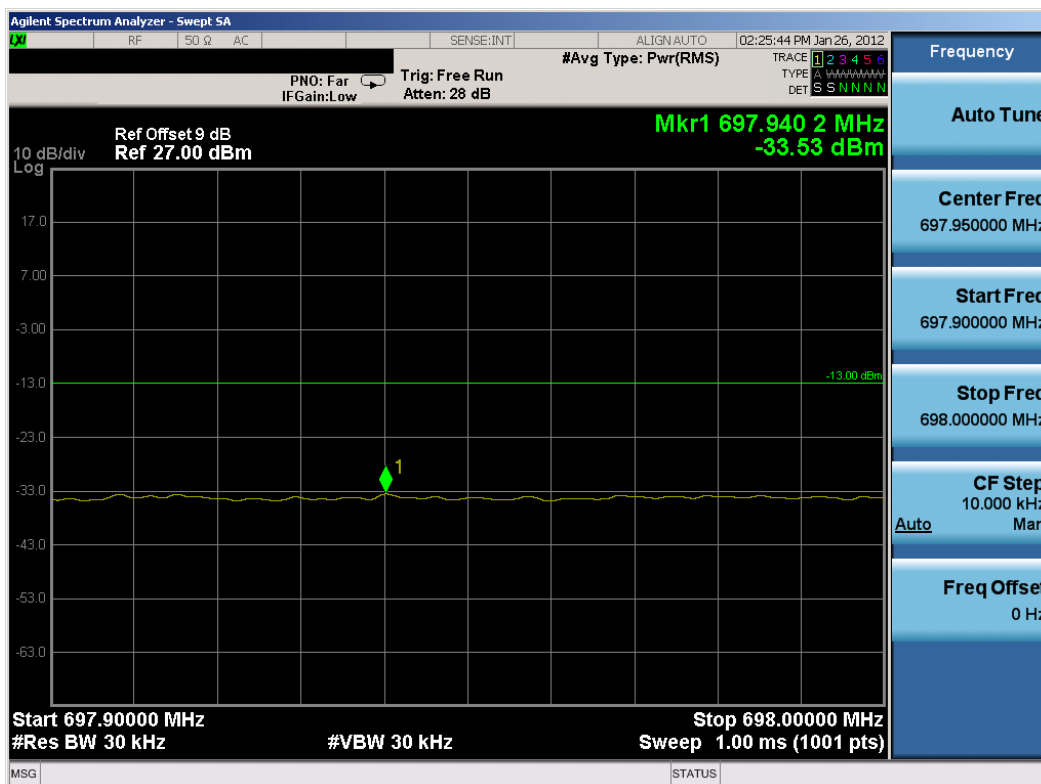


Plot 7-52. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)

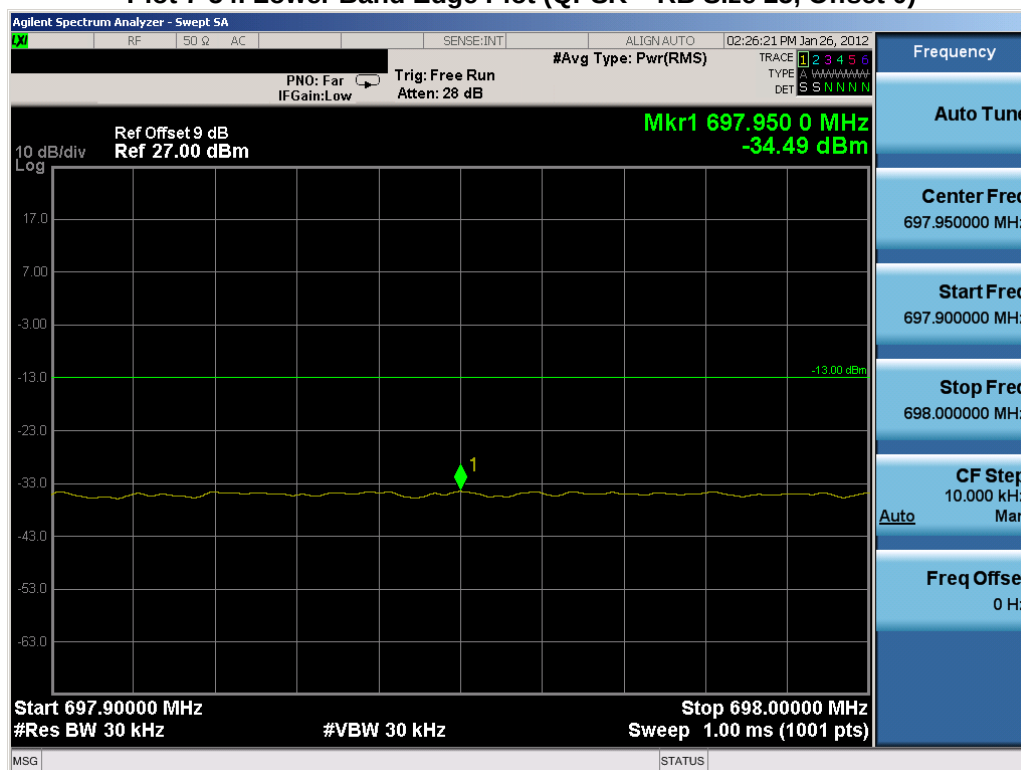


Plot 7-53. Lower Band Edge Plot (16QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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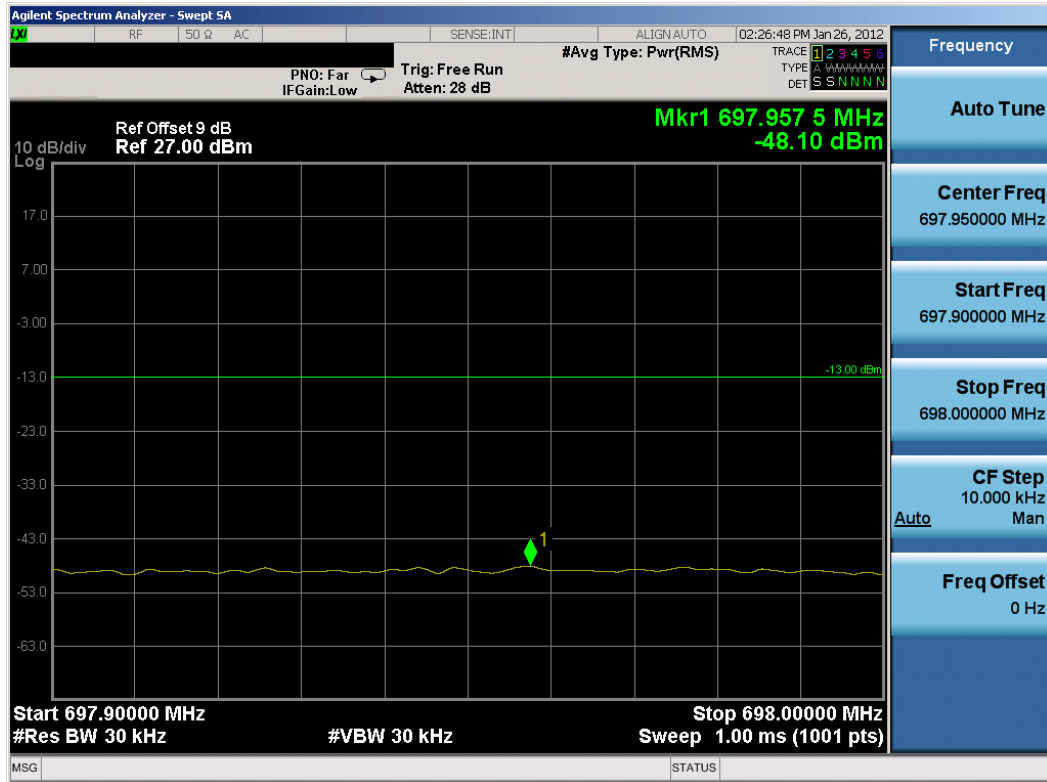


Plot 7-54. Lower Band Edge Plot (QPSK – RB Size 25, Offset 0)

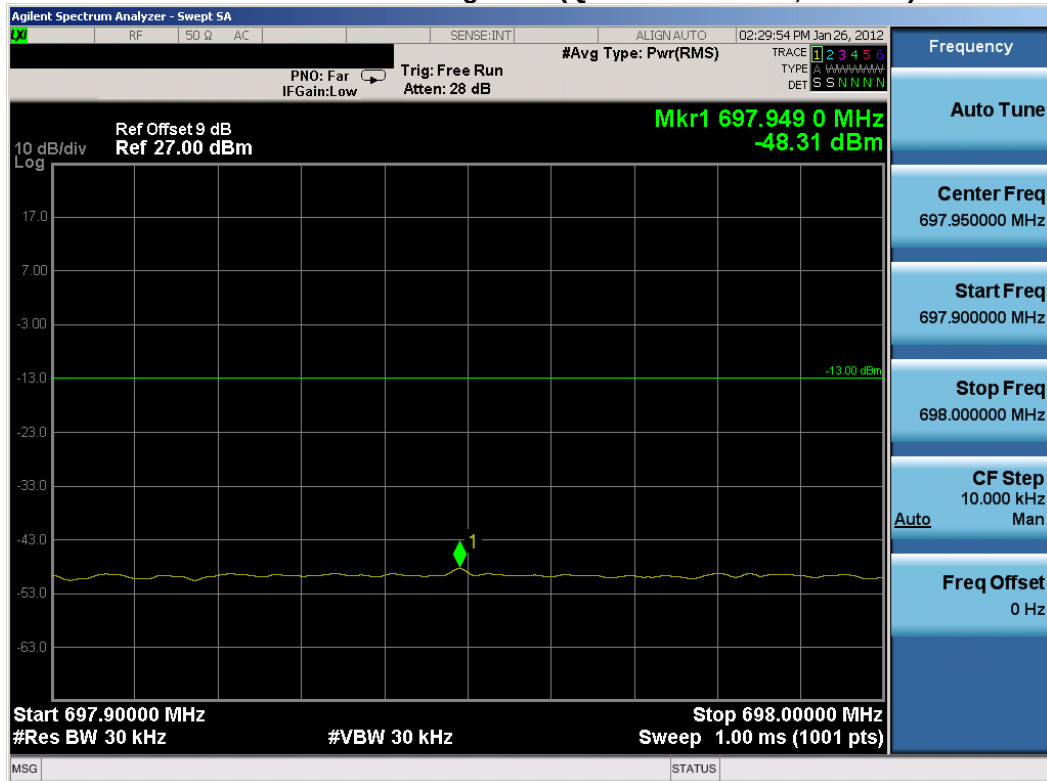


Plot 7-55. Lower Band Edge Plot (16QAM – RB Size 25, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 62 of 125

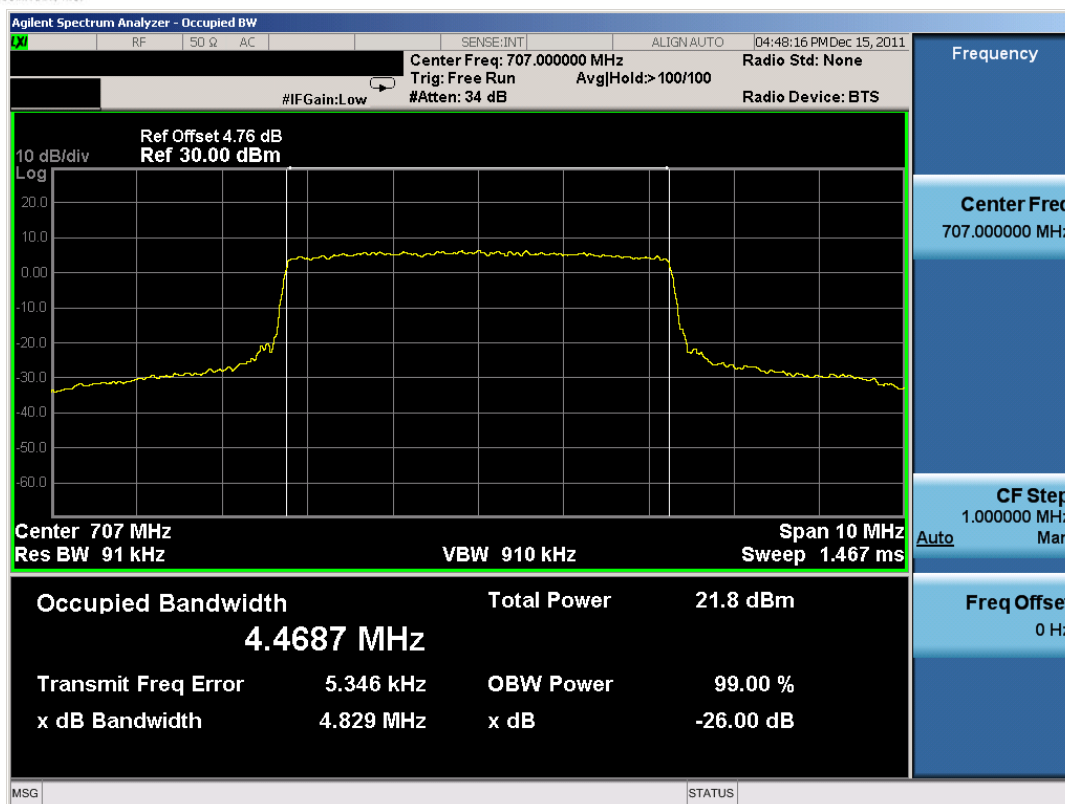


Plot 7-56. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)

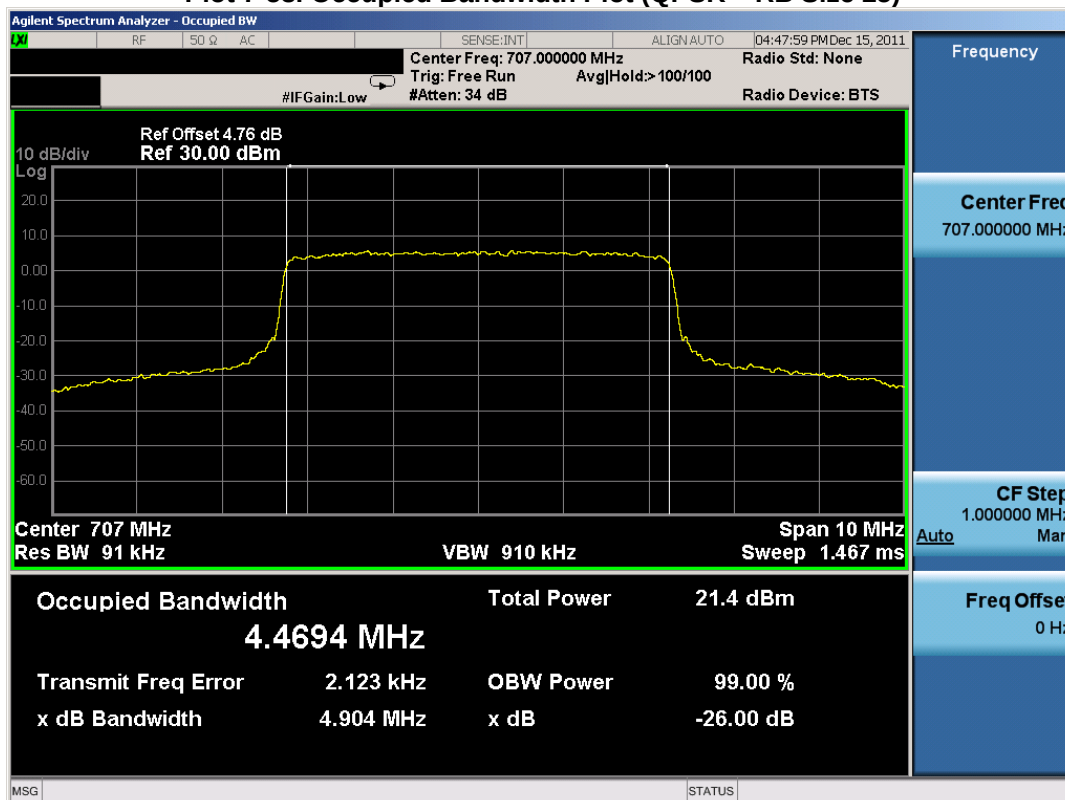


Plot 7-57. Lower Band Edge Plot (16QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 63 of 125

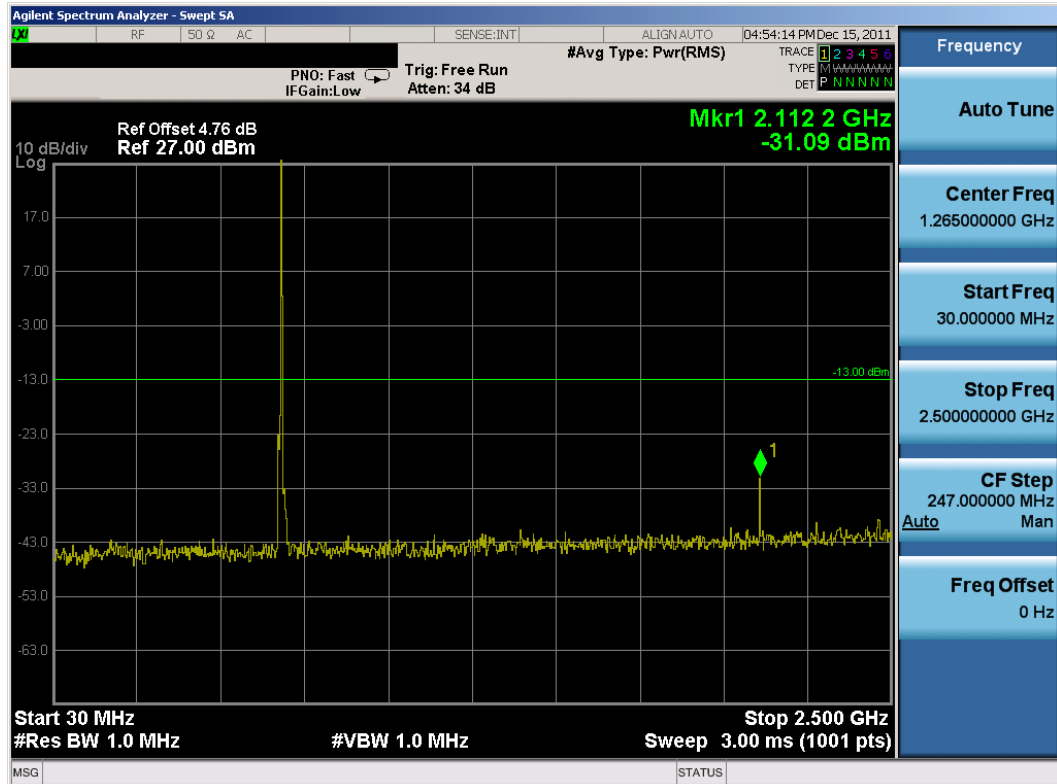


Plot 7-58. Occupied Bandwidth Plot (QPSK – RB Size 25)

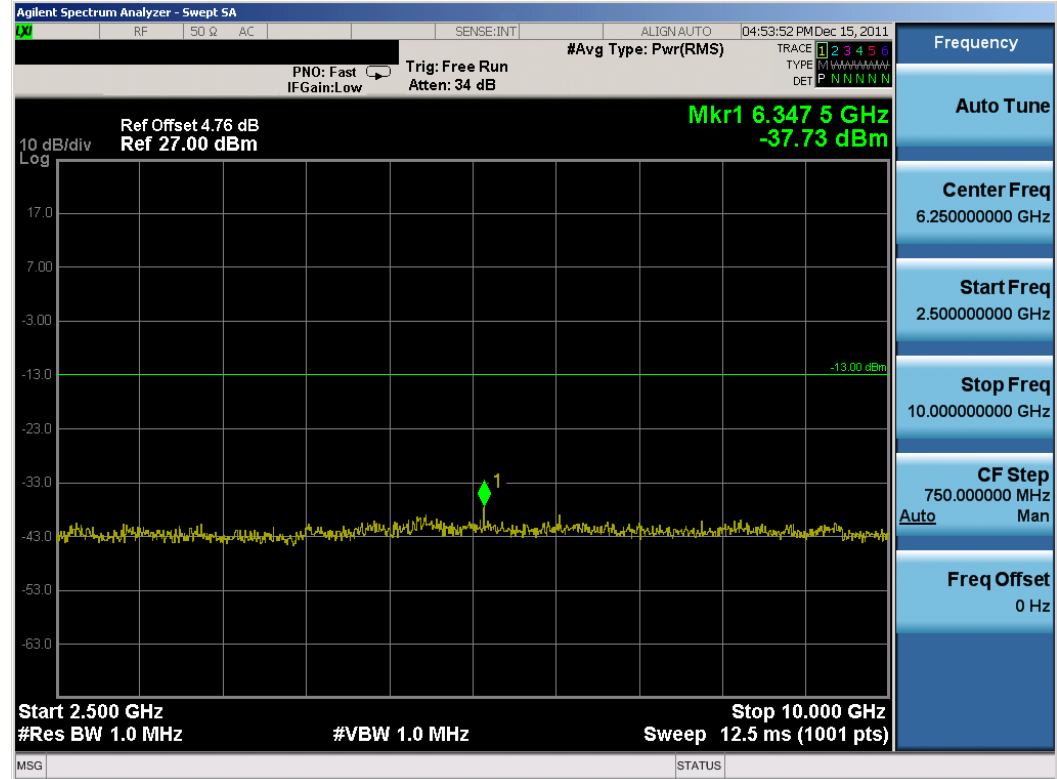


Plot 7-59. Occupied Bandwidth Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U			FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer			Page 64 of 125

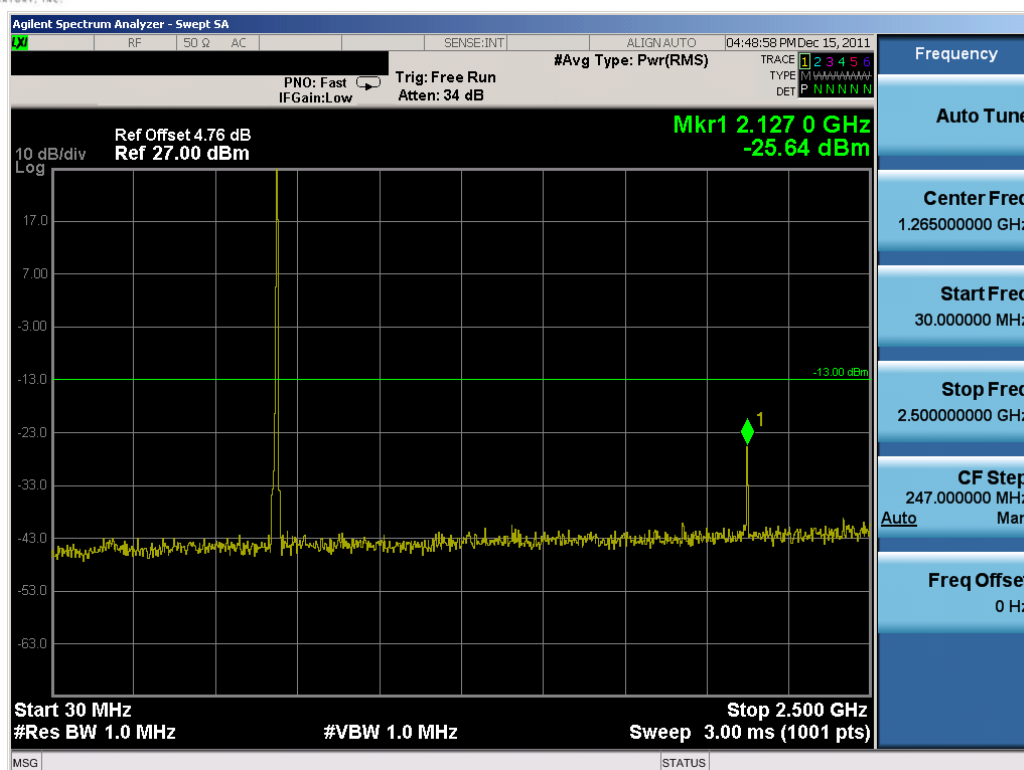


Plot 7-60. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

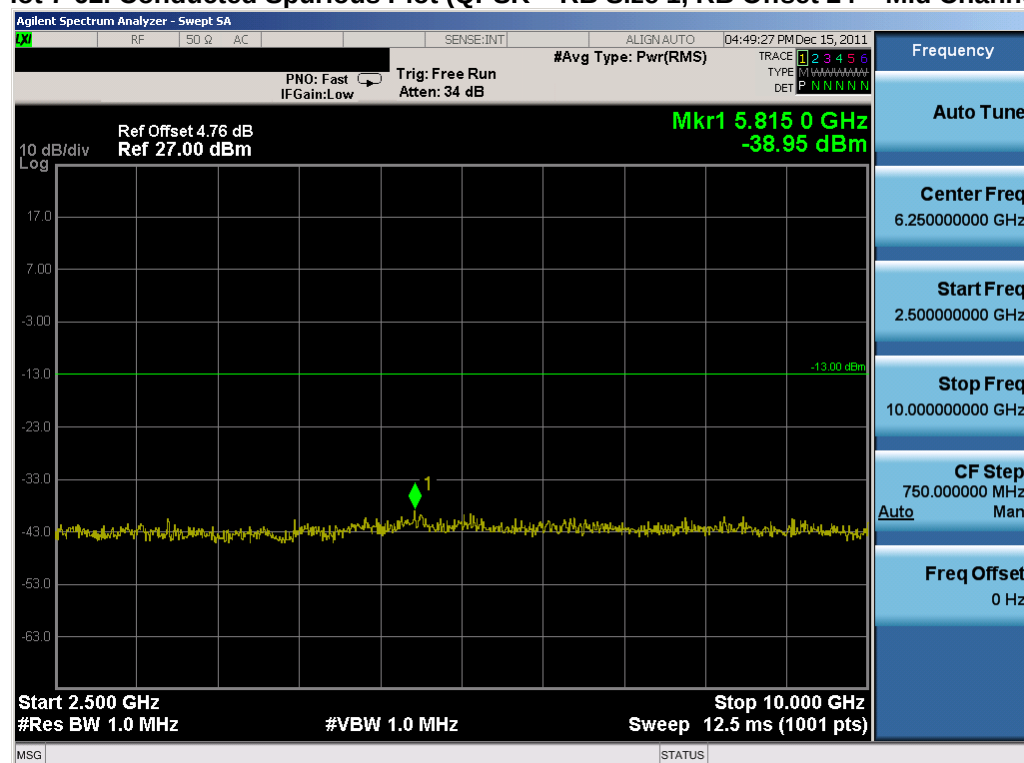


Plot 7-61. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

FCC ID: A3LSCHI905U			FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer			Page 65 of 125

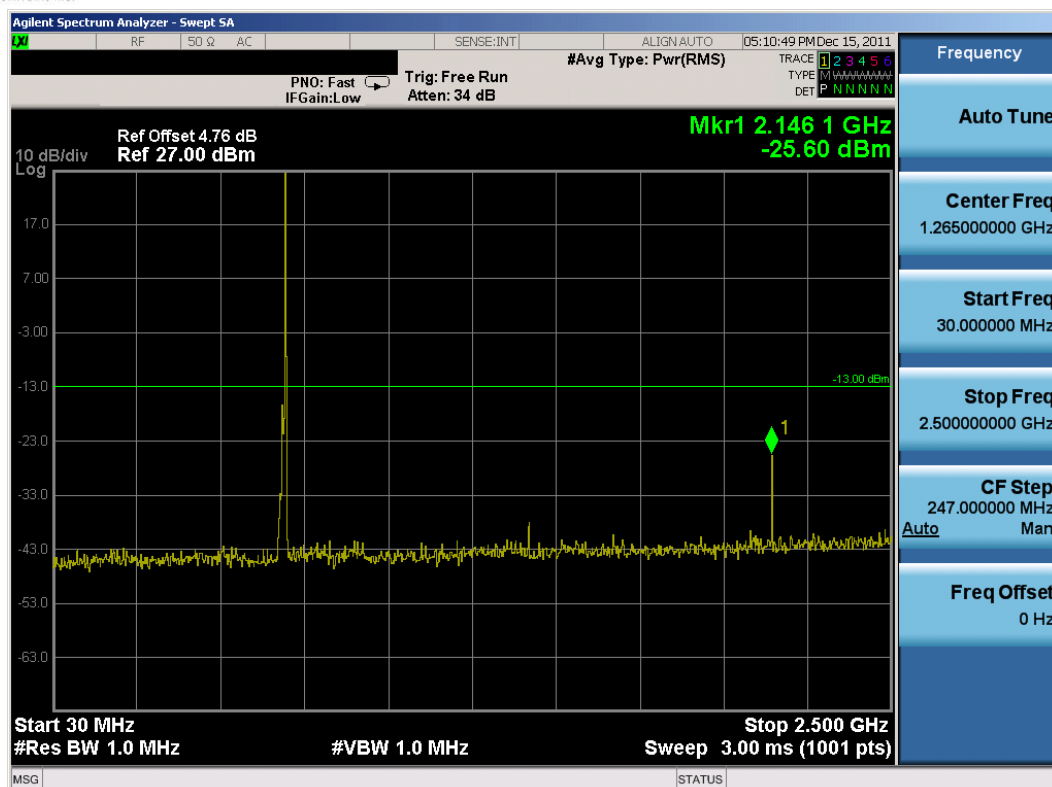


Plot 7-62. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

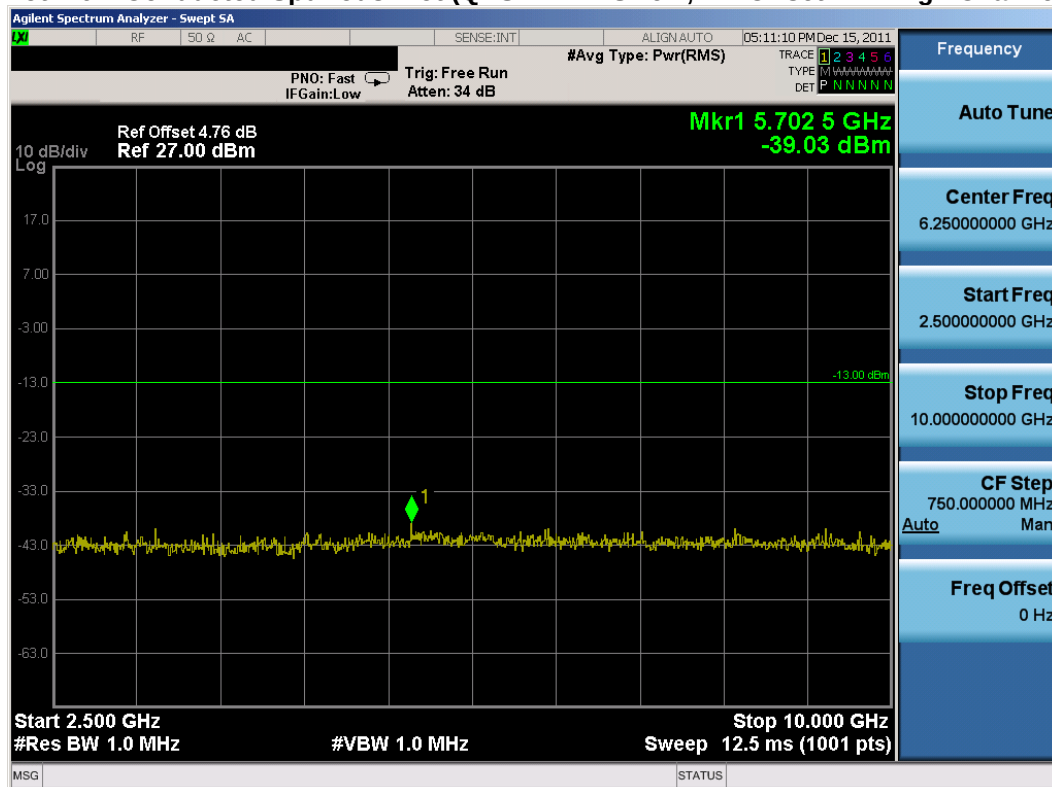


Plot 7-63. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer	Page 66 of 125

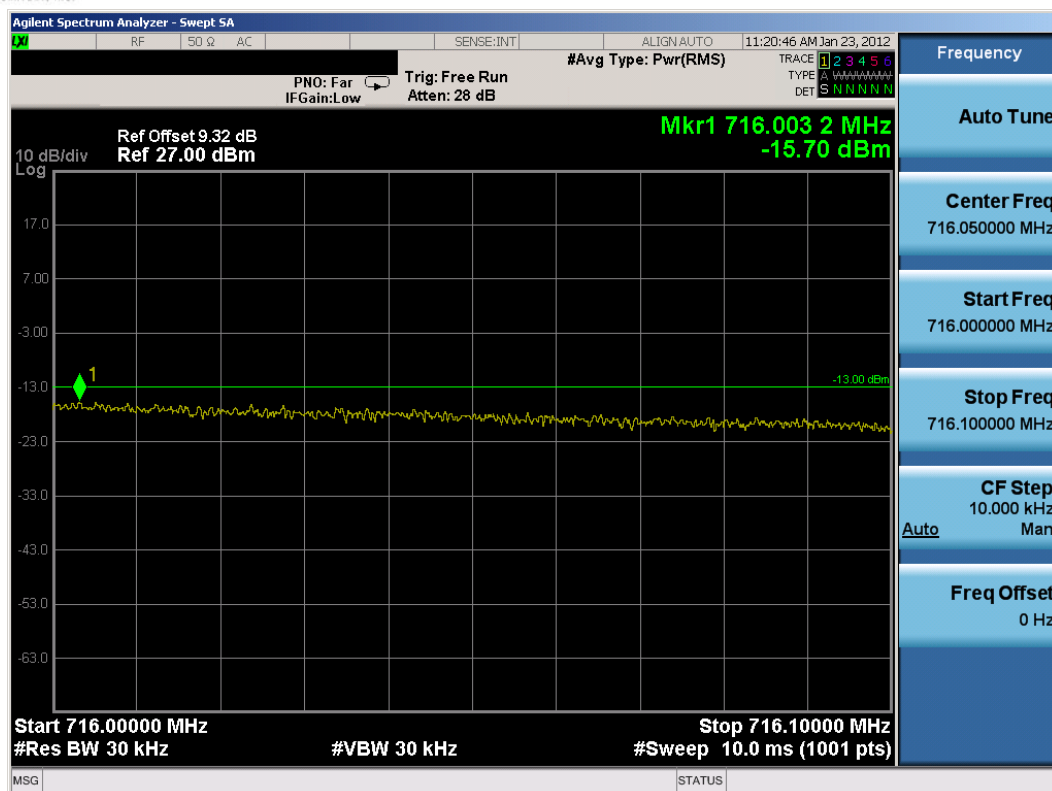


Plot 7-64. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)

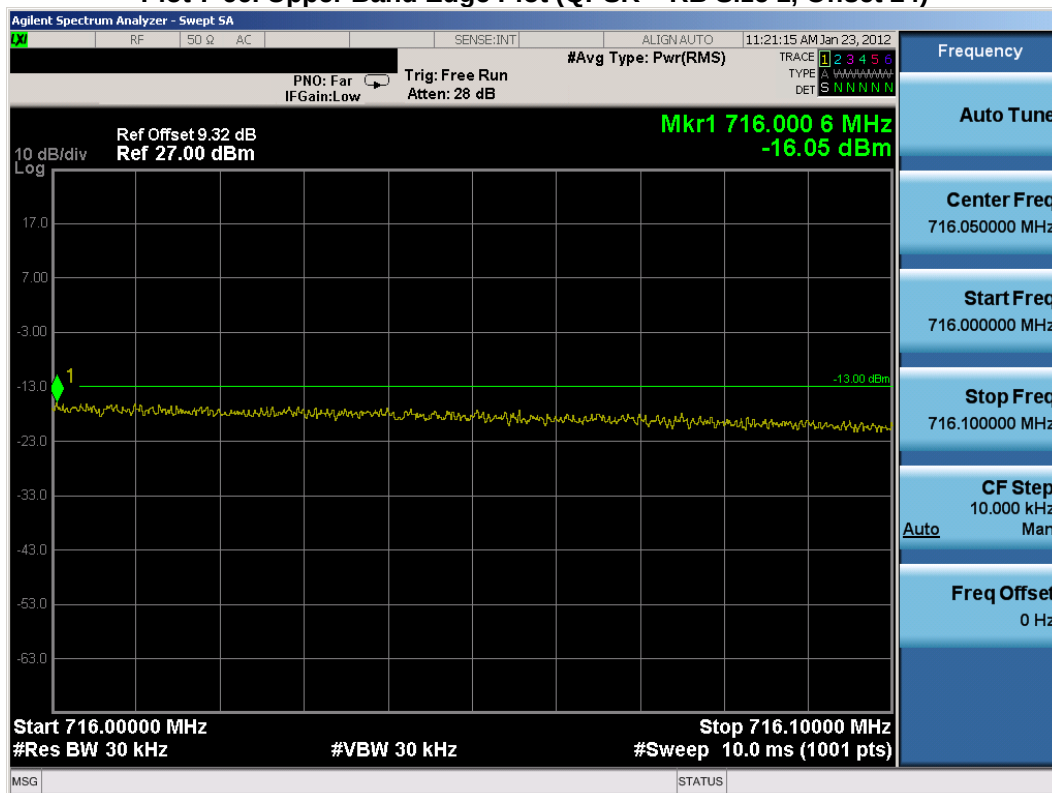


Plot 7-65. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 67 of 125

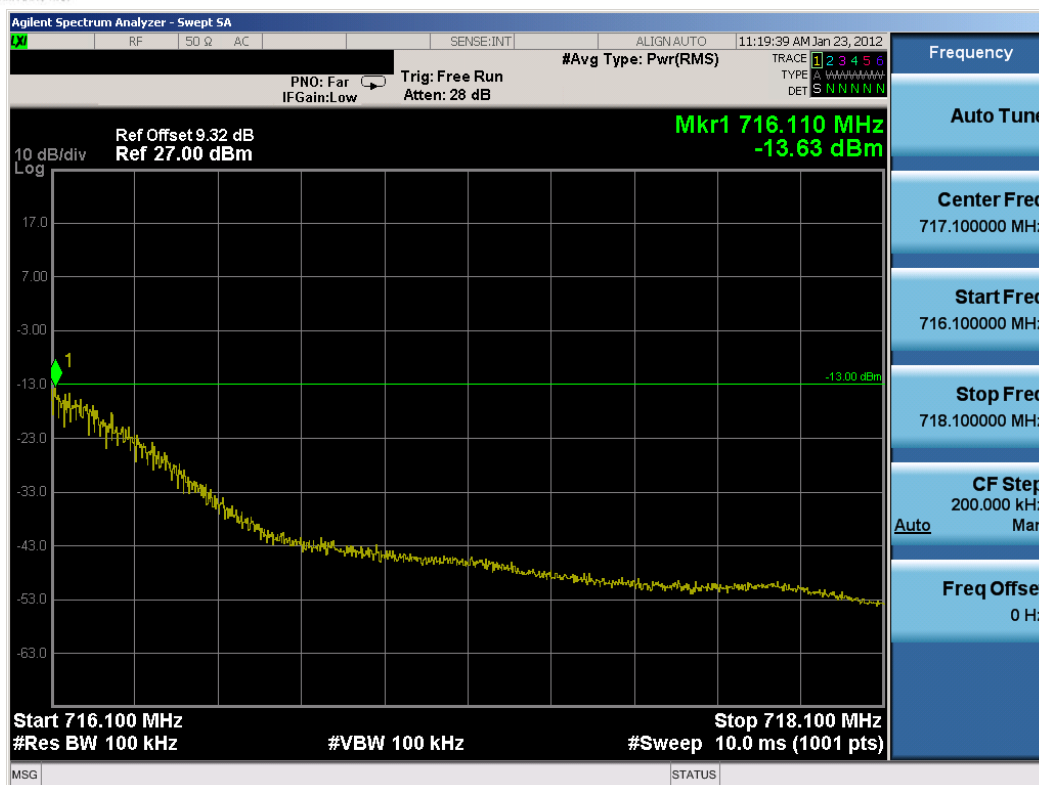


Plot 7-66. Upper Band Edge Plot (QPSK – RB Size 1, Offset 24)



Plot 7-67. Upper Band Edge Plot (16QAM – RB Size 1, Offset 24)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 68 of 125



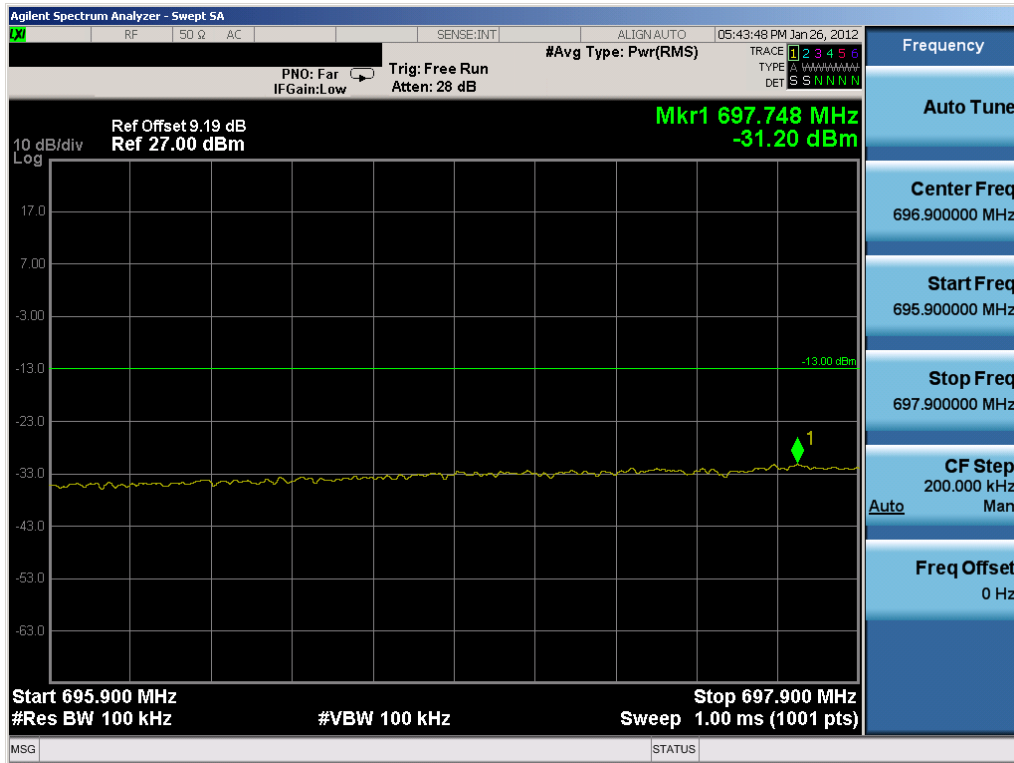
Plot 7-68. Upper Band Edge Plot (QPSK – RB Size 1, Offset 24)



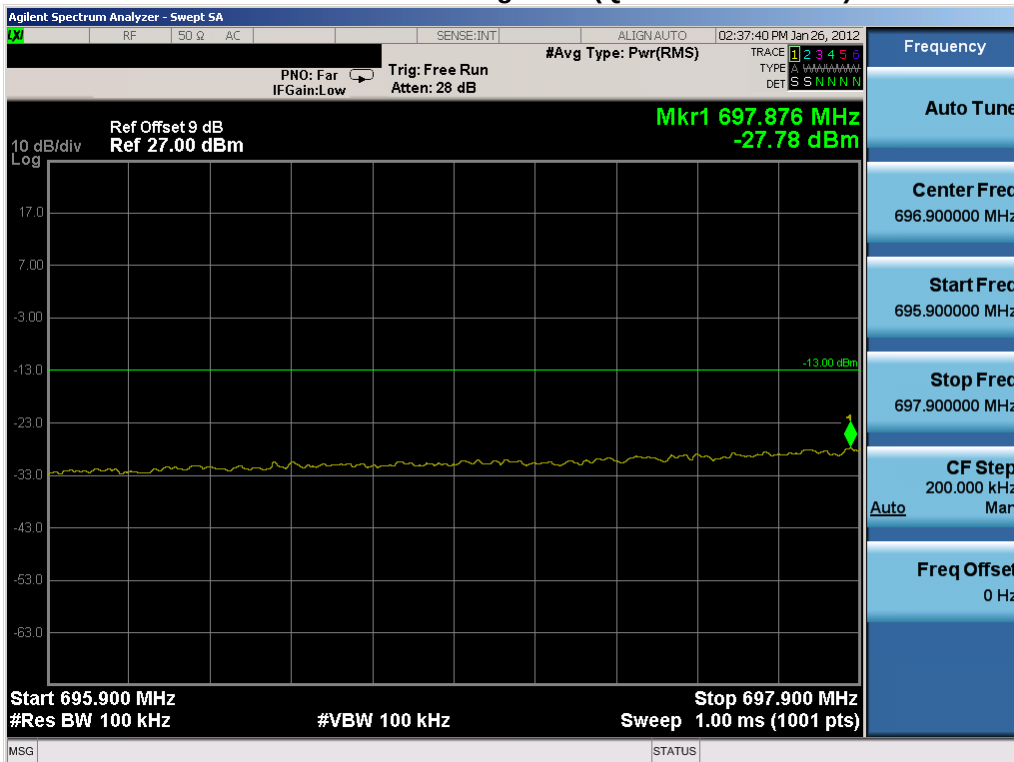
Plot 7-69. Upper Band Edge Plot (16-QAM – RB Size 1, Offset 24)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 69 of 125

10 MHz

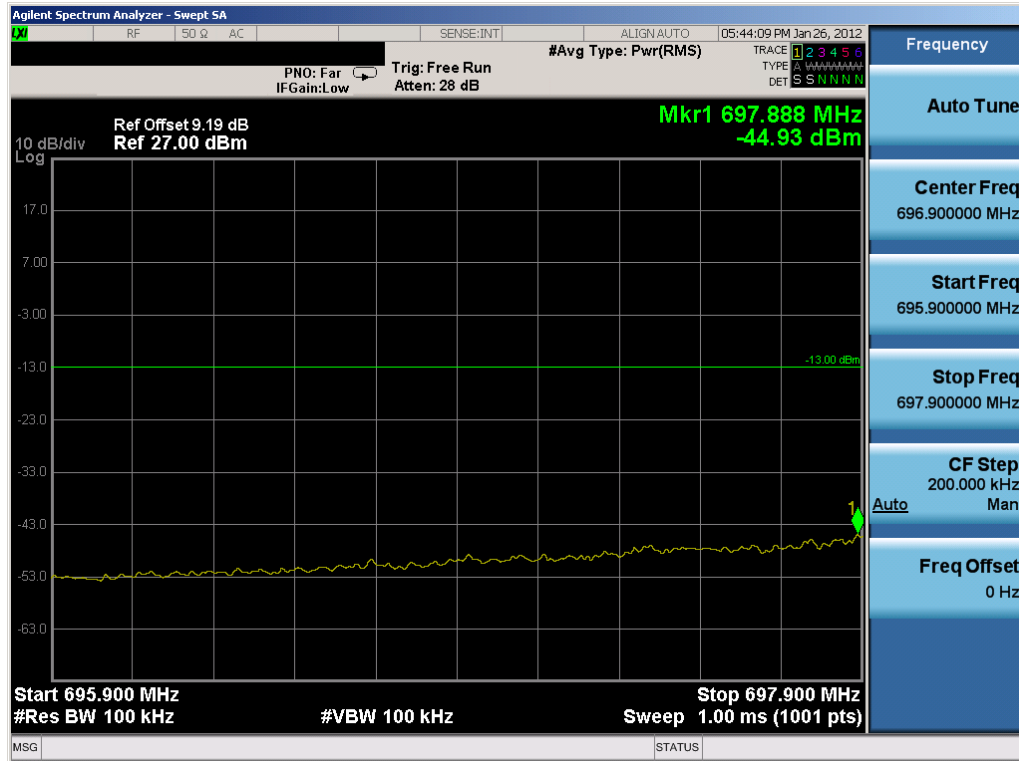


Plot 7-70. Lower Band Edge Plot (QPSK – RB Size 50)

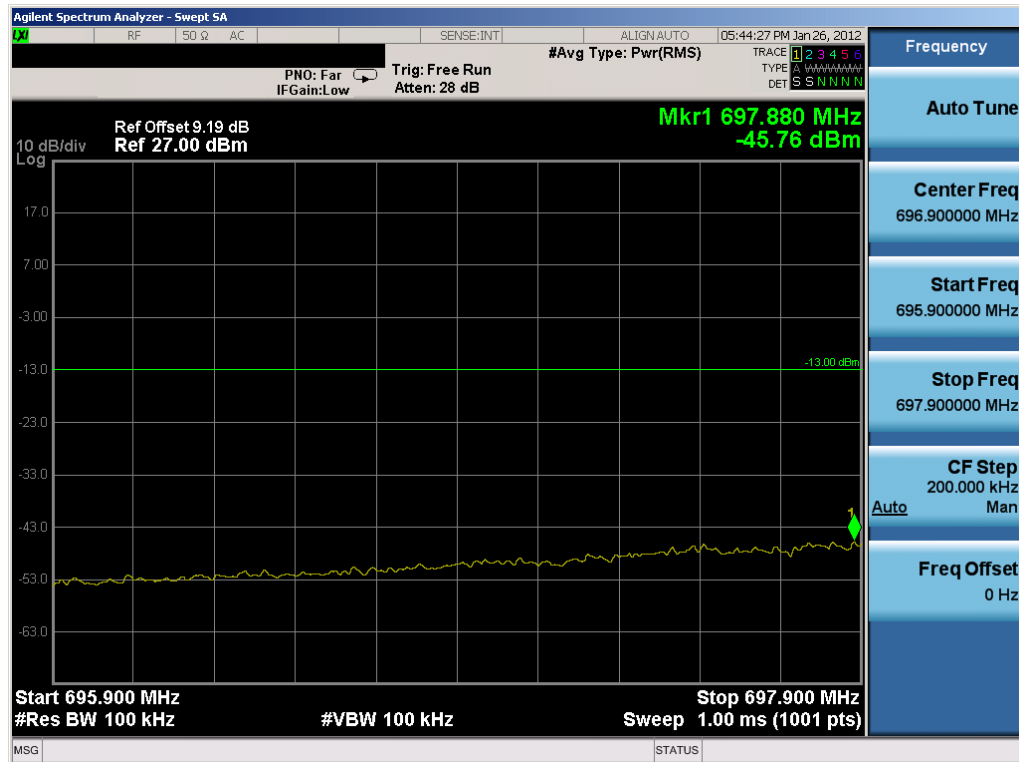


Plot 7-71. Lower Band Edge Plot (16-QAM – RB Size 50)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 70 of 125

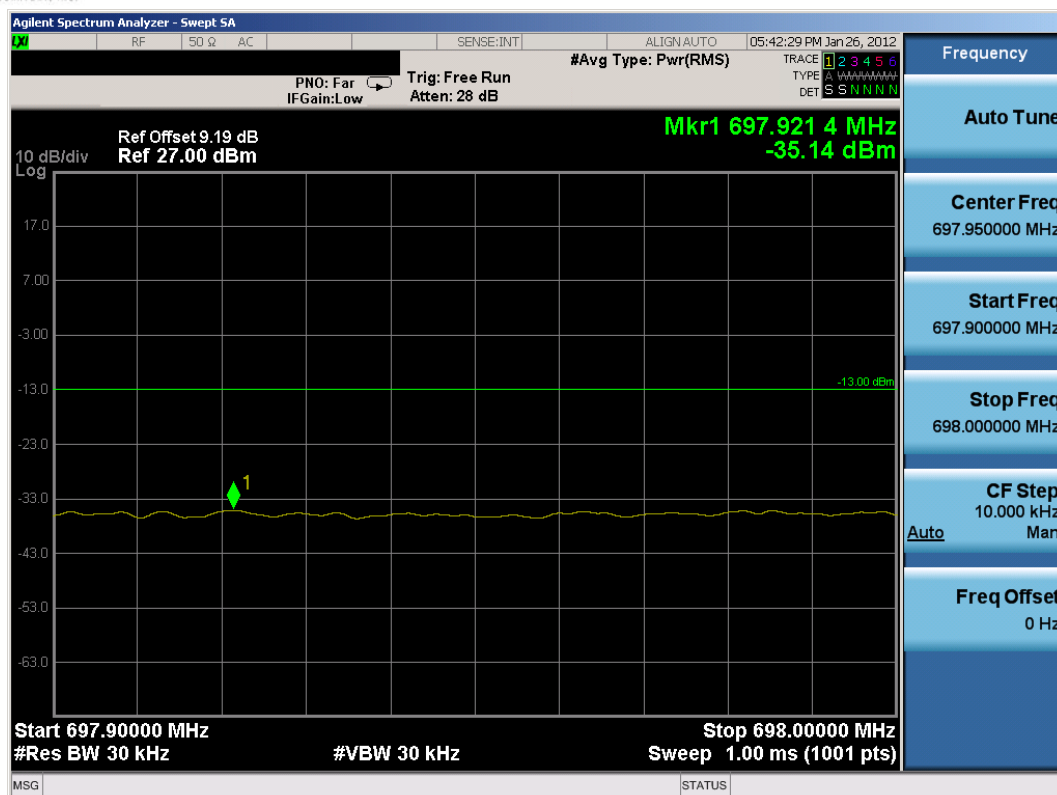


Plot 7-72. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)

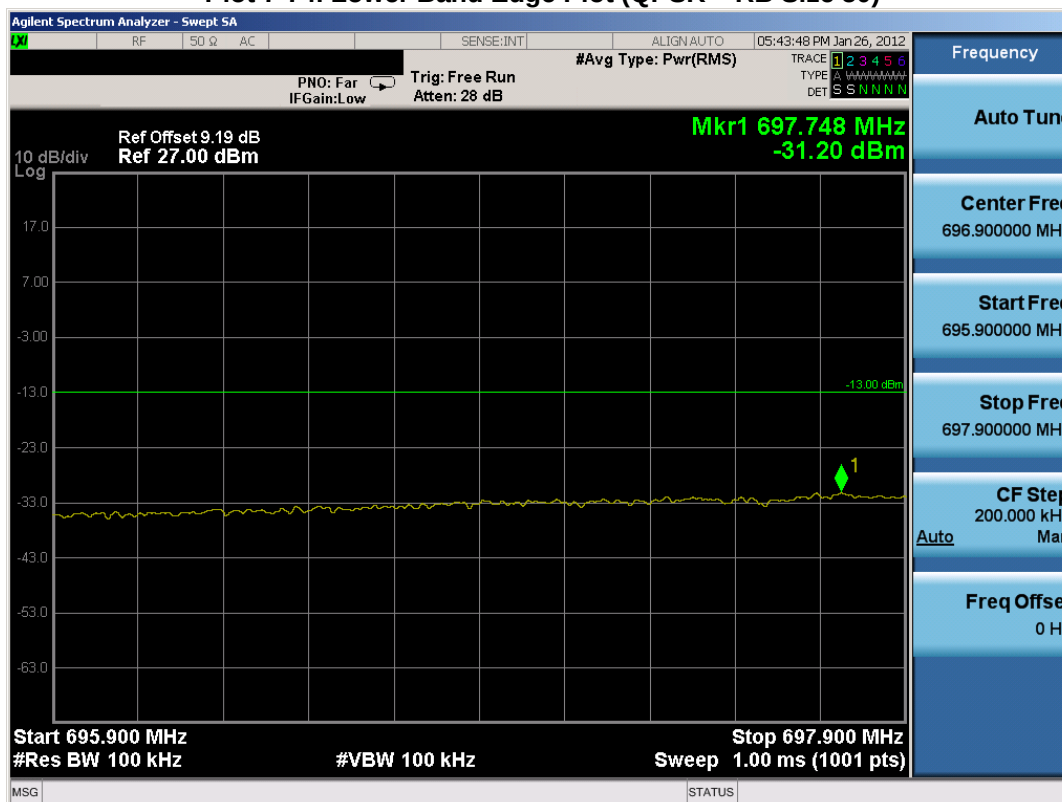


Plot 7-73. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 71 of 125

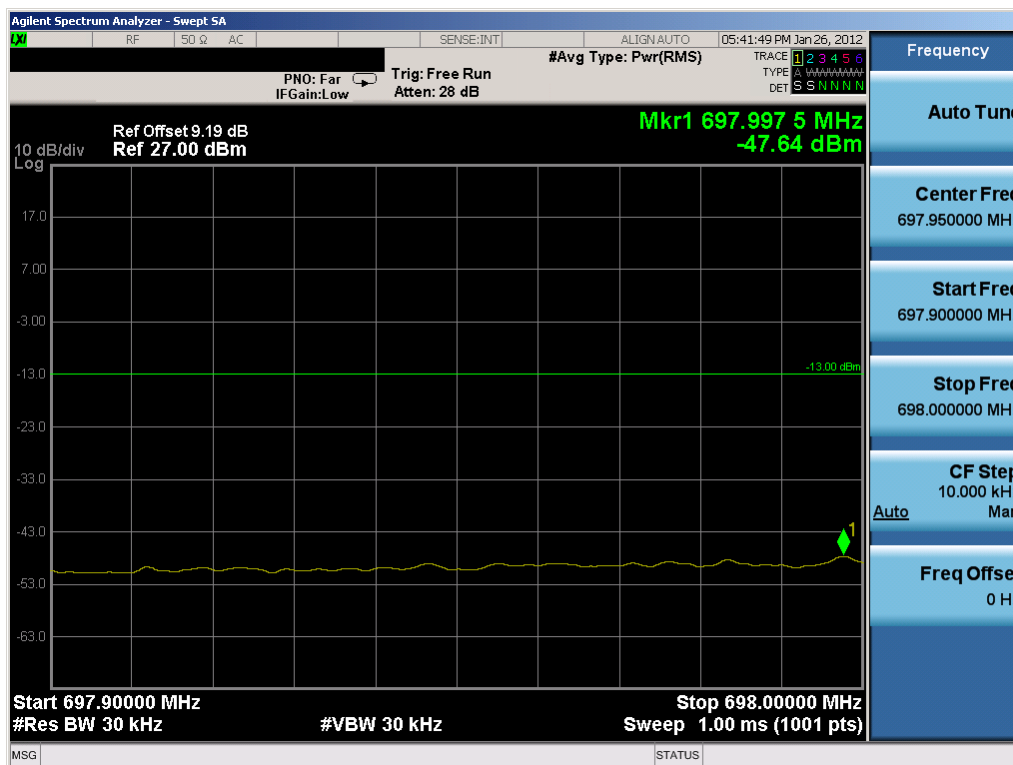


Plot 7-74. Lower Band Edge Plot (QPSK – RB Size 50)

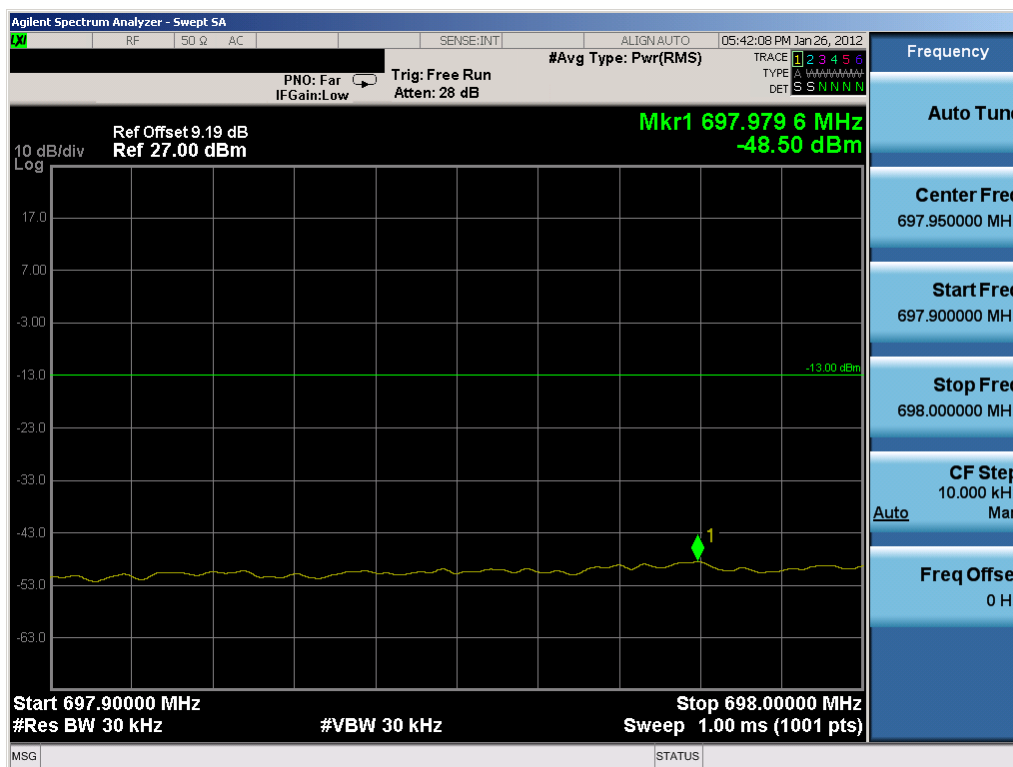


Plot 7-75. Lower Band Edge Plot (16-QAM – RB Size 50)

FCC ID: A3LSCHI905U	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
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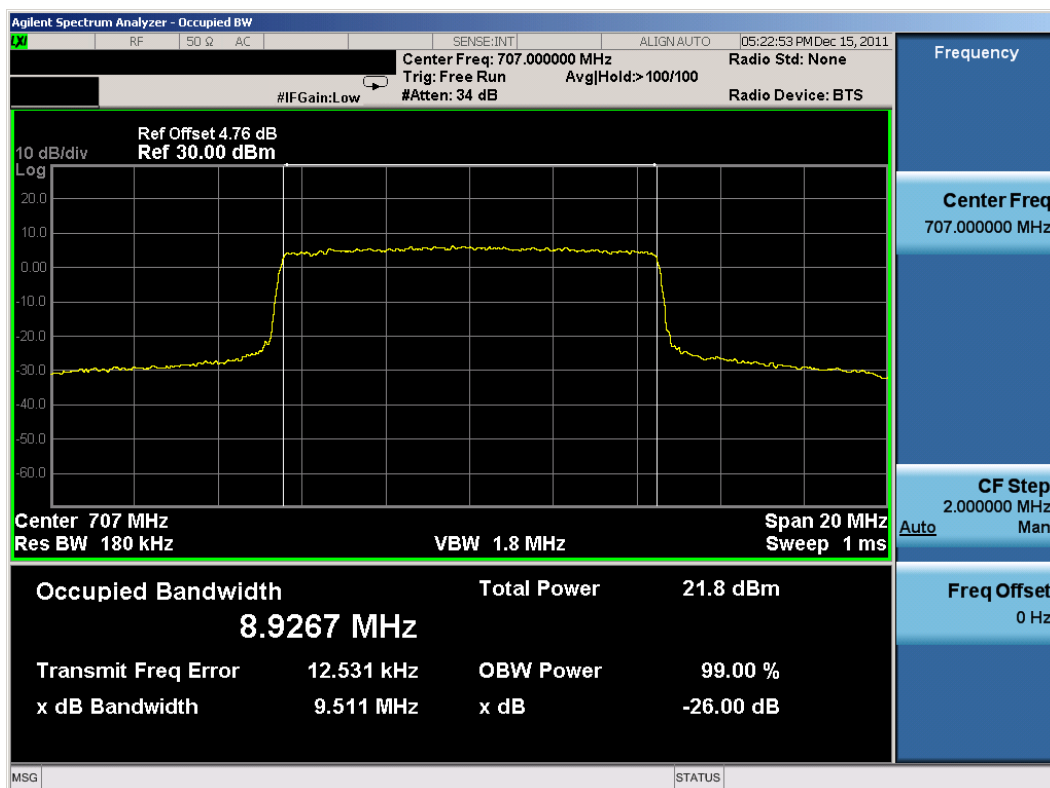


Plot 7-76. Lower Band Edge Plot (QPSK - RB Size 1, Offset 0)

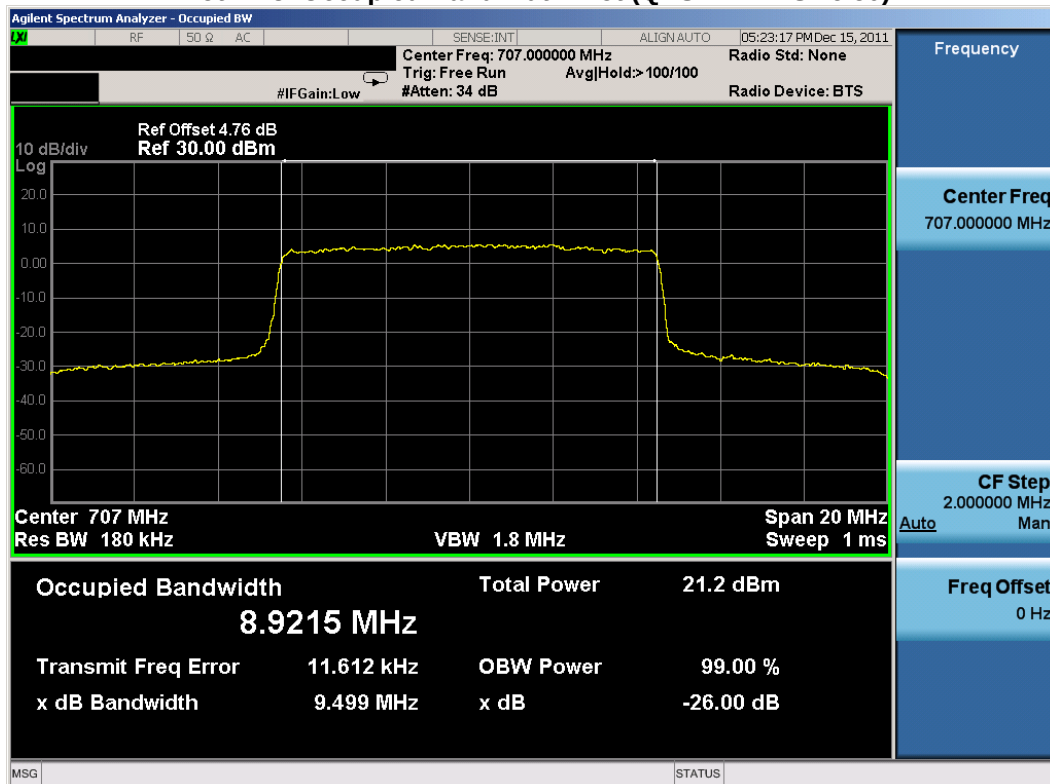


Plot 7-77. Lower Band Edge Plot (16-QAM - RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 73 of 125

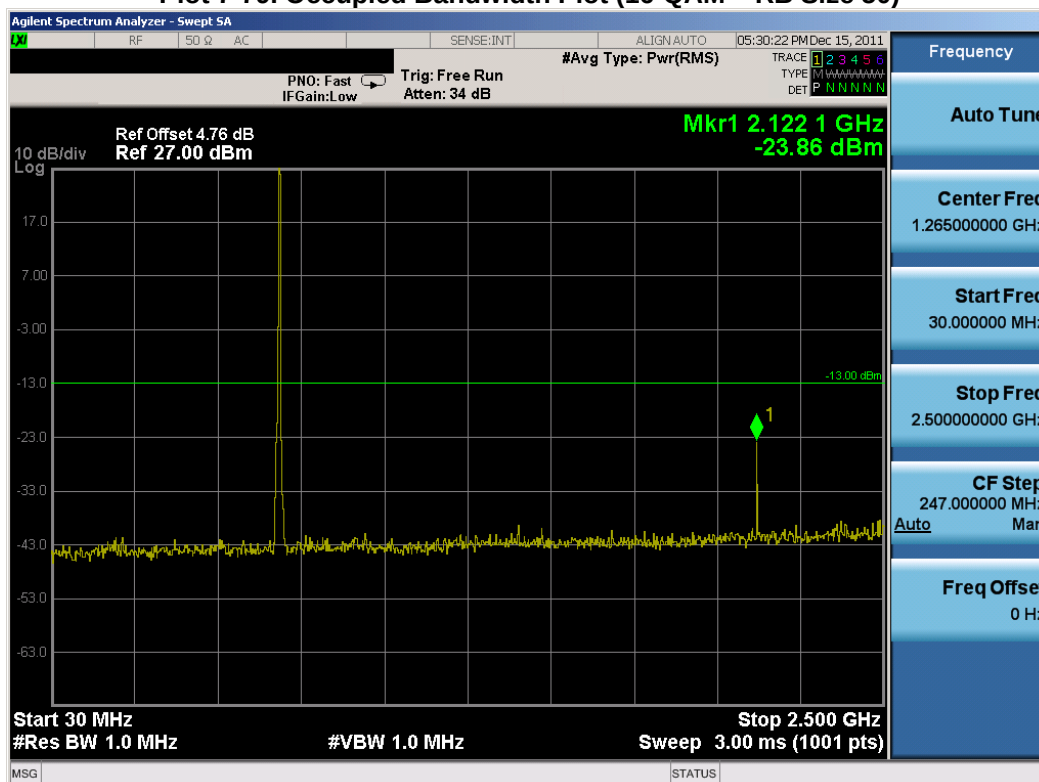


Plot 7-78. Occupied Bandwidth Plot (QPSK – RB Size 50)

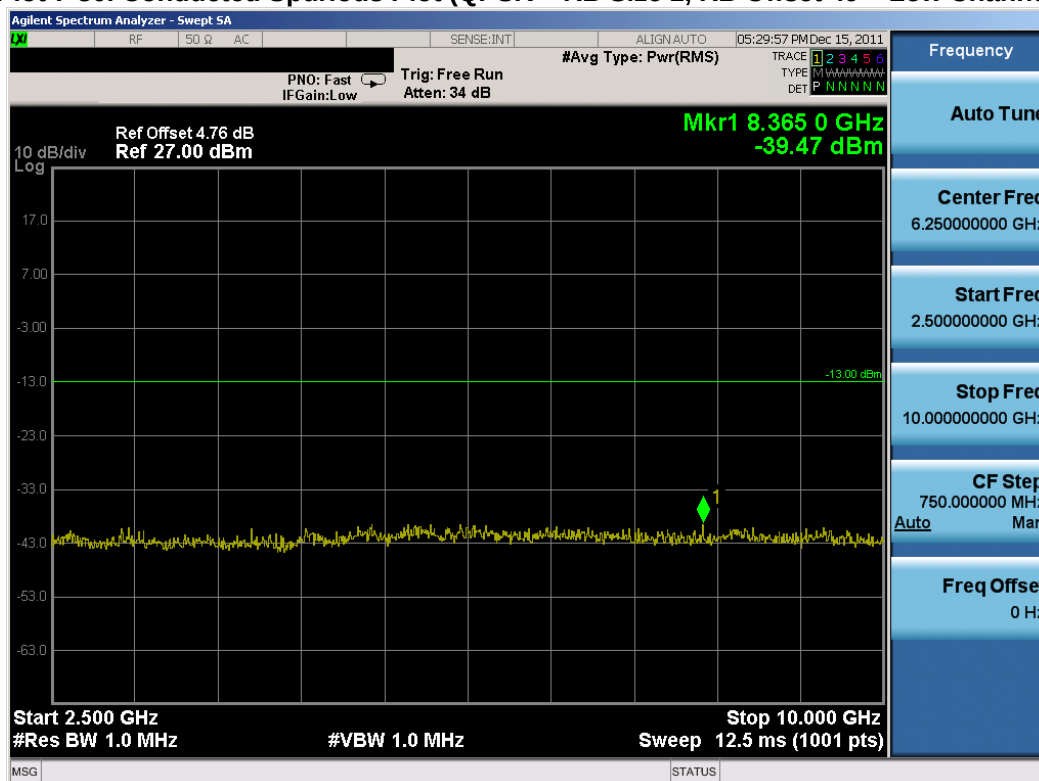


FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 7-79. Occupied Bandwidth Plot (16-QAM – RB Size 50)

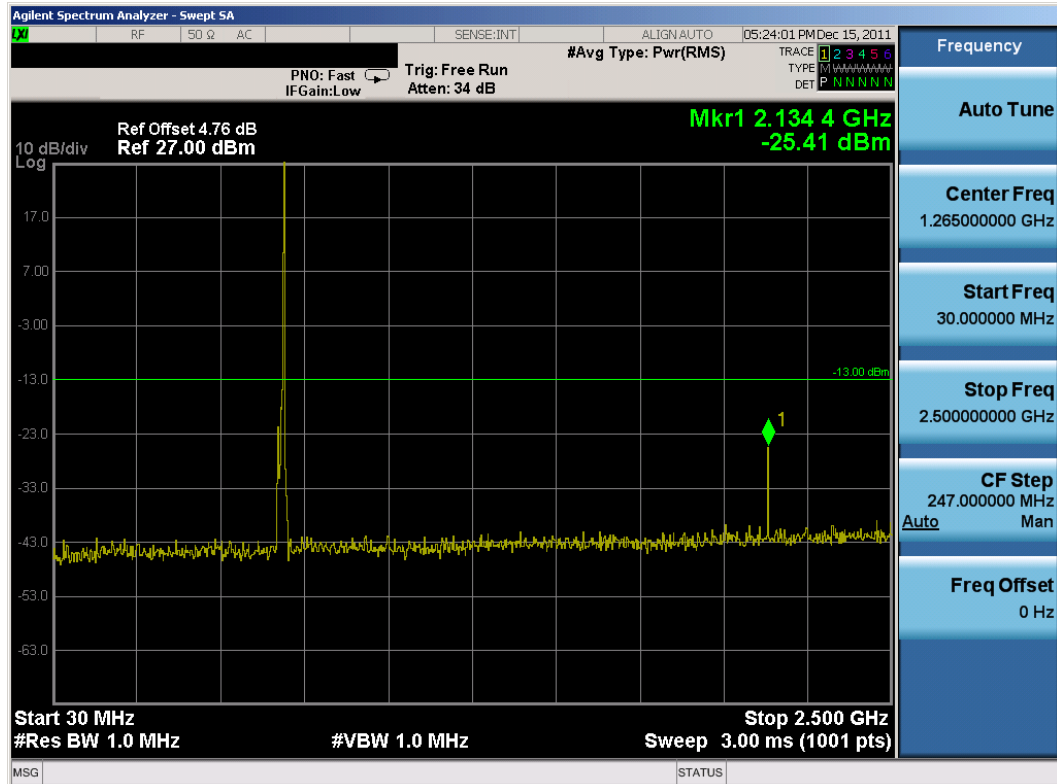


Plot 7-80. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Low Channel)

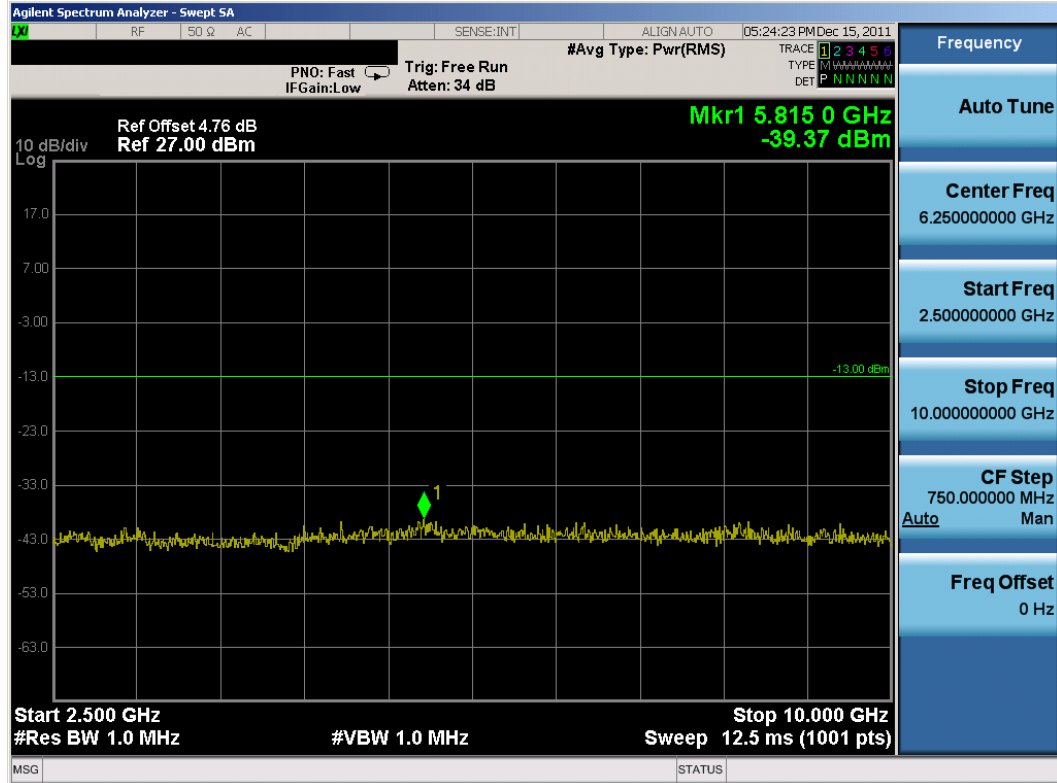


Plot 7-81. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Low Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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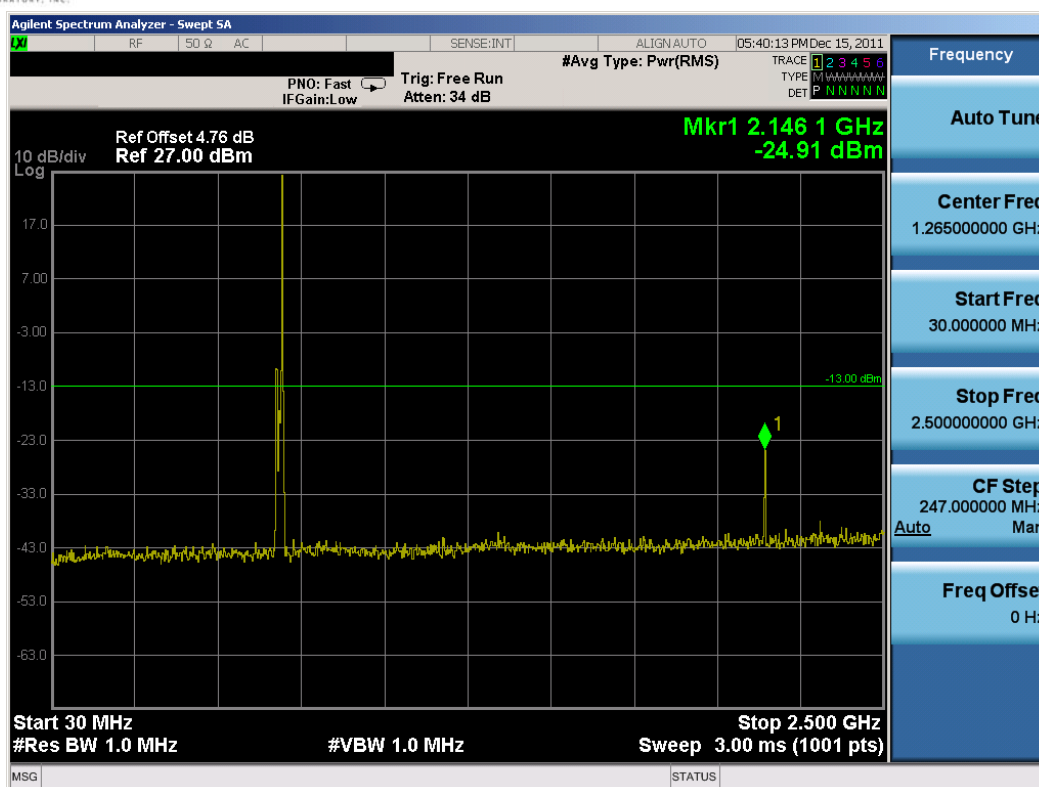


Plot 7-82. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Mid Channel)

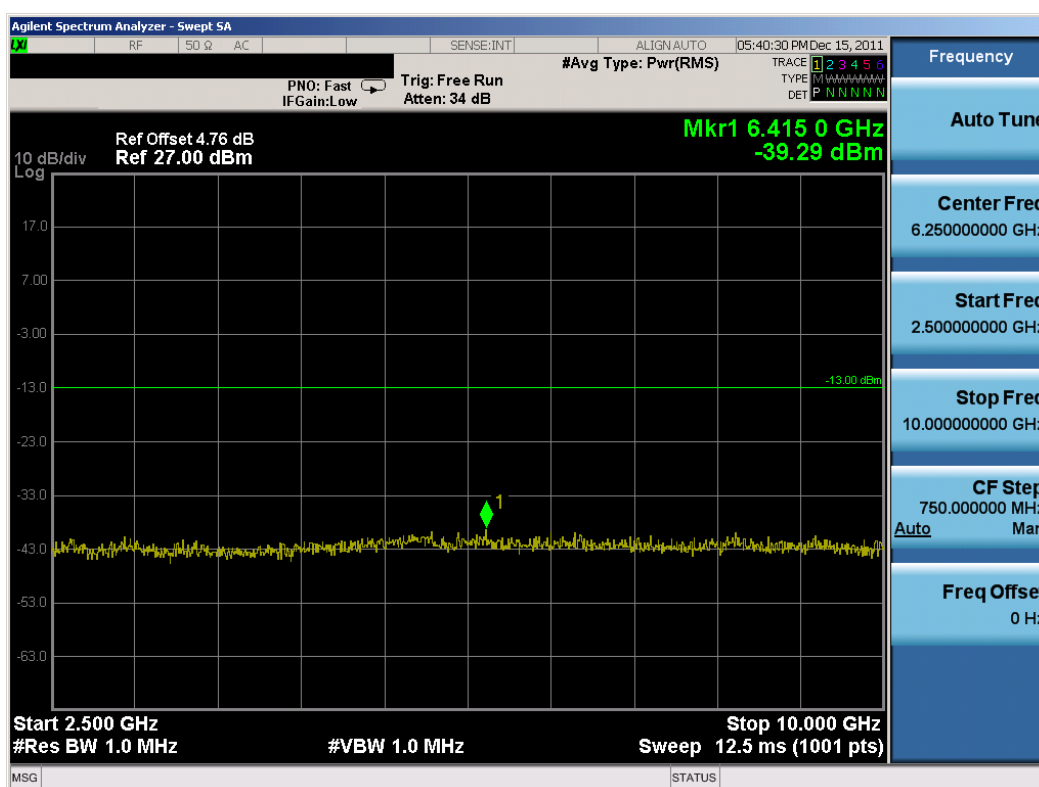


Plot 7-83. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Mid Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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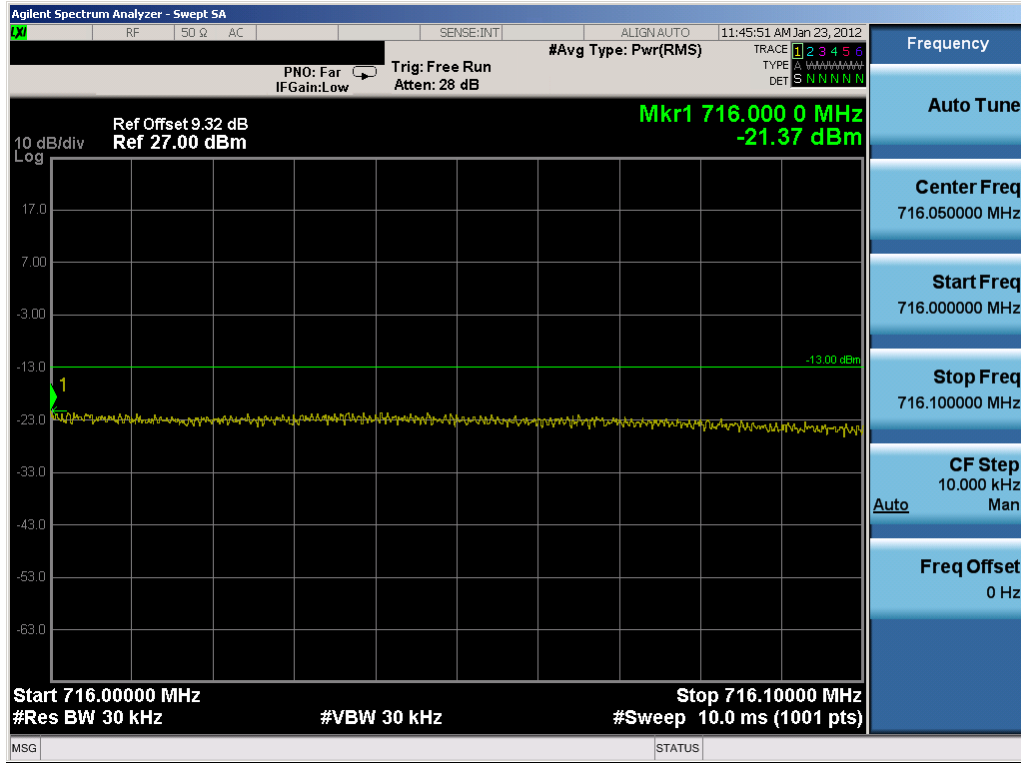


Plot 7-84. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – High Channel)

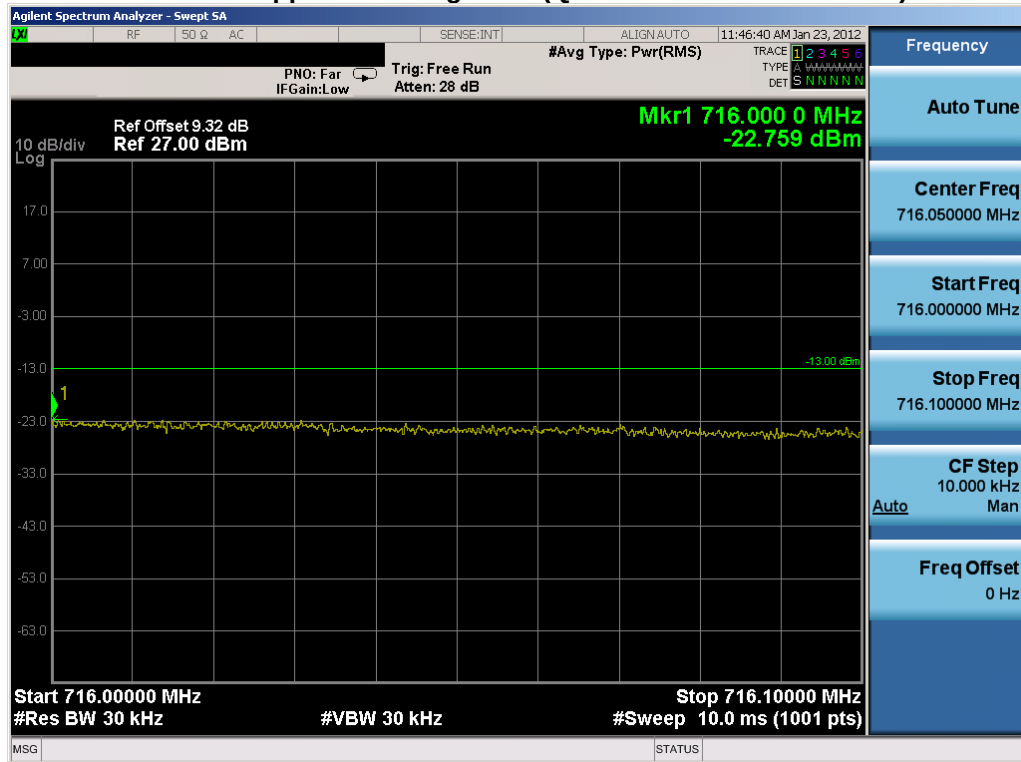


Plot 7-85. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – High Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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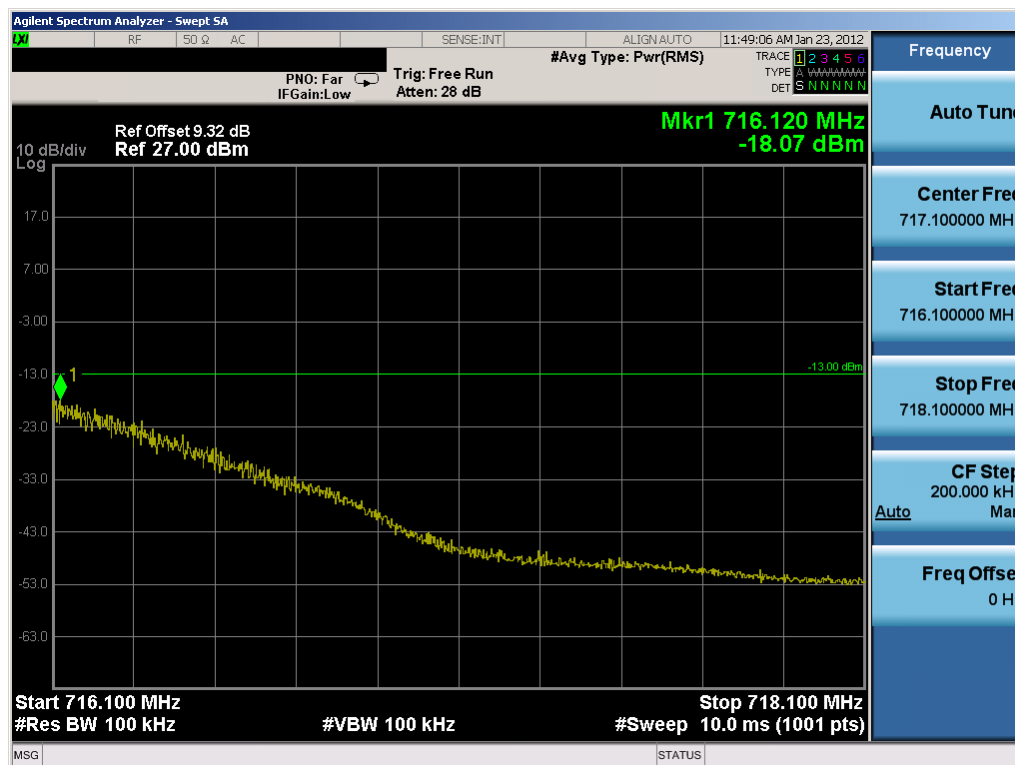


Plot 7-86. Upper Band Edge Plot (QPSK - RB Size 1 Offset 49)

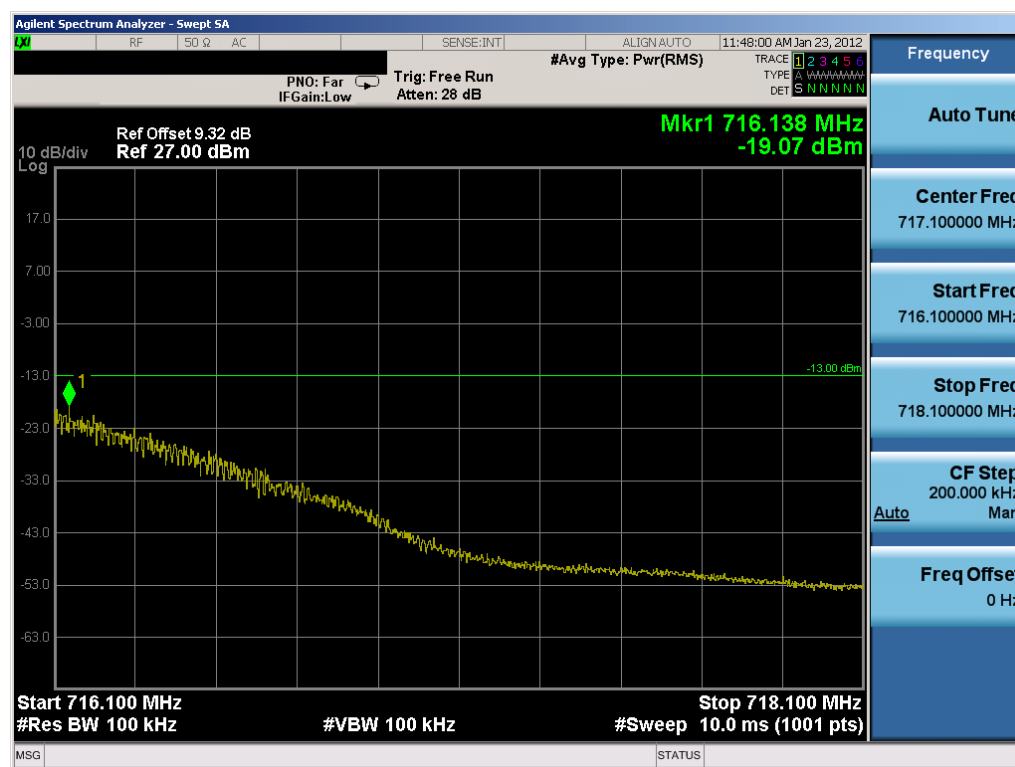


Plot 7-87. Upper Band Edge Plot (16-QAM - RB Size 1 Offset 49)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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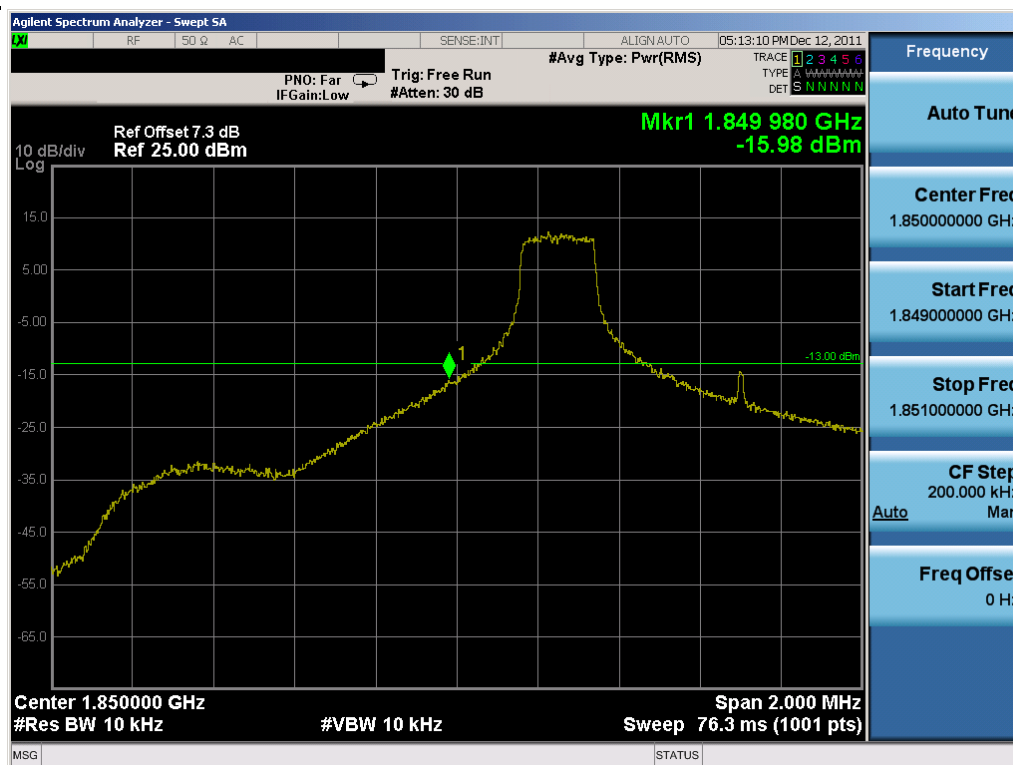
Plot 7-88. Upper Band Edge Plot (QPSK – RB Size 1 Offset 49)



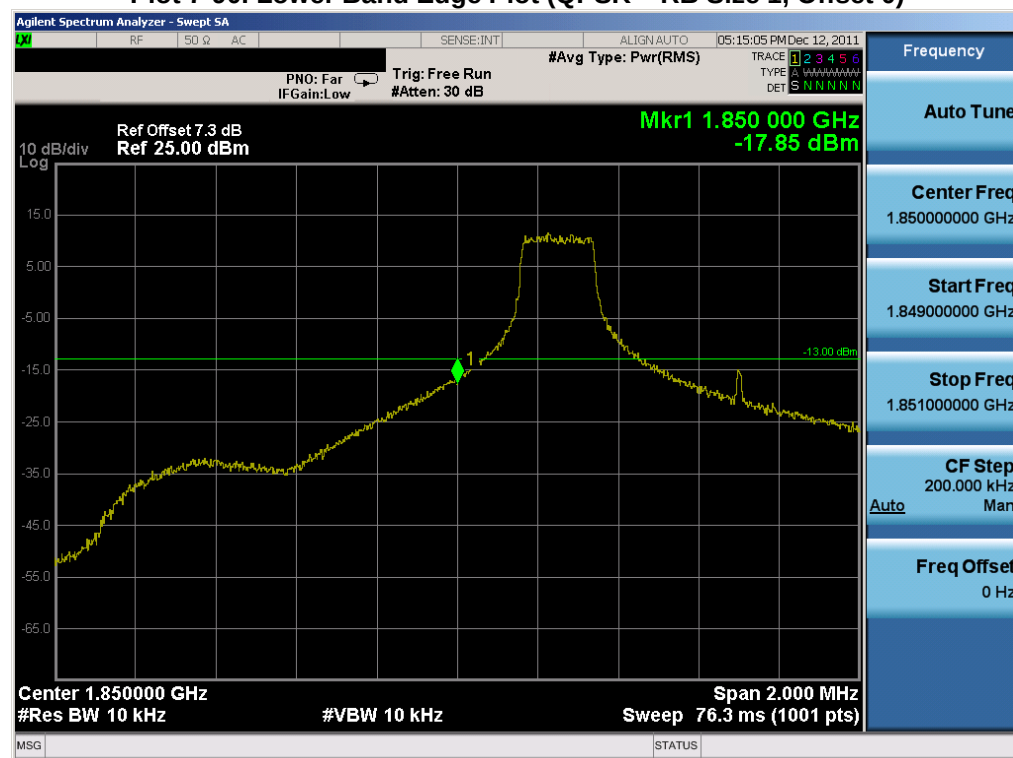
Plot 7-89. Upper Band Edge Plot (16-QAM – RB Size 1 Offset 49)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 79 of 125

BAND 2 1.4MHz

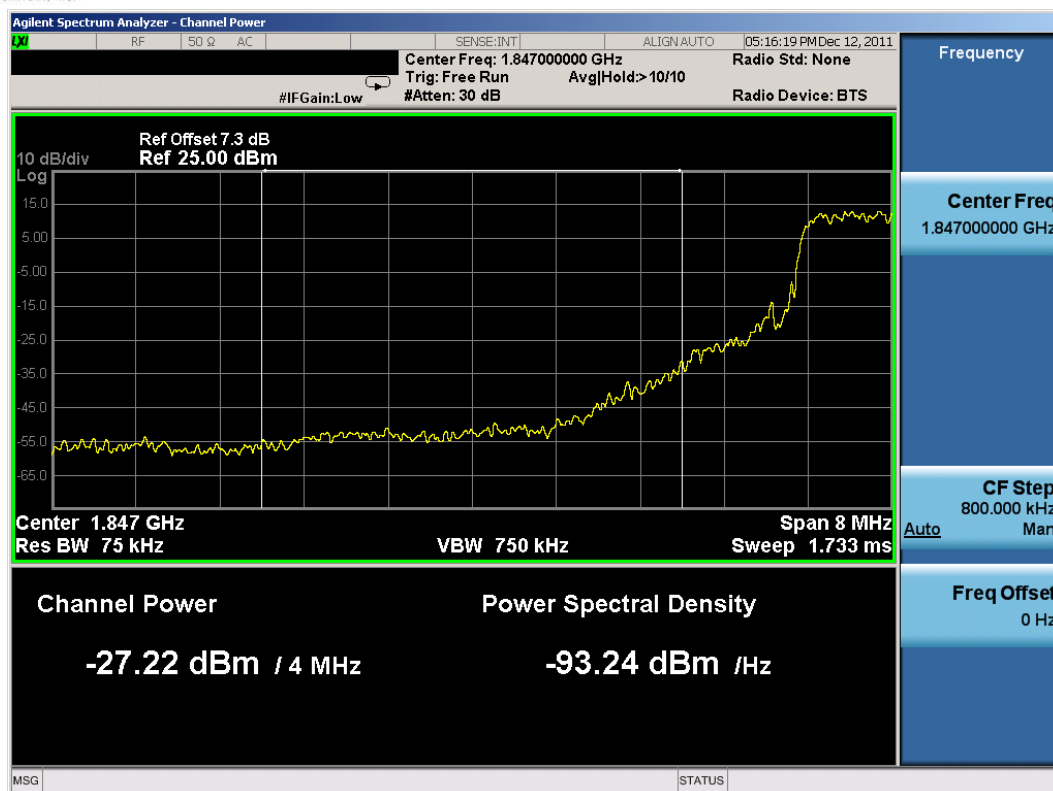


Plot 7-90. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)



Plot 7-91. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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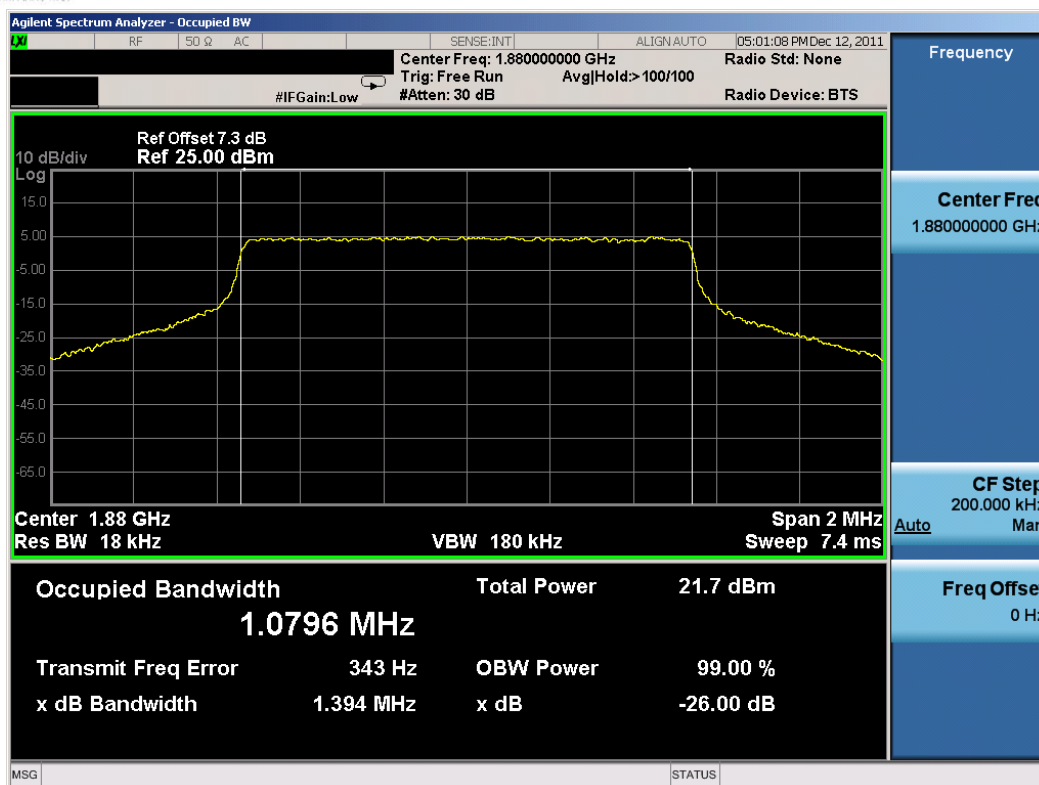


Plot 7-92. Lower Emission Mask (1845 – 1849MHz) Plot (QPSK – RB Size 6)

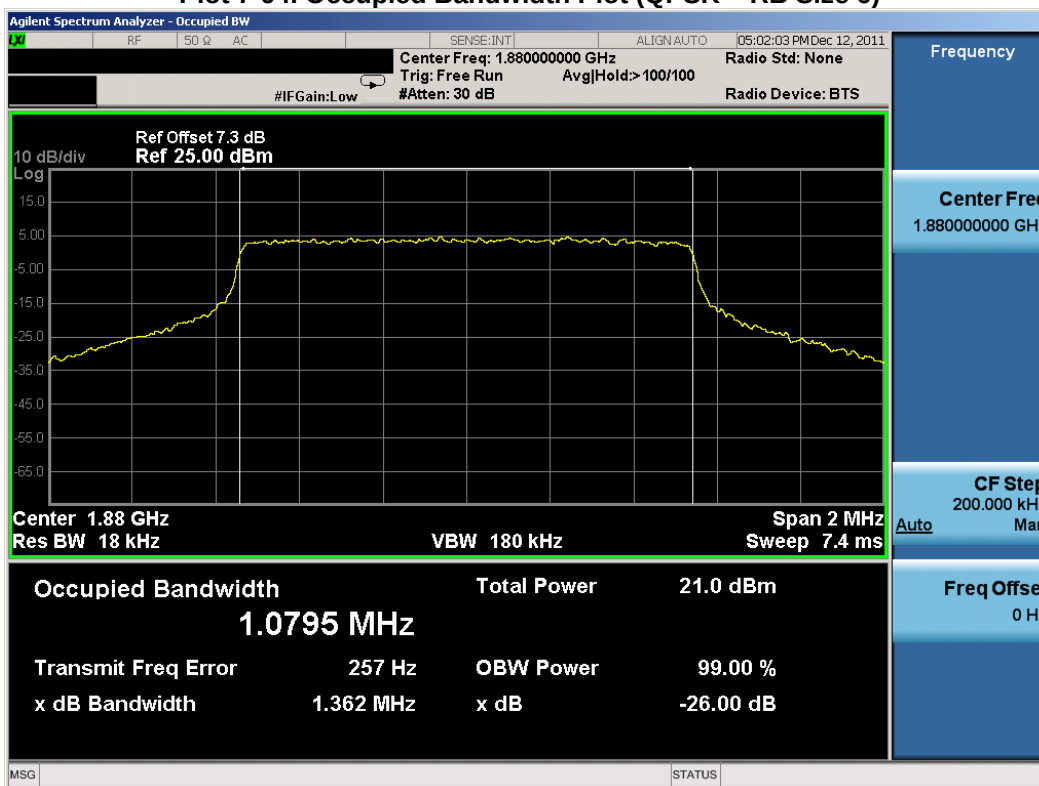


Plot 7-93. Lower Emission Mask (1845 – 1849MHz) Plot (16-QAM – RB Size 6)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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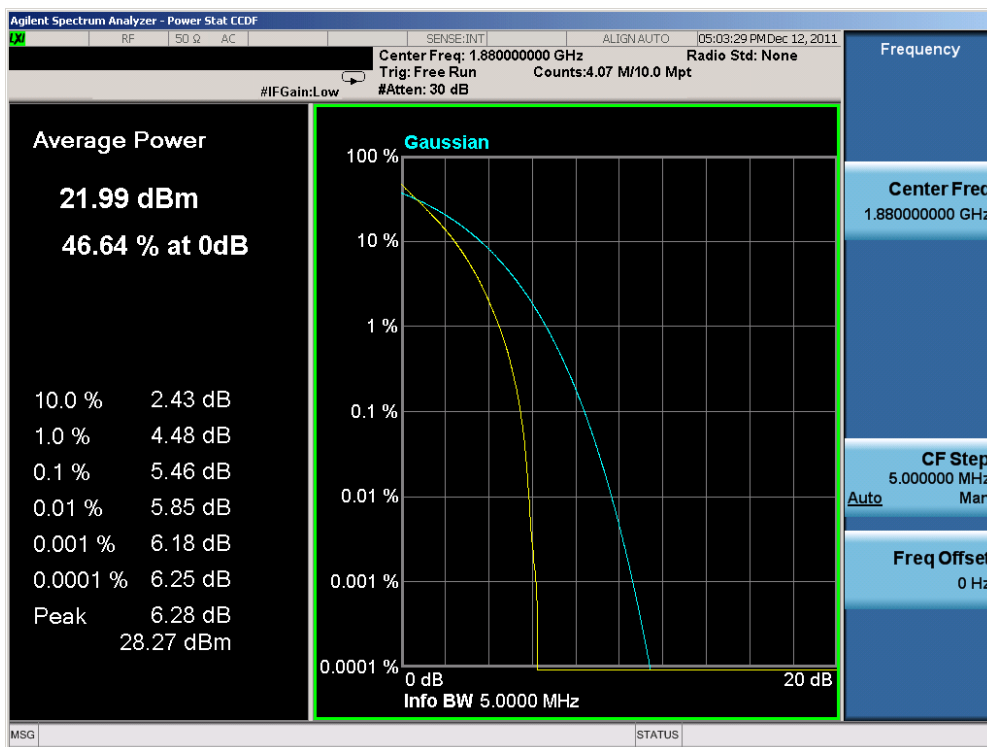


Plot 7-94. Occupied Bandwidth Plot (QPSK – RB Size 6)

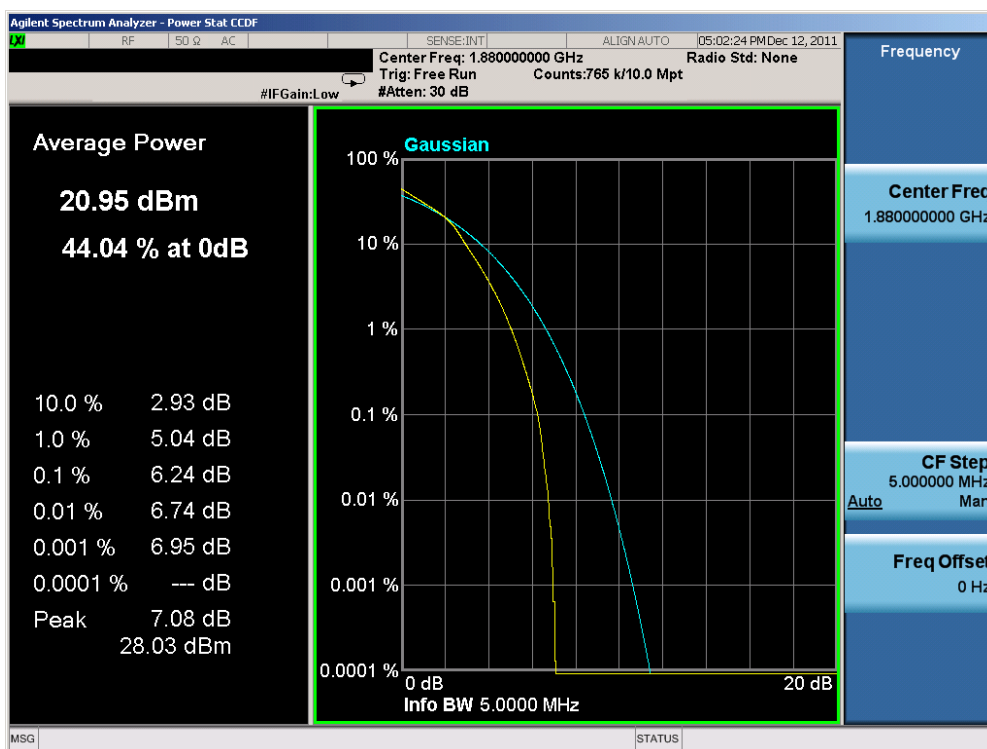


Plot 7-95. Occupied Bandwidth Plot (16-QAM – RB Size 6)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 82 of 125

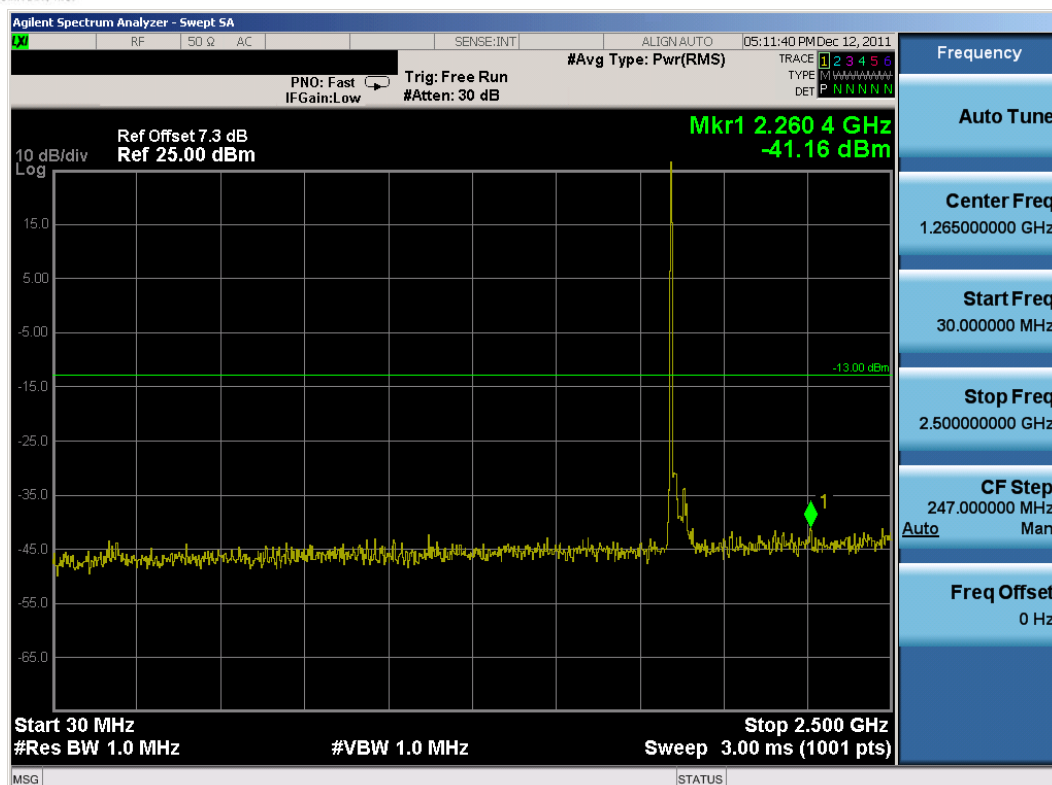


Plot 7-96. Peak to Average Ratio Plot (QPSK)

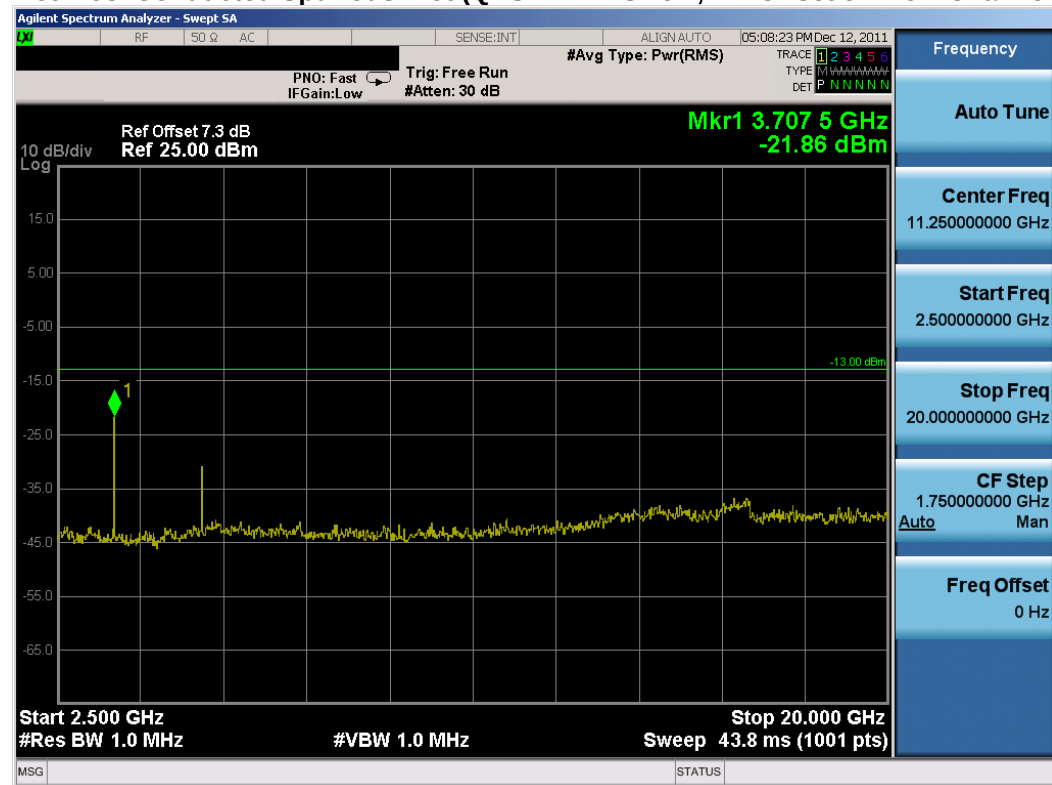


Plot 7-97. Peak to Average Ratio Plot (16QAM)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 83 of 125

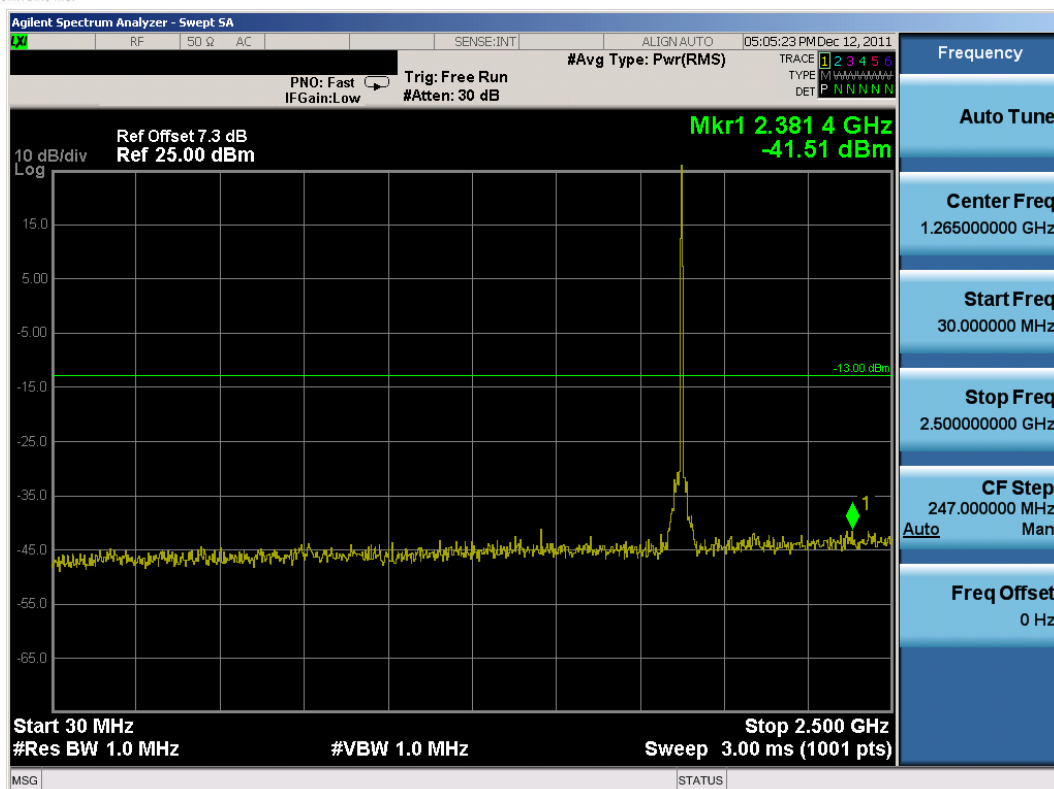


Plot 7-98. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Low Channel)

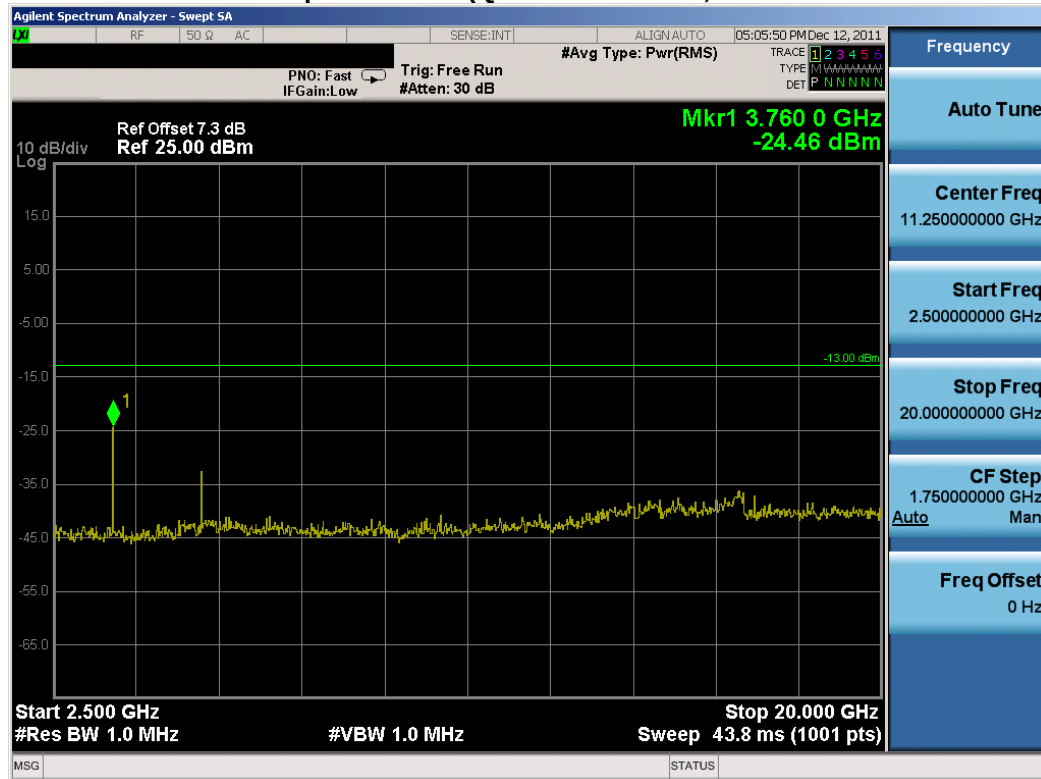


Plot 7-99. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Low Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 84 of 125

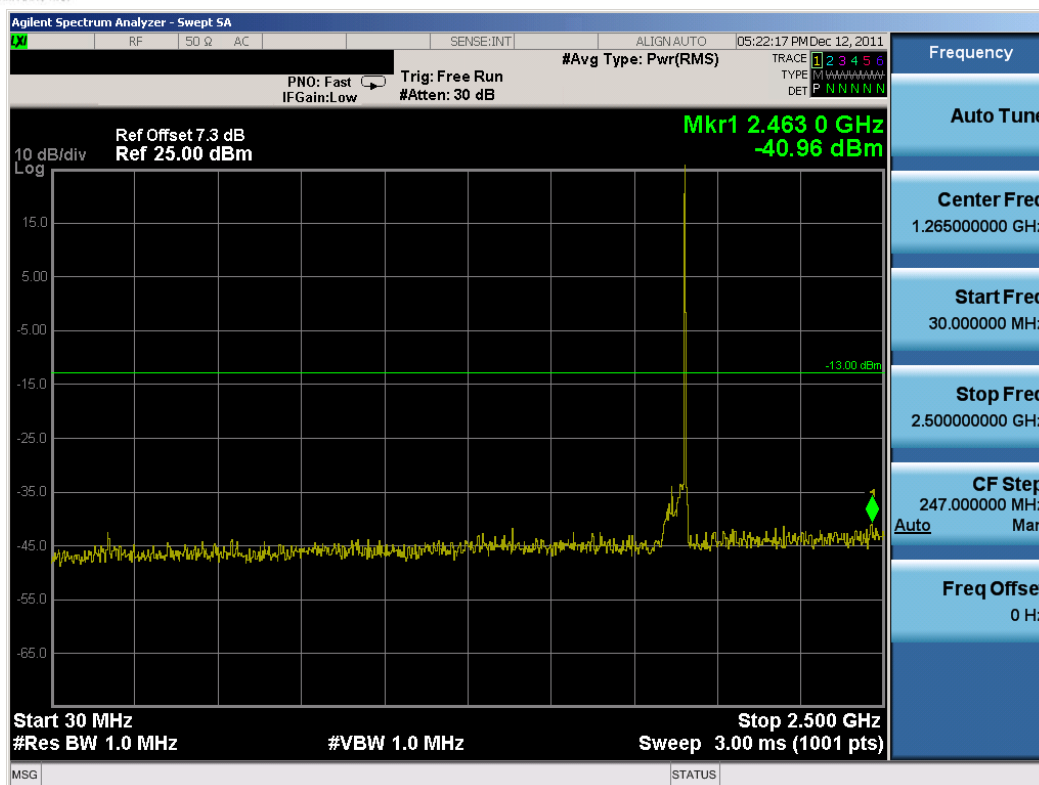


Plot 7-100. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Mid Channel)

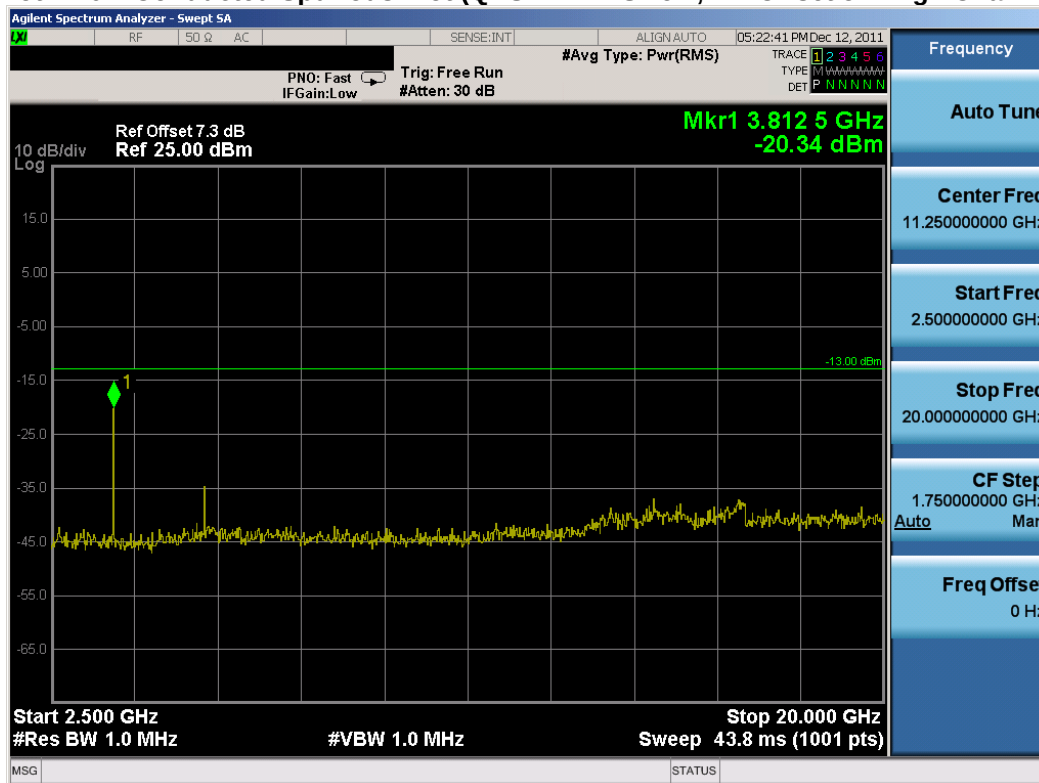


Plot 7-101. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – Mid Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 85 of 125

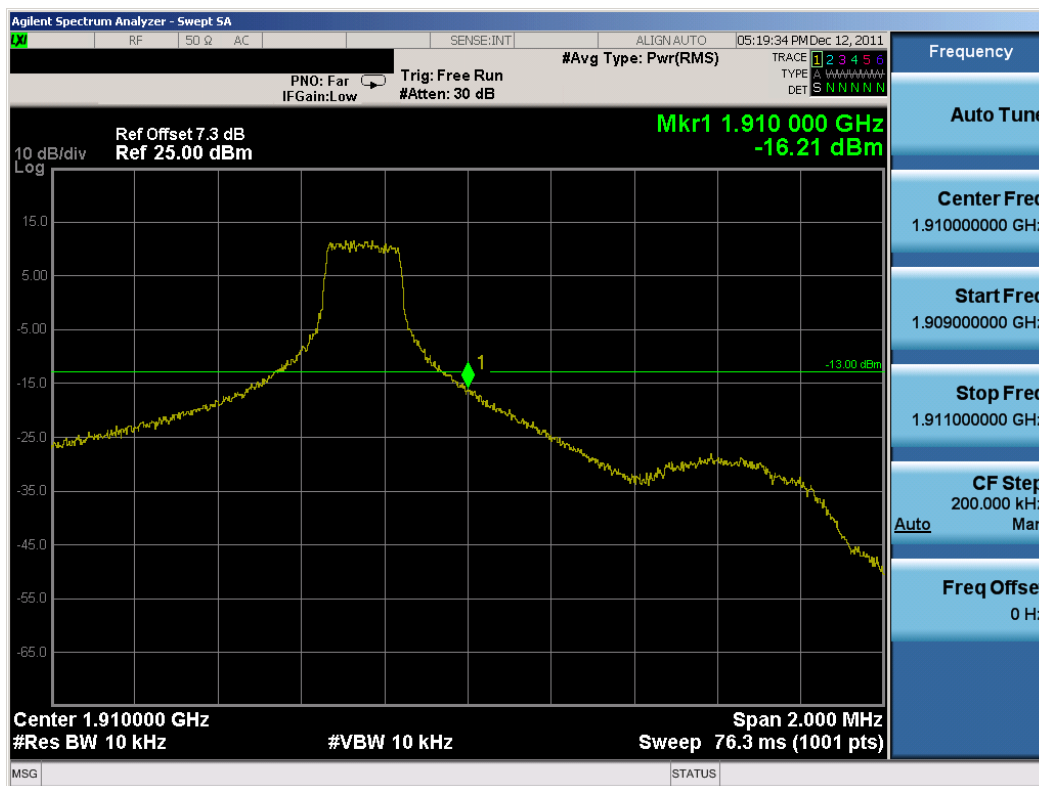


Plot 7-102. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – High Channel)

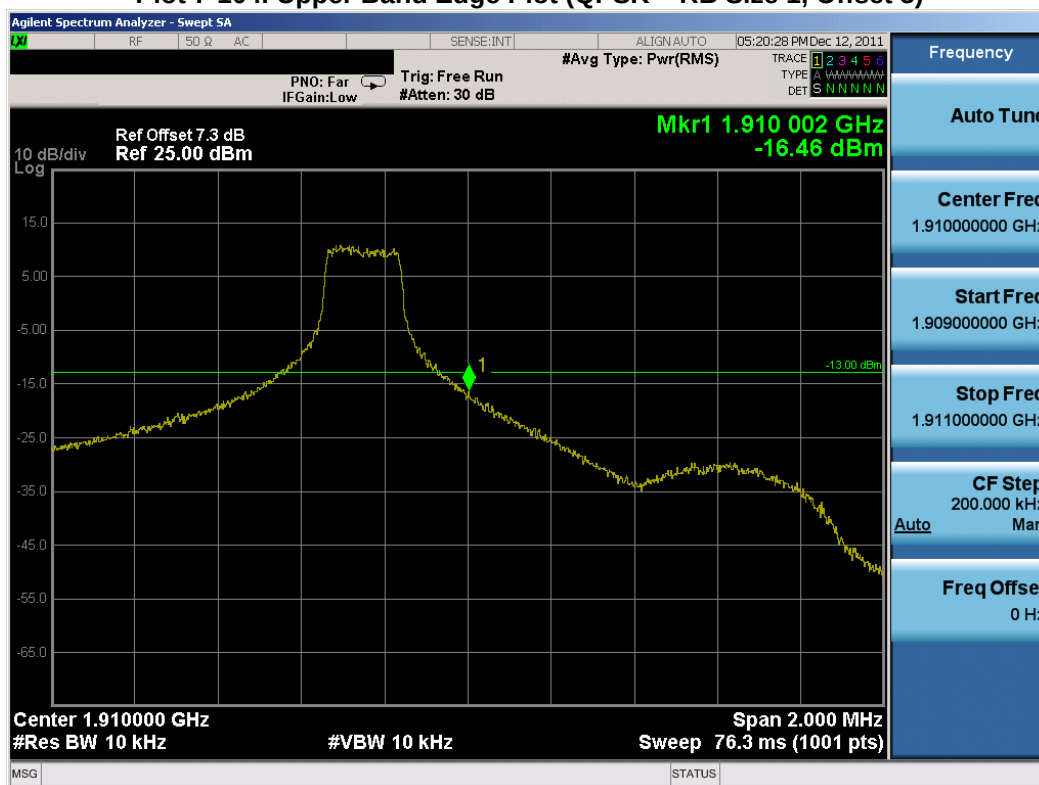


Plot 7-103. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 5 – High Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 86 of 125

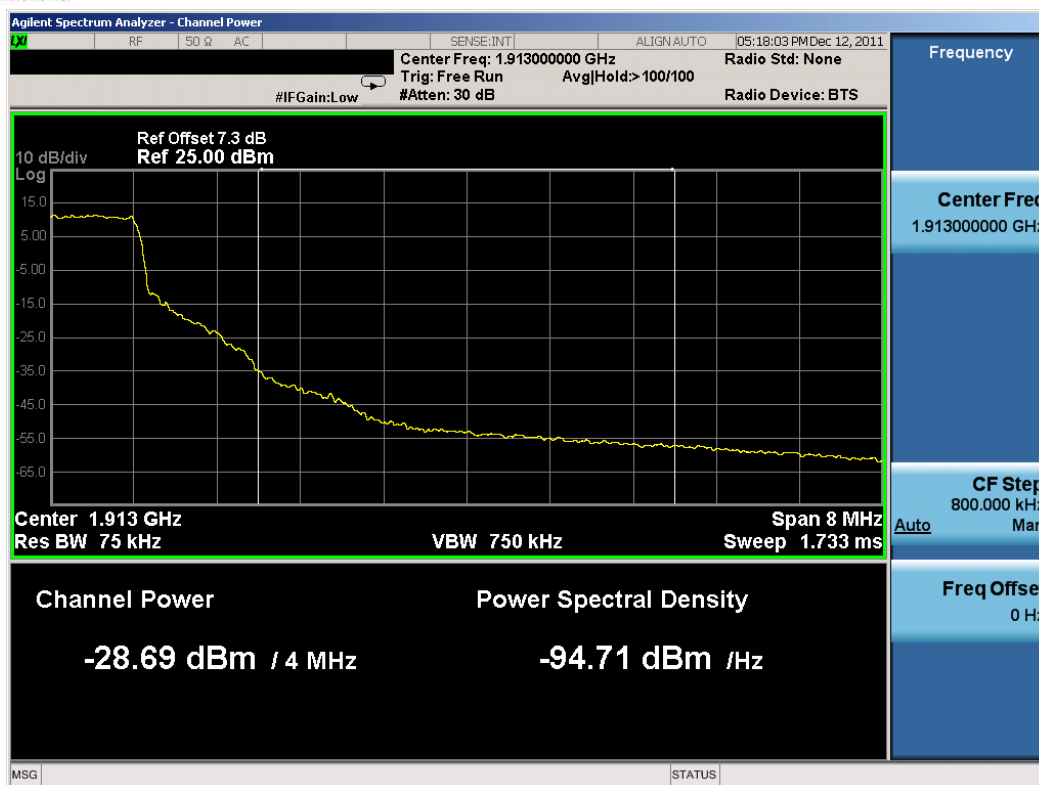


Plot 7-104. Upper Band Edge Plot (QPSK - RB Size 1, Offset 5)



Plot 7-105. Upper Band Edge Plot (16-QAM - RB Size 1, Offset 5)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 87 of 125



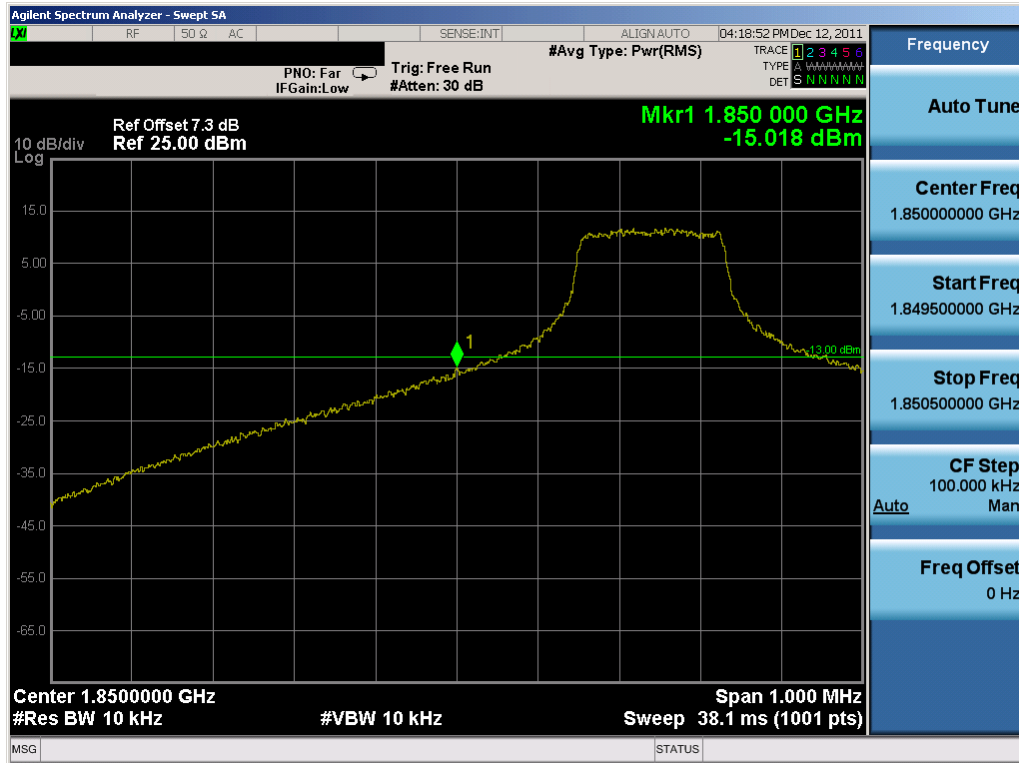
Plot 7-106. Upper Emission Mask (1911 – 1915MHz) Plot (QPSK – RB Size 6)



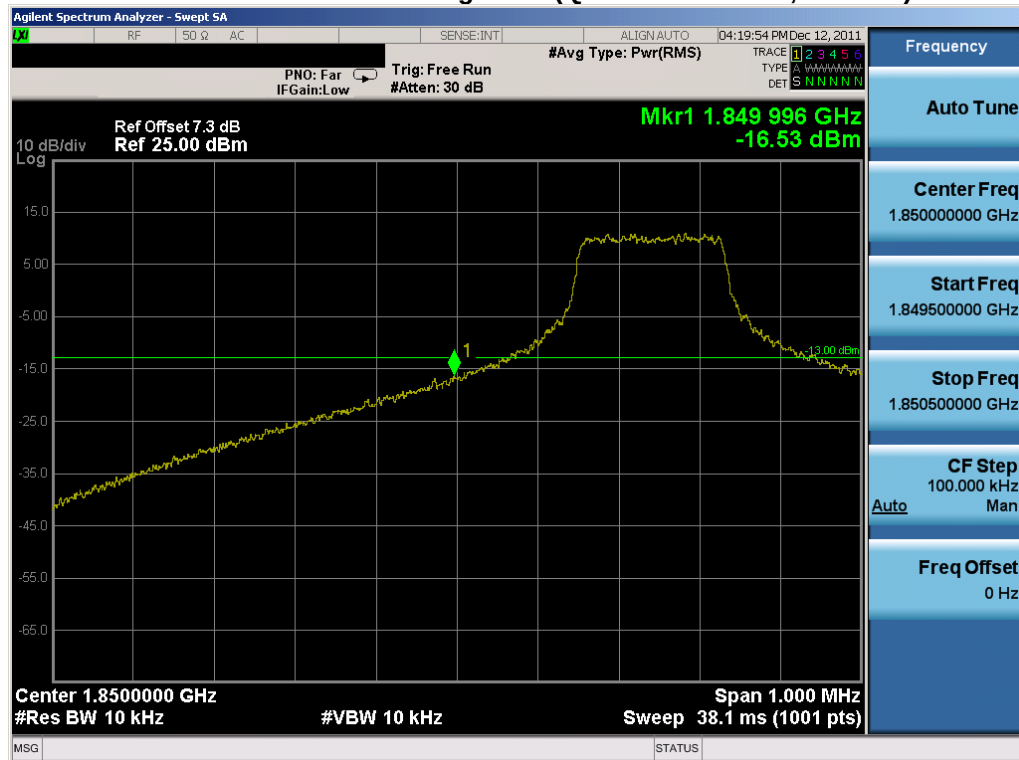
Plot 7-107. Upper Emission Mask (1911 – 1915MHz) Plot (16-QAM – RB Size 6)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 88 of 125

3MHz

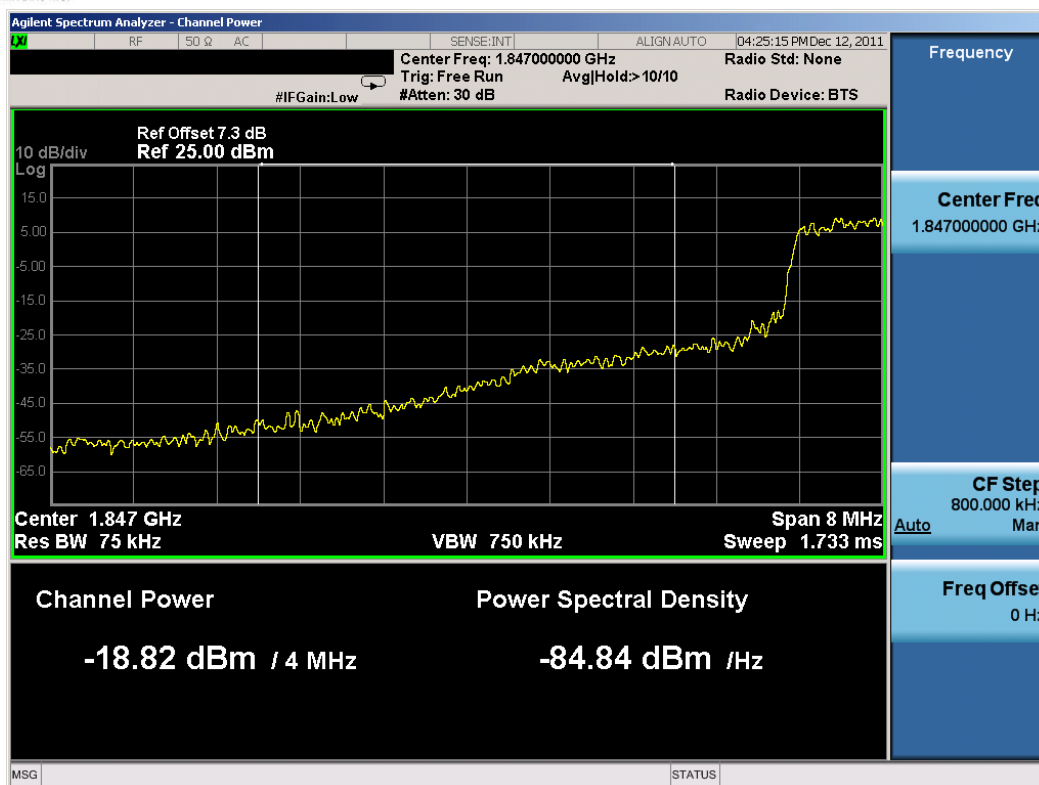


Plot 7-108. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)

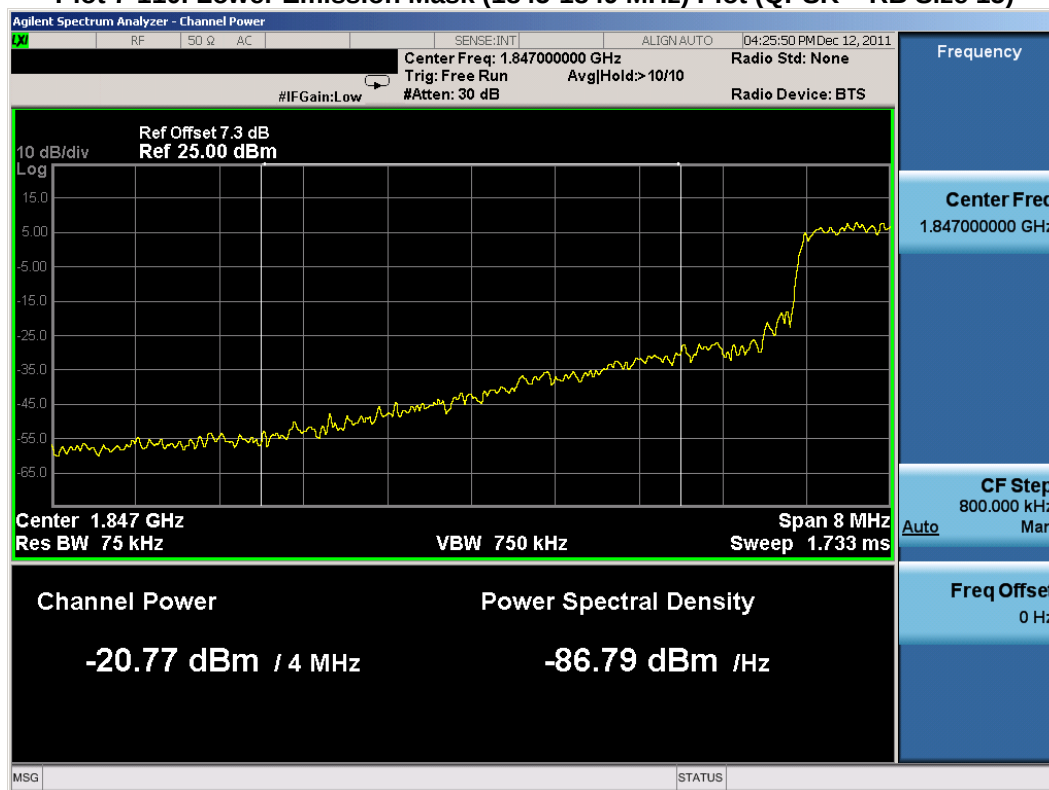


Plot 7-109. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 89 of 125

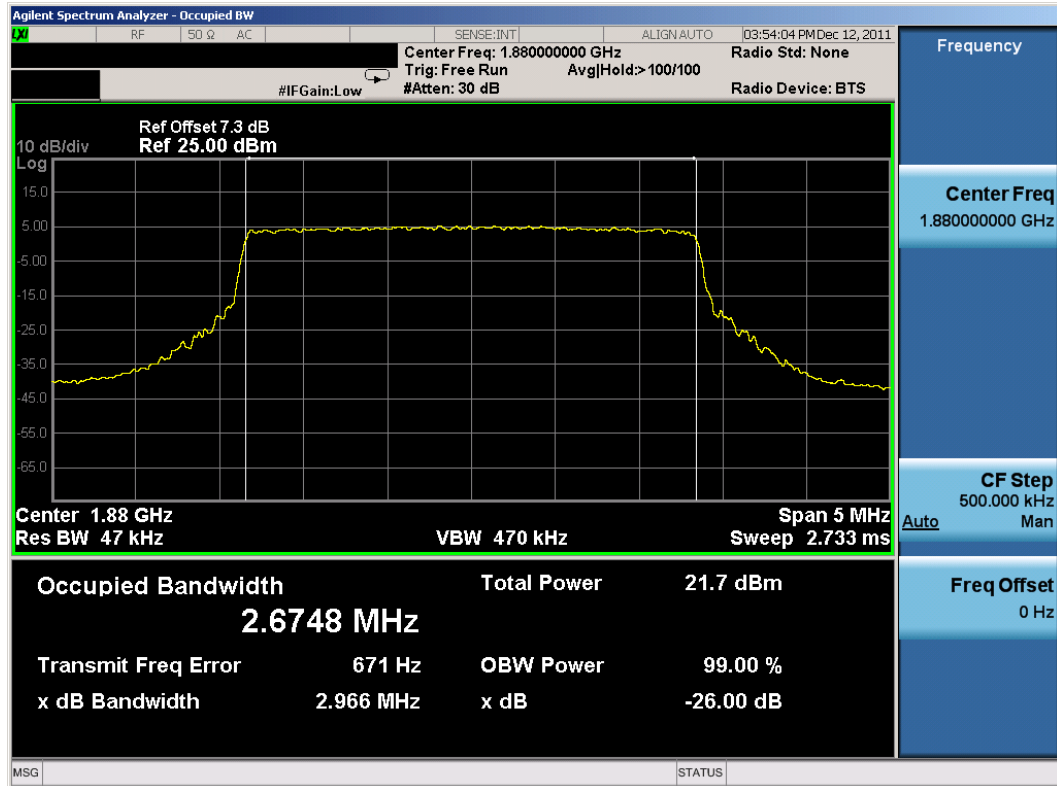


Plot 7-110. Lower Emission Mask (1845-1849 MHz) Plot (QPSK – RB Size 15)

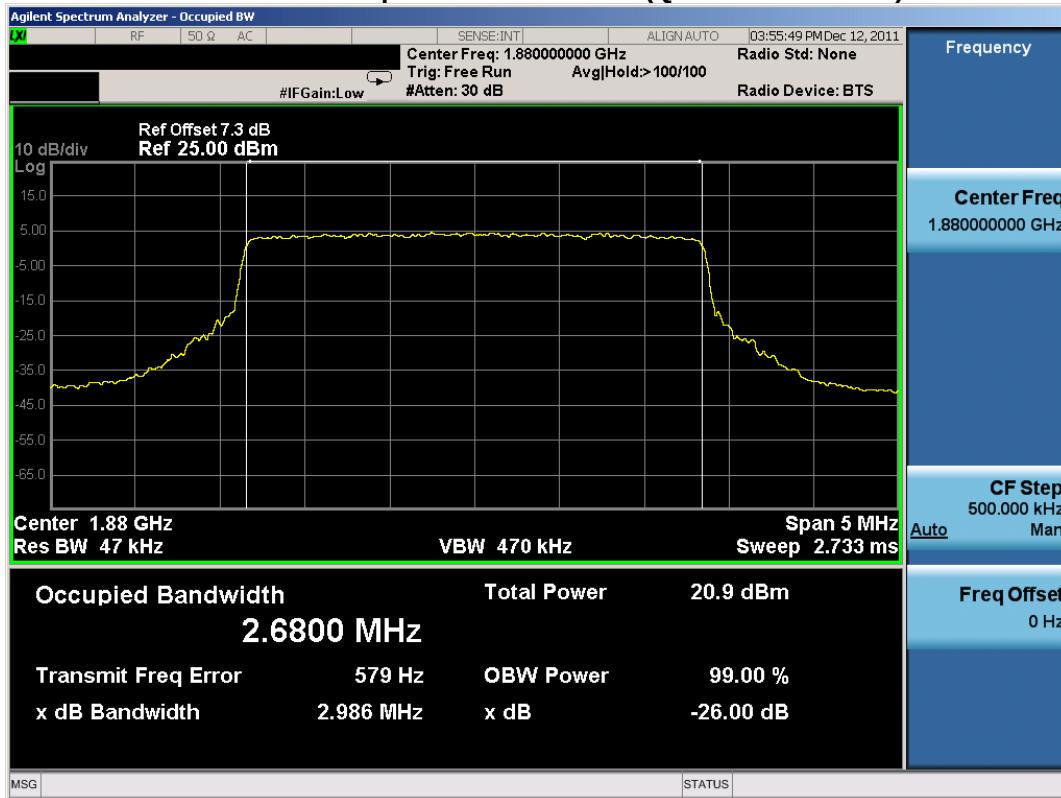


Plot 7-111. Lower Emission Mask (1845-1849 MHz) Plot (16-QAM – RB Size 15)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 90 of 125

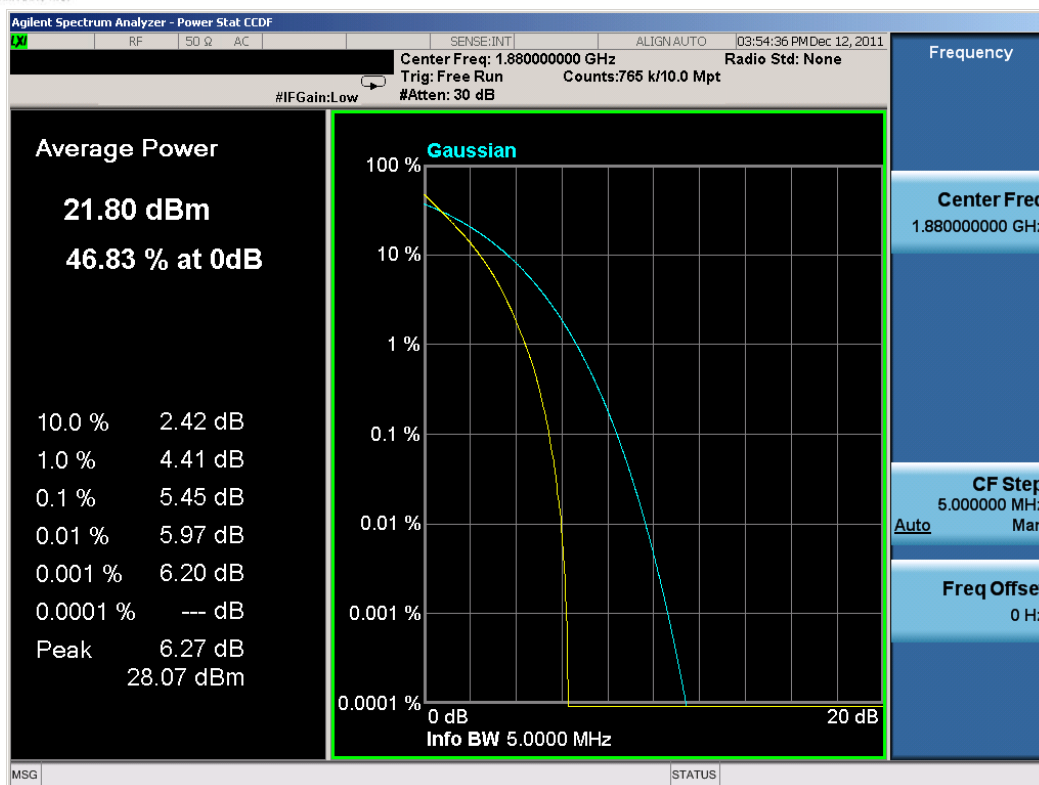


Plot 7-112. Occupied Bandwidth Plot (QPSK – RB Size 15)

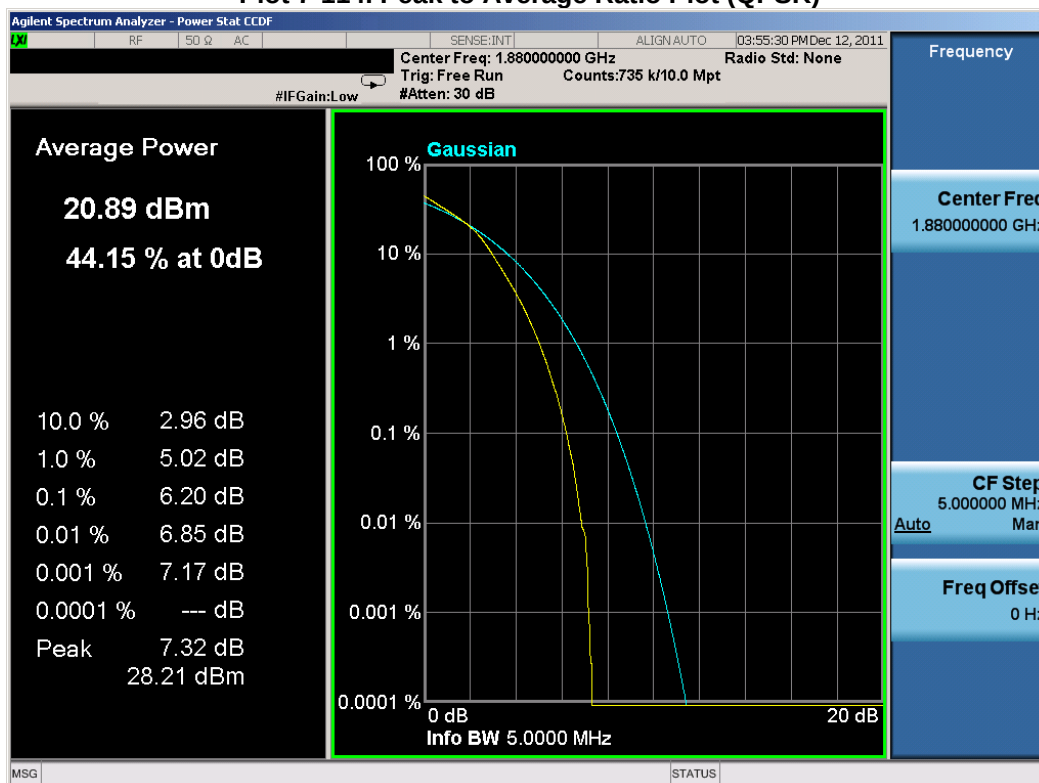


Plot 7-113. Occupied Bandwidth Plot (16-QAM – RB Size 15)

FCC ID: A3LSCHI905U			FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer			Page 91 of 125

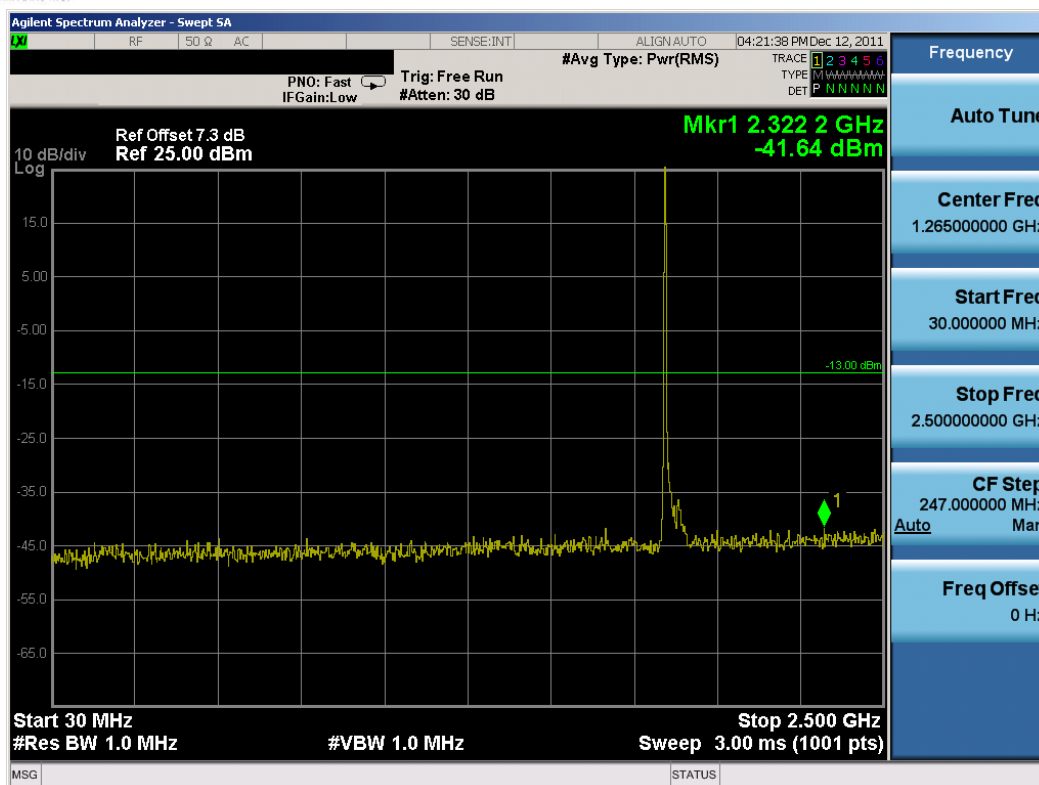


Plot 7-114. Peak to Average Ratio Plot (QPSK)

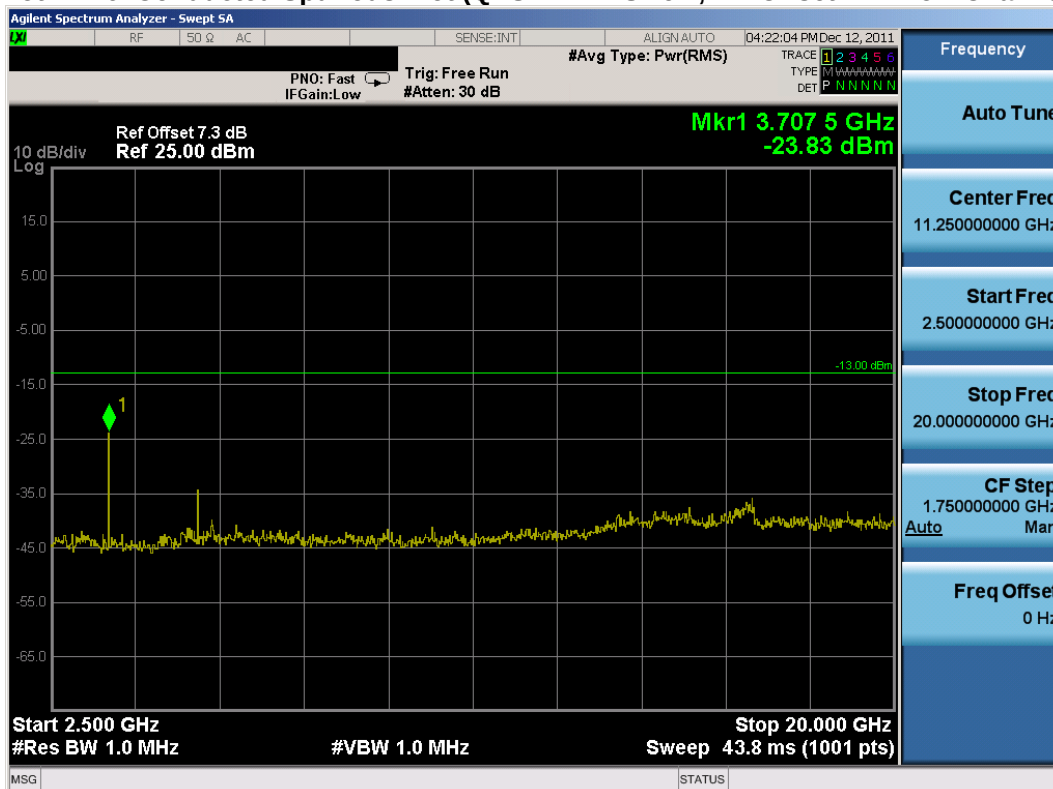


Plot 7-115. Peak to Average Ratio Plot (16QAM)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 92 of 125

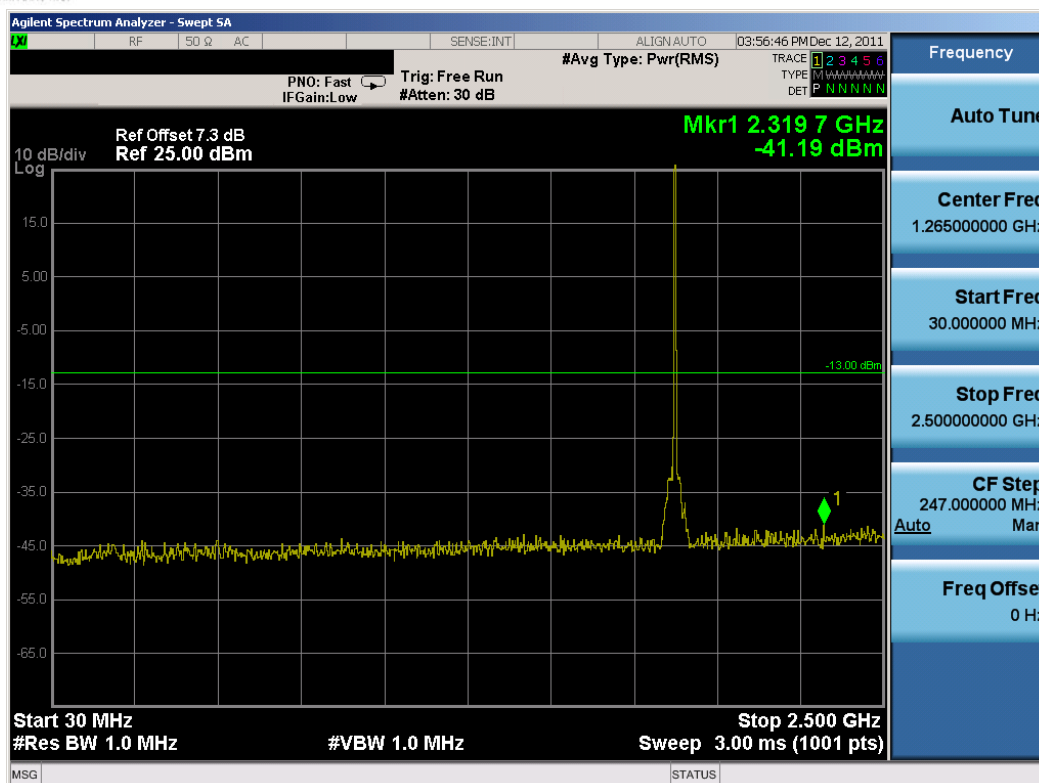


Plot 7-116. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Low Channel)

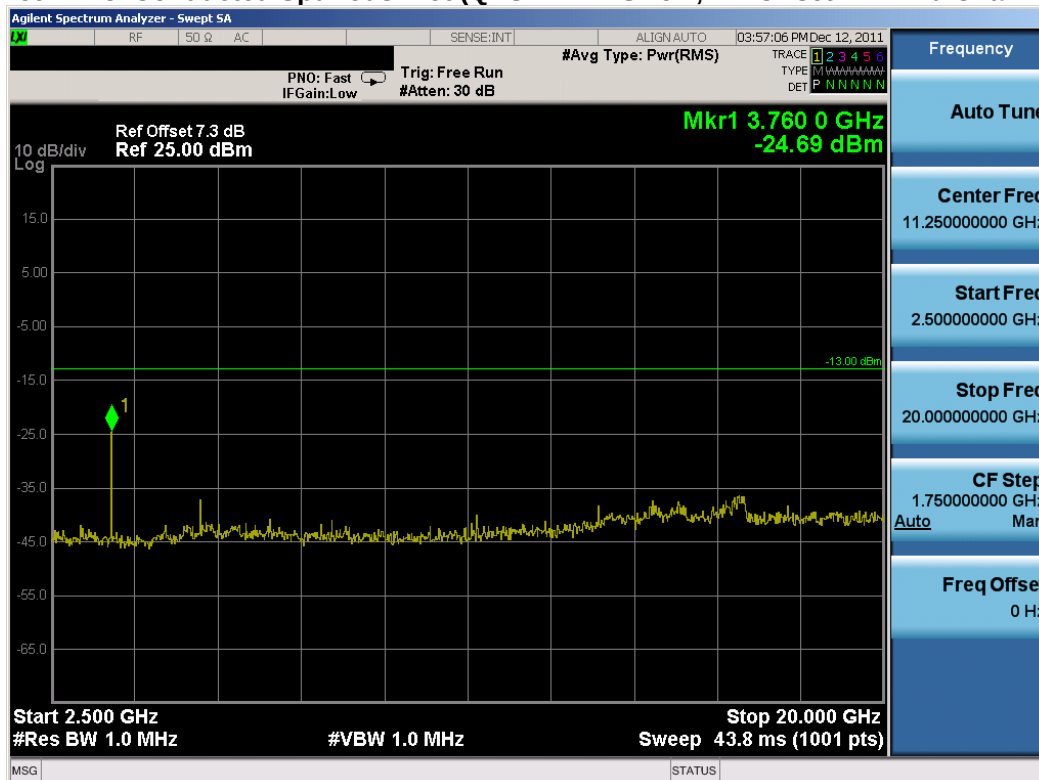


Plot 7-117. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Low Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 93 of 125

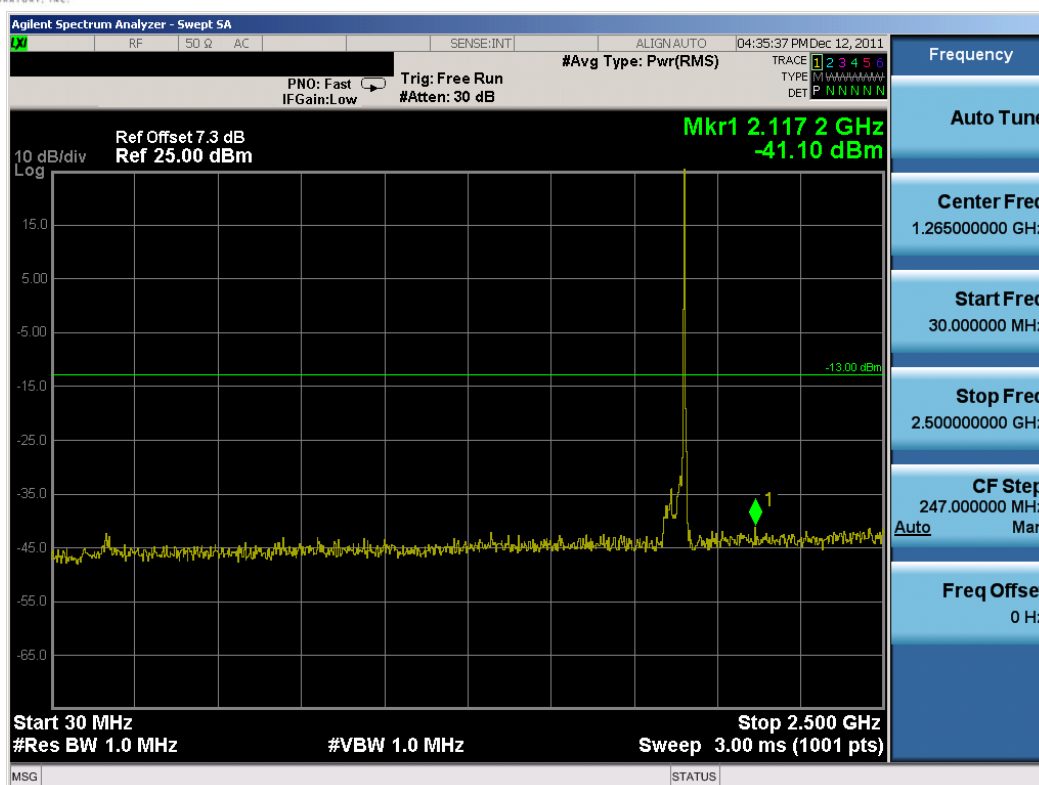


Plot 7-118. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Mid Channel)

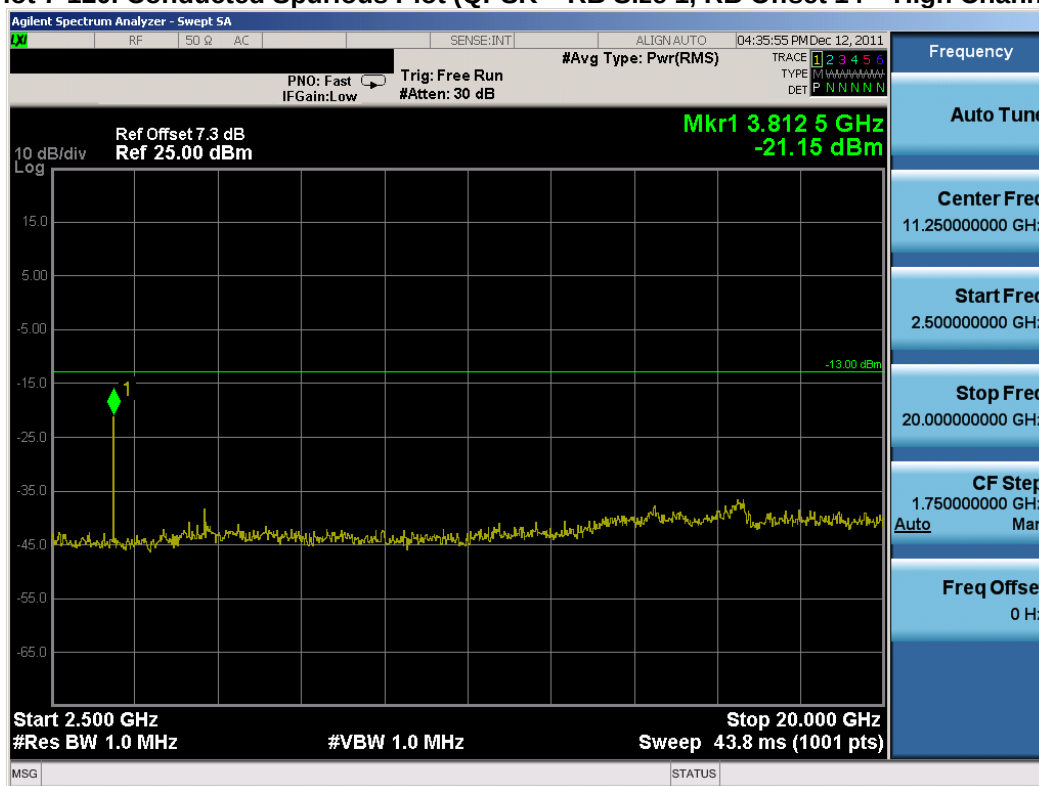


Plot 7-119. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – Mid Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 94 of 125

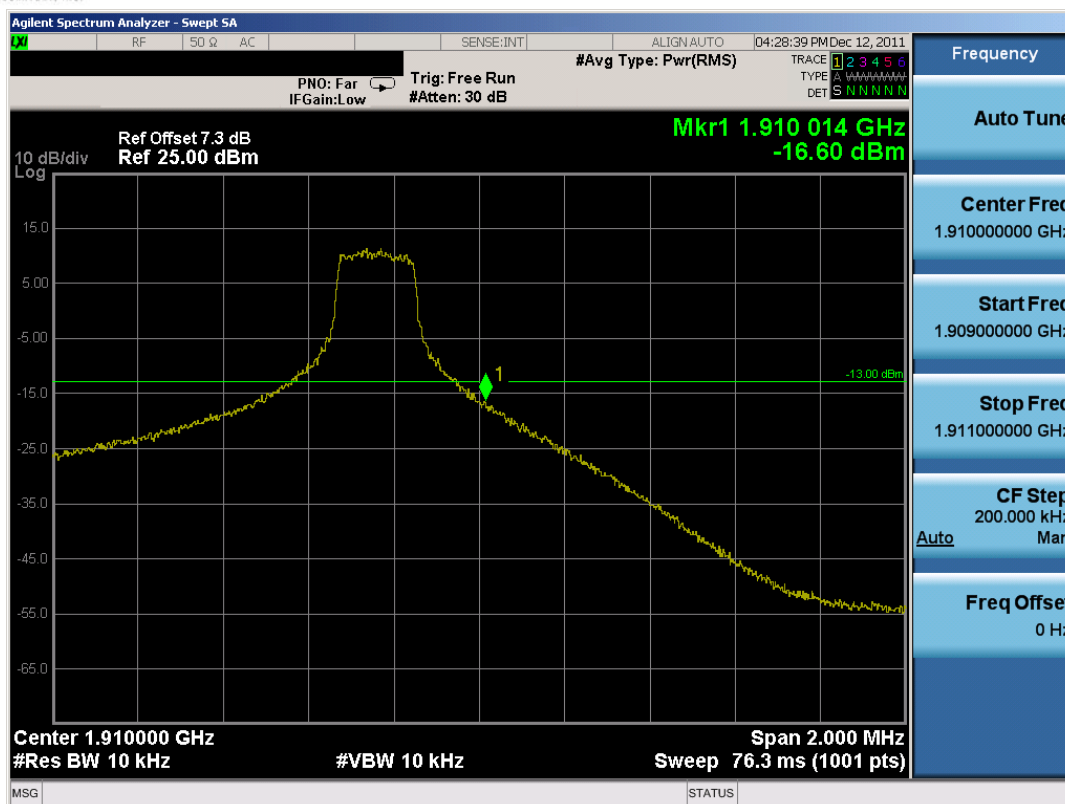


Plot 7-120. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – High Channel)

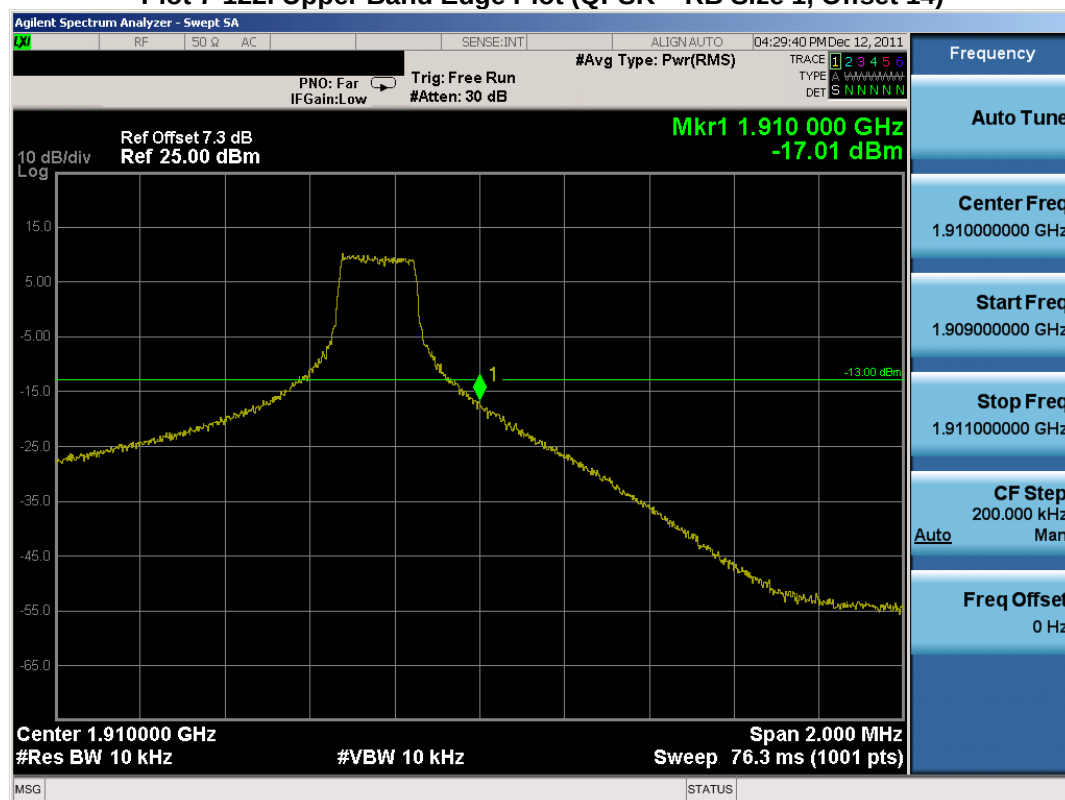


Plot 7-121. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 14 – High Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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Plot 7-122. Upper Band Edge Plot (QPSK – RB Size 1, Offset 14)



Plot 7-123. Upper Band Edge Plot (16-QAM – RB Size 1, Offset 14)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer	Page 96 of 125



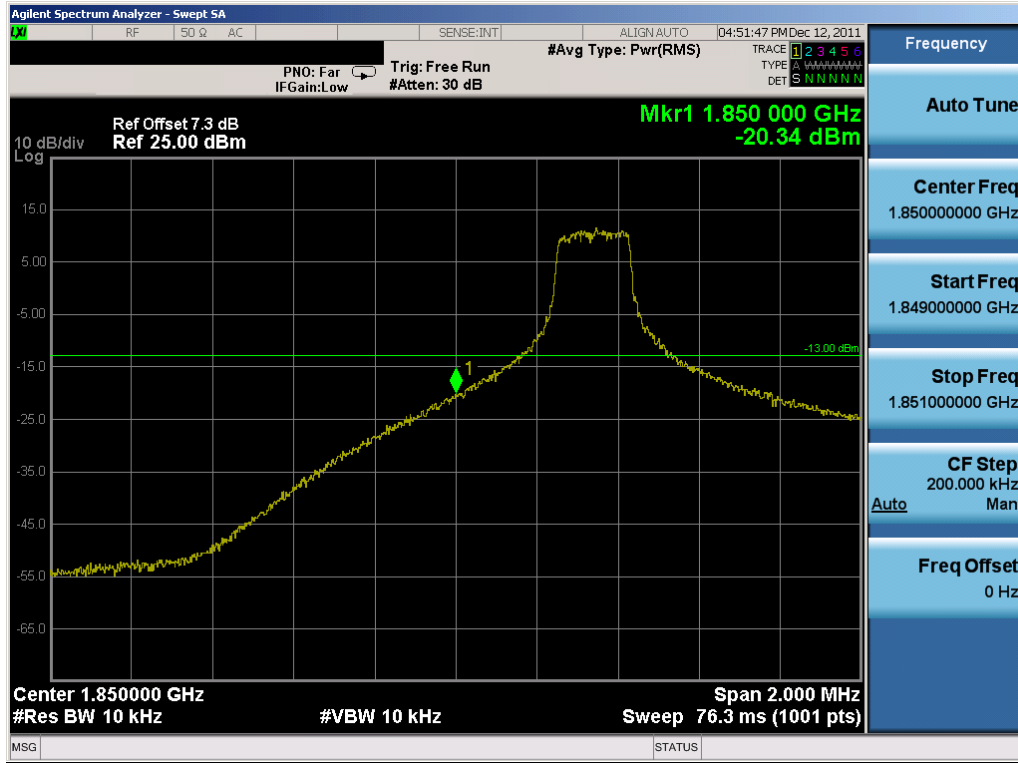
Plot 7-124. Upper Emission Mask (1911-1915 MHz) Plot (QPSK – RB Size 15)



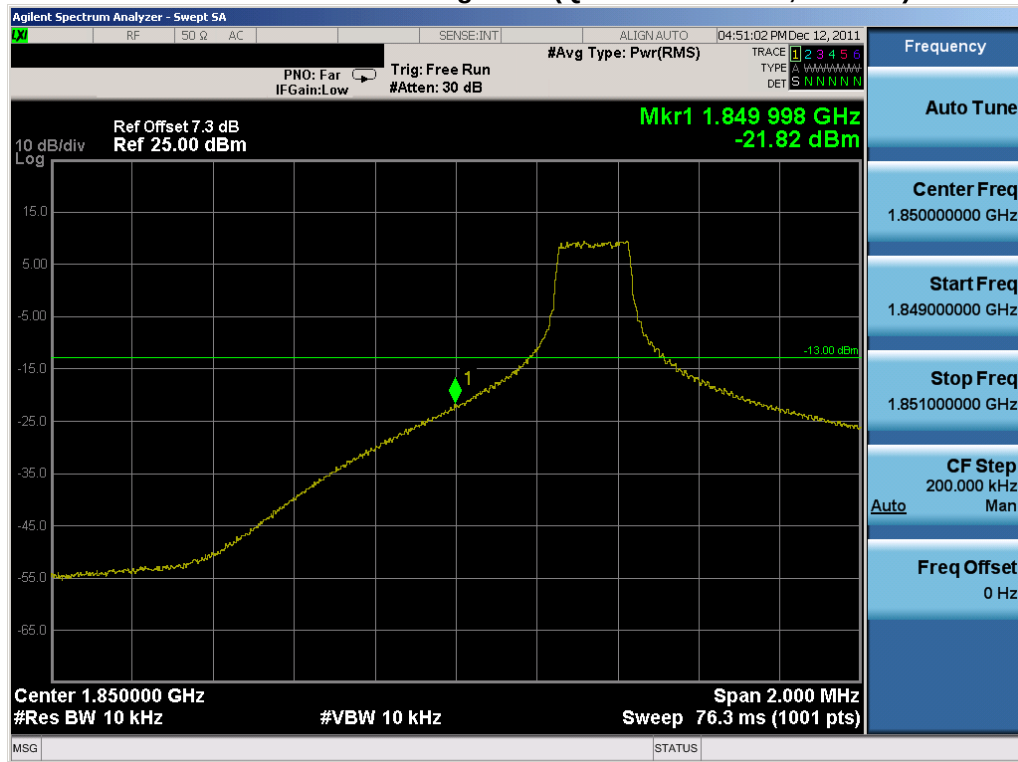
Plot 7-125. Upper Emission Mask (1911-1915 MHz) Plot (16-QAM – RB Size 15)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 97 of 125

5MHz

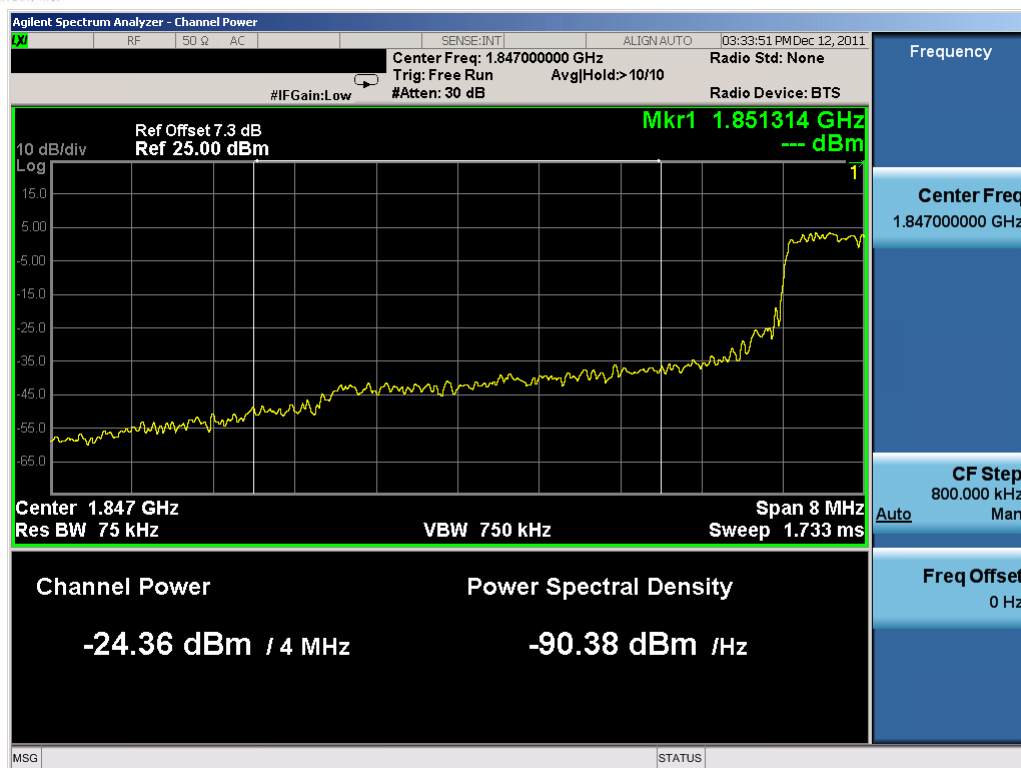


Plot 7-126. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)



Plot 7-127. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 98 of 125

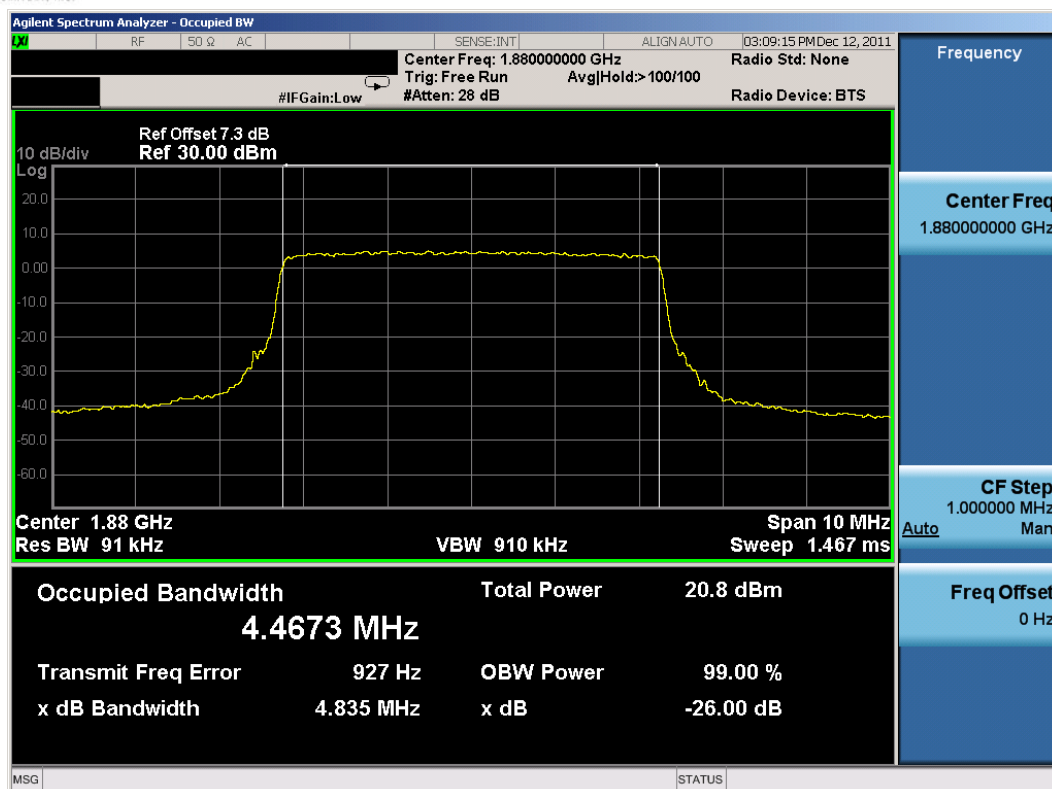


Plot 7-128. Lower Emission Mask (1845-1849MHz) Plot (QPSK – RB Size 25)

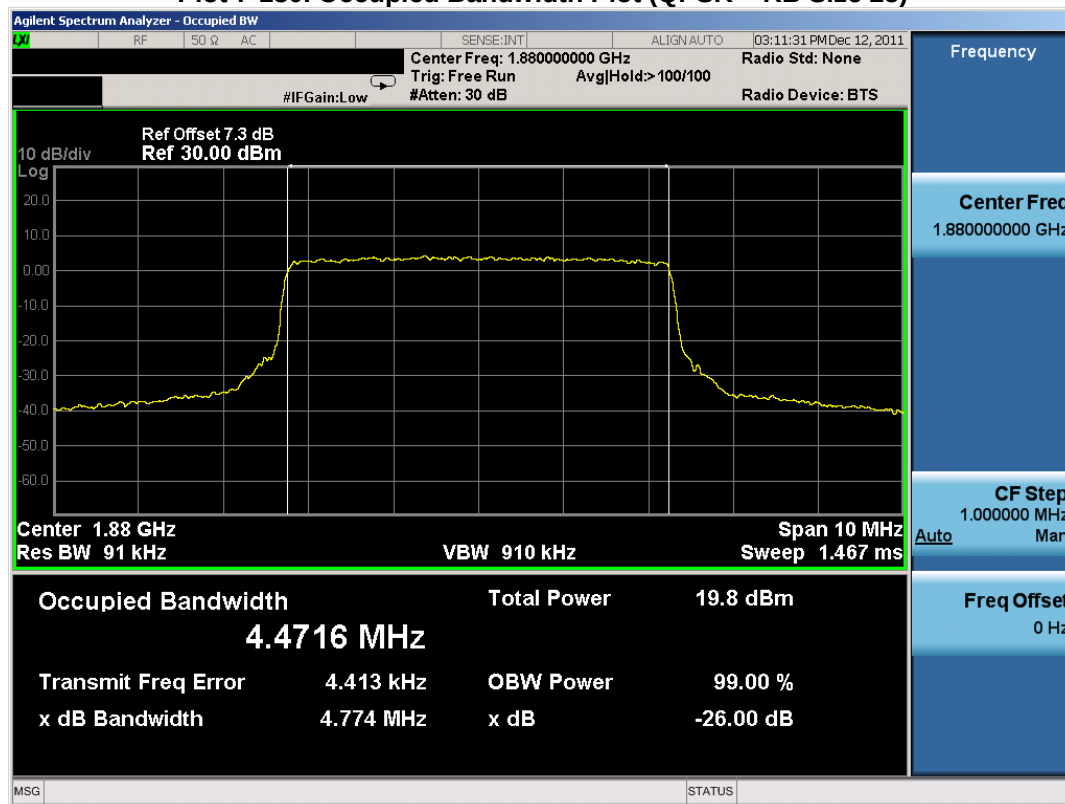


Plot 7-129. Lower Emission Mask (1845-1849MHz) Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 99 of 125

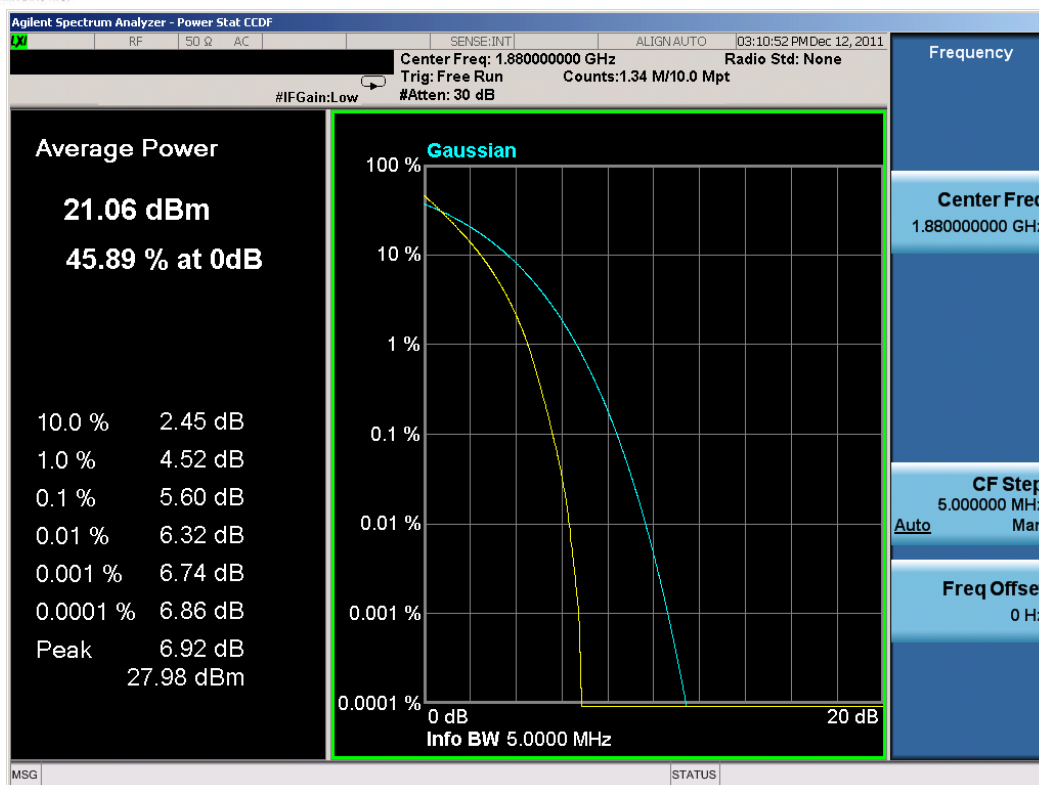


Plot 7-130. Occupied Bandwidth Plot (QPSK – RB Size 25)

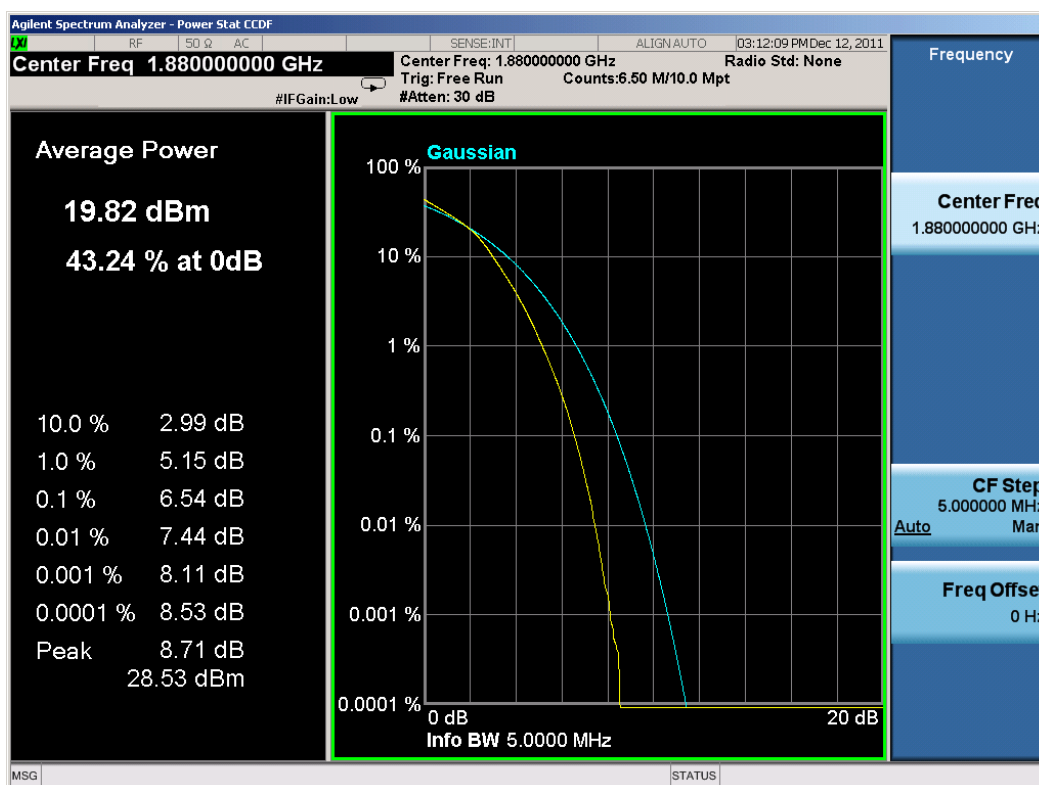


Plot 7-131. Occupied Bandwidth Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U			FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer			Page 100 of 125

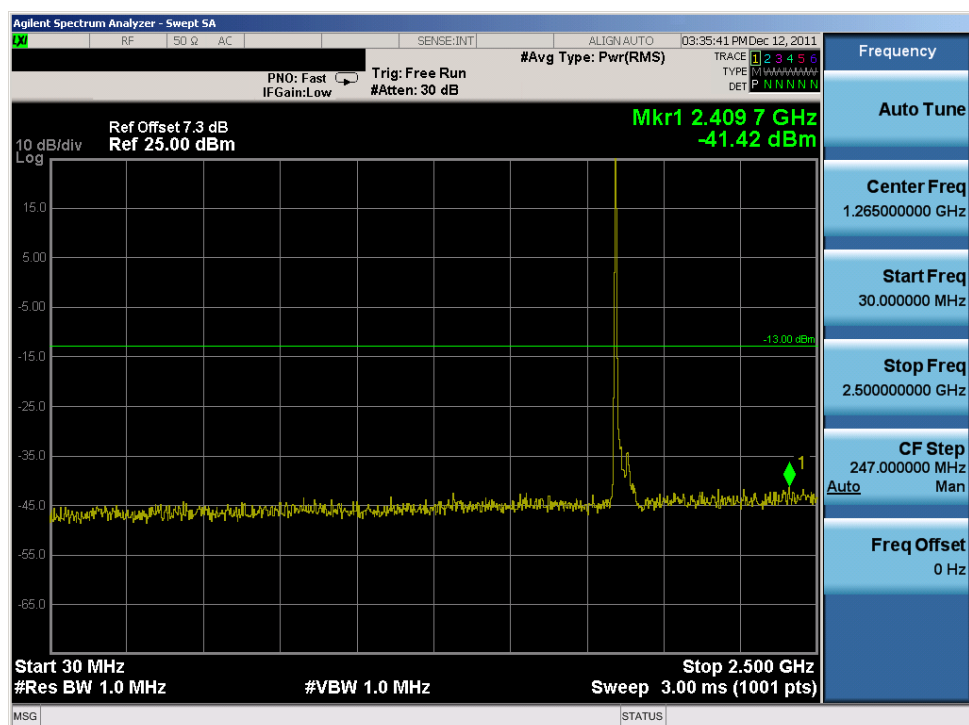


Plot 7-132. Peak to Average Ratio Plot (QPSK)

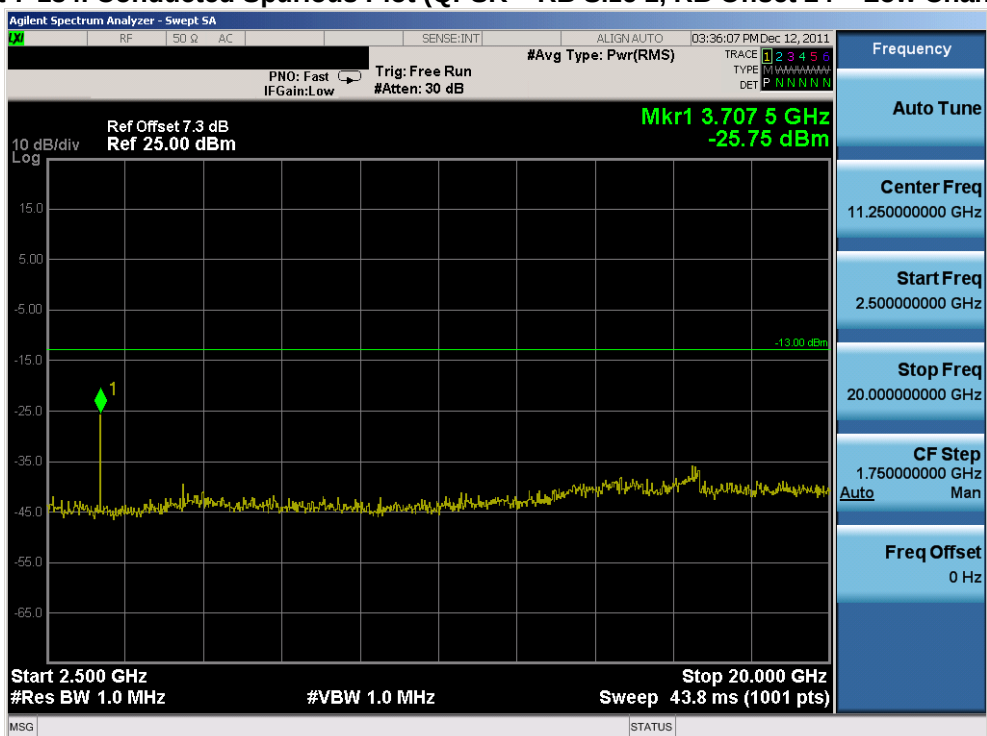


Plot 7-133. Peak to Average Ratio Plot (16QAM)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 101 of 125

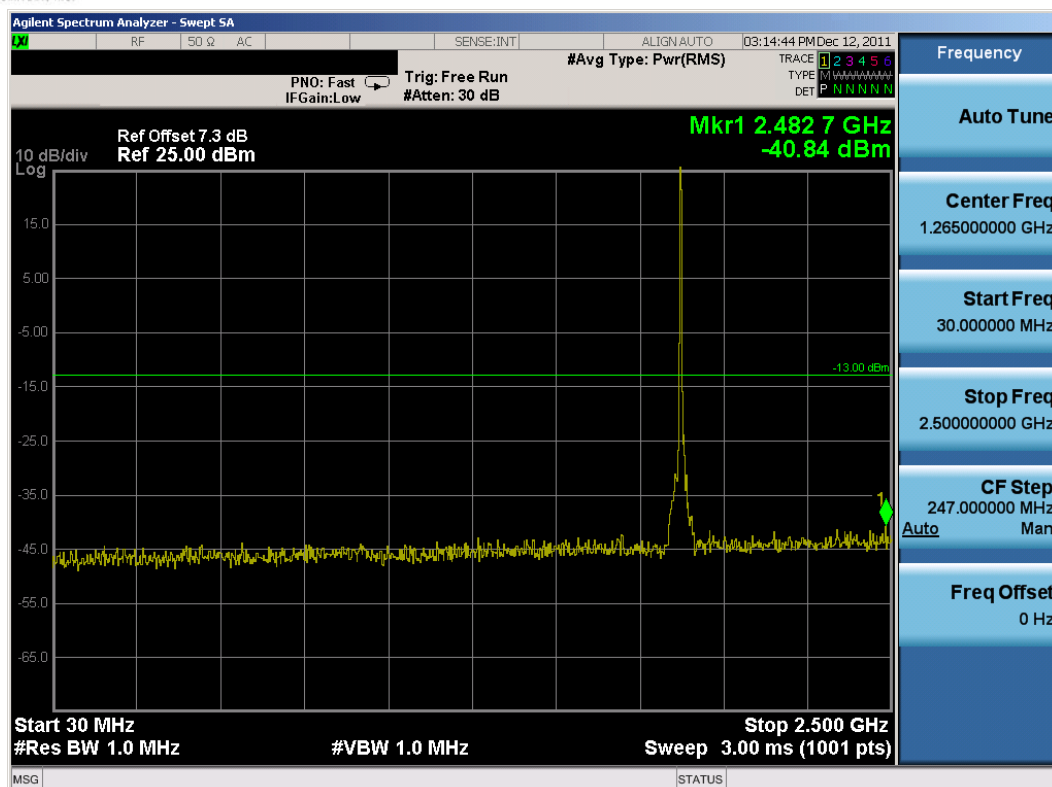


Plot 7-134. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

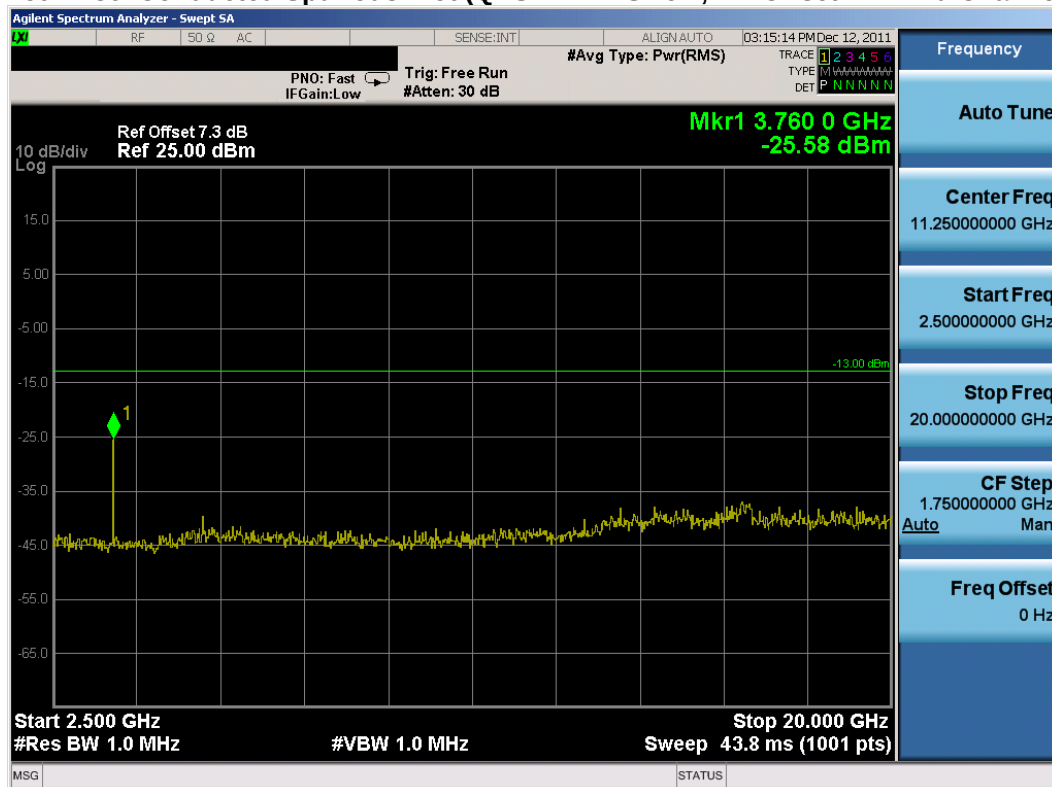


Plot 7-135. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 102 of 125

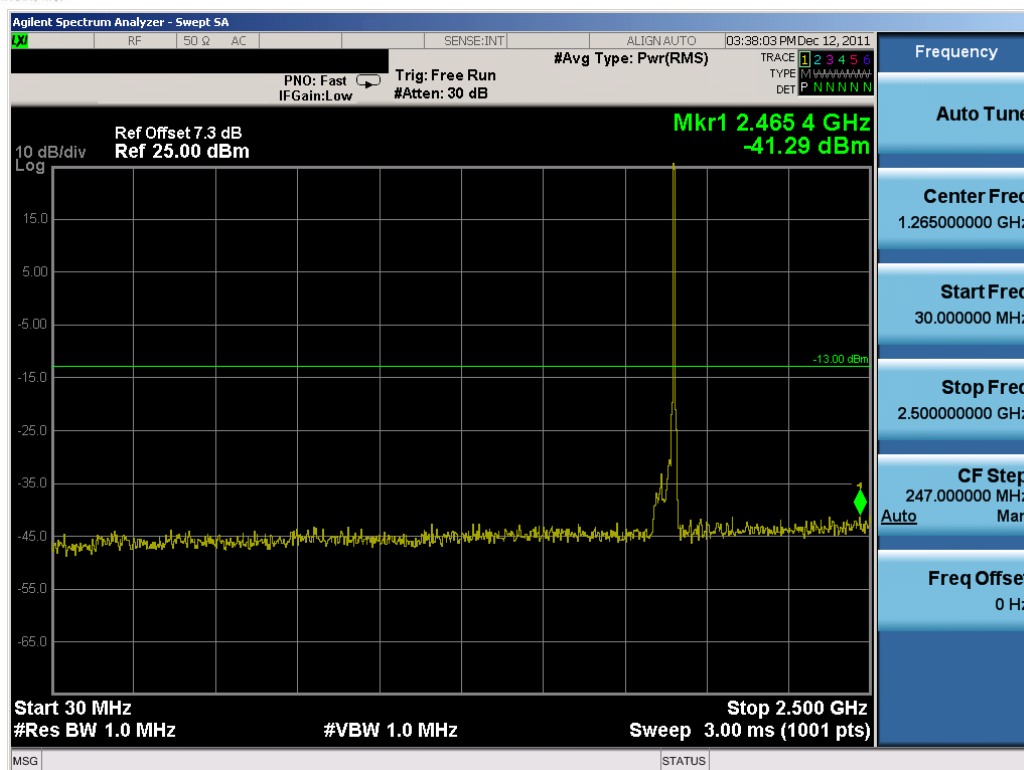


Plot 7-136. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

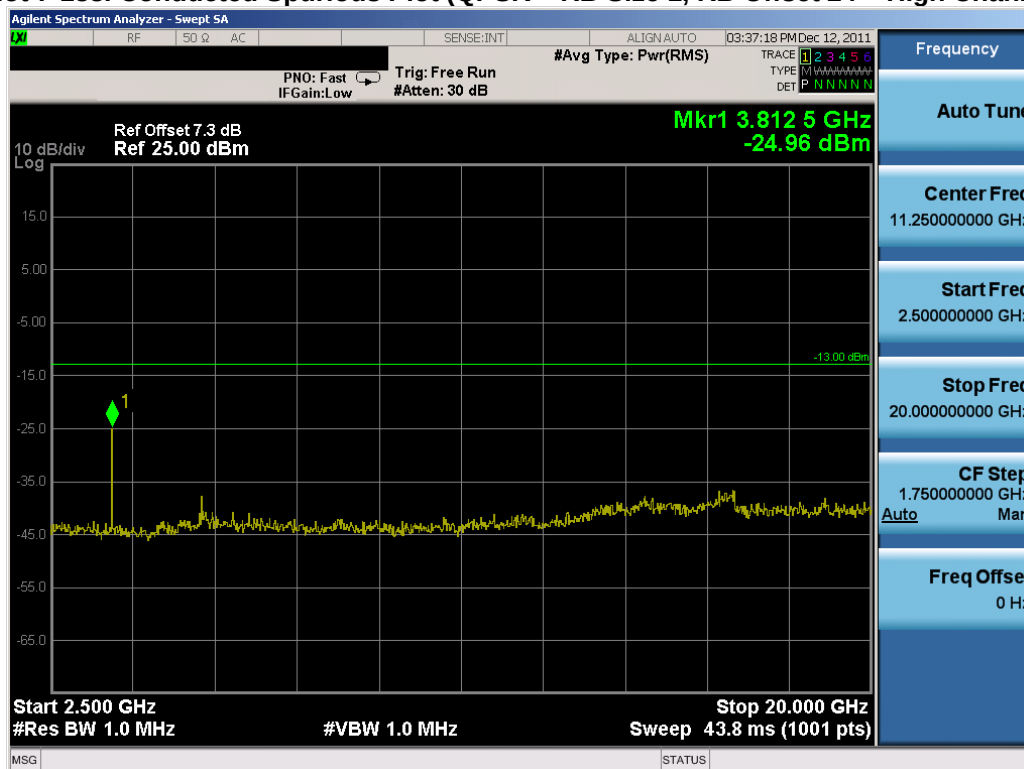


Plot 7-137. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 103 of 125

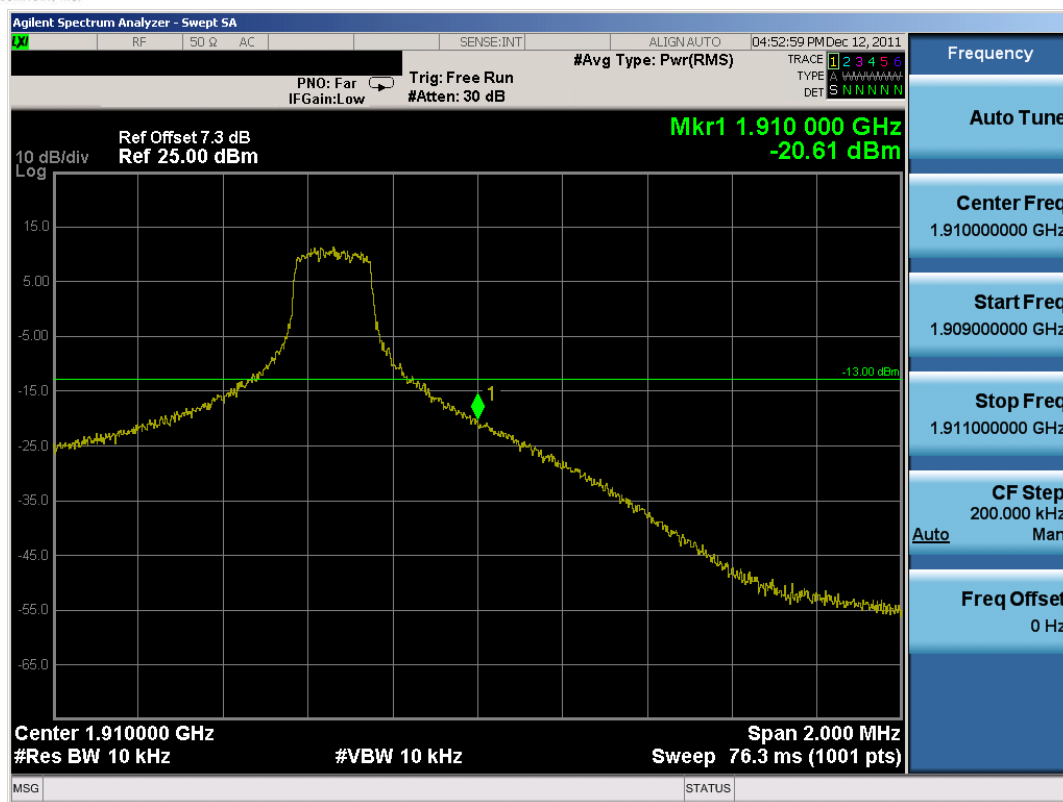


Plot 7-138. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)

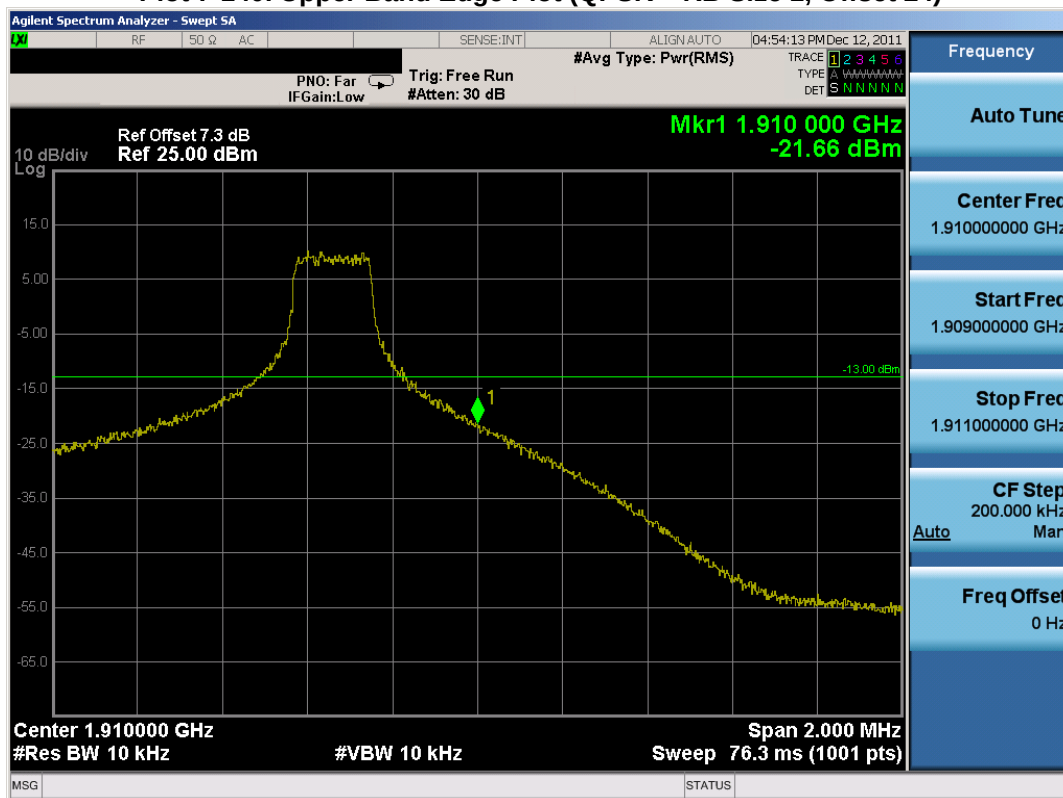


Plot 7-139. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)

FCC ID: A3LSCHI905U	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
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Plot 7-140. Upper Band Edge Plot (QPSK – RB Size 1, Offset 24)



Plot 7-141. Upper Band Edge Plot (16-QAM – RB Size 1, Offset 24)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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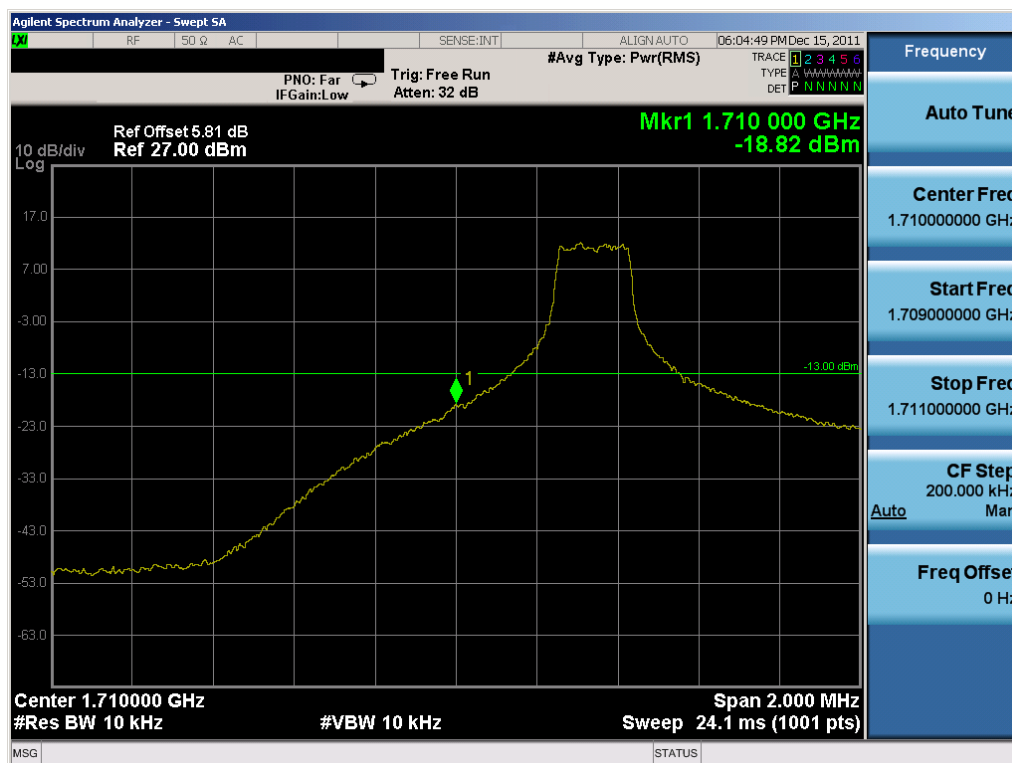
Plot 7-142. Upper Emission Mask (1911-1915 MHz) Plot (QPSK – RB Size 25)



Plot 7-143. Upper Emission Mask (1911-1915 MHz) Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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BAND 4 5MHz



Plot 7-144. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)

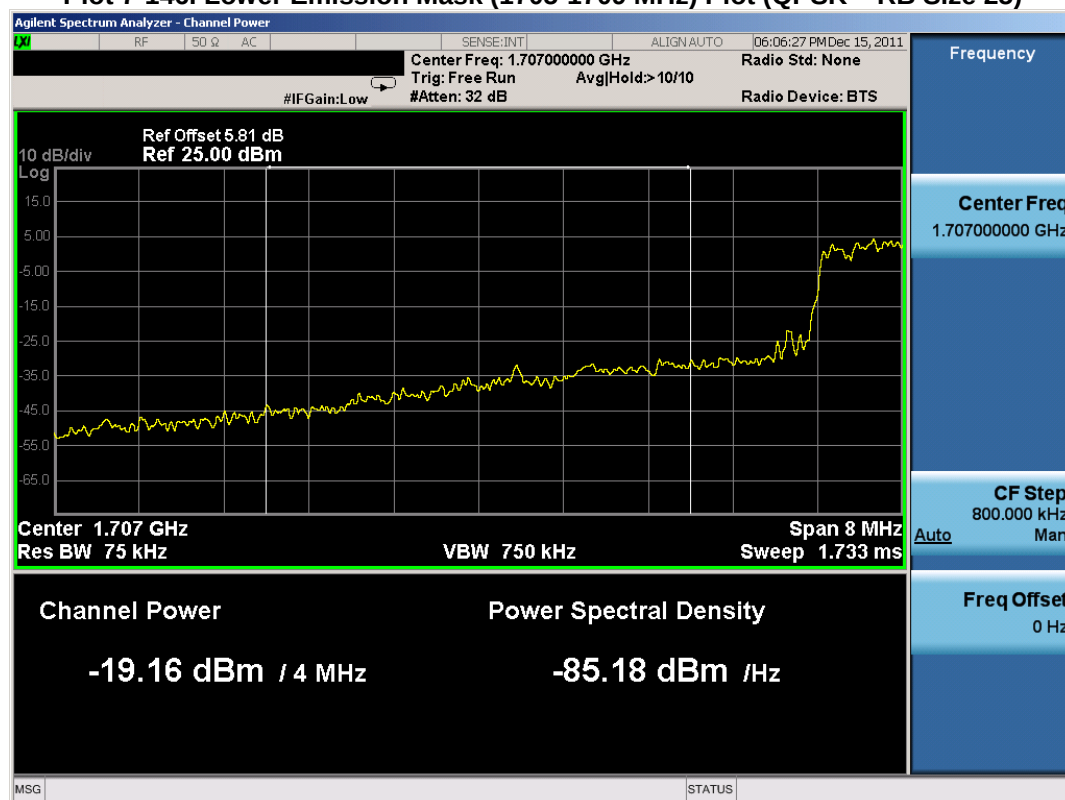


Plot 7-145. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 107 of 125

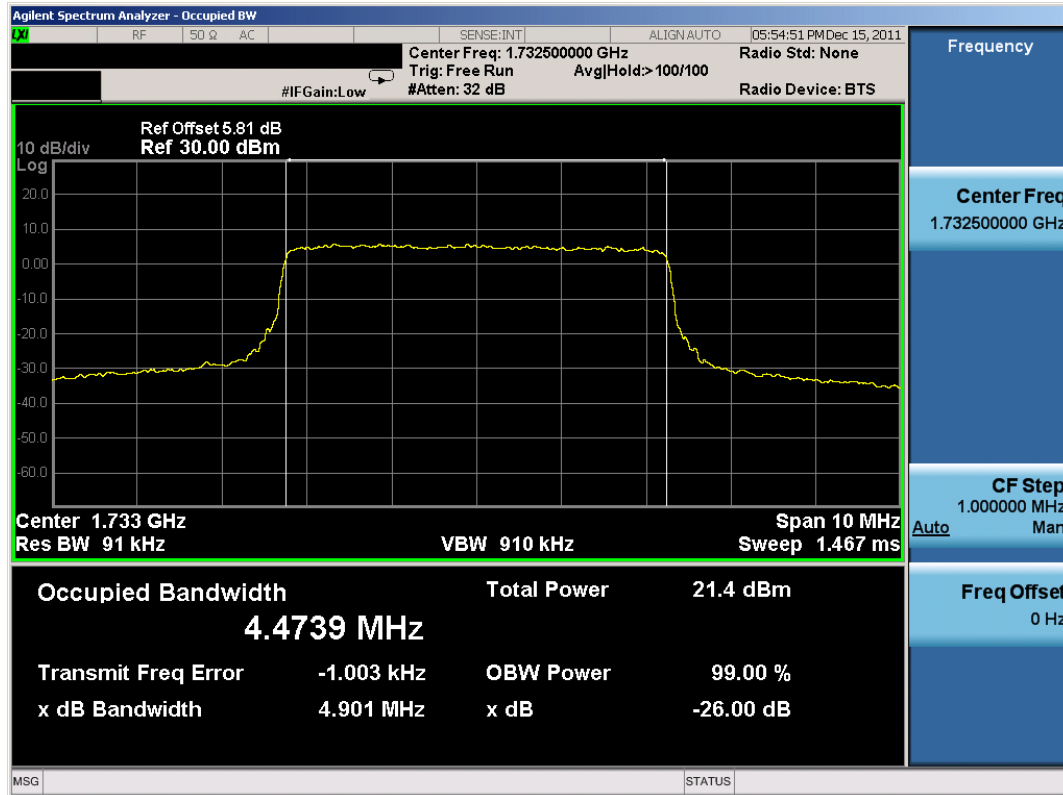


Plot 7-146. Lower Emission Mask (1705-1709 MHz) Plot (QPSK – RB Size 25)

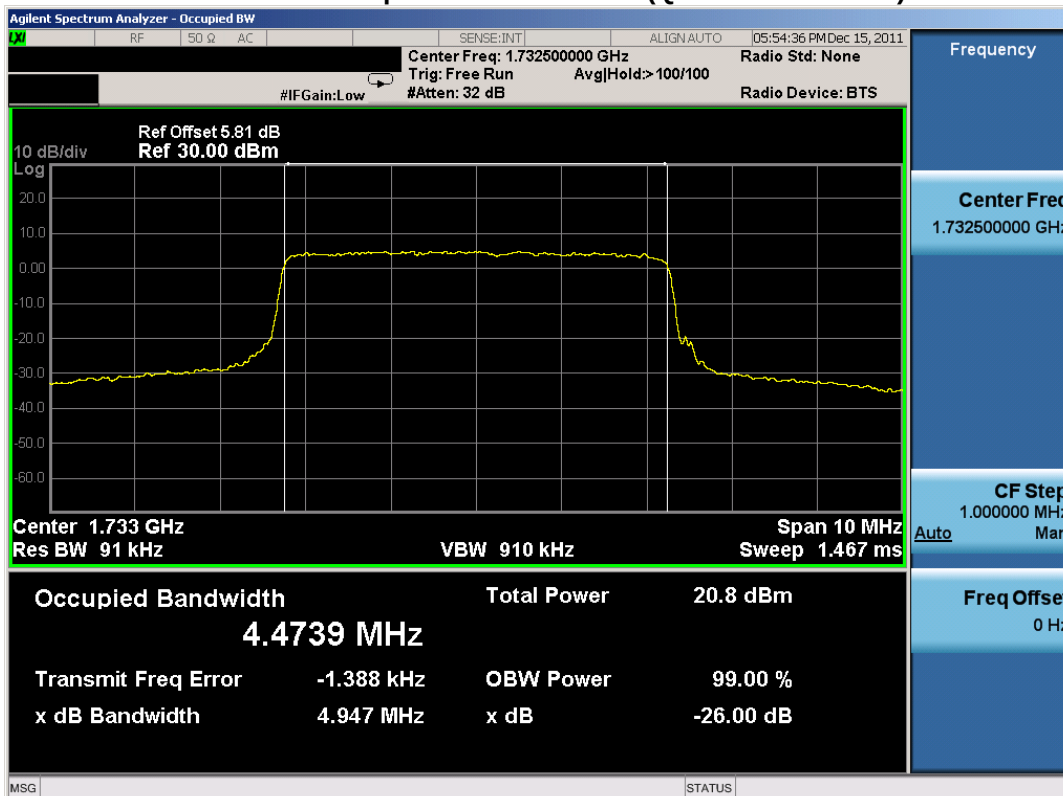


Plot 7-147. Lower Emission Mask (1705-1709 MHz) Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 108 of 125

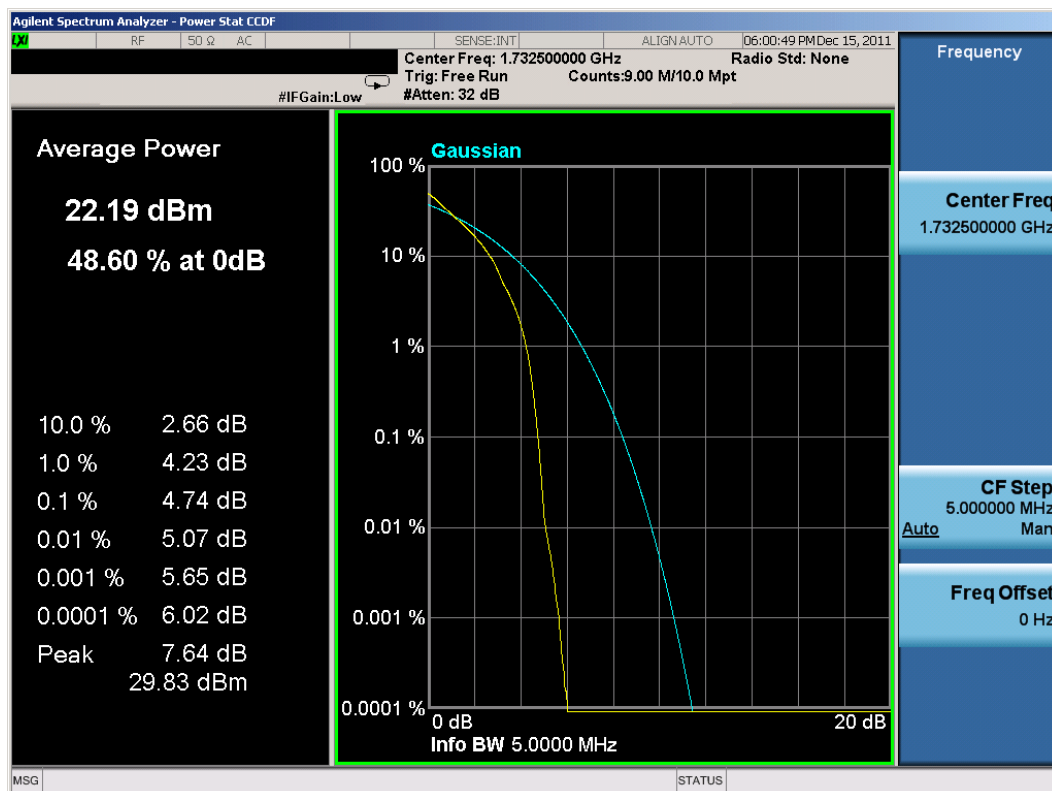


Plot 7-148. Occupied Bandwidth Plot (QPSK – RB Size 25)

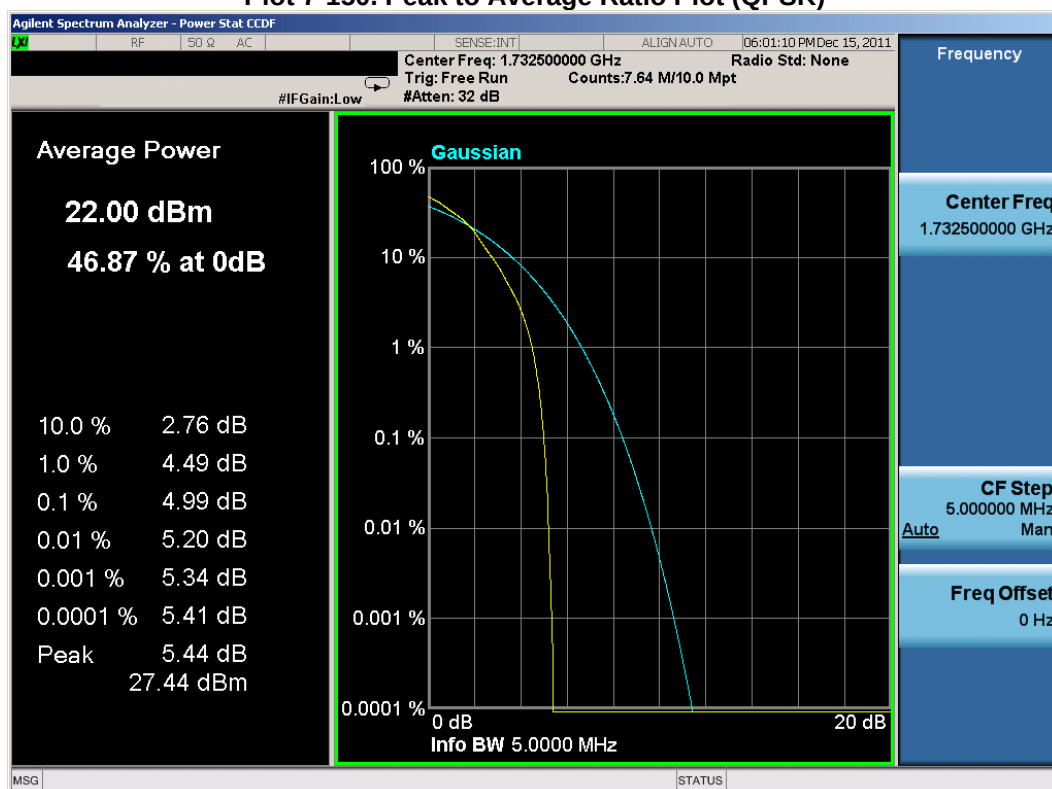


Plot 7-149. Occupied Bandwidth Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 109 of 125

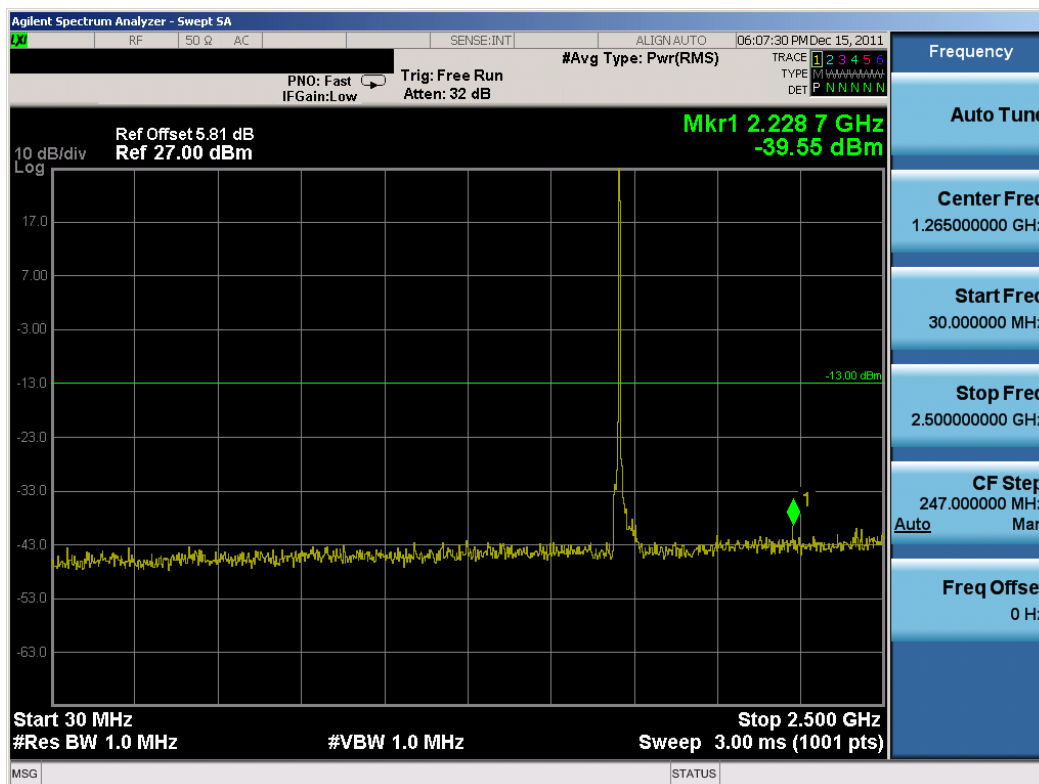


Plot 7-150. Peak to Average Ratio Plot (QPSK)

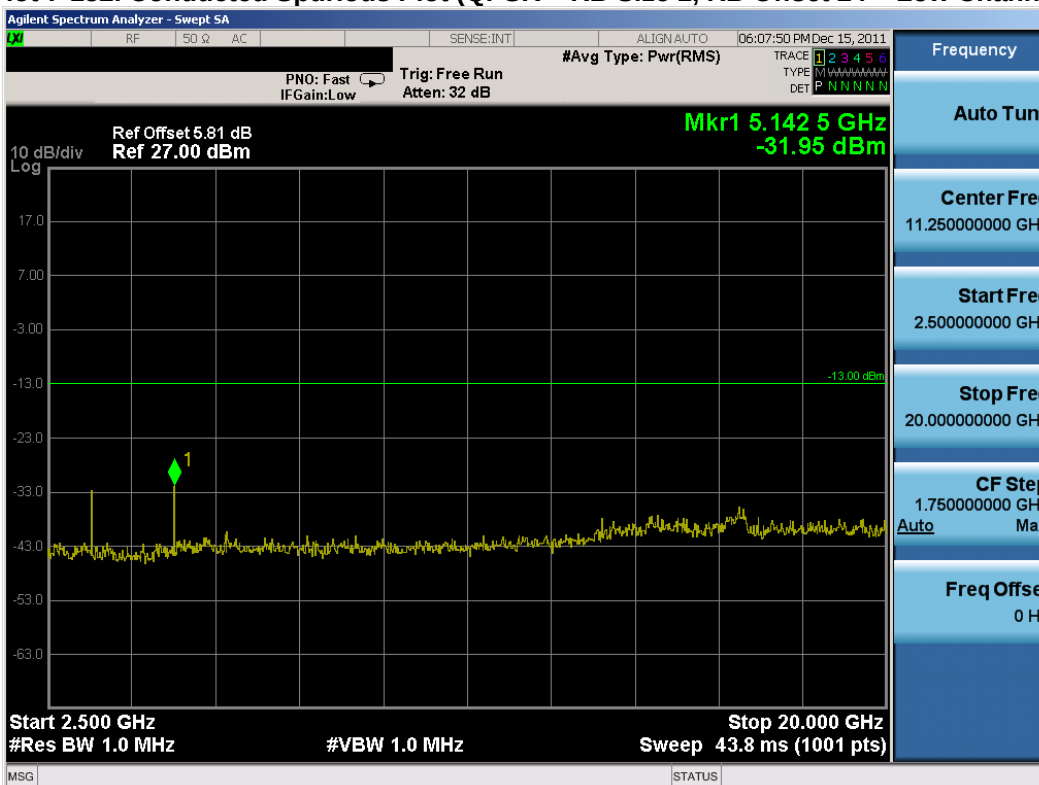


Plot 7-151. Peak to Average Ratio Plot (16QAM)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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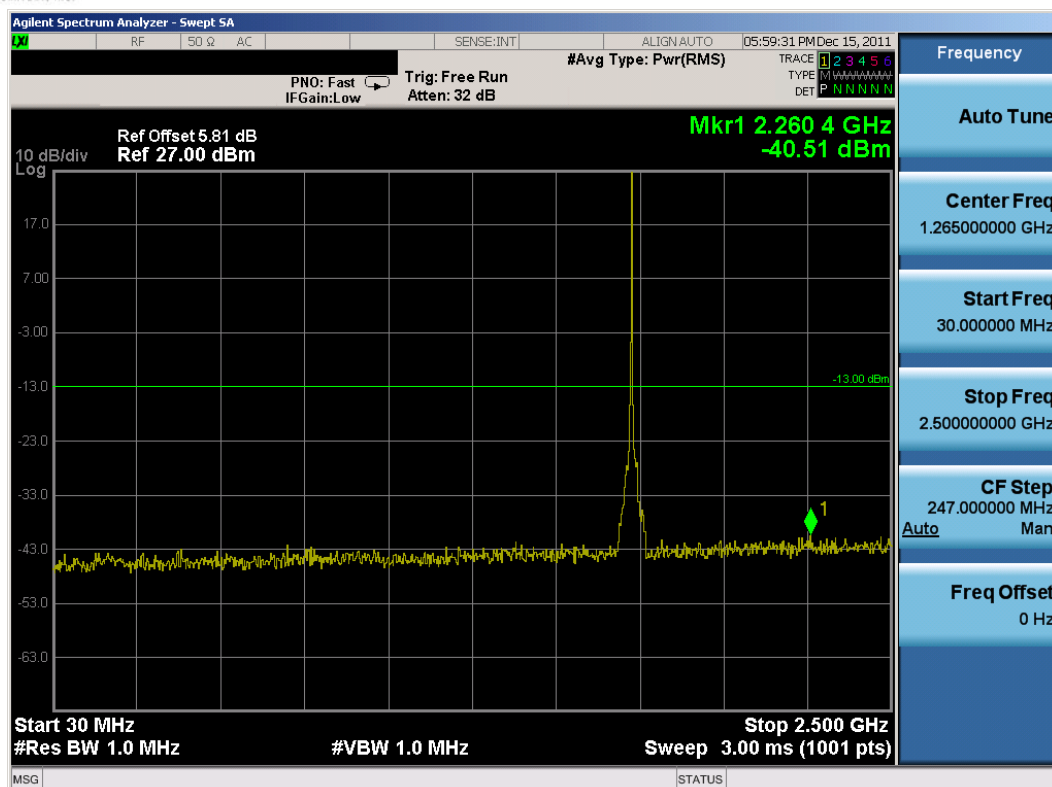


Plot 7-152. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

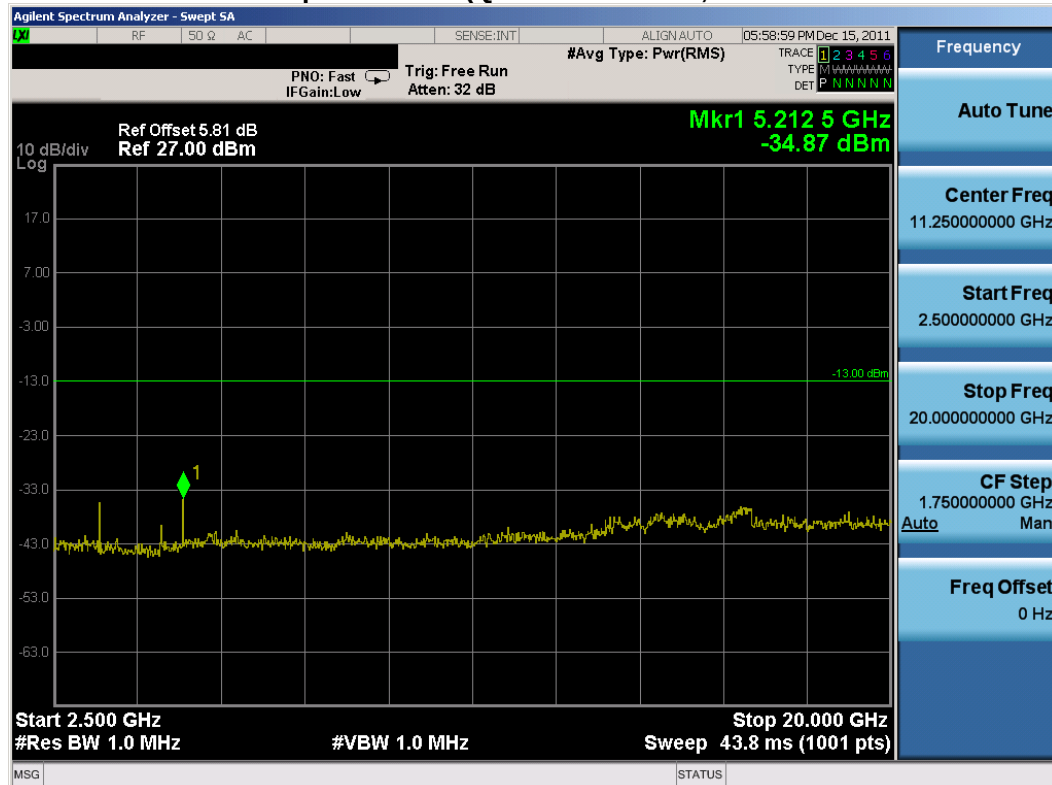


Plot 7-153. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Low Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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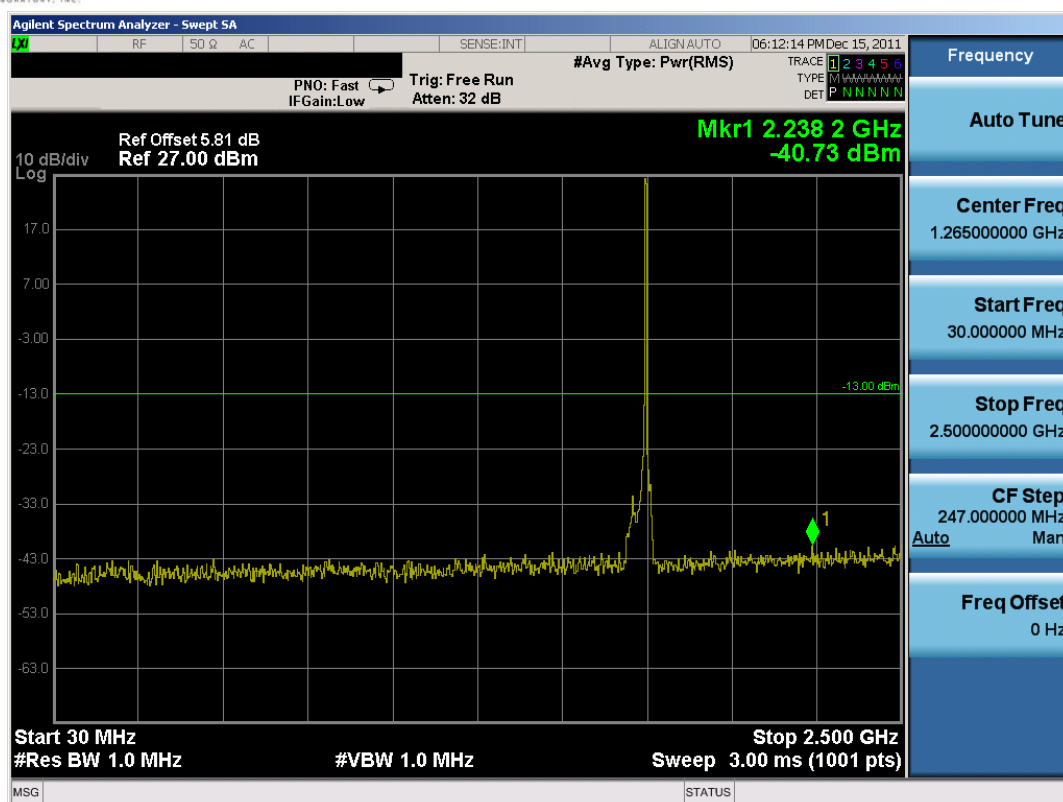


Plot 7-154. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

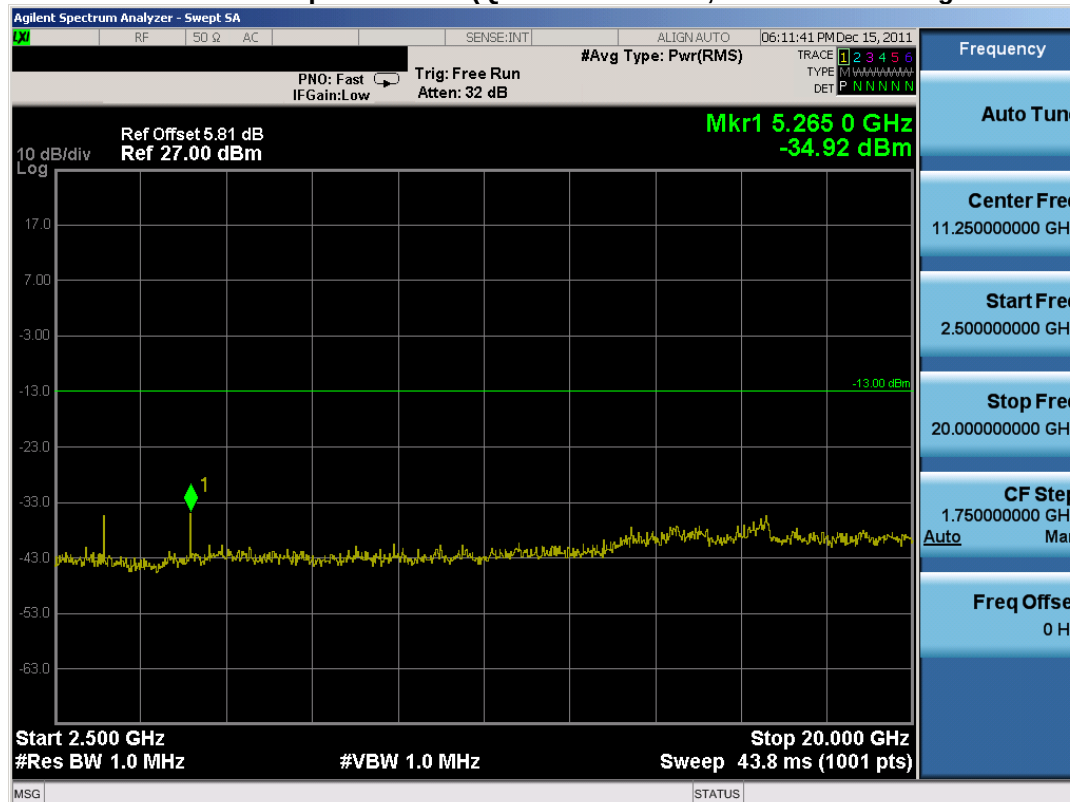


Plot 7-155. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – Mid Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 112 of 125

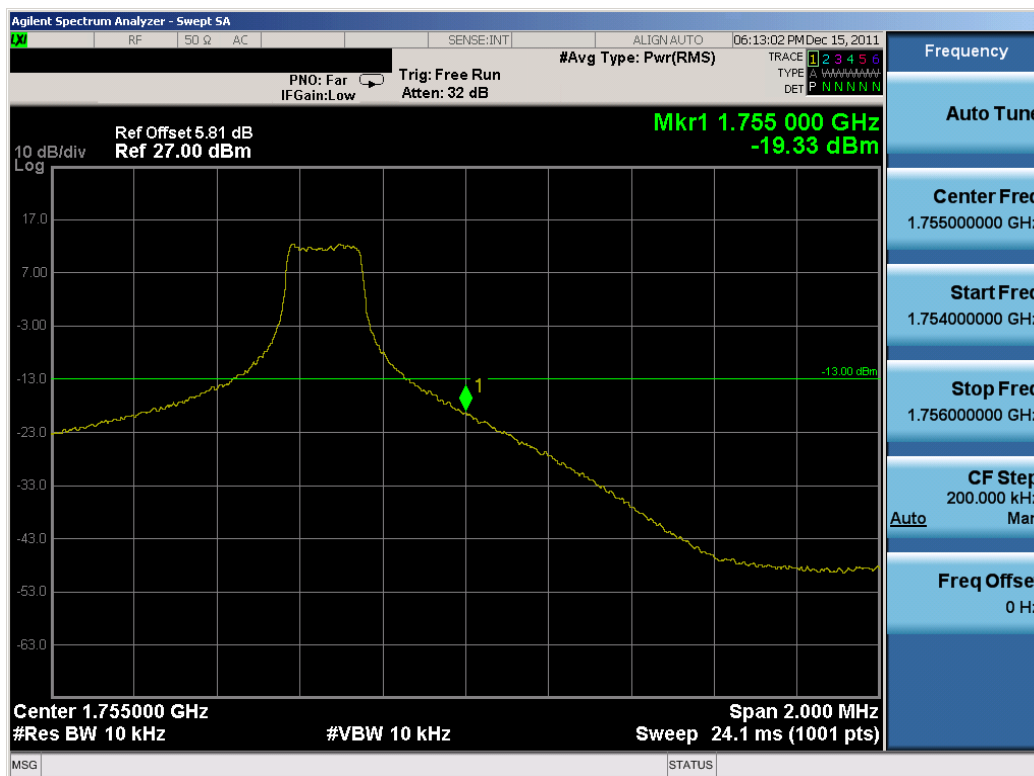


Plot 7-156. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)

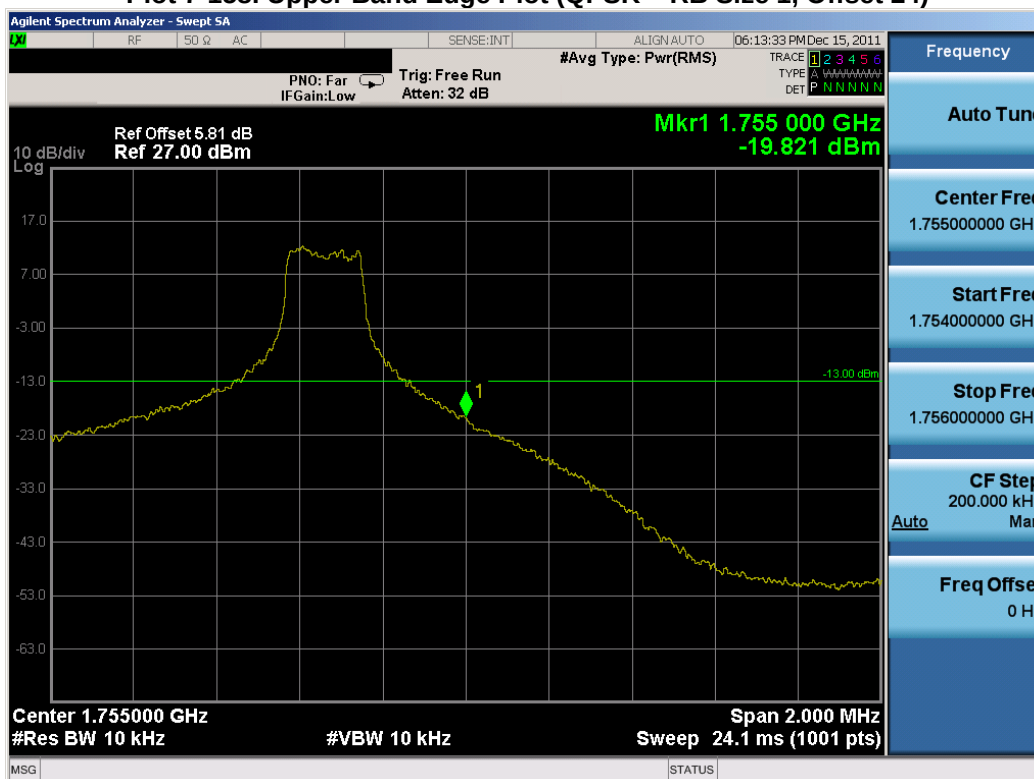


Plot 7-157. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 24 – High Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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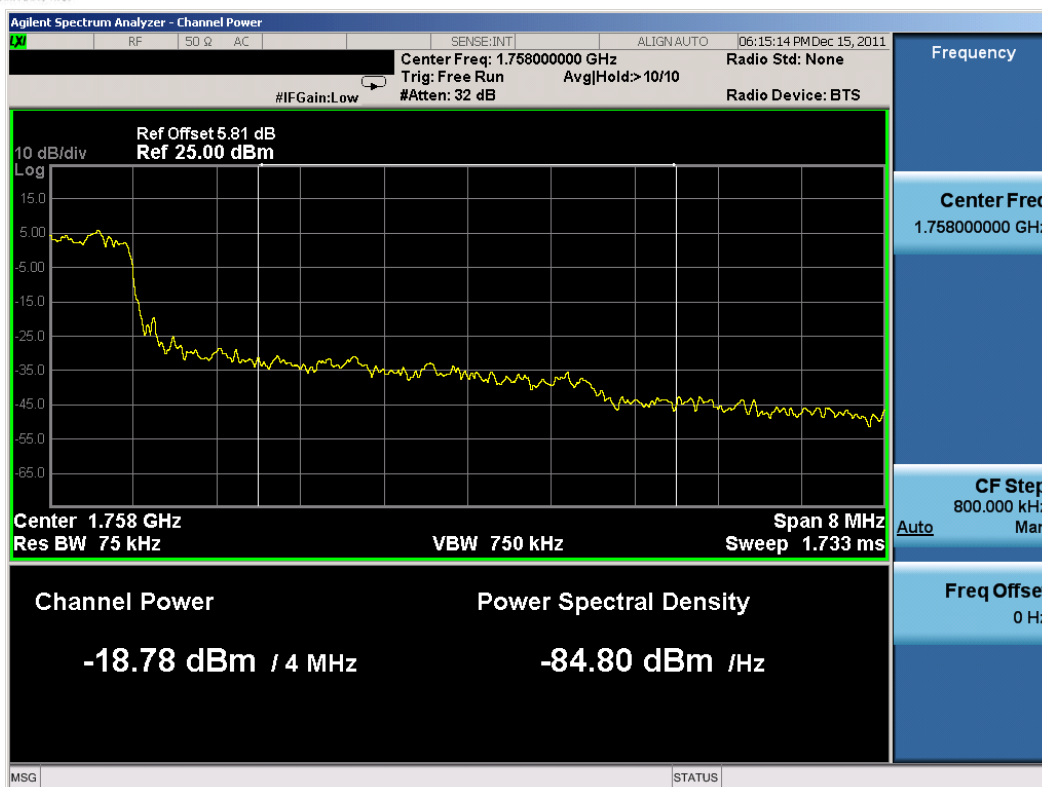


Plot 7-158. Upper Band Edge Plot (QPSK - RB Size 1, Offset 24)



Plot 7-159. Upper Band Edge Plot (16-QAM - RB Size 1, Offset 24)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1112012067.A3L	Test Dates: Dec.12 - Jan. 23, 2011	EUT Type: Portable Tablet Computer		Page 114 of 125



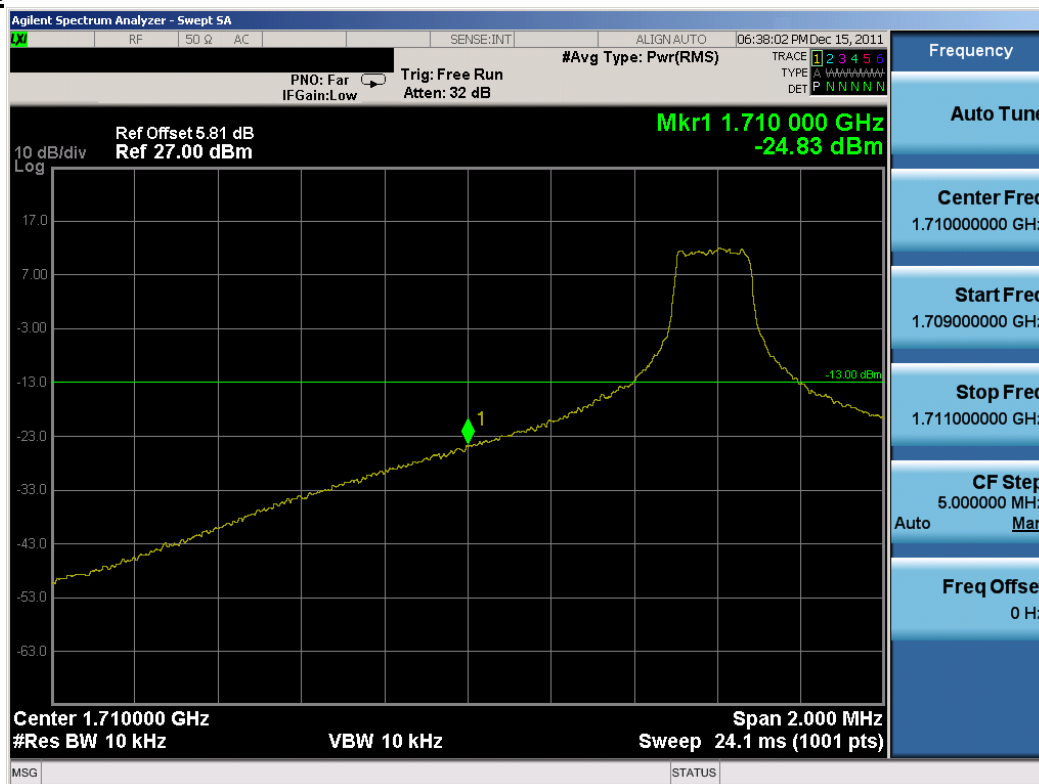
Plot 7-160. Upper Emission Mask (1756-1760 MHz) Plot (QPSK – RB Size 25)



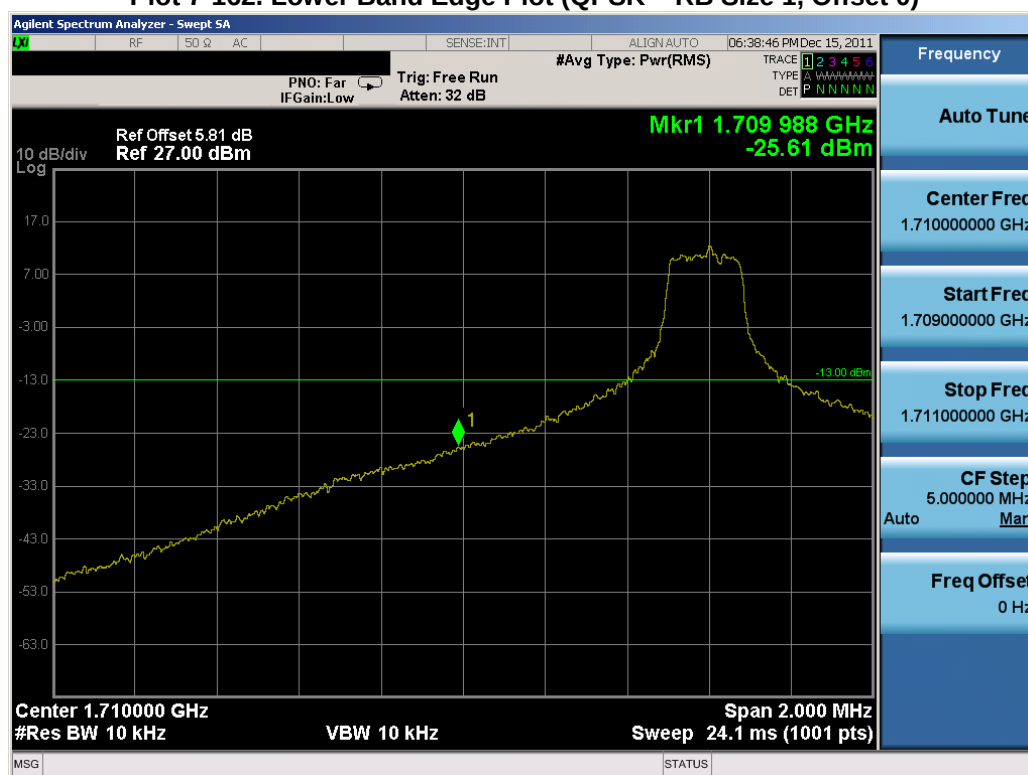
Plot 7-161. Upper Emission Mask (1756-1760 MHz) Plot (16-QAM – RB Size 25)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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10MHz

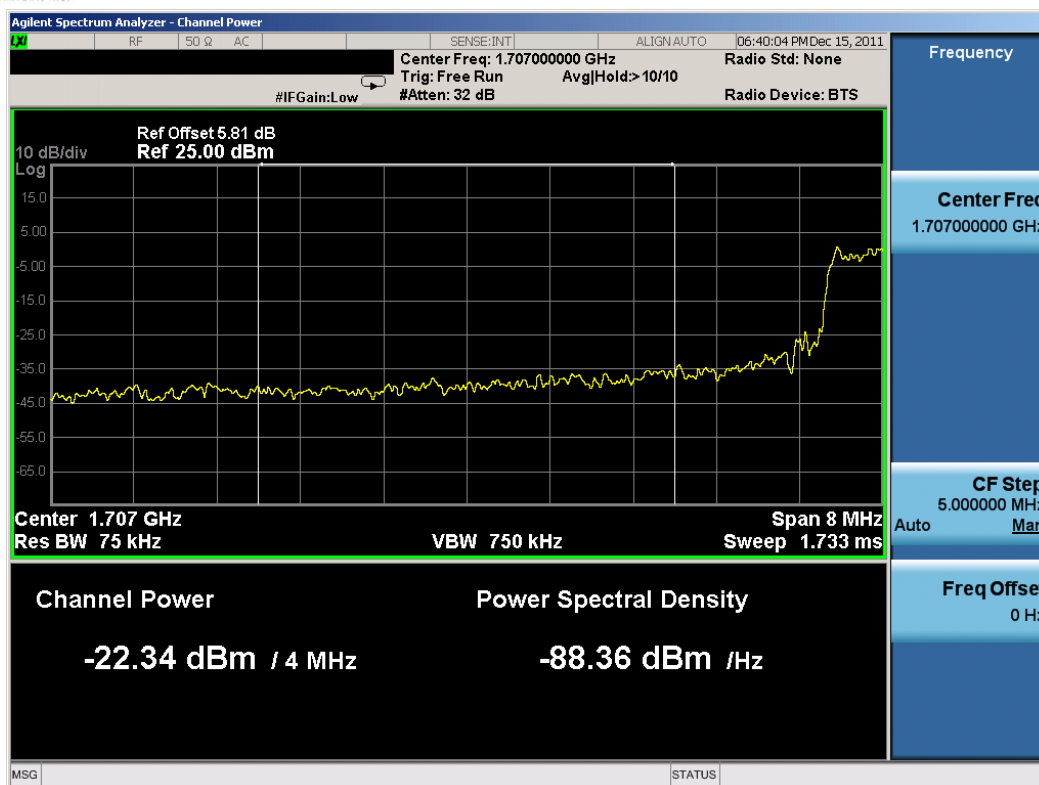


Plot 7-162. Lower Band Edge Plot (QPSK – RB Size 1, Offset 0)

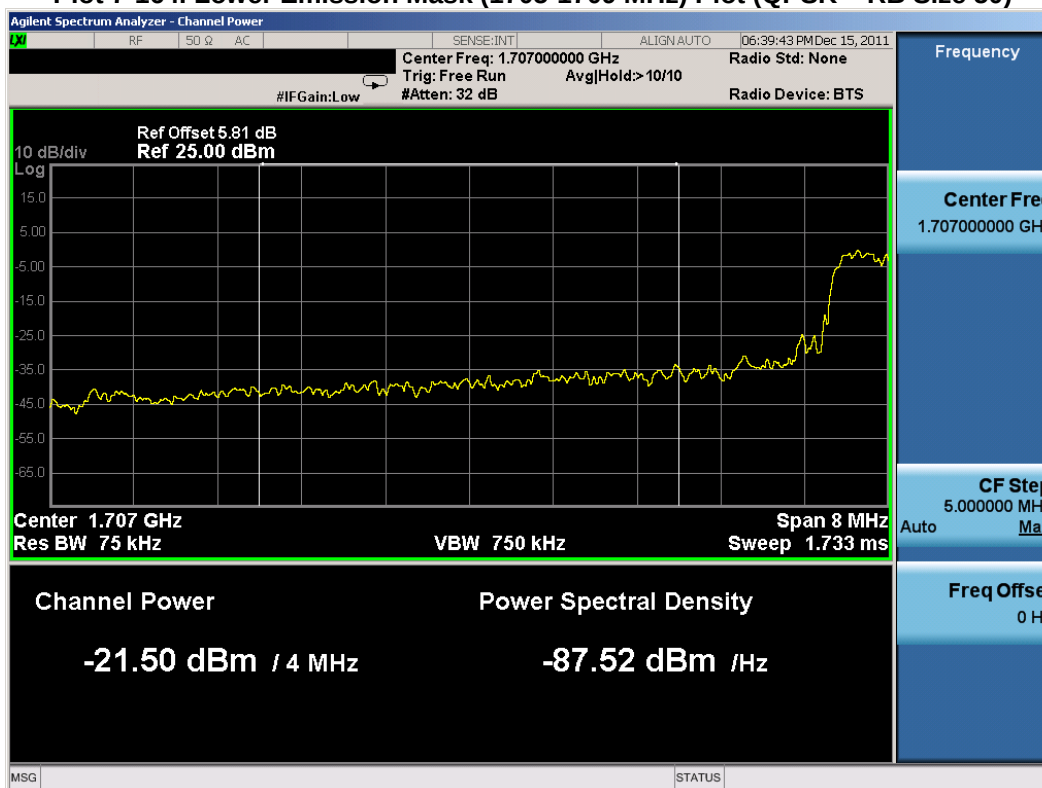


Plot 7-163. Lower Band Edge Plot (16-QAM – RB Size 1, Offset 0)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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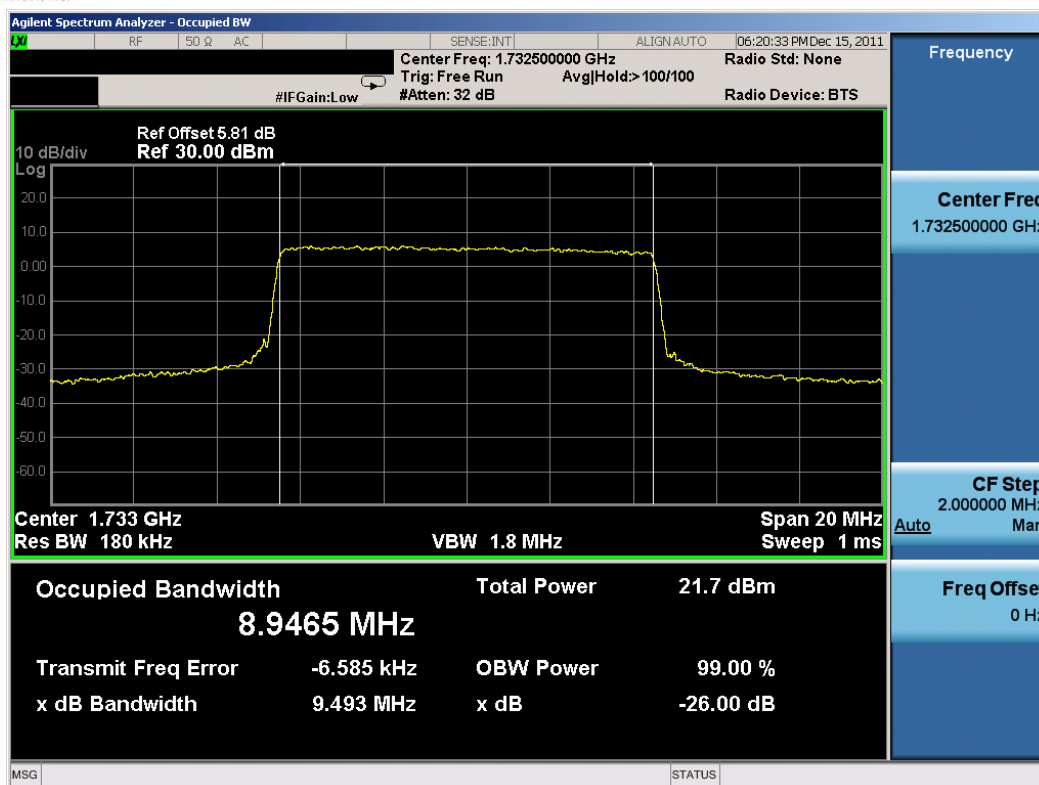


Plot 7-164. Lower Emission Mask (1705-1709 MHz) Plot (QPSK – RB Size 50)

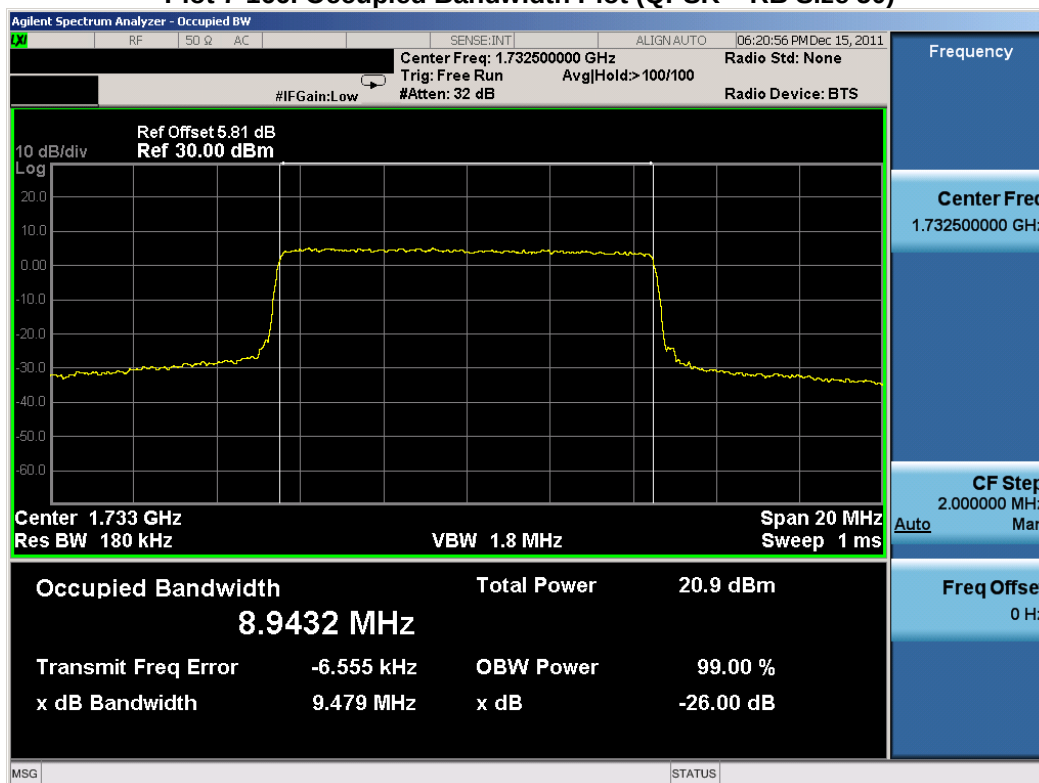


Plot 7-165. Lower Emission Mask (1705-1709 MHz) Plot (16-QAM – RB Size 50)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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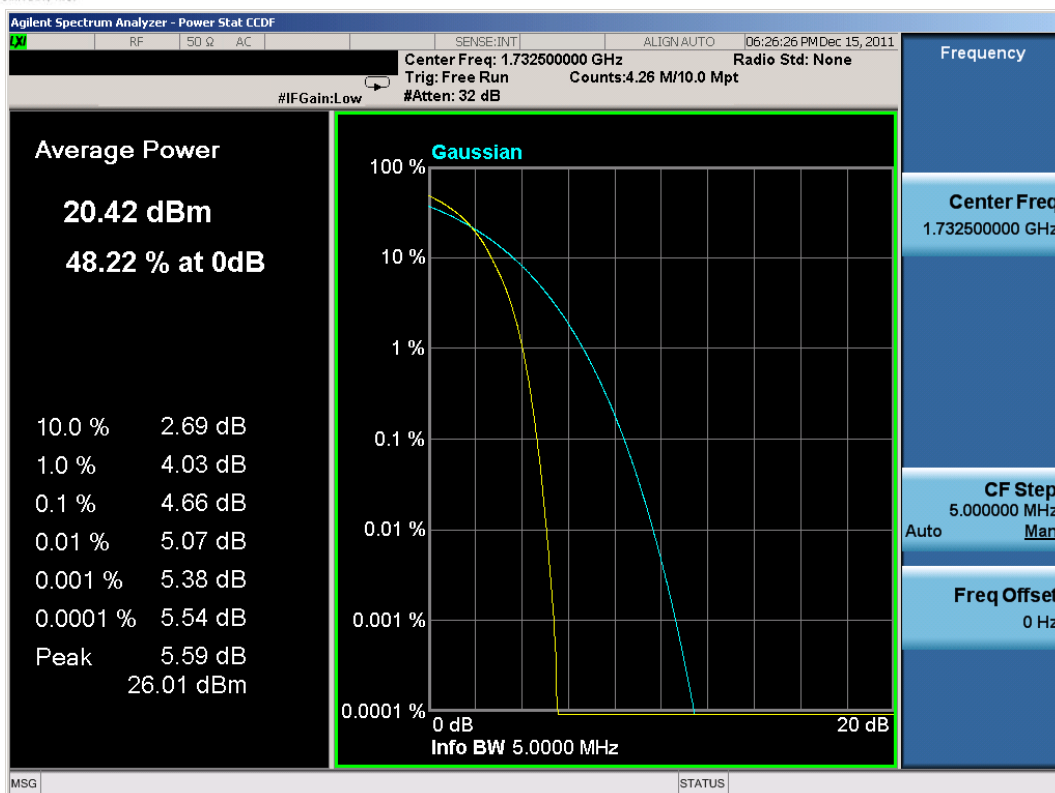


Plot 7-166. Occupied Bandwidth Plot (QPSK – RB Size 50)

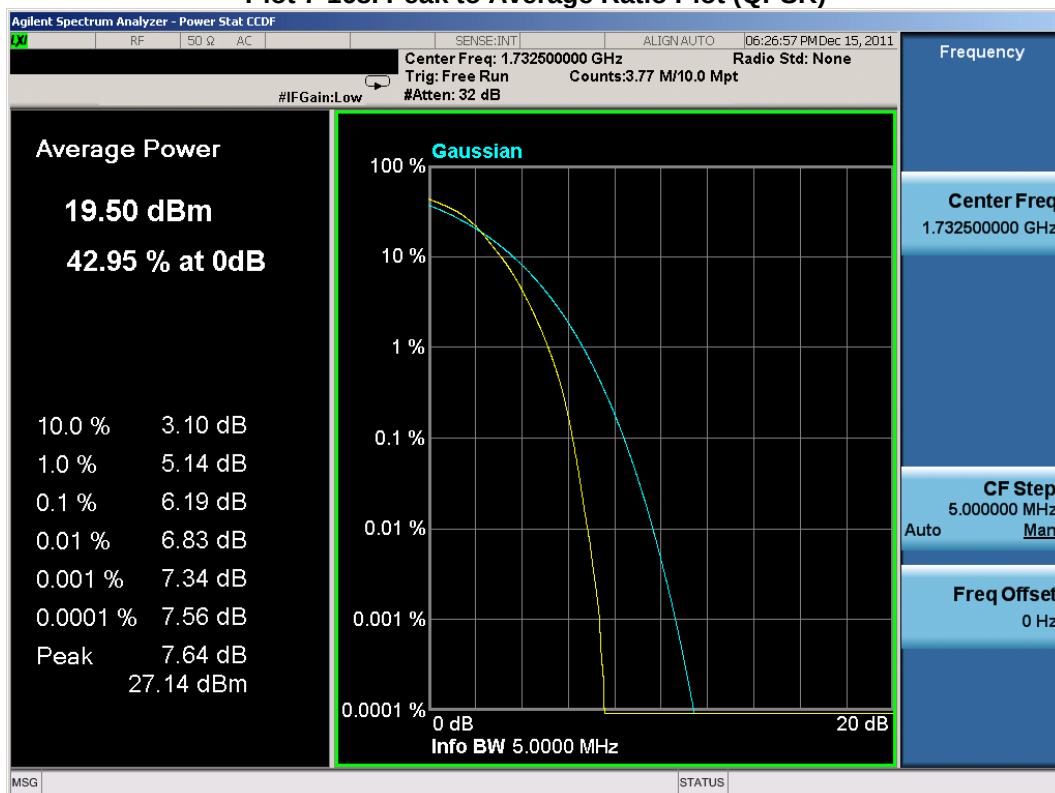


Plot 7-167. Occupied Bandwidth Plot (16-QAM – RB Size 50)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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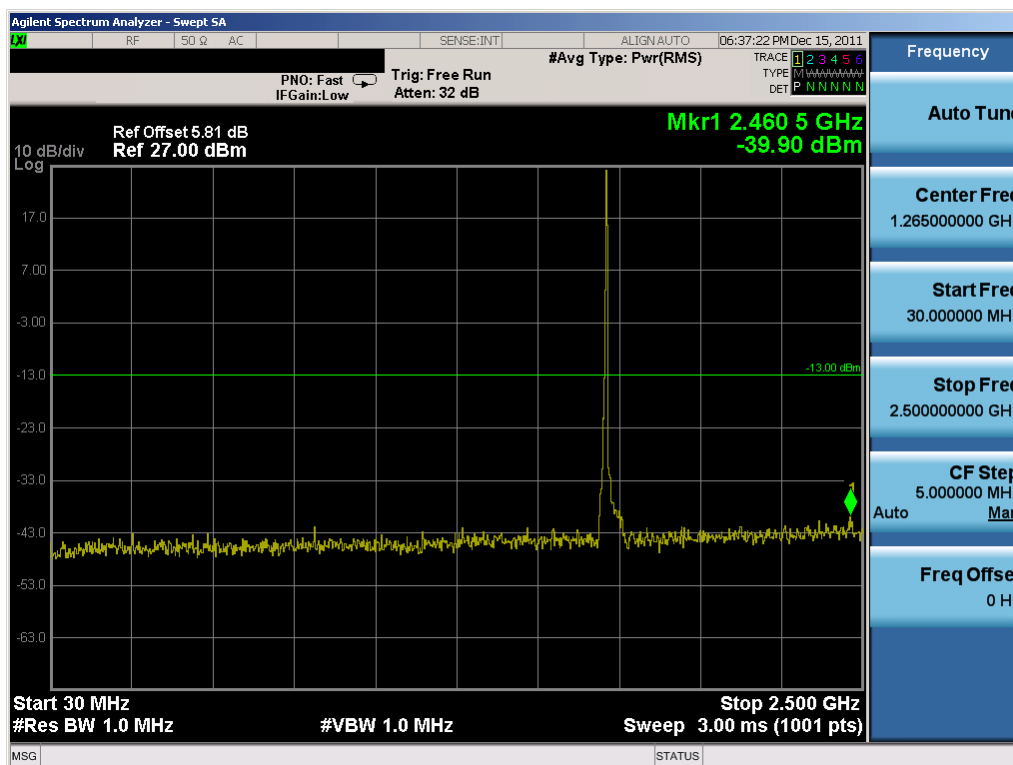


Plot 7-168. Peak to Average Ratio Plot (QPSK)

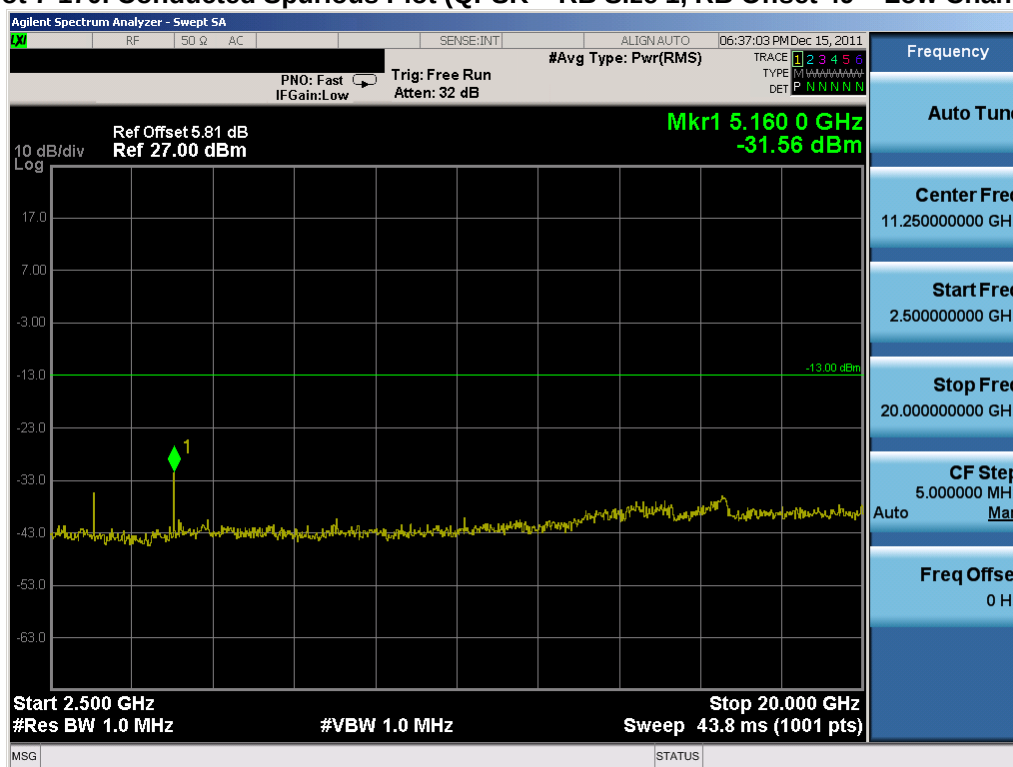


Plot 7-169. Peak to Average Ratio Plot (16QAM)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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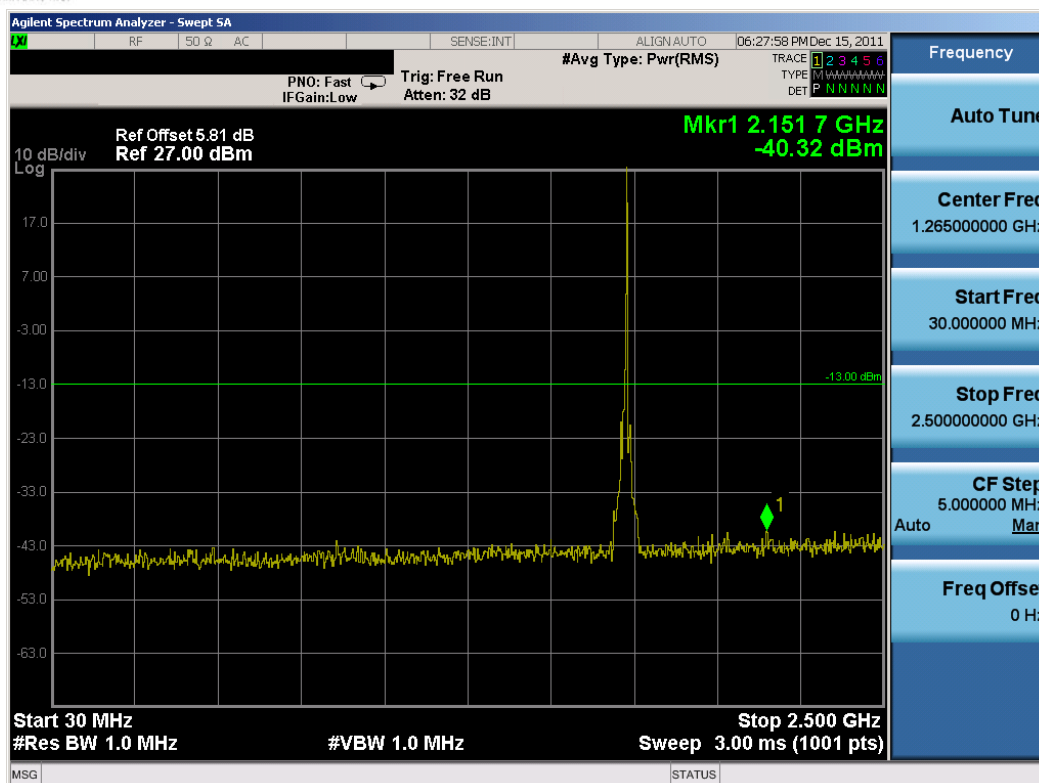


Plot 7-170. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Low Channel)

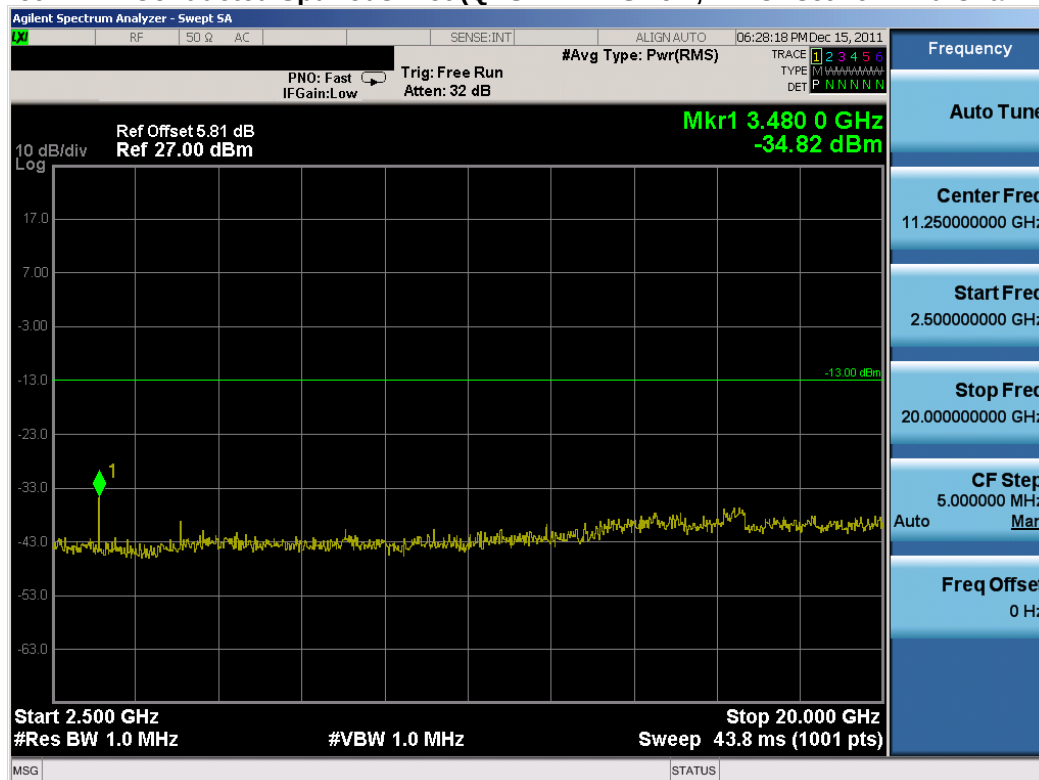


Plot 7-171. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Low Channel)

FCC ID: A3LSCHI905U	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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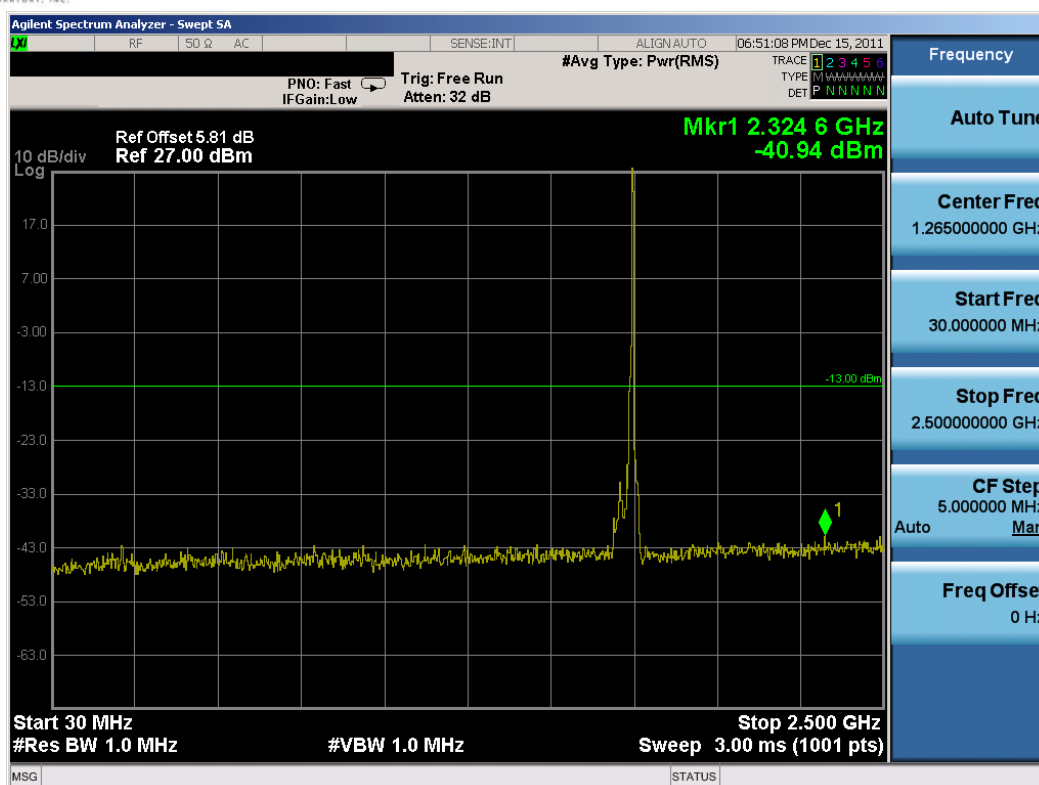


Plot 7-172. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Mid Channel)

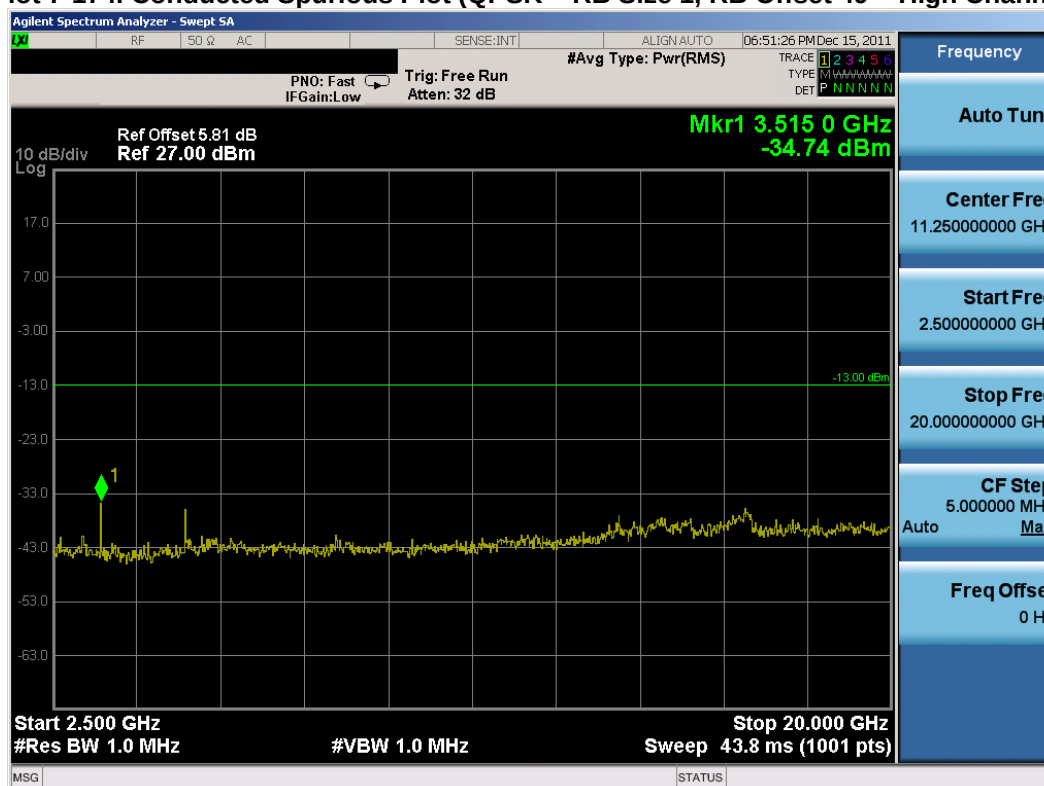


Plot 7-173. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – Mid Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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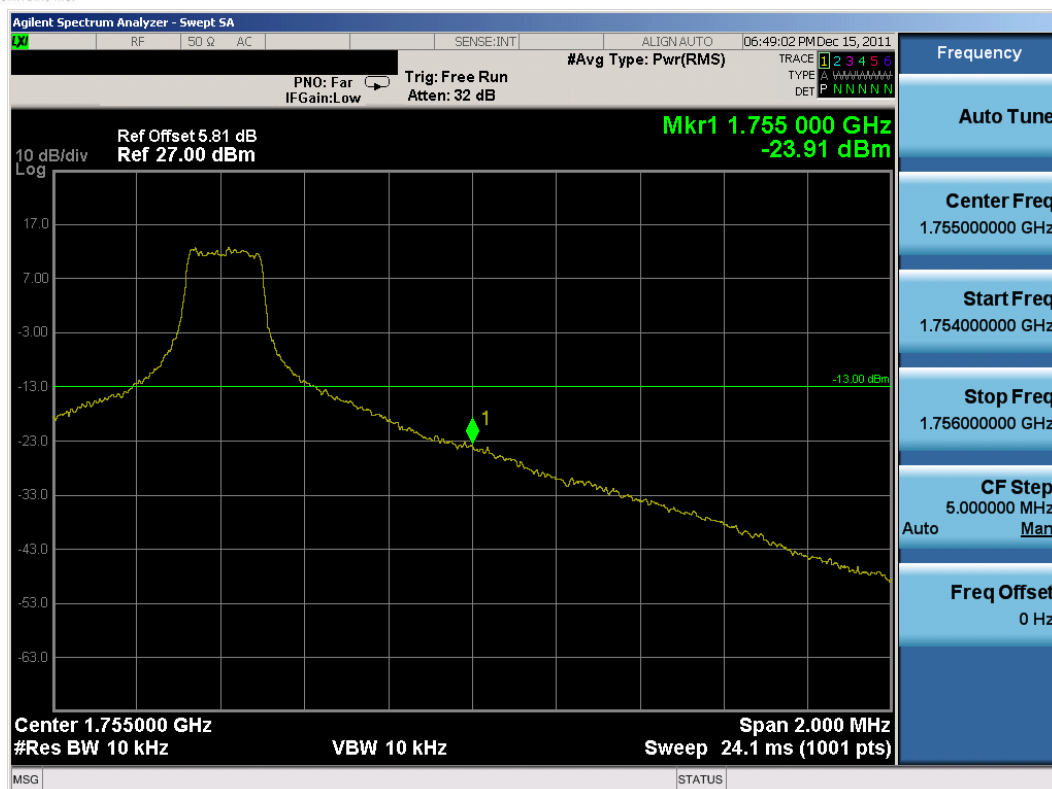


Plot 7-174. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – High Channel)

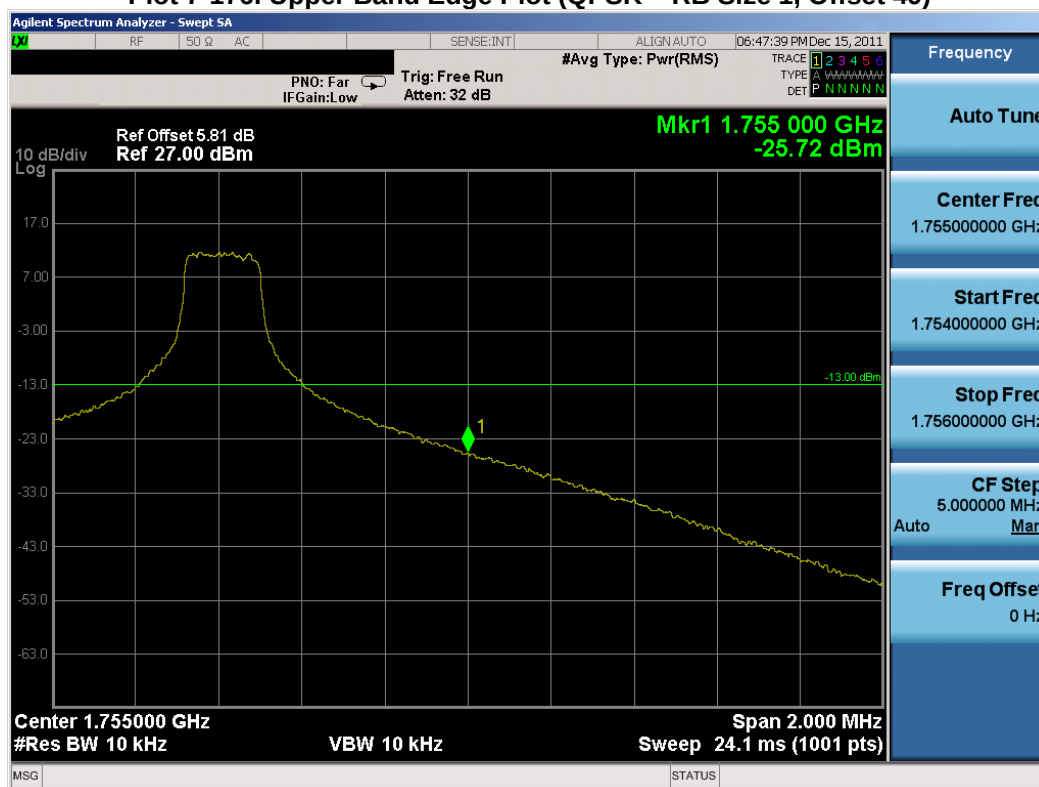


Plot 7-175. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 49 – High Channel)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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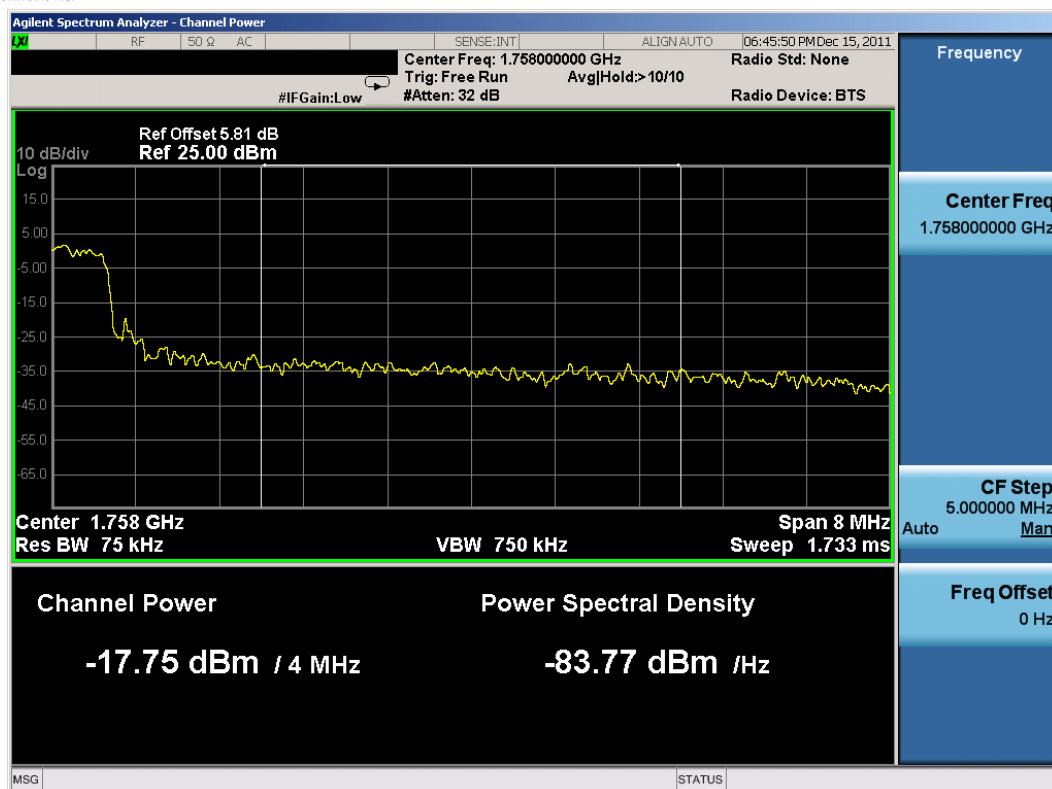


Plot 7-176. Upper Band Edge Plot (QPSK – RB Size 1, Offset 49)

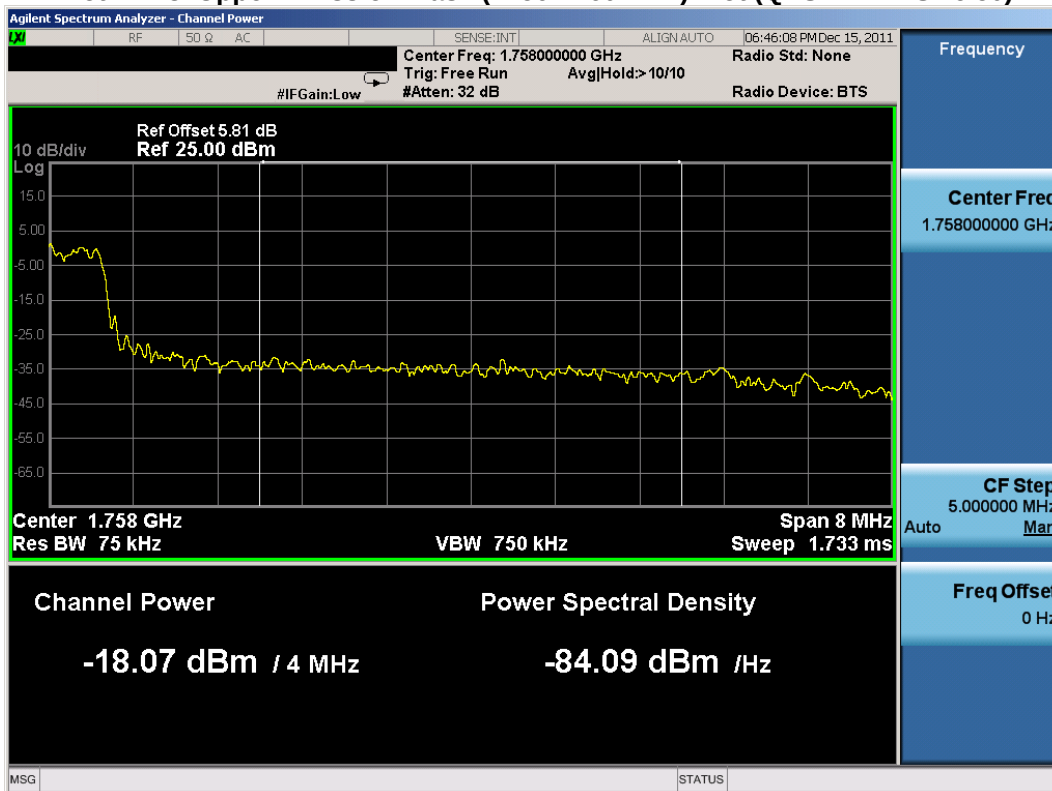


Plot 7-177. Upper Band Edge Plot (16-QAM – RB Size 1, Offset 49)

FCC ID: A3LSCHI905U	 FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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Plot 7-178. Upper Emission Mask (1756-1760 MHz) Plot (QPSK – RB Size 50)



Plot 7-179. Upper Emission Mask (1756-1760 MHz) Plot (16-QAM – RB Size 50)

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Tablet Computer FCC ID: A3LSCHI905U** complies with all the requirements of Parts 2, 22, 24 and 27 of the FCC rules for LTE operation only.

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