

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**  
**INTENTIONAL RADIATOR CERTIFICATION TO**  
**FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C**  
**REQUIREMENT**

OF

**Product Name:** PDA Phone  
**Brand Name:** Sony  
**Type No.:** PM-0873-BV  
**Model Difference:** N/A  
**FCC ID:** PY7-PM0873  
**Report No.:** ER/2015/40155  
**Issue Date:** Jun. 24, 2015  
**FCC Rule Part:** 2, 22H & 24E & 27C  
**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/Sweden  
**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku  
District, New Taipei City, Taiwan 24803

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## VERIFICATION OF COMPLIANCE

**Applicant:** Sony Mobile Communications AB  
 Nya Vattentornet 22188 Lund/Sweden

**Product Name:** PDA Phone

**Brand Name:** Sony

**Type No.:** PM-0873-BV

**Model Difference:** N/A

**FCC ID:** PY7-PM0873

**File Number:** ER/2015/40155

**Date of test:** Apr. 22, 2015 ~ Jun. 24, 2015

**Date of EUT Received:** Apr. 22, 2015

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits. The test results of this report relate only to the tested sample identified in this report.

*Test By:*

*Marcus Tseng*

*Date:*

Jun. 24, 2015

*Marcus Tseng / Engineer*

*Prepared By:*

*Karen Huang*

*Date:*

Jun. 24, 2015

*Karen Huang / Clerk*

*Approved By:*

*Jim Chang*

*Date:*

Jun. 24, 2015

*Jim Chang / Asst. Manager*

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2015/40155	Rev.00	Initial creation of document	Jun. 24, 2015

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# 1. GENERAL PRODUCT INFORMATION

## 1.1. Product Description

General:

Product Name:	PDA Phone	
Brand Name:	Sony	
Type No.:	PM-0873-BV	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: 1242-6715.3, Length: 100 cm	
Simple Hands-Free (SHF-White):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
BT PHF:	Model No.: MW600, Supplier: BALDA Type No.: DDA-0002029.Bcoupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA, Type No.: AG-0502)	
Product SW/HW version:	30.0.B.0.20 / A	
Radio SW/HW version:	30.0.B.0.20 / A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	3.8Vdc	
	Battery:	Model No.: AGPB016-A001, Supplier: Sony Type No.: N/A
	Adapter:	1. Model No.: EP800, Supplier: Phihong Type No.: AC-0300-US 2. Model No.: EP800, Supplier: Salcomp Type No.: AC-0030-US
IMEI:	004402454859870	

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GSM / WCDMA/ LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	
EDGE 850, Class 12	824.2 MHz– 848.8 MHz		27dBm
GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz		30dBm
EDGE 1900, Class 12	1850.2MHz – 1909.8MHz		26dBm
WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz		24dBm
WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz		24dBm
LTE-Band 5 (Bandwidth 1.4MHz)	824.7MHz – 848.3MHz		23dBm
LTE-Band 5 (Bandwidth 3MHz)	825.5MHz – 847.5MHz		23dBm
LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz		23dBm
LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz		23dBm
LTE-Band 7 (Bandwidth 5MHz)	2502.5MHz – 2567.5MHz		23dBm
LTE-Band 7 (Bandwidth 10MHz)	2505.0MHz – 2565.0MHz		23dBm
LTE-Band 7 (Bandwidth 15MHz)	2507.5MHz – 2562.5MHz		23dBm
LTE-Band 7 (Bandwidth 20MHz)	2510.0MHz – 2560.0MHz		23dBm

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	GPRS 850	250KGXW
	EDGE 850	254KG7W
	GSM 1900	246KGXW
	GPRS 1900	248KGXW
	EDGE 1900	248KG7W
	WCDMA Band II	4M22F9W
	HSDPA Band II	4M24F9W
	HSUPA Band II	4M23F9W
	WCDMA Band V	4M24F9W
	HSDPA Band V	4M22F9W
	HSUPA Band V	4M24F9W
	LTE-Band 5 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 5 (Bandwidth 3MHz) QPSK	2M72G7D
	LTE-Band 5 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 5 (Bandwidth 5MHz) QPSK	4M52G7D
	LTE-Band 5 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 5 (Bandwidth 10MHz) QPSK	9M02G7D
	LTE-Band 5 (Bandwidth 10MHz) 16QAM	9M00D7W
	LTE-Band 7 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 7 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 7 (Bandwidth 10MHz) QPSK	9M03G7D
	LTE-Band 7 (Bandwidth 10MHz) 16QAM	8M97D7W
	LTE-Band 7 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 7 (Bandwidth 15MHz) 16QAM	13M5D7W
LTE-Band 7 (Bandwidth 20MHz) QPSK	18M0G7D	
LTE-Band 7 (Bandwidth 20MHz) 16QAM	18M0D7W	

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	dBm		W
GSM 850 Band	19.91	ERP	0.098
GPRS 850 Band	19.13	ERP	0.082
EDGE 850 Band	18.71	ERP	0.074
GSM 1900 Band	26.20	EIRP	0.417
GPRS 1900 Band	25.60	EIRP	0.363
EDGE 1900 Band	24.61	EIRP	0.289
WCDMA Band II	21.11	EIRP	0.129
HSDPA Band II	22.78	EIRP	0.190
HSUPA Band II	22.17	EIRP	0.165
WCDMA Band V	13.28	ERP	0.021
HSDPA Band V	13.65	ERP	0.023
HSUPA Band V	13.57	ERP	0.023
LTE Band 5 / Bandwidth 1.4MMz / QPSK	15.78	ERP	0.038
LTE Band 5 / Bandwidth 1.4MMz / 16QAM	16.21	ERP	0.042
LTE Band 5 / Bandwidth 3MMz / QPSK	16.14	ERP	0.041
LTE Band 5 / Bandwidth 3MMz / 16QAM	16.69	ERP	0.047
LTE Band 5 / Bandwidth 5MMz / QPSK	15.91	ERP	0.039
LTE Band 5 / Bandwidth 5MMz / 16QAM	16.40	ERP	0.044
LTE Band 5 / Bandwidth 10MMz / QPSK	15.96	ERP	0.039
LTE Band 5 / Bandwidth 10MMz / 16QAM	16.06	ERP	0.040
LTE Band 7 / Bandwidth 5MMz / QPSK	28.51	EIRP	0.710
LTE Band 7 / Bandwidth 5MMz / 16QAM	29.54	EIRP	0.899
LTE Band 7 / Bandwidth 10MMz / QPSK	26.23	EIRP	0.420
LTE Band 7 / Bandwidth 10MMz / 16QAM	27.01	EIRP	0.502
LTE Band 7 / Bandwidth 15MMz / QPSK	28.84	EIRP	0.766
LTE Band 7 / Bandwidth 15MMz / 16QAM	29.10	EIRP	0.813
LTE Band 7 / Bandwidth 20MMz / QPSK	27.84	EIRP	0.608
LTE Band 7 / Bandwidth 20MMz / 16QAM	28.53	EIRP	0.713

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## 1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is PDA Phone supporting, GSM / WCDMA / LTE, Wi-Fi 802.11abgn, Bluetooth with GPS and NFC features, and below is details of information.

Product Feature	
Product Name:	PDA Phone
Brand Name:	Sony
Type No.:	PM-0873-BV
Model Difference:	N/A
FCC ID	PY7-PM0873
GSM Operating Band(s)	GSM 850 / 1900MHz
GPRS / EGPRS Multi Slot Class	Class 12
WCDMA Operating Band(s)	FDD Band II / V
WCDMA Rel. Version	Release 8
LTE Operating Band(s)	FCC Band 5 / 7
LTE Rel. Version	Release 9 / Category 4
Wi-Fi Specification	802.11 a/b/g/n
Bluetooth Version	V4.0 dual mode+HS
NFC Specification	NFC

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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### 1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

### 1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-5

### 1.5. Special Accessories

No special accessories were used during testing.

### 1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3. Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

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## 2.4. Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 0.4 dB for low band and 0.7 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.4+10+3.2=13.6(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.7+10+3.2=13.9(dB)

## 2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.8 Vdc	681
GSM 1900	3.8 Vdc	533
GPRS 850	3.8 Vdc	514
GPRS 1900	3.8 Vdc	526
EDGE 850	3.8 Vdc	597
EDGE 1900	3.8 Vdc	618
WCDMA B2	3.8 Vdc	536
WCDMA B5	3.8 Vdc	526
HSUPA B2	3.8 Vdc	527
HSUPA B5	3.8 Vdc	519
HSDPA B2	3.8 Vdc	533
HSDPA B5	3.8 Vdc	548

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	3.8 Vdc	1023
LTE Band 5_1.4M 16QAM	3.8 Vdc	976
LTE Band 5_3M QPSK	3.8 Vdc	1028
LTE Band 5_3M 16QAM	3.8 Vdc	970
LTE Band 5_5M QPSK	3.8 Vdc	1044
LTE Band 5_5M 16QAM	3.8 Vdc	975
LTE Band 5_10M QPSK	3.8 Vdc	1032
LTE Band 5_10M 16QAM	3.8 Vdc	976
LTE Band 7_5M QPSK	3.8 Vdc	727
LTE Band 7_5M 16QAM	3.8 Vdc	678
LTE Band 7_10M QPSK	3.8 Vdc	736
LTE Band 7_10M 16QAM	3.8 Vdc	685
LTE Band 7_15M QPSK	3.8 Vdc	752
LTE Band 7_15M 16QAM	3.8 Vdc	703
LTE Band 7_20M QPSK	3.8 Vdc	756
LTE Band 7_20M 16QAM	3.8 Vdc	705

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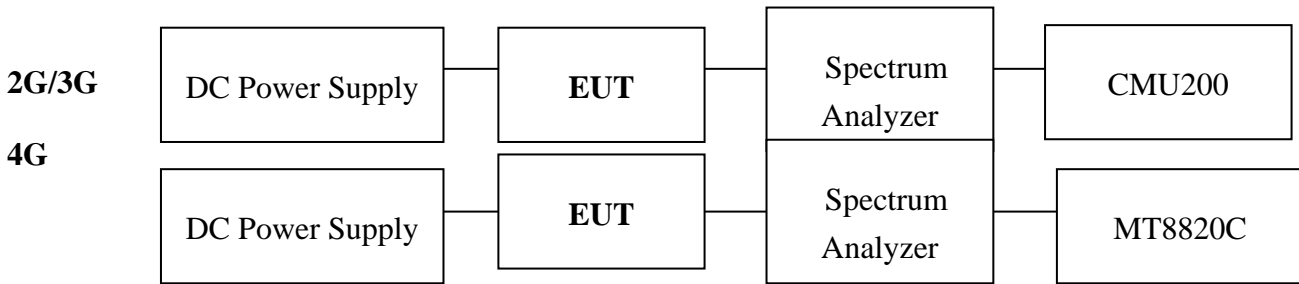
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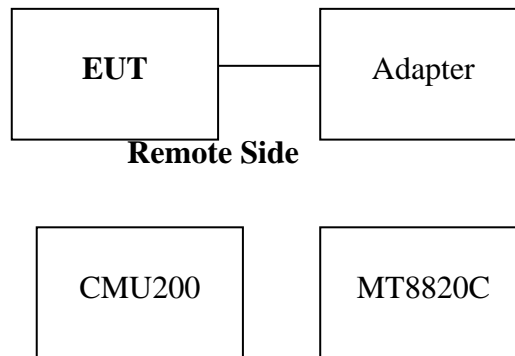
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## 2.6. Configuration of Tested System

**Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)**



**Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)**



**Table 2-1 Equipment Used in**

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	KR93300208	shielded	Un-shielded

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(f) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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#### 4. DESCRIPTION OF TEST MODES

##### 4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
GSM/GPRS/EDGE 850	E2-plan	E2-plan
GSM/GPRS/EDGE 1900	E1-plan	E1-plan
WCDMA/HSPA Band II	E1-plan	E1-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 5	H-plan	H-plan
LTE Band 7	E1-plan	E1-plan

##### GSM/GPRS/EDGE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GSM/GPRS/EDGE 850
EIRP	512 to 810	512, 661, 810	GSM/GPRS/EDGE 1900
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	190 661	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GSM/EDGE 850 GSM/EDGE 1900
CONDCUDED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/EDGE 850 GSM/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM 850 GSM 1900

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9583	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4183 9400	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9583	WCDMA Band II WCDMA Band V
CONDUCTED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	HSDPA Band II HSDPA Band V

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	1 RB/ 14 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26775 to 21425	26775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26775 to 21425	26775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26775 to 21425	26775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20825 to 21375	20825, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	26775 to 21425	26775, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20825 to 21375	20825, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	26775 to 21425	26775, 21100, 21425	5MHz	QPSK,	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB, 0 RB Offest
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26775 to 21425	26775, 21100, 21425	5MHz	16QAM	1 RB/ 0 RB Offest

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## 5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

### Radiated Spurious Emission:

Measurement uncertainty (Polarization : <b>Vertical</b> )	30MHz - 180MHz: +/- 3.37dB
	180MHz - 417MHz: +/- 3.19dB
	0.417GHz - 1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	30MHz - 167MHz: +/- 4.22dB
	167MHz - 500MHz: +/- 3.44dB
	0.5GHz - 1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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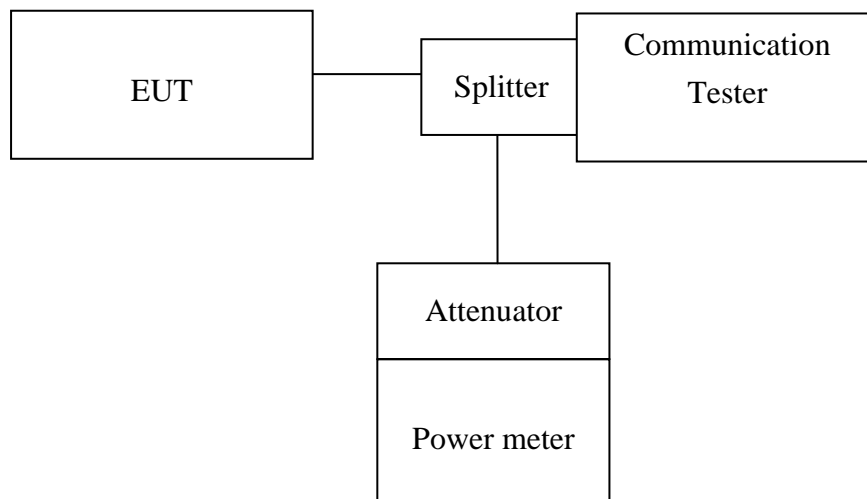
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## 6. RF CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

### 6.2. Test Set-up



*Note: Measurement setup for testing on Antenna connector*

### 6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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#### 6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/20/2014	12/19/2015
Power Sensor	Anritsu	MA2411B	917032	12/20/2014	12/19/2015
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

#### 6.5. Measurement Result

##### RF Conducted Output Power

##### GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 850	824.2	128	<b>33.40</b>	33.30
	836.6	190	33.40	33.20
	848.8	251	33.30	33.10
GSM 1900	1850.2	512	30.40	30.20
	1880.0	661	30.30	30.20
	1909.8	810	<b>30.50</b>	30.40

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	<b>33.50</b>	33.30	29.70	29.50	28.40	28.20	28.00	27.80
	836.6	190	33.30	33.20	29.60	29.40	28.20	28.10	27.80	27.70
	848.8	251	33.30	33.20	29.50	29.30	28.20	28.00	27.80	27.60
GPRS 1900	1850.2	512	<b>29.30</b>	29.20	27.60	27.50	26.50	26.40	25.60	25.50
	1880.0	661	29.30	29.10	27.60	27.50	26.50	26.40	25.60	25.50
	1909.8	810	29.30	29.20	27.70	27.60	26.60	26.50	25.60	25.50
EDGE 850	824.2	128	29.40	26.20	28.80	25.60	26.90	24.10	26.90	23.80
	836.6	190	29.90	26.70	29.60	26.00	27.40	24.30	27.30	24.30
	848.8	251	<b>30.10</b>	26.80	29.20	25.90	27.50	24.40	27.60	24.40
EDGE 1900	1850.2	512	28.50	25.10	27.70	24.40	27.90	24.20	27.70	24.30
	1880.0	661	<b>28.70</b>	25.00	27.90	24.20	27.70	24.20	27.70	24.20
	1909.8	810	28.20	25.00	28.00	24.30	27.90	24.30	27.90	24.20

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**WCDMA MODE:**

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

**Results:**

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	26.72	23.98
	1880.0	9400	<b>27.09</b>	23.96
	1907.6	9538	26.79	23.99
WCDMA Band V	826.4	4132	<b>26.76</b>	23.41
	836.6	4183	26.74	23.40
	846.6	4233	26.72	23.37
HSDPA Band II	1852.4	9262	26.41	22.88
	1880.0	9400	<b>26.81</b>	23.03
	1907.6	9538	26.11	22.91
HSDPA Band V	826.4	4132	26.15	22.35
	836.6	4183	<b>26.30</b>	22.34
	846.6	4233	26.18	22.27
HSUPA Band II	1852.4	9262	26.01	22.84
	1880.0	9400	<b>26.74</b>	23.02
	1907.6	9538	26.54	23.11
HSUPA Band V	826.4	4132	26.01	22.39
	836.6	4183	26.03	22.27
	846.6	4233	<b>26.22</b>	22.30

Note: The results above reflect max power with all up bits.

Cable loss offset Low Band: 13.6dB

Cable loss offset High Band: 13.9dB

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**LTE Result:**

**LTE Band 5**

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	22.88	22.83	22.86	<b>22.27</b>	22.22	22.26
	1	5	22.85	22.83	22.82	22.24	22.23	22.01
	3	2	<b>22.92</b>	22.87	22.83	21.95	21.88	21.86
	6	0	21.98	21.92	21.92	21.03	20.99	21.02

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635	Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635
3	1	0	22.76	<b>22.86</b>	22.77	22.10	22.04	21.98
	1	14	22.81	22.81	22.70	22.12	22.09	<b>22.19</b>
	8	4	21.95	21.94	21.95	20.95	21.02	20.95
	15	0	21.93	21.92	21.93	20.97	20.98	20.99

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625	Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625
5	1	0	22.76	22.73	<b>22.97</b>	22.06	22.03	22.25
	1	24	22.69	22.85	22.87	<b>22.30</b>	22.05	22.05
	12	6	21.95	22.00	22.03	21.02	21.01	21.06
	25	0	21.95	21.92	21.95	20.97	20.97	21.04

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	23.25	<b>23.34</b>	23.30	22.59	22.55	<b>22.66</b>
	1	49	23.30	23.24	23.21	22.53	22.62	22.57
	25	12	22.26	22.26	22.28	21.27	21.24	21.31
	50	0	22.29	22.29	22.31	21.31	21.30	21.34

**LTE Band 7**

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	21.36	21.35	<b>21.44</b>	20.60	20.60	20.50
	1	24	21.42	21.25	21.39	20.51	<b>20.66</b>	20.63
	12	6	20.47	20.38	20.52	19.40	19.40	19.38
	25	0	20.43	20.35	20.47	19.43	19.34	19.47

LTE Band 13_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (Low) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (Low) 21400
10	1	0	21.38	21.43	<b>21.46</b>	20.65	20.65	<b>20.79</b>
	1	49	21.42	21.25	21.40	20.64	20.52	20.58
	25	12	20.44	20.33	20.48	19.43	19.30	19.44
	50	0	20.48	20.37	20.48	19.50	19.36	19.47

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**LTE Band 7**

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375	Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375
15	1	0	21.37	21.39	21.28	20.78	20.75	20.59
	1	74	21.51	21.23	<b>21.74</b>	<b>20.79</b>	20.61	20.60
	36	19	20.54	20.38	20.47	19.51	19.38	19.44
	75	0	20.50	20.35	20.45	19.50	19.33	19.42

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	<b>21.72</b>	21.72	21.59	20.85	<b>21.02</b>	20.97
	1	99	21.68	21.58	21.63	20.94	21.01	20.98
	50	25	20.77	20.66	20.71	19.74	19.57	19.36
	100	0	20.49	20.60	20.66	19.75	19.56	19.62

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**HSDPA Release 6 MODE:**

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

**HSDPA SUB-TEST Setting**

Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	$\beta_c$	$\beta_a$	$\beta_a$ (SF)	$\beta_c/\beta_a$	$\beta_{HS}$ (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

**Note: The recommended HSDPA MPRs are implemented as per following sub-tests.**

**Results:**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.57	23.62	23.31	20.3dBm – 25.7dBm	Pass
	2	23.28	23.59	23.30	20.3dBm – 25.7dBm	Pass
	3	23.09	23.17	22.78	19.8dBm – 25.7dBm	Pass
	4	23.16	23.18	22.90	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.19	23.42	23.72	20.3dBm – 25.7dBm	Pass
	2	23.33	23.45	23.47	20.3dBm – 25.7dBm	Pass
	3	22.73	22.94	23.23	19.8dBm – 25.7dBm	Pass
	4	22.78	22.98	23.29	19.8dBm – 25.7dBm	Pass

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**HSPA (HSDPA & HSUPA) Release 6 MODE**

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

**HSPA SUB-TEST Setting**

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	$\beta_c$	$\beta_a$	$\beta_a$ (SF)	$\beta_c/\beta_a$	$\beta_{HS}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}$ : 47/15 $\beta_{ed2}$ : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

**Note: The recommended HSUPA MPRs are implemented as per following sub-tests.**

**Results:**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.32	23.71	23.39	18.8dBm – 25.7dBm	Pass
	2	21.37	21.78	21.43	16.8dBm – 25.7dBm	Pass
	3	22.38	22.73	22.47	17.8dBm – 25.7dBm	Pass
	4	21.50	21.83	21.47	16.8dBm – 25.7dBm	Pass
	5	23.21	23.57	23.30	18.8dBm – 25.7dBm	Pass
		<b>4132</b>	<b>4183</b>	<b>4233</b>		
HSUPA(B5)	1	23.36	23.49	23.52	18.8dBm – 25.7dBm	Pass
	2	21.42	21.57	21.56	16.8dBm – 25.7dBm	Pass
	3	22.40	22.55	22.60	17.8dBm – 25.7dBm	Pass
	4	21.47	21.63	21.64	16.8dBm – 25.7dBm	Pass
	5	23.22	23.32	23.41	18.8dBm – 25.7dBm	Pass

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**Minimum Communications Power Measurement**

**PCS 1900 band**

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.2	27.3	25.3	23.1	21.2	19.2	17.2	15.1	13.2

PCL	9	10	11	12	13	14	15
Output power (dBm)	11.3	9.2	7.1	5.2	3.2	1.3	-0.1

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

**WCDMA/HSDPA/HSUPA band II, V**

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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## 7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

### 7.1 Standard Applicable

FCC 22.913(a) Mobile station is limited to 7W.

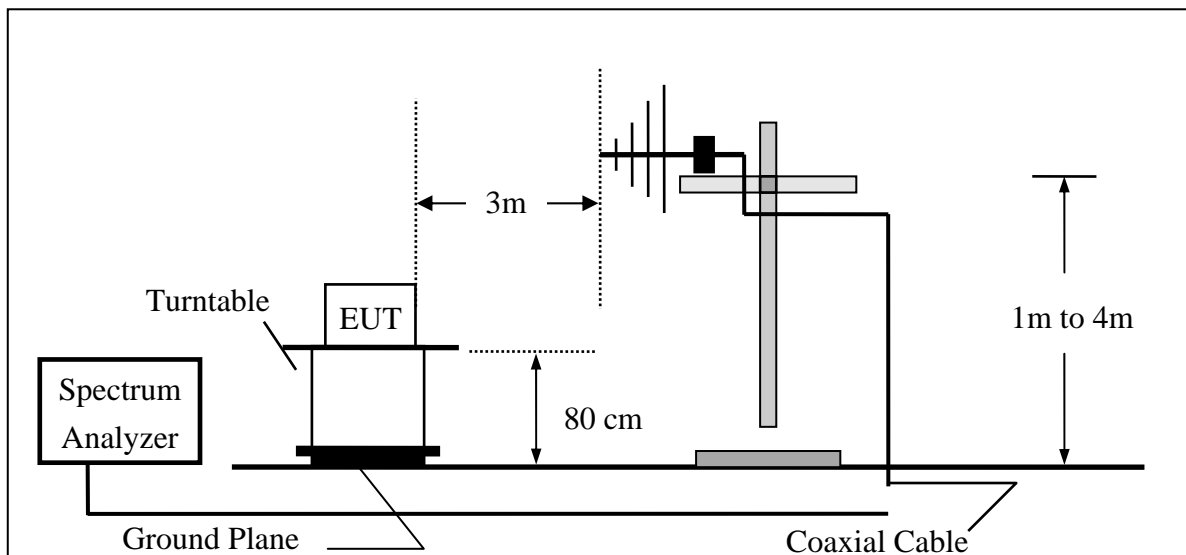
FCC 24.232(b) Mobile station is limited to 2W.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W.

FCC 27, 50(d)(4) Portable stations are limited to 1W

### 7.2 Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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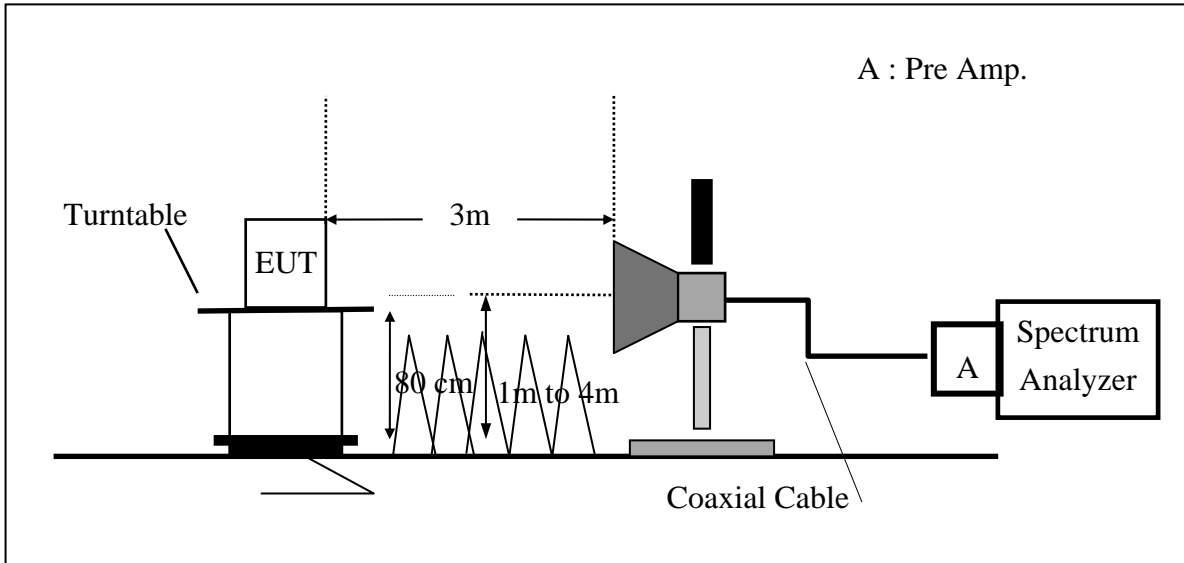
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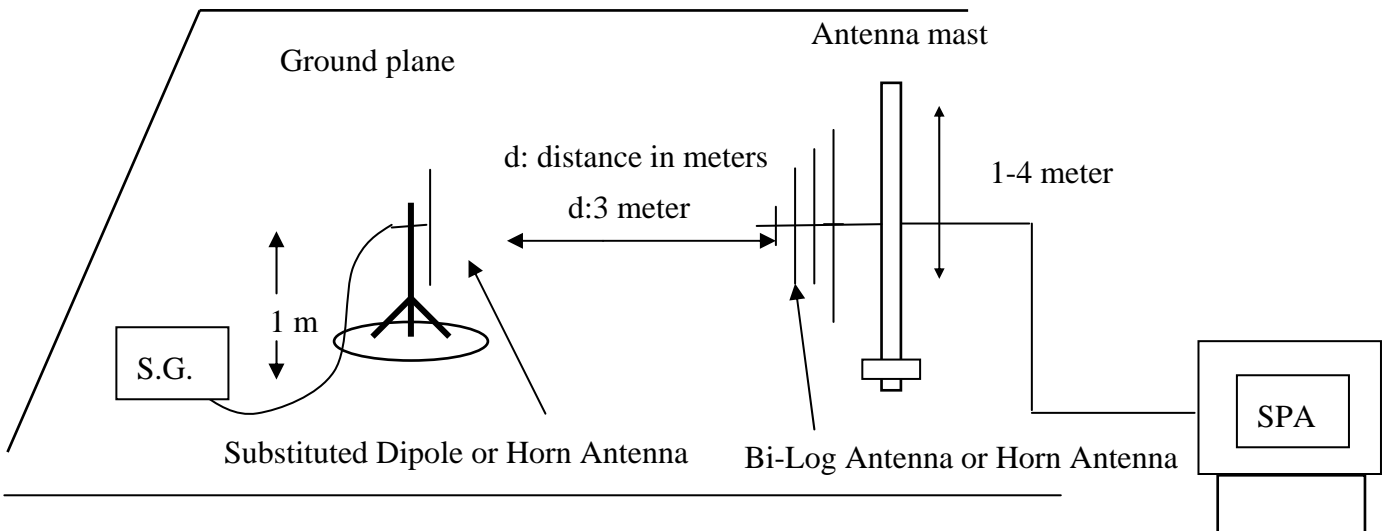
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 7.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
  - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and  $VBW \geq 3 \times RBW$ .
  - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.  
Set frequency = nominal signal center frequency;  
Set span = 2 X occupied BW;  
Set RBW  $\approx$  1~5% of the span, not to exceed 1 MHz  
Set VBW = 3 x RBW;  
Select average power (RMS) detector  
Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time =  $601 * 10^{-3} = 6s$ ).

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Activate trace averaging routine over a minimum of 10 sweeps;  
Activate marker/span pair and set span = signal or channel bandwidth;  
Activate the band/interval power marker function;  
Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of  $10 \cdot \log(TBW/RBW)$ , where TBW is the transmission of UE exceeding the maximum BW UE can extend, and RBW is the resolution BW in UE.

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7.4 Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

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7.5 Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	12.83	3.45	-2.94	13.35	38.45
			H	19.4	3.45	-2.94	<b>19.91</b>	38.45
	836.6	190	V	10.19	3.46	-2.97	10.67	38.45
			H	18.38	3.46	-2.97	18.87	38.45
	848.8	251	V	11.38	3.47	-3.01	11.84	38.45
			H	17.11	3.47	-3.01	17.57	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	11.39	3.45	-2.94	11.91	38.45
			H	18.61	3.45	-2.94	<b>19.13</b>	38.45
	836.6	190	V	10.00	3.46	-2.97	10.48	38.45
			H	18.02	3.46	-2.97	18.51	38.45
	848.8	251	V	11.08	3.47	-3.01	11.54	38.45
			H	16.83	3.47	-3.01	17.29	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	824.2	128	V	9.55	3.45	-2.94	10.07	38.45
			H	18.19	3.45	-2.94	<b>18.71</b>	38.45
	836.6	190	V	8.96	3.46	-2.97	9.45	38.45
			H	17.23	3.46	-2.97	17.72	38.45
	848.8	251	V	10.40	3.47	-3.01	10.86	38.45
			H	16.22	3.47	-3.01	16.68	38.45

Remark : (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	25.84	4.84	-4.49	<b>26.20</b>	33.01
			H	23.39	4.84	-4.49	23.75	33.01
	1880.0	661	V	24.47	4.79	-4.53	24.74	33.01
			H	23.67	4.79	-4.53	23.94	33.01
	1909.8	810	V	25.6	4.74	-4.57	25.78	33.01
			H	22.53	4.74	-4.57	22.71	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	25.24	4.84	-4.49	<b>25.60</b>	33.01
			H	22.86	4.84	-4.49	23.22	33.01
	1880.0	661	V	24.15	4.79	-4.53	24.42	33.01
			H	22.54	4.79	-4.53	22.8	33.01
	1909.8	810	V	24.79	4.74	-4.57	24.97	33.01
			H	21.69	4.74	-4.57	21.87	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	1850.2	512	V	24.25	4.84	-4.49	<b>24.61</b>	33.01
			H	21.66	4.84	-4.49	22.02	33.01
	1880.0	661	V	23.08	4.79	-4.53	23.35	33.01
			H	21.82	4.79	-4.53	22.09	33.01
	1909.8	810	V	23.76	4.74	-4.57	23.94	33.01
			H	20.45	4.74	-4.57	20.63	33.01

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW=300K, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
WCDMA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	20.76	4.84	-4.49	<b>21.11</b>	33.01
			H	17.85	4.84	-4.49	18.20	33.01
	1880.0	9400	V	19.79	4.79	-4.53	20.05	33.01
			H	18.16	4.79	-4.53	18.43	33.01
	1907.6	9538	V	20.61	4.75	-4.56	20.80	33.01
H			17.43	4.75	-4.56	17.61	33.01	

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSDPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	22.43	4.84	-4.49	<b>22.78</b>	33.01
			H	19.24	4.84	-4.49	19.59	33.01
	1880.0	9400	V	21.29	4.79	-4.53	21.55	33.01
			H	19.27	4.79	-4.53	19.54	33.01
	1907.6	9538	V	21.88	4.75	-4.56	22.06	33.01
H			18.72	4.75	-4.56	18.91	33.01	

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSUPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	21.82	4.84	-4.49	<b>22.17</b>	33.01
			H	18.56	4.84	-4.49	18.92	33.01
	1880.0	9400	V	20.48	4.79	-4.53	20.75	33.01
			H	18.82	4.79	-4.53	19.09	33.01
	1907.6	9538	V	21.10	4.75	-4.56	21.29	33.01
H			18.09	4.75	-4.56	18.27	33.01	

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	2.54	3.46	-2.95	3.05	38.45
			H	11.95	3.46	-2.95	12.46	38.45
	836.6	4183	V	5.50	3.46	-2.97	5.99	38.45
			H	10.17	3.46	-2.97	10.66	38.45
	846.6	4233	V	5.32	3.47	-3.01	5.79	38.45
			H	12.82	3.47	-3.00	<b>13.28</b>	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	3.78	3.46	-2.95	4.29	38.45
			H	12.52	3.46	-2.95	13.03	38.45
	836.6	4183	V	6.01	3.46	-2.97	6.50	38.45
			H	12.11	3.46	-2.97	12.60	38.45
	846.6	4233	V	5.93	3.47	-3.01	6.39	38.45
			H	13.18	3.47	-3.00	<b>13.65</b>	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	3.36	3.46	-2.95	3.87	38.45
			H	12.24	3.46	-2.95	12.75	38.45
	836.6	4183	V	5.97	3.46	-2.97	6.46	38.45
			H	11.65	3.46	-2.97	12.14	38.45
	846.6	4233	V	6.05	3.47	-3.00	6.52	38.45
			H	13.10	3.47	-3.00	<b>13.57</b>	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
<b>BAND 5 BW: 1.4M QPSK RB: 1,0</b>	824.7	20407	V	15.26	3.46	-2.94	<b>15.78</b>	38.45
			H	14.26	3.46	-2.94	14.77	38.45
	836.5	20525	V	13.32	3.46	-2.97	13.81	38.45
			H	11.92	3.46	-2.97	12.41	38.45
	848.3	20643	V	13.48	3.47	-3.00	13.95	38.45
			H	9.59	3.47	-3.00	10.05	38.45
<b>BAND 5 BW: 1.4M QPSK RB: 1,5</b>	824.7	20407	V	15.00	3.46	-2.94	<b>15.52</b>	38.45
			H	14.53	3.46	-2.94	15.05	38.45
	836.5	20525	V	13.48	3.46	-2.97	13.96	38.45
			H	11.87	3.46	-2.97	12.36	38.45
	848.3	20643	V	13.19	3.47	-3.01	13.66	38.45
			H	9.17	3.47	-3.01	9.63	38.45
<b>BAND 5 BW: 1.4M 16QAM RB: 1,0</b>	824.7	20407	V	15.22	3.45	-2.94	<b>15.74</b>	38.45
			H	14.23	3.46	-2.94	14.75	38.45
	836.5	20525	V	13.52	3.46	-2.97	14.01	38.45
			H	11.93	3.46	-2.97	12.42	38.45
	848.3	20643	V	13.77	3.47	-3.01	14.23	38.45
			H	9.83	3.47	-3.00	10.30	38.45
<b>BAND 5 BW: 1.4M 16QAM RB: 1,5</b>	824.7	20407	V	15.70	3.45	-2.94	<b>16.21</b>	38.45
			H	15.00	3.46	-2.94	15.51	38.45
	836.5	20525	V	13.75	3.46	-2.97	14.24	38.45
			H	12.03	3.46	-2.97	12.52	38.45
	848.3	20643	V	13.45	3.47	-3.01	13.91	38.45
			H	9.37	3.47	-3.01	9.83	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
<b>BAND 5 BW: 3M QPSK RB: 1,0</b>	825.5	20415	V	15.20	3.46	-2.94	<b>15.72</b>	38.45
			H	14.31	3.45	-2.94	14.83	38.45
	836.5	20525	V	13.29	3.46	-2.97	13.78	38.45
			H	11.86	3.46	-2.97	12.35	38.45
	847.5	20635	V	13.80	3.47	-3.00	14.26	38.45
			H	9.94	3.47	-3.00	10.41	38.45
<b>BAND 5 BW: 3M QPSK RB: 1,14</b>	825.5	20415	V	15.63	3.46	-2.94	<b>16.14</b>	38.45
			H	14.32	3.46	-2.94	14.83	38.45
	836.5	20525	V	13.65	3.46	-2.98	14.14	38.45
			H	11.98	3.46	-2.98	12.47	38.45
	847.5	20635	V	13.12	3.47	-3.01	13.58	38.45
			H	8.84	3.47	-3.01	9.30	38.45
<b>BAND 5 BW: 3M 16QAM RB: 1,0</b>	825.5	20415	V	15.12	3.45	-2.94	<b>15.64</b>	38.45
			H	14.16	3.45	-2.94	14.67	38.45
	836.5	20525	V	13.39	3.46	-2.97	13.88	38.45
			H	11.98	3.46	-2.97	12.47	38.45
	847.5	20635	V	14.09	3.47	-3.00	14.56	38.45
			H	10.27	3.47	-3.00	10.73	38.45
<b>BAND 5 BW: 3M 16QAM RB: 1,14</b>	825.5	20415	V	16.18	3.46	-2.94	<b>16.69</b>	38.45
			H	15.08	3.46	-2.94	15.59	38.45
	836.5	20525	V	14.05	3.46	-2.98	14.53	38.45
			H	12.18	3.46	-2.98	12.66	38.45
	847.5	20635	V	13.36	3.47	-3.01	13.83	38.45
			H	9.04	3.47	-3.01	9.50	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
<b>BAND 5 BW: 5M QPSK RB: 1,0</b>	826.5	20425	V	15.16	3.46	-2.94	15.67	38.45
			H	14.34	3.46	-2.94	14.85	38.45
	836.5	20525	V	13.02	3.46	-2.97	13.51	38.45
			H	11.75	3.46	-2.97	12.24	38.45
	846.5	20625	V	15.44	3.46	-2.99	<b>15.91</b>	38.45
			H	12.20	3.46	-2.99	12.67	38.45
<b>BAND 5 BW: 5M QPSK RB: 1,24</b>	826.5	20425	V	15.07	3.46	-2.95	<b>15.57</b>	38.45
			H	14.41	3.46	-2.95	14.92	38.45
	836.5	20525	V	14.01	3.46	-2.98	14.50	38.45
			H	11.93	3.46	-2.98	12.42	38.45
	846.5	20625	V	13.41	3.47	-3.01	13.87	38.45
			H	9.34	3.47	-3.01	9.80	38.45
<b>BAND 5 BW: 5M 16QAM RB: 1,0</b>	826.5	20425	V	15.40	3.45	-2.94	15.92	38.45
			H	14.59	3.45	-2.94	15.11	38.45
	836.5	20525	V	13.33	3.46	-2.97	13.82	38.45
			H	12.04	3.46	-2.97	12.54	38.45
	846.5	20625	V	15.93	3.46	-2.99	<b>16.40</b>	38.45
			H	12.70	3.46	-2.99	13.18	38.45
<b>BAND 5 BW: 5M 16QAM RB: 1,24</b>	826.5	20425	V	15.30	3.46	-2.95	<b>15.81</b>	38.45
			H	14.62	3.46	-2.95	15.13	38.45
	836.5	20525	V	14.49	3.46	-2.98	14.97	38.45
			H	12.35	3.46	-2.98	12.84	38.45
	846.5	20625	V	13.57	3.47	-3.01	14.03	38.45
			H	9.35	3.47	-3.01	9.81	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
<b>BAND 5 BW: 10M QPSK RB: 1,0</b>	829.0	20450	V	14.98	3.46	-2.94	<b>15.50</b>	38.45
			H	13.99	3.46	-2.94	14.51	38.45
	836.5	20525	V	13.24	3.46	-2.96	13.74	38.45
			H	12.30	3.46	-2.96	12.80	38.45
	844.0	20600	V	14.60	3.46	-2.98	15.08	38.45
			H	12.29	3.46	-2.98	12.77	38.45
<b>BAND 5 BW: 10M QPSK RB: 1,49</b>	829.0	20450	V	13.27	3.46	-2.97	13.76	38.45
			H	11.88	3.46	-2.97	12.37	38.45
	836.5	20525	V	15.48	3.46	-2.99	<b>15.96</b>	38.45
			H	12.57	3.46	-2.99	13.05	38.45
	844.0	20600	V	13.13	3.47	-3.01	13.59	38.45
			H	9.26	3.47	-3.01	9.72	38.45
<b>BAND 5 BW: 10M 16QAM RB: 1,0</b>	829.0	20450	V	15.54	3.46	-2.94	<b>16.06</b>	38.45
			H	14.53	3.45	-2.94	15.04	38.45
	836.5	20525	V	13.53	3.46	-2.96	14.03	38.45
			H	12.59	3.46	-2.96	13.09	38.45
	844.0	20600	V	15.04	3.46	-2.98	15.52	38.45
			H	12.74	3.46	-2.98	13.23	38.45
<b>BAND 5 BW: 10M 16QAM RB: 1,49</b>	829.0	20450	V	13.29	3.46	-2.96	13.78	38.45
			H	12.18	3.46	-2.97	12.67	38.45
	836.5	20525	V	15.52	3.46	-2.99	<b>16.00</b>	38.45
			H	13.09	3.46	-2.99	13.57	38.45
	844.0	20600	V	13.57	3.47	-3.01	14.03	38.45
			H	9.48	3.47	-3.01	9.94	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
<b>BAND 7 BW: 5M QPSK RB: 1,0</b>	2502.5	20775	V	27.87	5.80	-5.34	<b>28.33</b>	33.01
			H	22.63	5.80	-5.34	23.09	33.01
	2535.0	21100	V	27.30	5.87	-5.38	27.78	33.01
			H	19.96	5.87	-5.39	20.45	33.01
	2567.5	21425	V	22.62	5.94	-5.44	23.12	33.01
			H	17.63	5.94	-5.44	18.13	33.01
<b>BAND 7 BW: 5M QPSK RB: 1,24</b>	2502.5	20775	V	28.05	5.81	-5.35	<b>28.51</b>	33.01
			H	21.00	5.81	-5.35	21.47	33.01
	2535.0	21100	V	27.93	5.88	-5.39	28.42	33.01
			H	20.15	5.88	-5.39	20.64	33.01
	2567.5	21425	V	23.75	5.95	-5.44	24.25	33.01
			H	17.68	5.95	-5.44	18.19	33.01
<b>BAND 7 BW: 5M 16QAM RB: 1,0</b>	2502.5	20775	V	29.08	5.80	-5.34	<b>29.54</b>	33.01
			H	20.65	5.80	-5.34	21.10	33.01
	2535.0	21100	V	27.77	5.87	-5.39	28.25	33.01
			H	20.56	5.87	-5.38	21.04	33.01
	2567.5	21425	V	22.93	5.94	-5.44	23.44	33.01
			H	17.41	5.94	-5.44	17.91	33.01
<b>BAND 7 BW: 5M 16QAM RB: 1,24</b>	2502.5	20775	V	28.74	5.81	-5.35	<b>29.21</b>	33.01
			H	21.61	5.81	-5.35	22.07	33.01
	2535.0	21100	V	28.63	5.88	-5.39	29.12	33.01
			H	20.88	5.88	-5.39	21.36	33.01
	2567.5	21425	V	24.27	5.95	-5.44	24.77	33.01
			H	17.98	5.95	-5.44	18.48	33.01

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
<b>BAND 7 BW: 10M QPSK RB: 1,0</b>	2505.0	20800	V	25.63	5.80	-5.34	<b>26.08</b>	33.01
			H	19.60	5.80	-5.34	20.06	33.01
	2535.0	21100	V	24.10	5.87	-5.38	24.58	33.01
			H	18.32	5.87	-5.38	18.80	33.01
	2565.0	21400	V	24.62	5.93	-5.43	25.12	33.01
			H	16.50	5.93	-5.43	17.00	33.01
<b>BAND 7 BW: 10M QPSK RB: 1,49</b>	2505.0	20800	V	24.86	5.82	-5.35	25.33	33.01
			H	19.57	5.82	-5.35	20.04	33.01
	2535.0	21100	V	25.74	5.88	-5.40	<b>26.23</b>	33.01
			H	18.76	5.88	-5.40	19.25	33.01
	2565.0	21400	V	23.09	5.95	-5.44	23.59	33.01
			H	17.34	5.95	-5.44	17.85	33.01
<b>BAND 7 BW: 10M 16QAM RB: 1,0</b>	2505.0	20800	V	26.33	5.80	-5.34	<b>26.79</b>	33.01
			H	20.33	5.80	-5.34	20.79	33.01
	2535.0	21100	V	24.83	5.87	-5.38	25.32	33.01
			H	19.07	5.87	-5.38	19.55	33.01
	2565.0	21400	V	25.11	5.93	-5.43	25.61	33.01
			H	17.04	5.93	-5.43	17.54	33.01
<b>BAND 7 BW: 10M 16QAM RB: 1,49</b>	2505.0	20800	V	25.68	5.82	-5.35	26.15	33.01
			H	20.32	5.82	-5.35	20.79	33.01
	2535.0	21100	V	26.53	5.88	-5.39	<b>27.01</b>	33.01
			H	19.48	5.89	-5.40	19.97	33.01
	2565.0	21400	V	23.58	5.95	-5.44	24.09	33.01
			H	17.88	5.95	-5.44	18.39	33.01

**Remark :**

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
<b>BAND 7 BW: 15M QPSK RB: 1,0</b>	2507.5	20825	V	27.68	5.80	-5.34	28.14	33.01
			H	19.37	5.80	-5.34	19.83	33.01
	2535.0	21100	V	28.36	5.86	-5.38	<b>28.84</b>	33.01
			H	20.98	5.86	-5.38	21.46	33.01
	2562.5	21375	V	25.69	5.92	-5.42	26.18	33.01
			H	19.64	5.92	-5.42	20.14	33.01
<b>BAND 7 BW: 15M QPSK RB: 1,74</b>	2507.5	20825	V	27.45	5.83	-5.36	<b>27.92</b>	33.01
			H	15.10	5.83	-5.36	15.57	33.01
	2535.0	21100	V	26.18	5.89	-5.40	26.67	33.01
			H	20.53	5.89	-5.40	21.02	33.01
	2562.5	21375	V	25.12	5.95	-5.44	25.63	33.01
			H	20.03	5.95	-5.44	20.54	33.01
<b>BAND 7 BW: 15M 16QAM RB: 1,0</b>	2507.5	20825	V	28.20	5.80	-5.34	28.66	33.01
			H	19.84	5.80	-5.34	20.30	33.01
	2535.0	21100	V	28.62	5.86	-5.38	<b>29.10</b>	33.01
			H	21.62	5.86	-5.38	22.11	33.01
	2562.5	21375	V	26.23	5.92	-5.42	26.73	33.01
			H	20.22	5.92	-5.42	20.72	33.01
<b>BAND 7 BW: 15M 16QAM RB: 1,74</b>	2507.5	20825	V	28.16	5.83	-5.36	<b>28.63</b>	33.01
			H	15.83	5.83	-5.36	16.30	33.01
	2535.0	21100	V	26.88	5.89	-5.40	27.37	33.01
			H	21.44	5.89	-5.40	21.93	33.01
	2562.5	21375	V	25.58	5.95	-5.44	26.09	33.01
			H	20.49	5.95	-5.44	21.00	33.01

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
<b>BAND 7 BW: 20M QPSK RB: 1,0</b>	2510.0	20850	V	25.89	5.80	-5.34	26.35	33.01
			H	21.98	5.80	-5.34	22.44	33.01
	2535.0	21100	V	27.35	5.86	-5.38	<b>27.84</b>	33.01
			H	21.09	5.86	-5.38	21.57	33.01
	2560.0	21350	V	24.91	5.91	-5.41	25.41	33.01
			H	19.08	5.91	-5.42	19.58	33.01
<b>BAND 7 BW: 20M QPSK RB: 1,99</b>	2510.0	20850	V	25.17	5.84	-5.36	25.65	33.01
			H	18.87	5.84	-5.36	19.34	33.01
	2535.0	21100	V	25.85	5.89	-5.40	<b>26.34</b>	33.01
			H	19.62	5.89	-5.40	20.11	33.01
	2560.0	21350	V	24.68	5.95	-5.44	25.18	33.01
			H	19.83	5.95	-5.44	20.34	33.01
<b>BAND 7 BW: 20M 16QAM RB: 1,0</b>	2510.0	20850	V	26.56	5.80	-5.34	27.02	33.01
			H	22.66	5.80	-5.34	23.12	33.01
	2535.0	21100	V	28.05	5.86	-5.37	<b>28.53</b>	33.01
			H	21.64	5.86	-5.38	22.12	33.01
	2560.0	21350	V	25.50	5.91	-5.41	26.00	33.01
			H	19.67	5.91	-5.41	20.17	33.01
<b>BAND 7 BW: 20M 16QAM RB: 1,99</b>	2510.0	20850	V	25.86	5.84	-5.36	26.34	33.01
			H	19.54	5.84	-5.36	20.02	33.01
	2535.0	21100	V	26.63	5.89	-5.40	<b>27.12</b>	33.01
			H	20.46	5.89	-5.40	20.95	33.01
	2560.0	21350	V	25.07	5.95	-5.44	25.58	33.01
			H	20.27	5.95	-5.44	20.77	33.01

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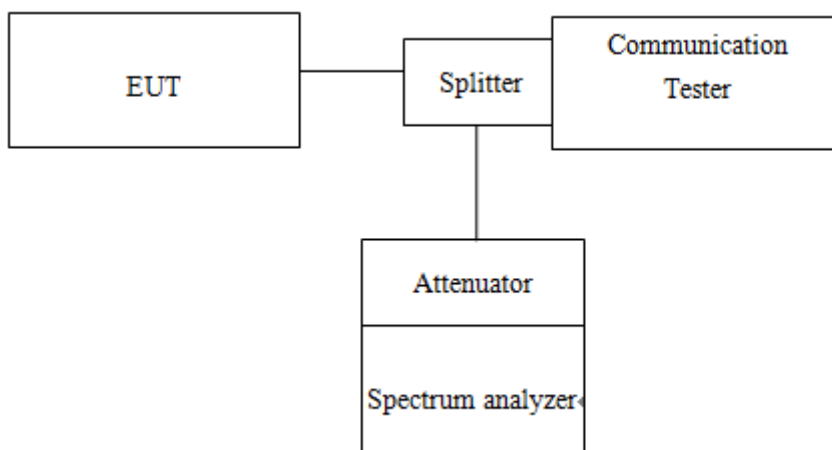


## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 8.2. Test Set-up



### 8.3. Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

**NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 26dB BW is arrow-mark**

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**8.4. Measurement Equipment Used**

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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### 8.5. Measurement Result

#### 99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	0.245	<b>0.250</b>	<b>0.254</b>
836.60	190	<b>0.246</b>	0.243	0.252
848.80	251	0.246	0.246	0.248

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	<b>0.246</b>	0.243	0.247
1880.00	661	0.245	0.243	0.244
1909.80	810	0.242	<b>0.248</b>	<b>0.248</b>

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1942	4.1705	4.2005
1880.00	9400	<b>4.2249</b>	<b>4.2377</b>	4.2004
1909.80	9538	4.1998	4.1748	<b>4.2268</b>

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1988	4.1917	4.1971
836.60	4183	4.2237	4.2131	4.2109
846.60	4233	<b>4.2354</b>	<b>4.2152</b>	<b>4.2350</b>

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.0967	1.1007	825.5	20415	2.7125	2.7019
836.5	20525	1.0966	1.0982	836.5	20525	2.7094	2.6964
848.3	20643	<b>1.0968</b>	<b>1.1035</b>	847.5	20635	<b>2.7183</b>	<b>2.7055</b>

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
826.5	20425	4.5049	4.5031	829.0	20450	9.0163	8.9692
836.5	20525	<b>4.5184</b>	<b>4.5231</b>	836.5	20525	<b>9.0202</b>	<b>9.0046</b>
846.5	20625	4.5077	4.5194	844.0	20600	8.9765	8.9565

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2502.5	20775	<b>4.5130</b>	<b>4.5197</b>	2505.0	20800	9.0299	<b>8.9650</b>
2535.0	21100	4.5029	4.5179	2535.0	21100	<b>9.0313</b>	8.3965
2567.5	21425	4.4996	4.5114	2565.0	21400	9.0265	8.9187

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2507.5	20825	<b>13.4585</b>	<b>13.4963</b>	2510.0	20850	17.8995	17.9308
2535.0	21100	13.4498	13.4387	2535.0	21100	<b>17.9518</b>	<b>17.9620</b>
2562.5	21375	13.4330	13.4624	2560.0	21350	17.8759	17.9040

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## 26dB Bandwidth

Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	<b>0.321</b>	0.317	<b>0.331</b>
836.60	190	0.310	<b>0.323</b>	0.315
848.80	251	0.318	0.322	0.314

Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	<b>0.317</b>	0.314	0.311
1880.00	661	0.316	<b>0.319</b>	<b>0.319</b>
1909.80	810	0.316	0.317	0.313

Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.792	4.828	<b>4.882</b>
1880.00	9400	<b>4.822</b>	<b>4.845</b>	4.774
1909.80	9538	4.813	4.754	4.815

Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.802	4.831	<b>4.845</b>
836.60	4183	4.807	<b>4.845</b>	4.820
846.60	4233	<b>4.812</b>	4.834	4.798

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
824.7	20407	<b>1.268</b>	1.270	825.5	20415	2.955	2.956
836.5	20525	1.265	1.271	836.5	20525	<b>2.970</b>	<b>2.962</b>
848.3	20643	1.260	<b>1.287</b>	847.5	20635	2.968	2.959

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
826.5	20425	<b>5.090</b>	5.023	829.0	20450	9.911	9.741
836.5	20525	4.946	<b>5.090</b>	836.5	20525	<b>9.912</b>	9.767
846.5	20625	5.050	4.956	844.0	20600	9.865	<b>9.770</b>

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2502.5	20775	<b>5.031</b>	<b>5.062</b>	2505.0	20800	9.854	<b>9.780</b>
2535.0	21100	4.921	5.062	2535.0	21100	9.929	9.443
2567.5	21425	4.940	5.062	2565.0	21400	<b>9.932</b>	9.471

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2507.5	20825	<b>15.035</b>	<b>14.877</b>	2510.0	20850	19.475	<b>19.518</b>
2535.0	21100	14.383	14.401	2535.0	21100	<b>19.539</b>	19.410
2562.5	21375	14.314	14.401	2560.0	21350	19.357	19.477

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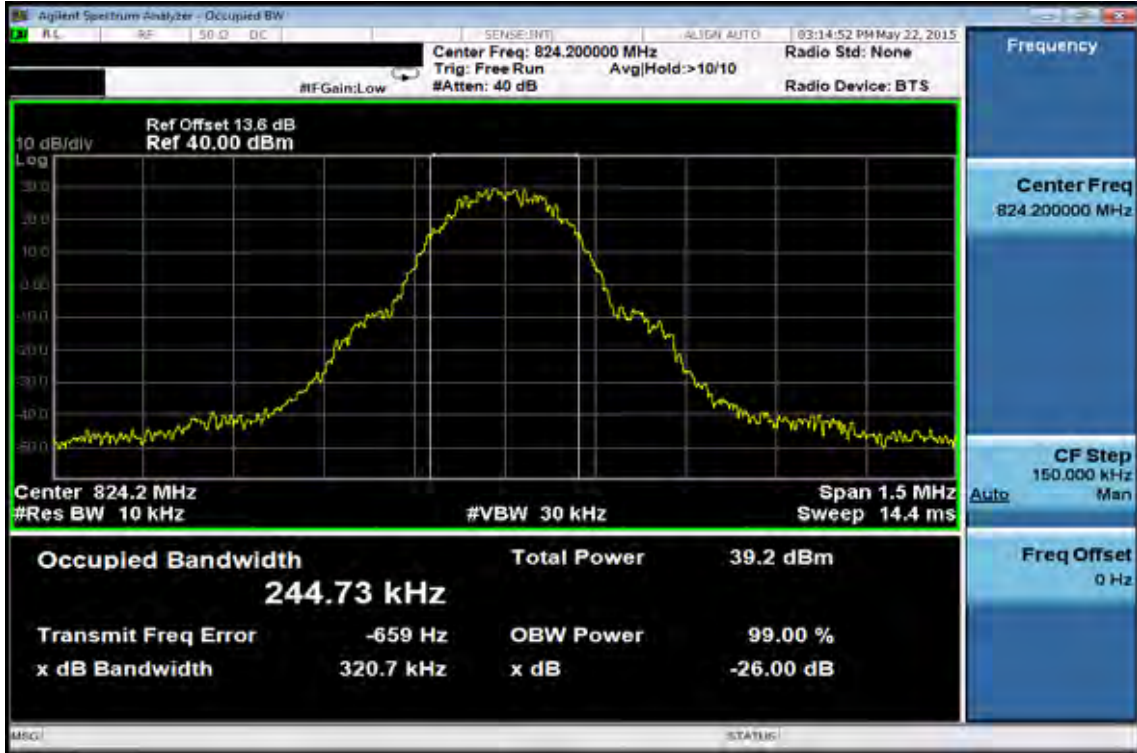
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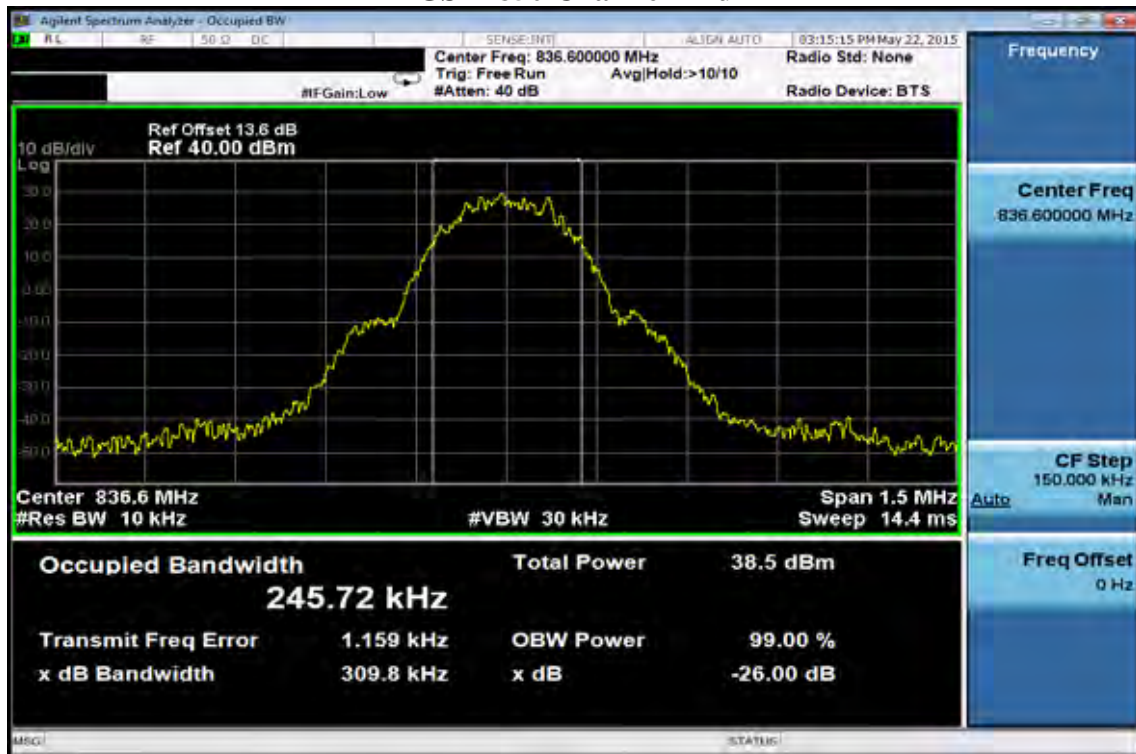


99% Bandwidth Test Data

GSM 850 Channel Low



GSM 850 Channel Mid



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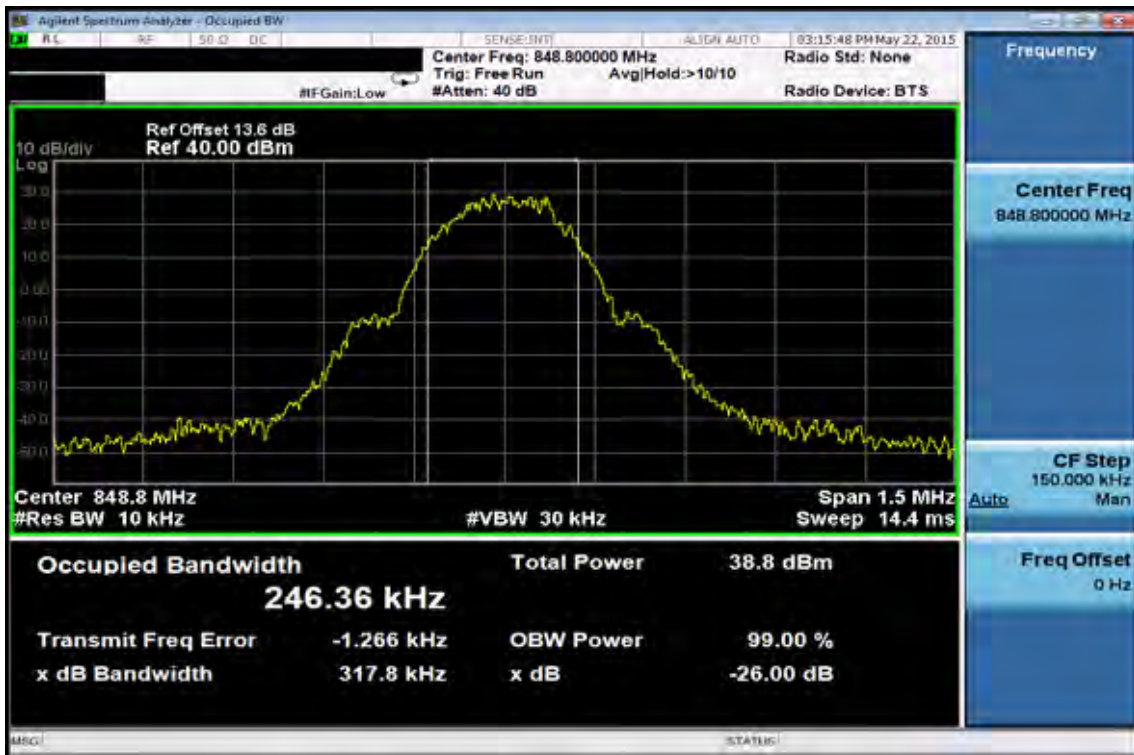
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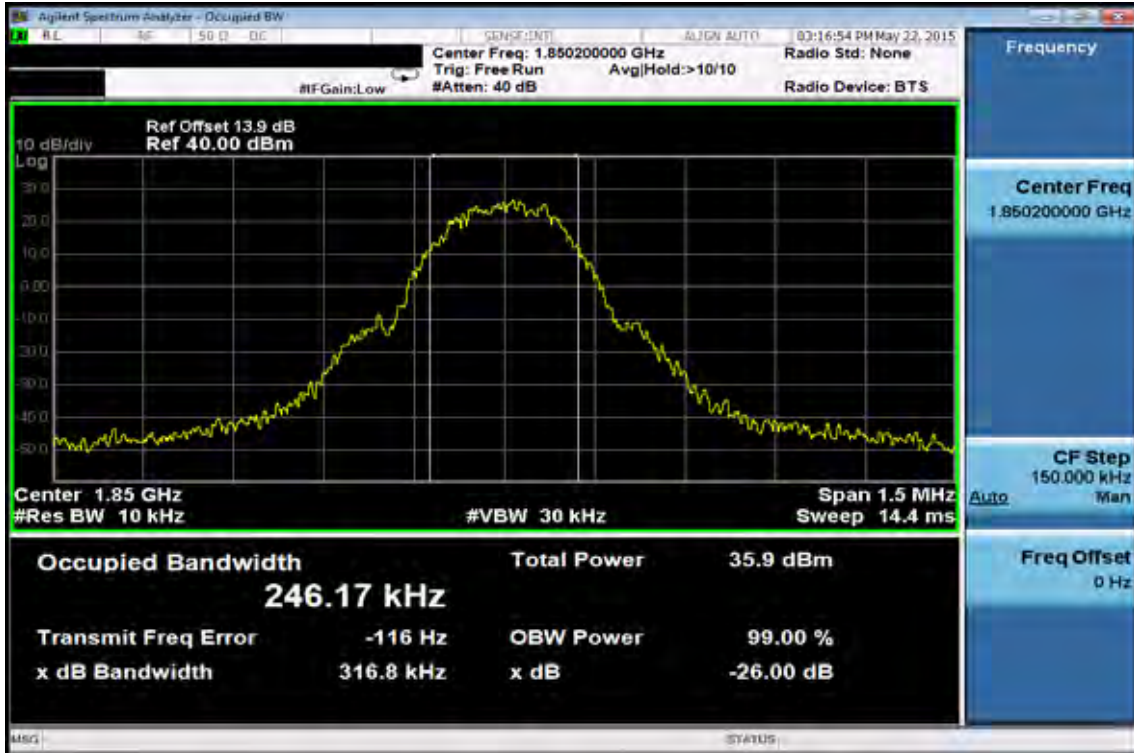
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### GSM 850 Channel High



### GSM 1900 Channel Low



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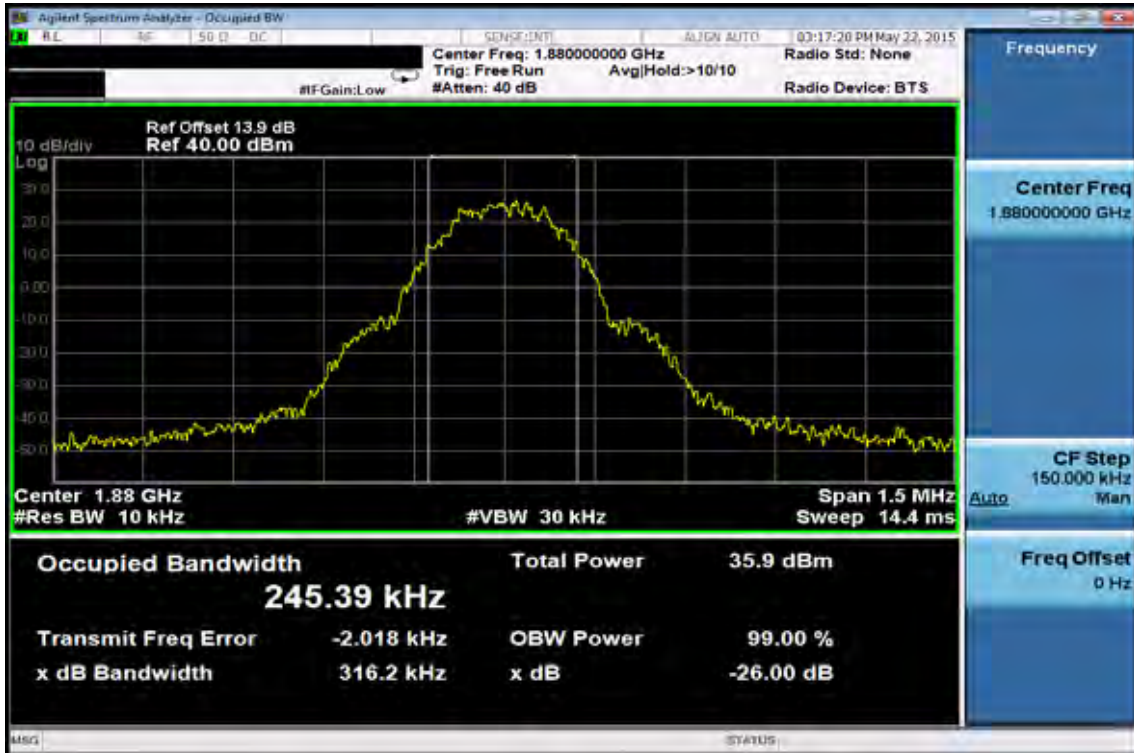
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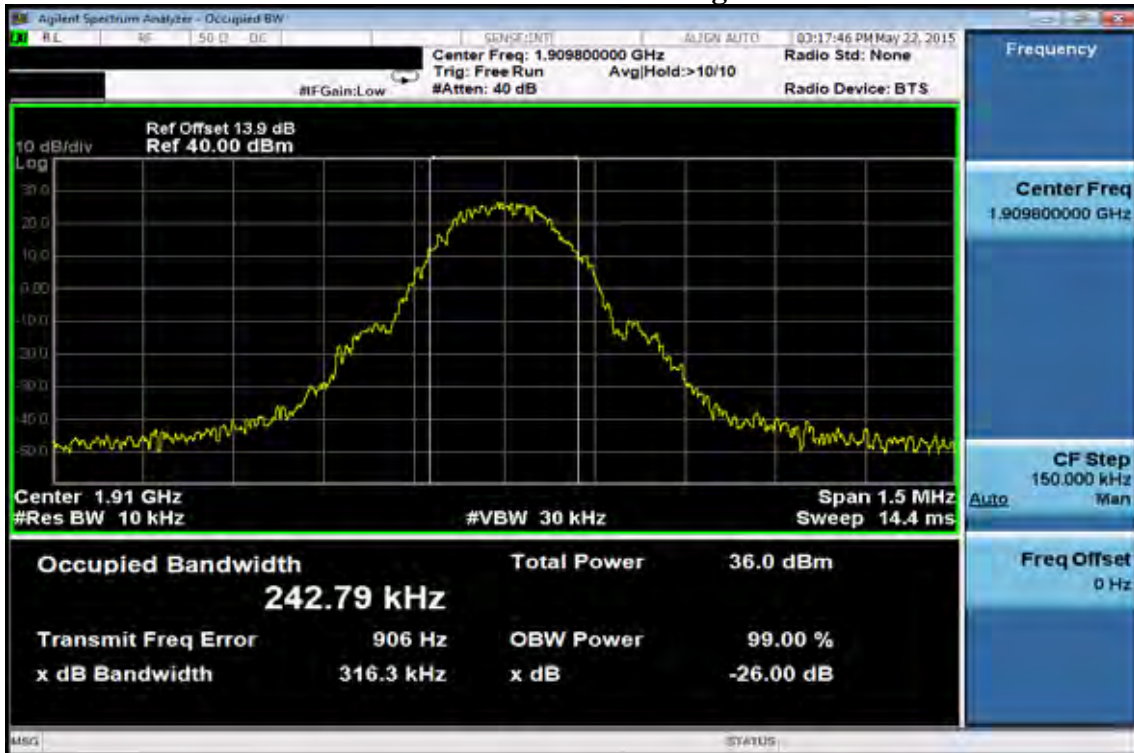
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### GSM 1900 Channel Mid



### GSM 1900 Channel High



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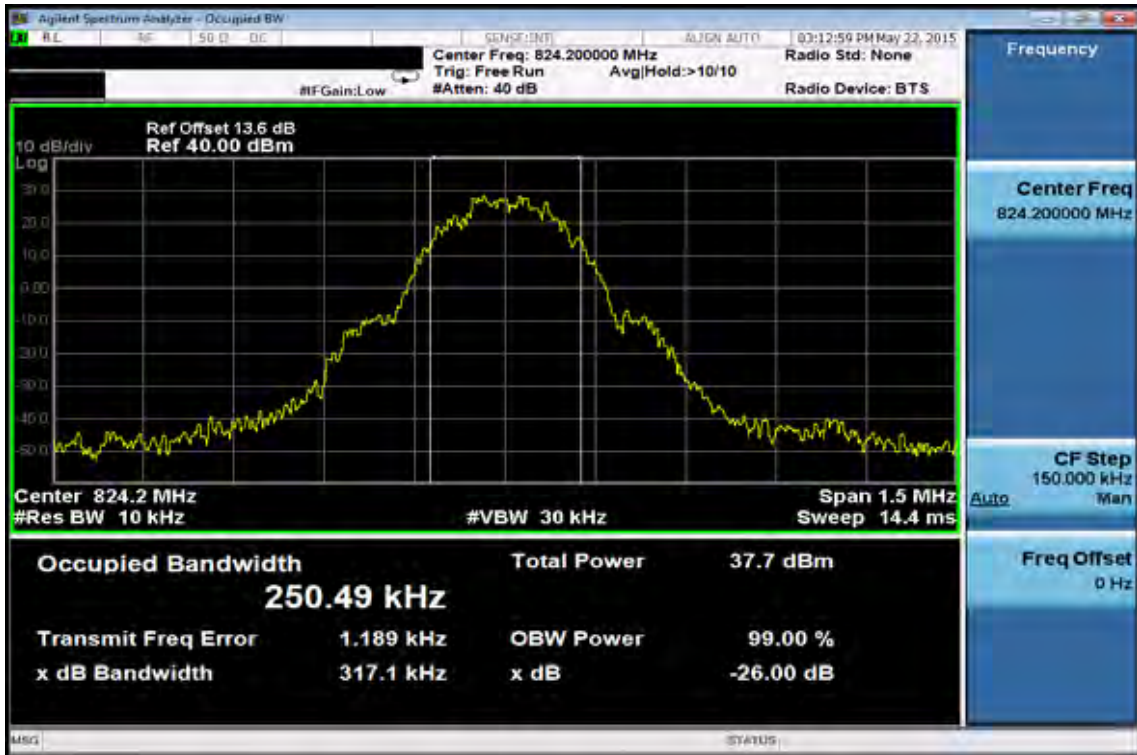
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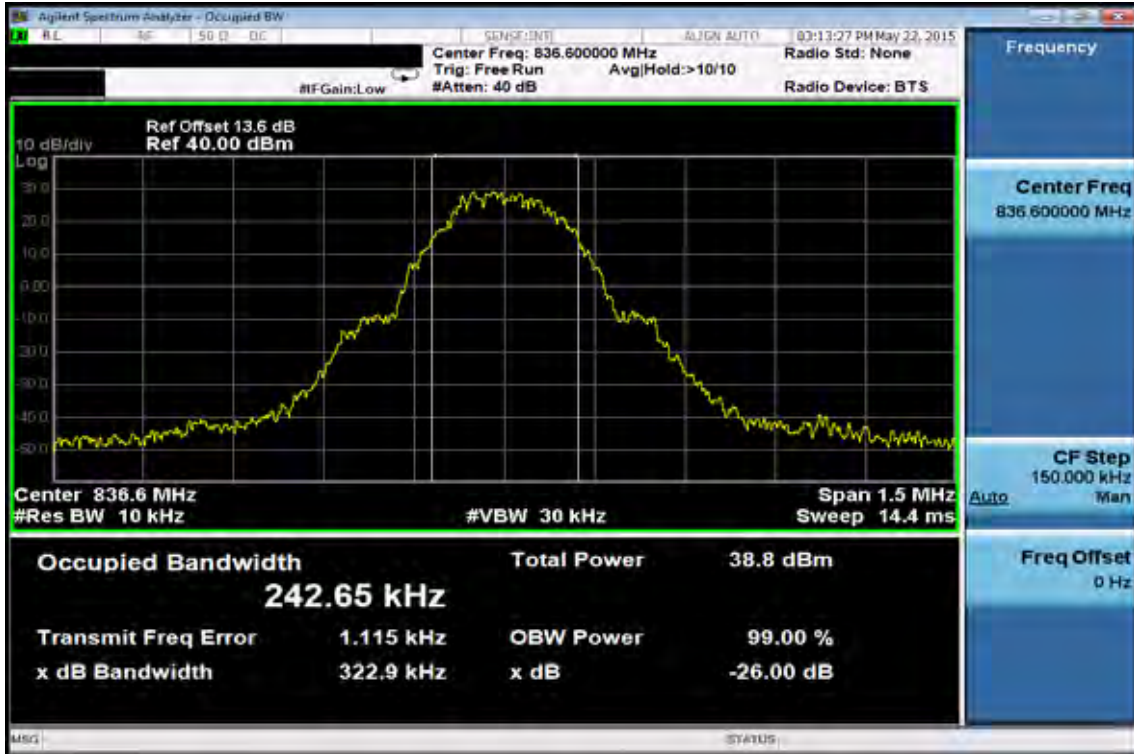
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GPRS 850 Channel Low



GPRS 850 Channel Mid



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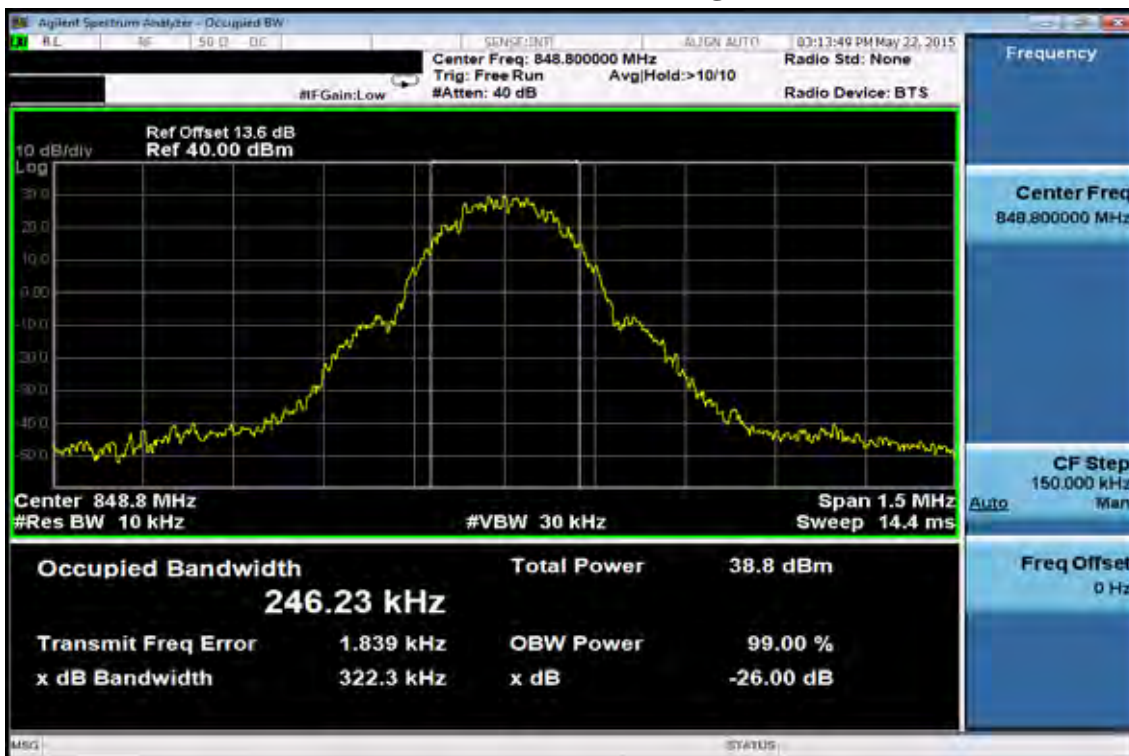
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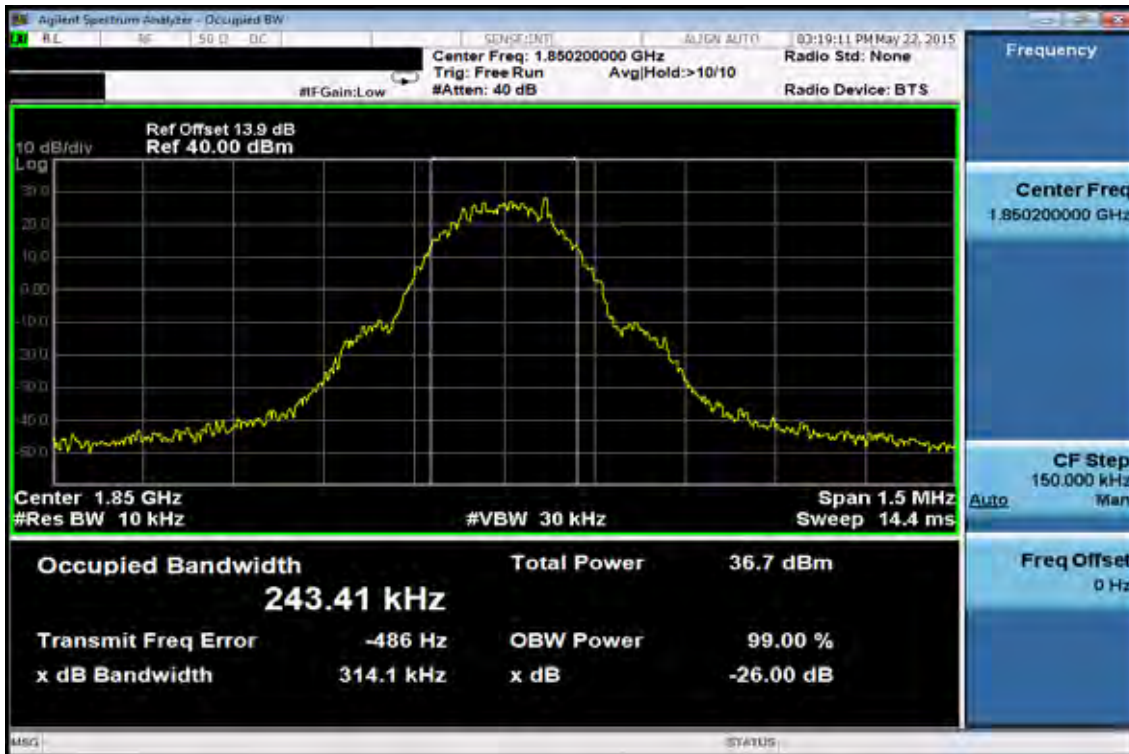
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### GPRS 850 Channel High



### GPRS 1900 Channel Low



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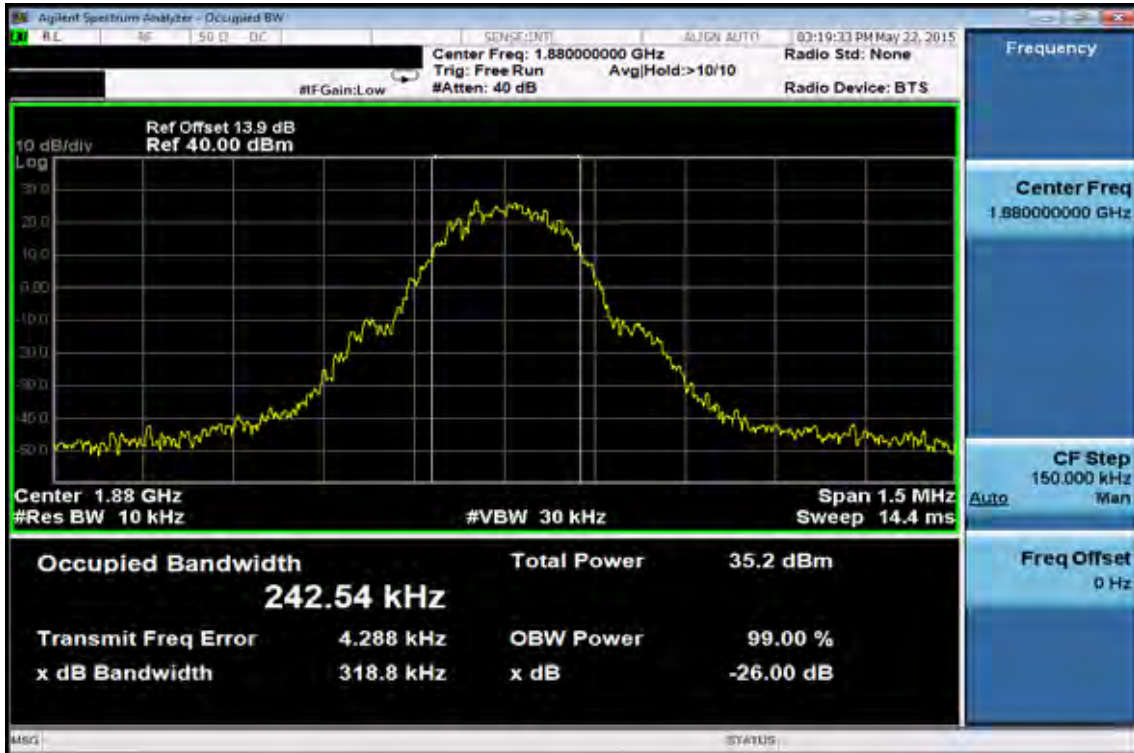
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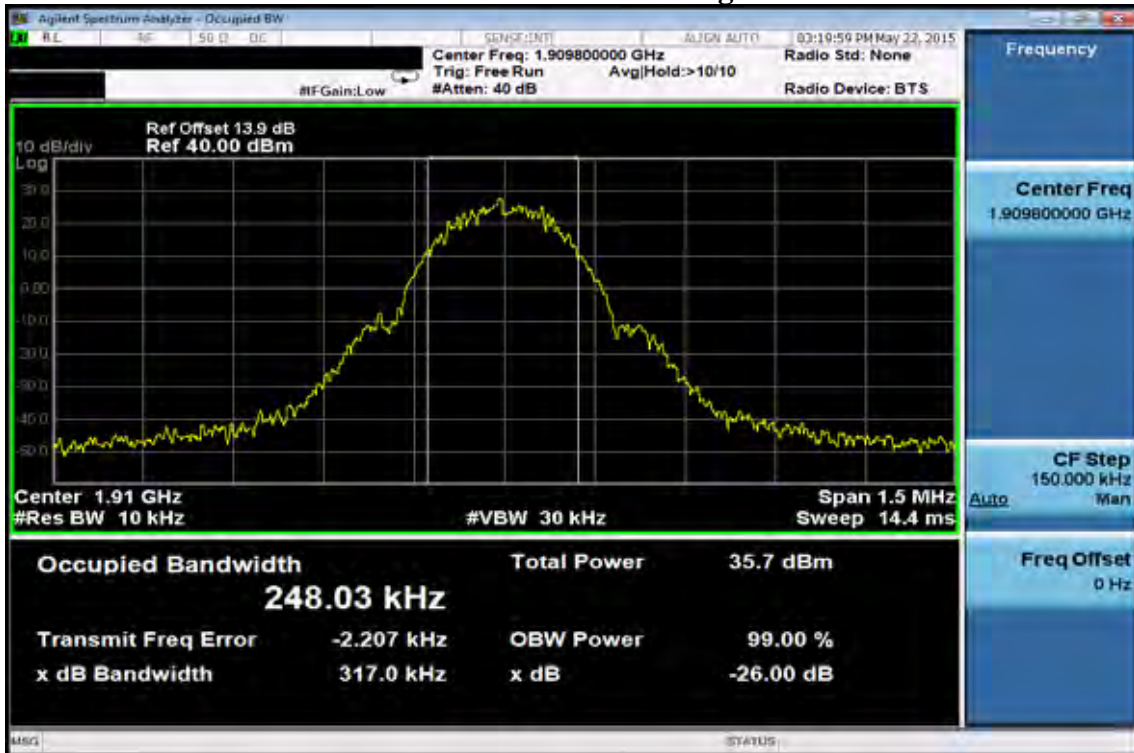
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**GPRS 1900 Channel Mid**



**GPRS 1900 Channel High**



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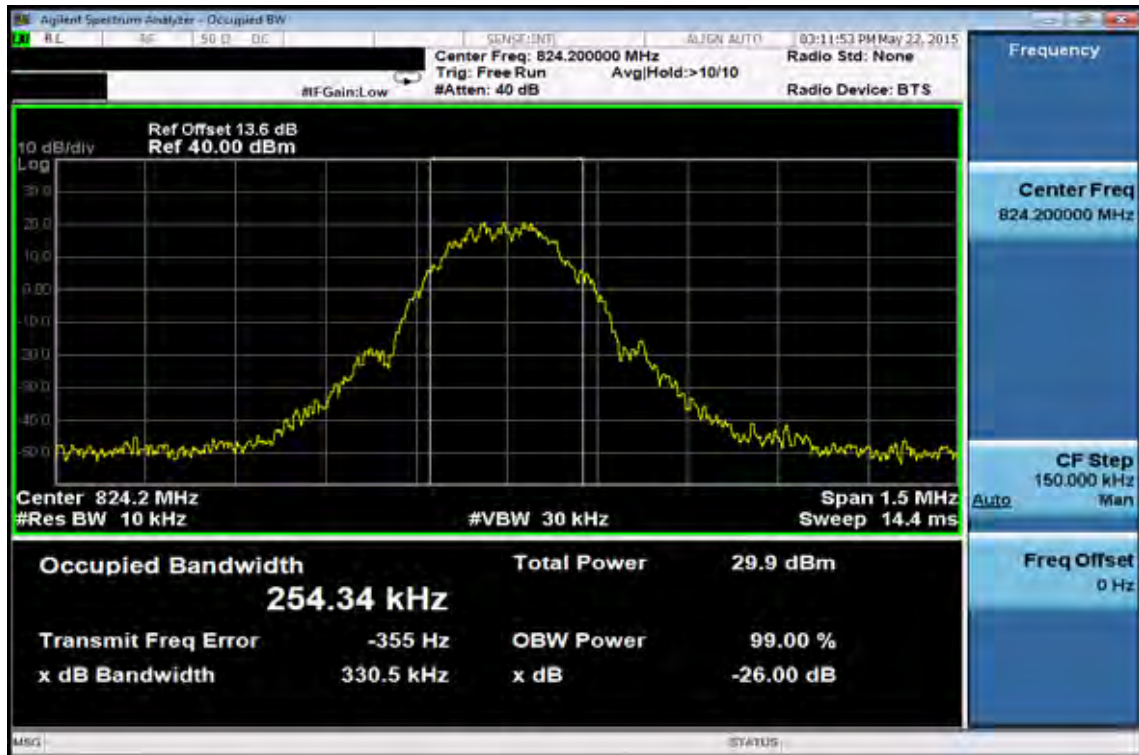
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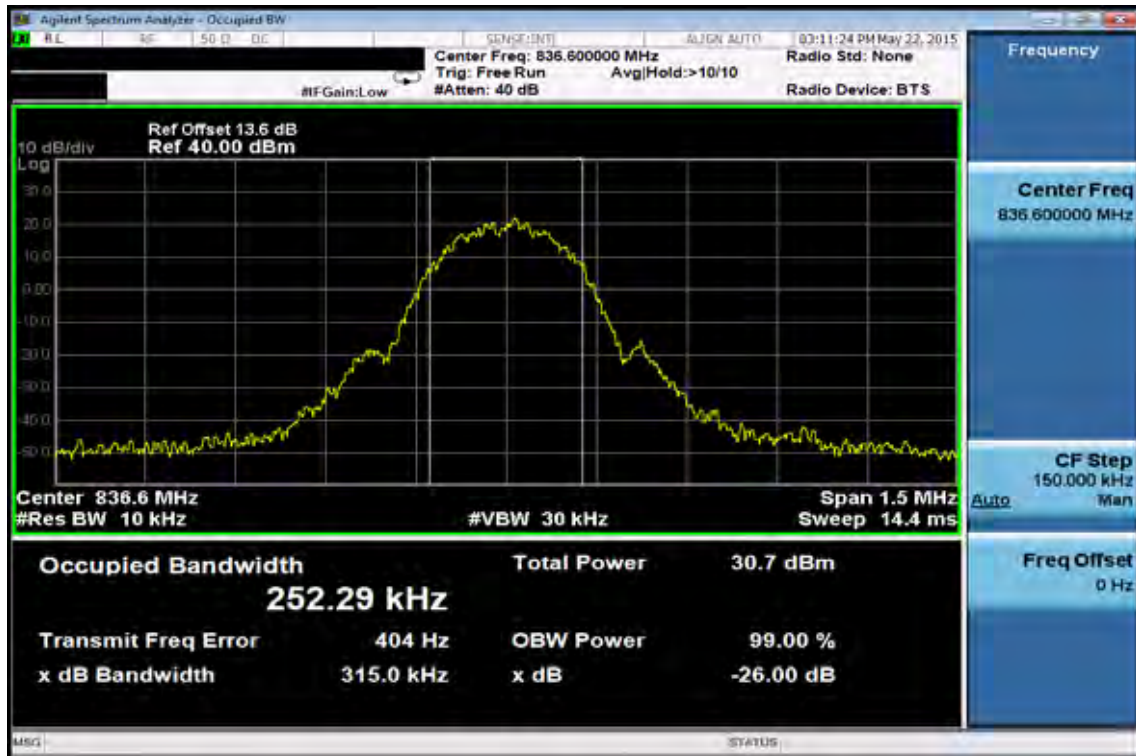
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**EDGE 850 Channel Low**



**EDGE 850 Channel Mid**



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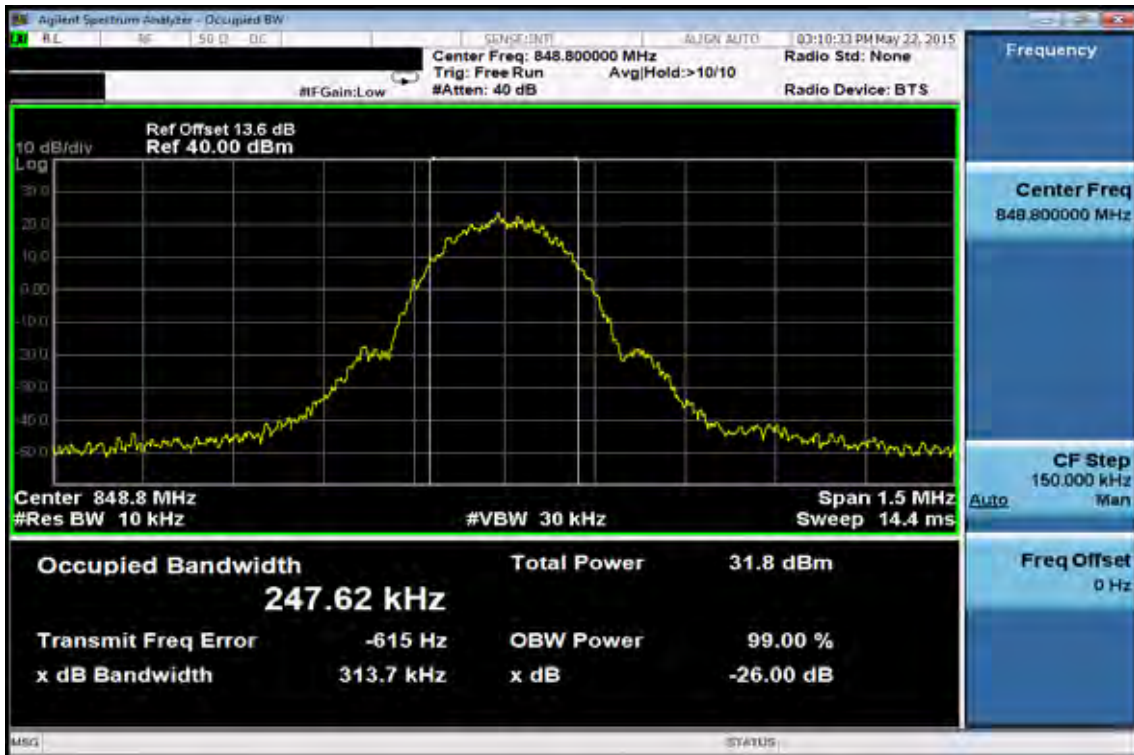
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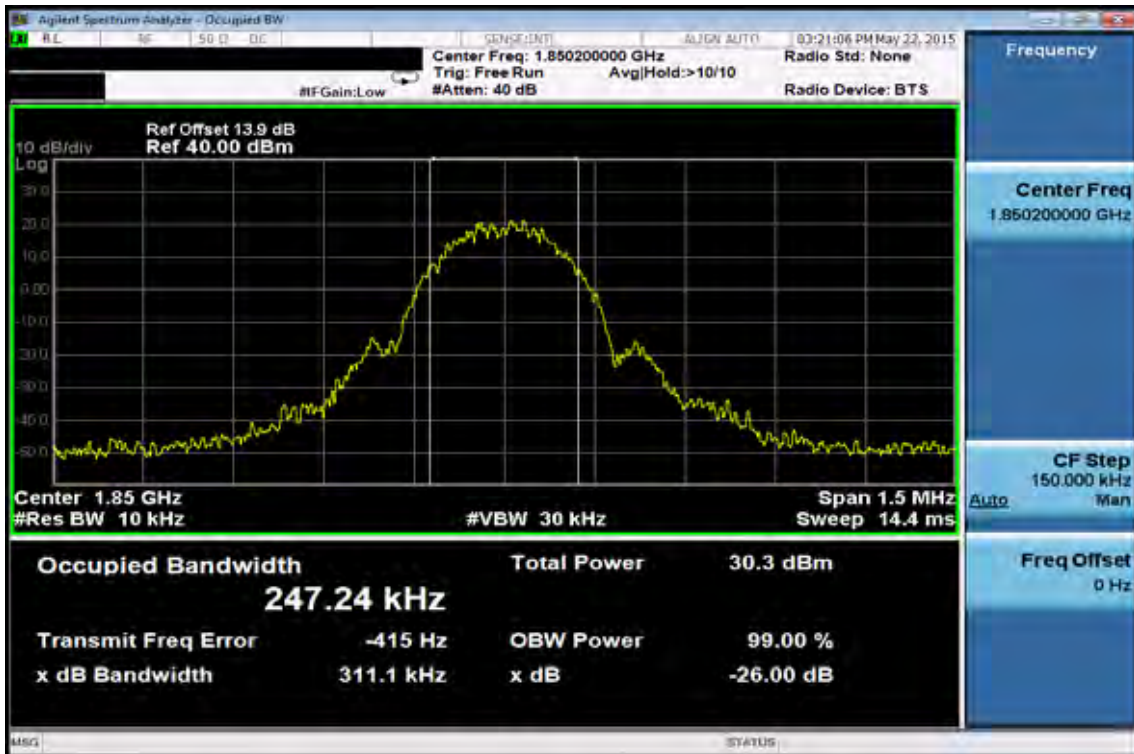
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### EDGE 850 Channel High



### EDGE 1900 Channel Low



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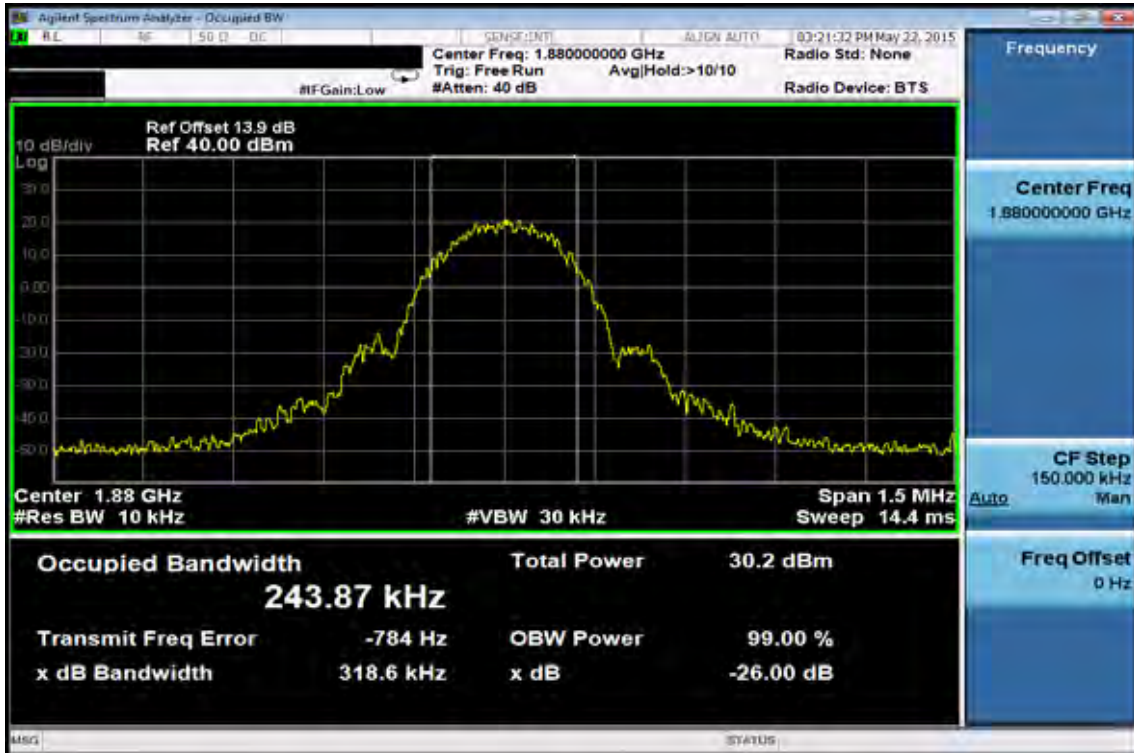
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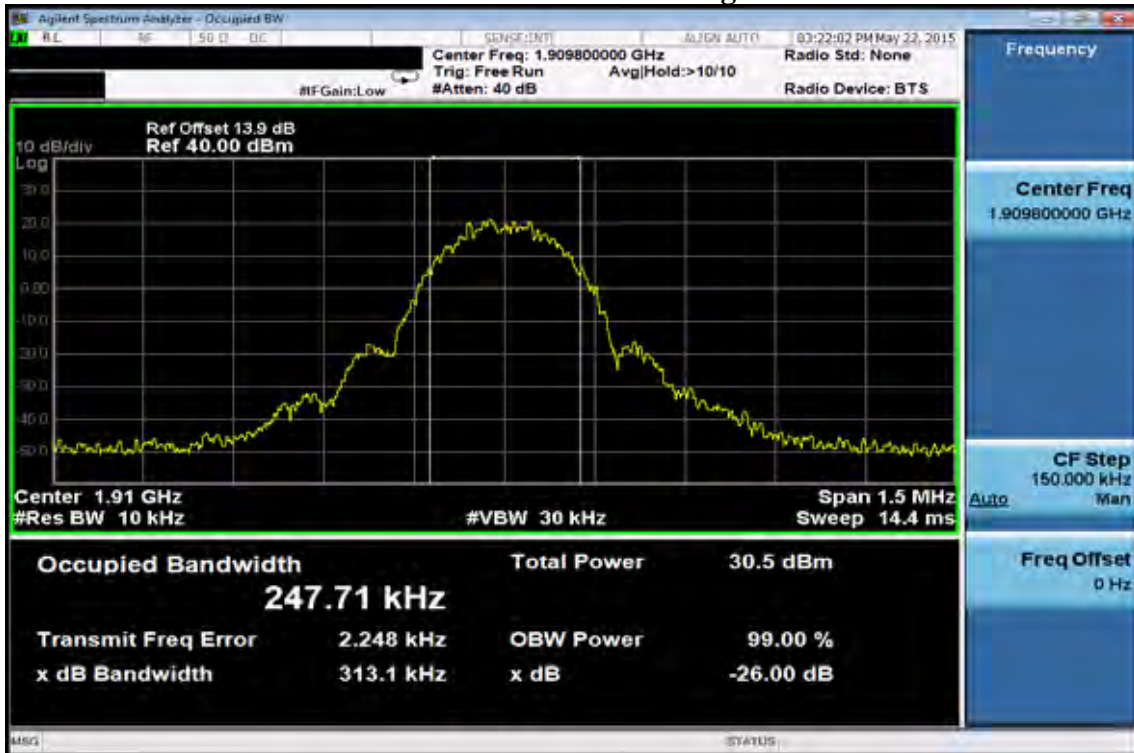
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**EDGE 1900 Channel Mid**



**EDGE 1900 Channel High**



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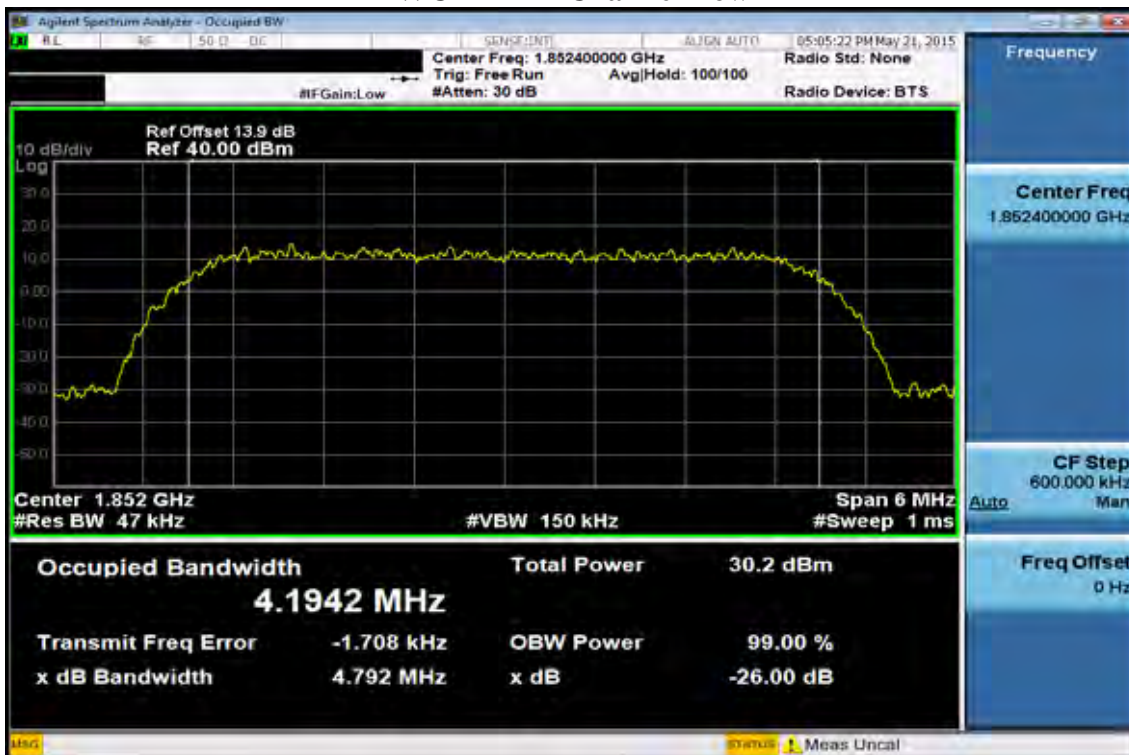
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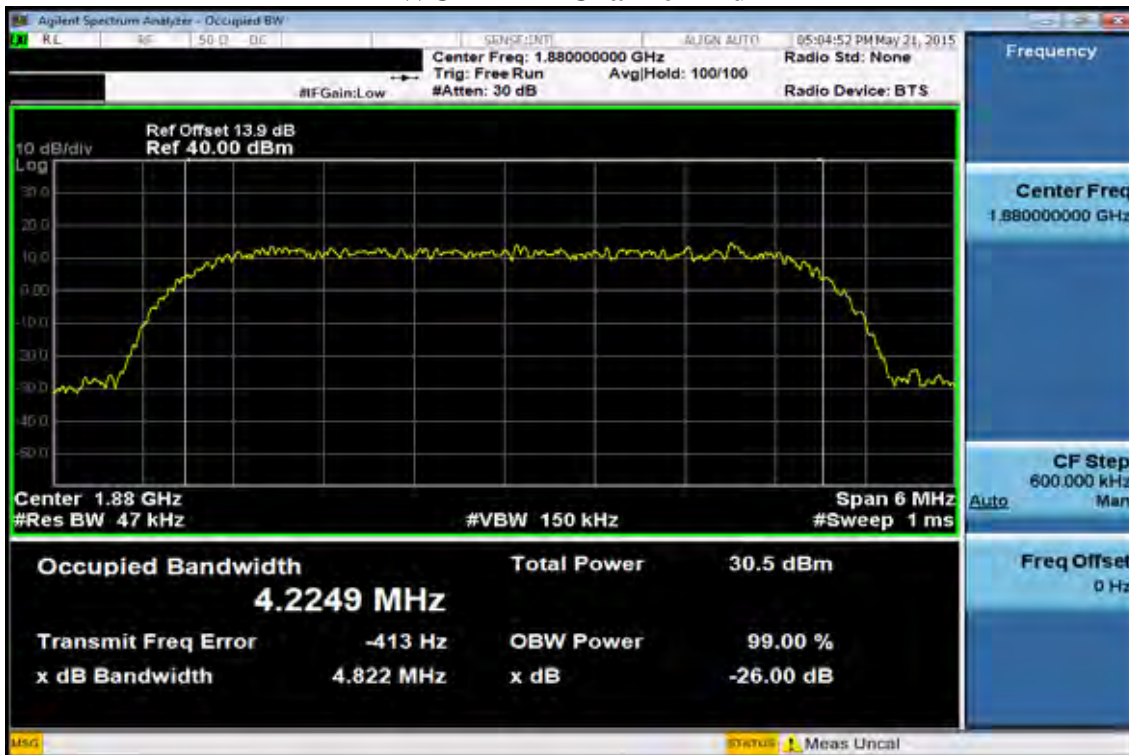
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### WCDMA II Channel Low



### WCDMA II Channel Mid



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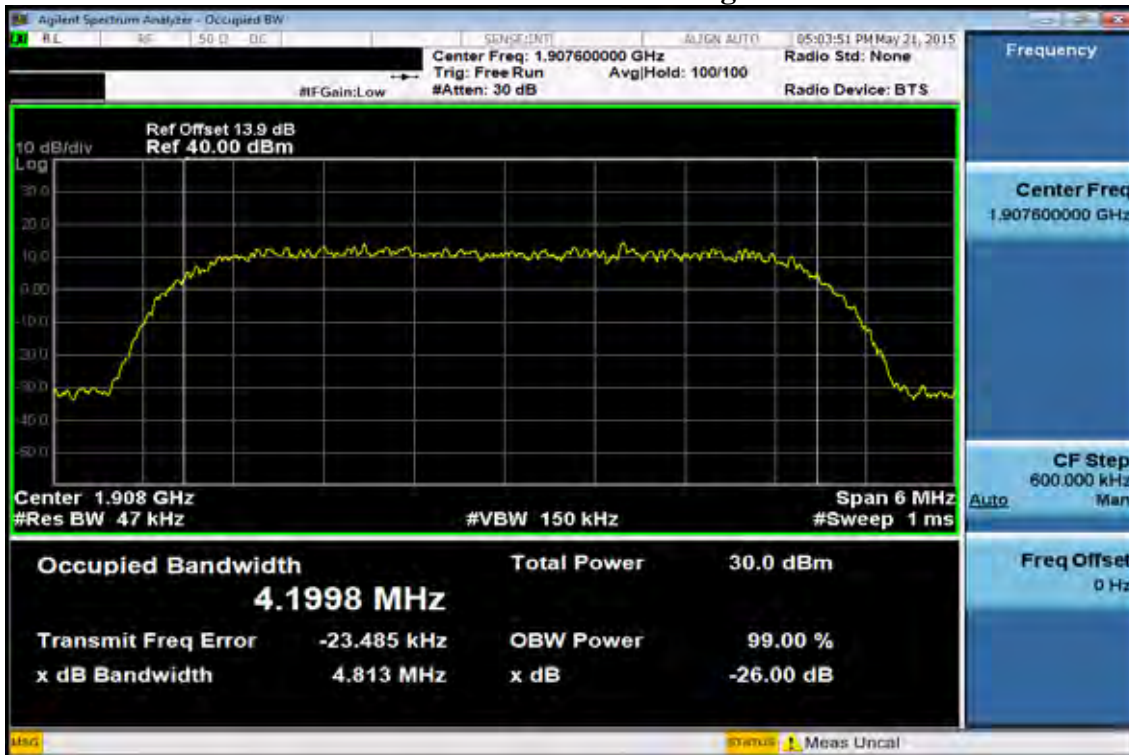
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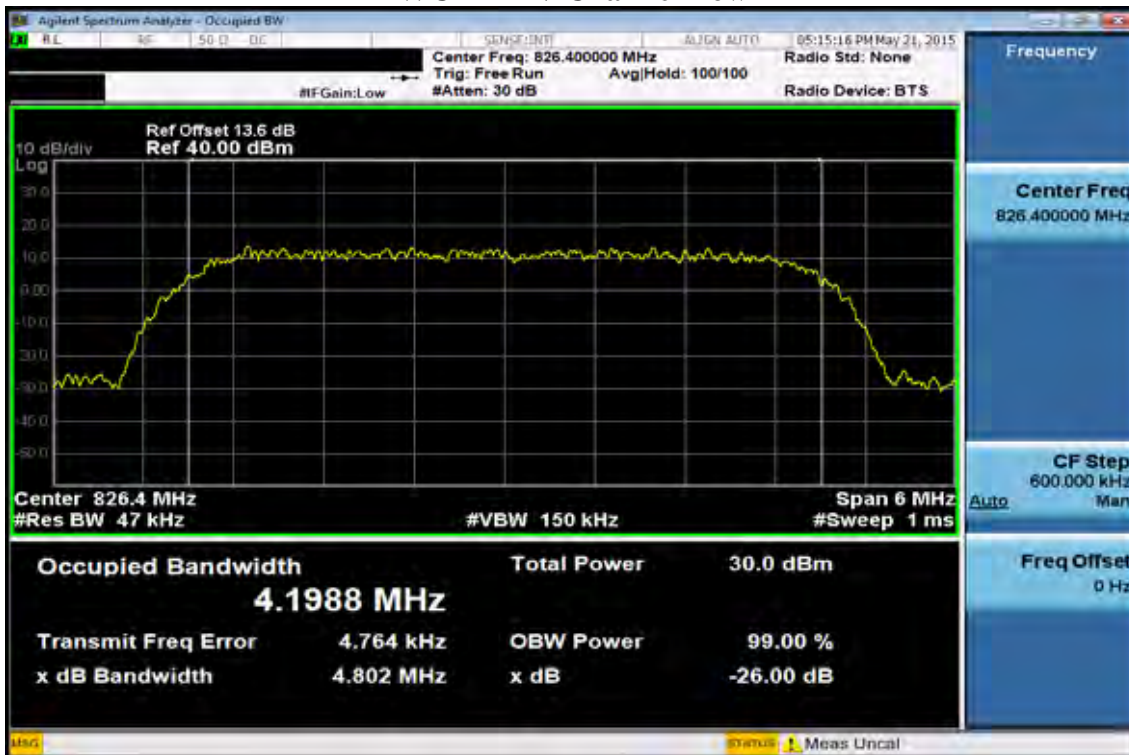
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### WCDMA II Channel High



### WCDMA V Channel Low



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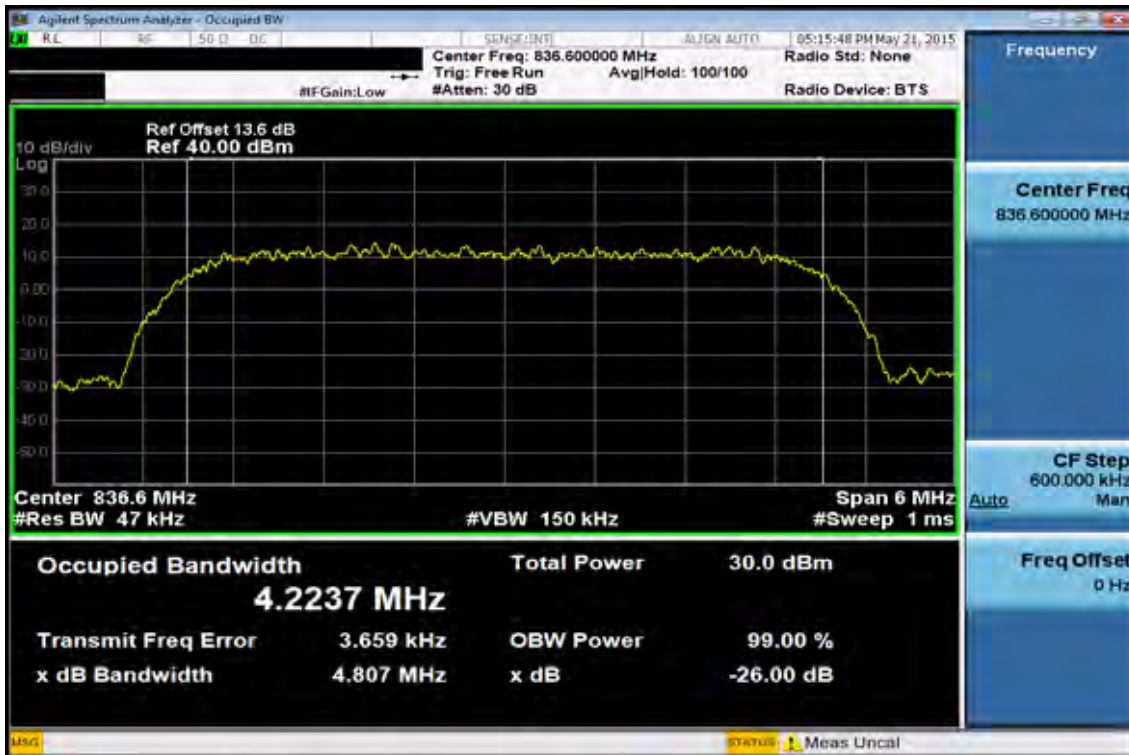
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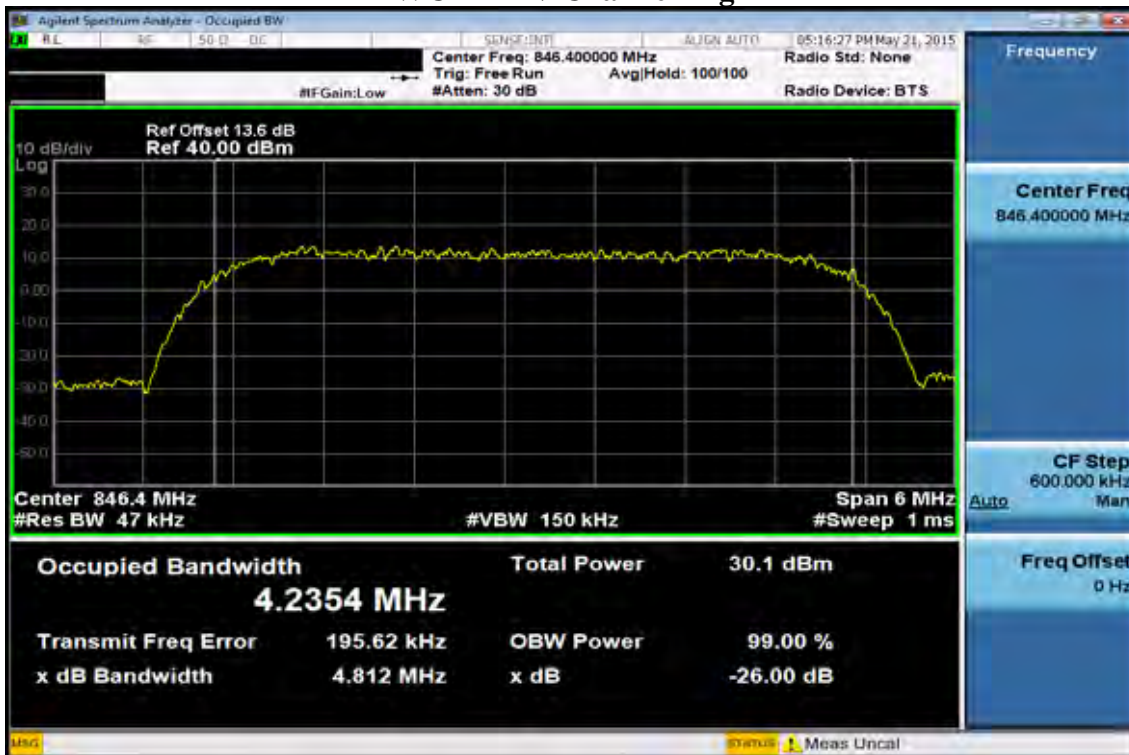
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### WCDMA V Channel Mid



### WCDMA V Channel High



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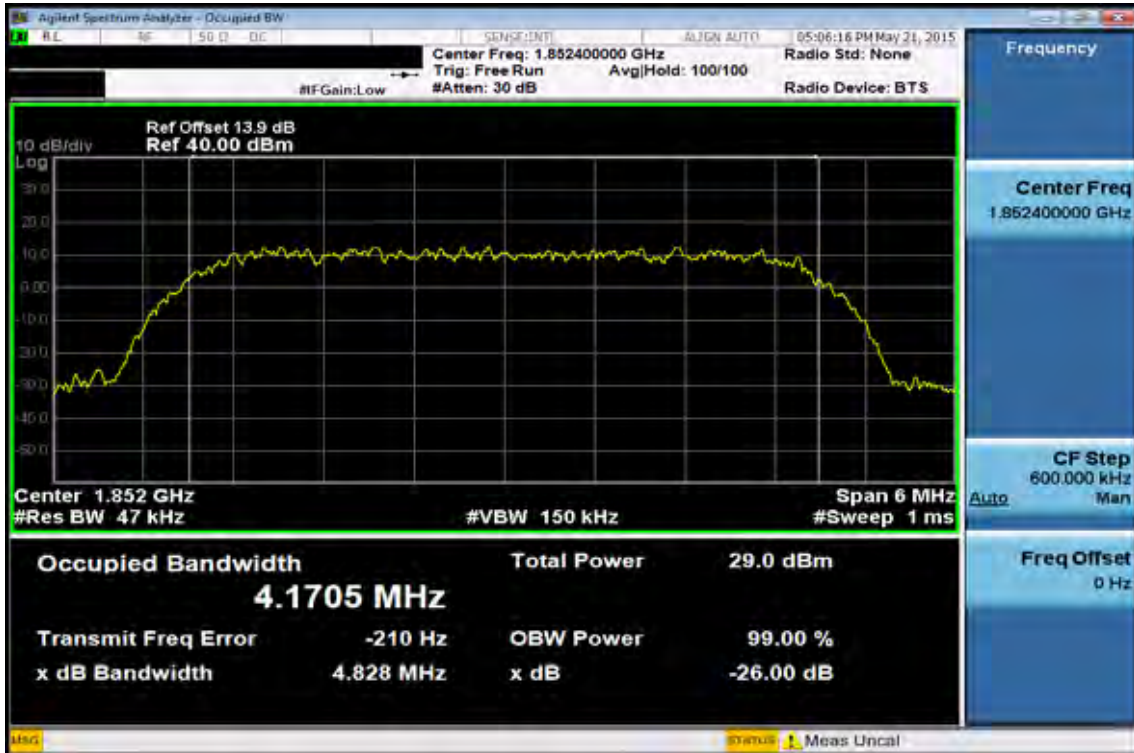
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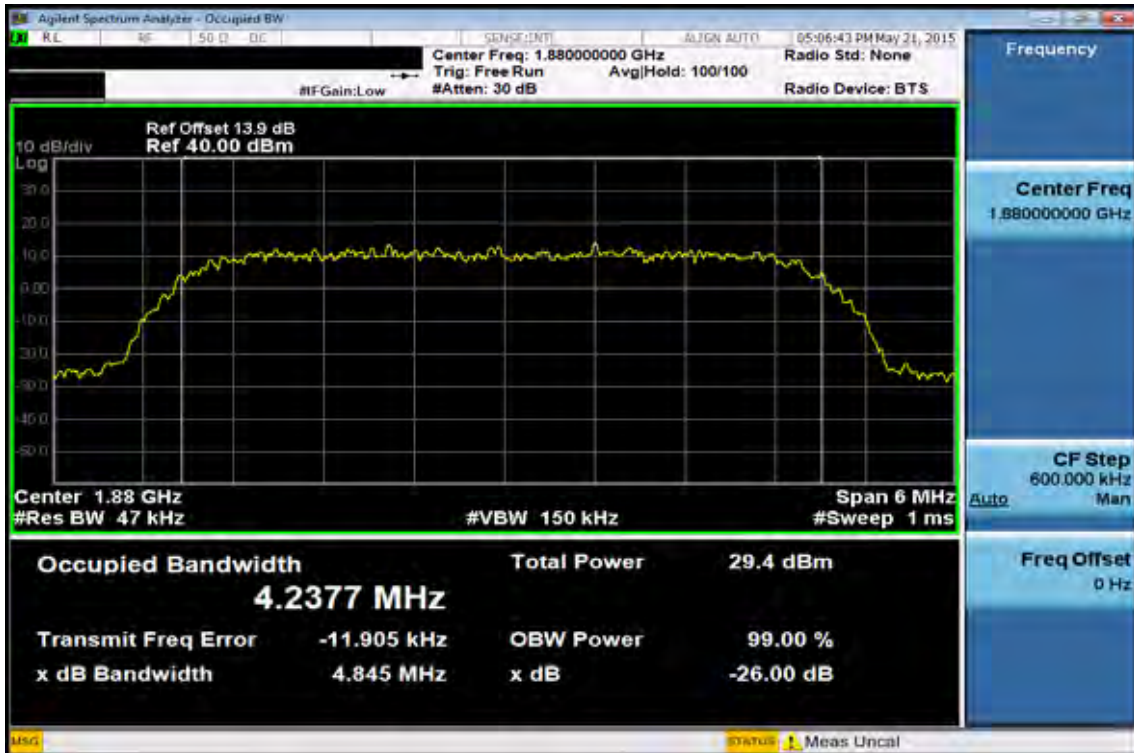
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### HSDPA II Channel Low



### HSDPA II Channel Mid



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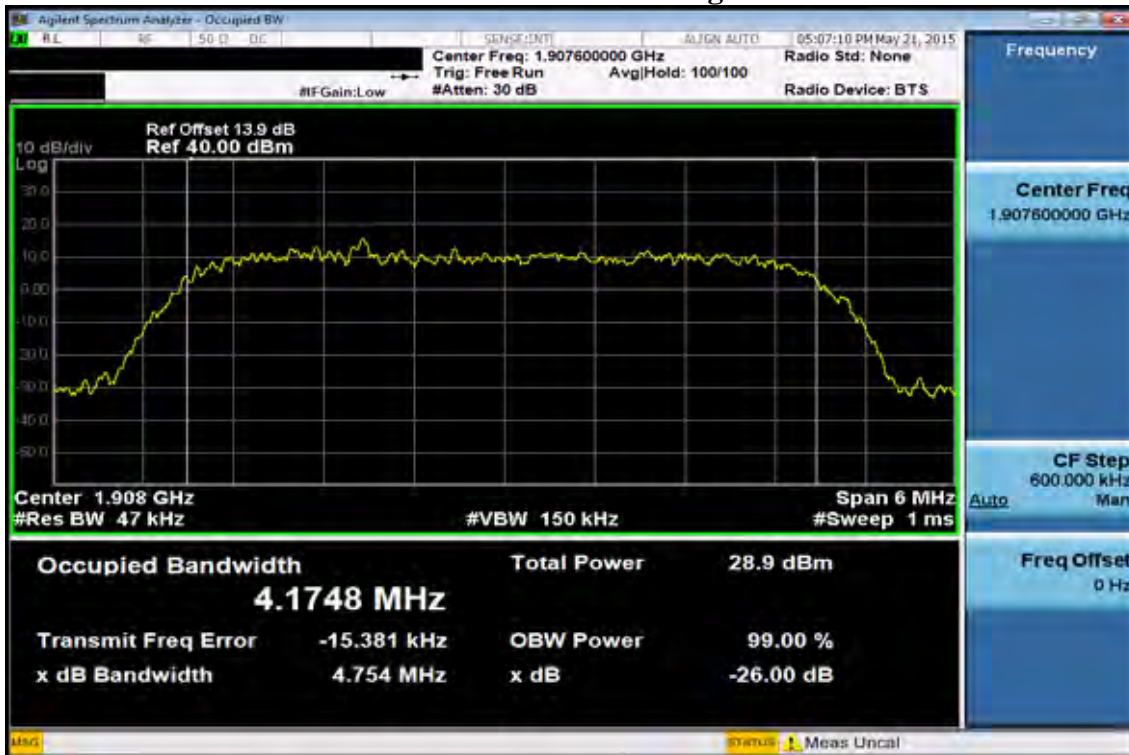
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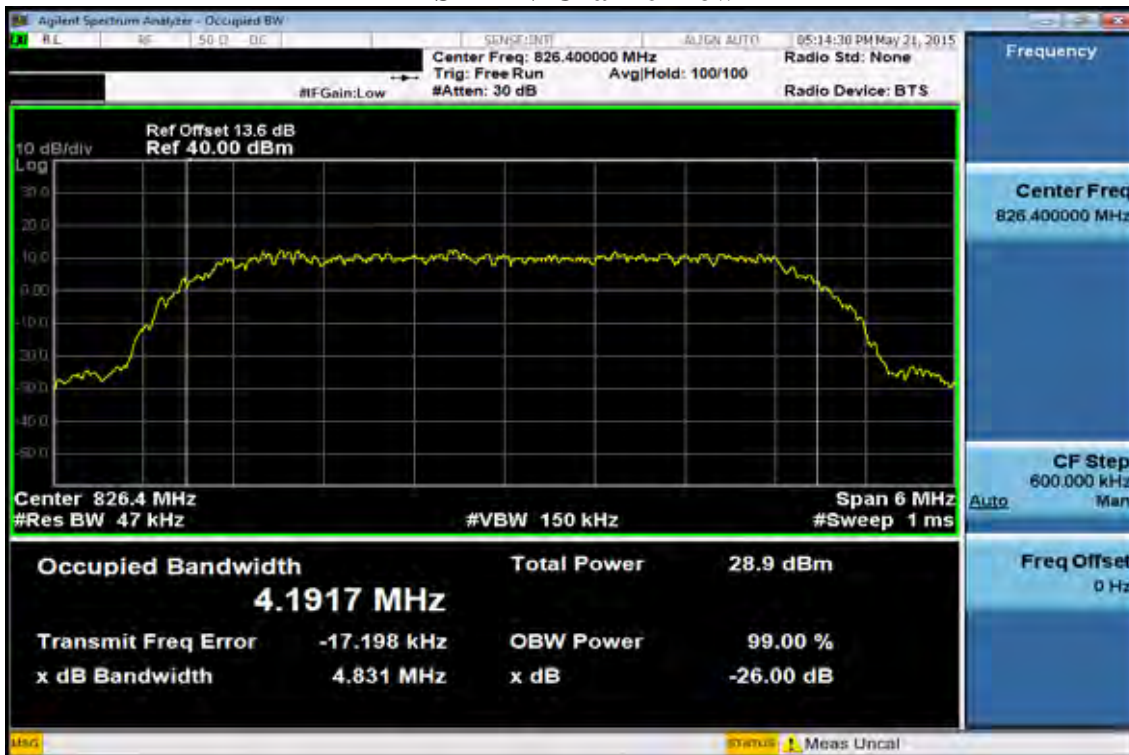
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### HSDPA II Channel High



### HSDPA V Channel Low



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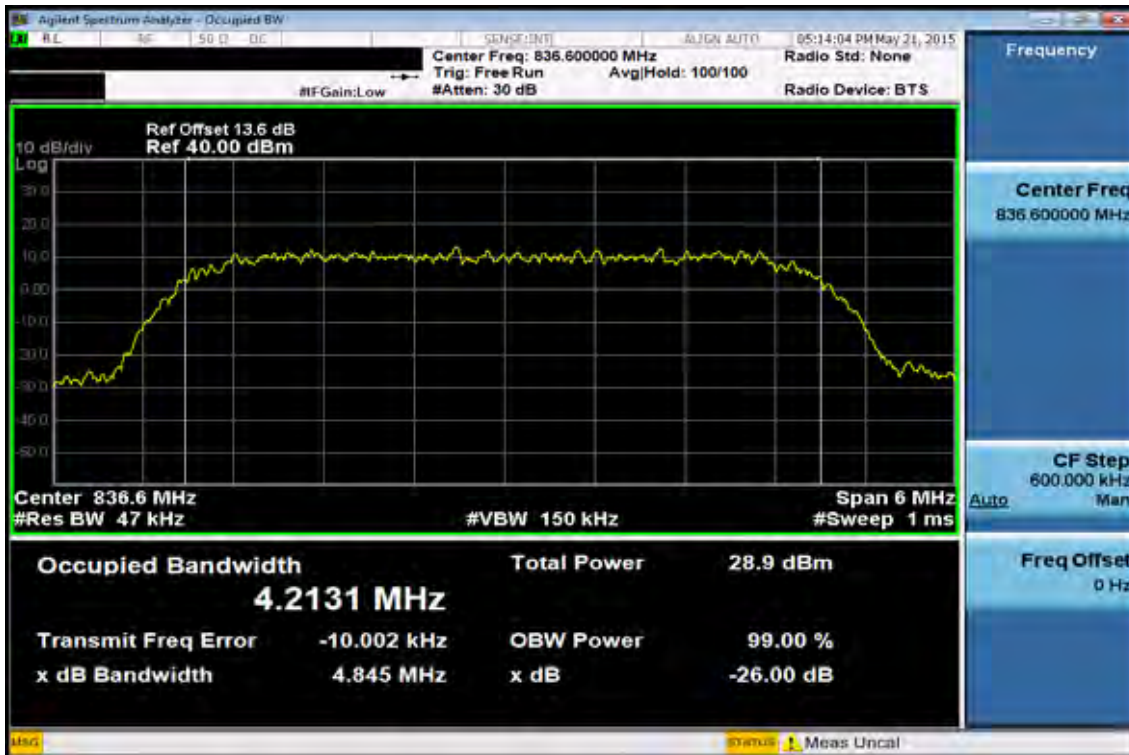
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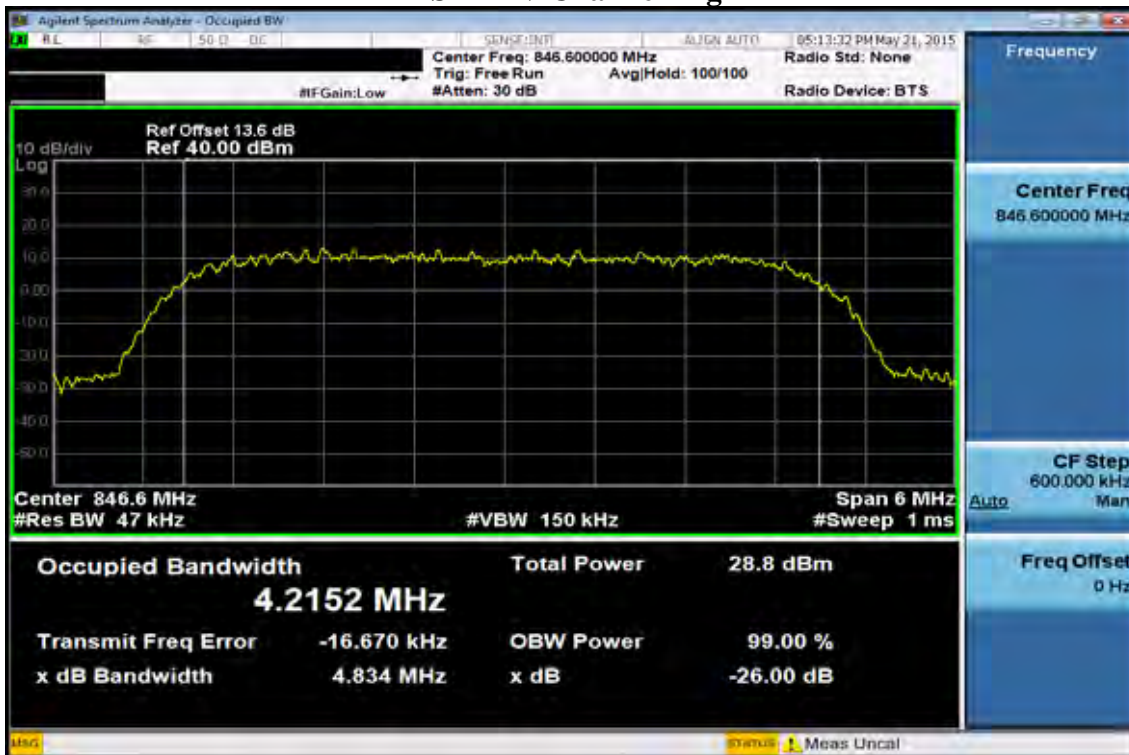
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### HSDPA V Channel Mid



### HSDPA V Channel High



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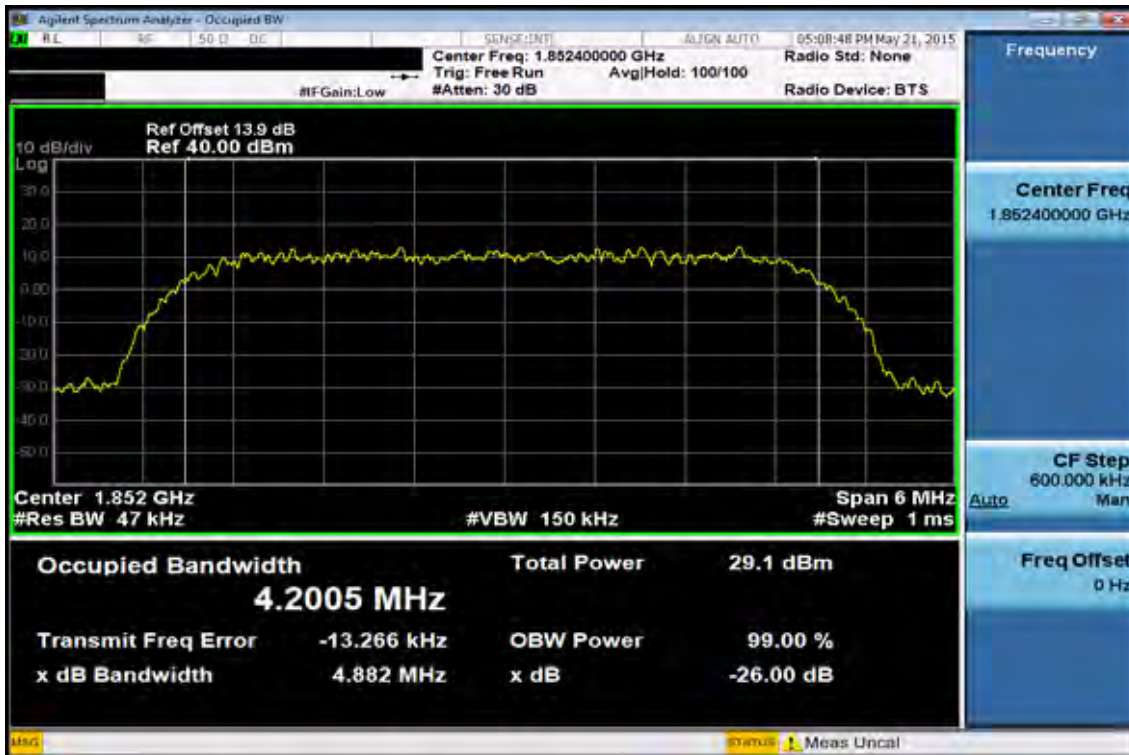
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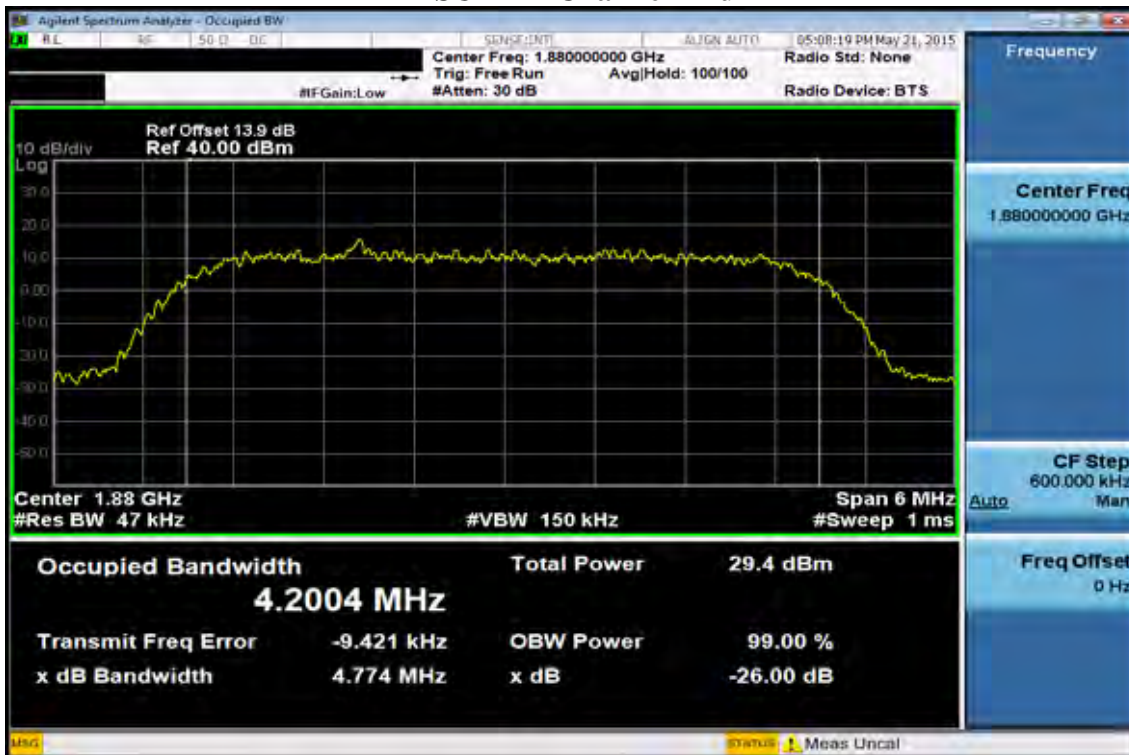
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### HSUPA II Channel Low



### HSUPA II Channel Mid



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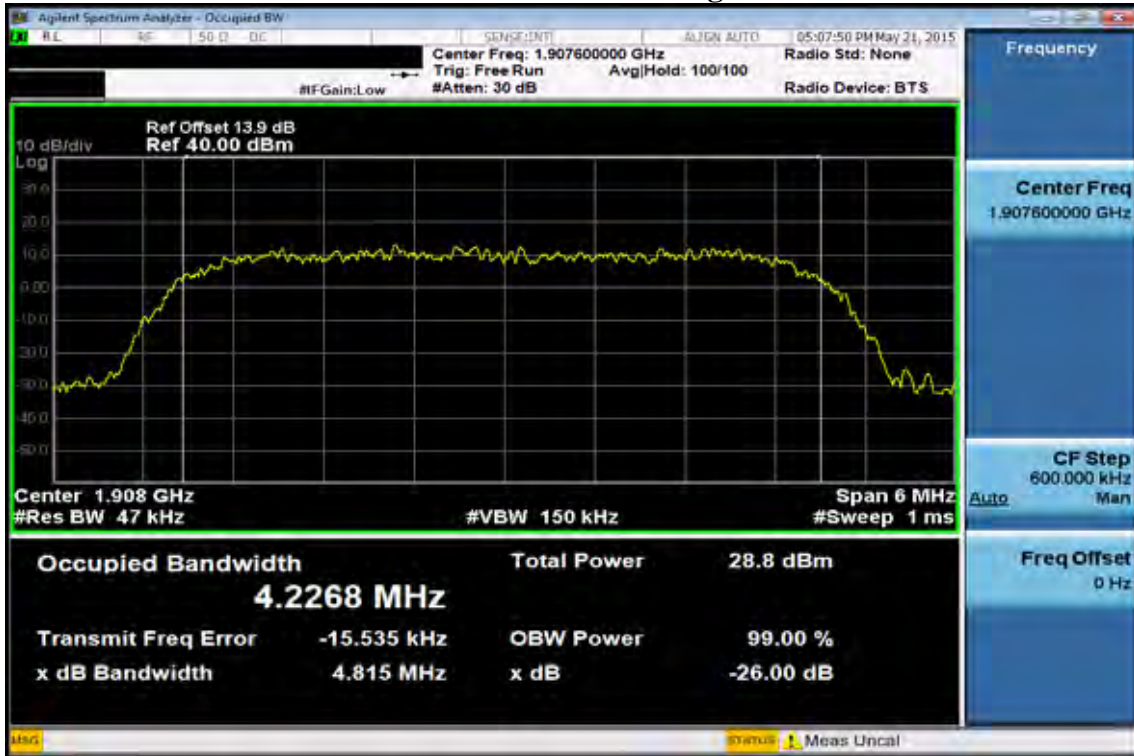
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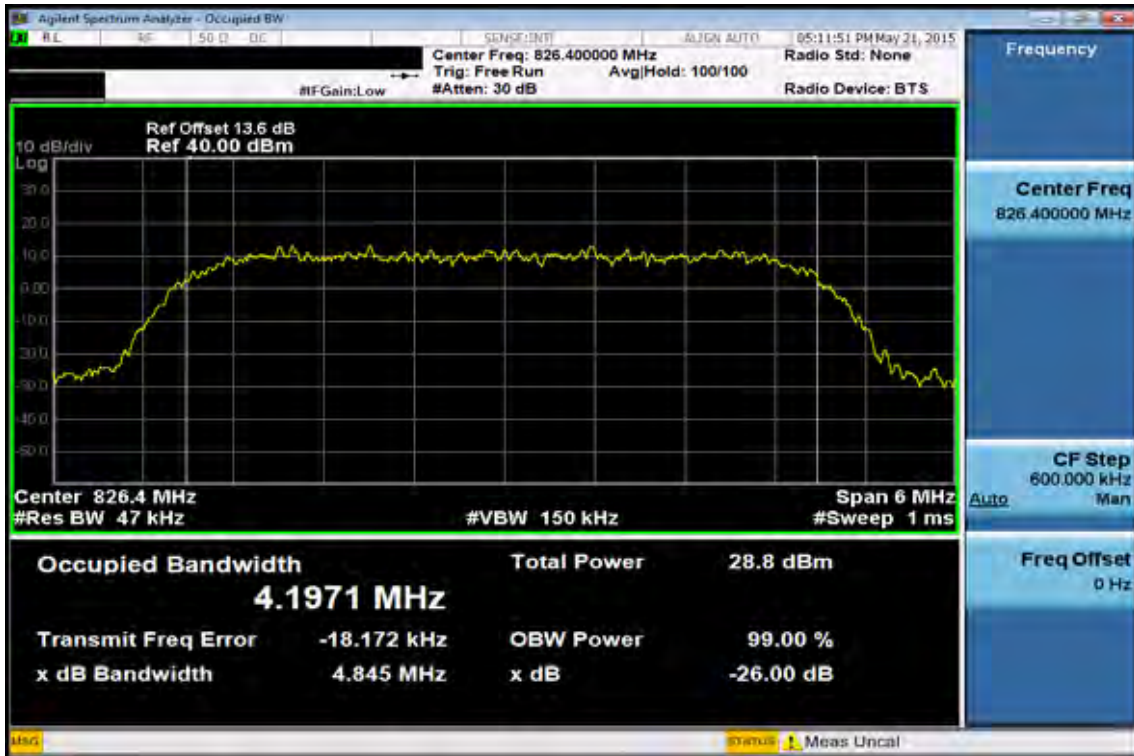
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### HSUPA II Channel High



### HSUPA V Channel Low



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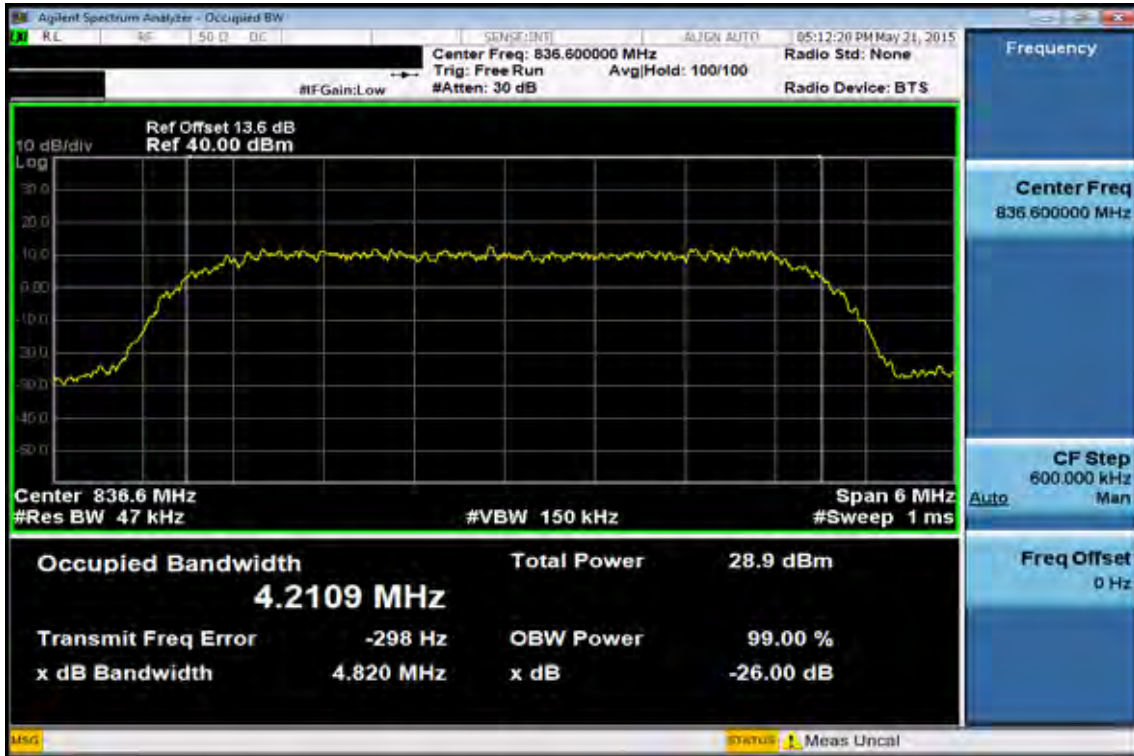
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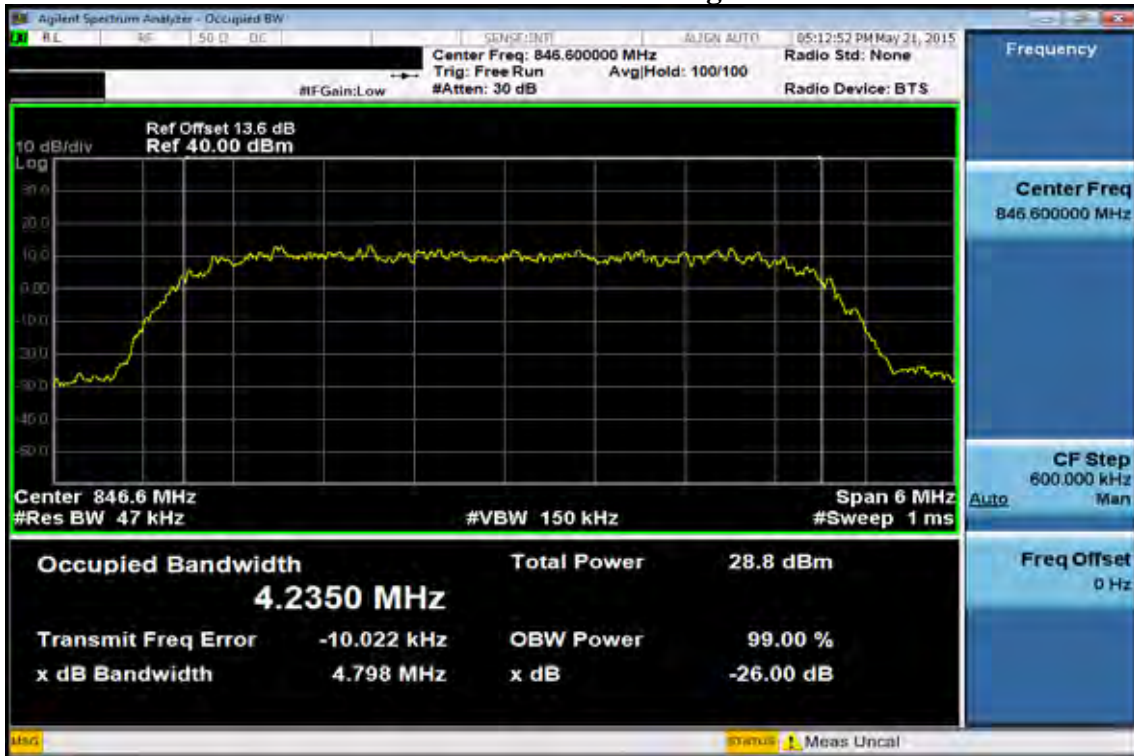
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HSUPA V Channel Mid



HSUPA V Channel High



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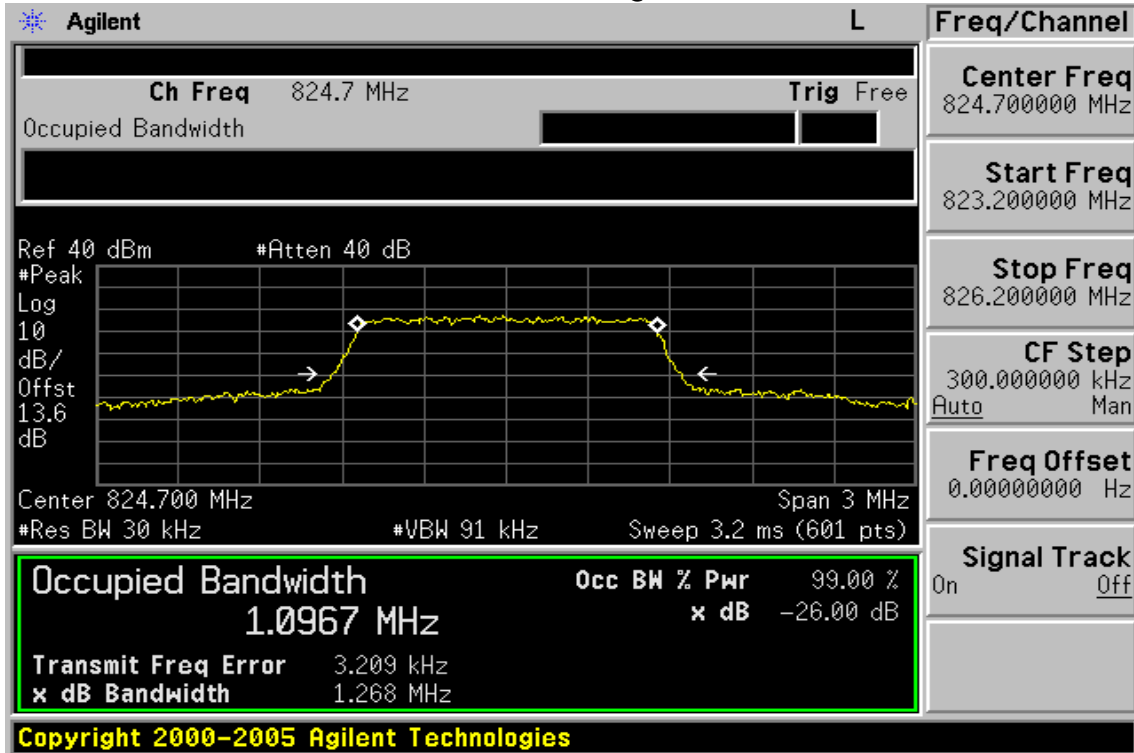
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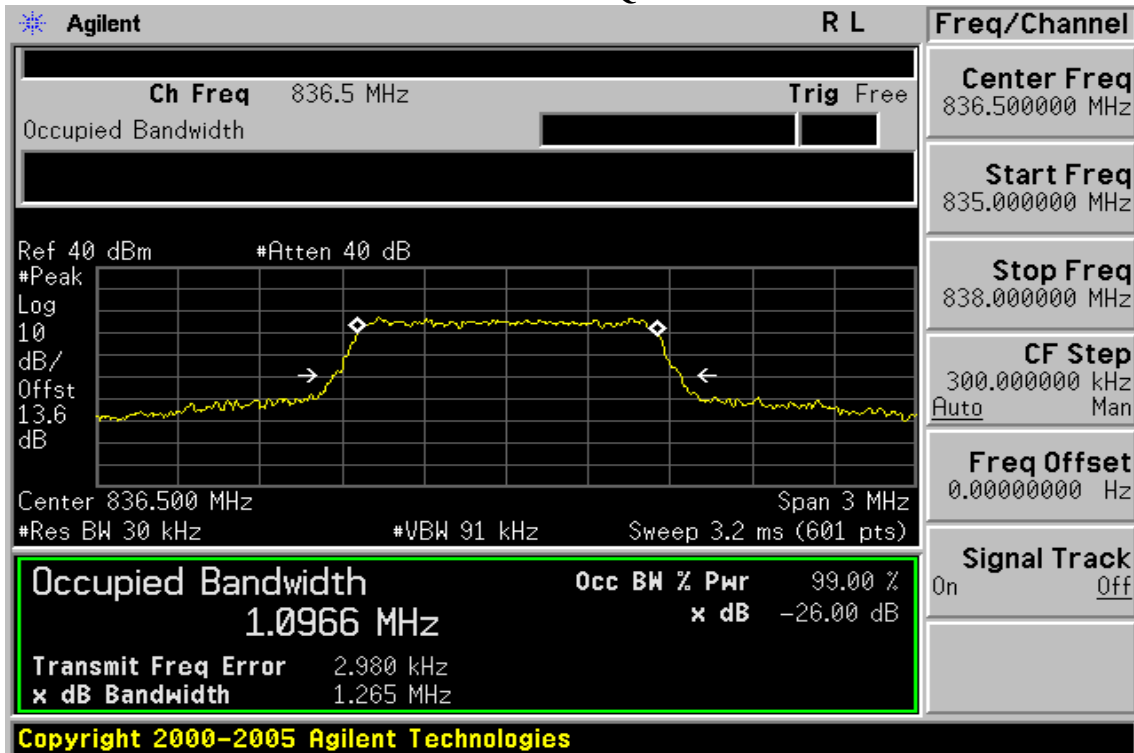
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1.4MHz BW LTE-Band 5 QPSK Channel Low



1.4MHz BW LTE-Band 5 QPSK Channel Mid



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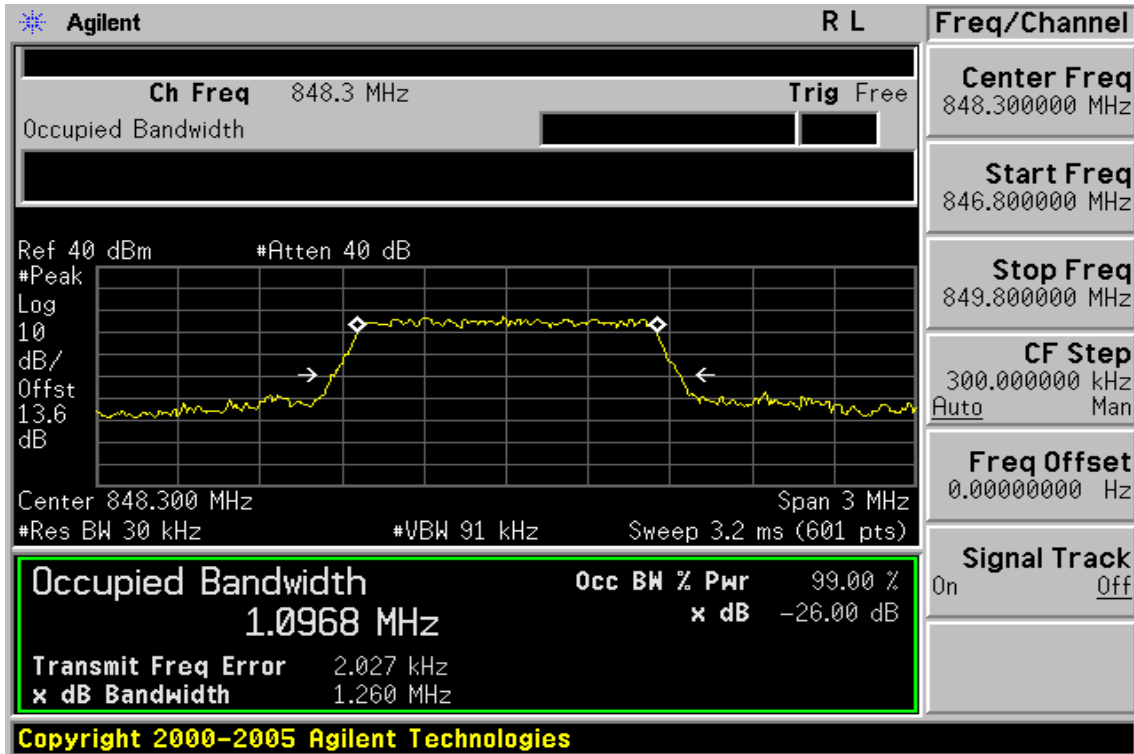
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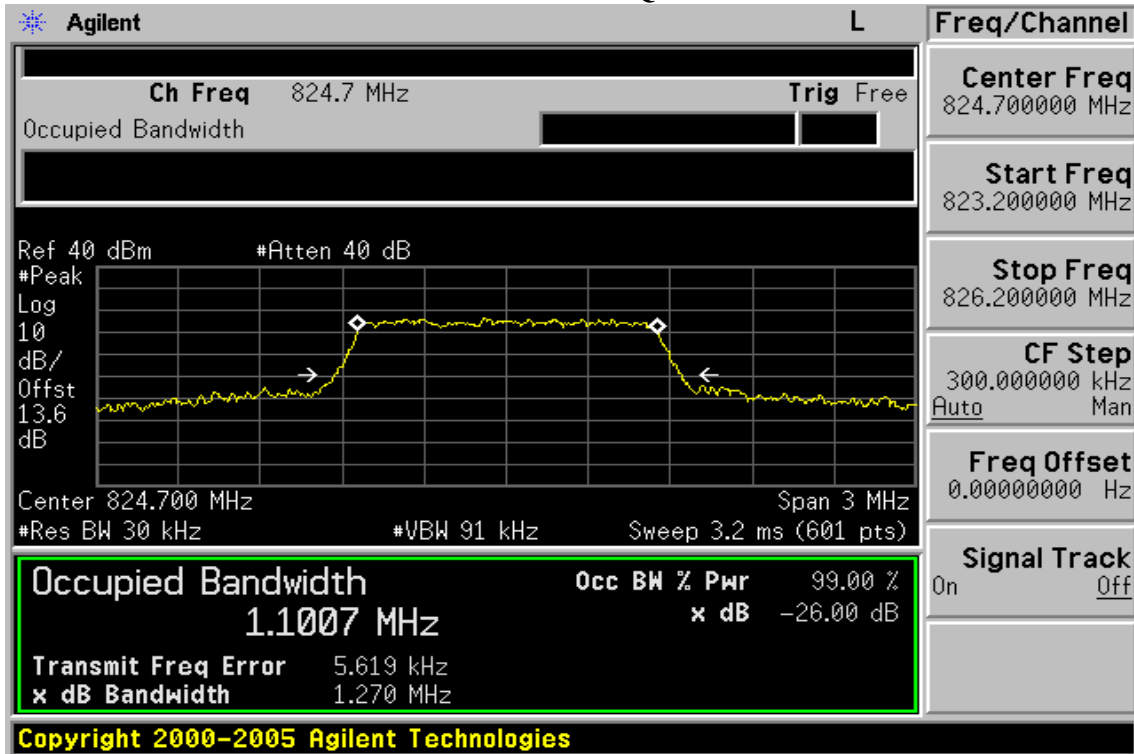
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### 1.4MHz BW LTE-Band 5 QPSK Channel High



### 1.4MHz BW LTE-Band 5 16QAM Channel Low



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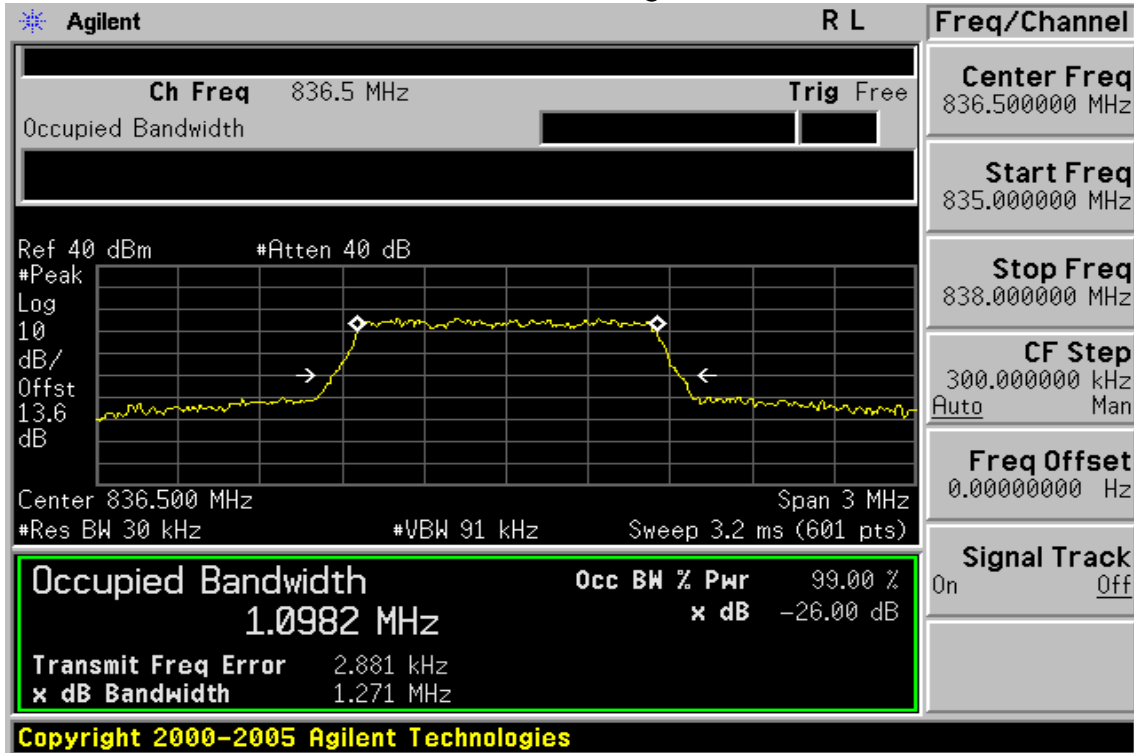
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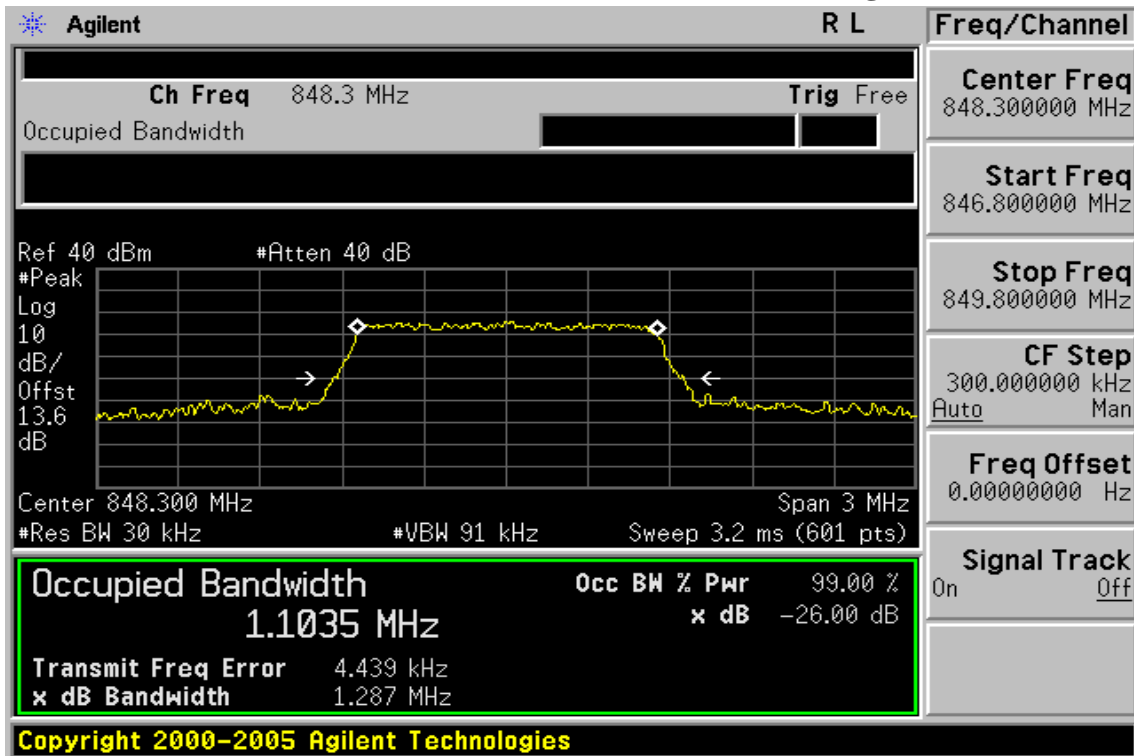
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**1.4MHz BW LTE-Band 5 16QAM Channel Mid**



**1.4MHz BW LTE-Band 5 16QAM Channel High**



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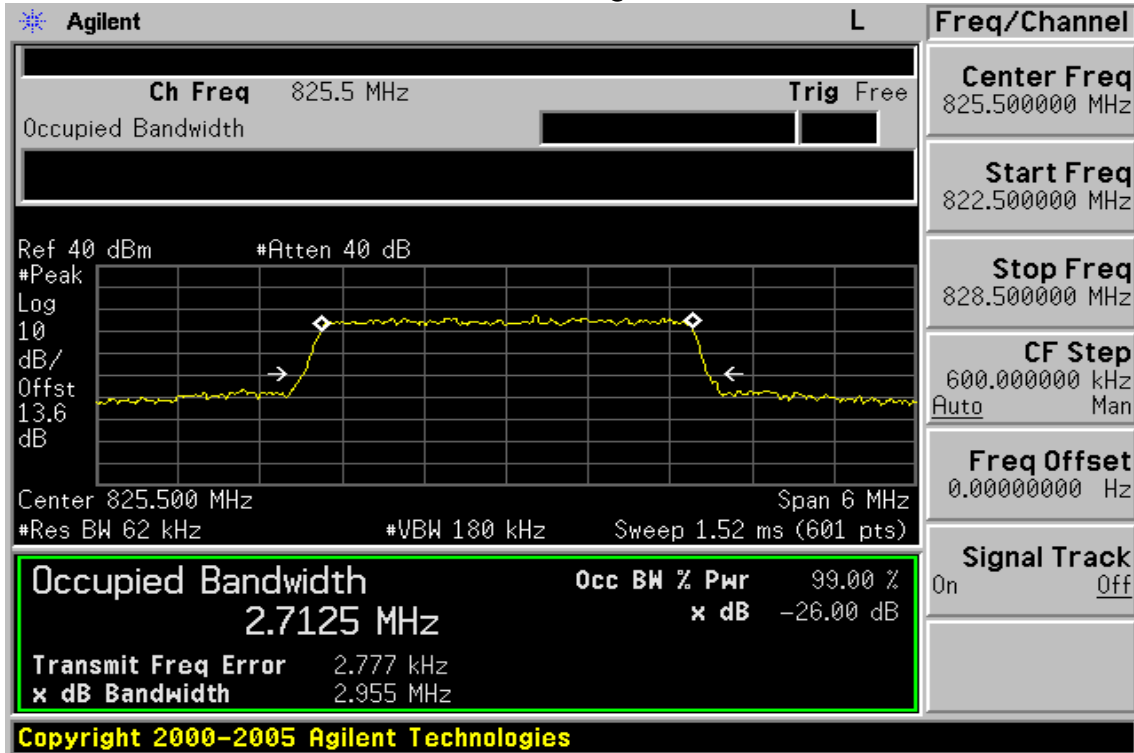
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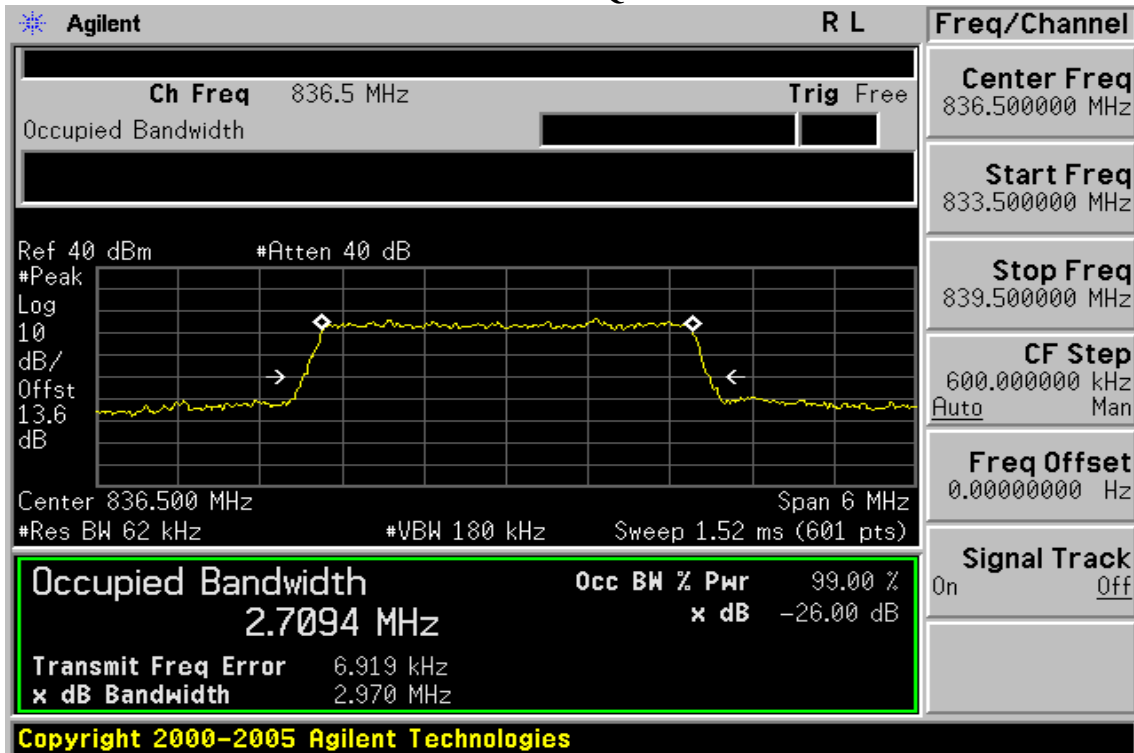
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3MHz BW LTE-Band 5 QPSK Channel Low



3MHz BW LTE-Band 5 QPSK Channel Mid



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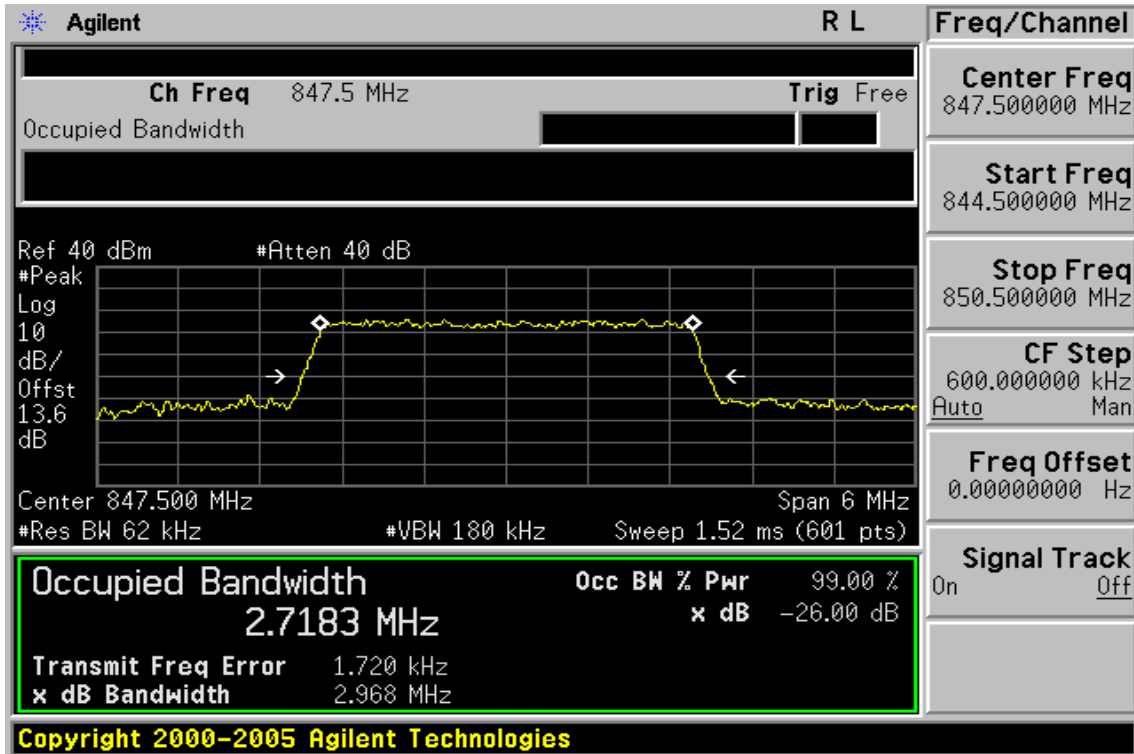
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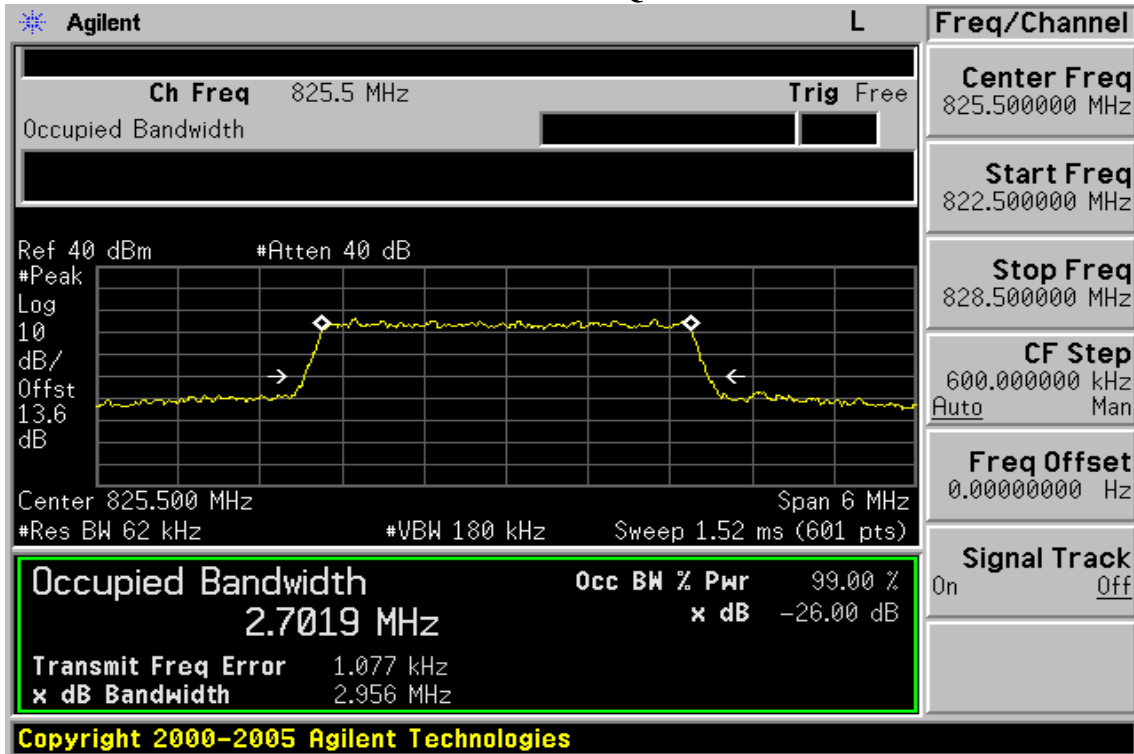
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### 3MHz BW LTE-Band 5 QPSK Channel High



### 3MHz BW LTE-Band 5 16QAM Channel Low



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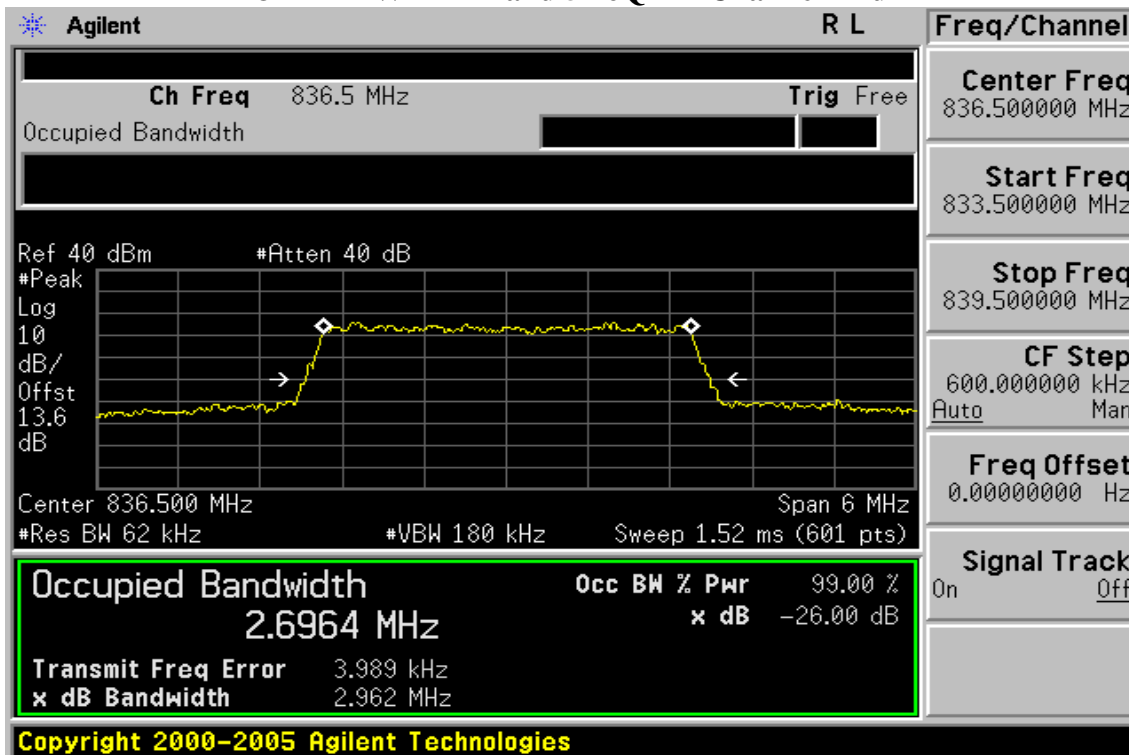
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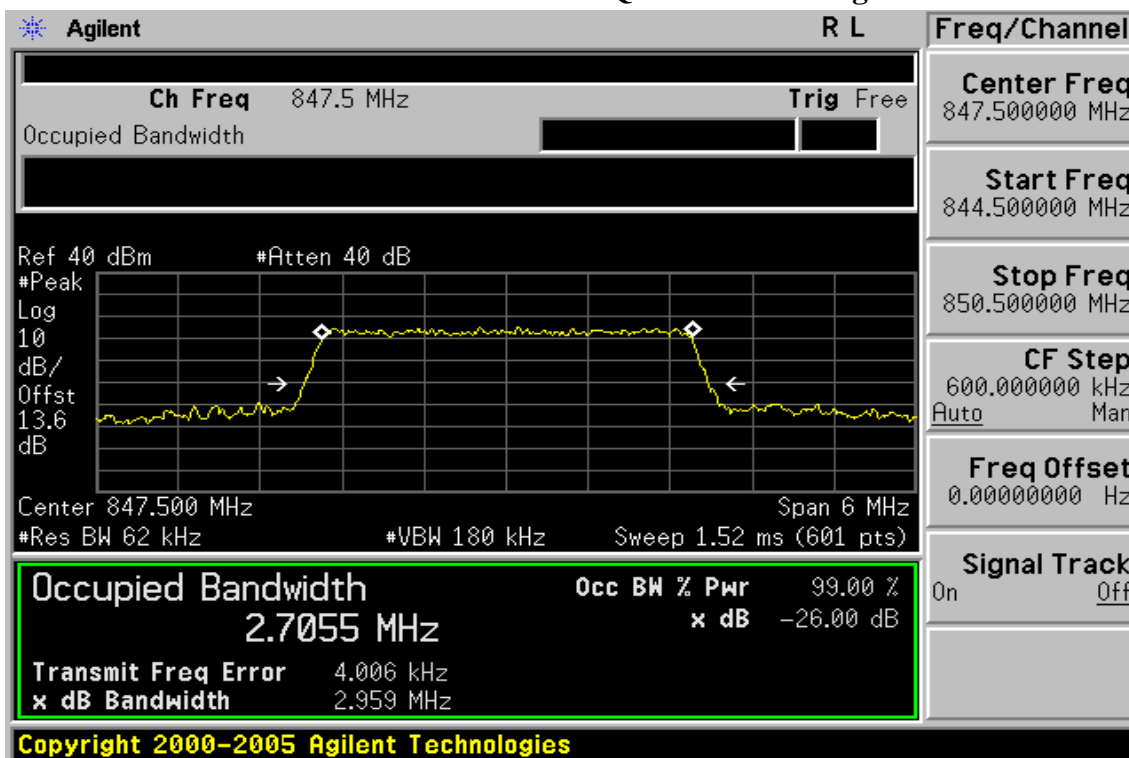
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### 3MHz BW LTE-Band 5 16QAM Channel Mid



### 3MHz BW LTE-Band 5 16QAM Channel High



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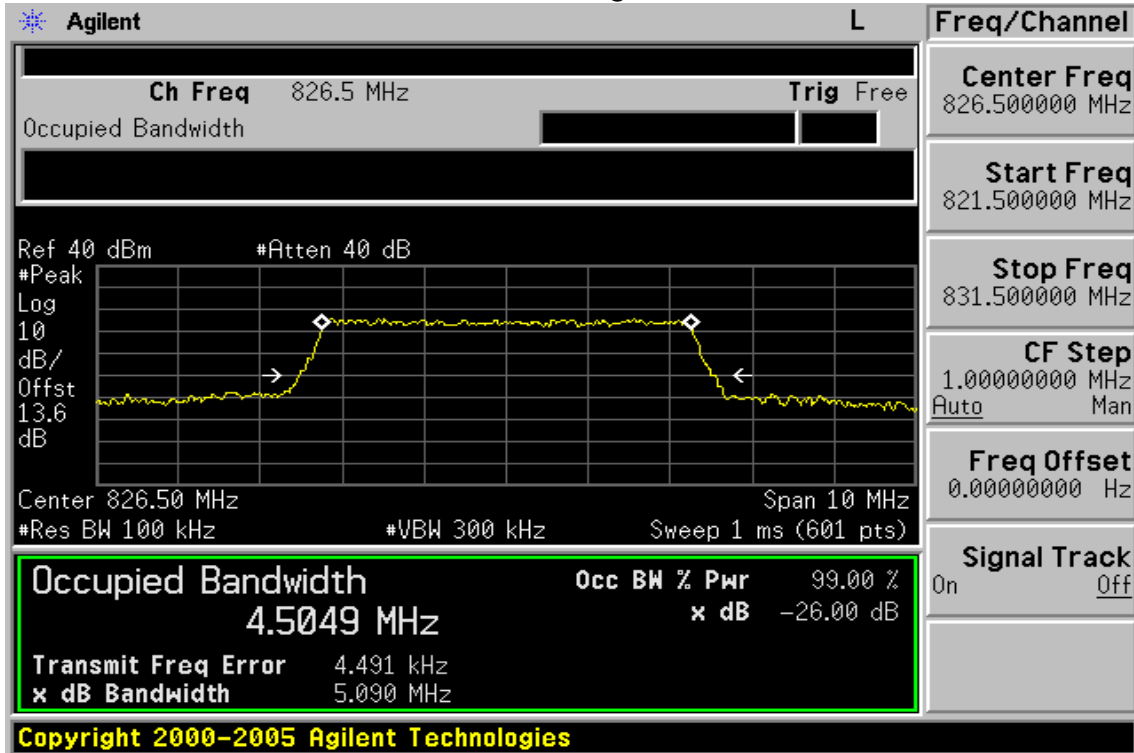
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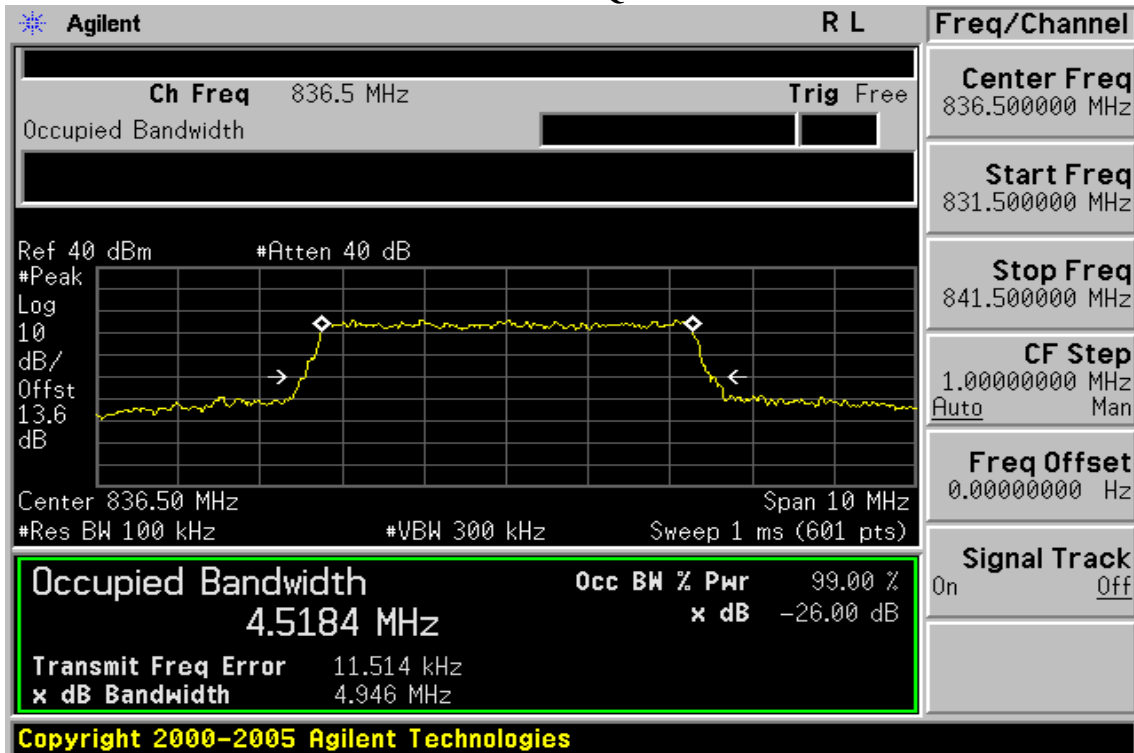
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5MHz BW LTE-Band 5 QPSK Channel Low



5MHz BW LTE-Band 5 QPSK Channel Mid



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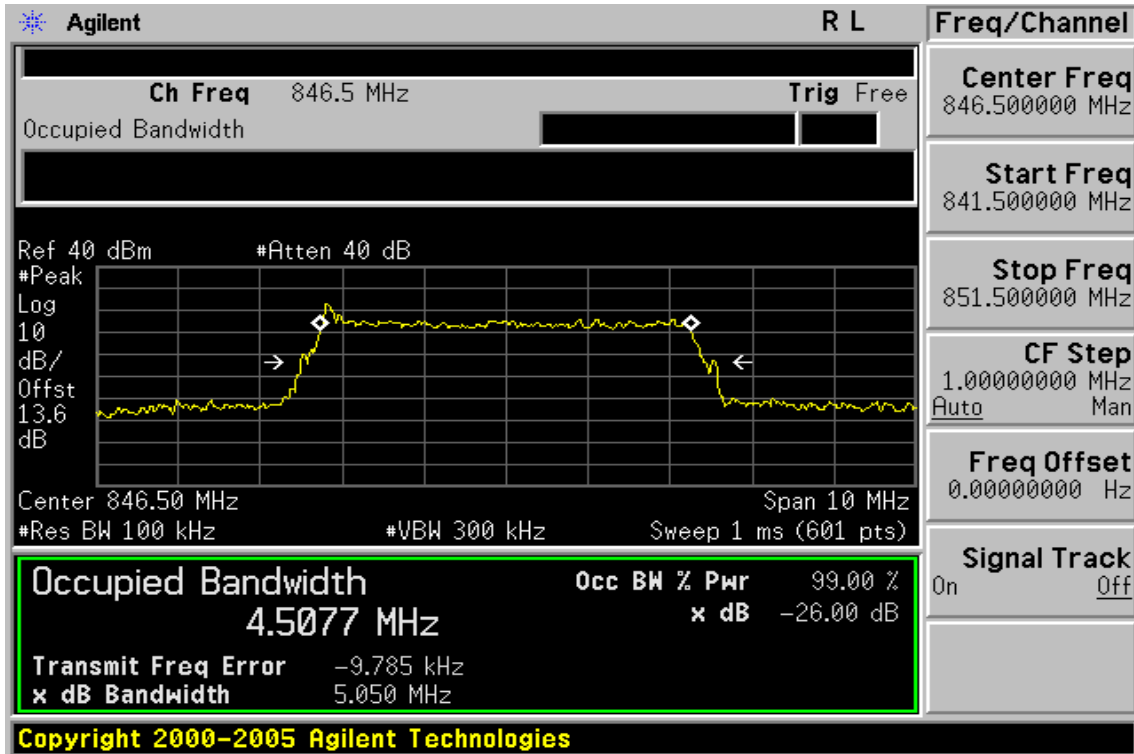
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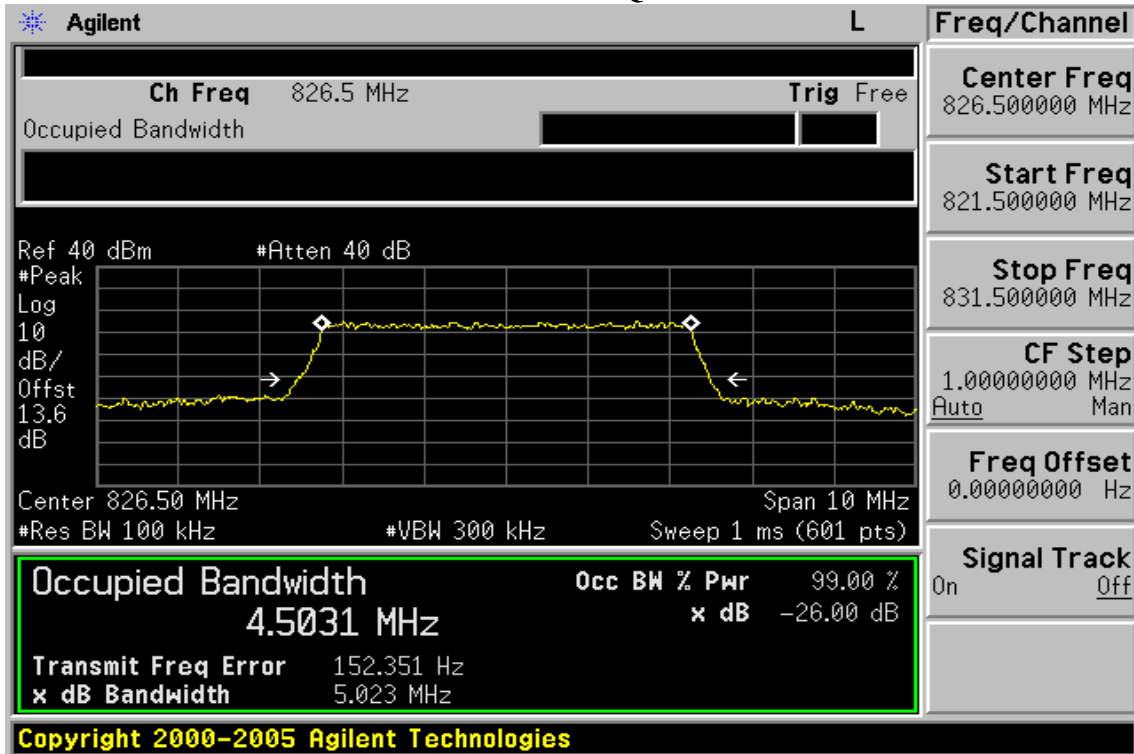
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### 5MHz BW LTE-Band 5 QPSK Channel High



### 5MHz BW LTE-Band 5 16QAM Channel Low



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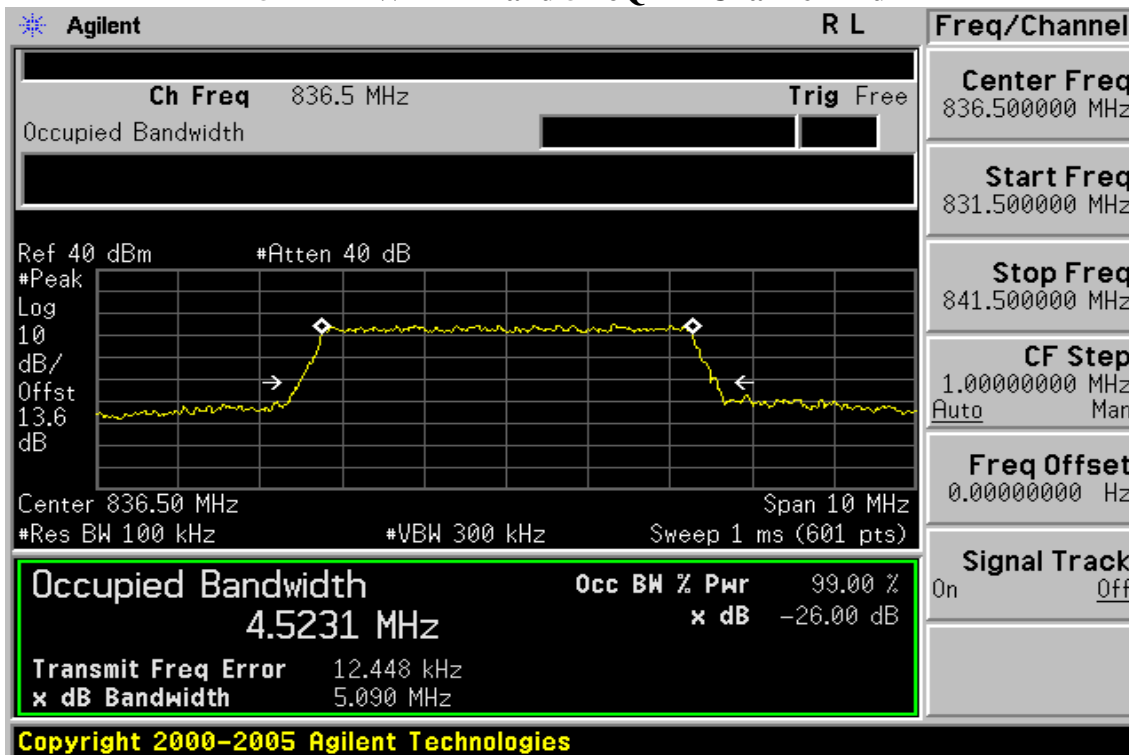
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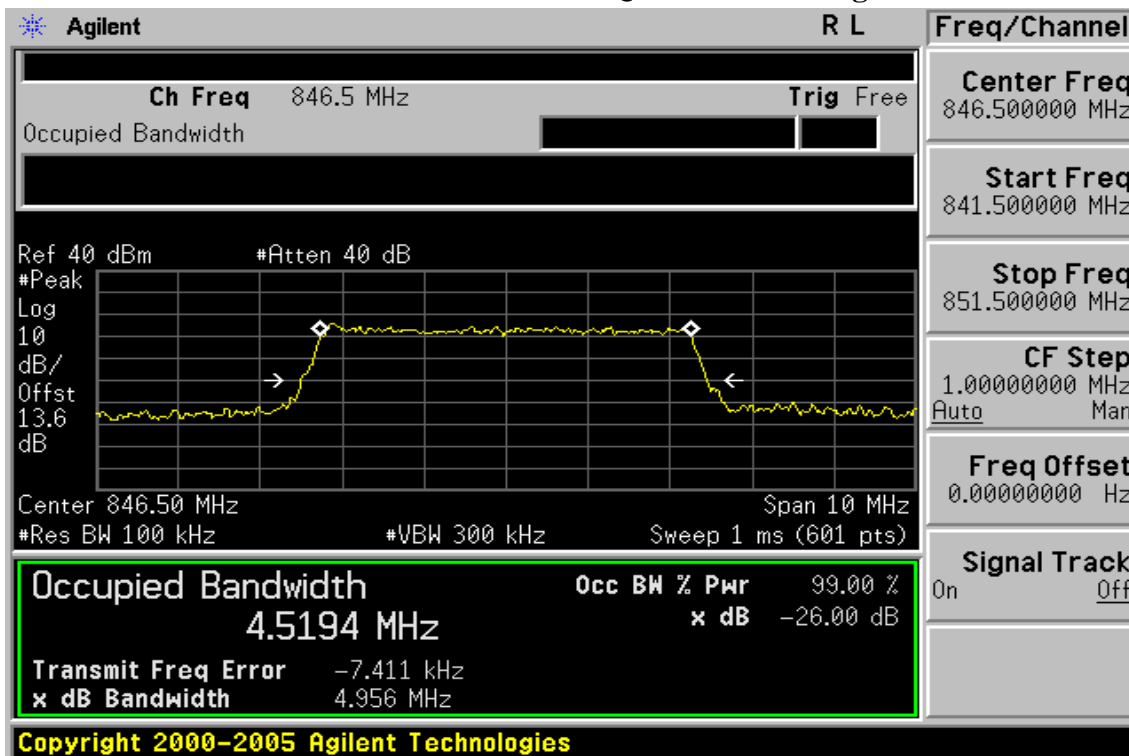
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5MHz BW LTE-Band 5 16QAM Channel Mid



5MHz BW LTE-Band 5 16QAM Channel High



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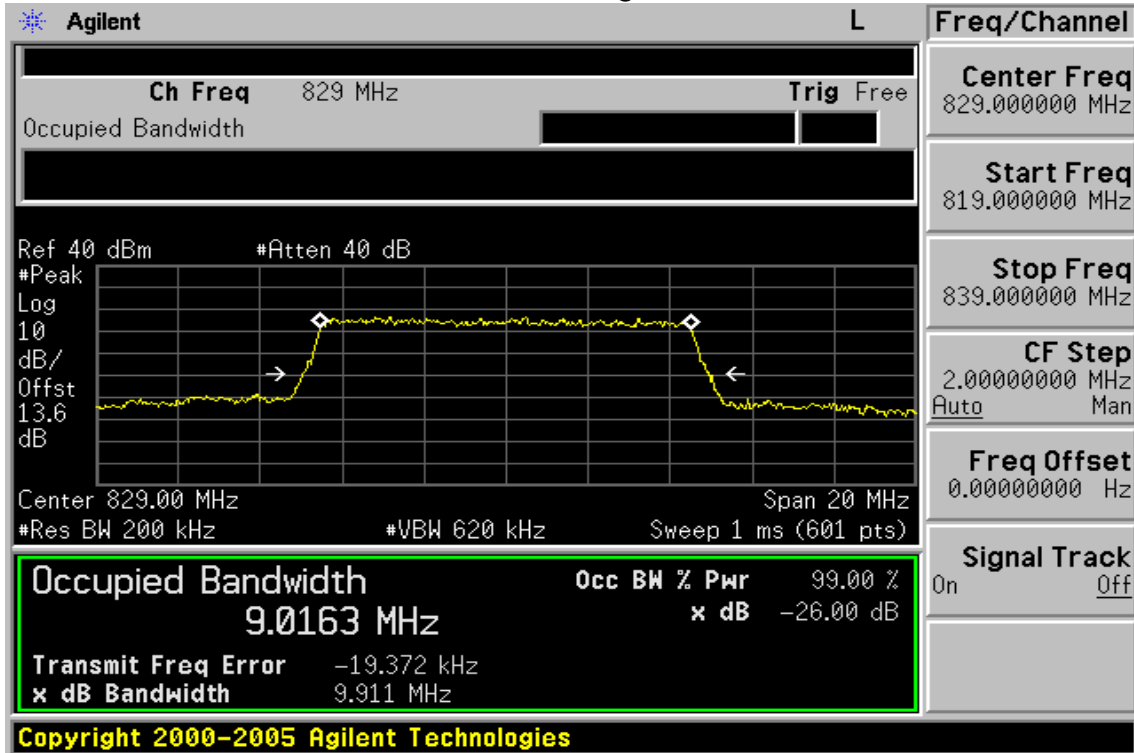
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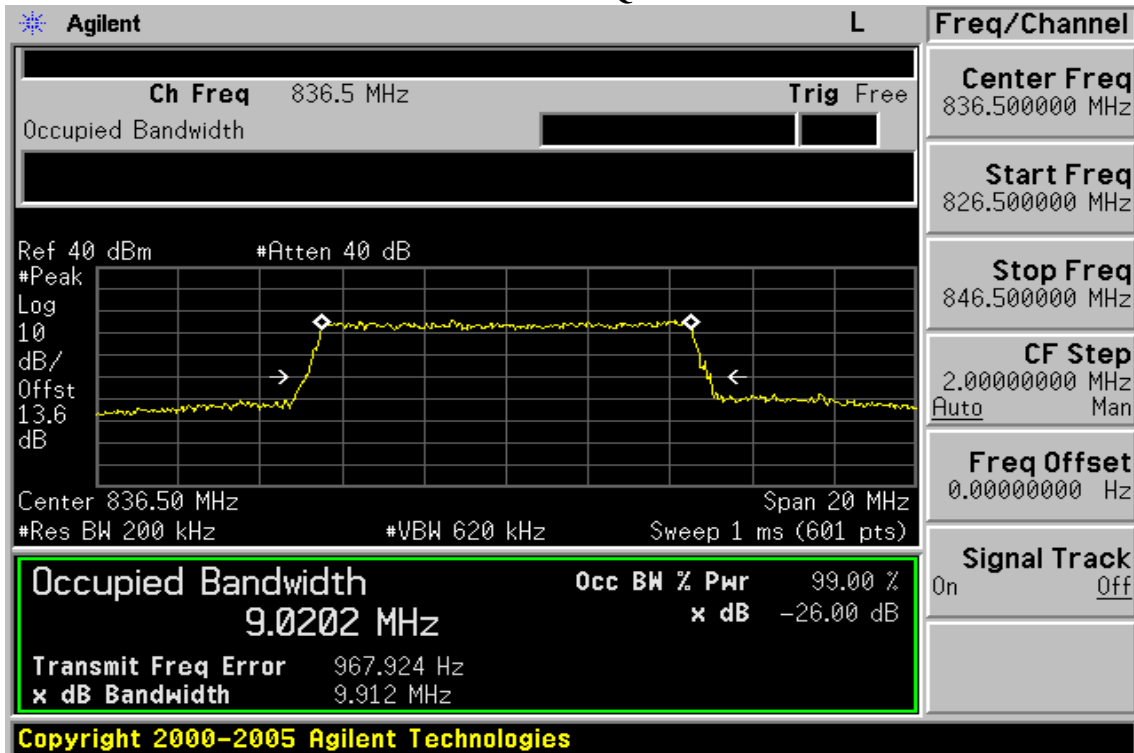
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**10MHz BW LTE-Band 5 QPSK Channel Low**



**10MHz BW LTE-Band 5 QPSK Channel Mid**



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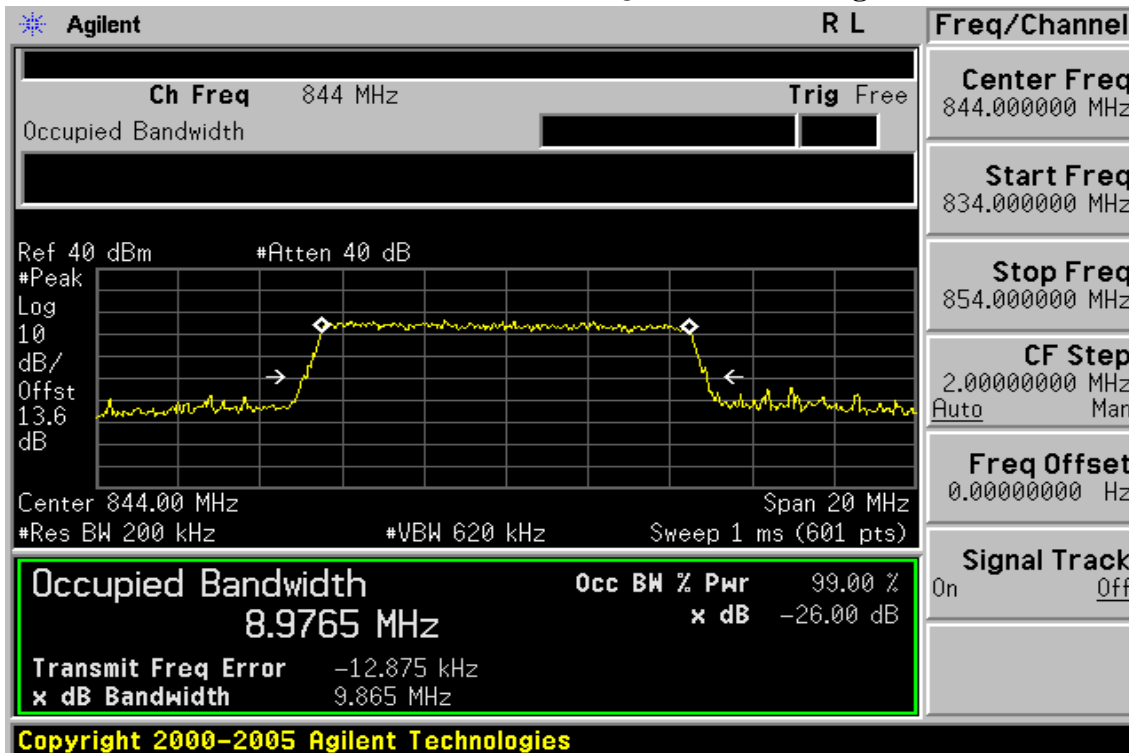
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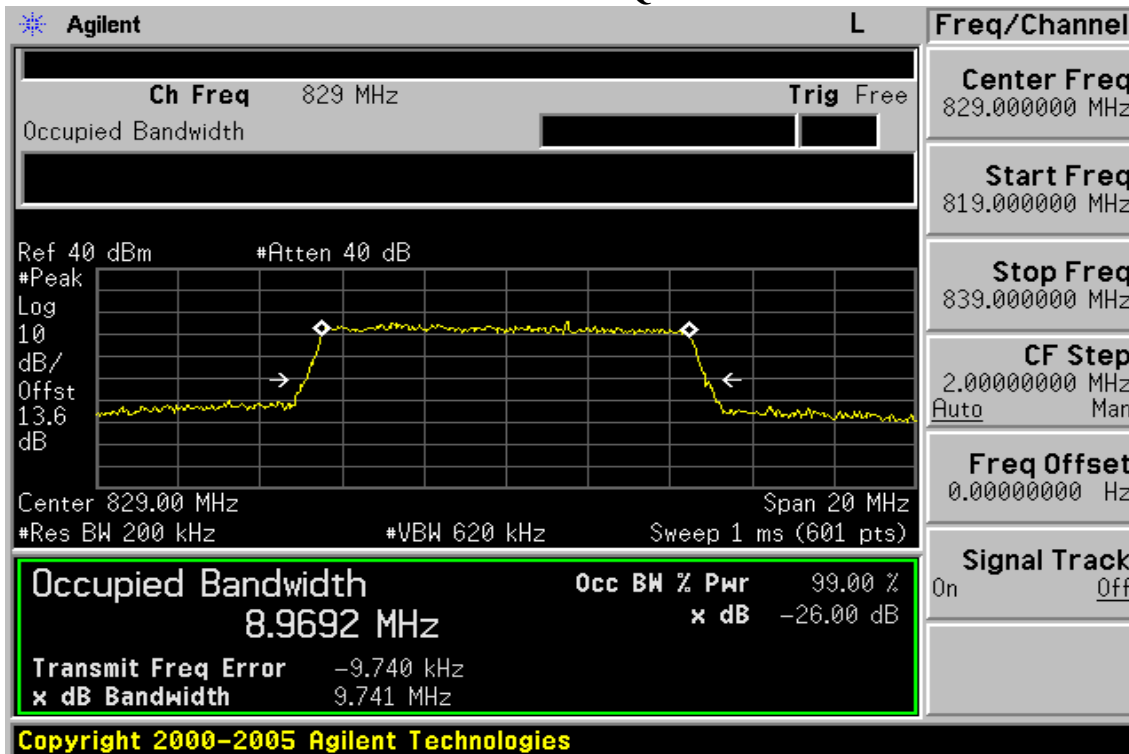
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**5MHz BW LTE-Band 5 16QAM Channel High**



**10MHz BW LTE-Band 5 16QAM Channel Low**



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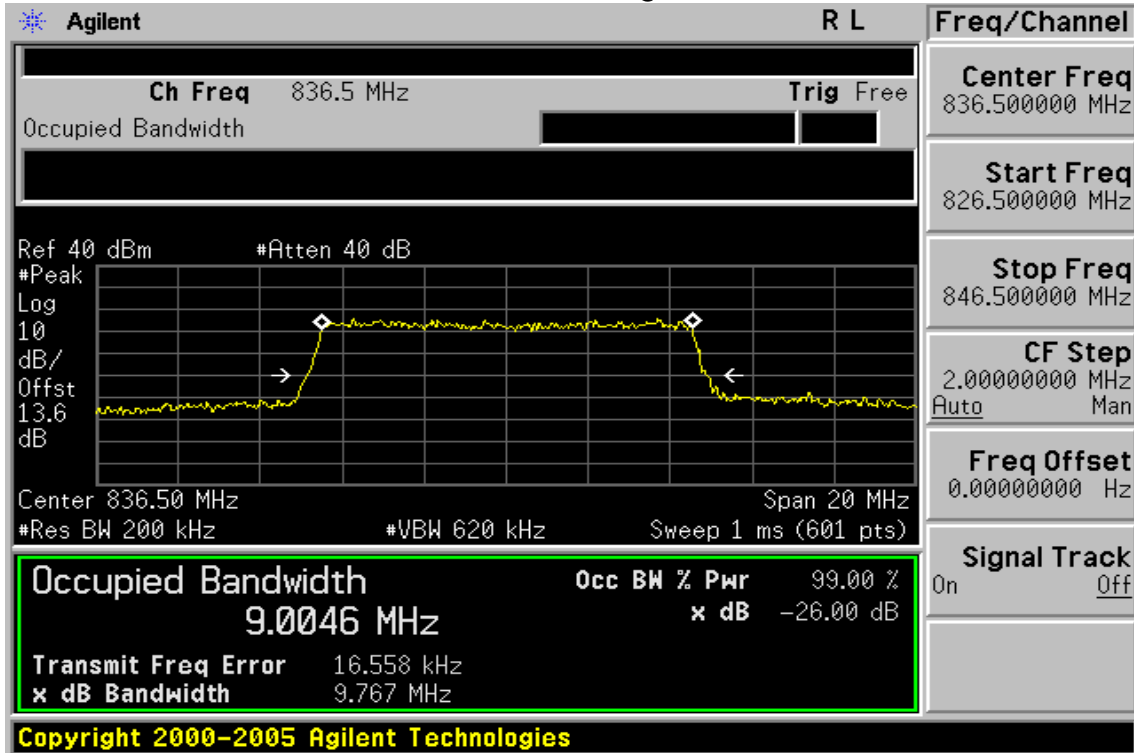
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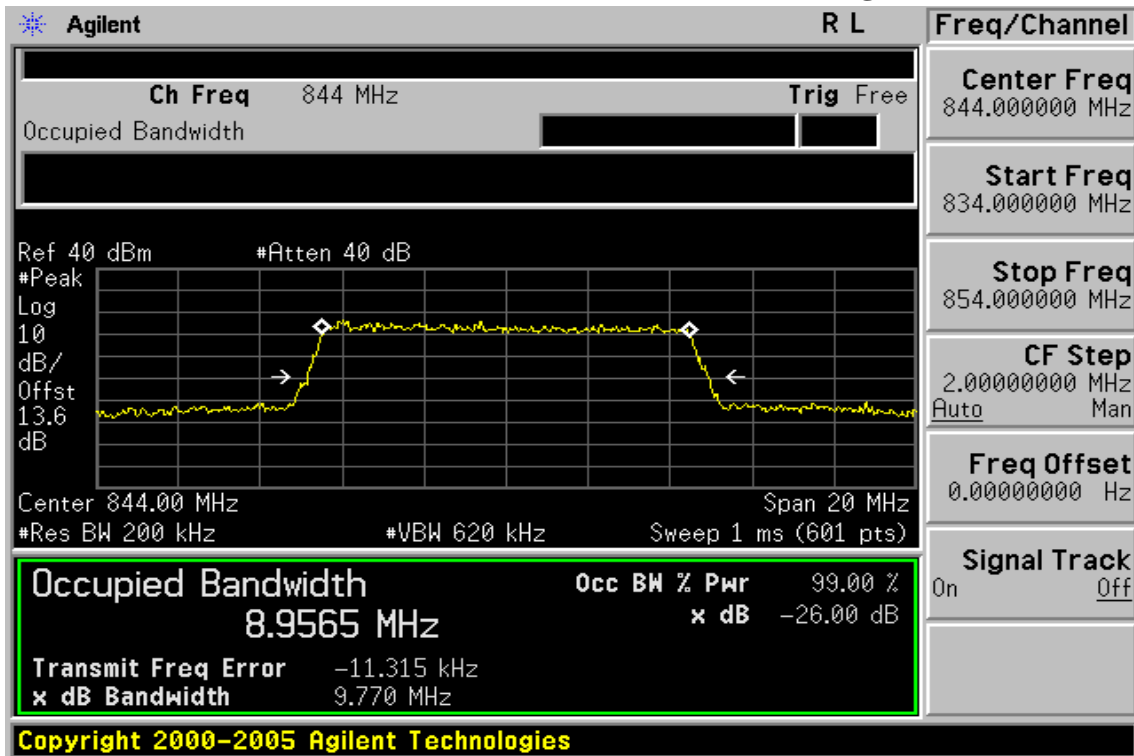
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10MHz BW LTE-Band 5 16QAM Channel Mid



10MHz BW LTE-Band 5 16QAM Channel High



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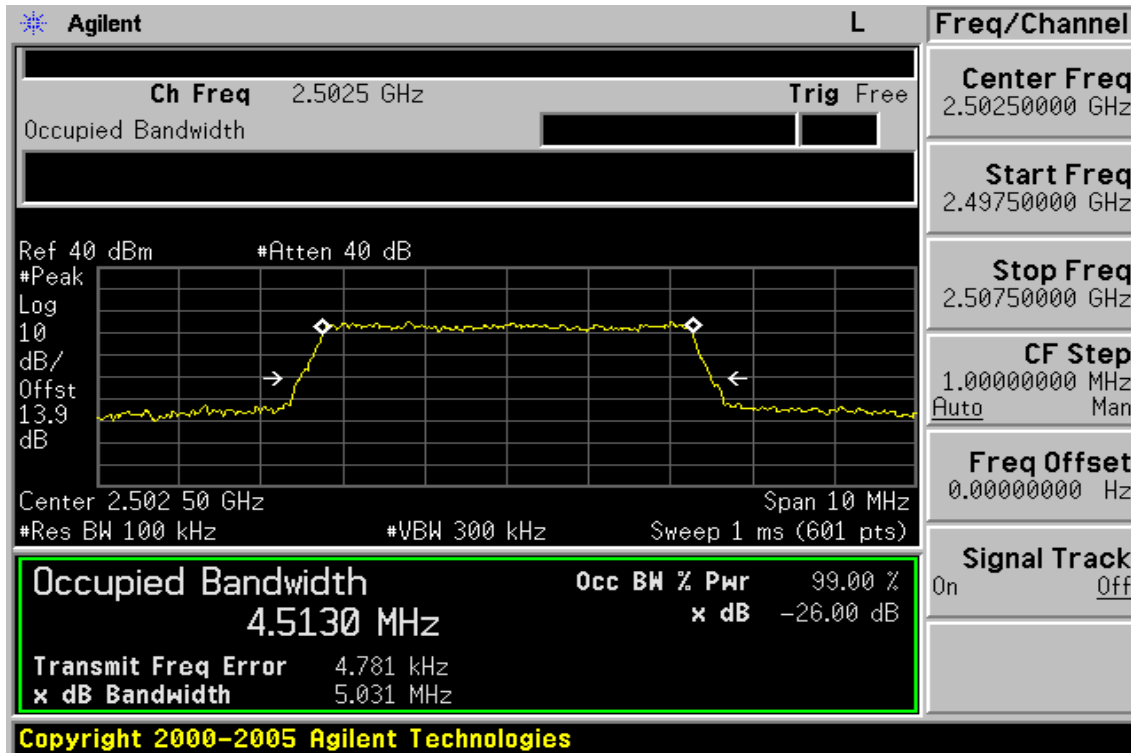
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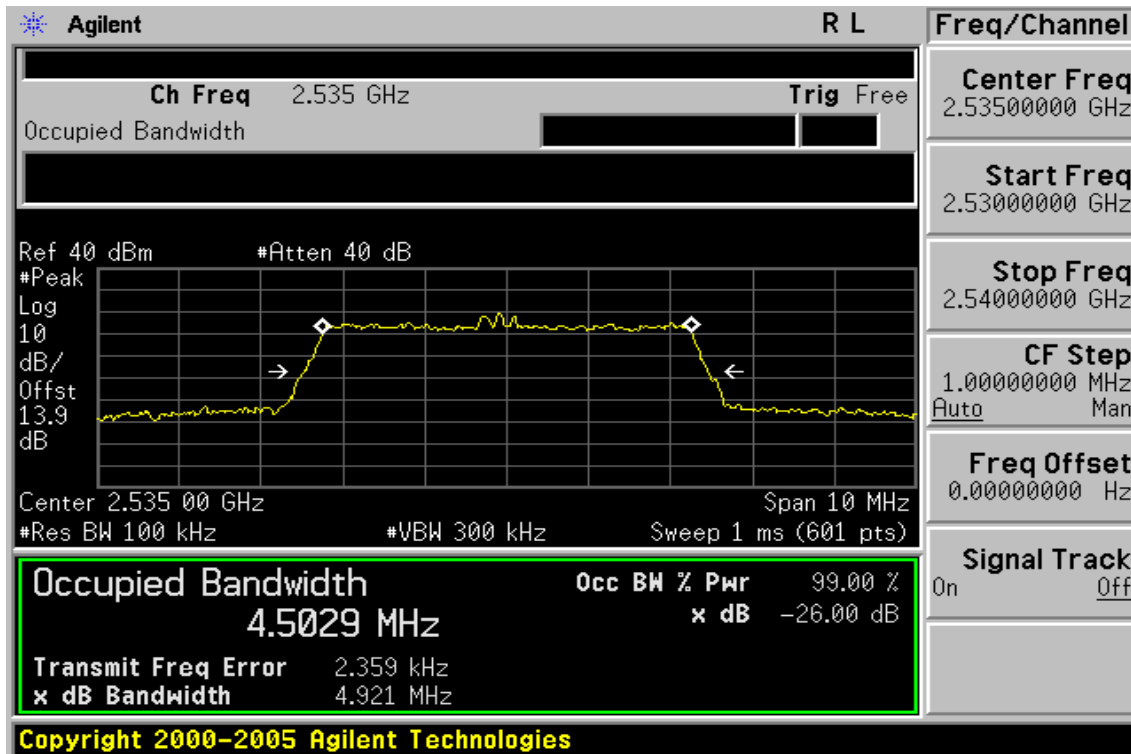
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5MHz BW LTE-Band 7 QPSK Channel Low



5MHz BW LTE-Band 7 QPSK Channel Mid



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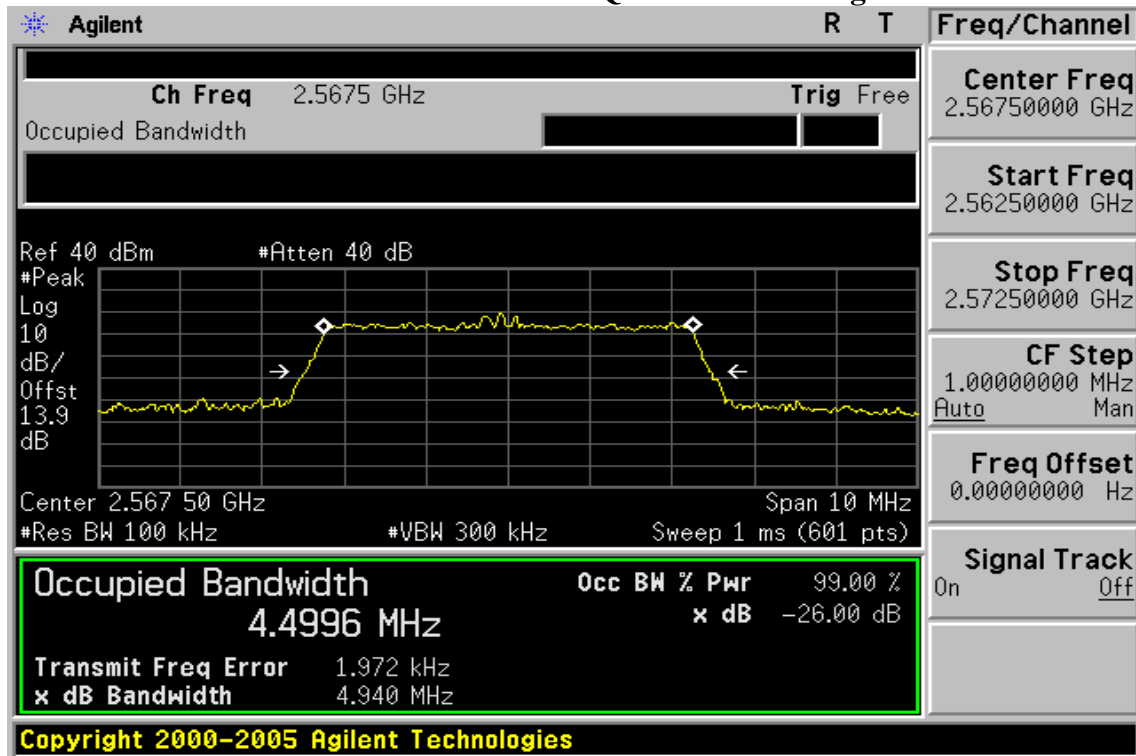
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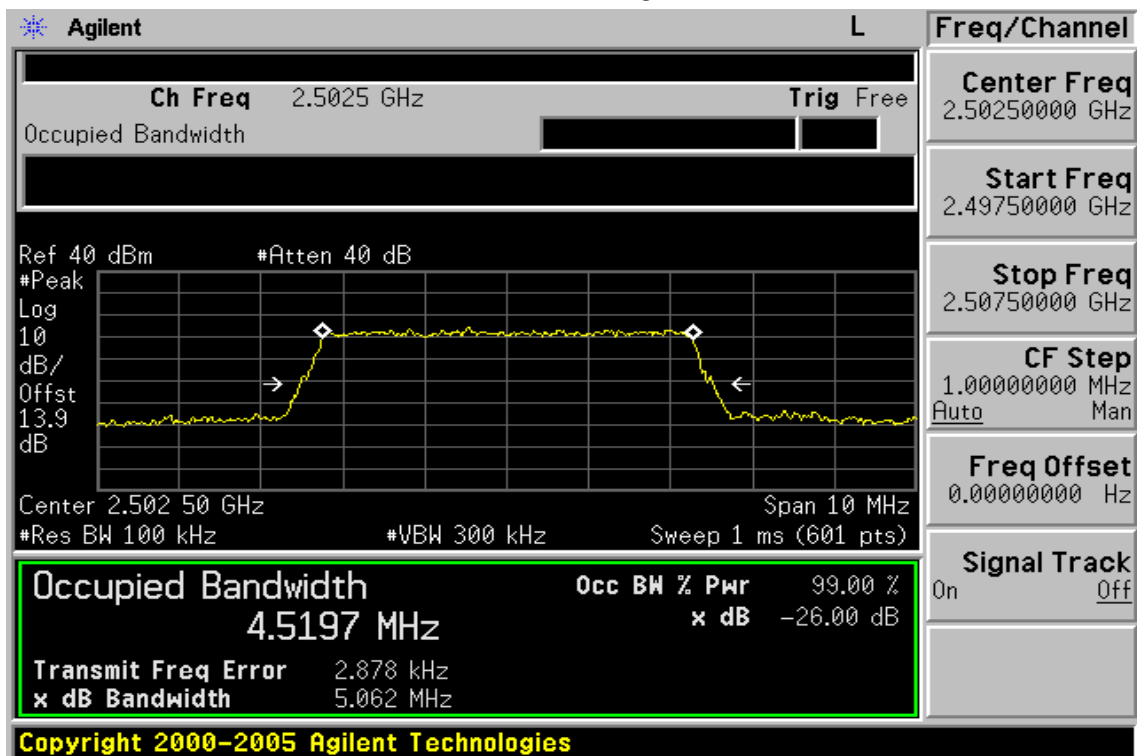
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5MHz BW LTE-Band 7 QPSK Channel High



5MHz BW LTE-Band 7 16QAM Channel Low



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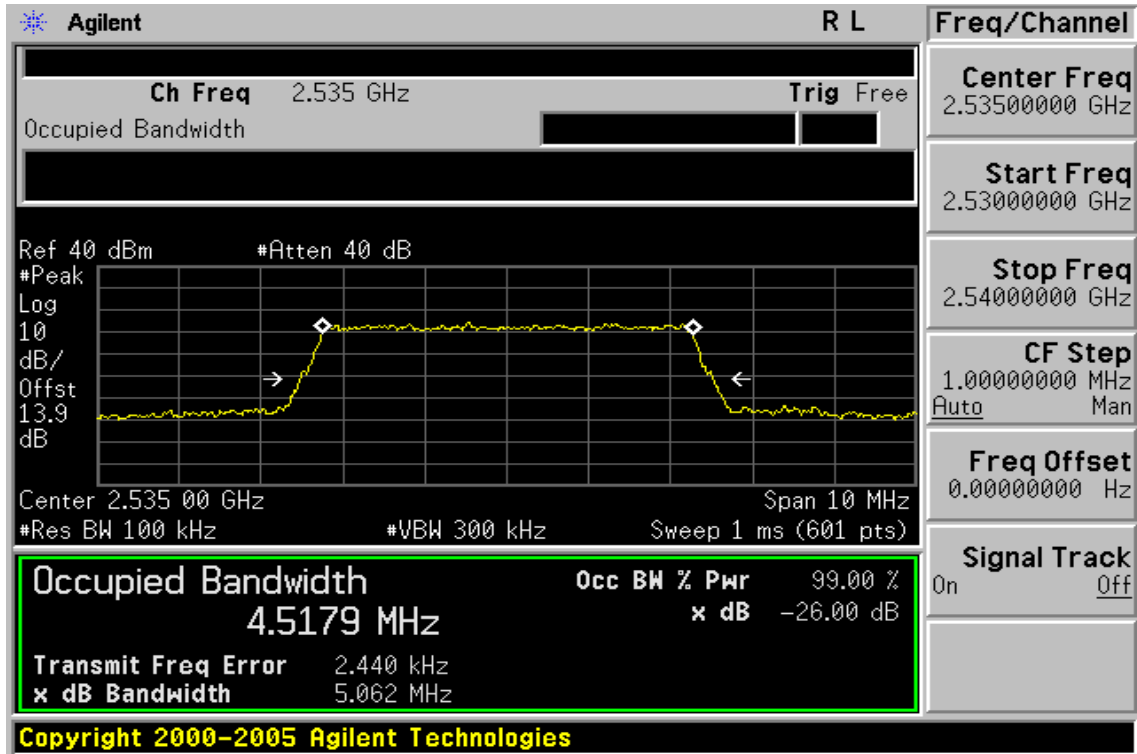
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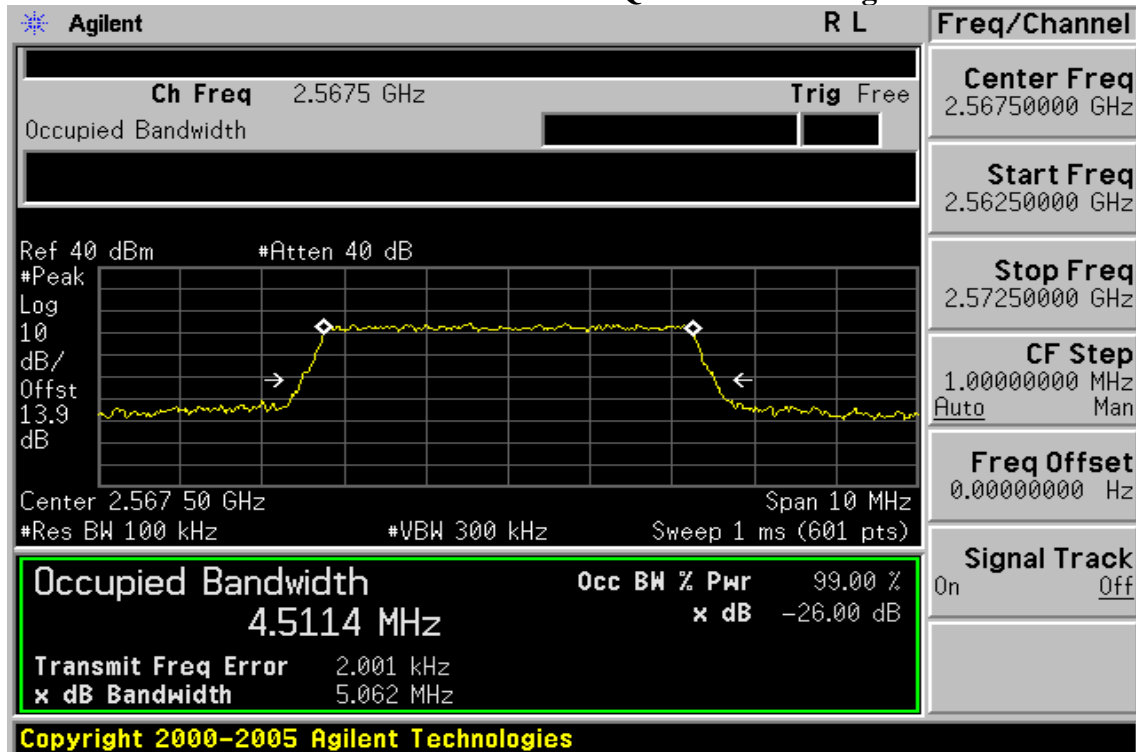
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5MHz BW LTE-Band 7 16QAM Channel Mid



5MHz BW LTE-Band 7 16QAM Channel High



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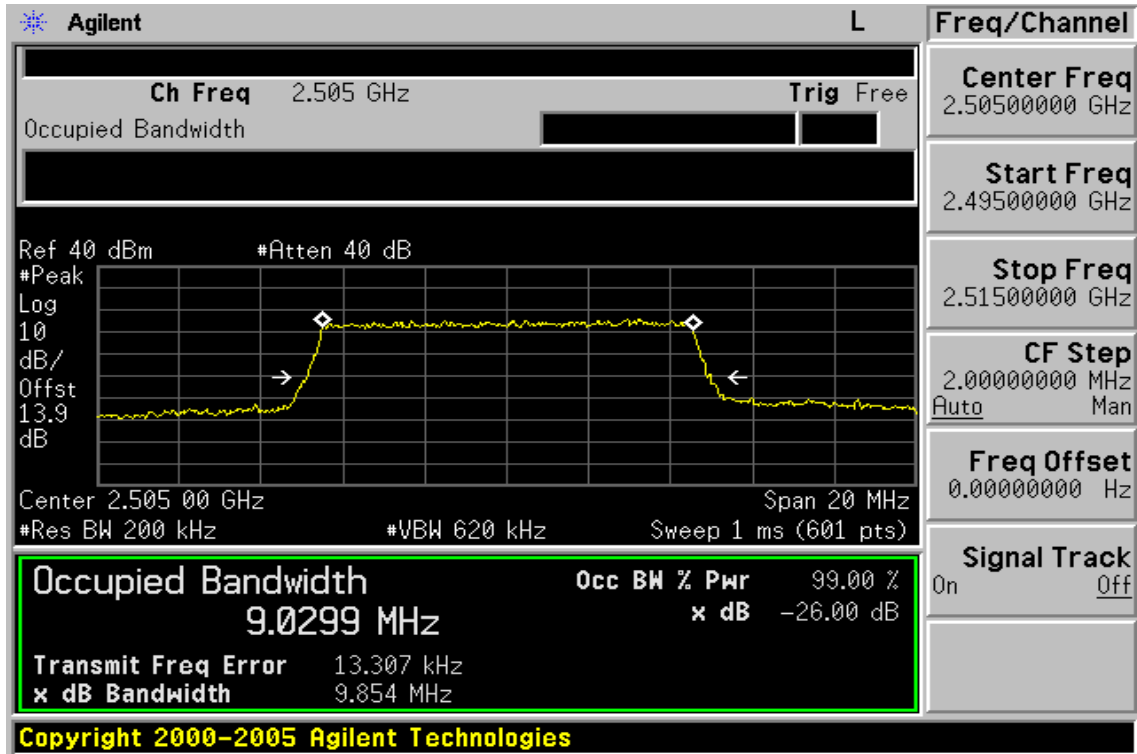
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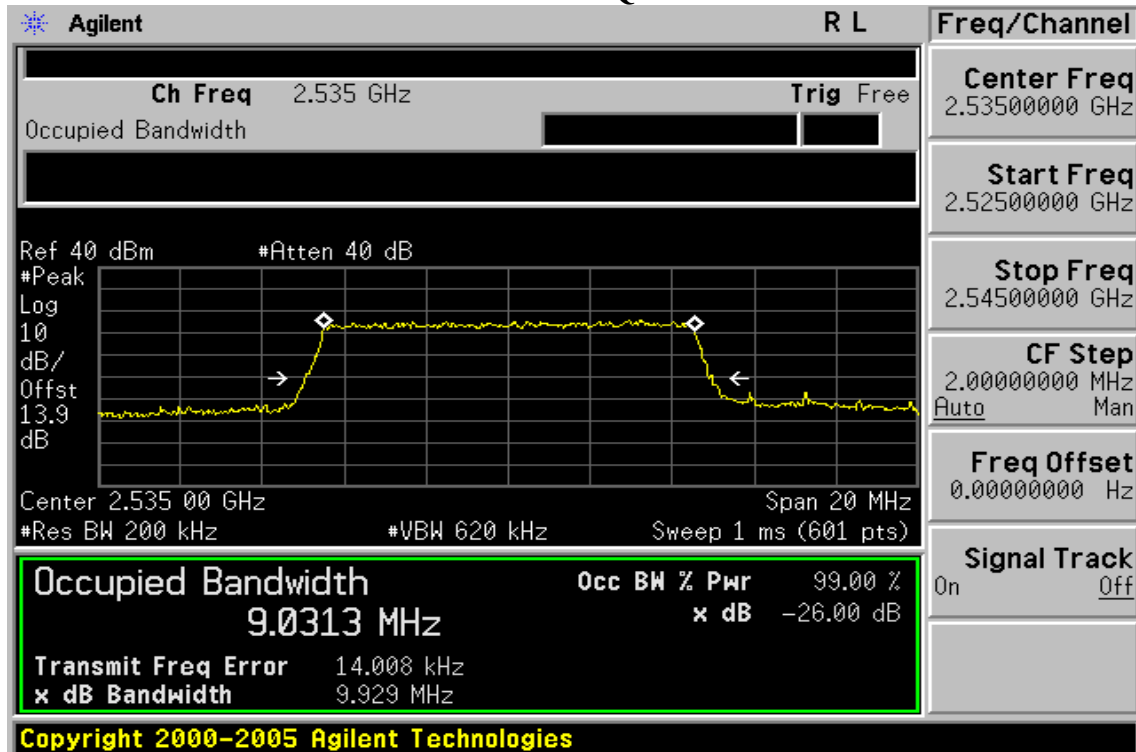
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10MHz BW LTE-Band 7 QPSK Channel Low



10MHz BW LTE-Band 7 QPSK Channel Mid



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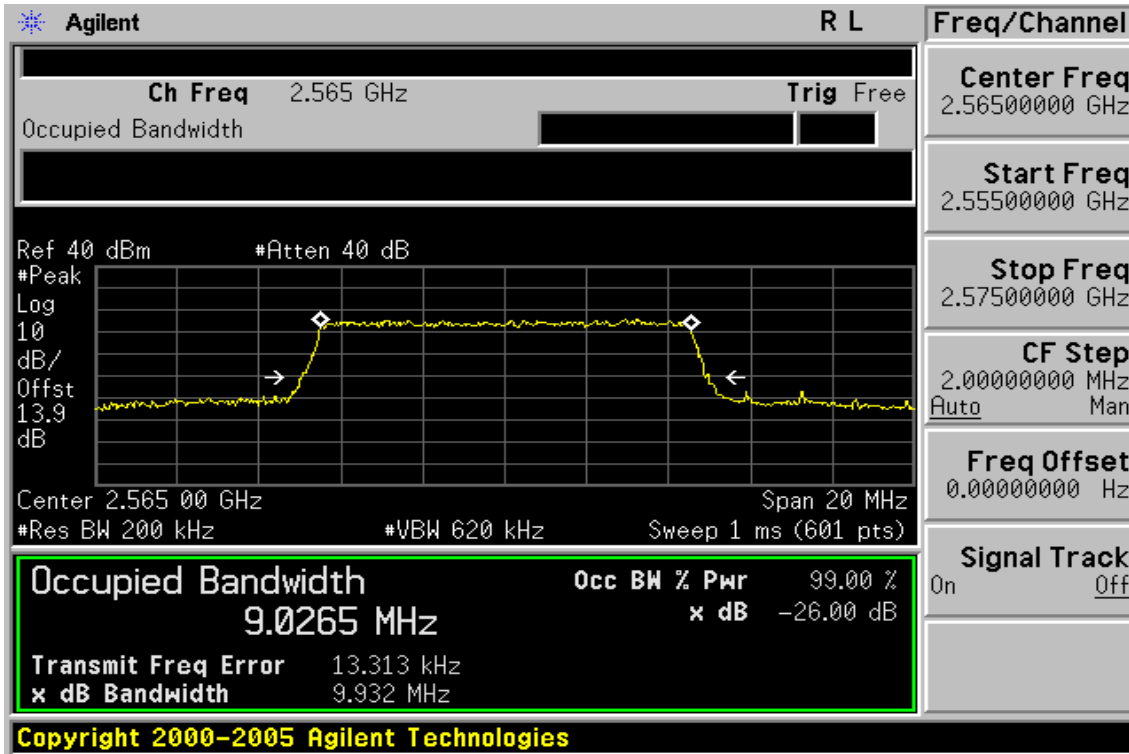
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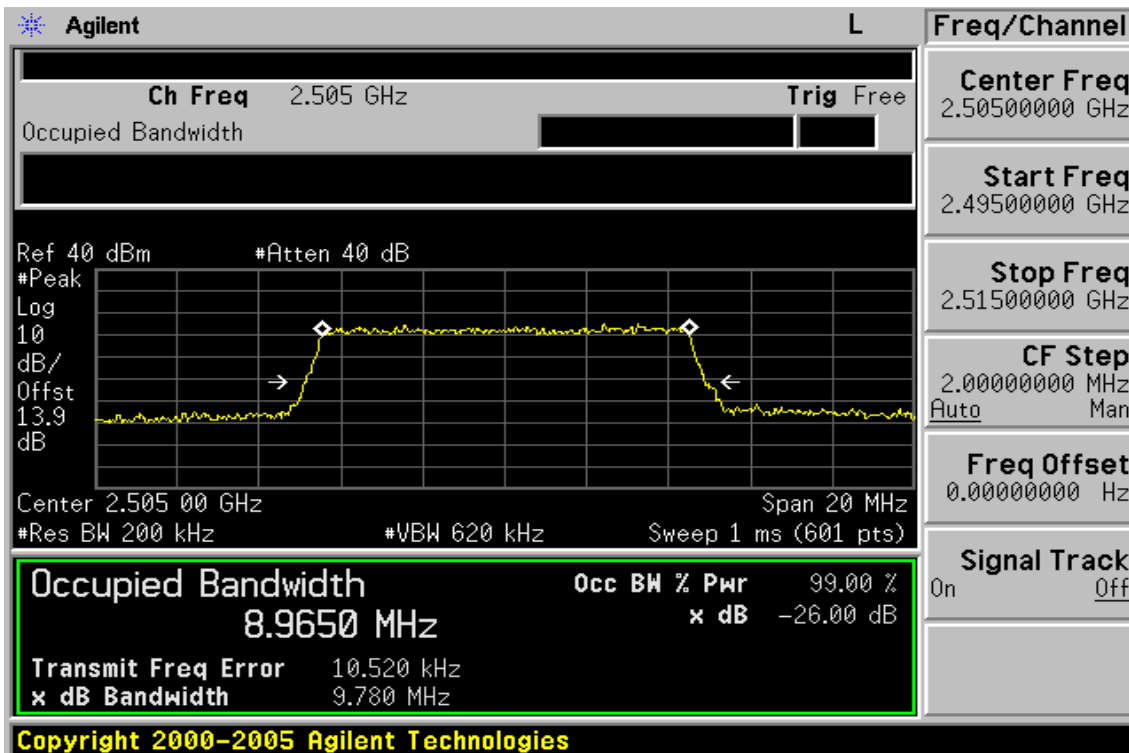
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10MHz BW LTE-Band 7 QPSK Channel High



10MHz BW LTE-Band 7 16QAM Channel Low



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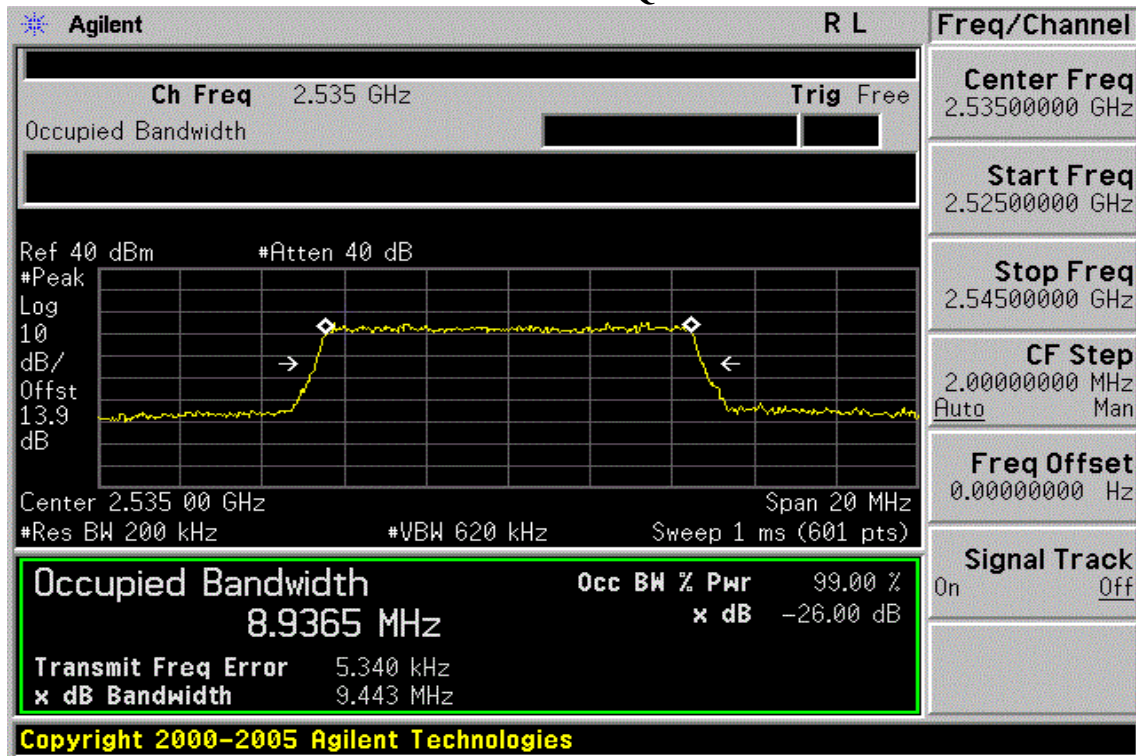
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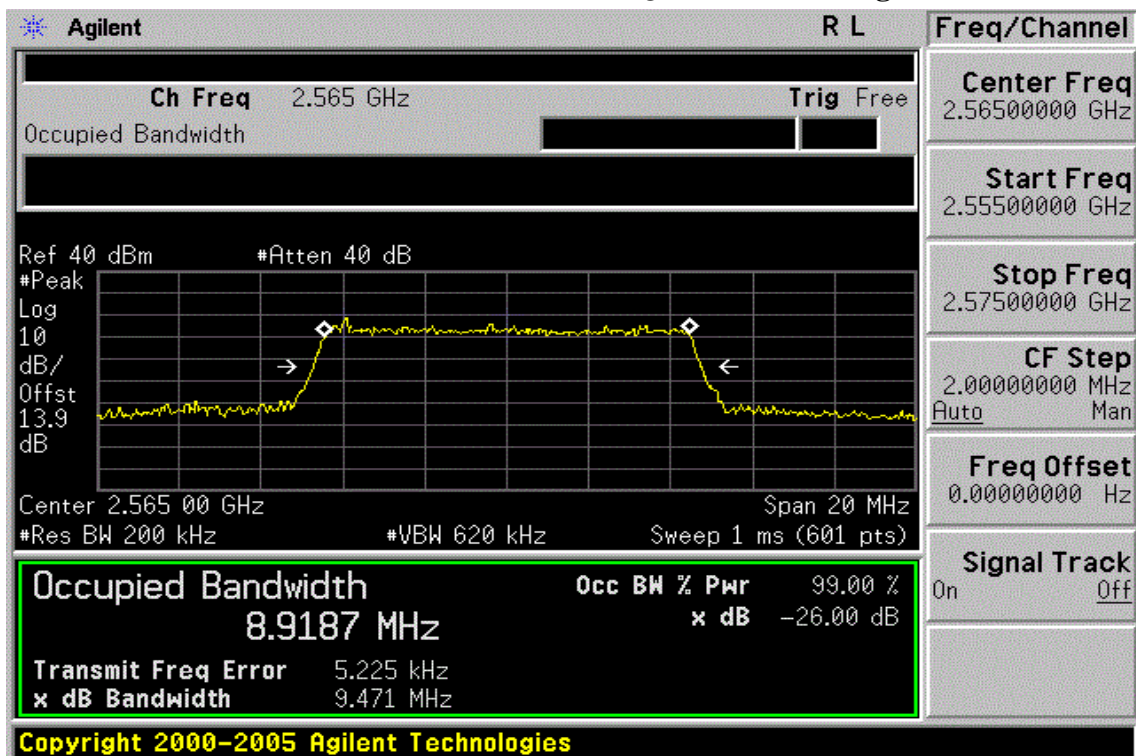
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10MHz BW LTE-Band 7 16QAM Channel Mid



10MHz BW LTE-Band 7 16QAM Channel High



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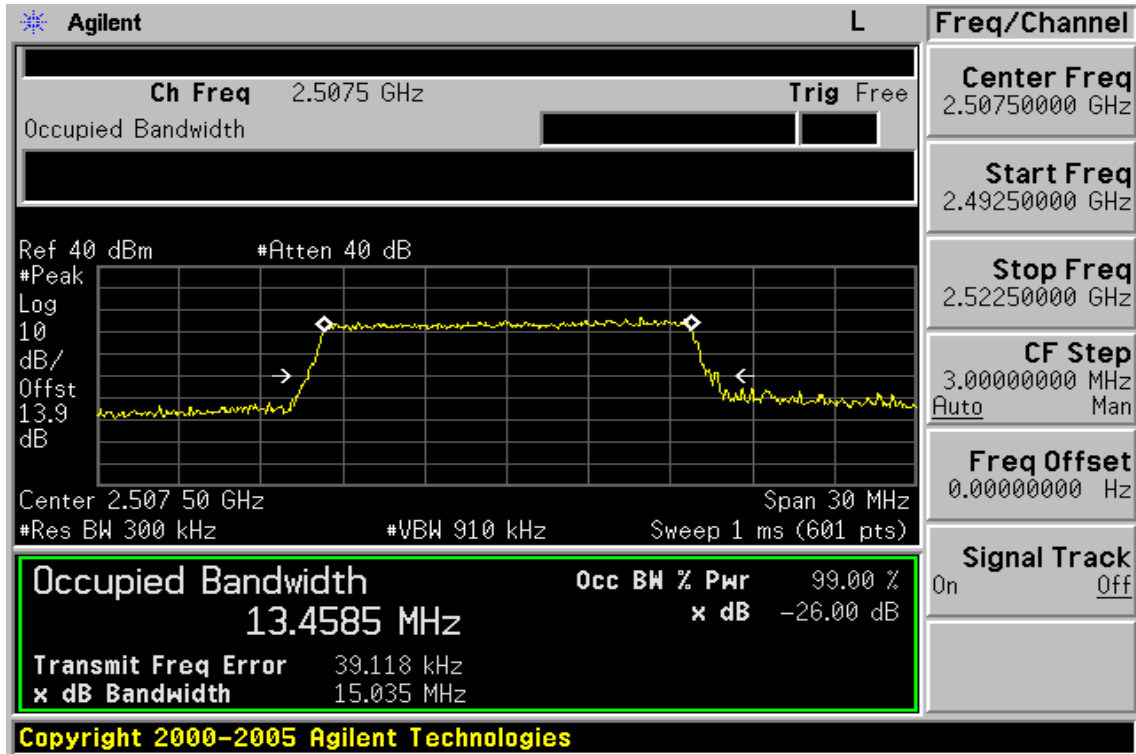
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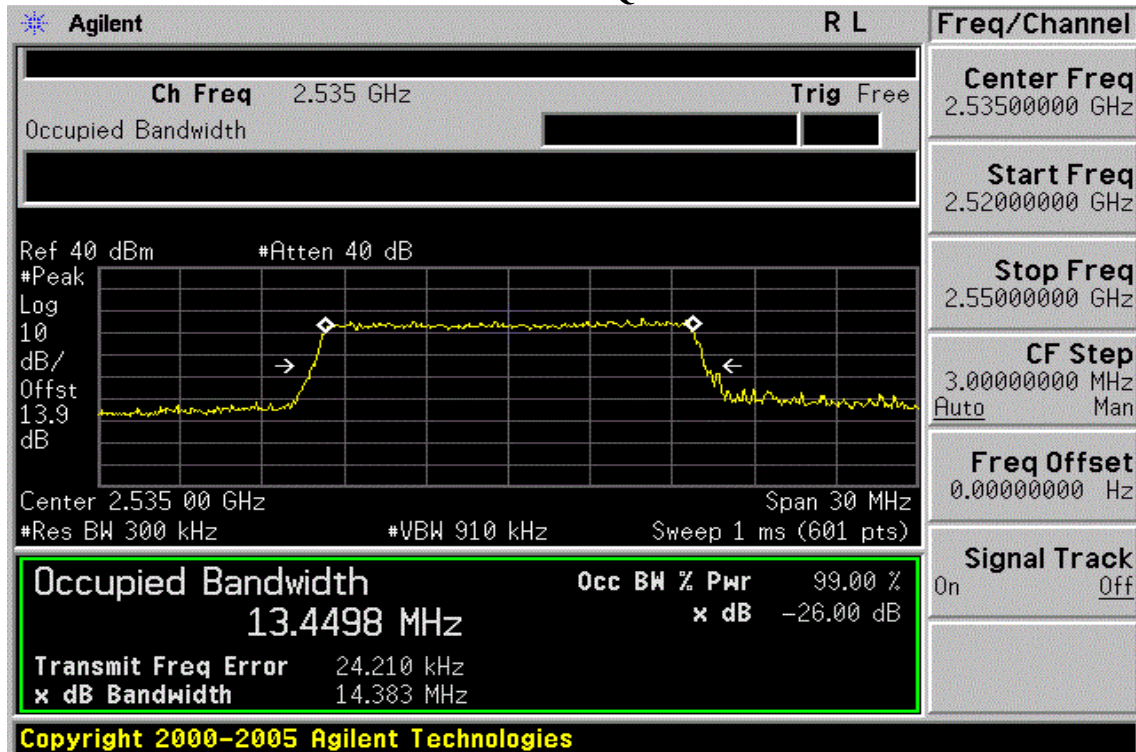
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15MHz BW LTE-Band 7 QPSK Channel Low



15MHz BW LTE-Band 7 QPSK Channel Mid



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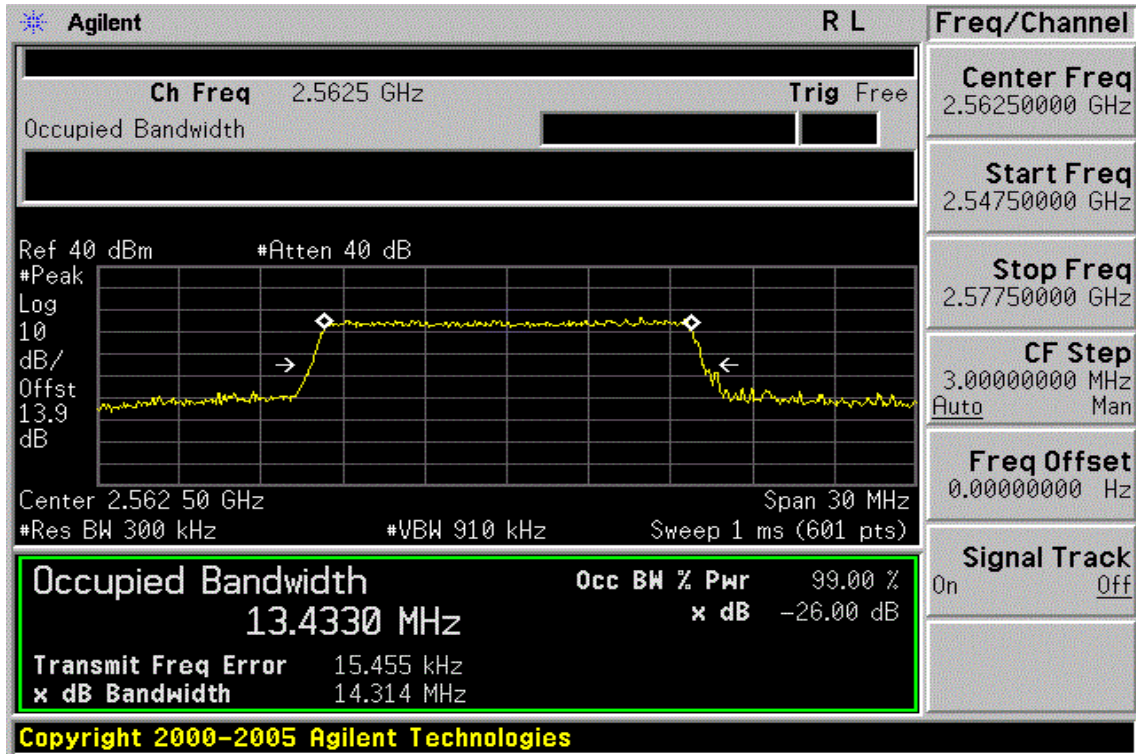
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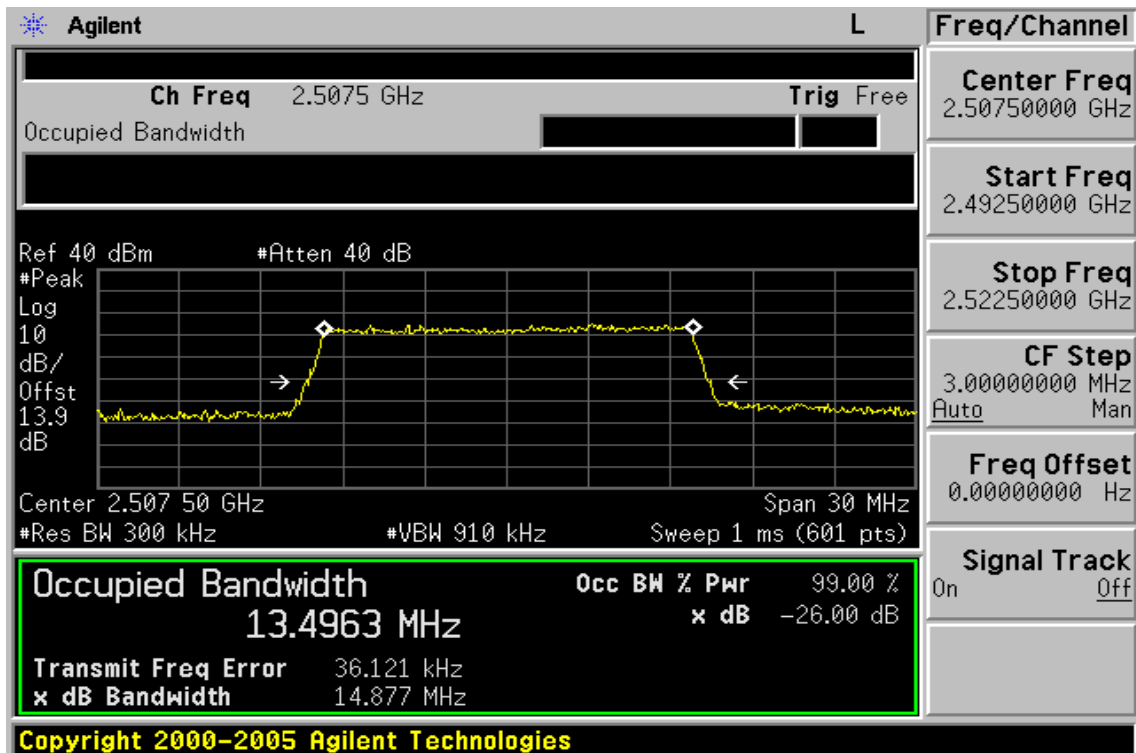
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15MHz BW LTE-Band 7 QPSK Channel High



15MHz BW LTE-Band 7 16QAM Channel Low



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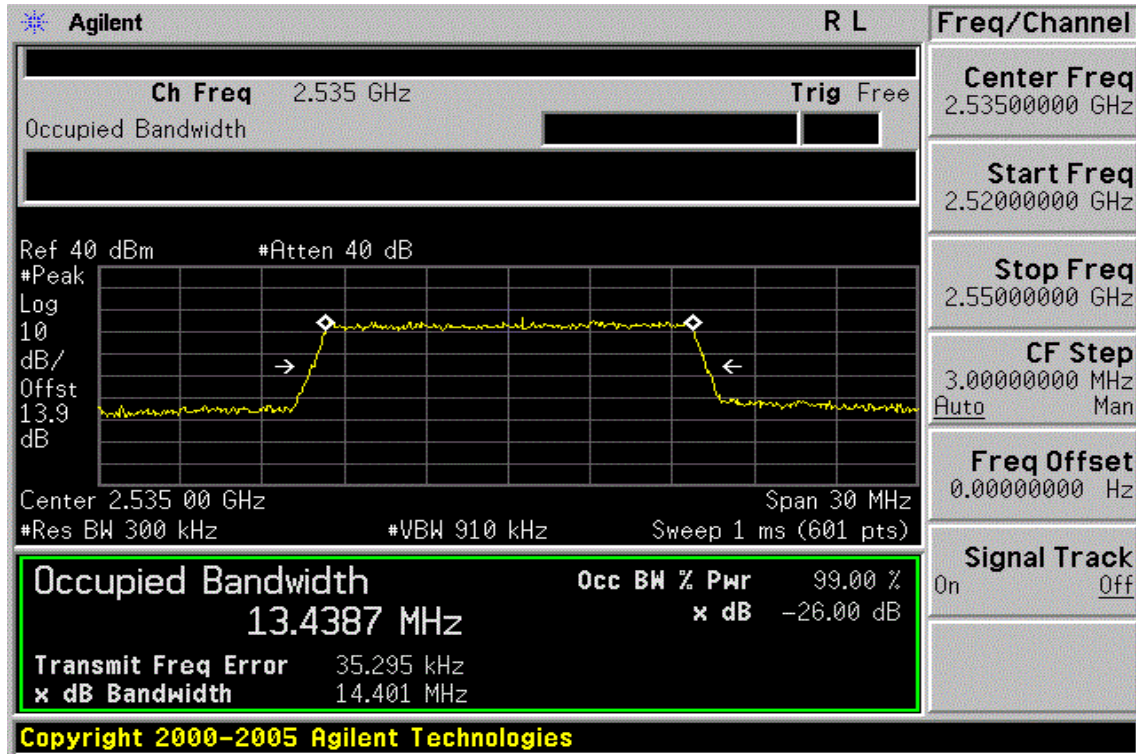
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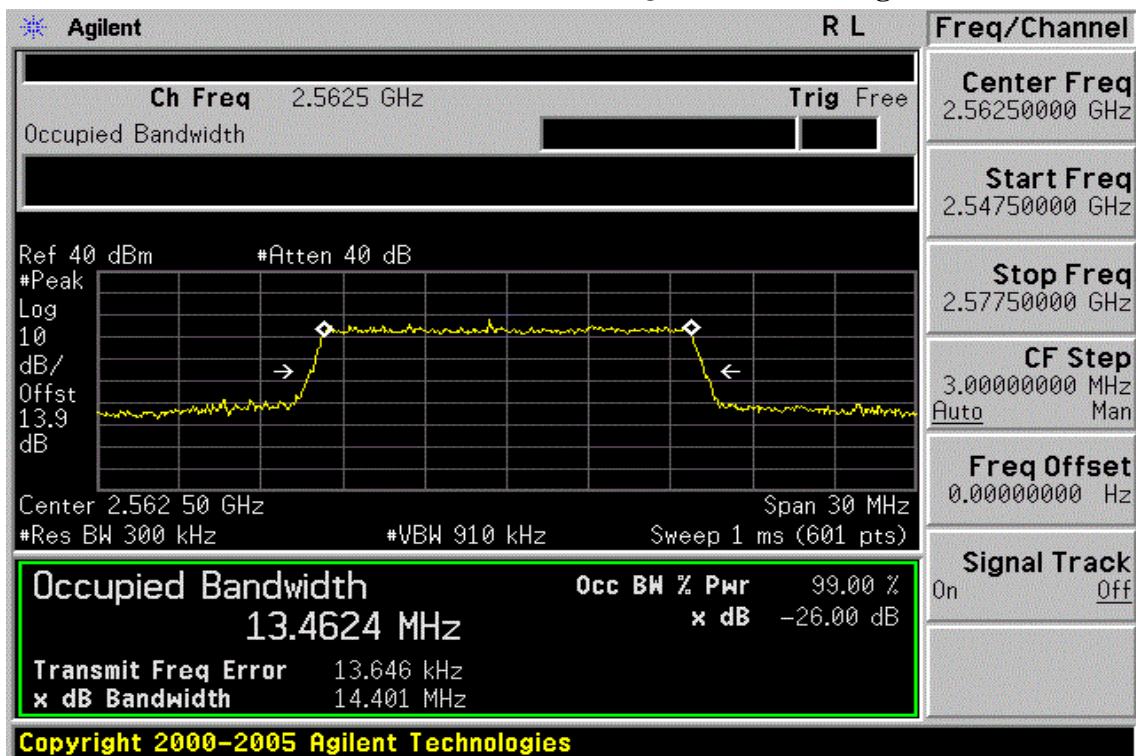
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15MHz BW LTE-Band 7 Channel Mid



15MHz BW LTE-Band 7 16QAM Channel High



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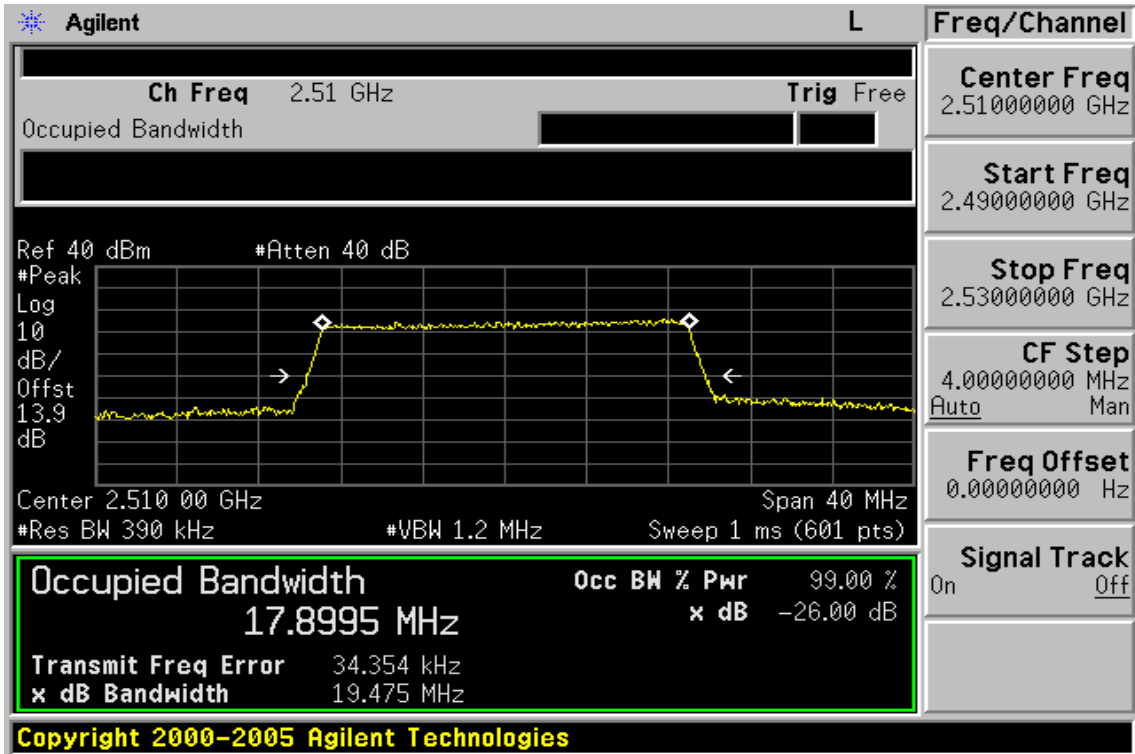
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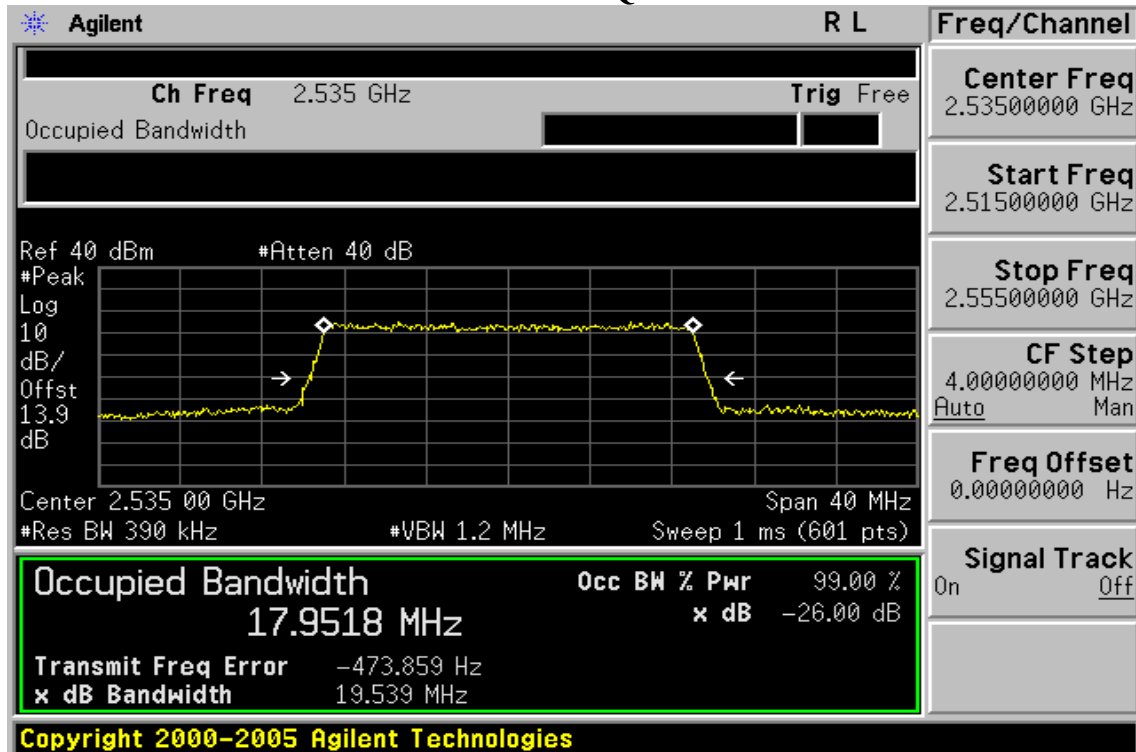
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20MHz BW LTE-Band 7 QPSK Channel Low



20MHz BW LTE-Band 7 QPSK Channel Mid



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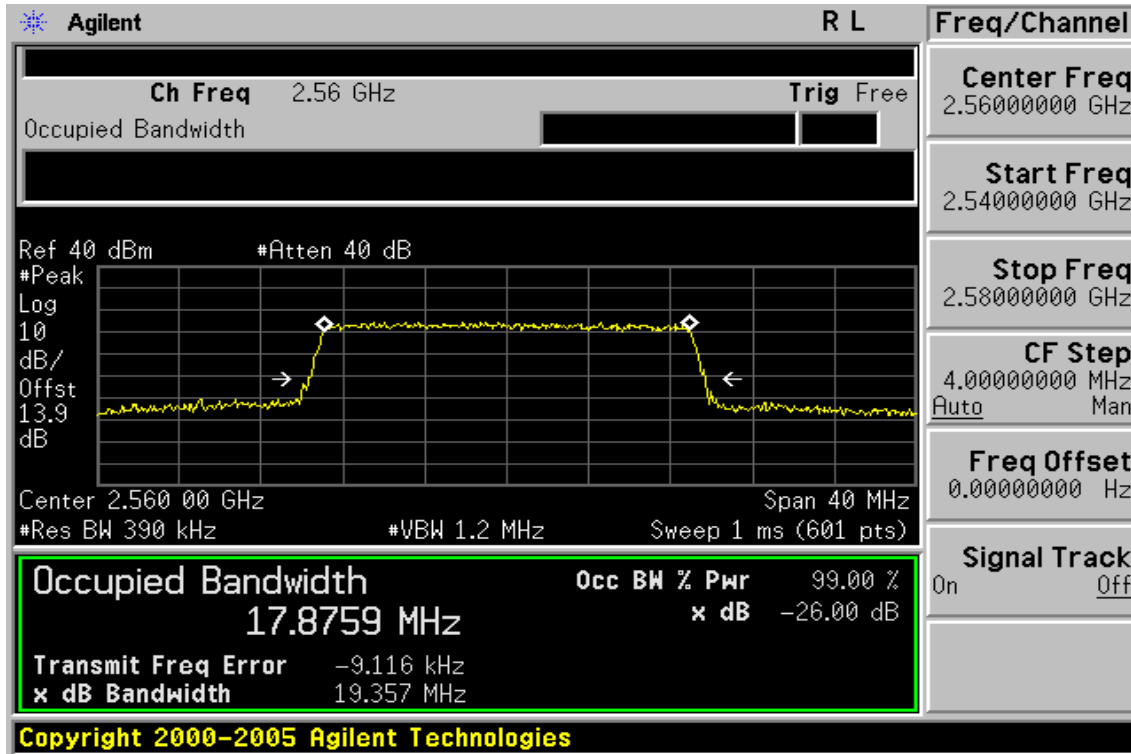
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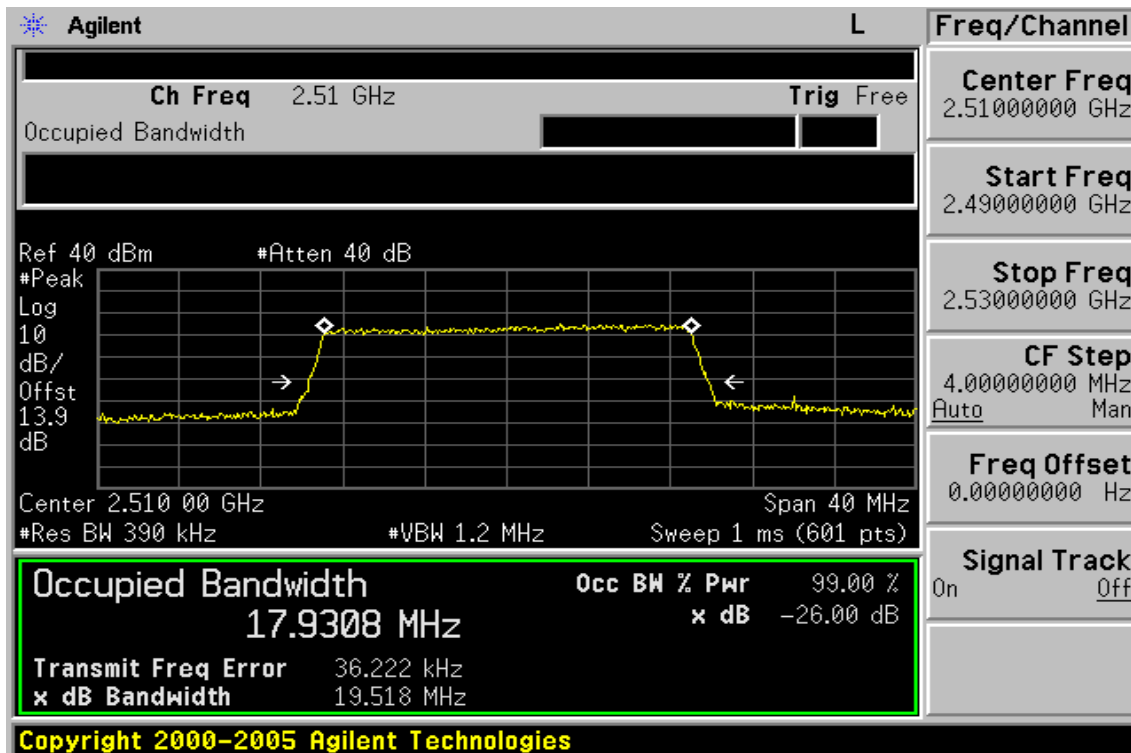
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20MHz BW LTE-Band 7 QPSK Channel High



20MHz BW LTE-Band 7 16QAM Channel Low



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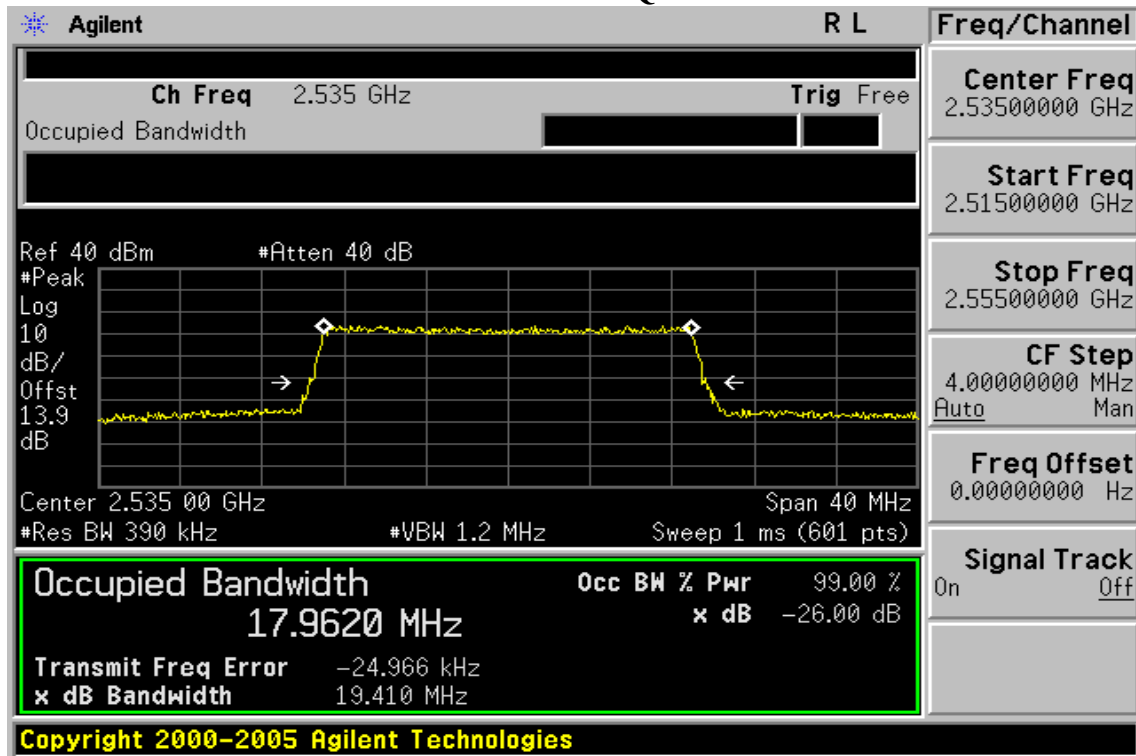
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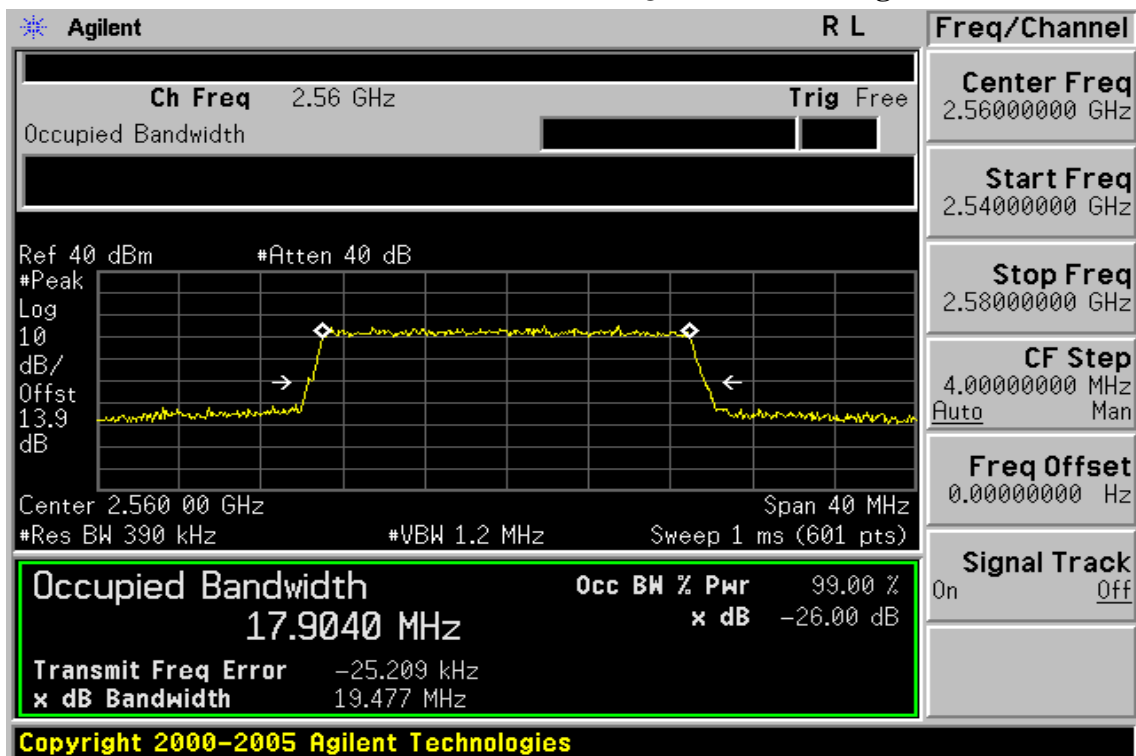
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20MHz BW LTE-Band 7 16QAM Channel Mid



20MHz BW LTE-Band 7 16QAM Channel High



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## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(g)(h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (m) (4) shall not be less than  $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

#### Band Edge Measurement:

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's 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 emissions are attenuated at least 26 dB below the transmitter power.

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## FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz 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; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). 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 emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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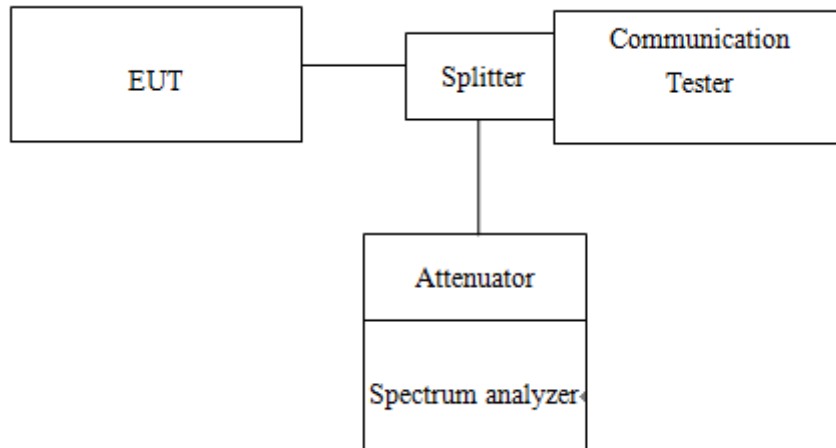
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## 9.2. Test SET-UP



## 9.3. Measurement Procedure

### Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

### Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW  $\geq$  1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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**9.4. Measurement Equipment Used**

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

**9.5. Measurement Result:**

Refer to next pages.

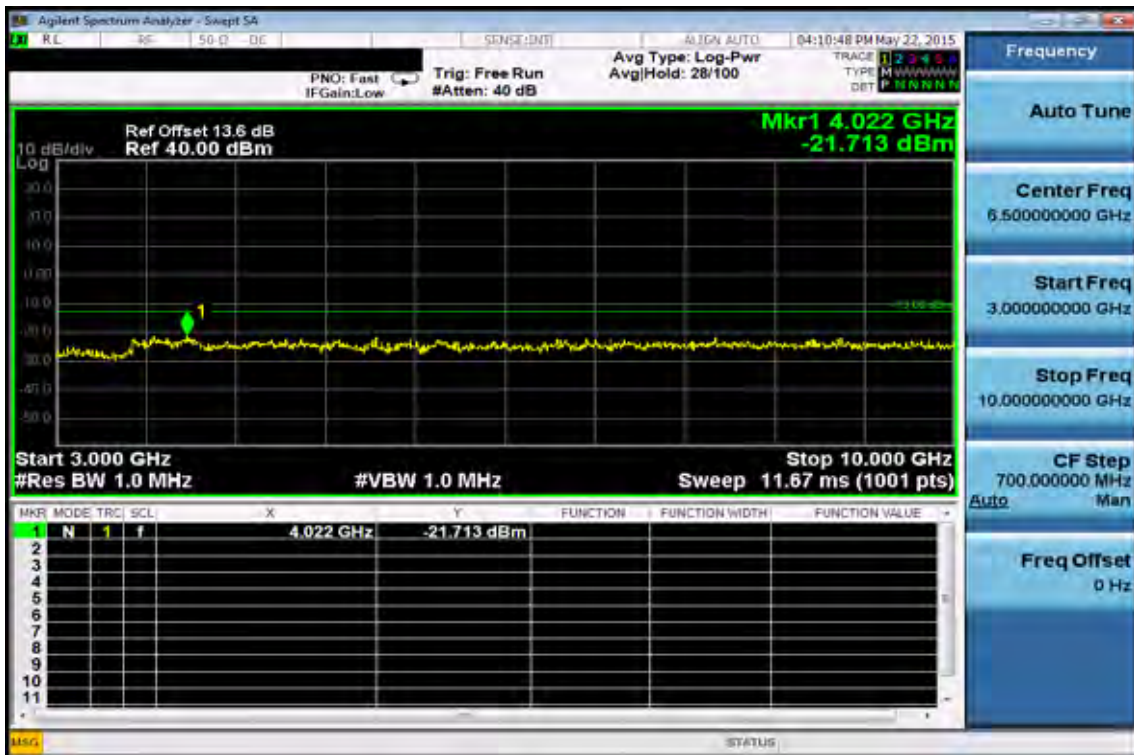
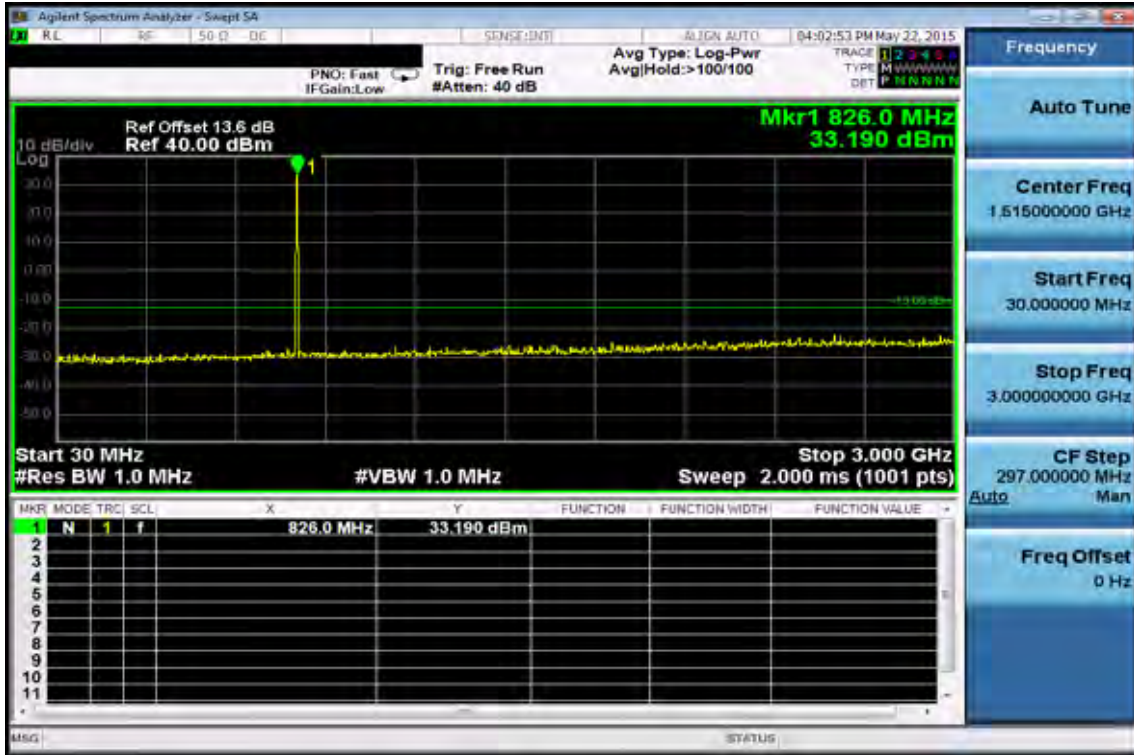
**NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.**

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Out of Band emission at antenna terminals – GSM 850 Channel Lowest



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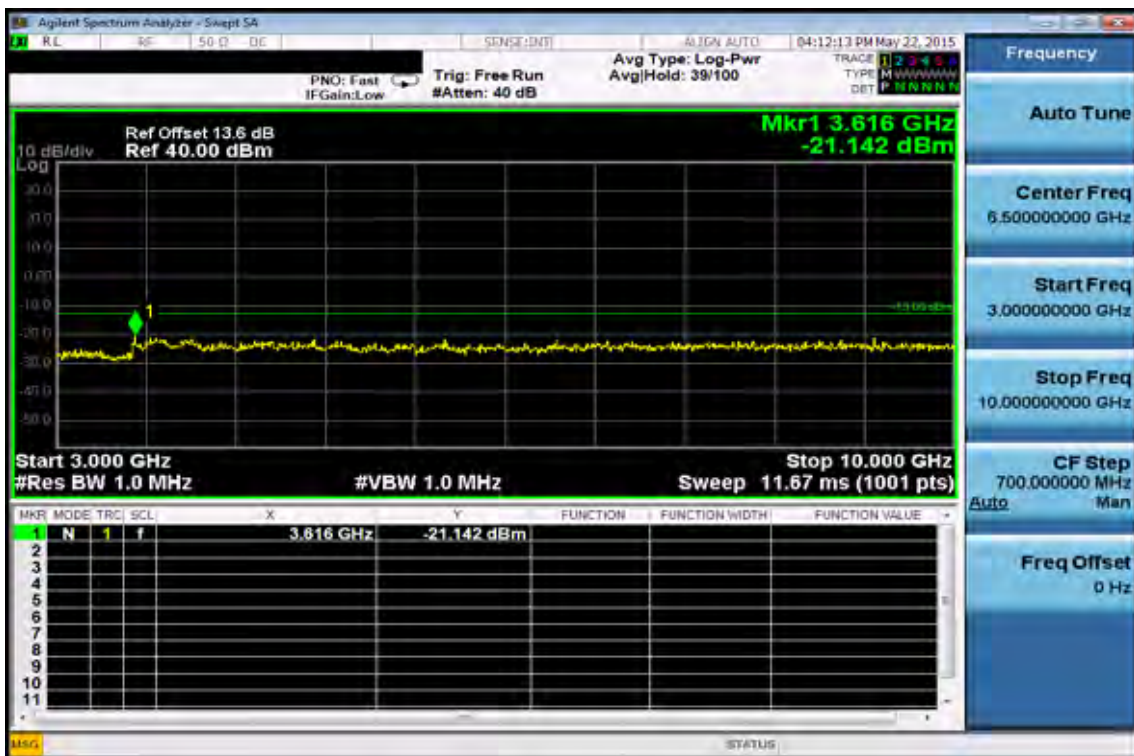
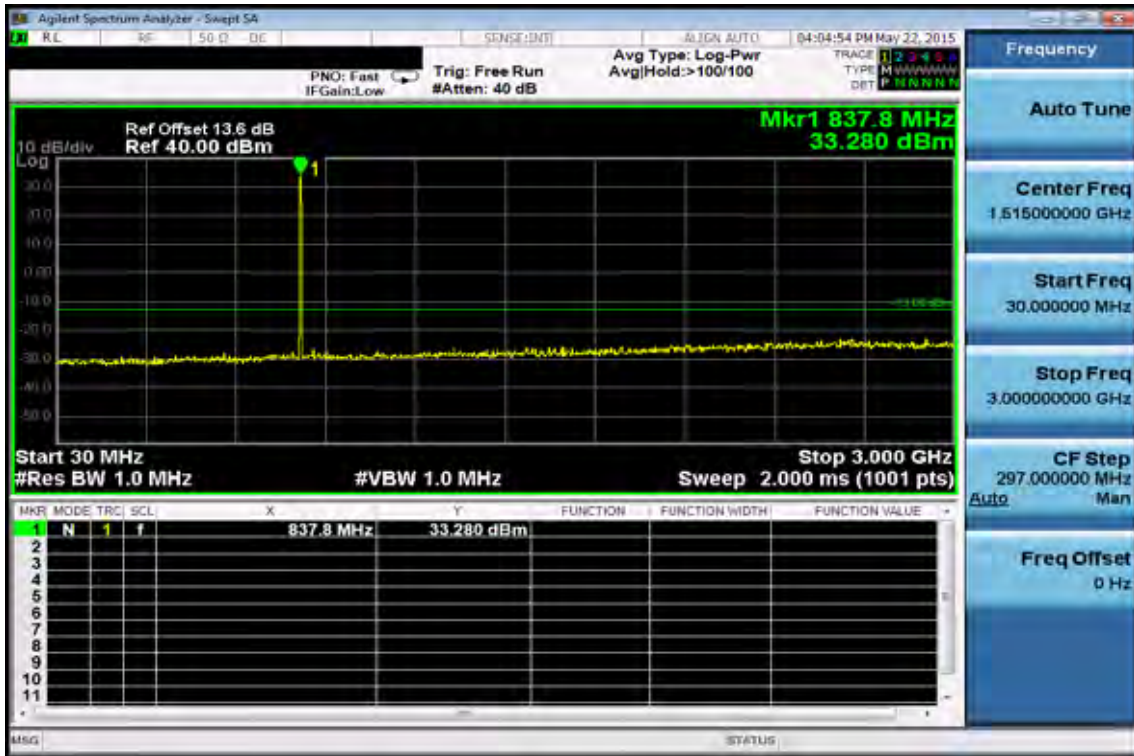
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Out of Band emission at antenna terminals – GSM 850 Channel Mid



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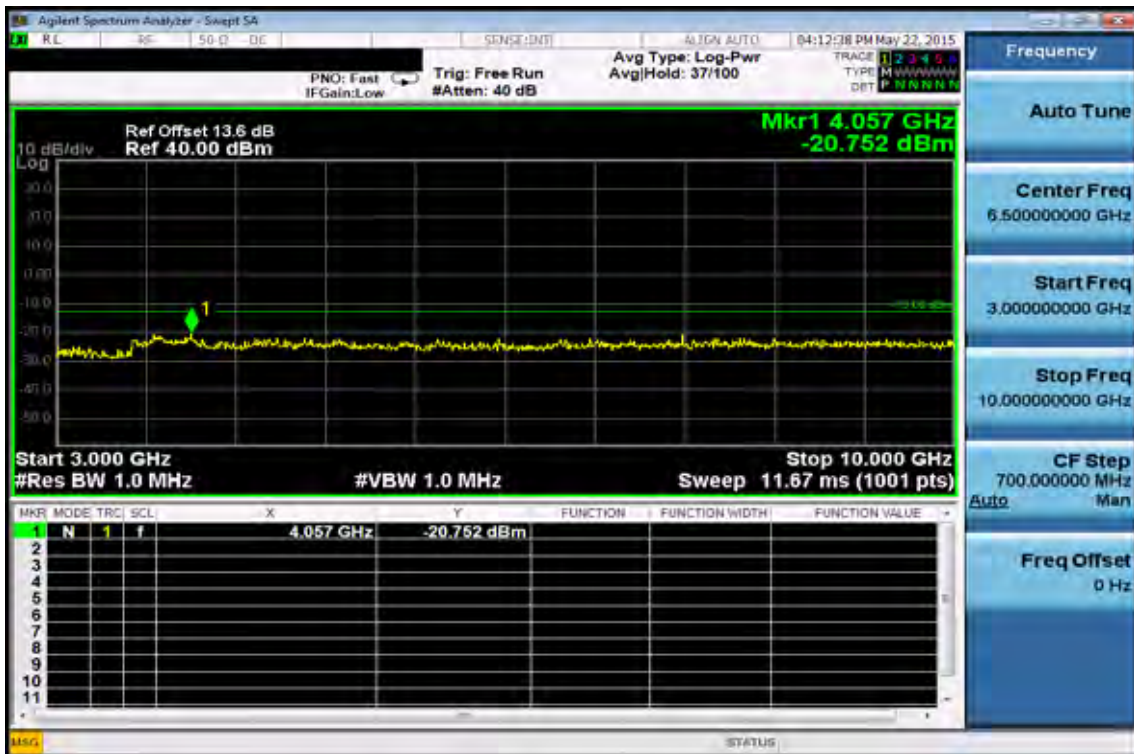
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Out of Band emission at antenna terminals – GSM 850 Channel Highest



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**Band edge emission at antenna terminals – GSM 850 Channel Lowest**



**Band edge emission at antenna terminals – GSM 850 Channel Highest**



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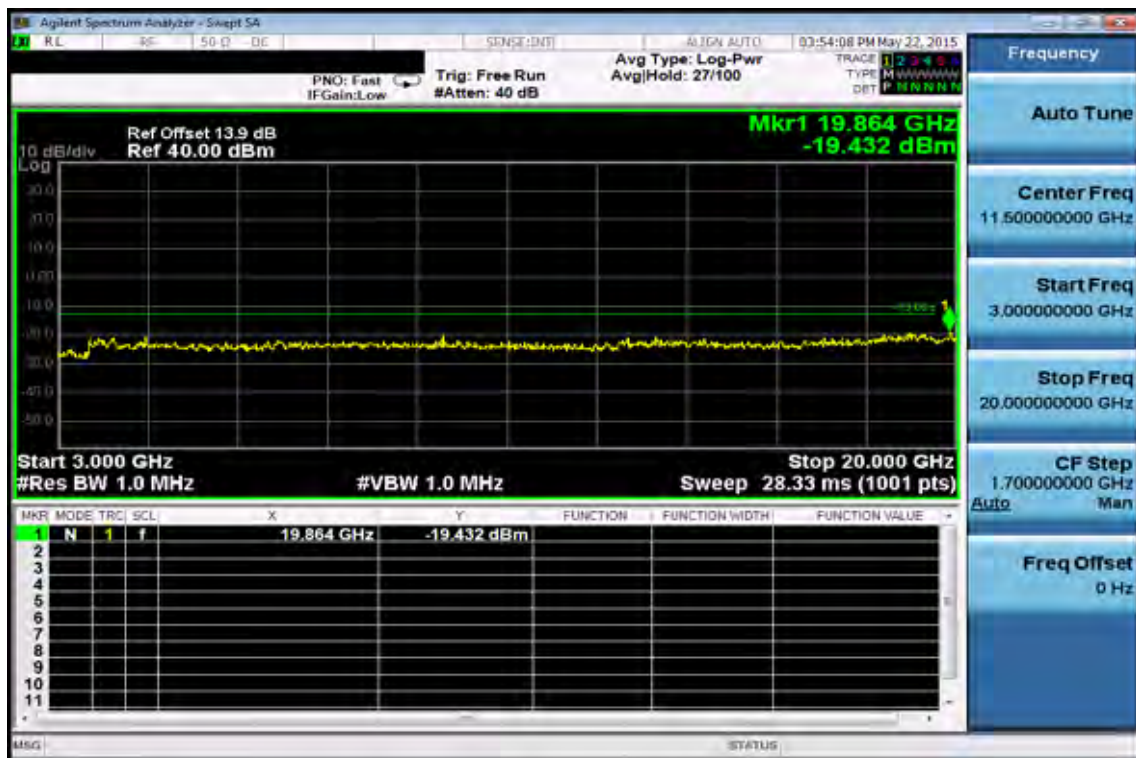
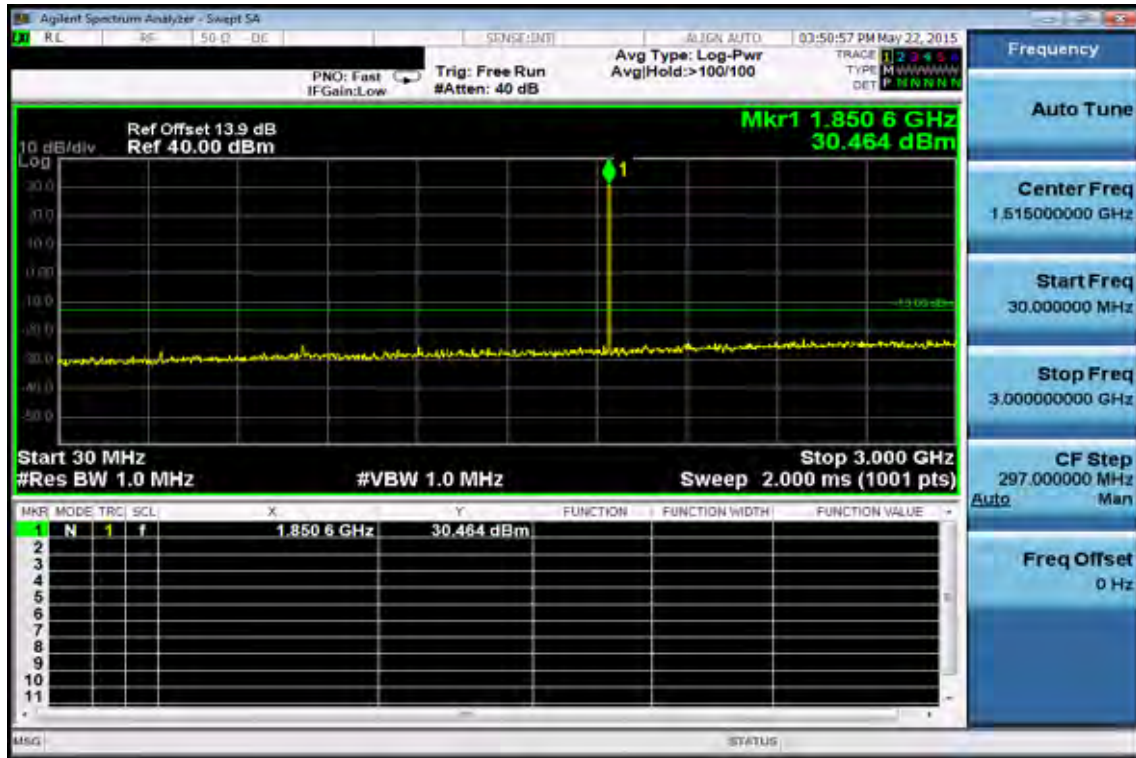
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Out of Band emission at antenna terminals – GSM 1900 Channel Lowest

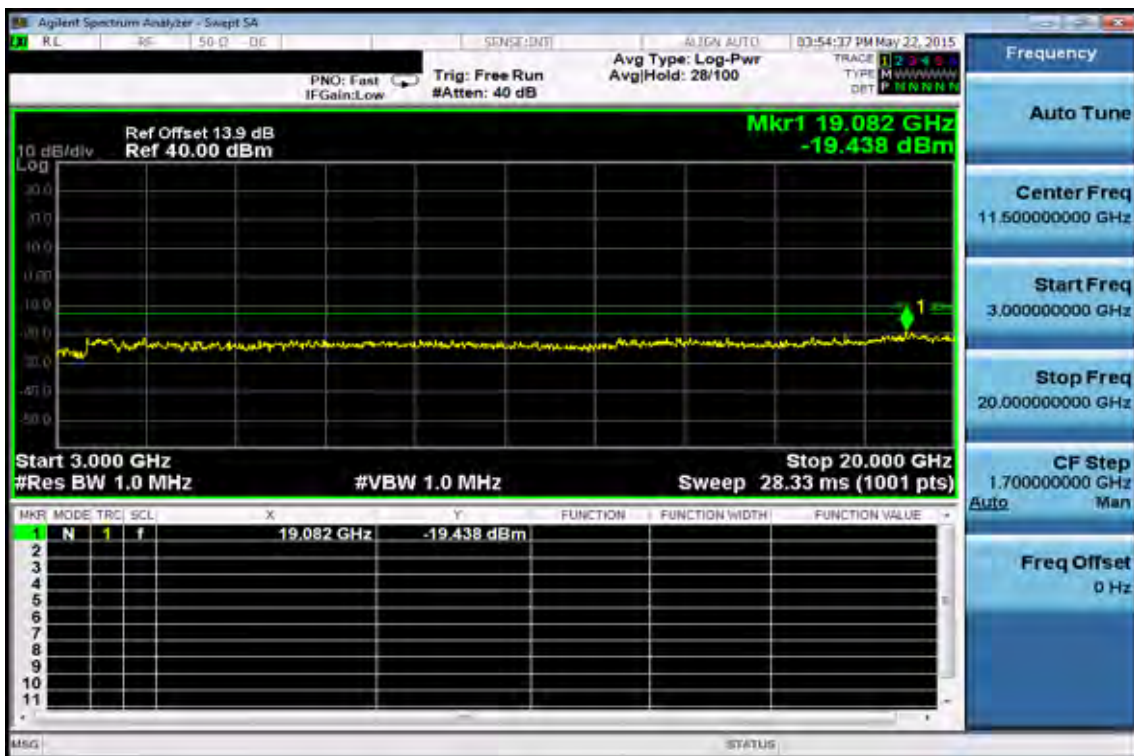


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Out of Band emission at antenna terminals – GSM 1900 Channel Mid



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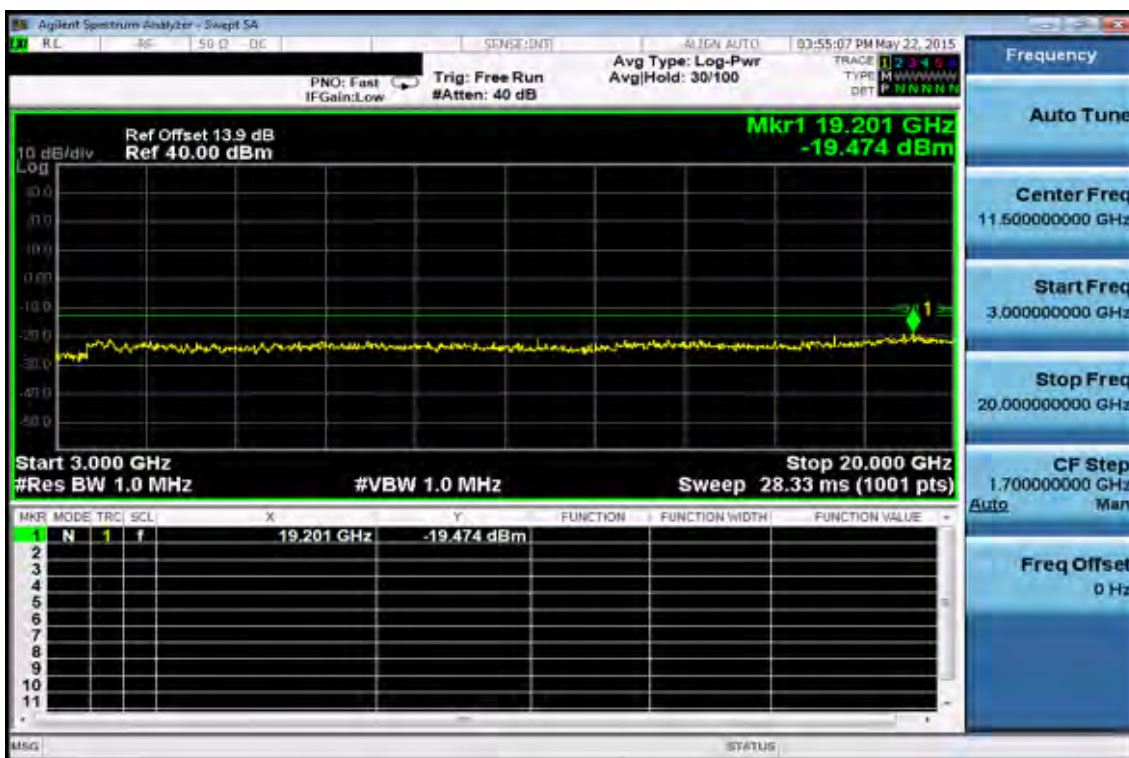
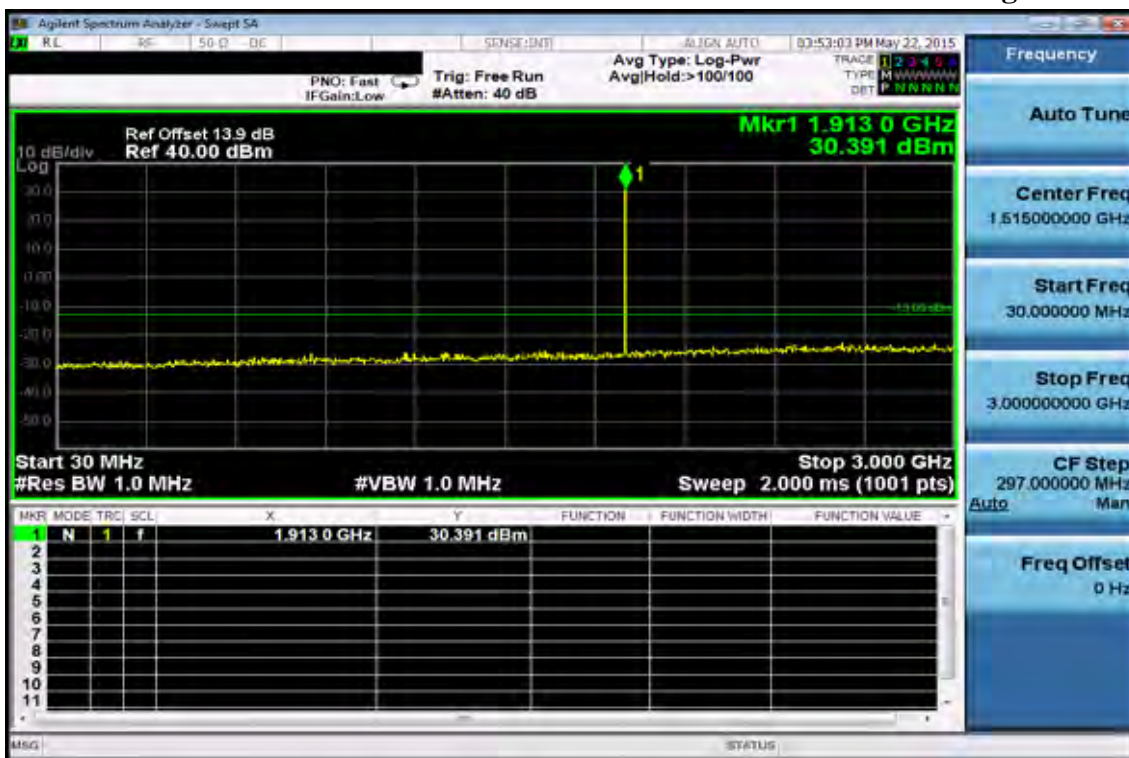
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Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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**Band edge emission at antenna terminals – GSM 1900 Channel Lowest**



**Band edge emission at antenna terminals – GSM 1900 Channel Highest**



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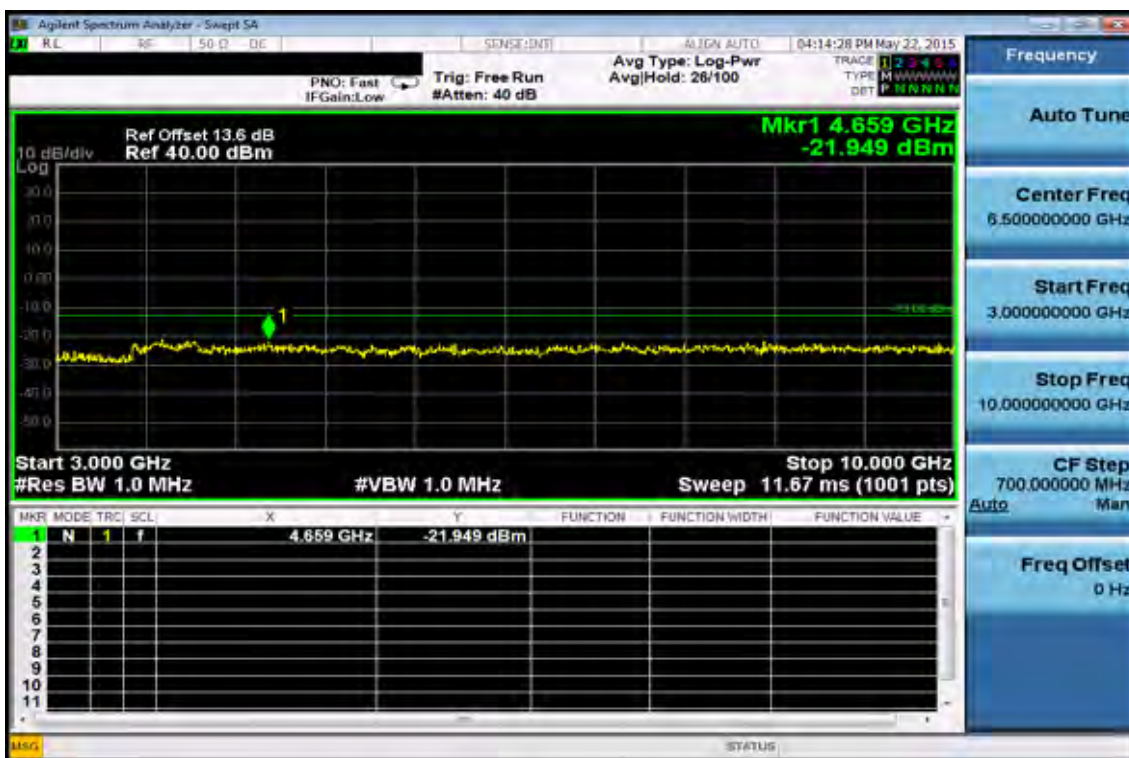
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Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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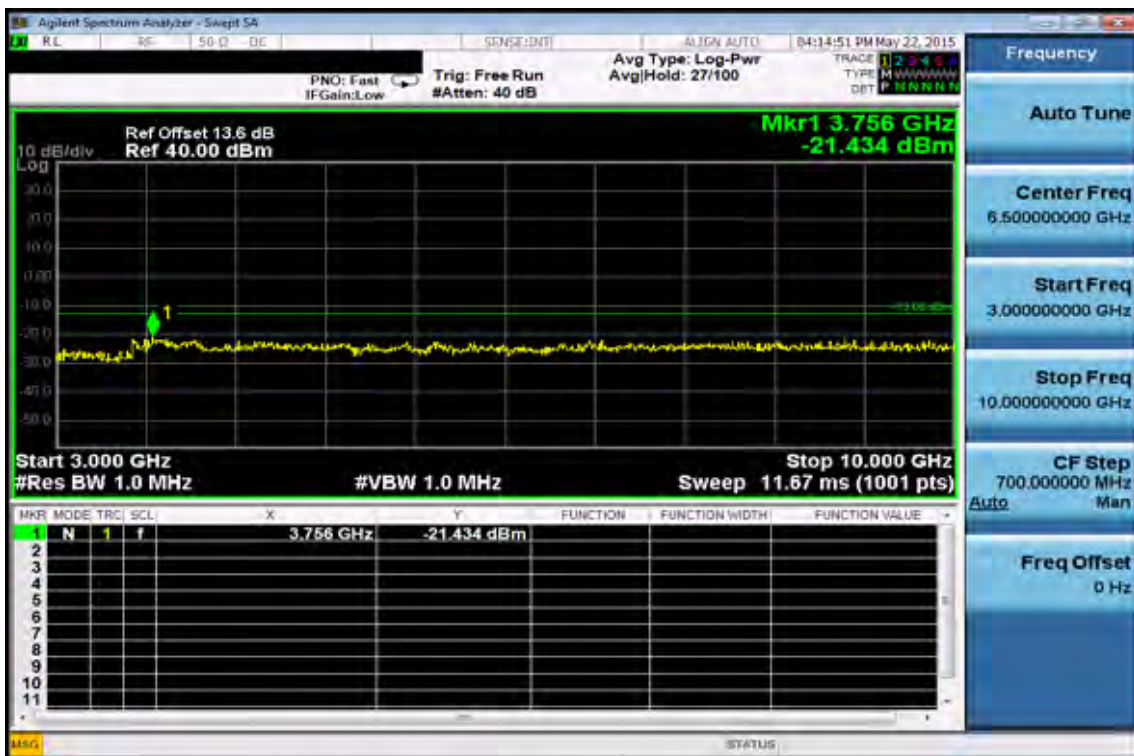
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Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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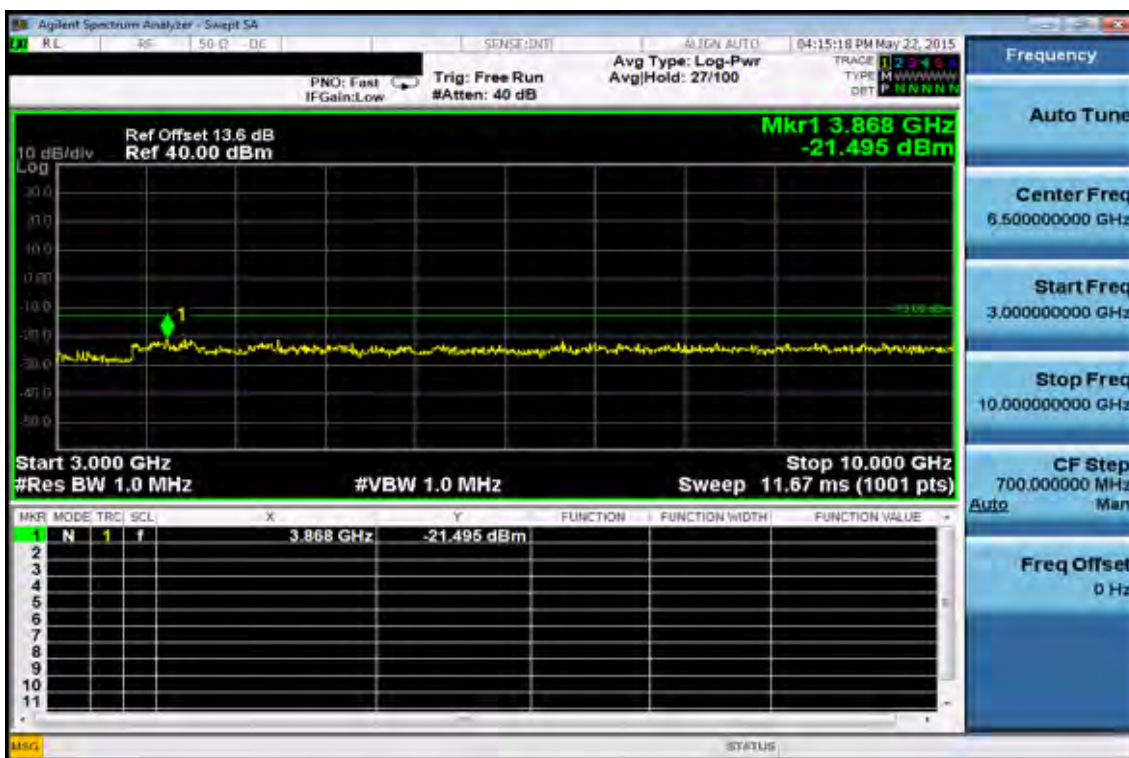
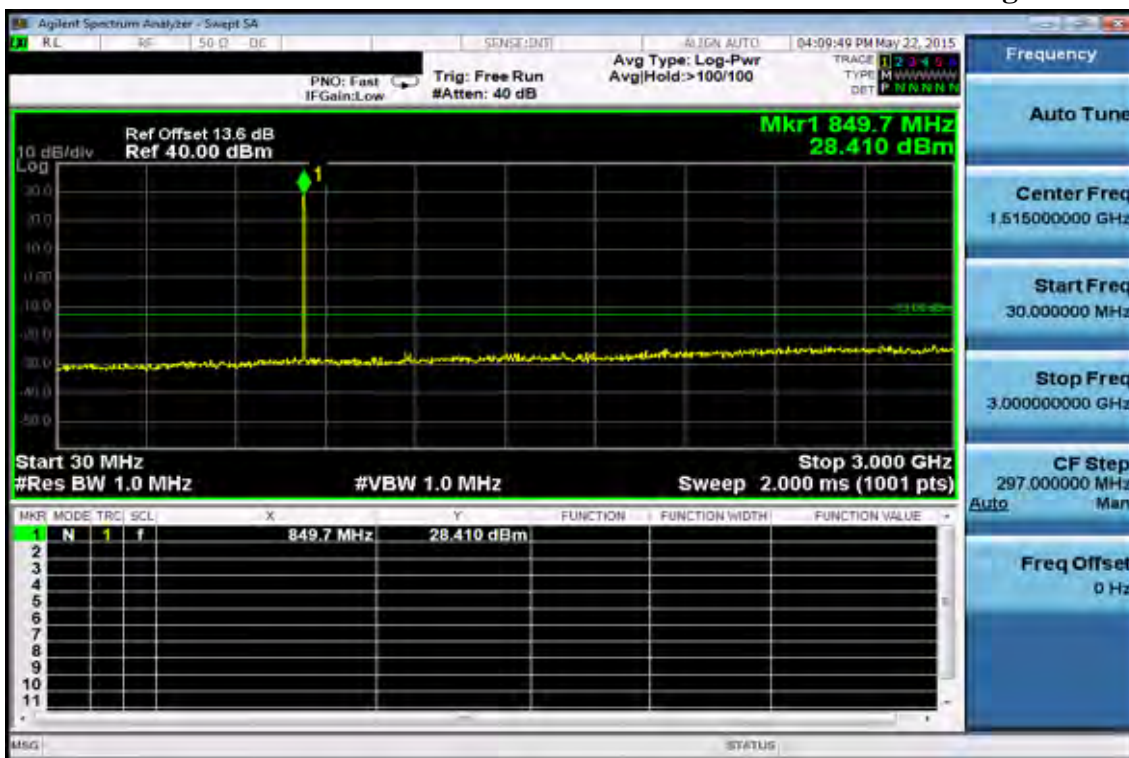
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Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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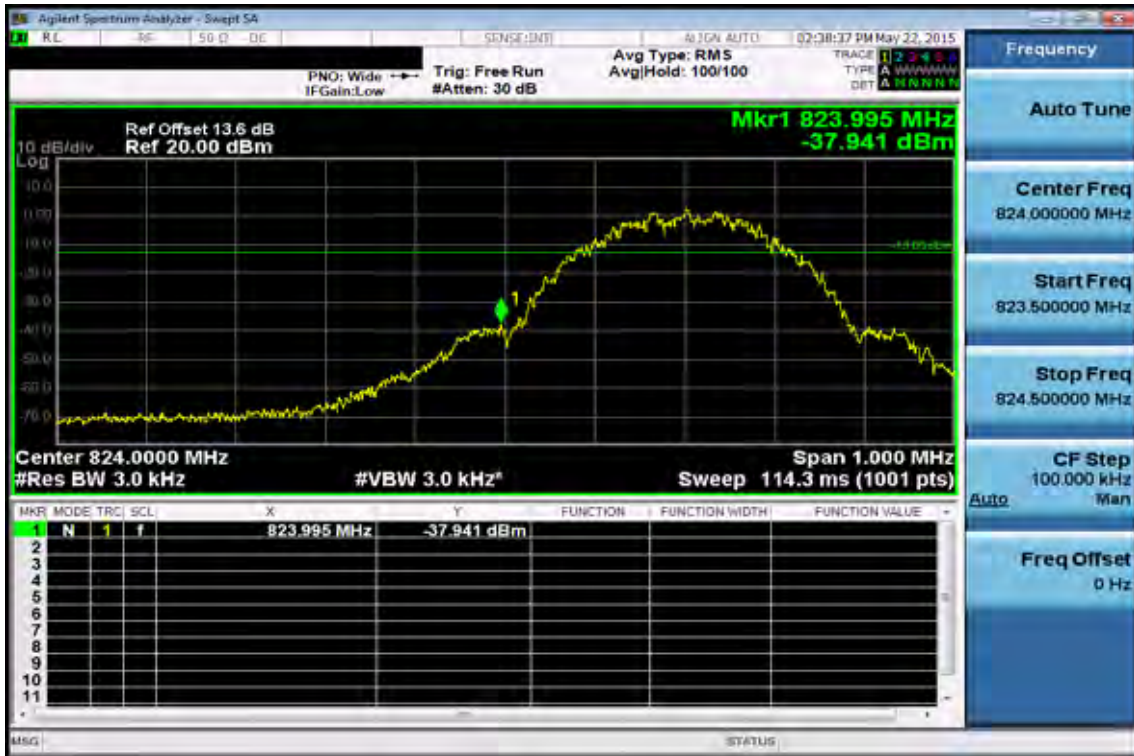
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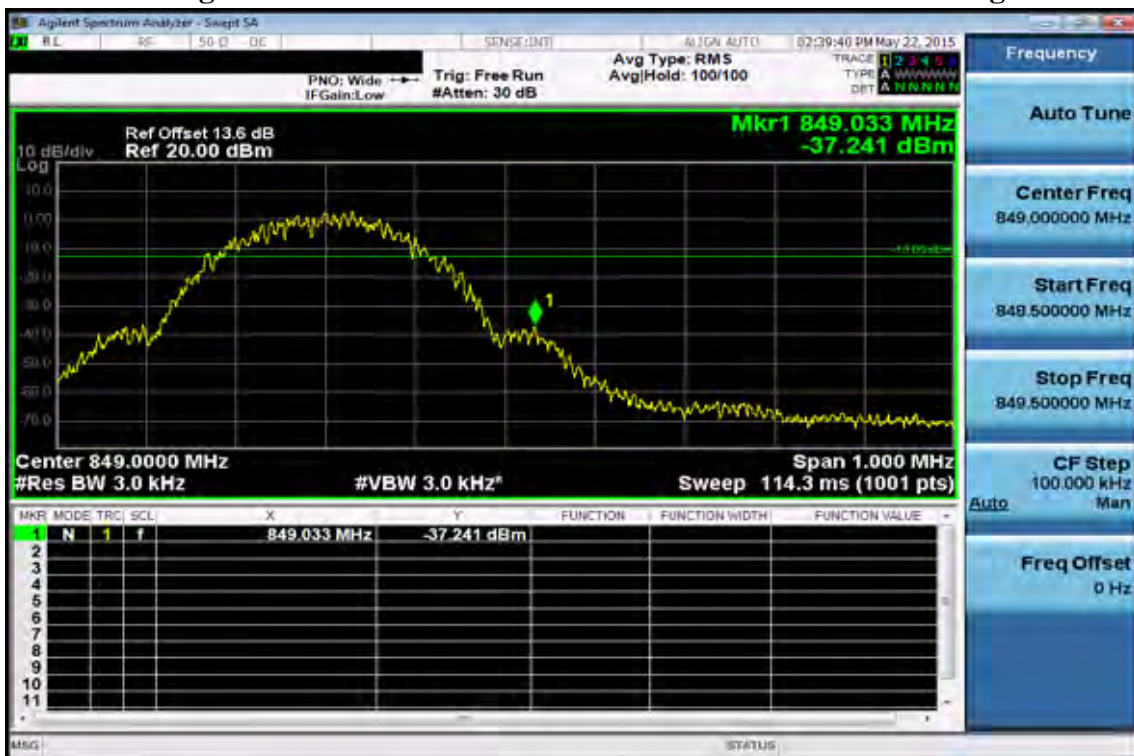
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**Band edge emission at antenna terminals – EDGE 850 Channel Lowest**



**Band edge emission at antenna terminals – EDGE 850 Channel Highest**



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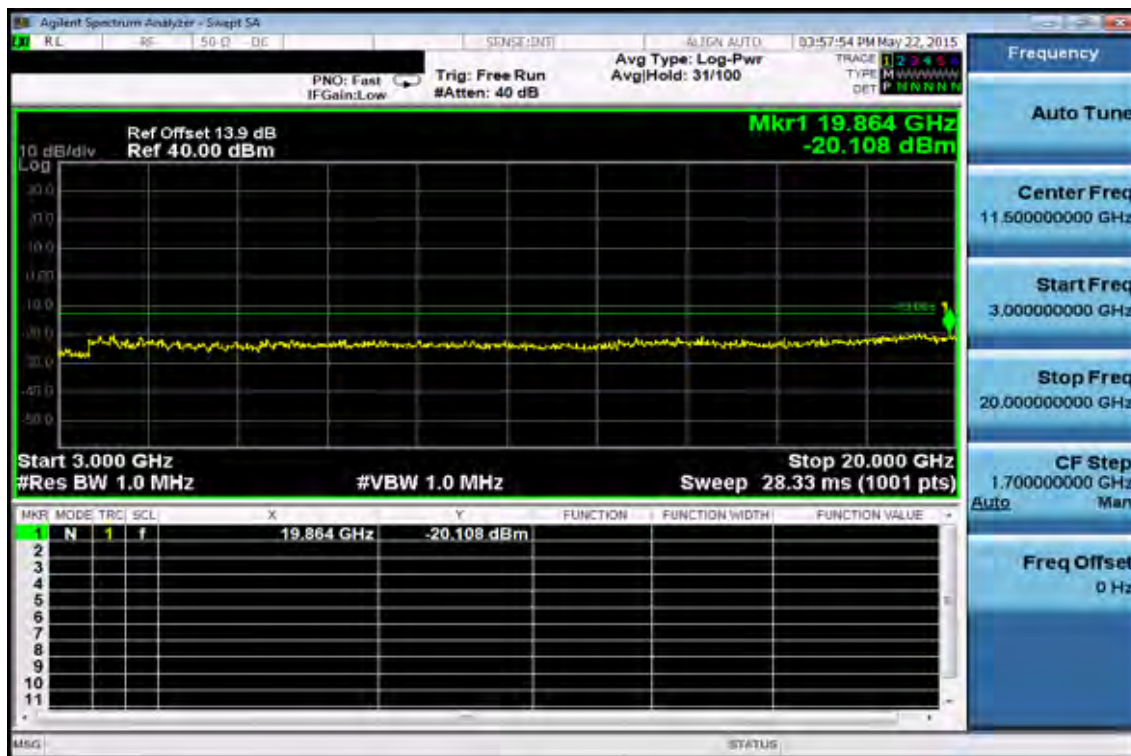
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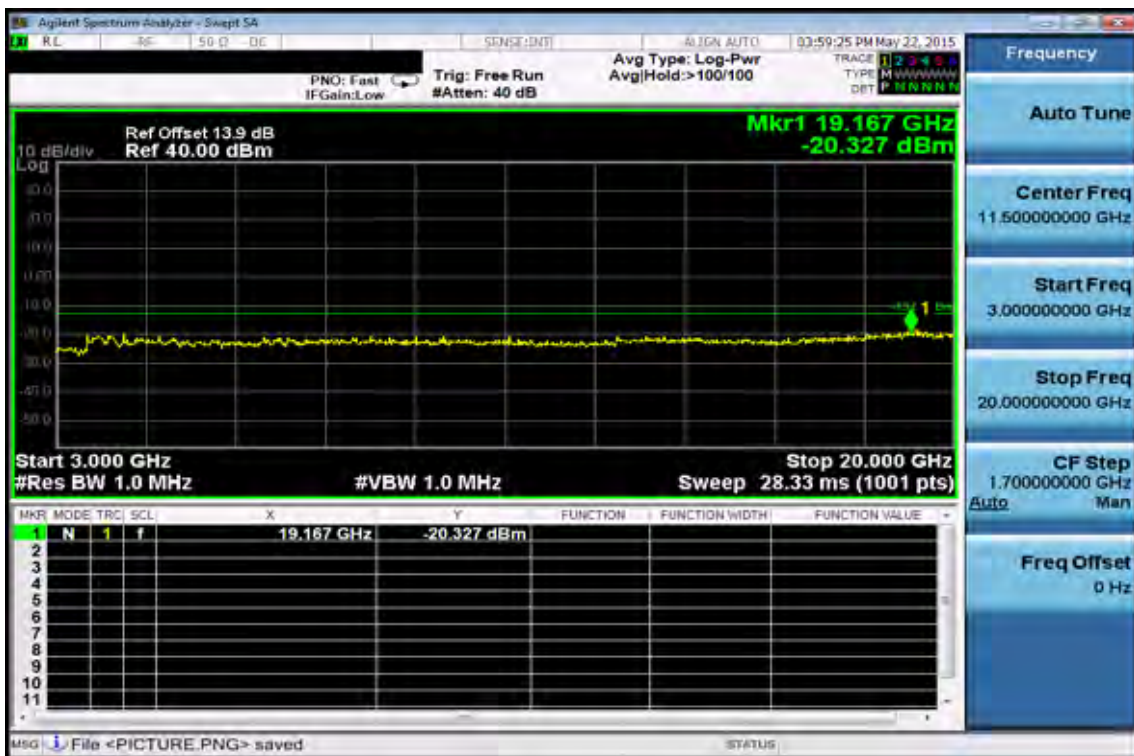
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Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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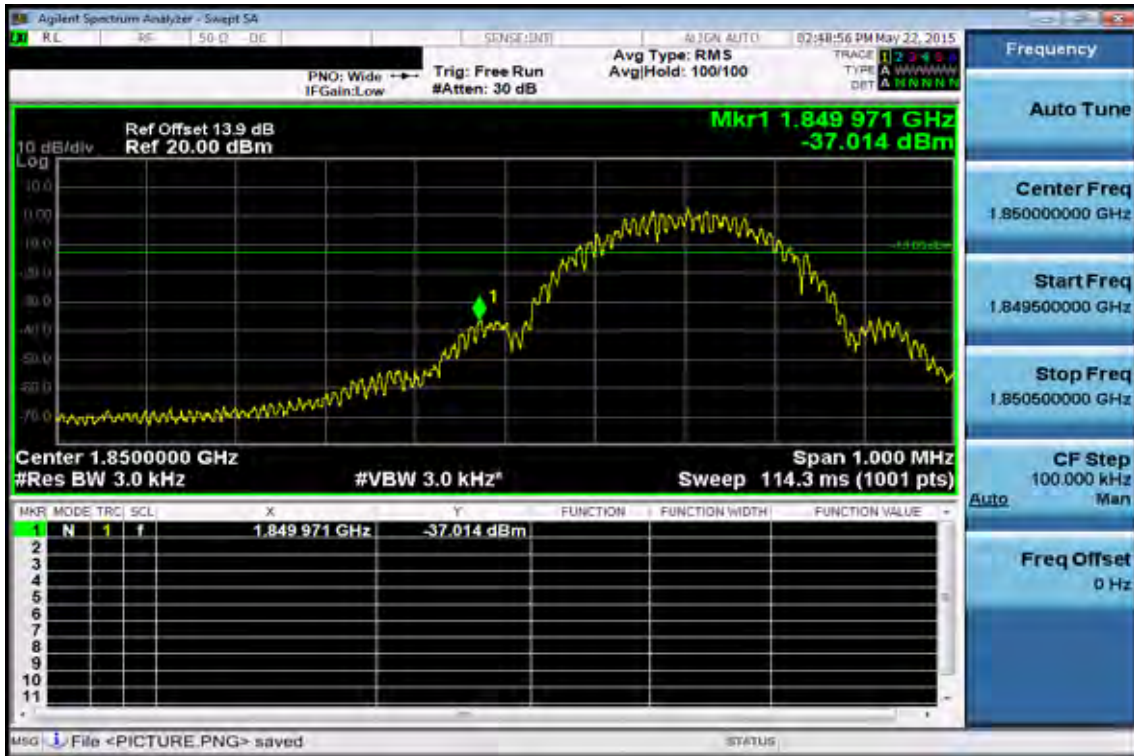
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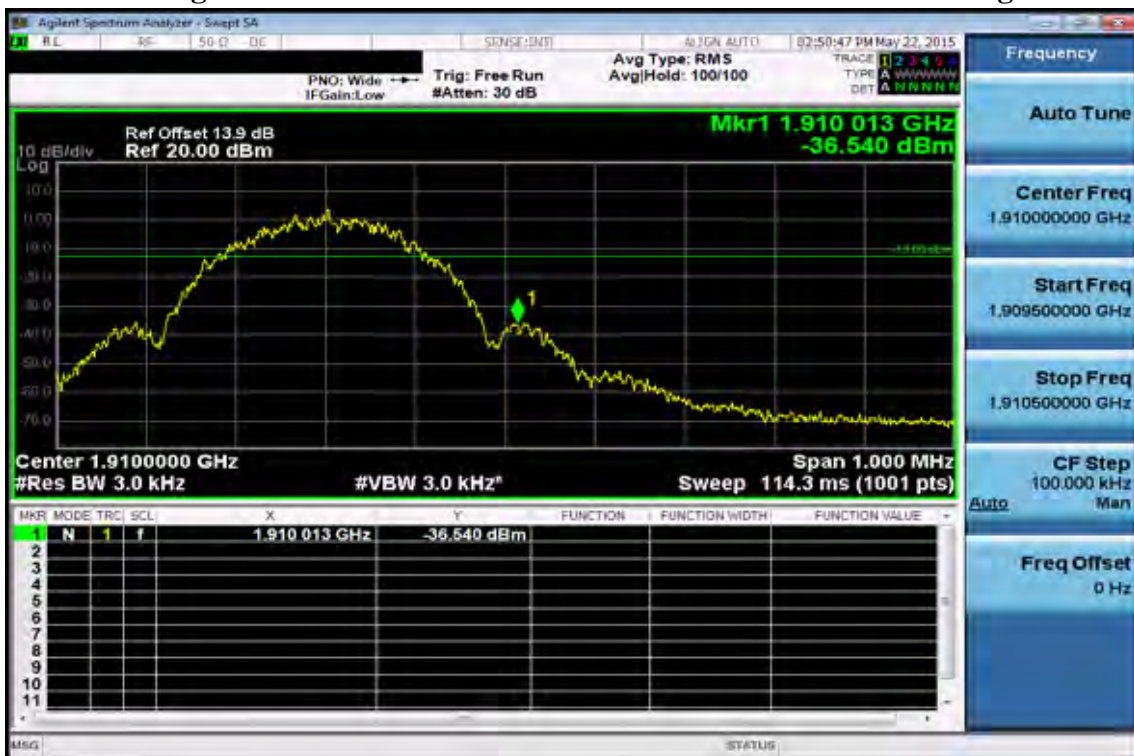
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**Band edge emission at antenna terminals – EDGE 1900 Channel Lowest**



**Band edge emission at antenna terminals – EDGE 1900 Channel Highest**



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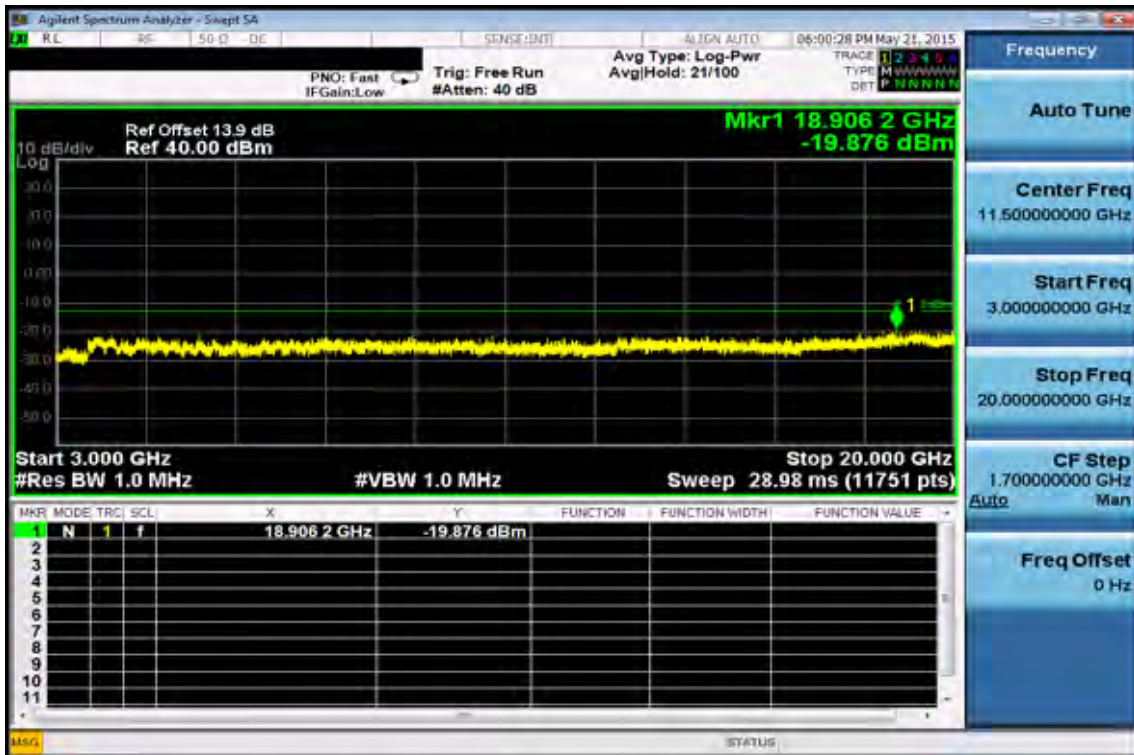
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Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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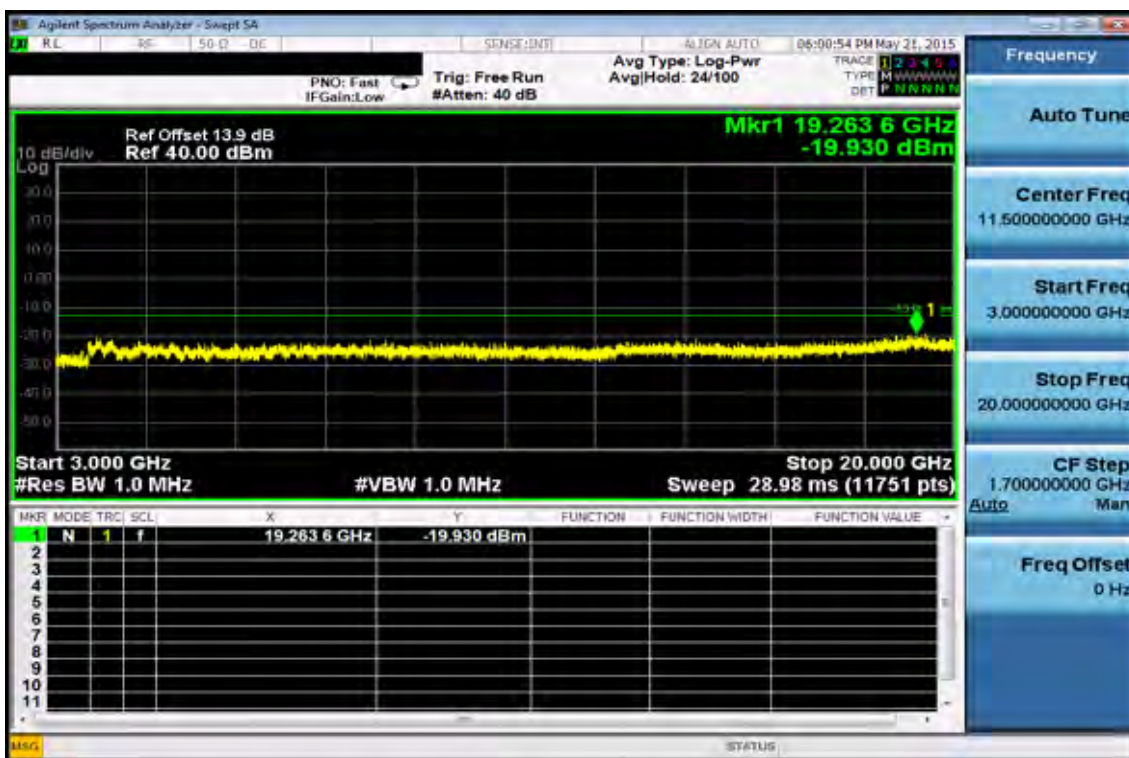
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Out of Band emission at antenna terminals – WCDMA II Channel Mid



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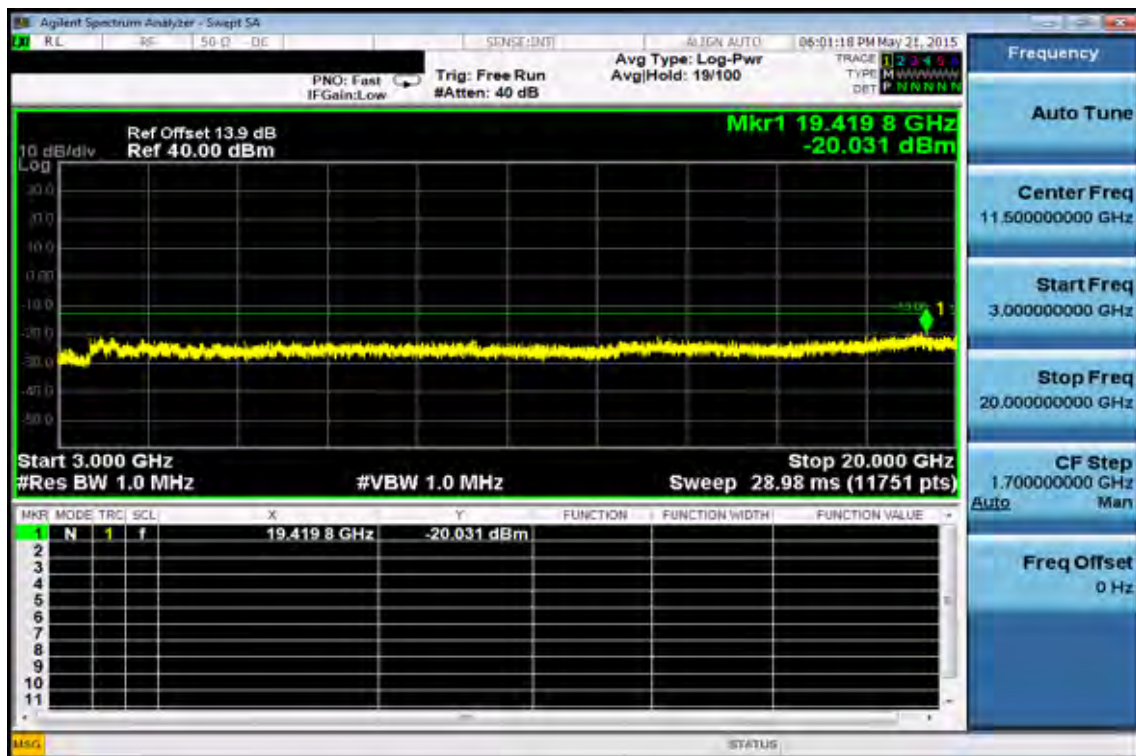
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Out of Band emission at antenna terminals – WCDMA II Channel Highest



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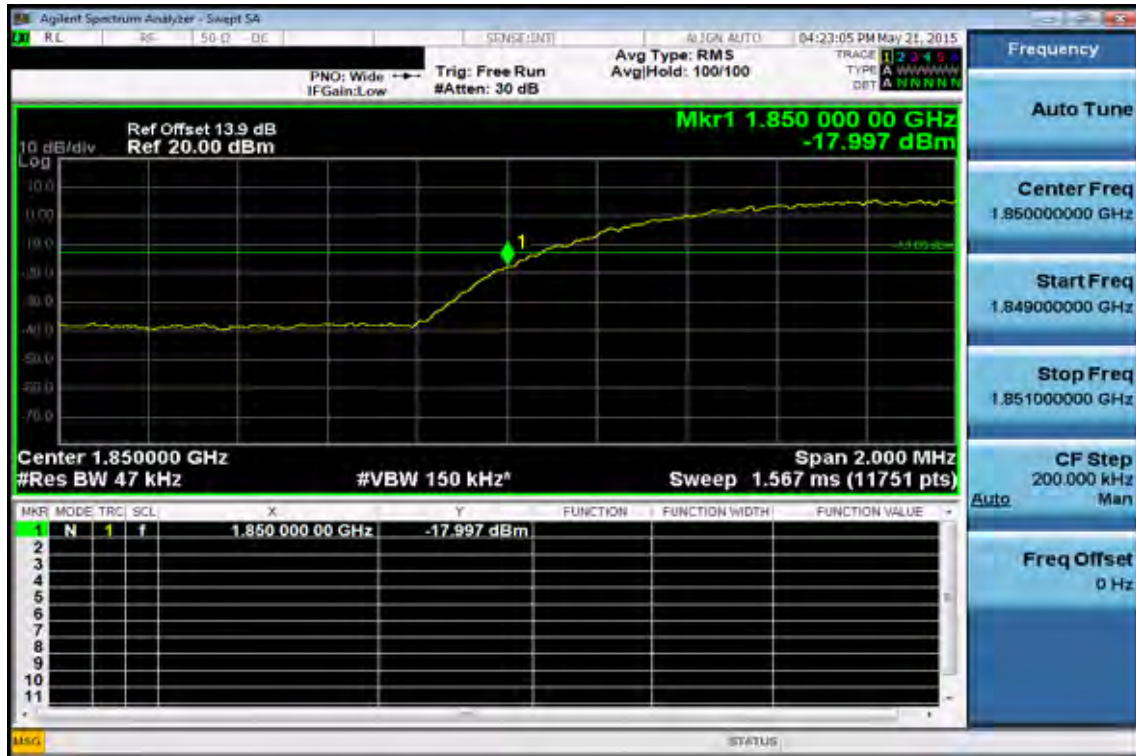
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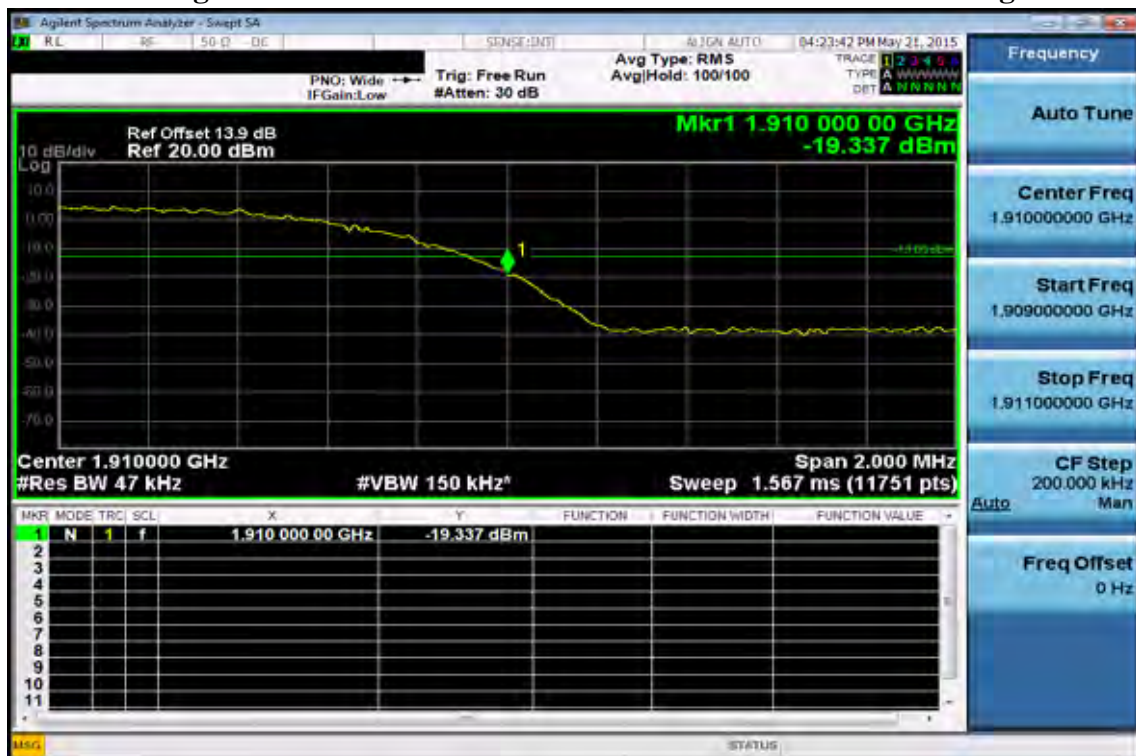
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**Band edge emission at antenna terminals – WCDMA II Channel Lowest**



**Band edge emission at antenna terminals – WCDMA II Channel Highest**

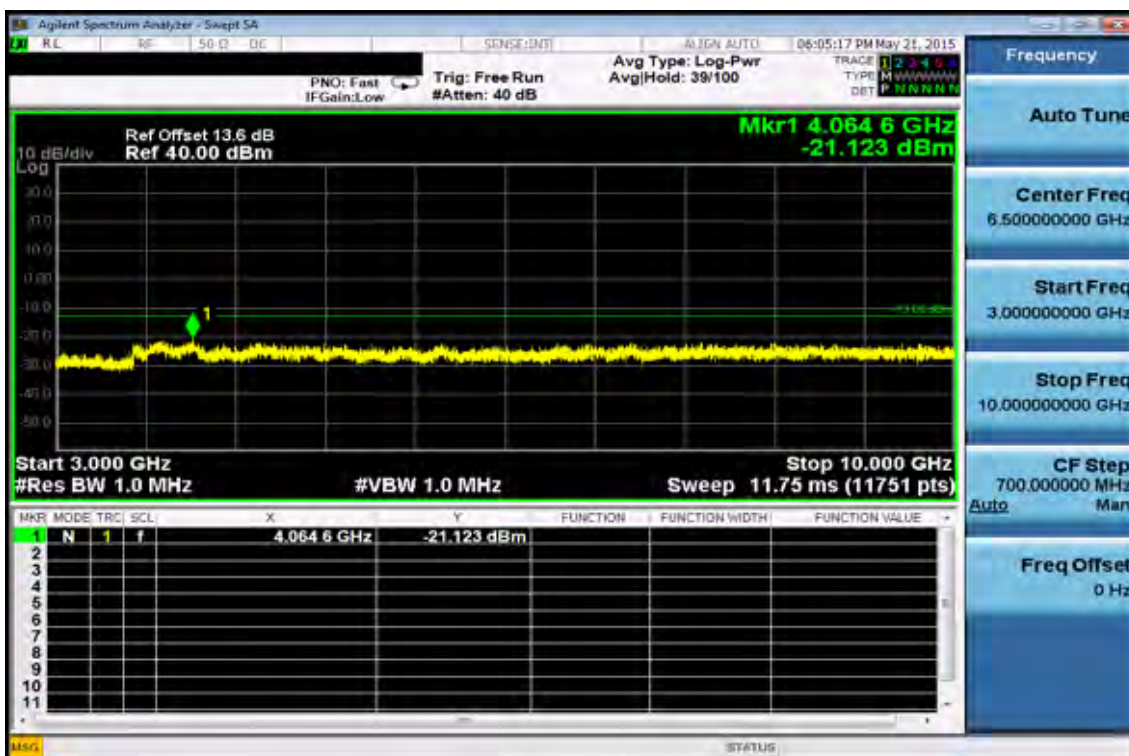


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Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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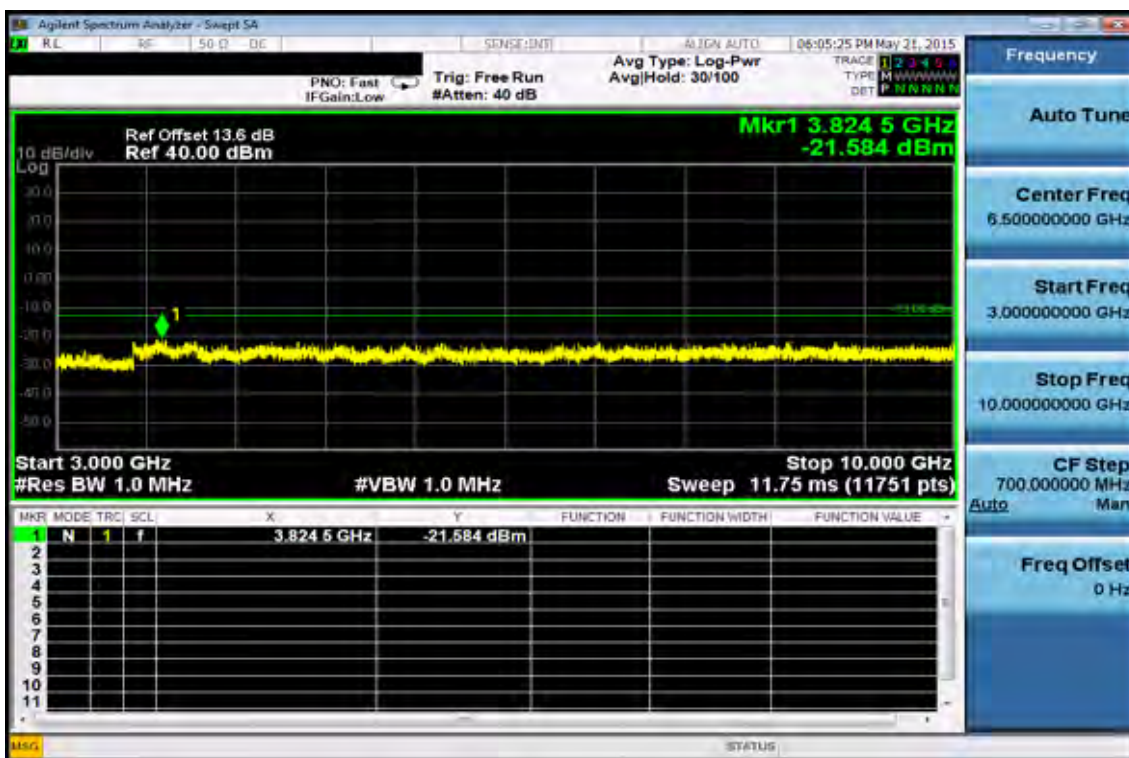
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Out of Band emission at antenna terminals – WCDMA V Channel Mid



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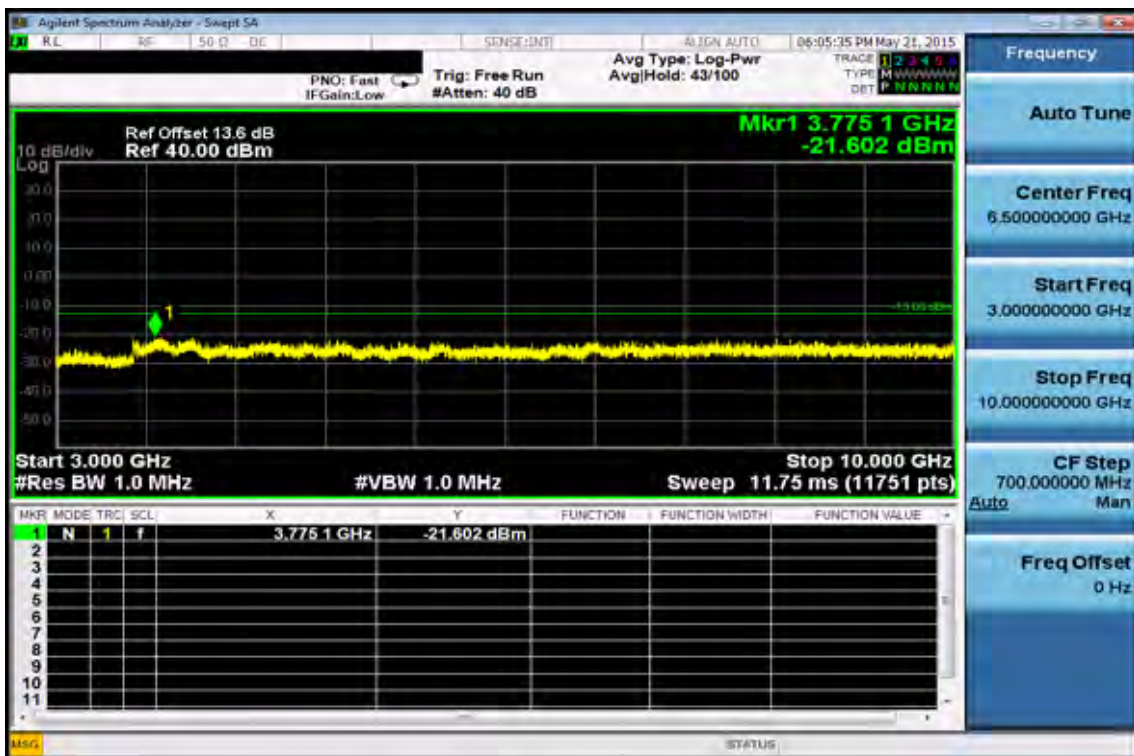
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Out of Band emission at antenna terminals – WCDMA V Channel Highest



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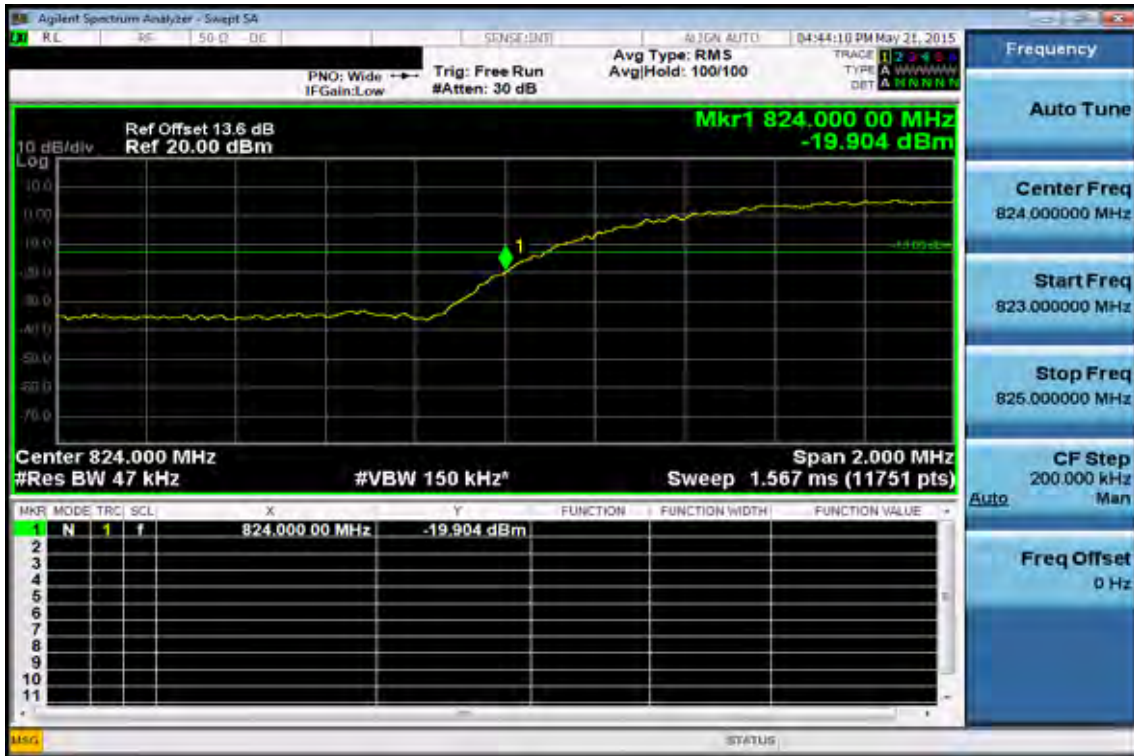
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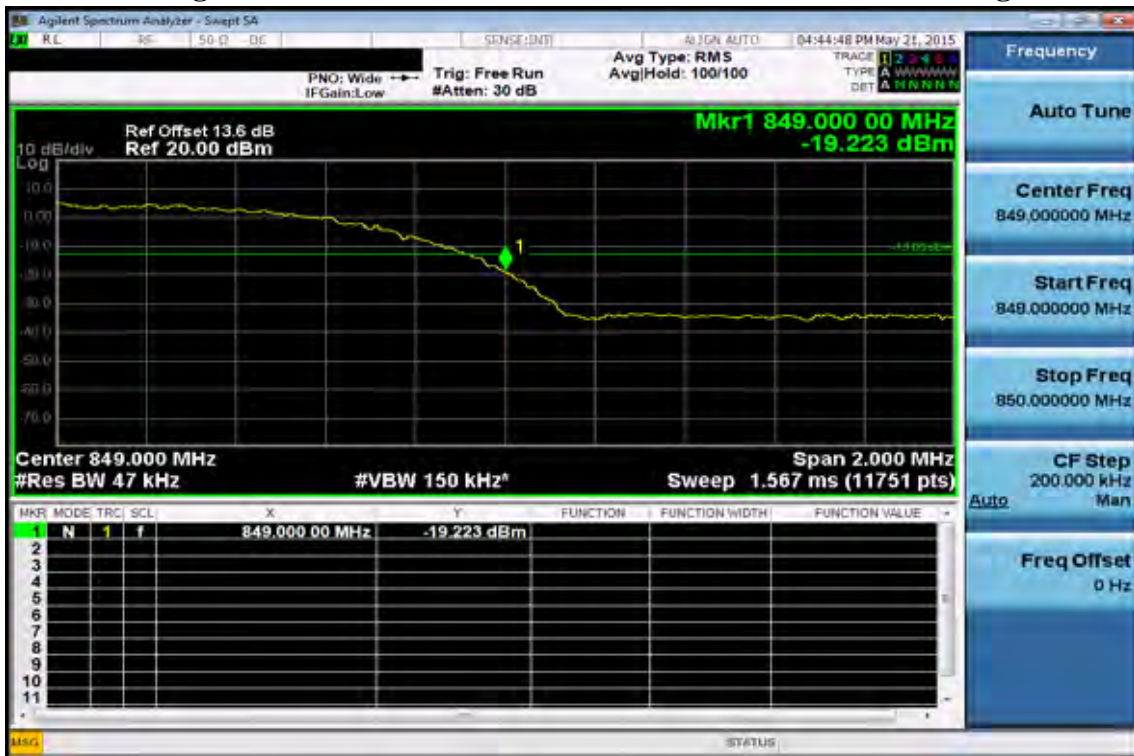
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**Band edge emission at antenna terminals – WCDMA V Channel Lowest**



**Band edge emission at antenna terminals – WCDMA V Channel Highest**

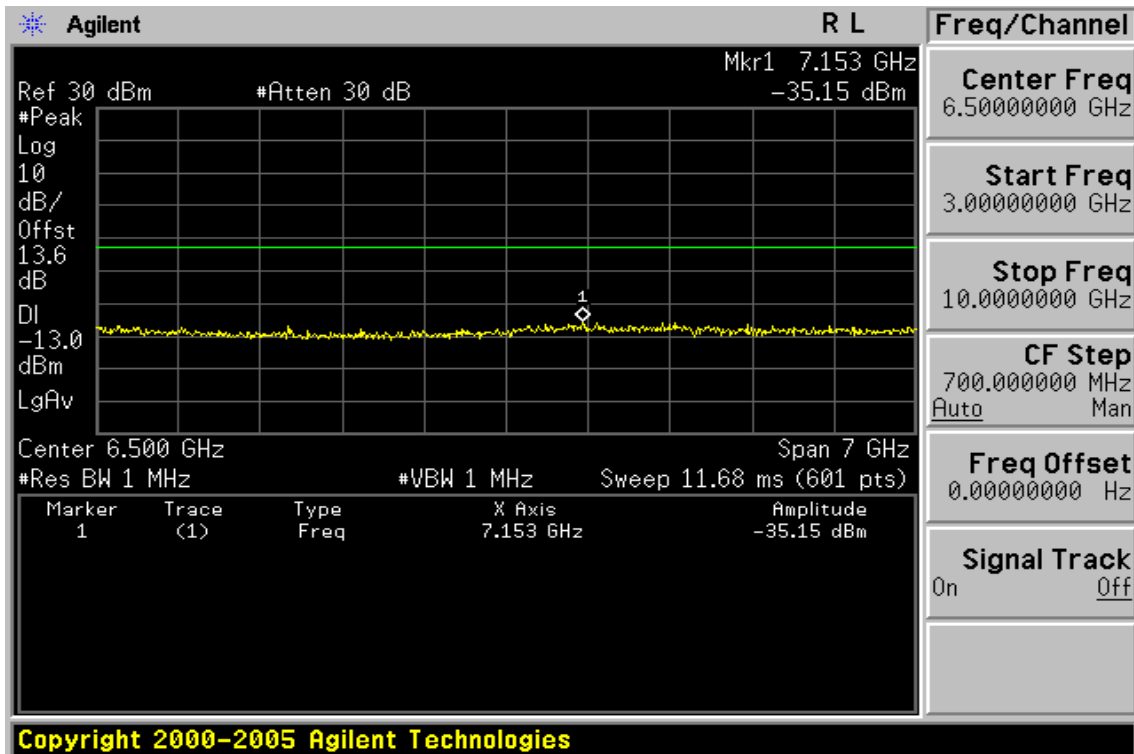
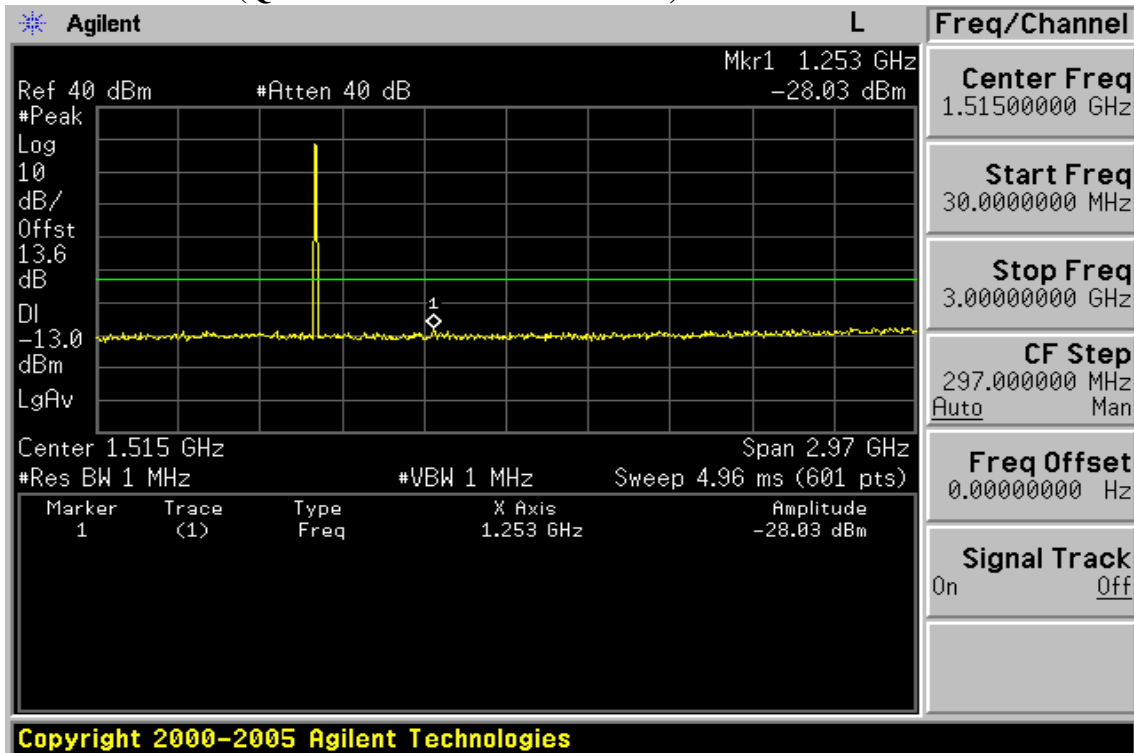


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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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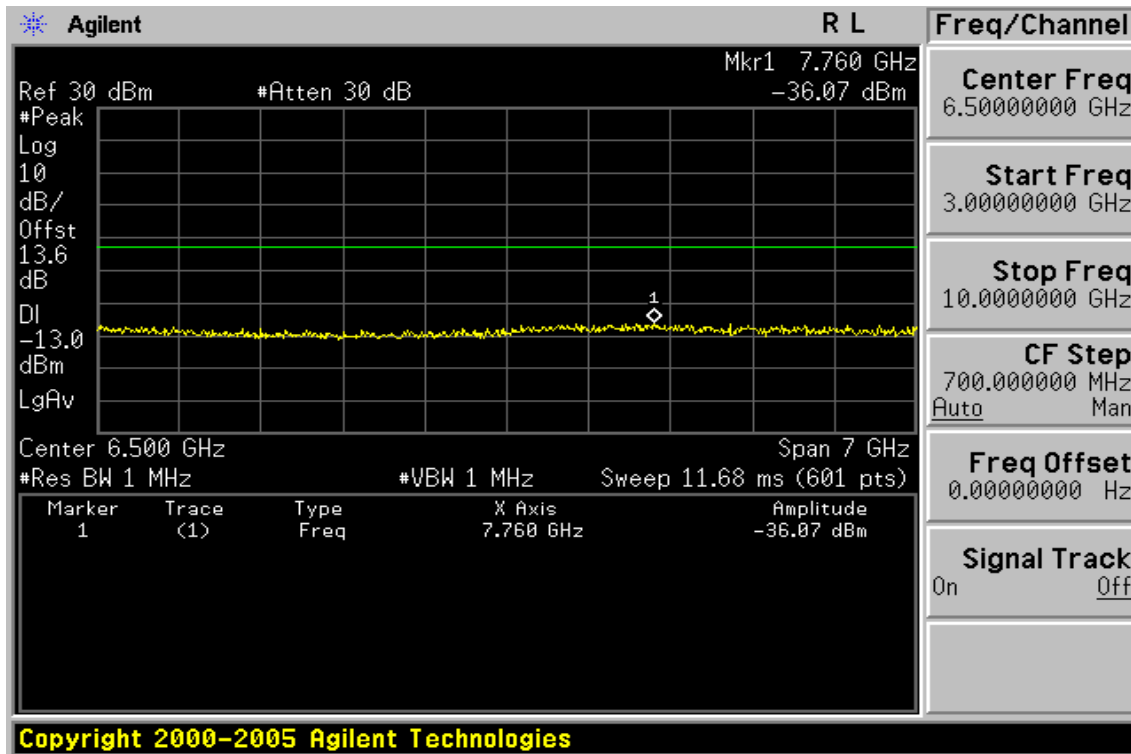
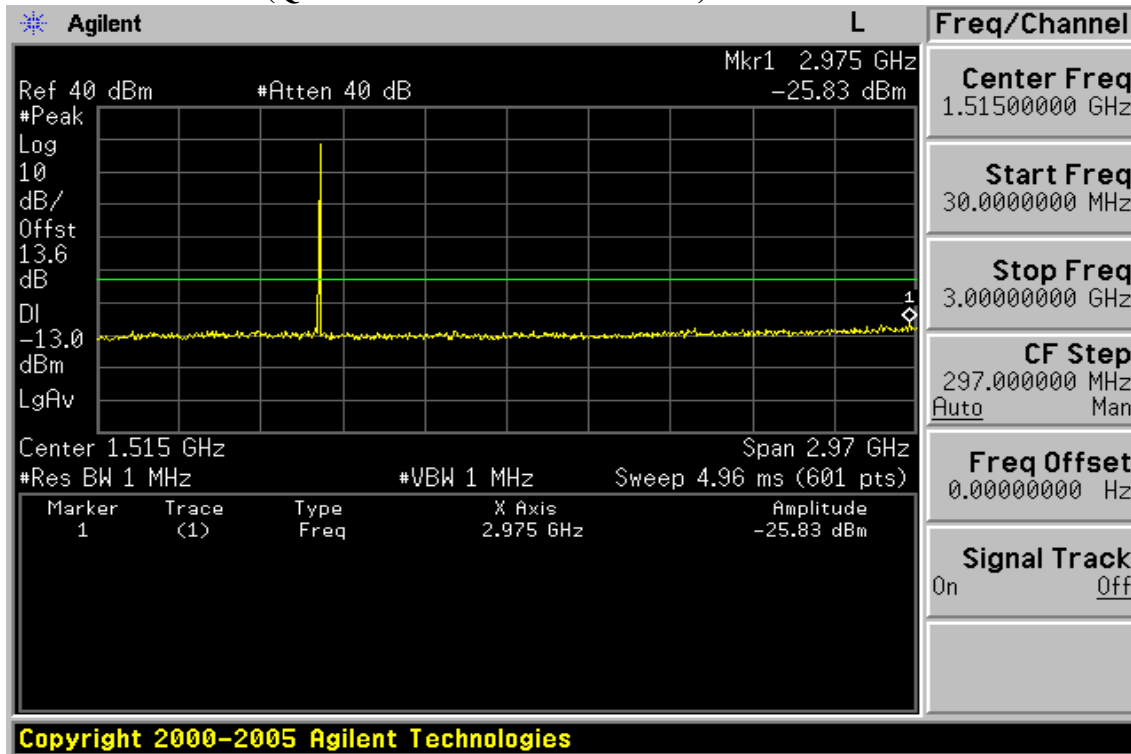
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**Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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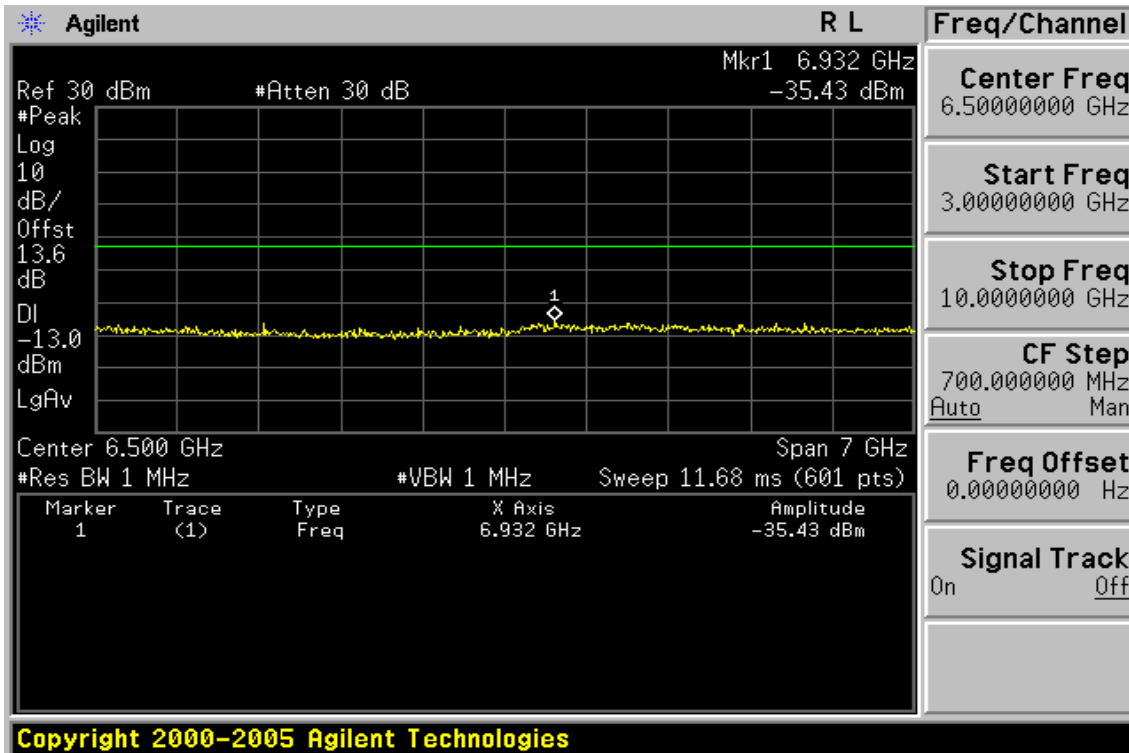
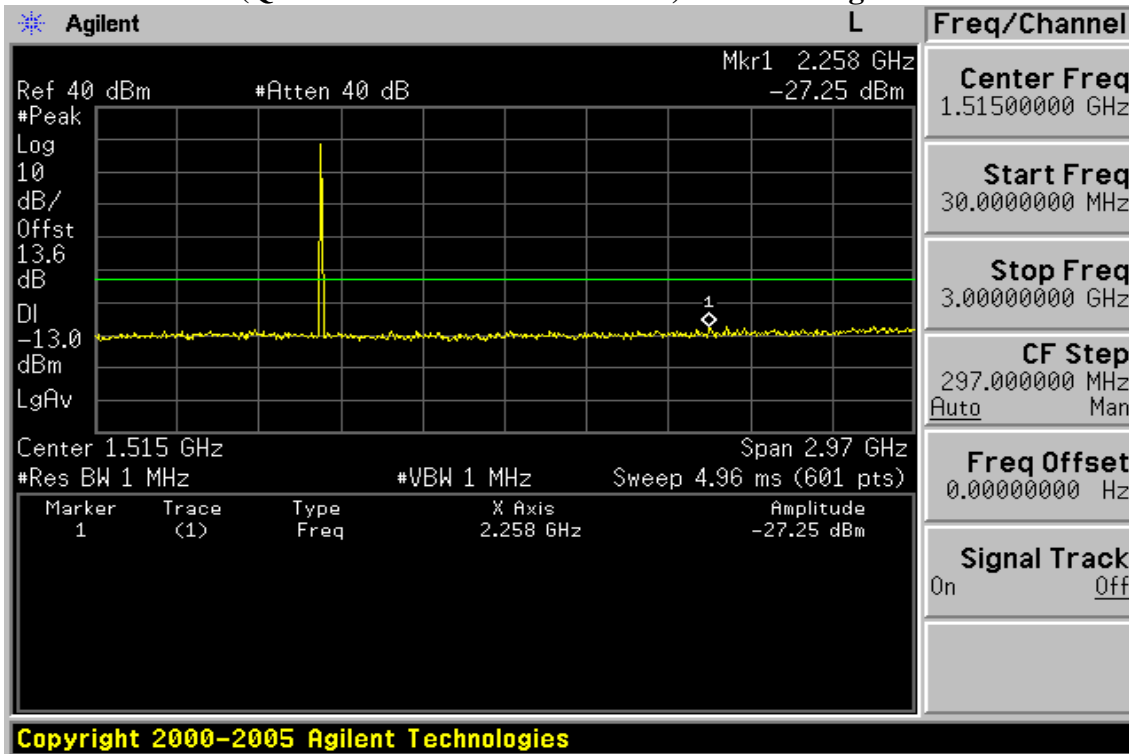
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**

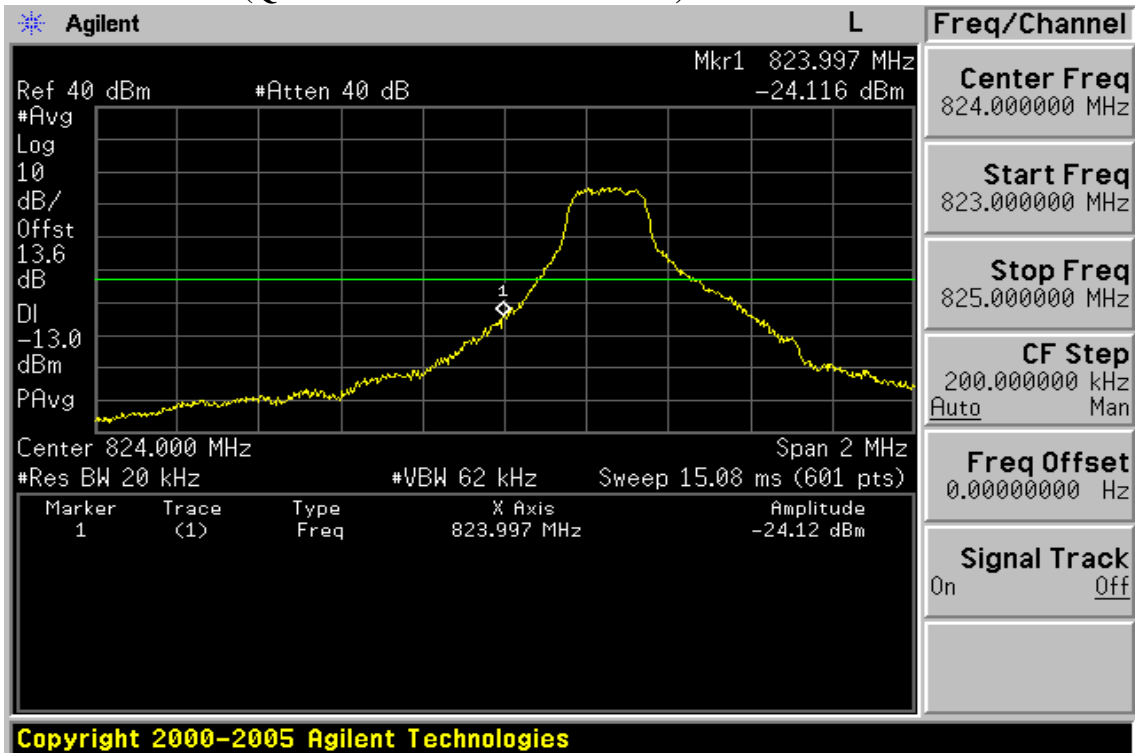


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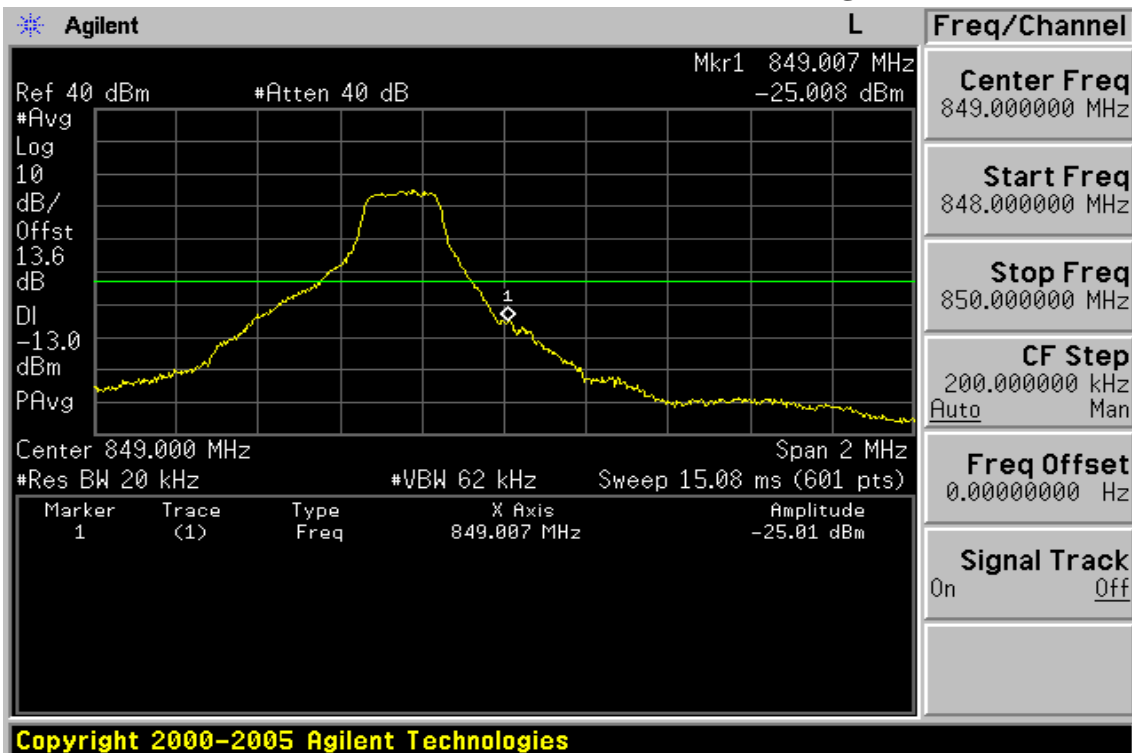
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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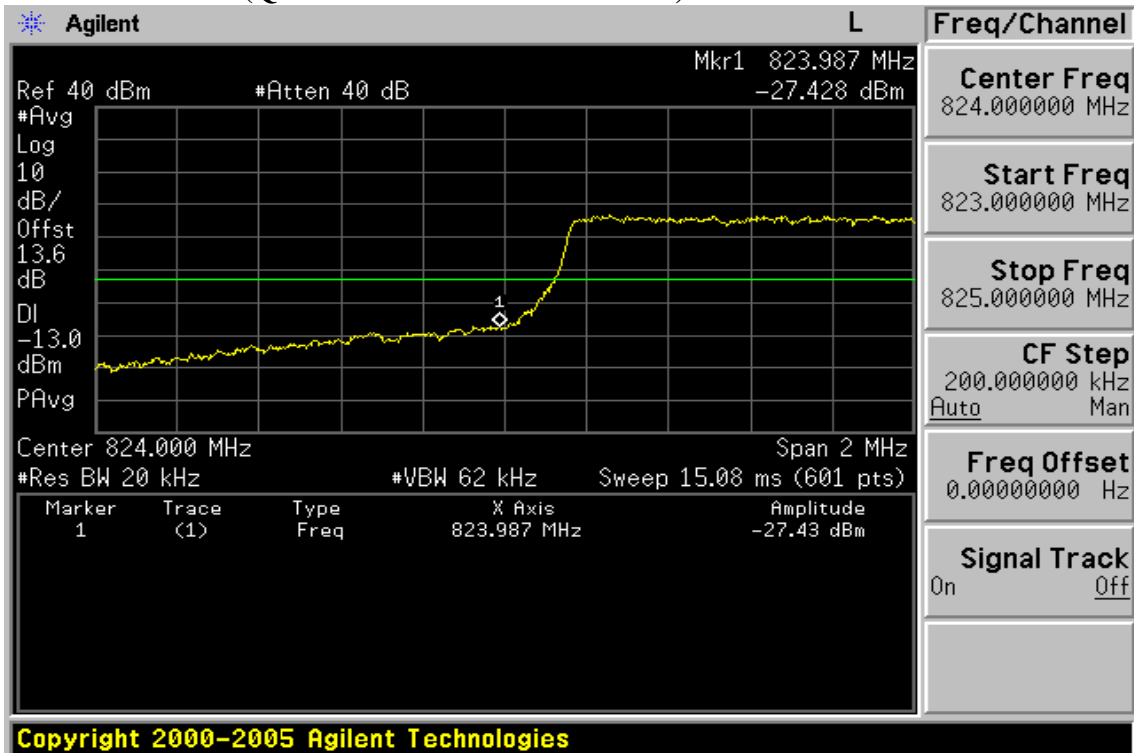
t (886-2) 2299-3279

f (886-2) 2298-0488

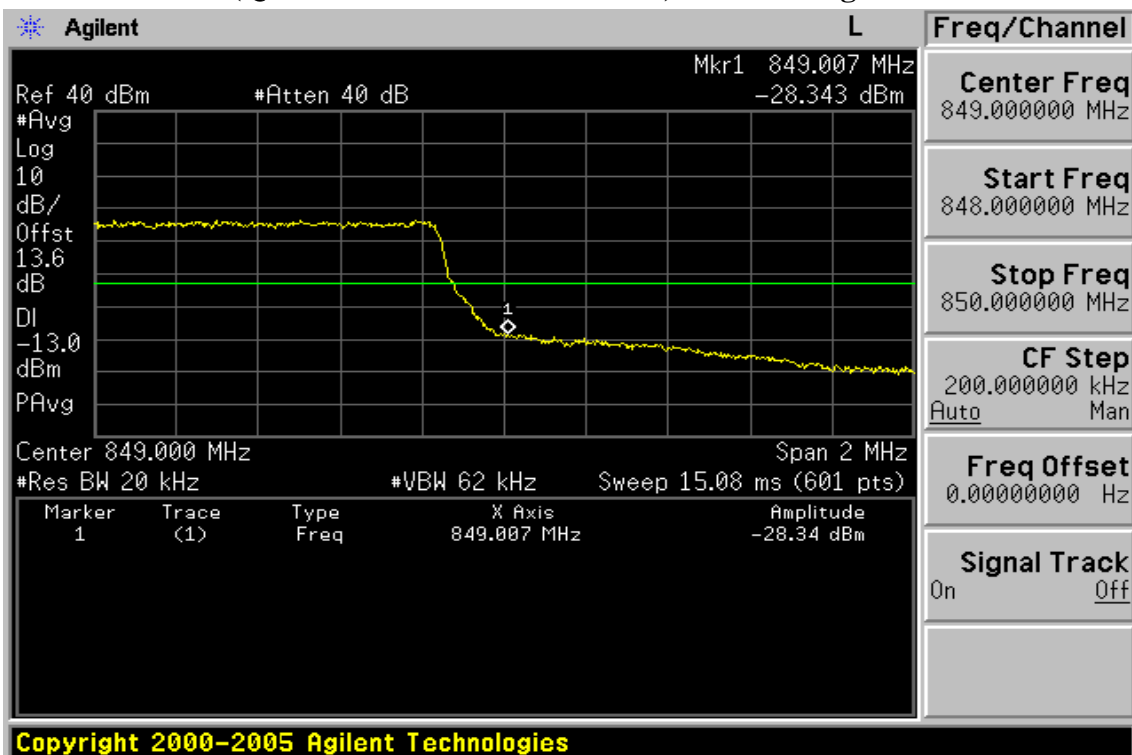
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
(QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
(QPSK RB Number: 6 Offset: 0) Channel Highest**



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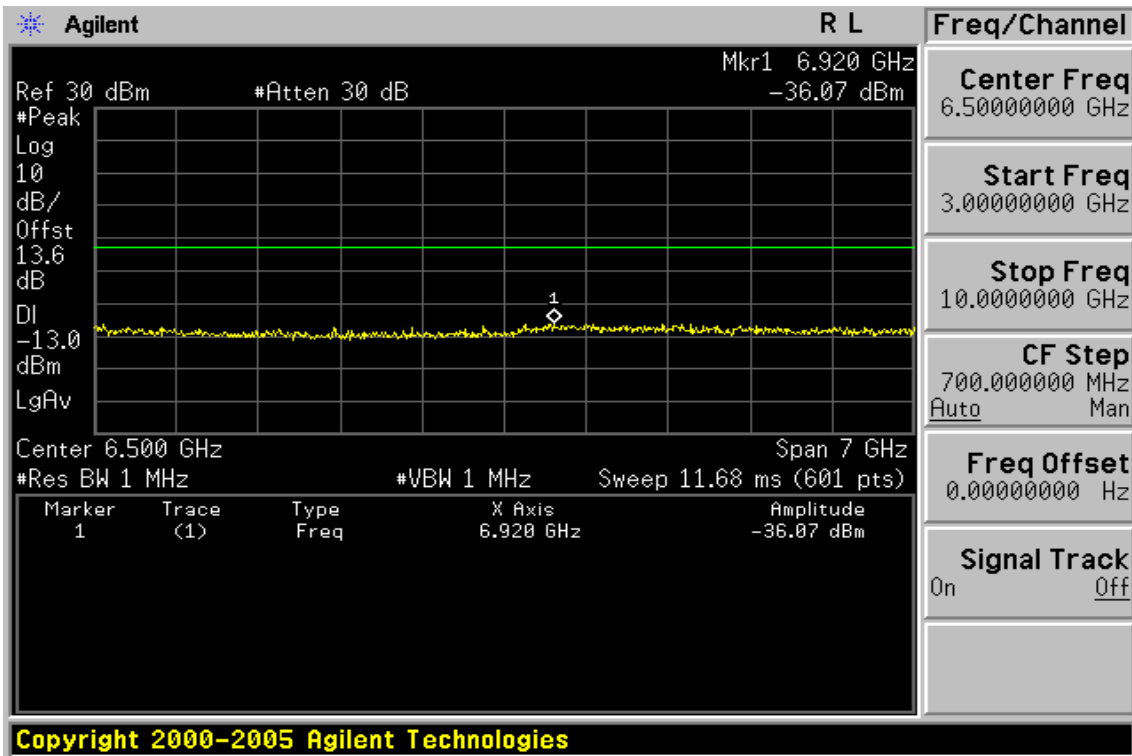
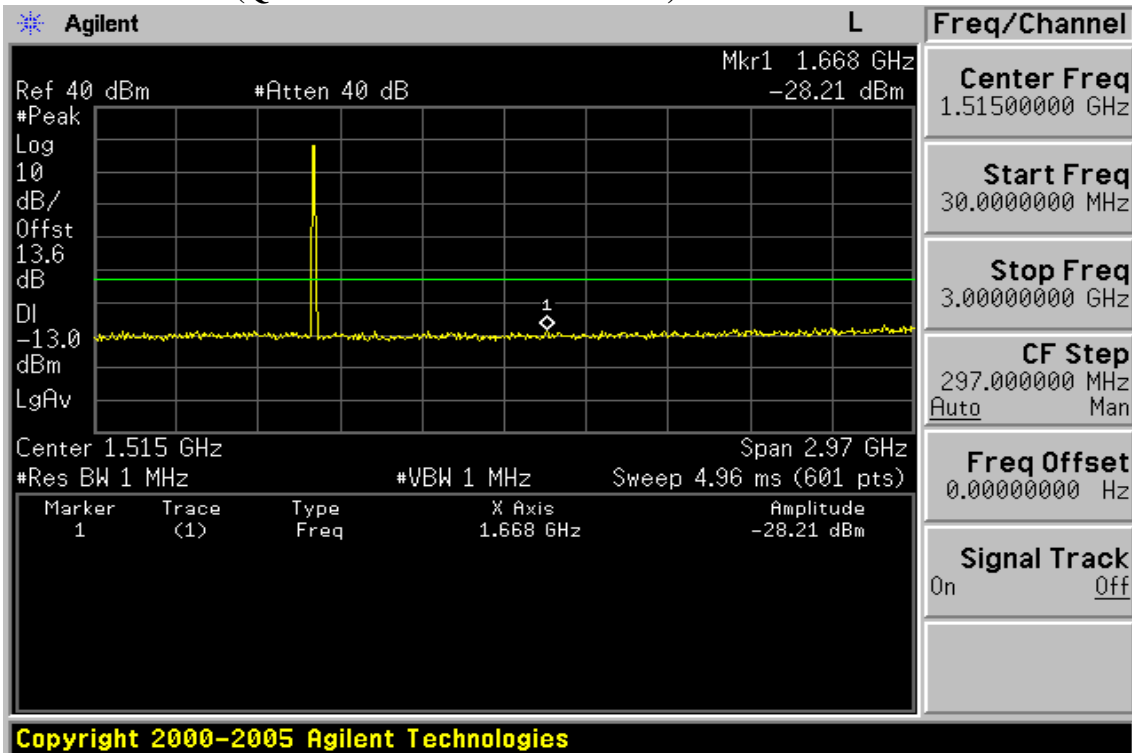
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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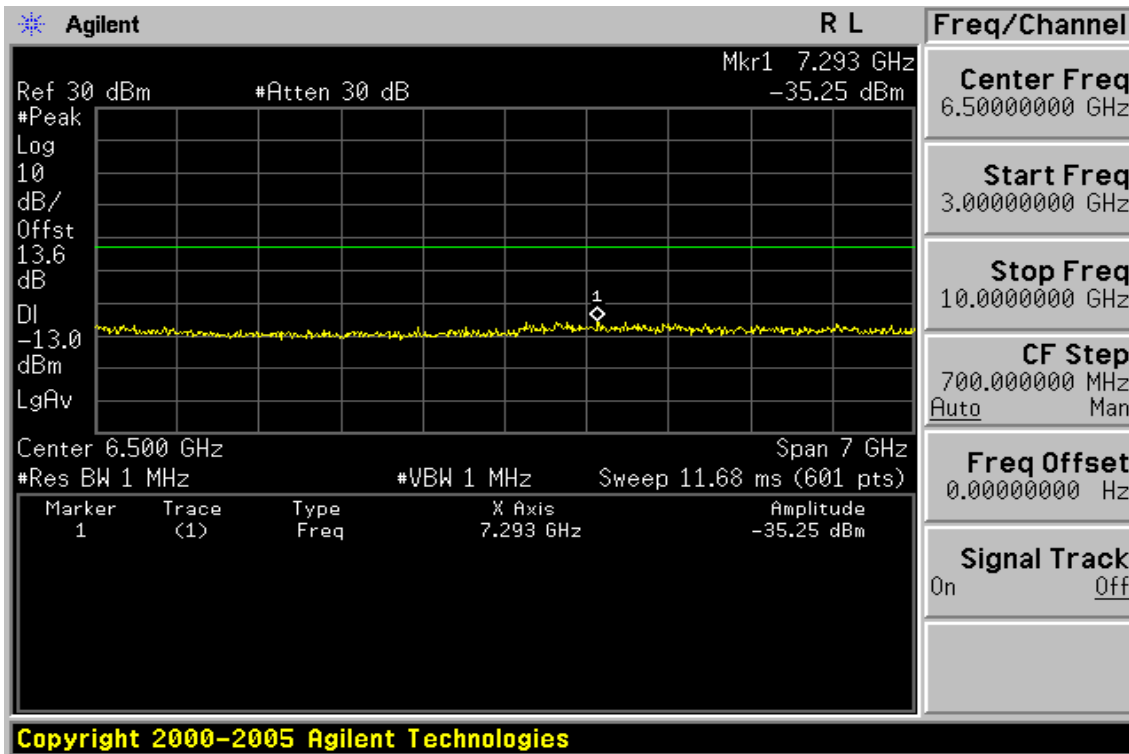
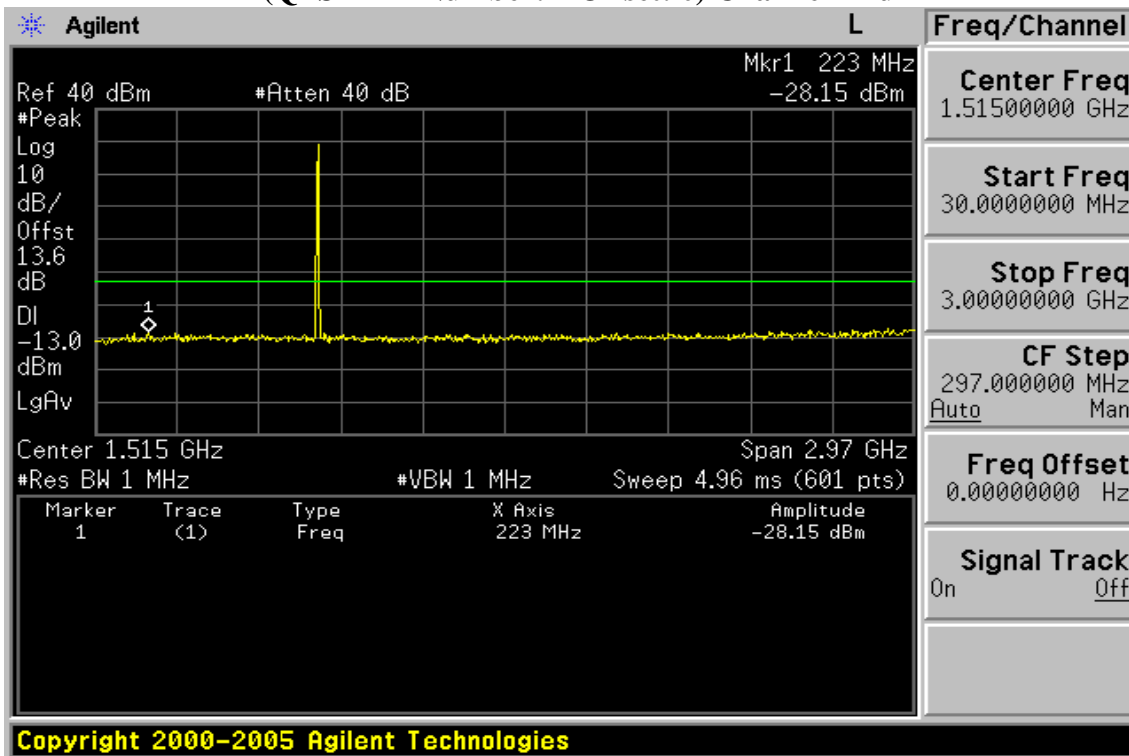
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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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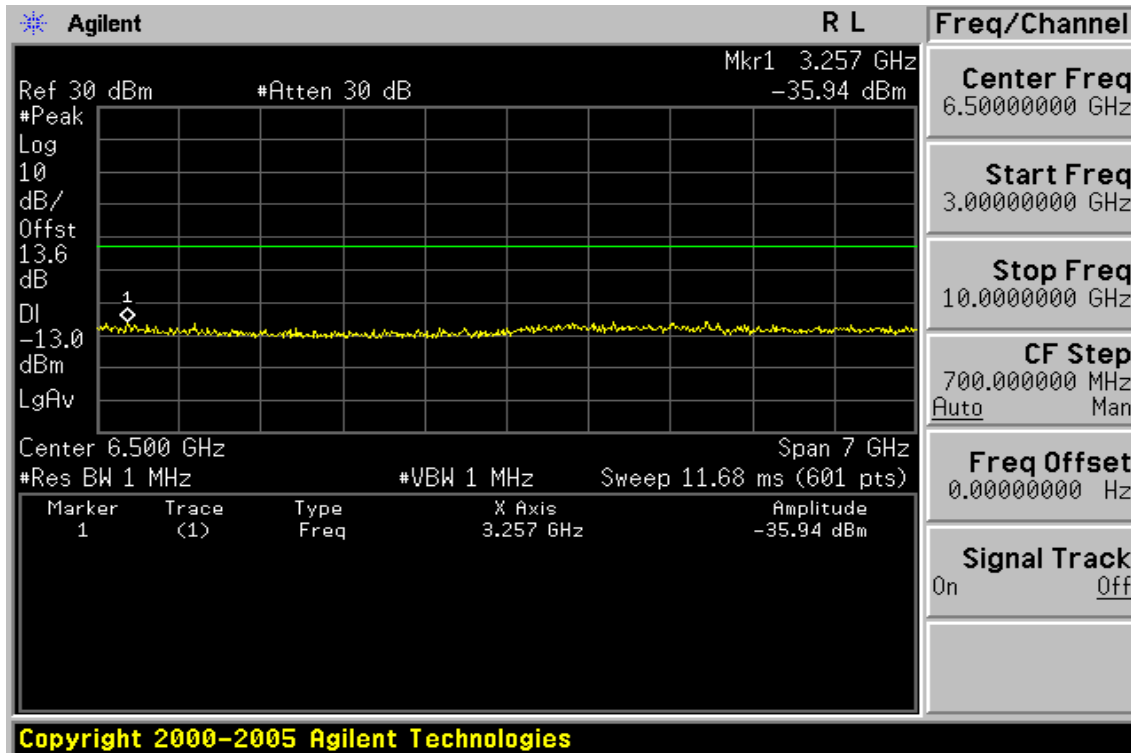
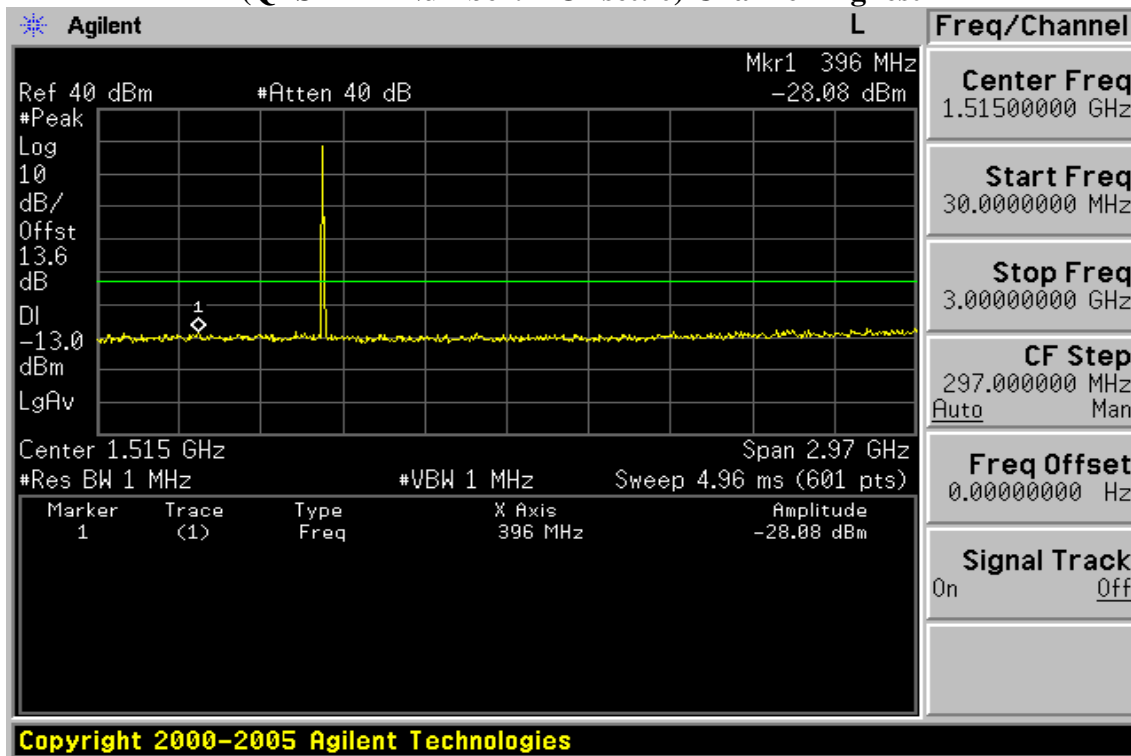
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**

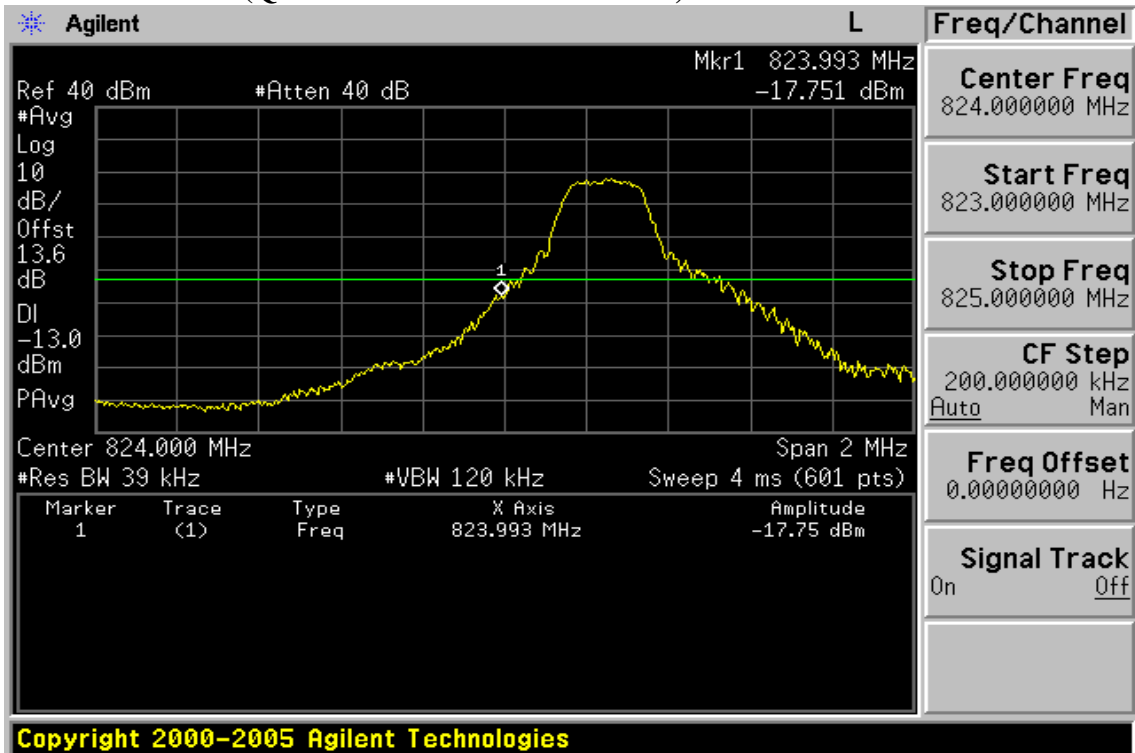


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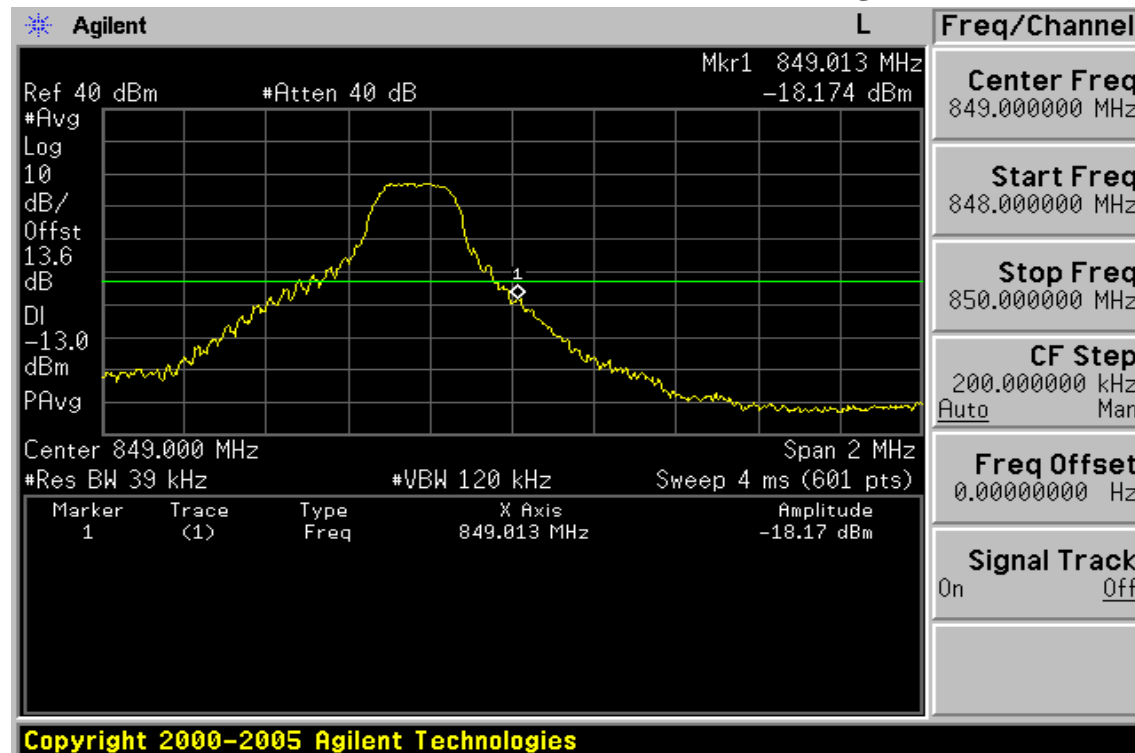
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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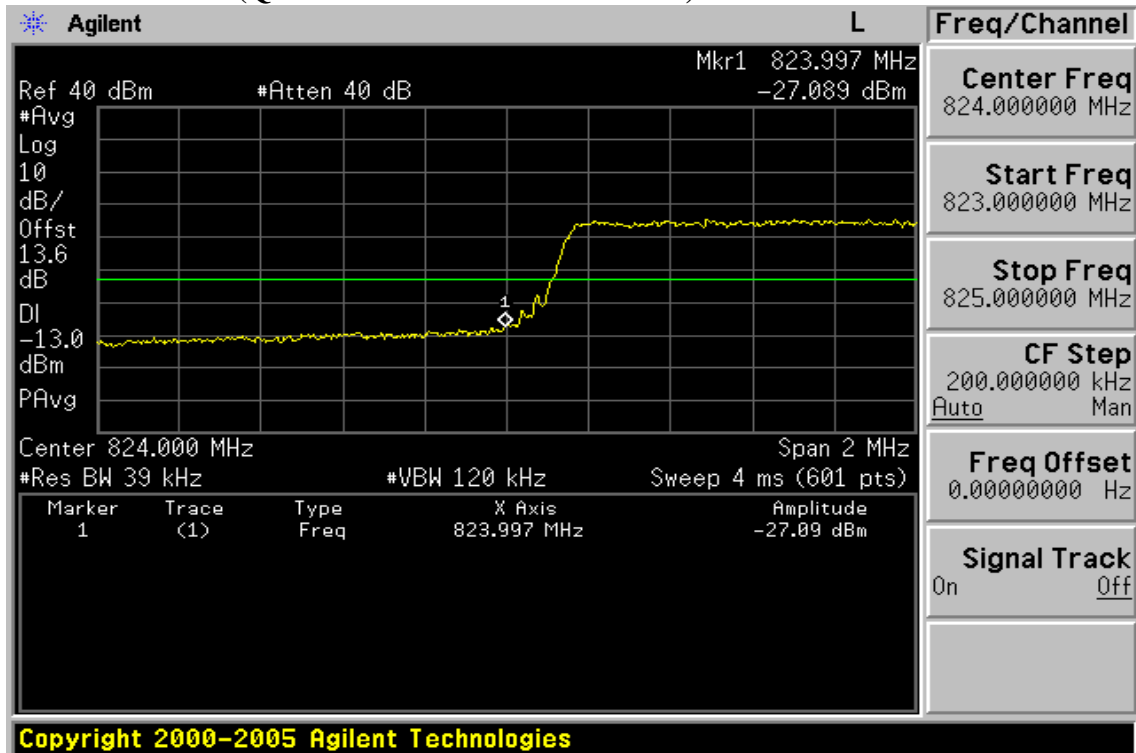
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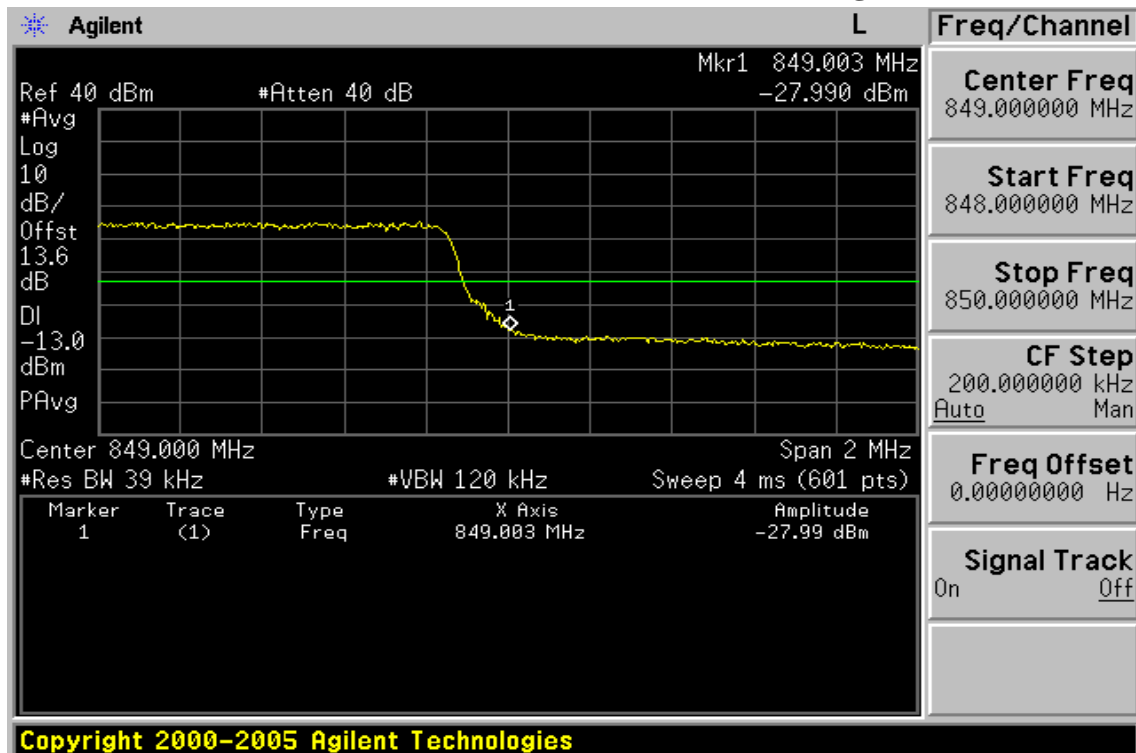
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
(QPSK RB Number: 15 Offset: 0) Channel Highest**



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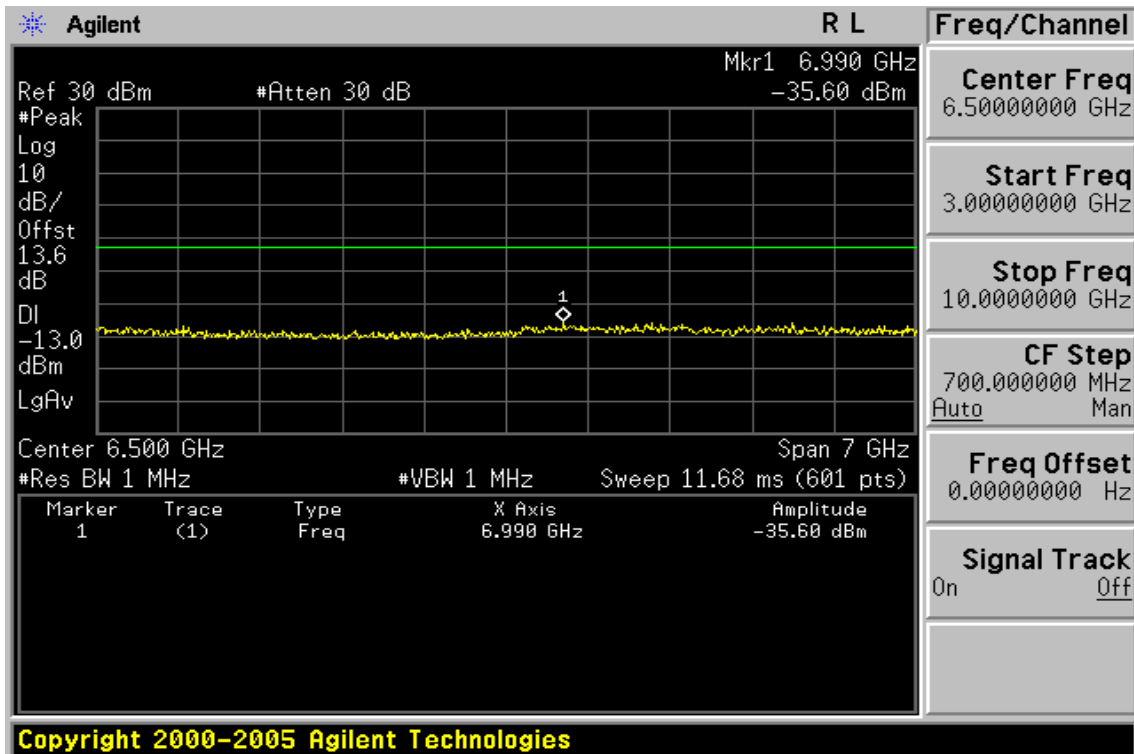
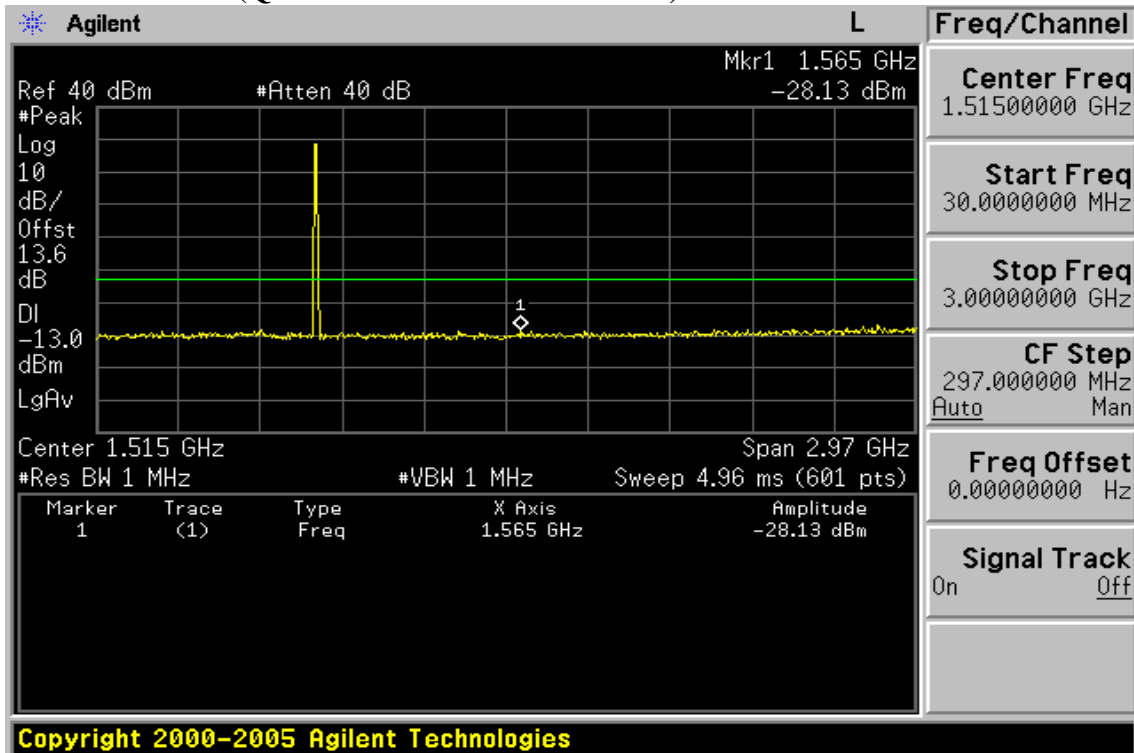
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**Out of Band emission at antenna terminals-5MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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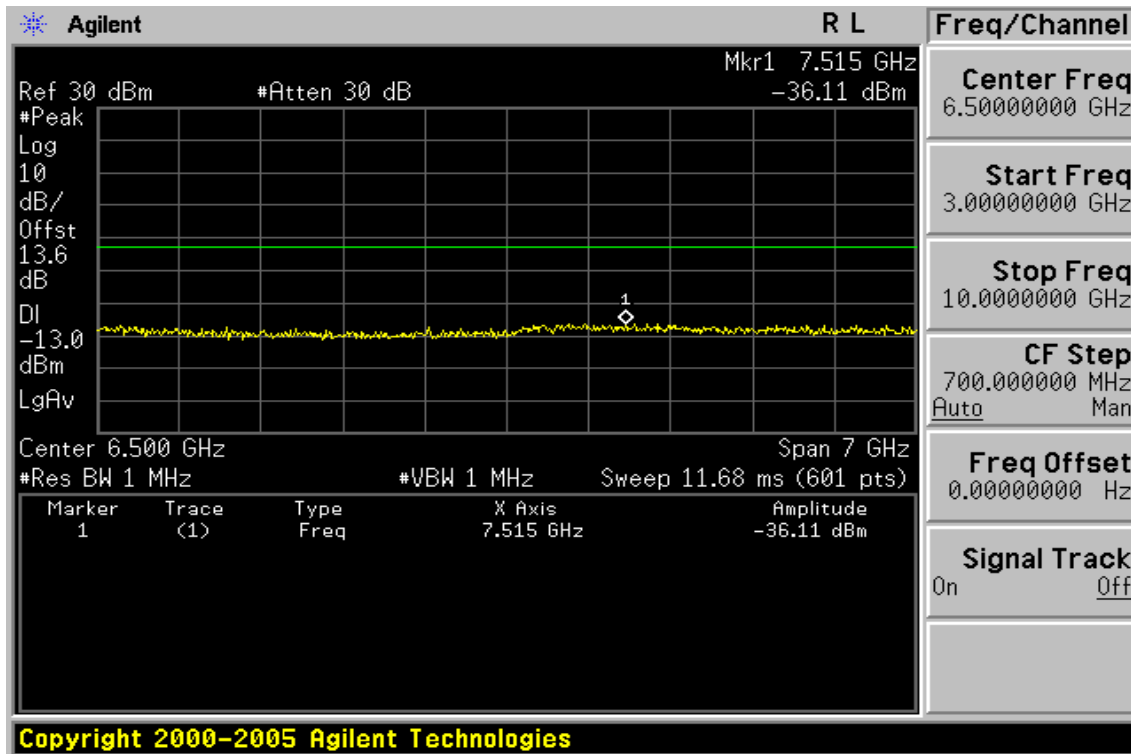
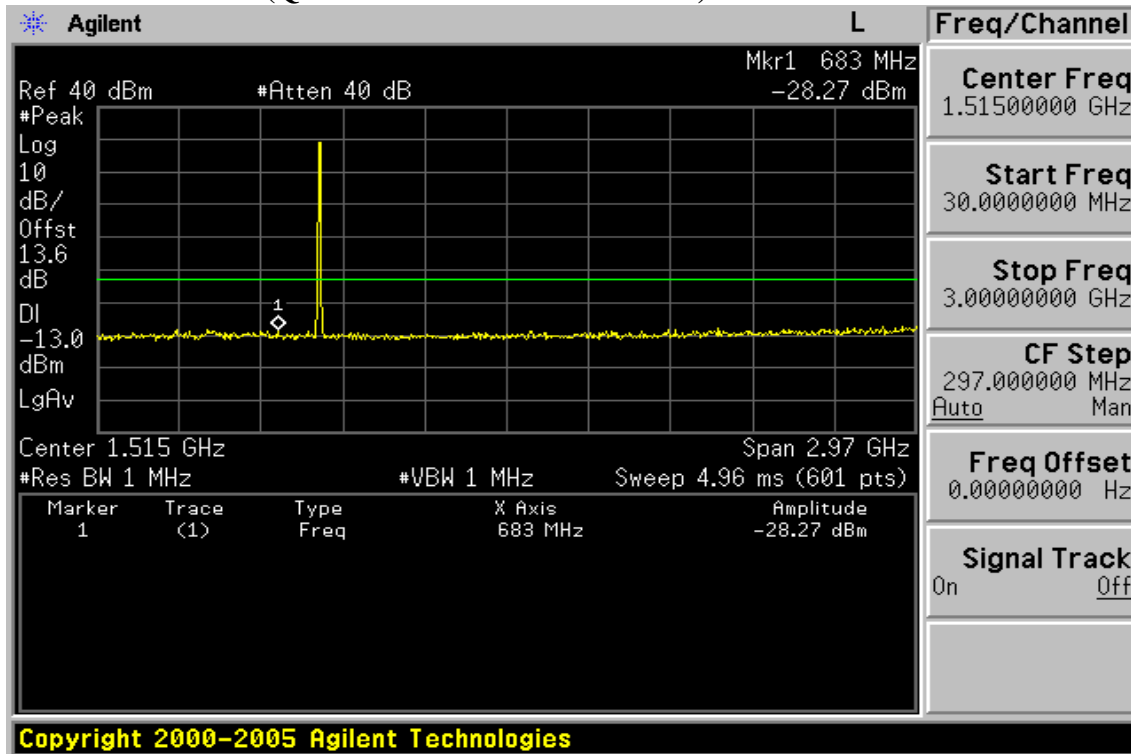
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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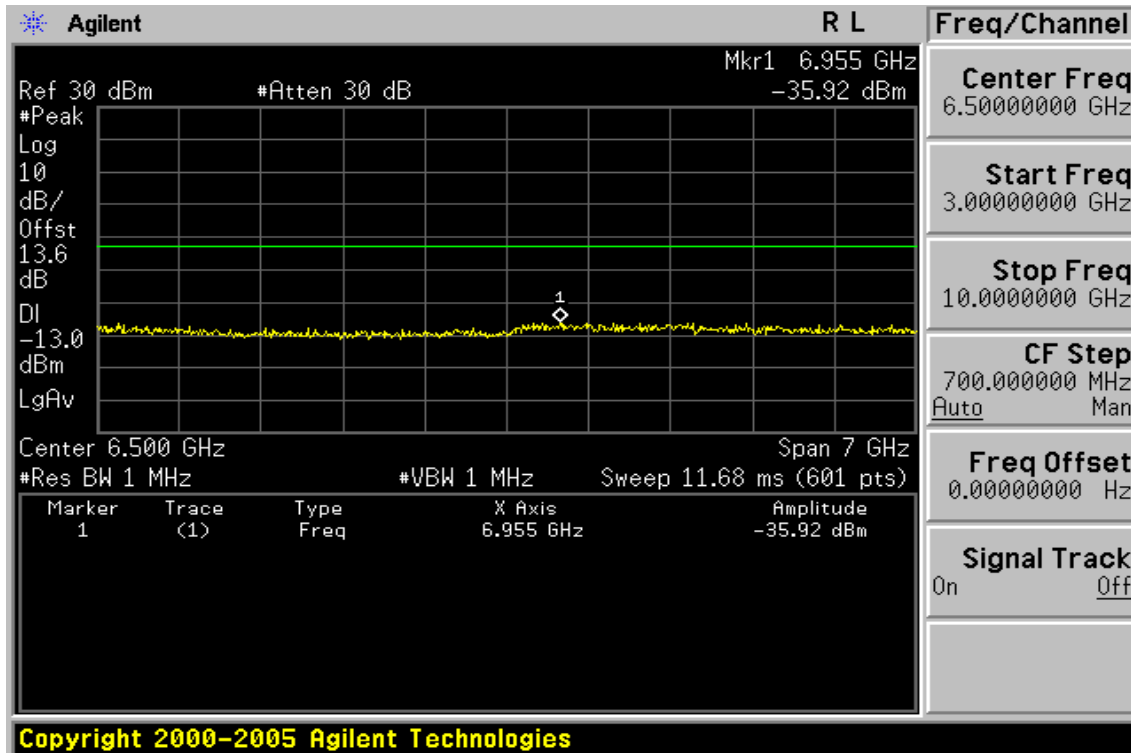
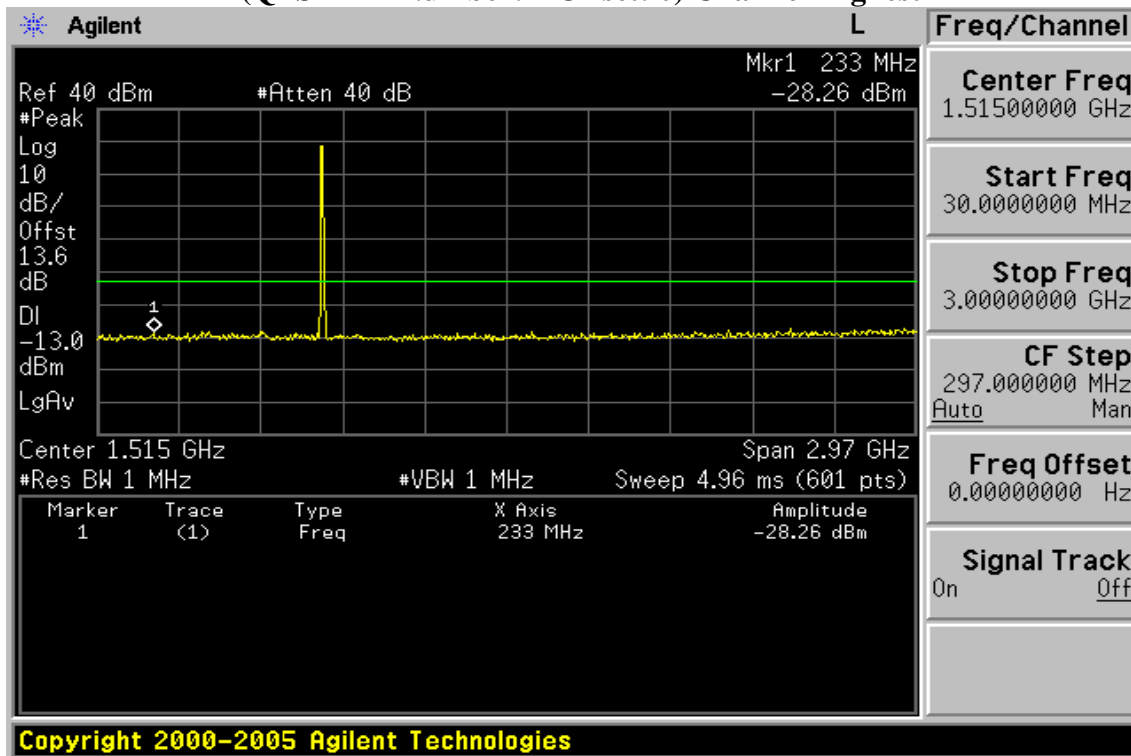
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**

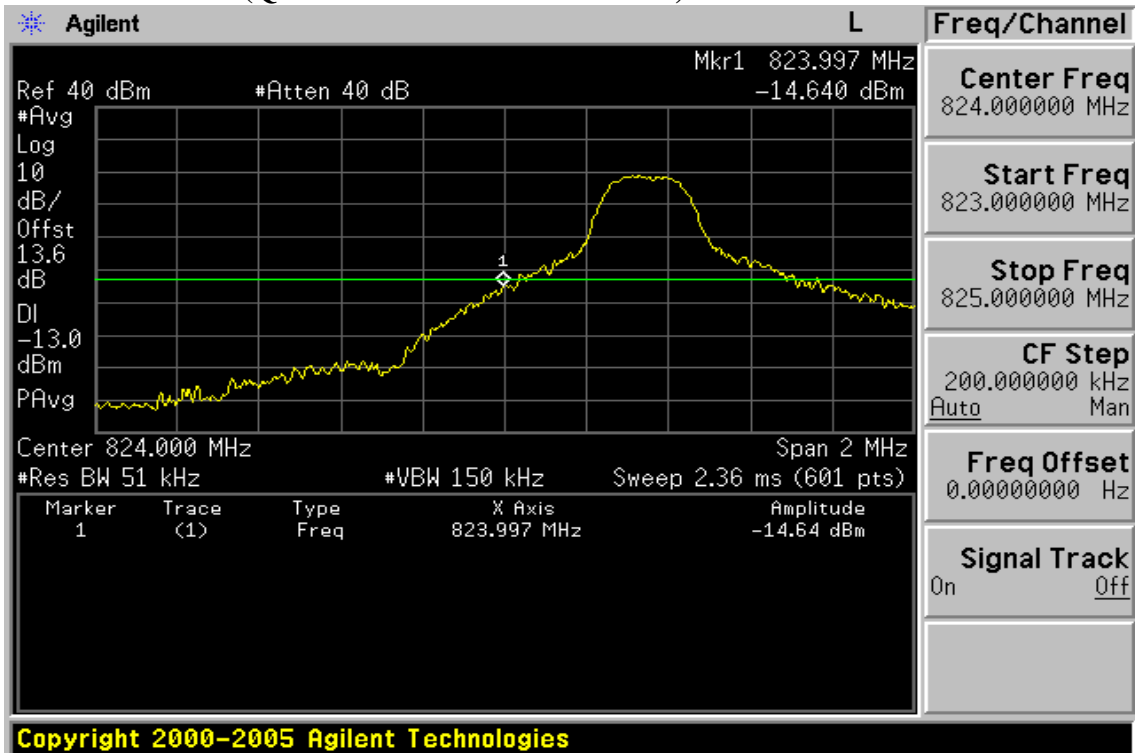


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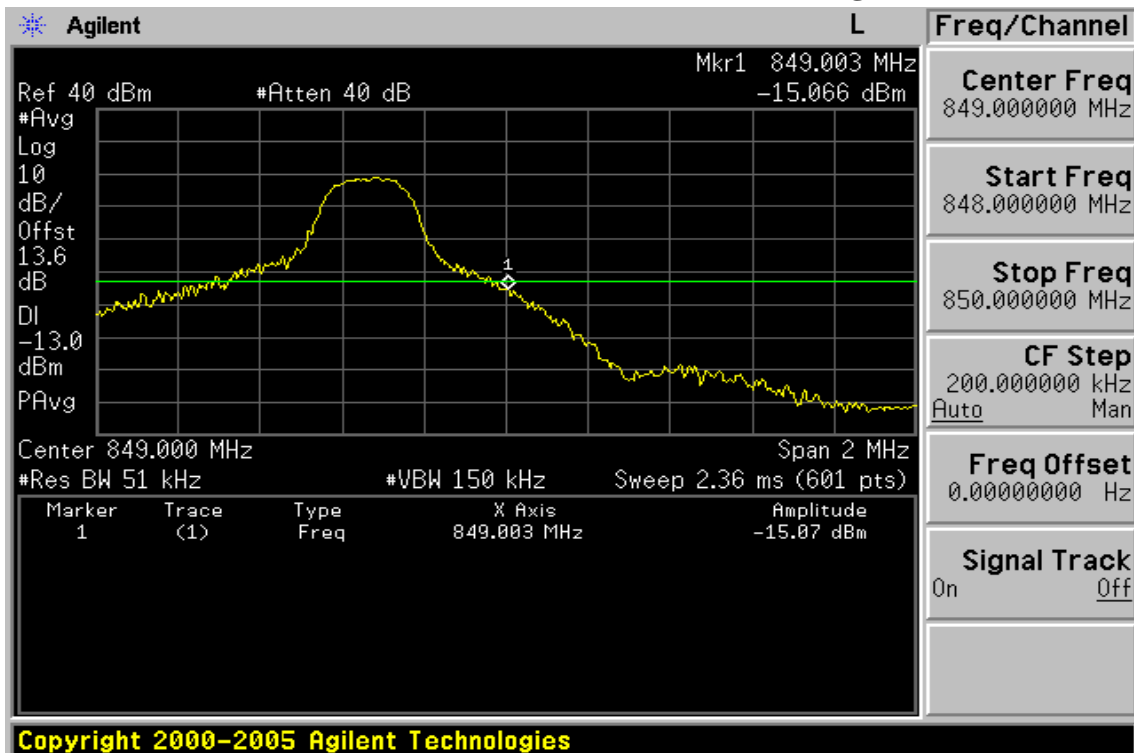
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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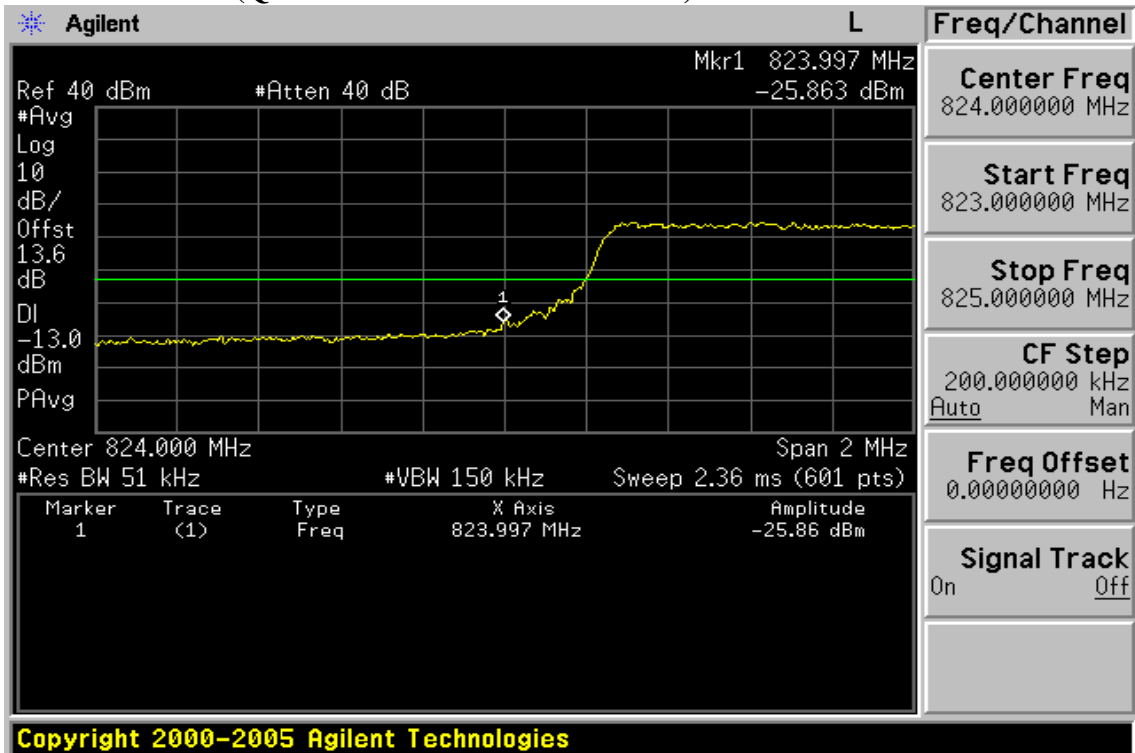
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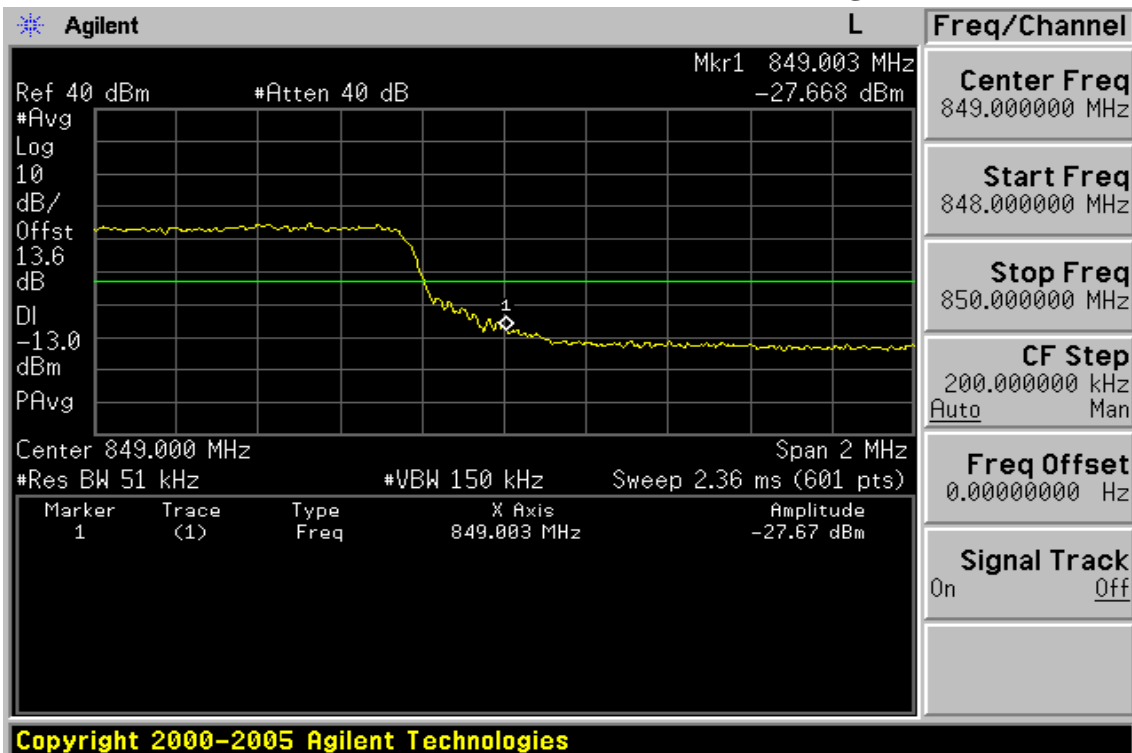
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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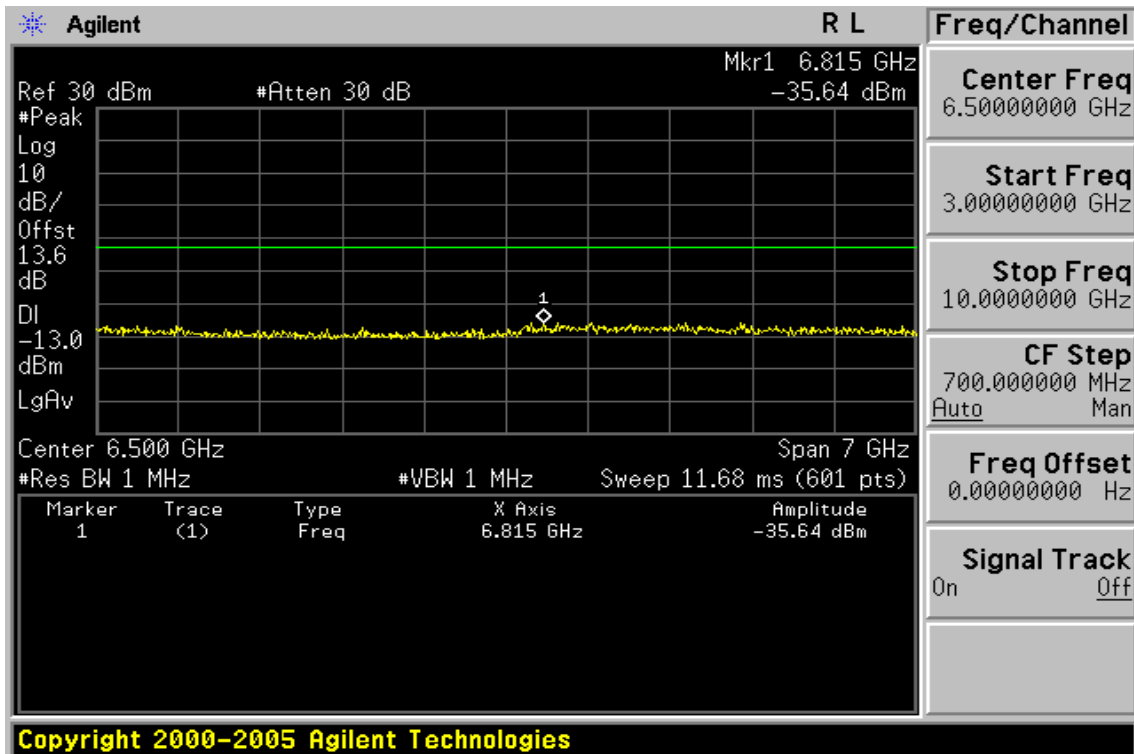
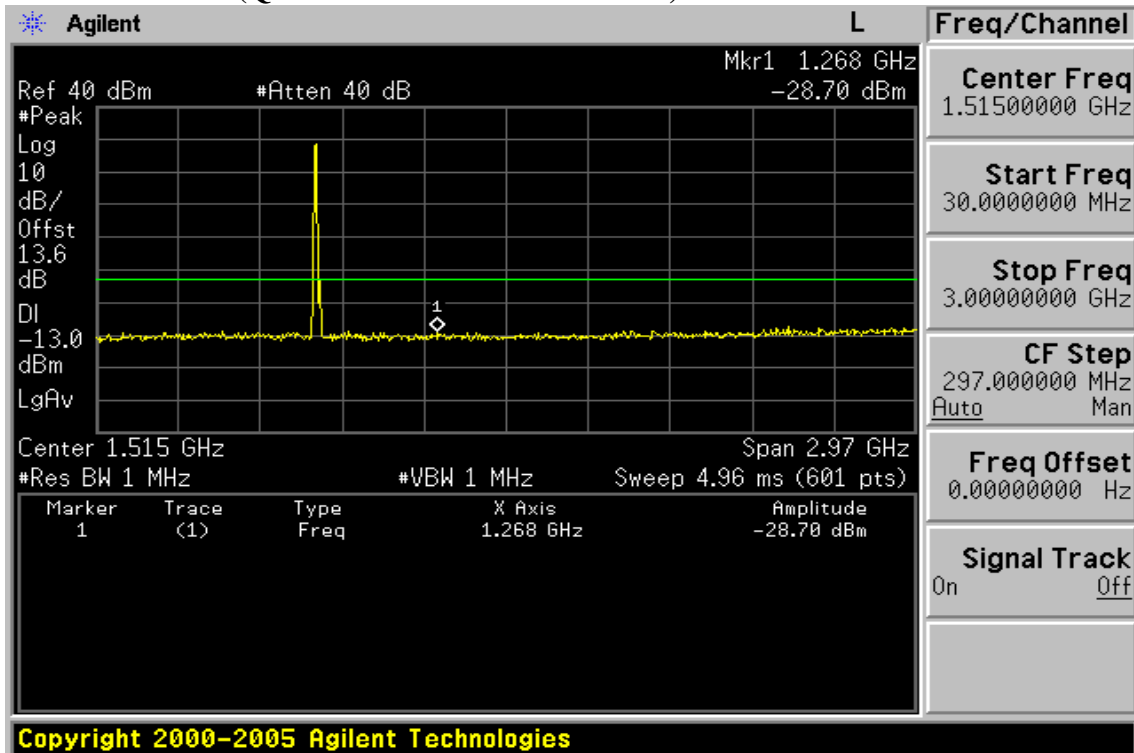
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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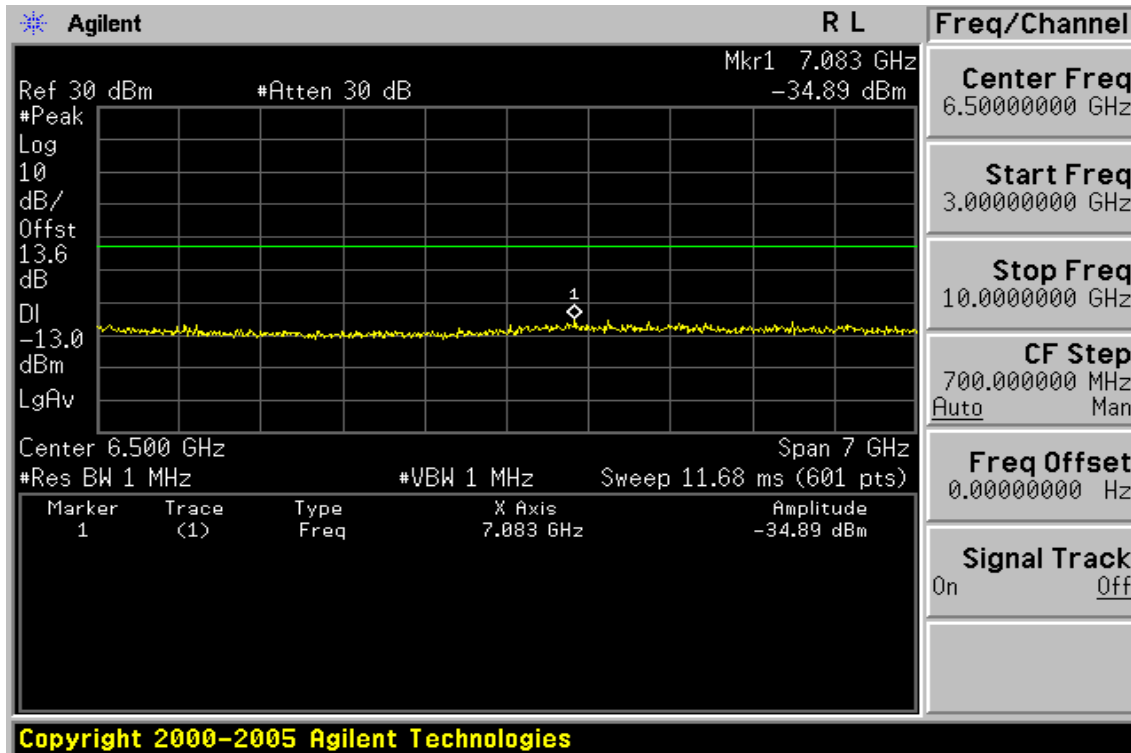
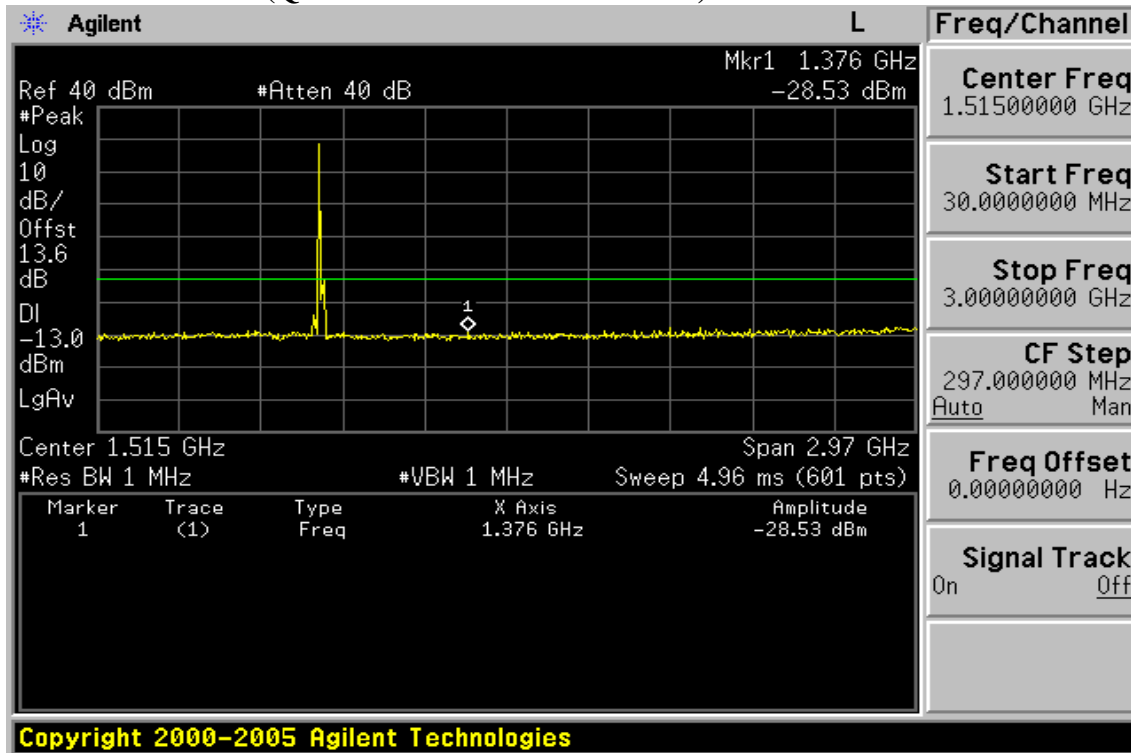
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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

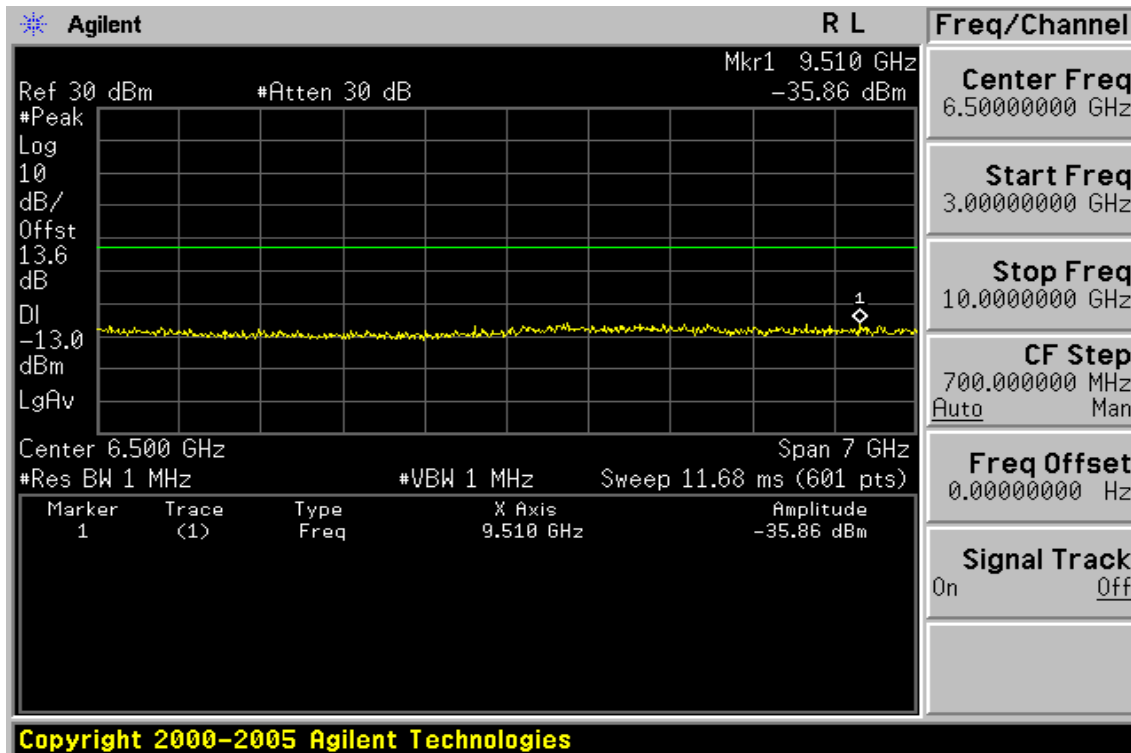
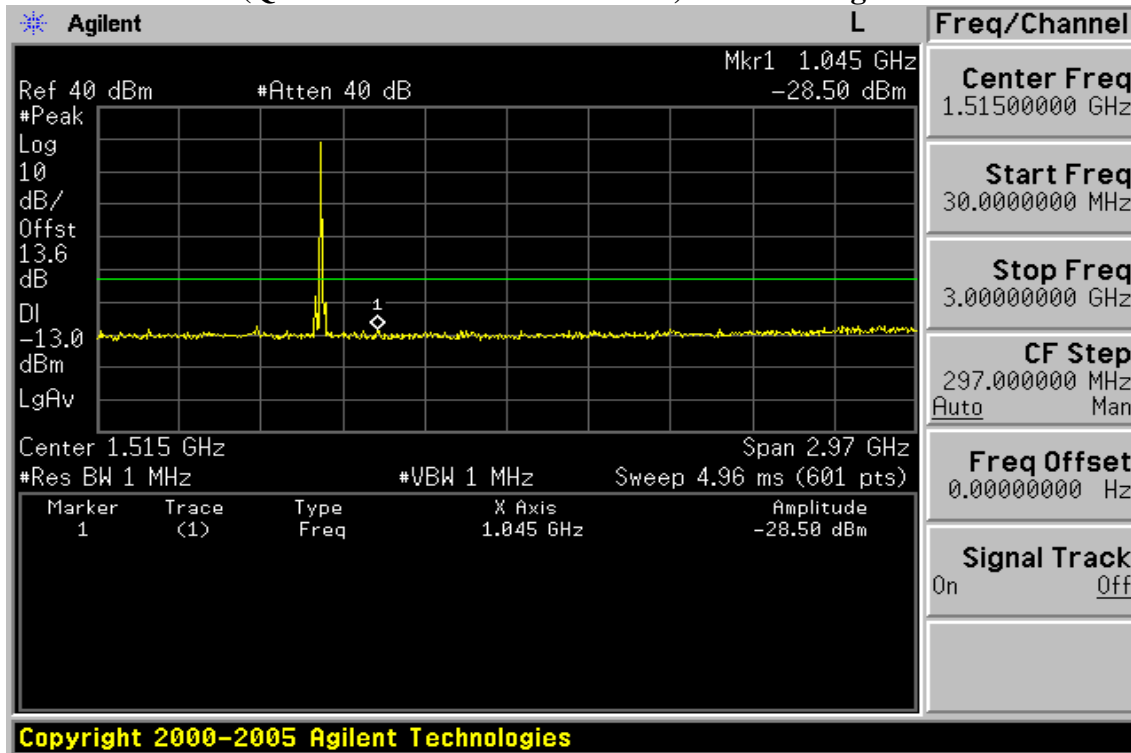


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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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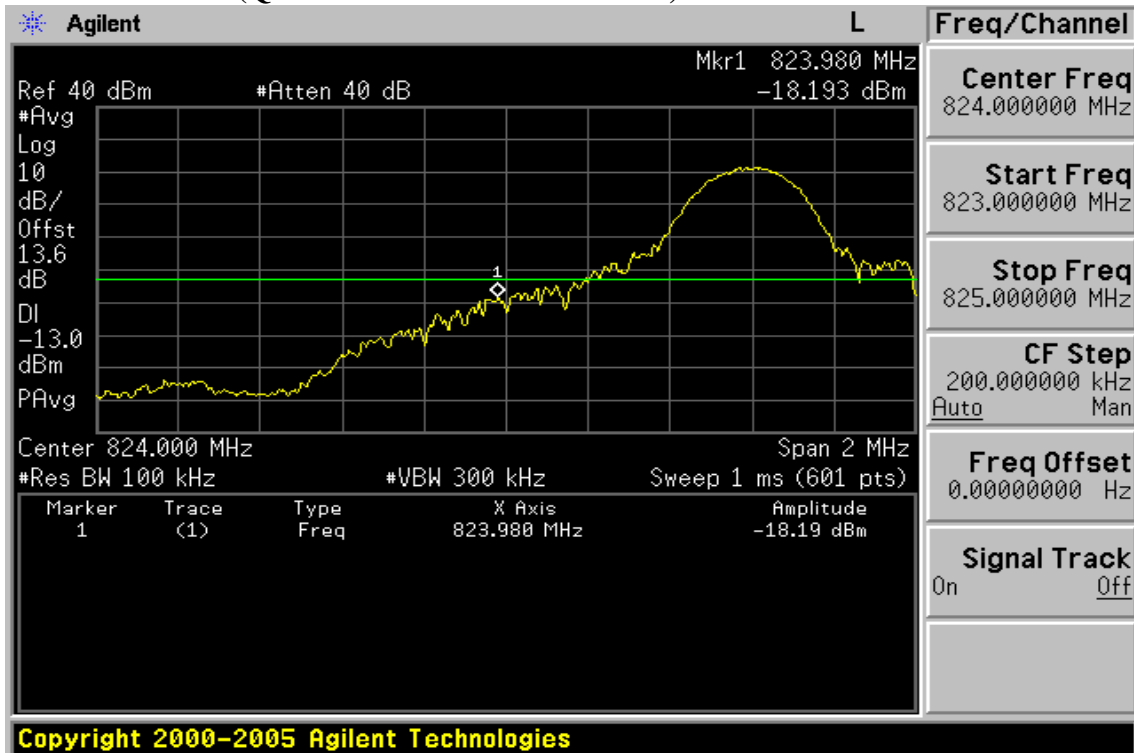
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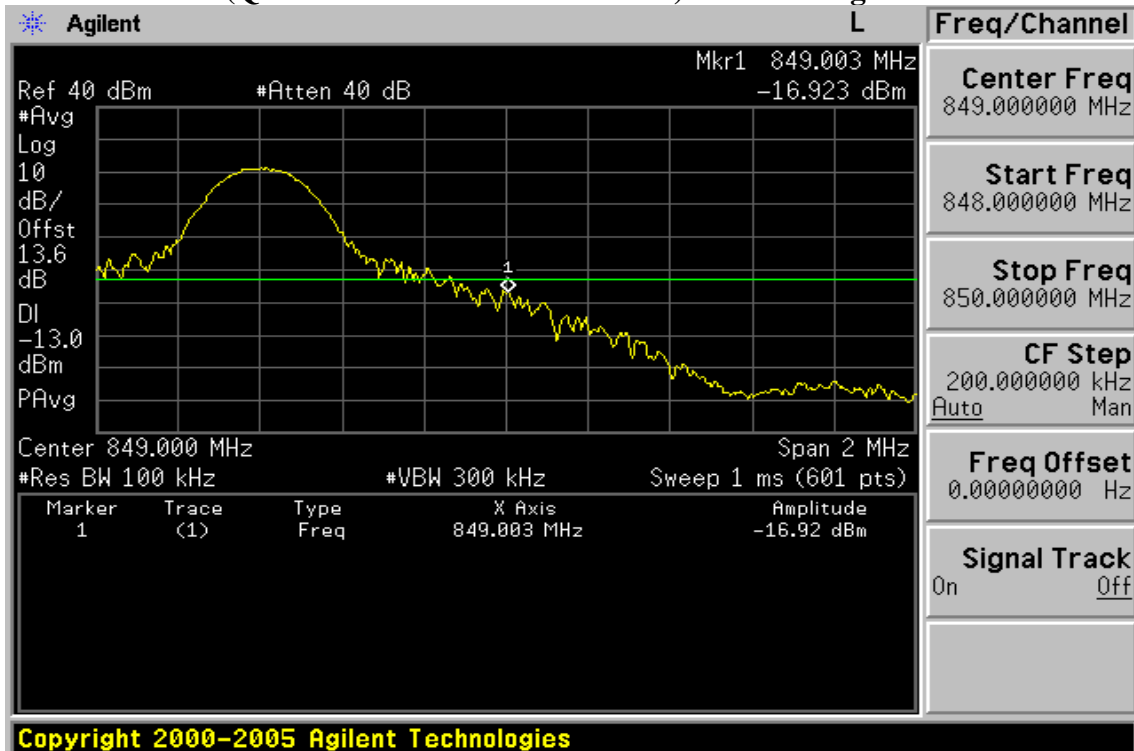
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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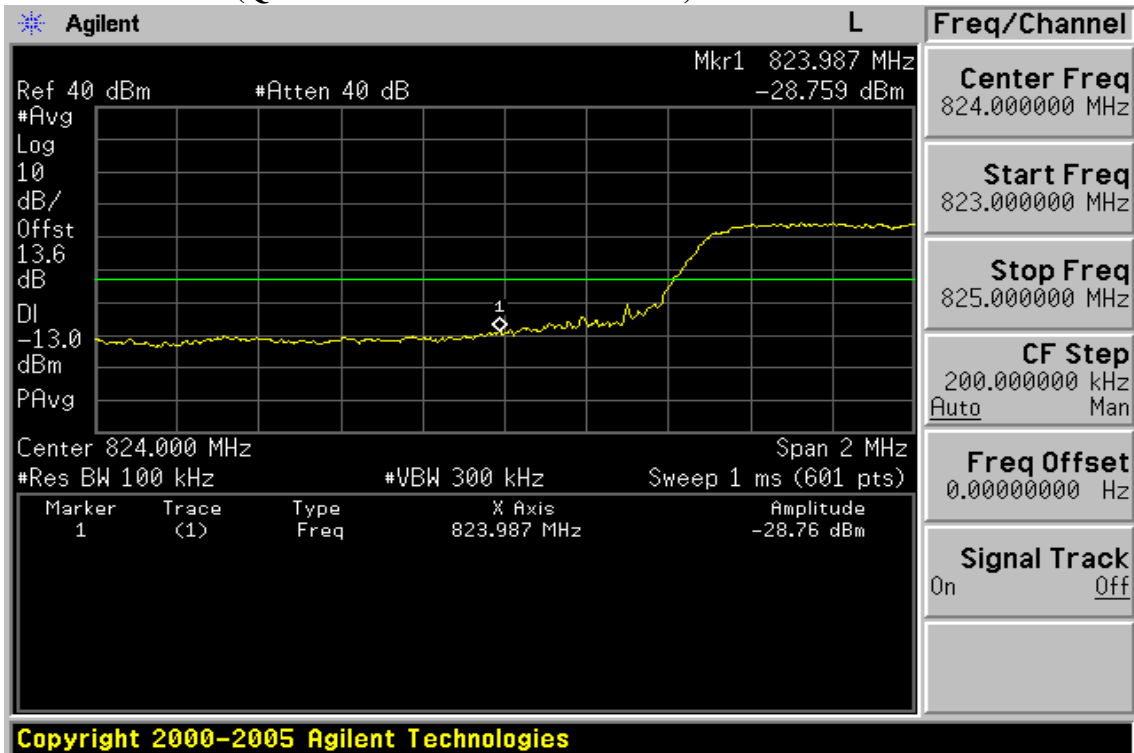
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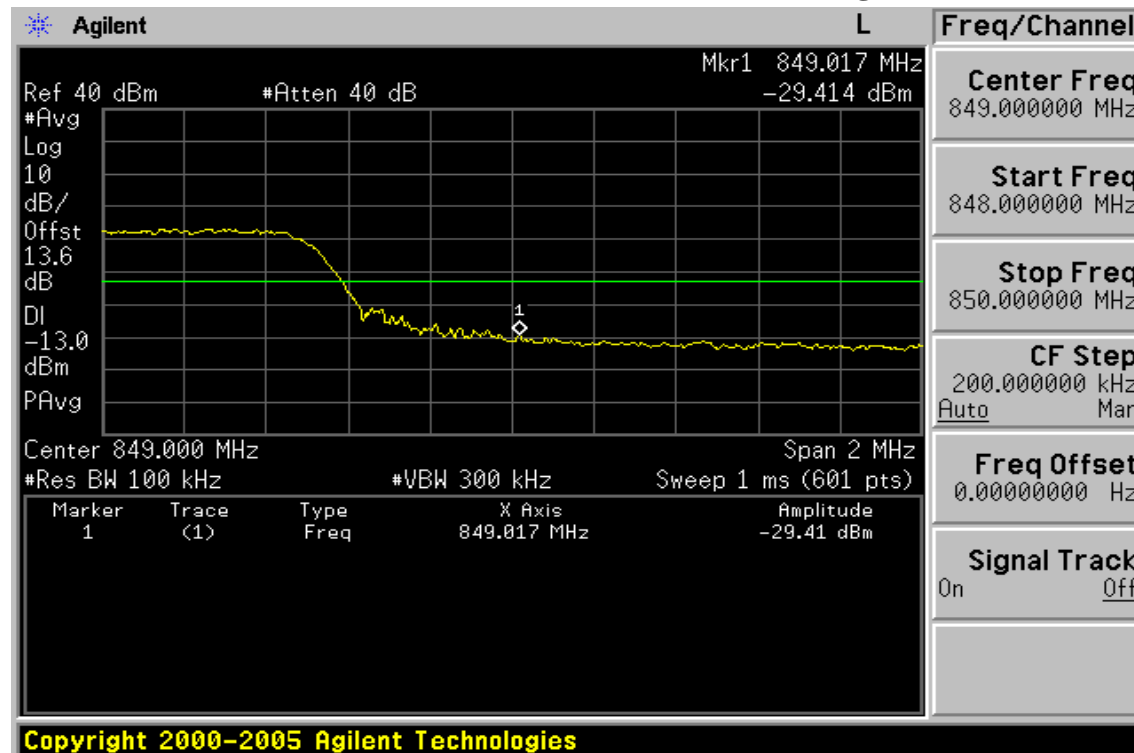
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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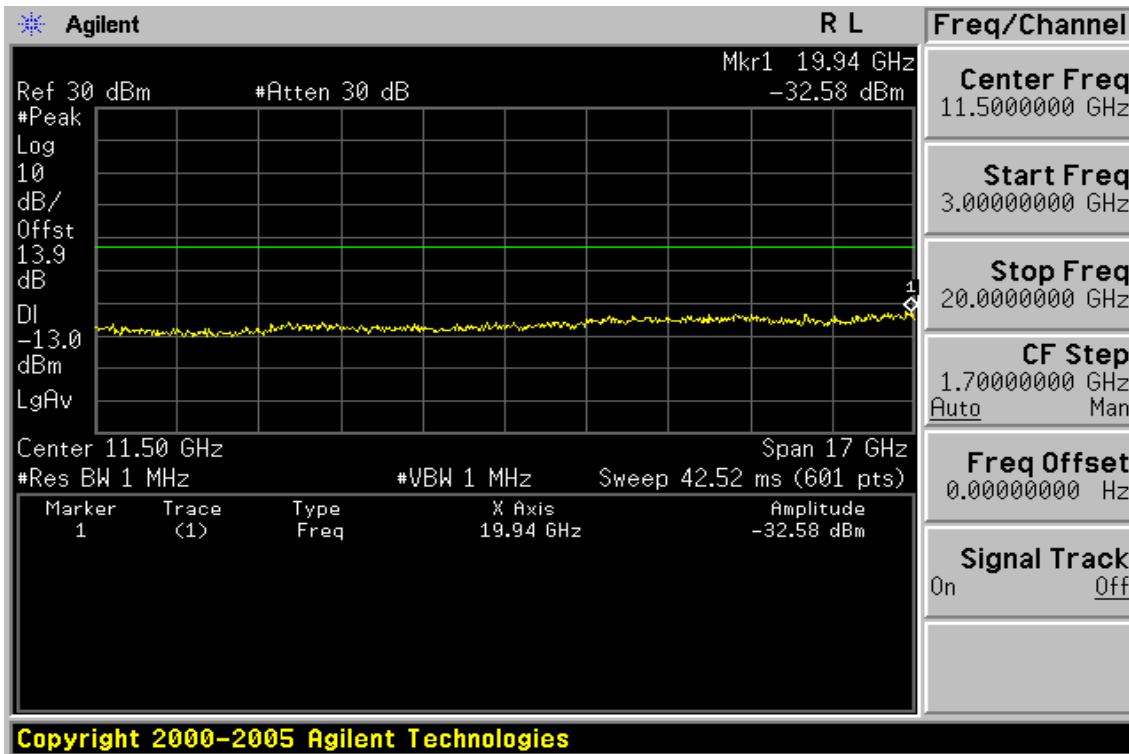
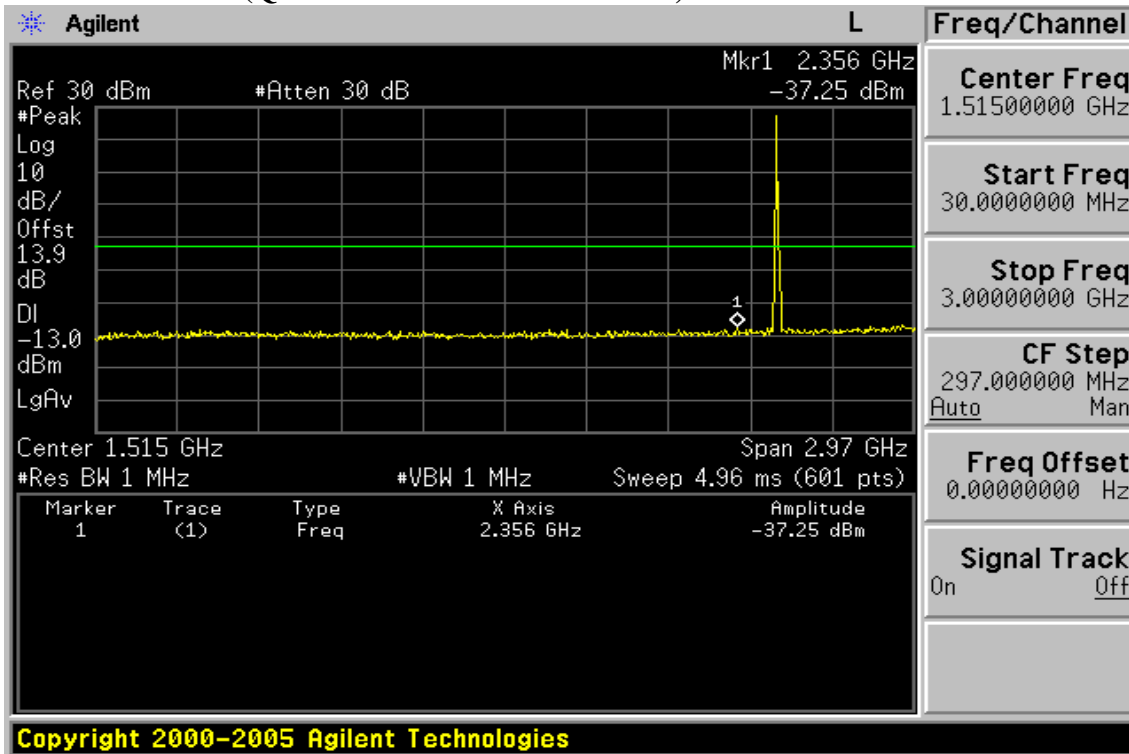
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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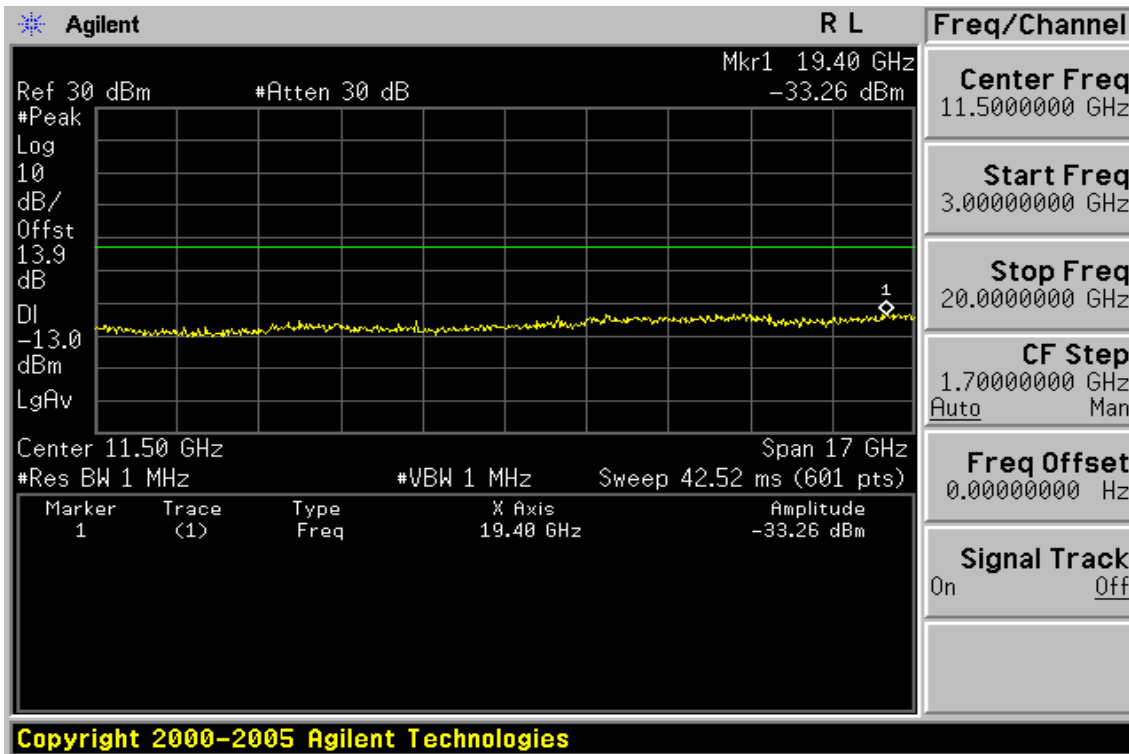
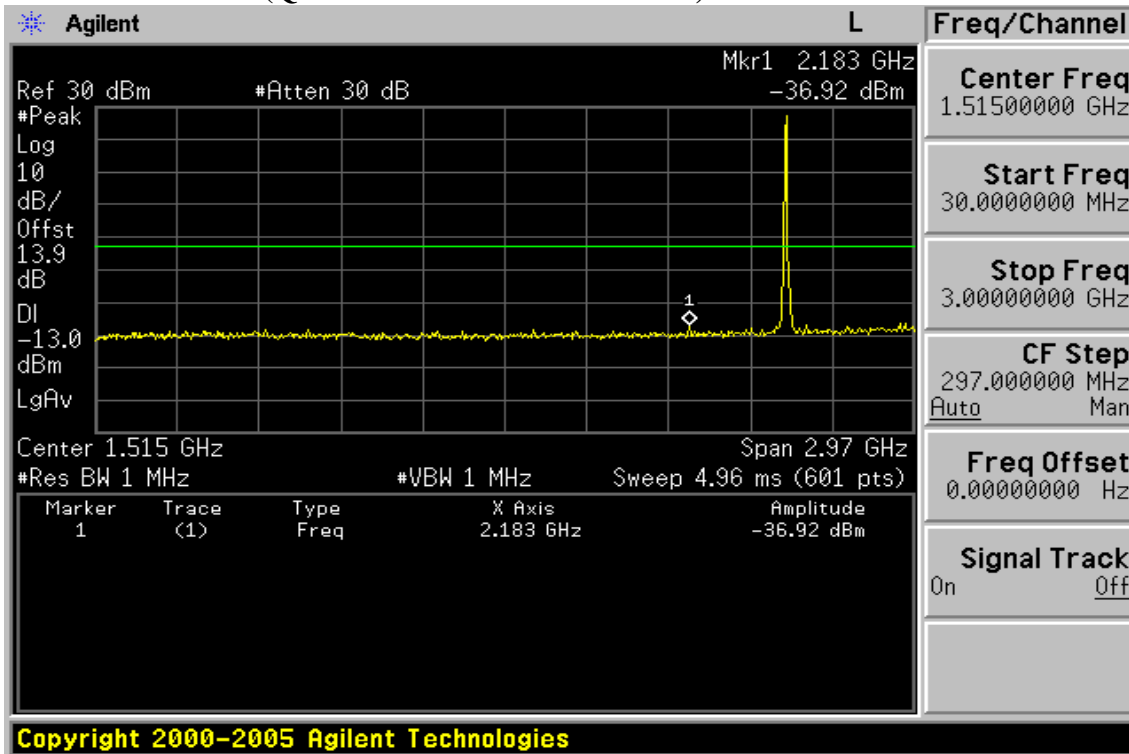
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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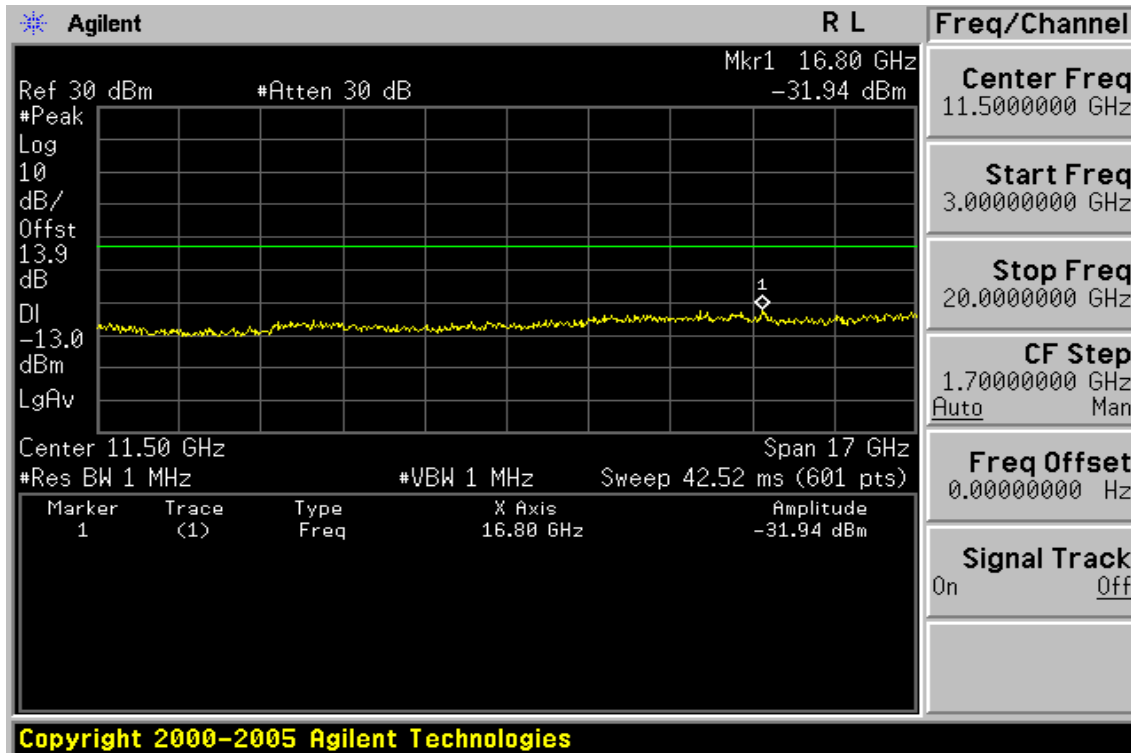
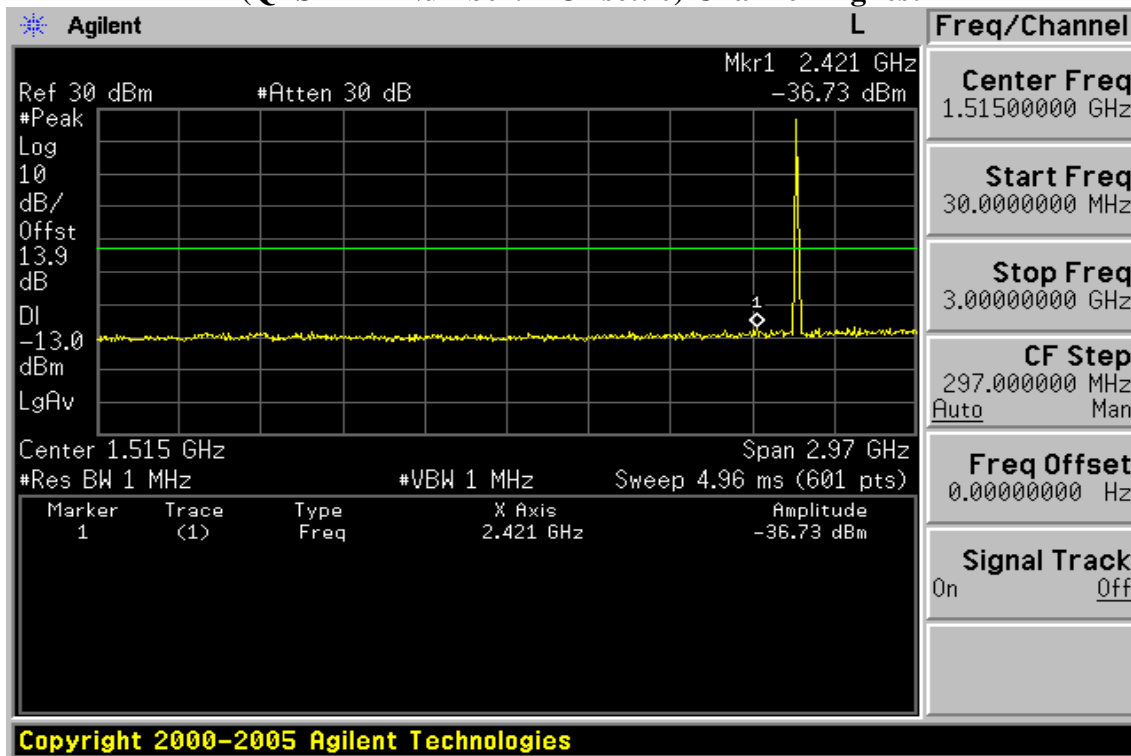
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**

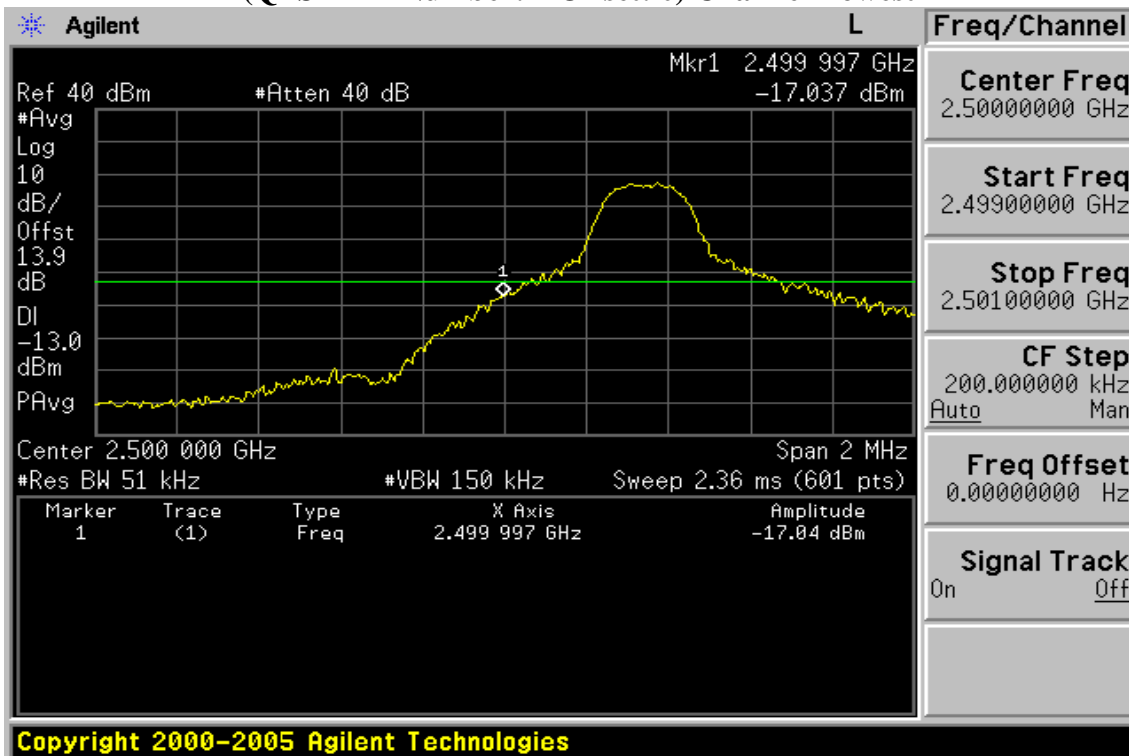


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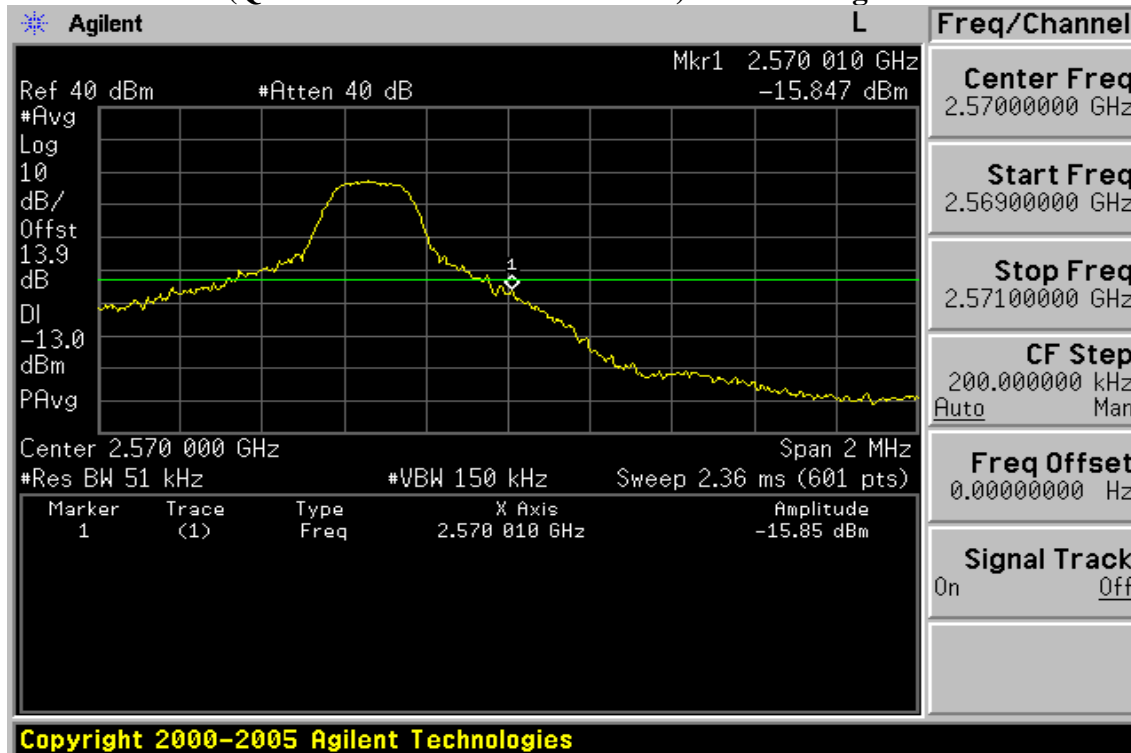
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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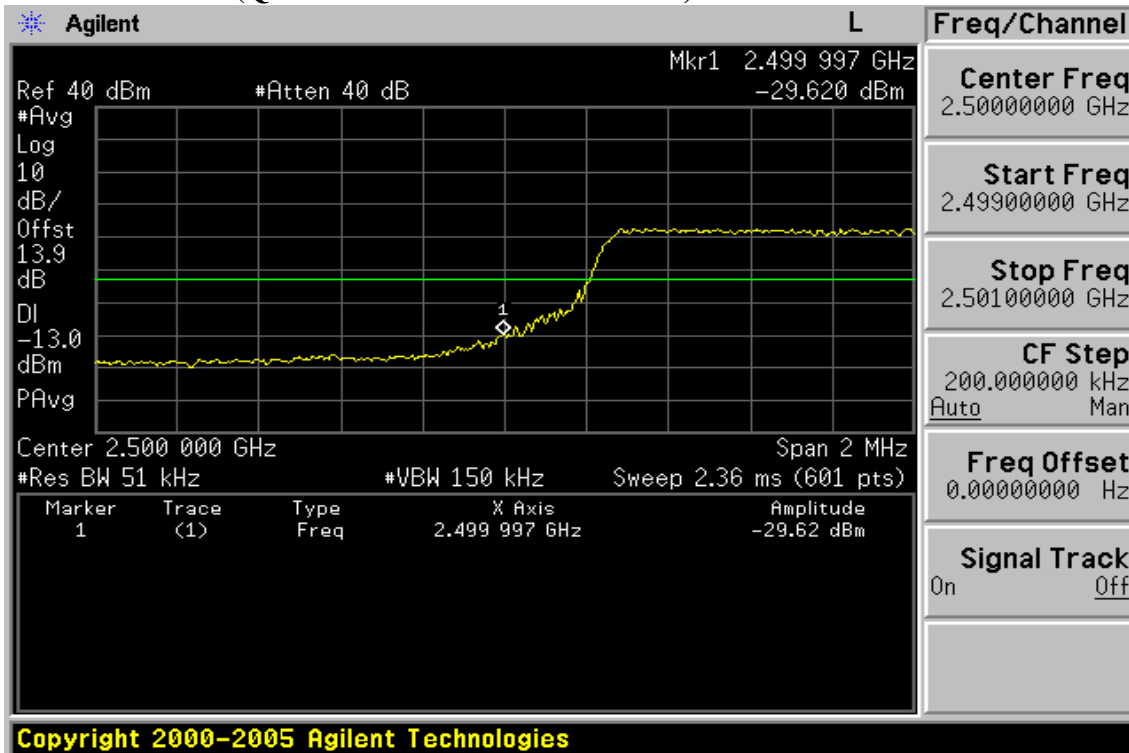
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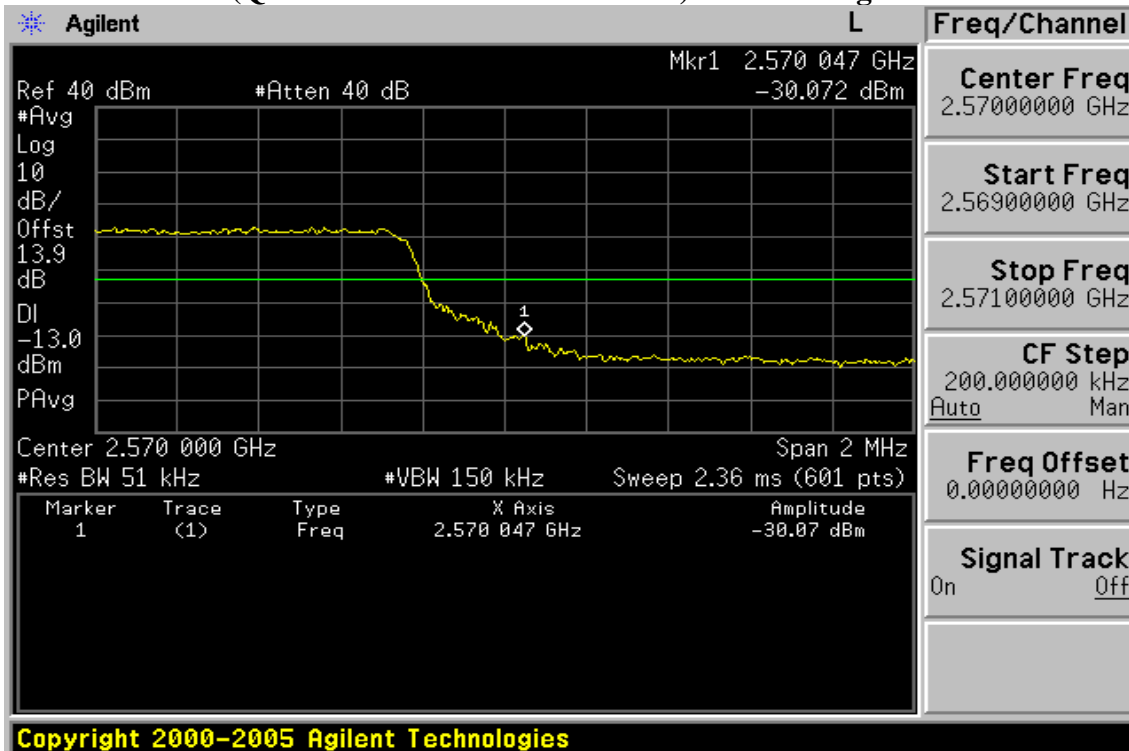
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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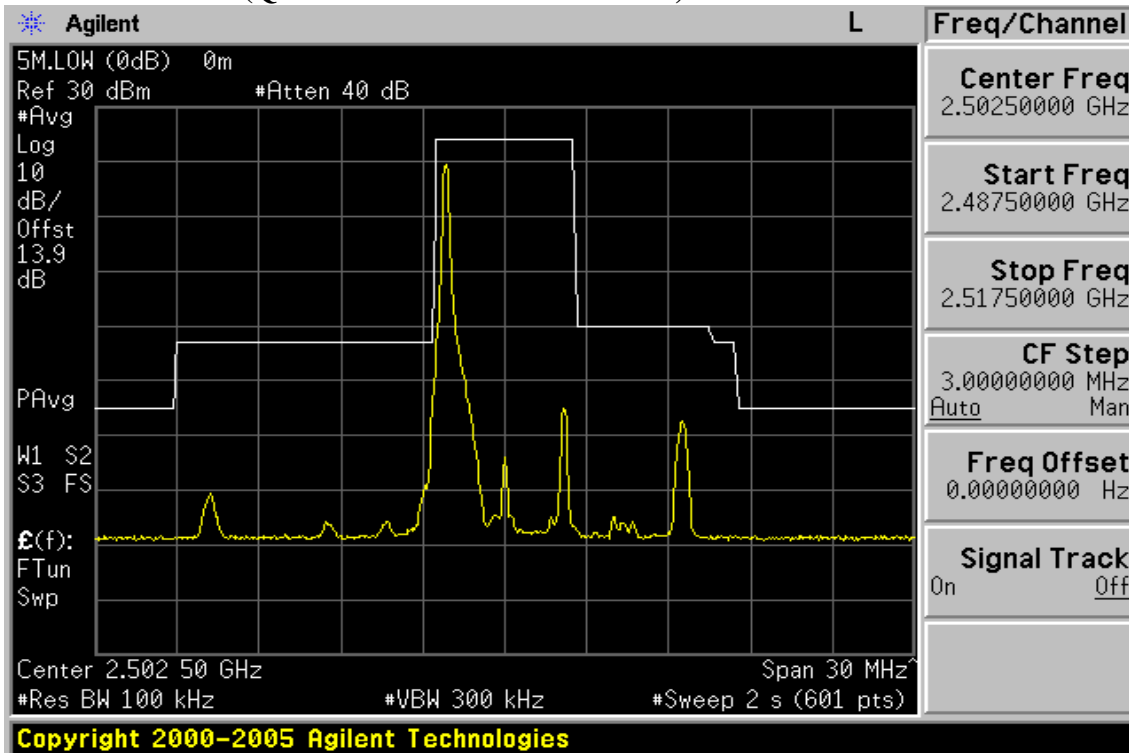
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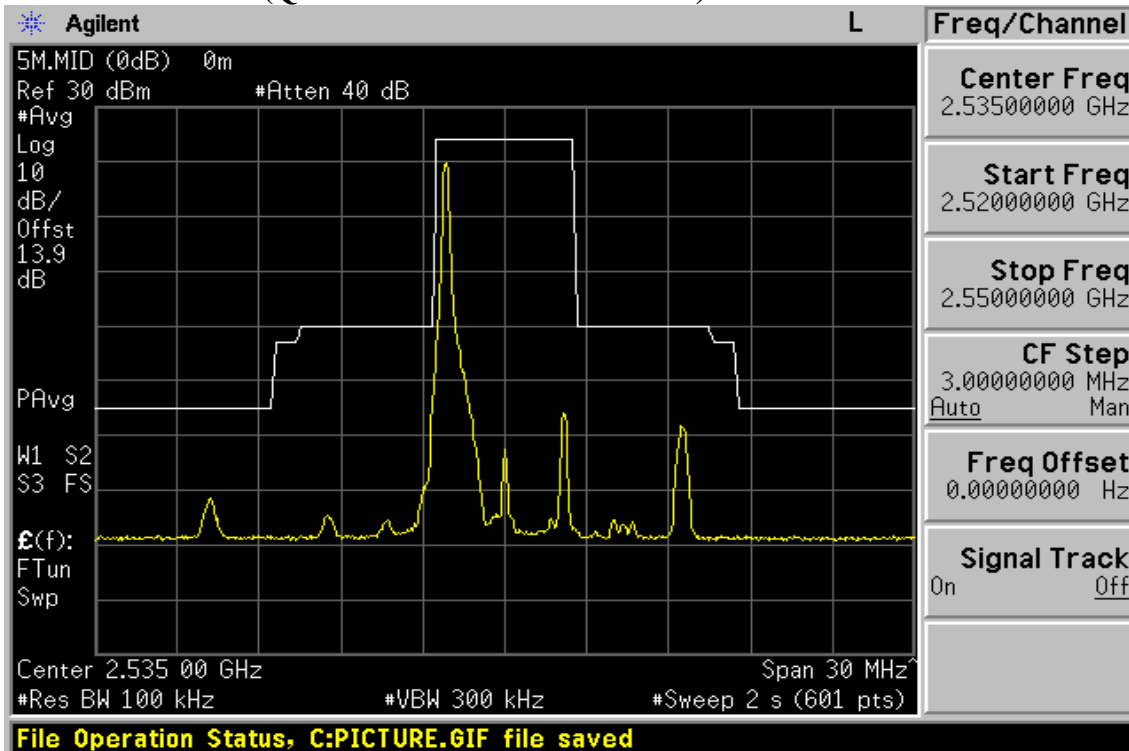
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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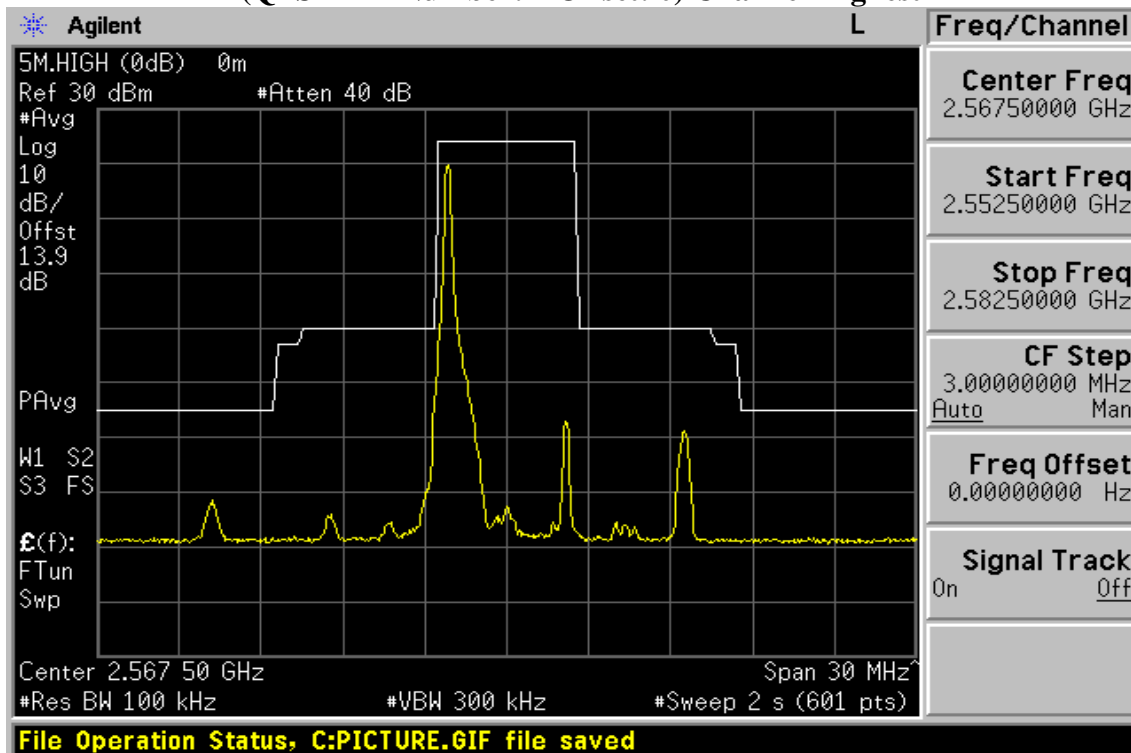
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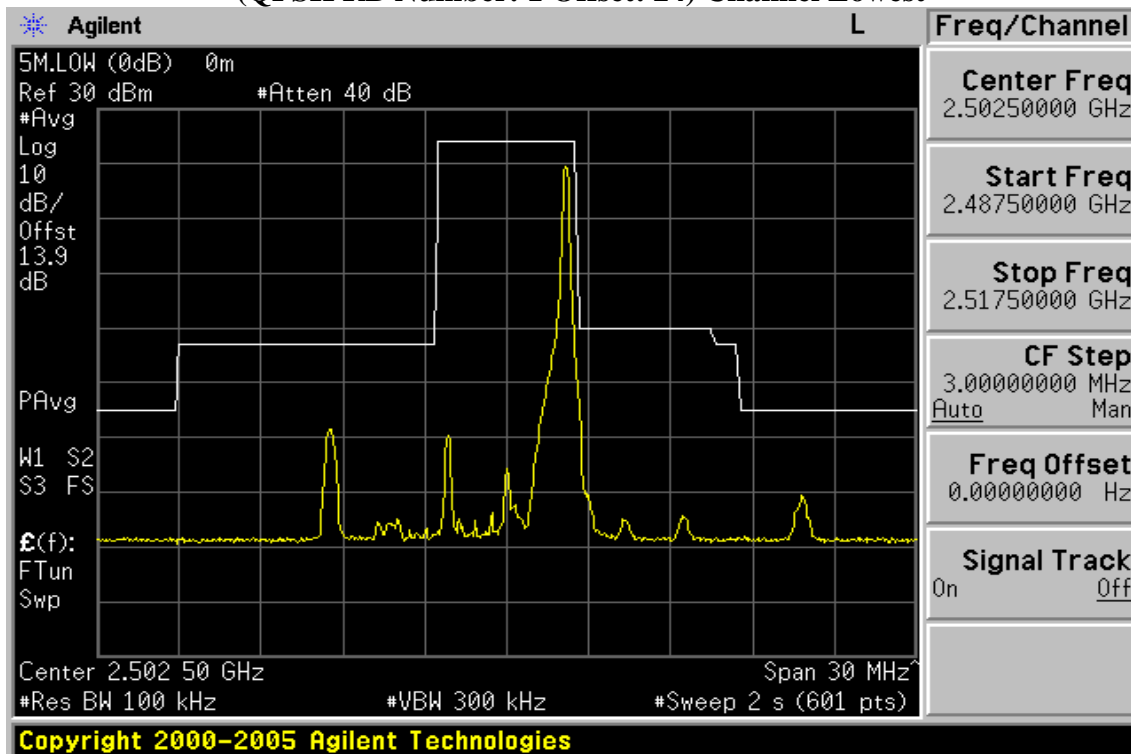
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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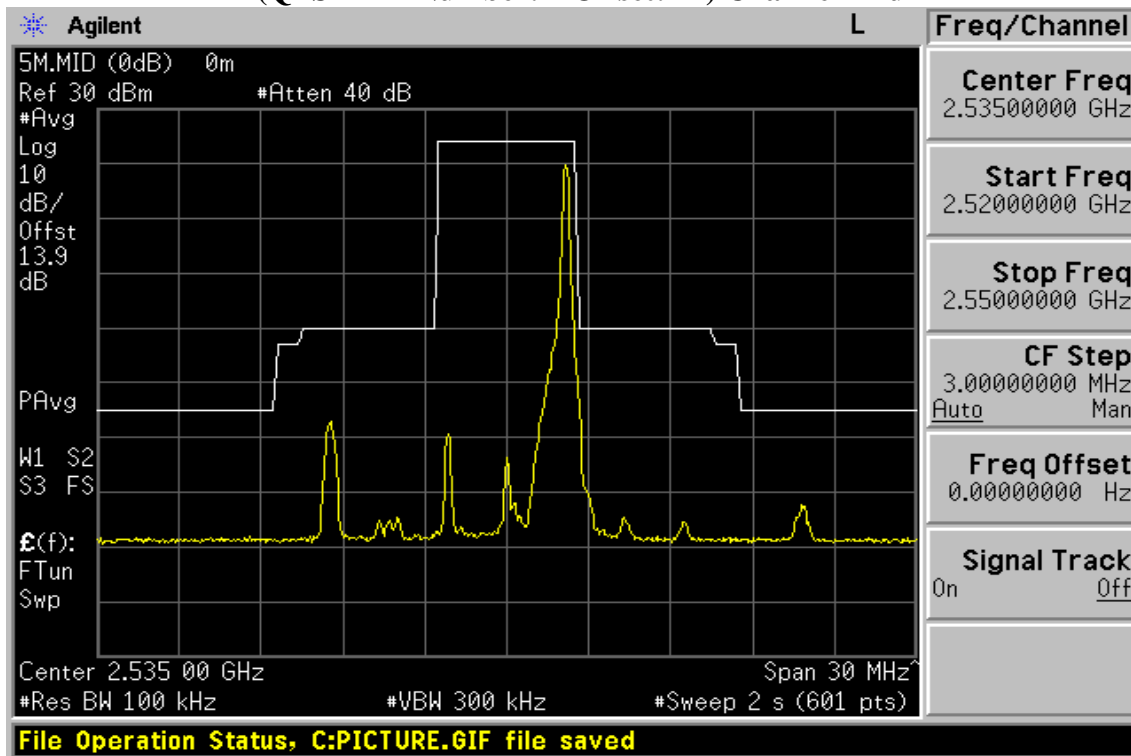
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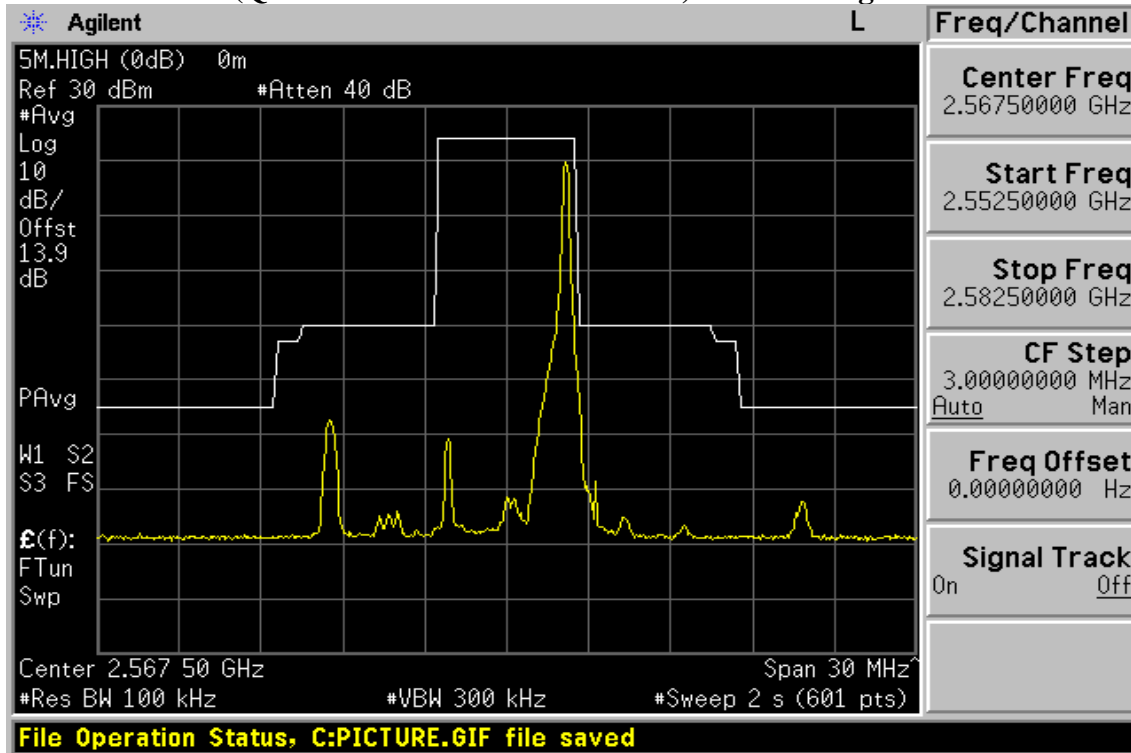
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 24) Channel Mid**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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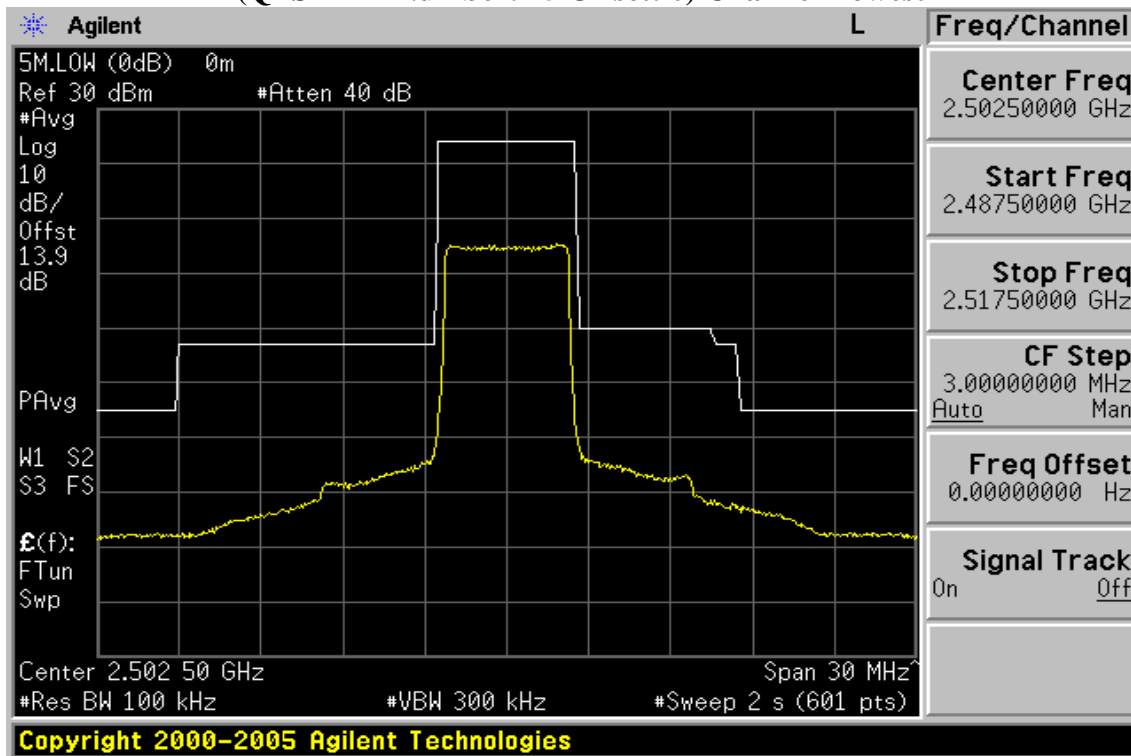
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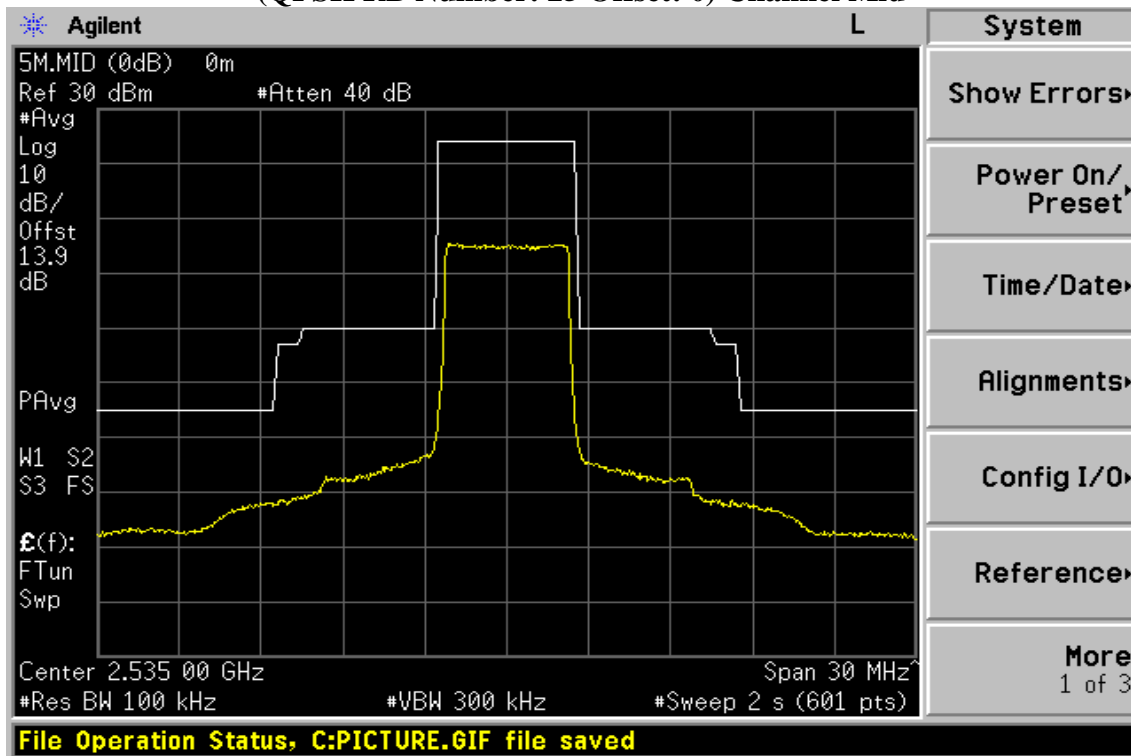
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 25 Offset: 0) Channel Mid**



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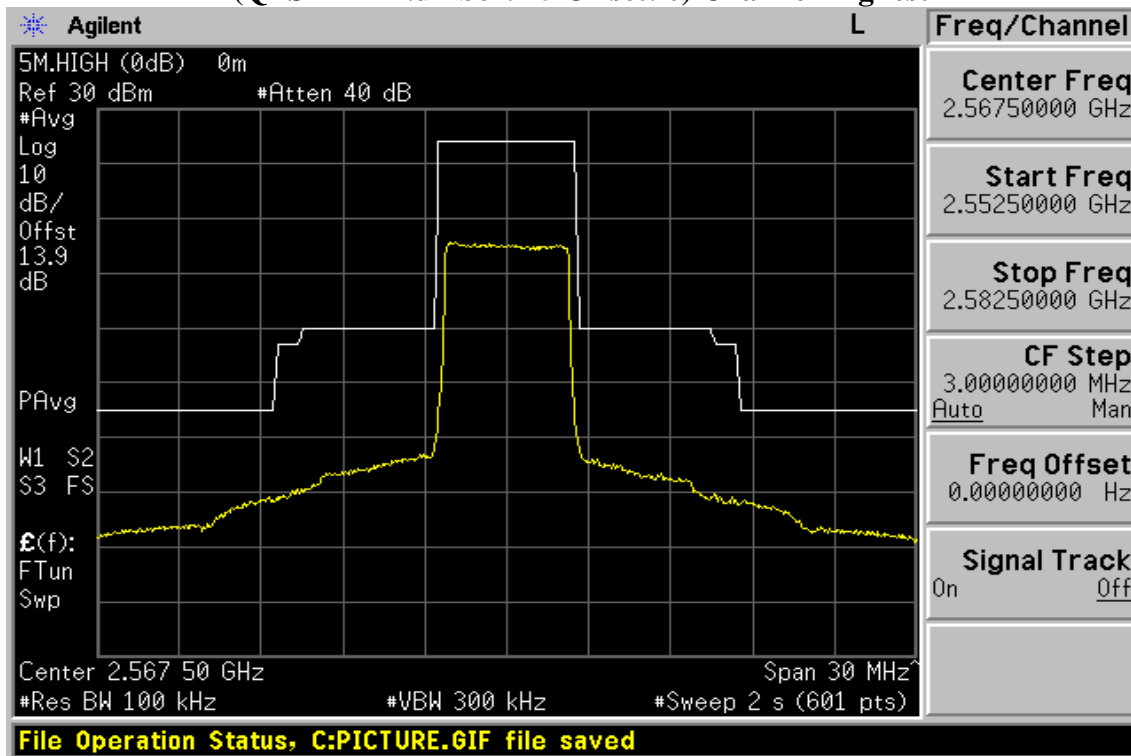
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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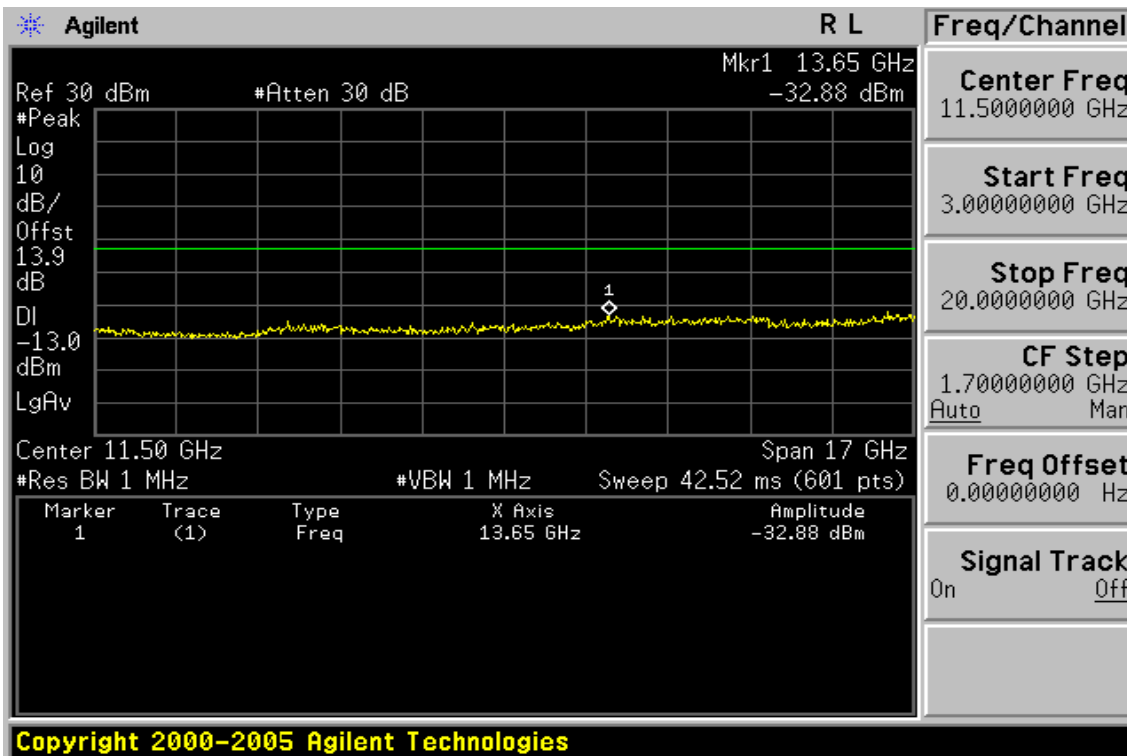
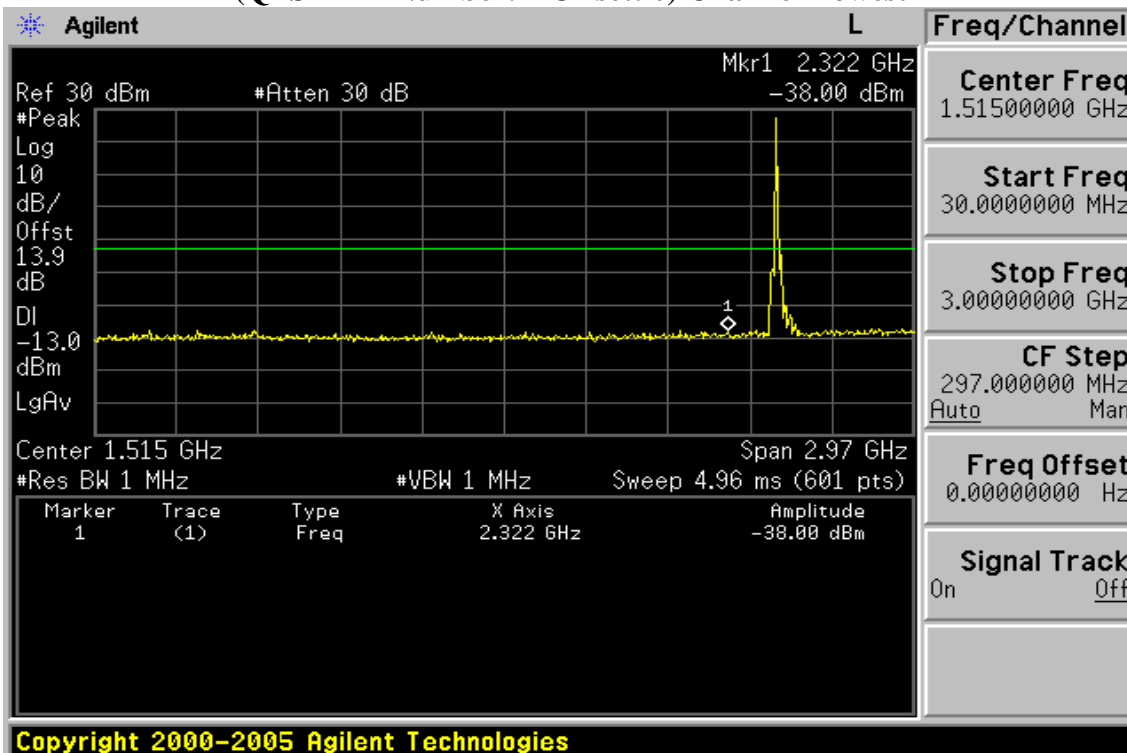
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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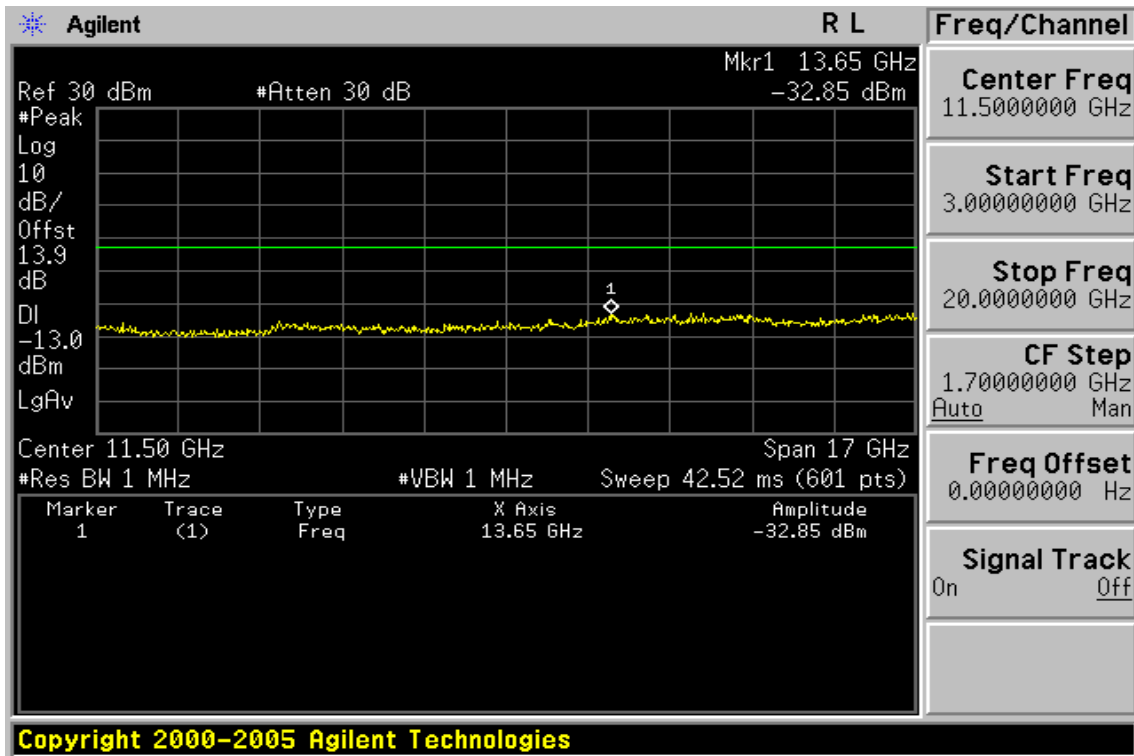
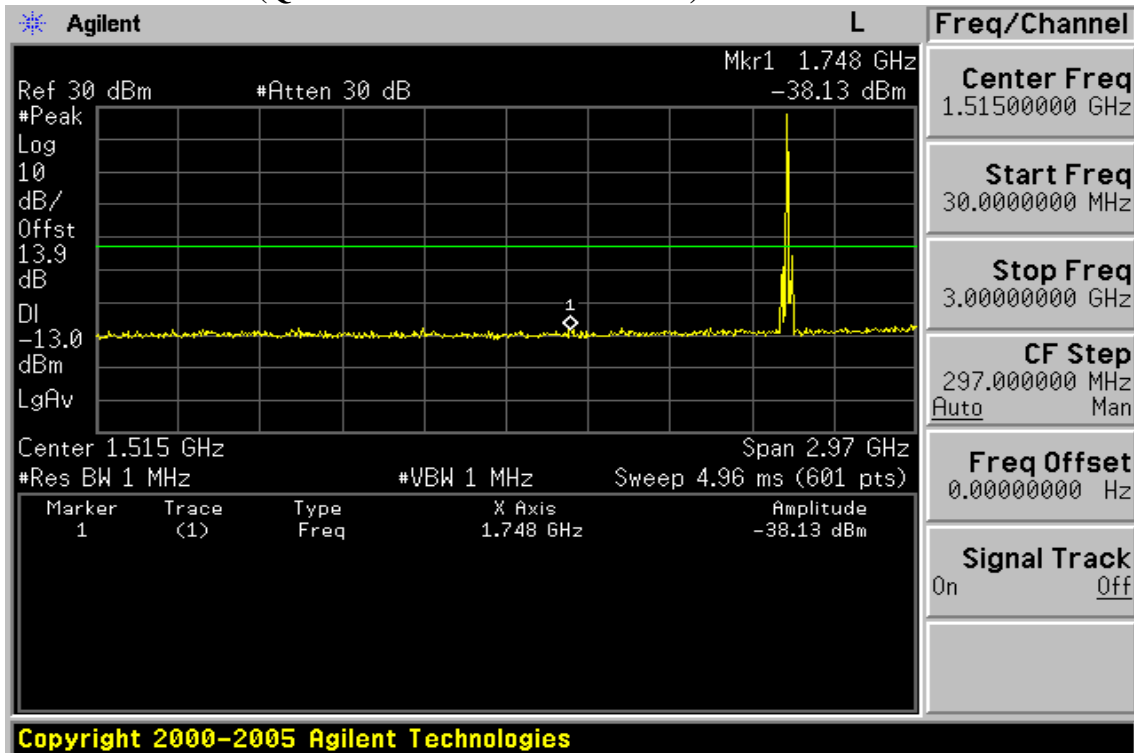
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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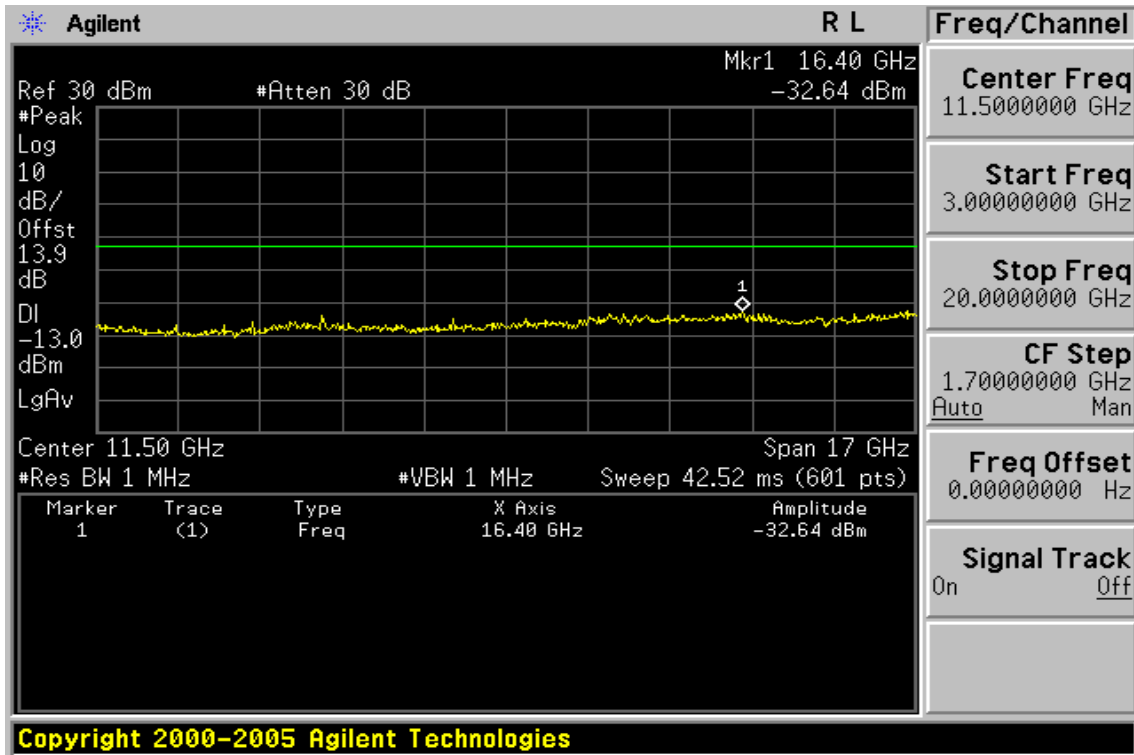
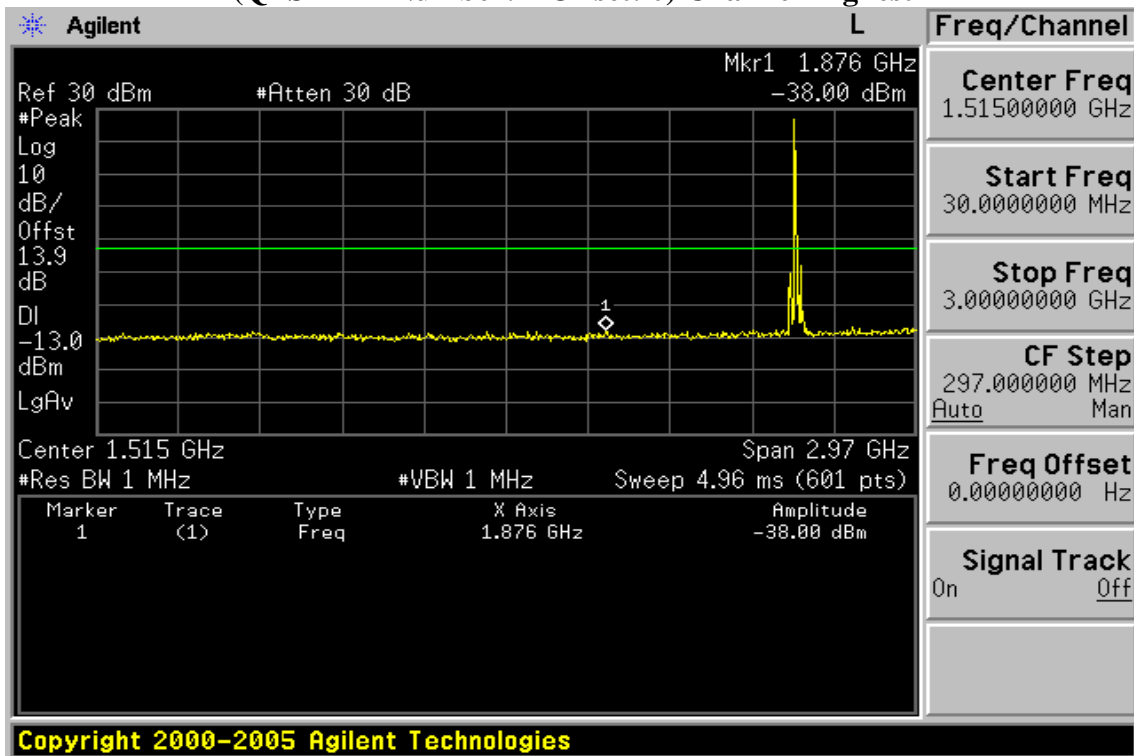
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**

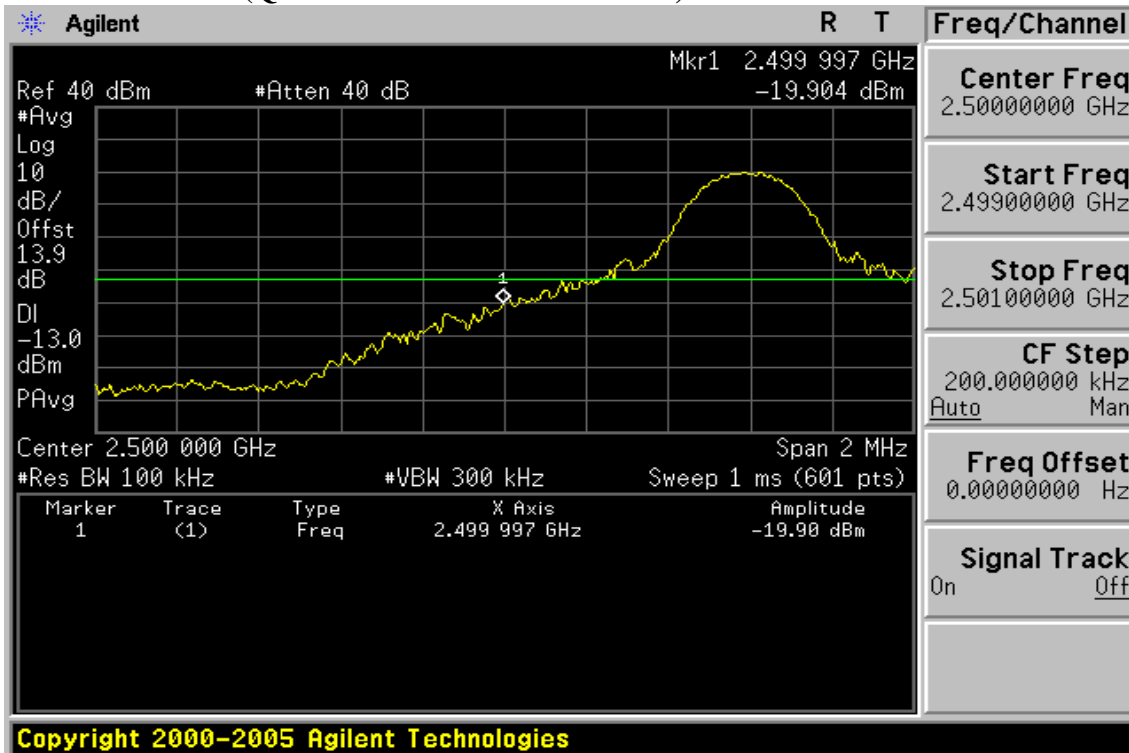


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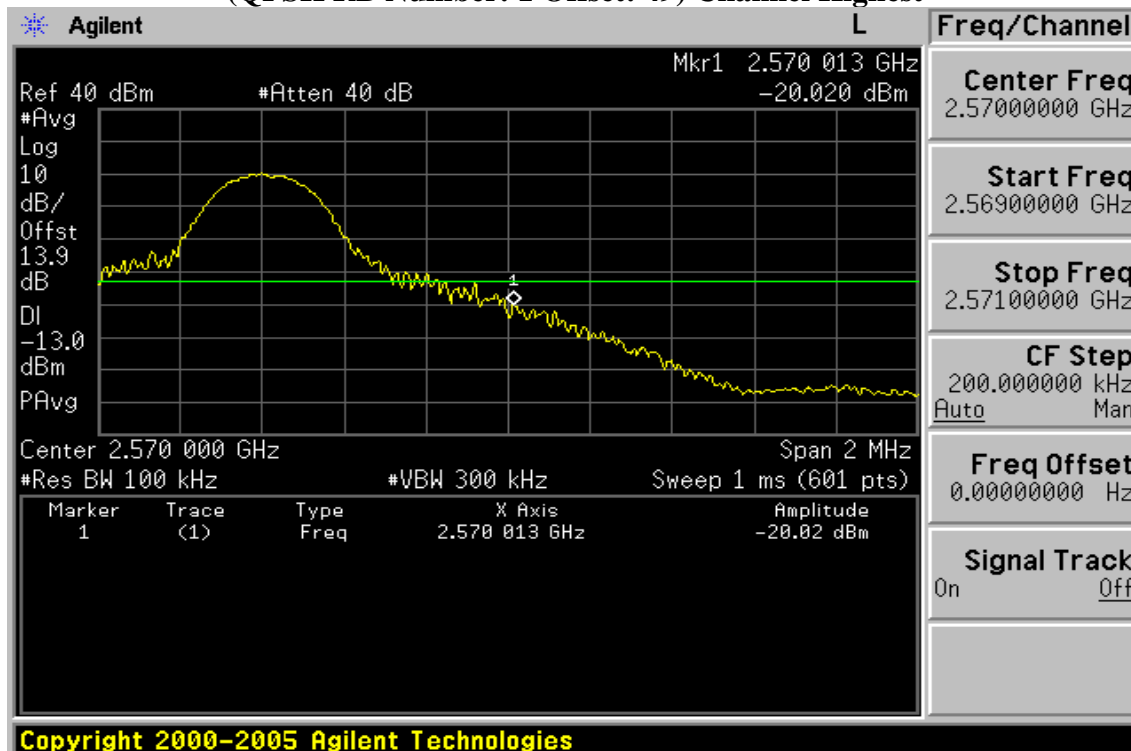
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**Band edge emission at antenna terminals -10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals -10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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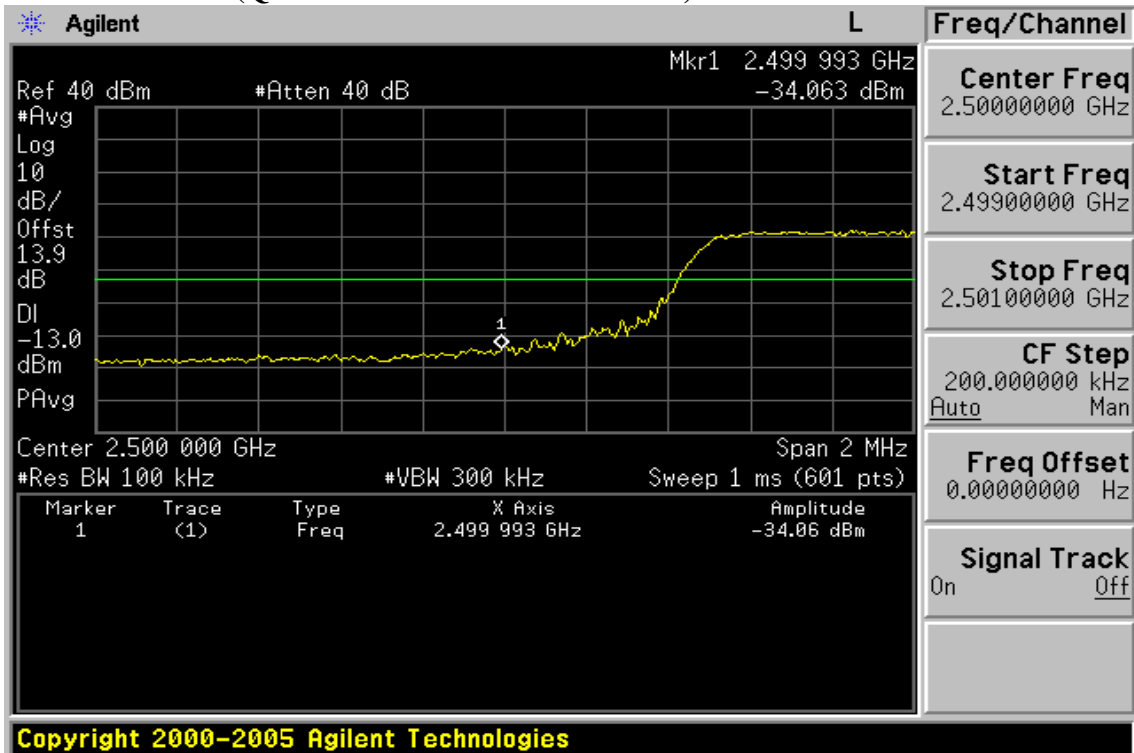
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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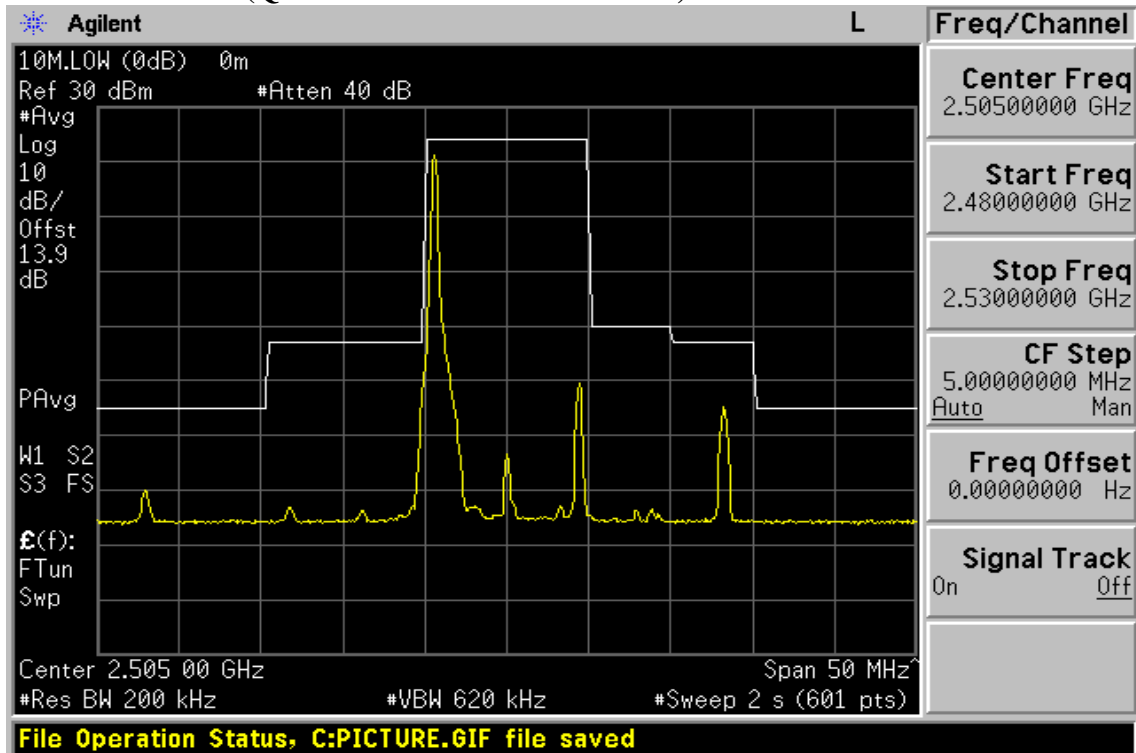
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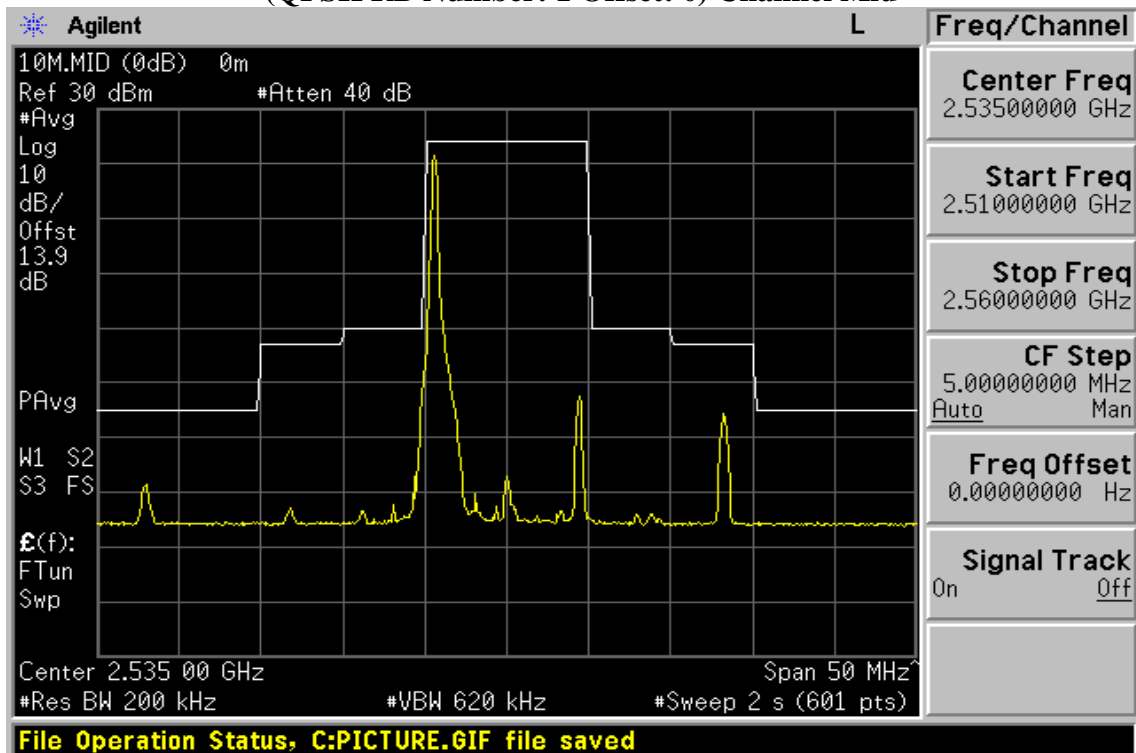
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**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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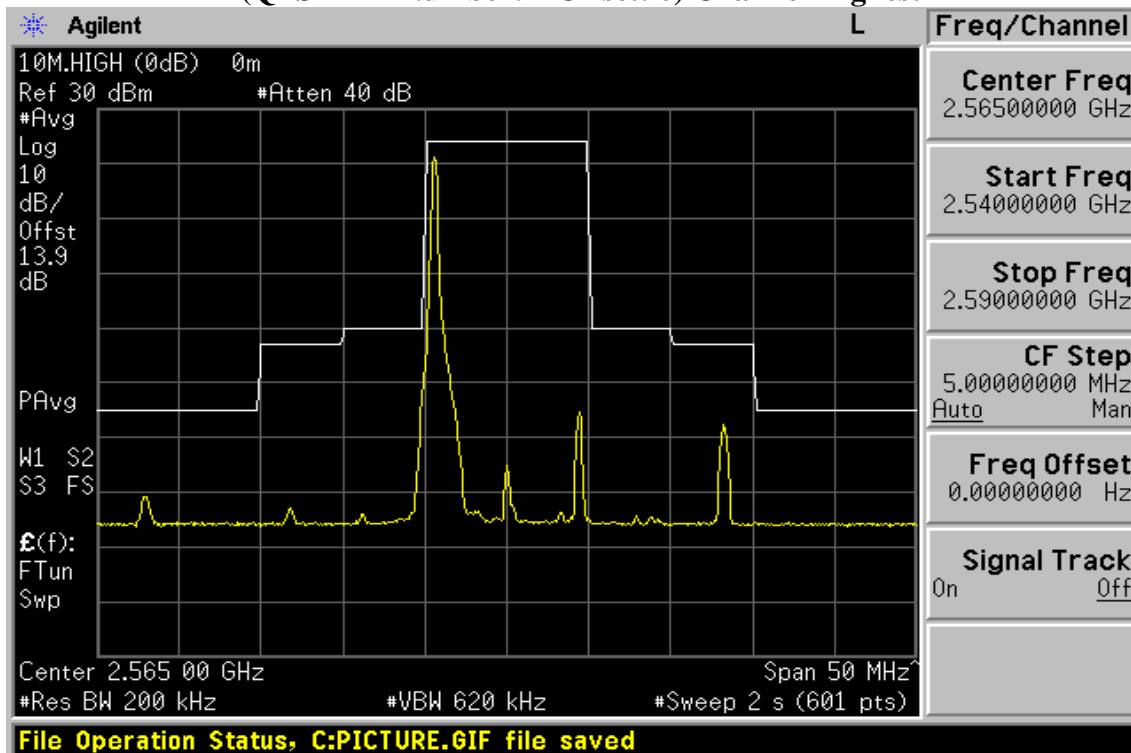
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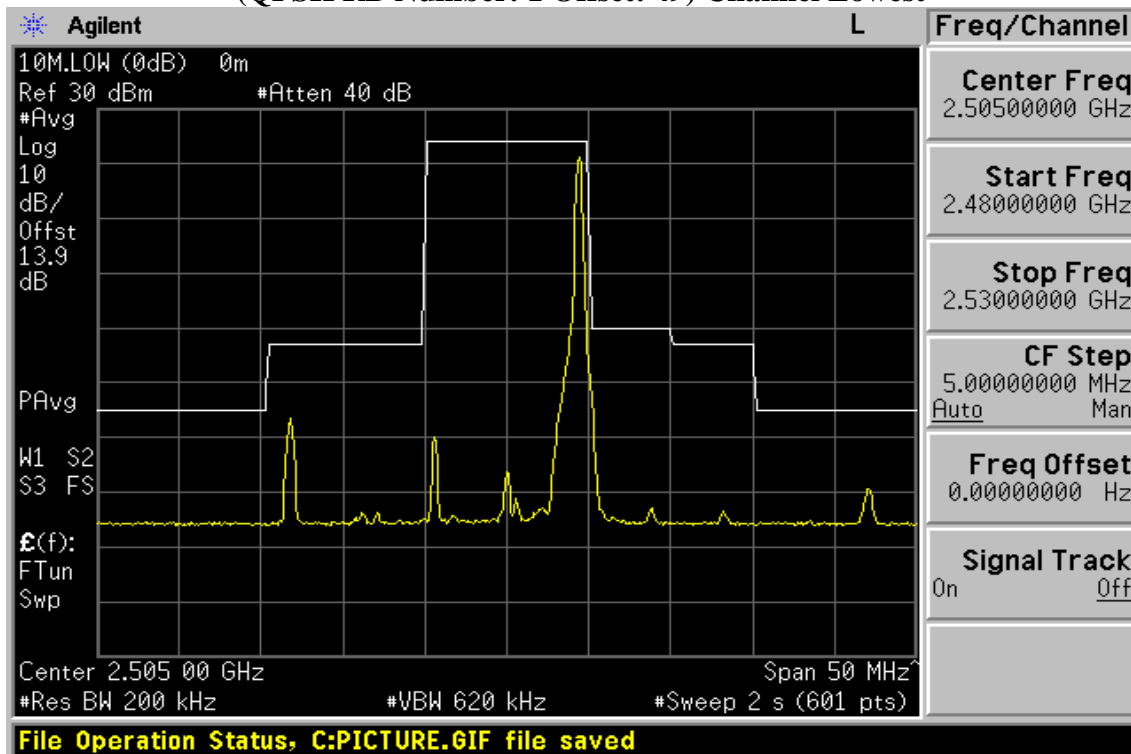
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 49) Channel Lowest**



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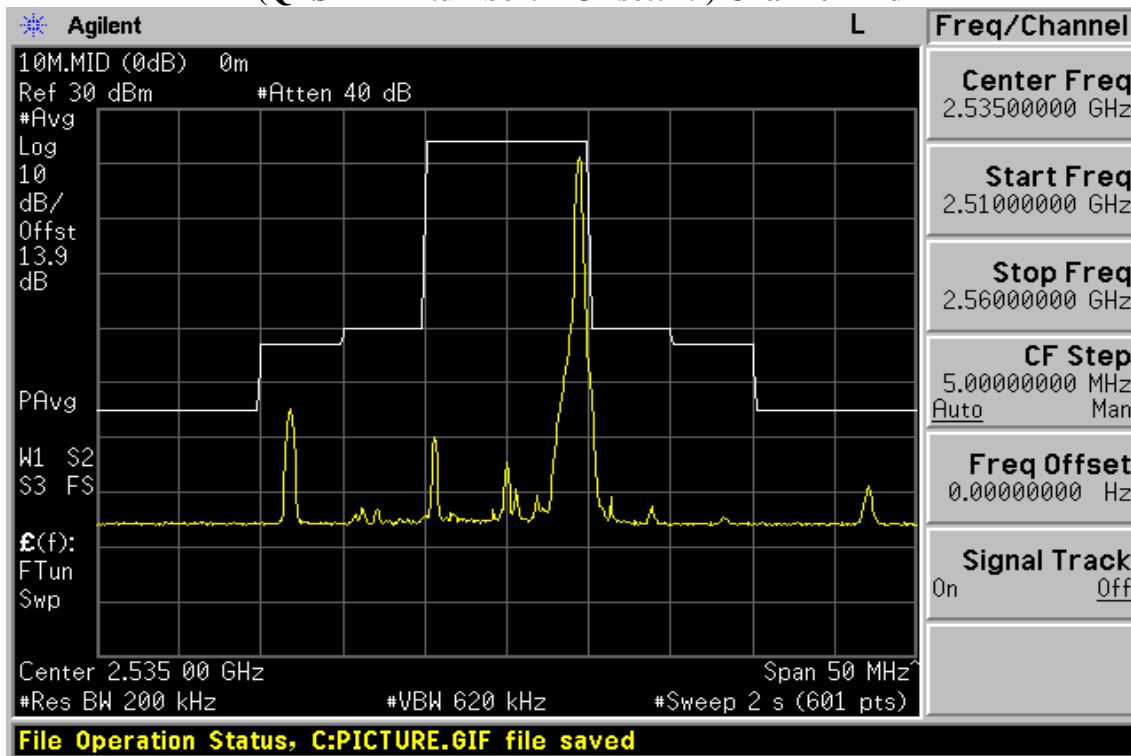
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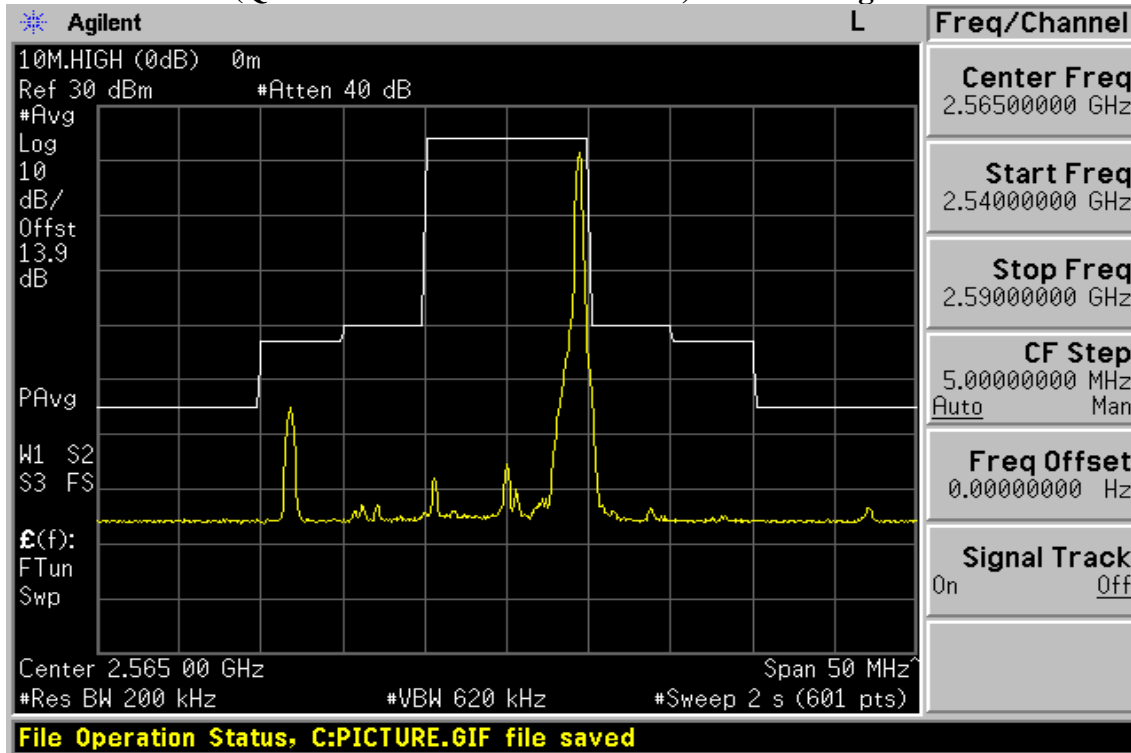
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 49) Channel Mid**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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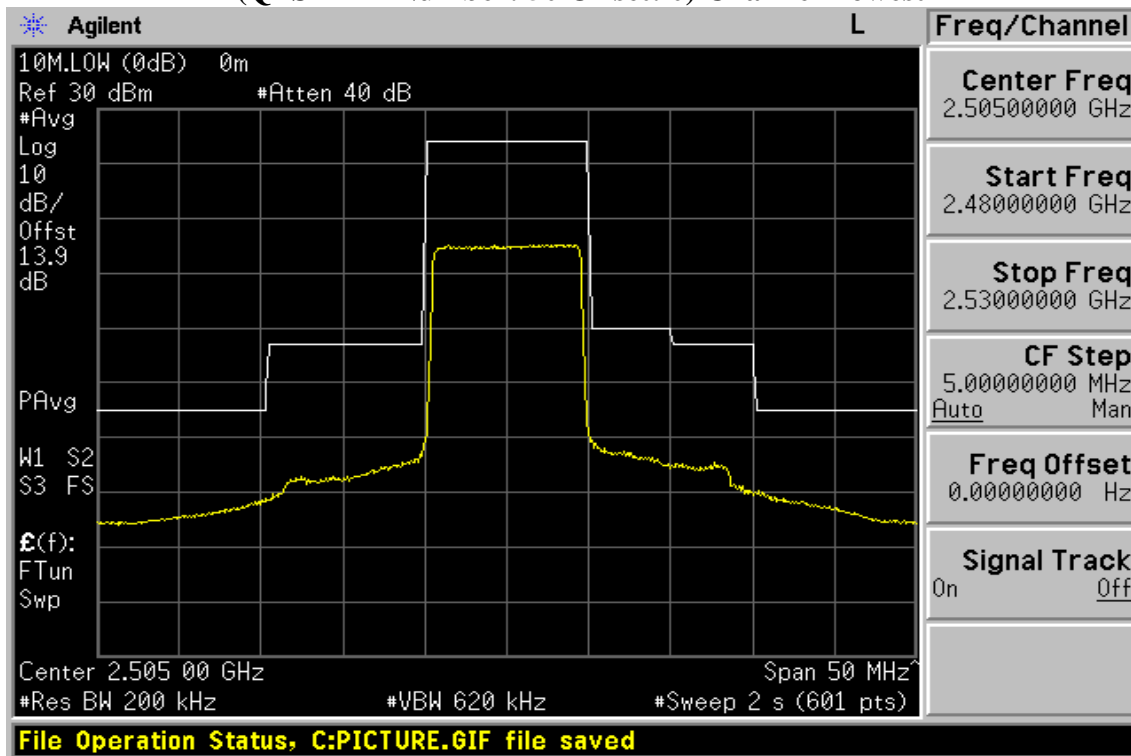
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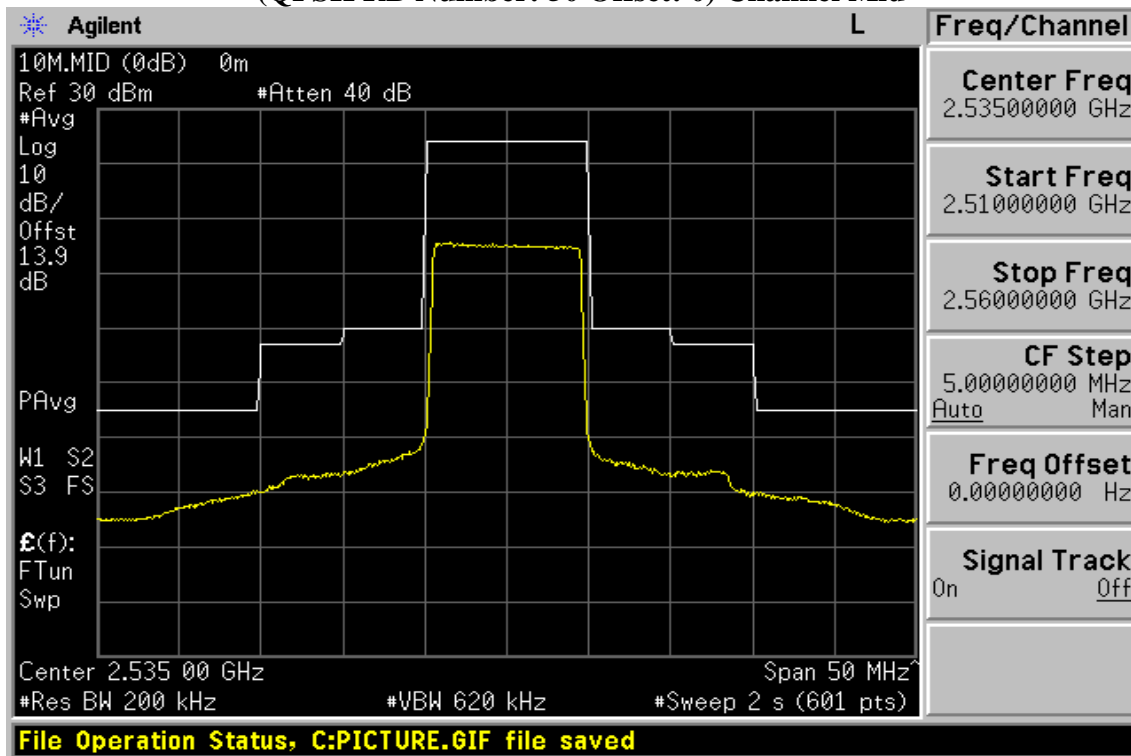
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**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 50 Offset: 0) Channel Mid**



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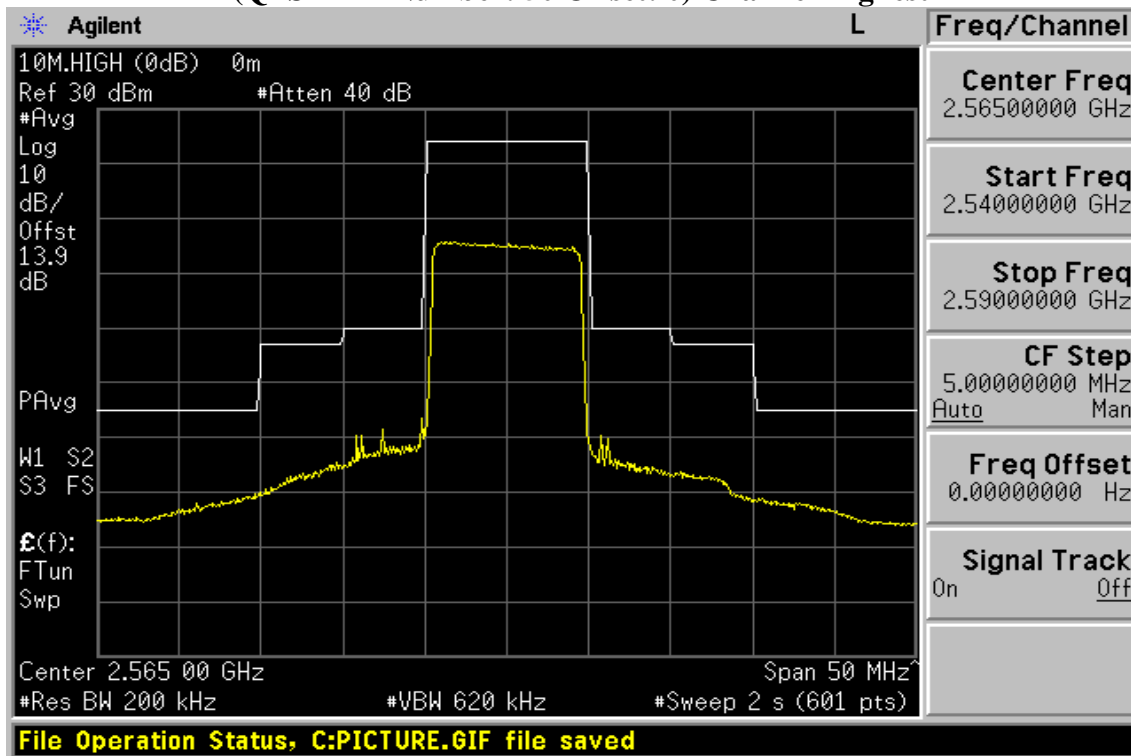
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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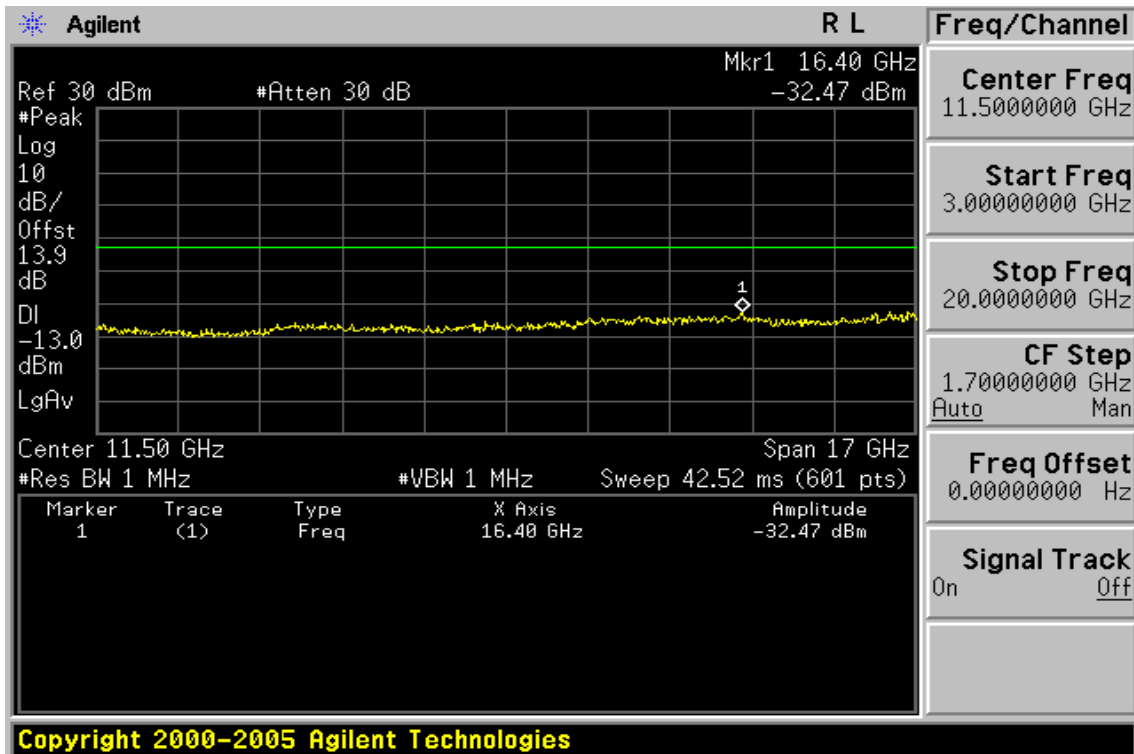
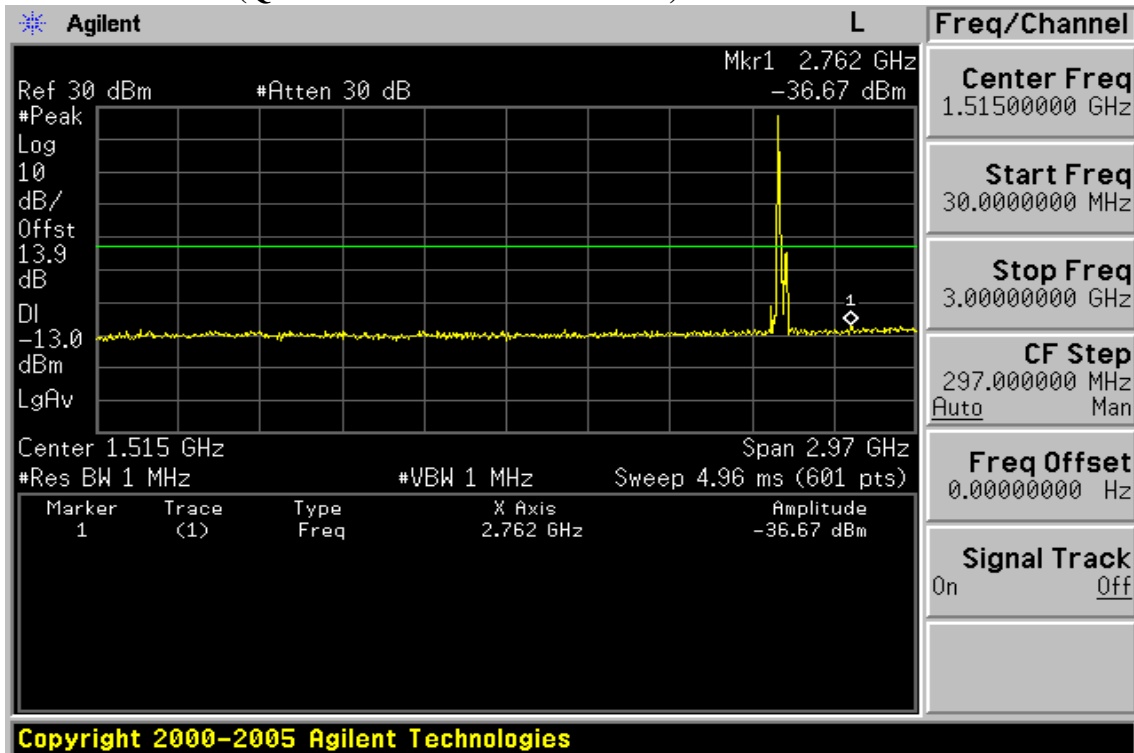
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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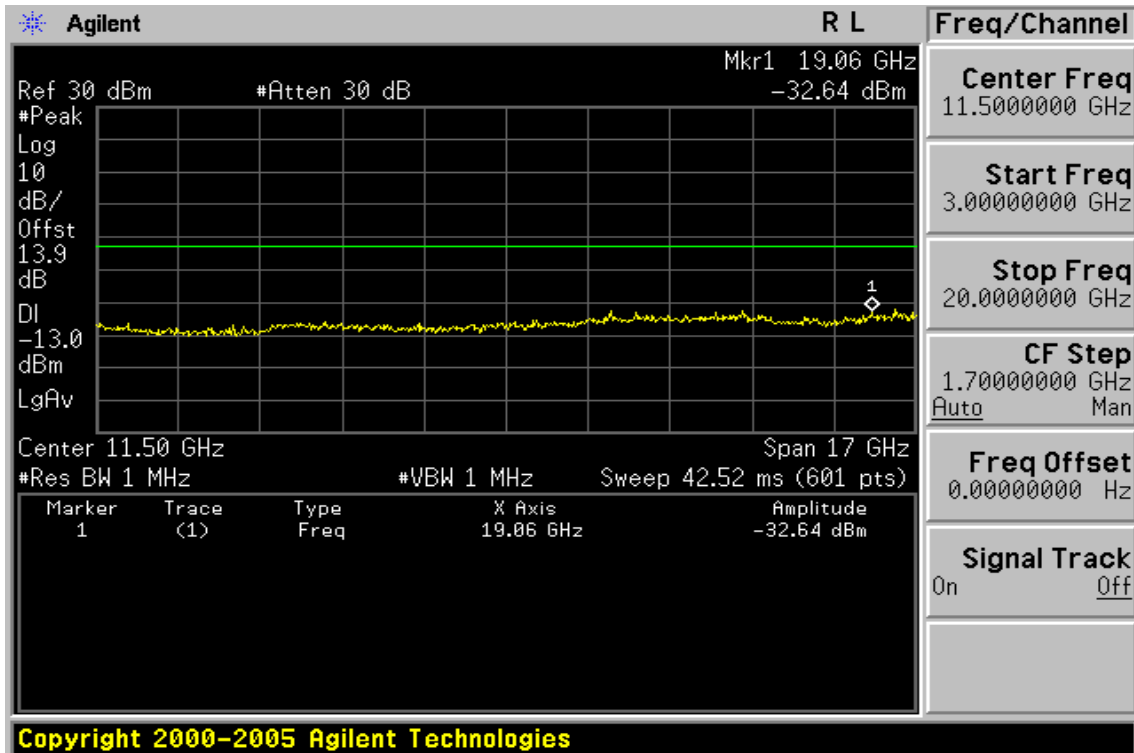
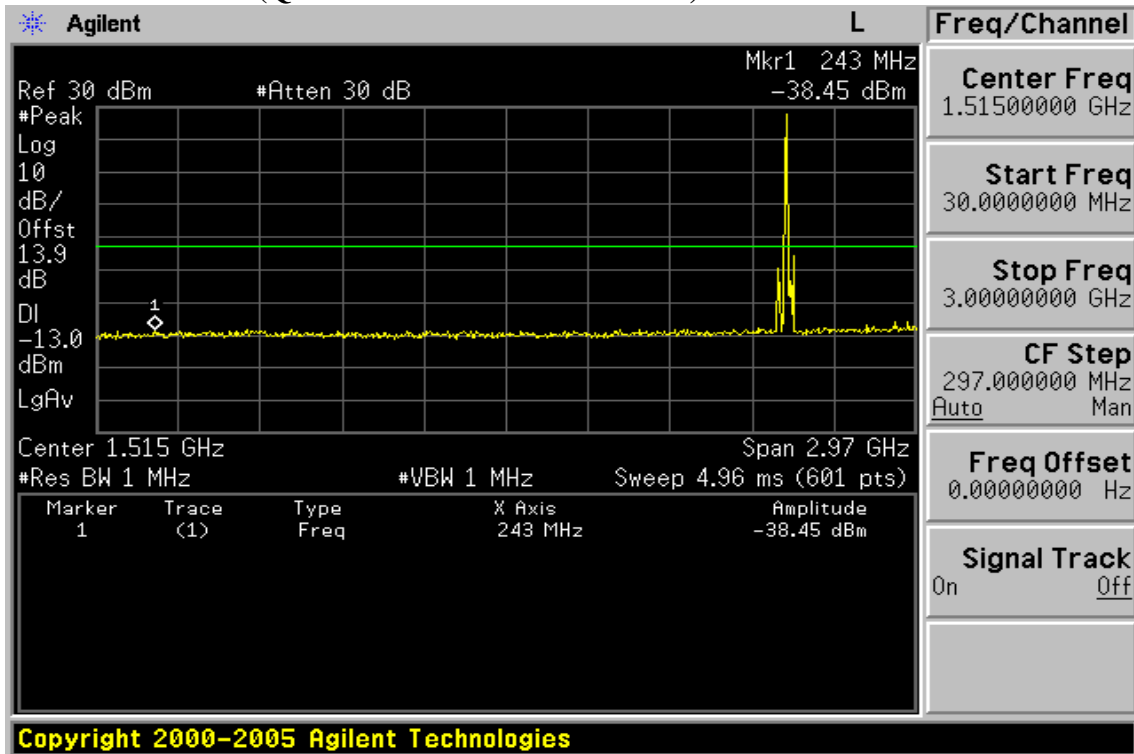
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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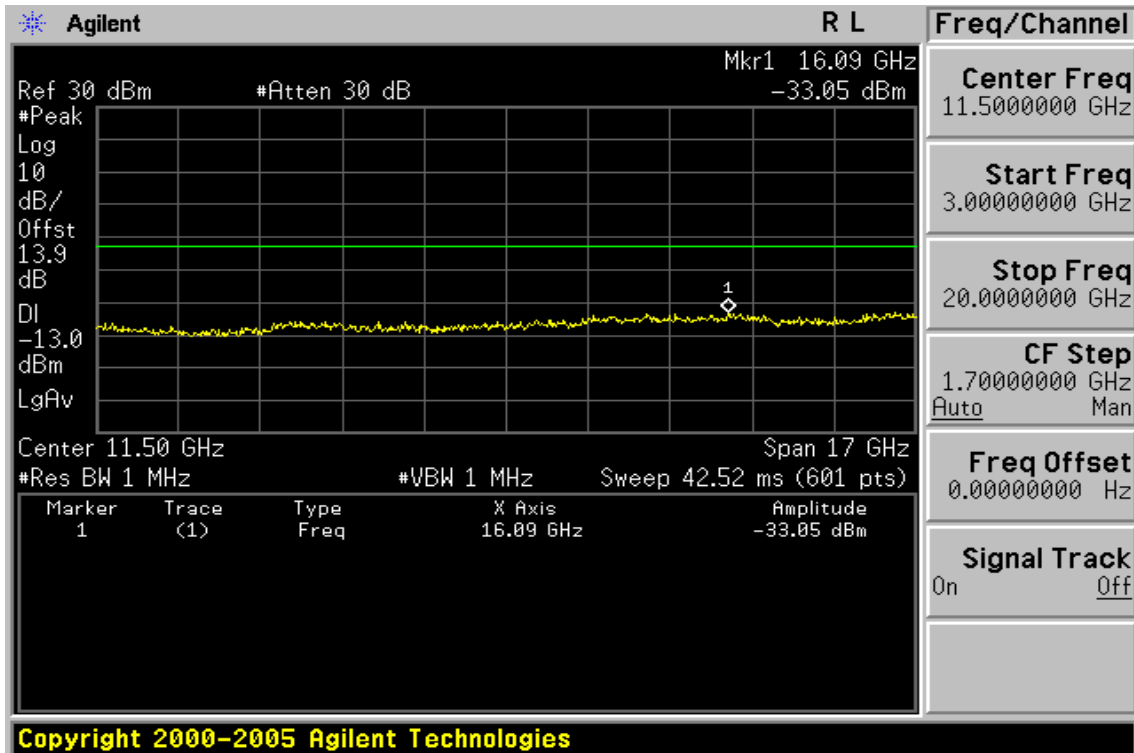
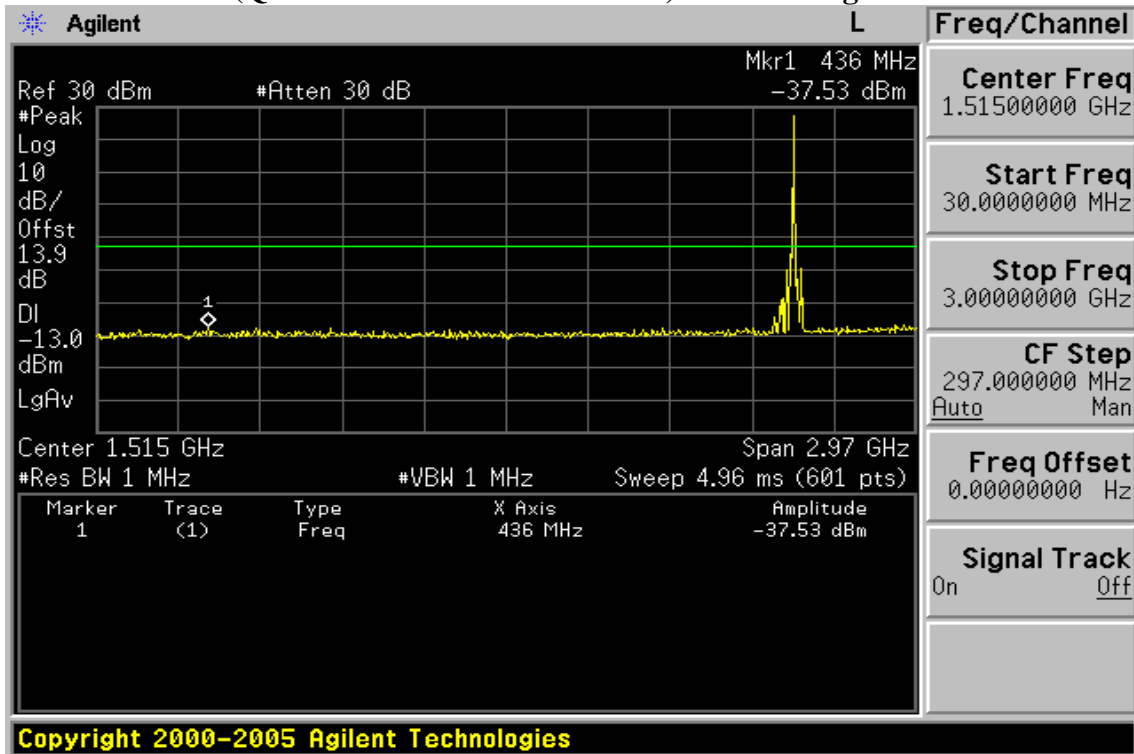
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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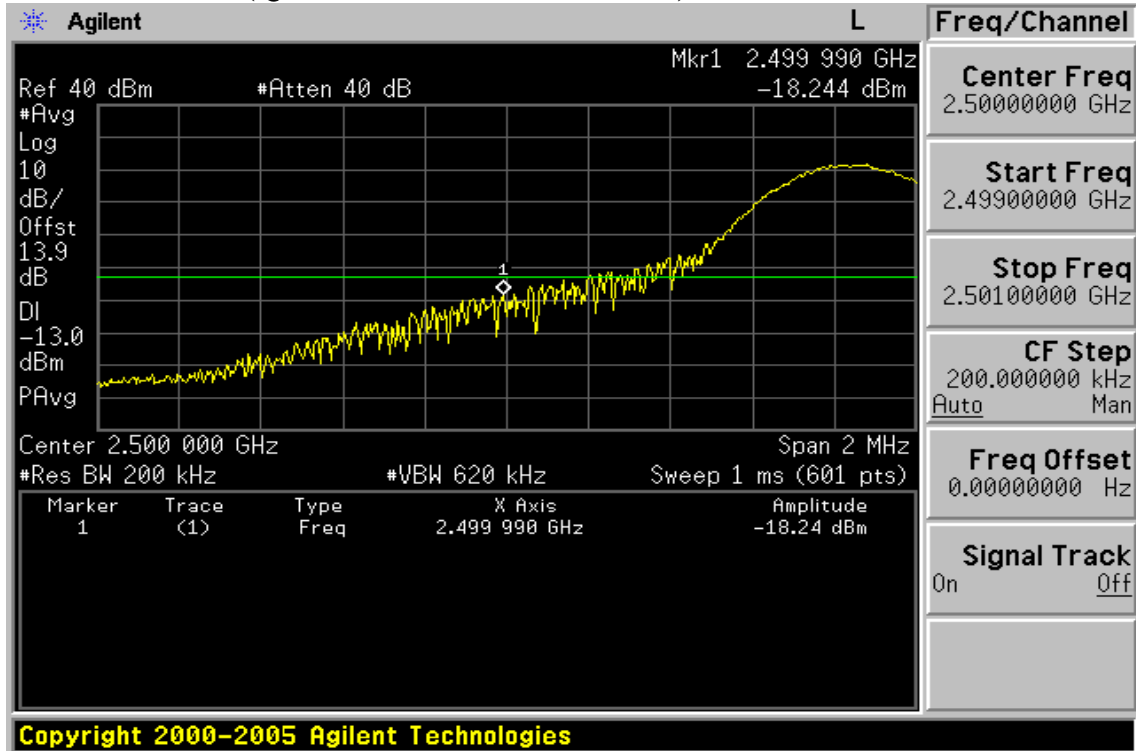
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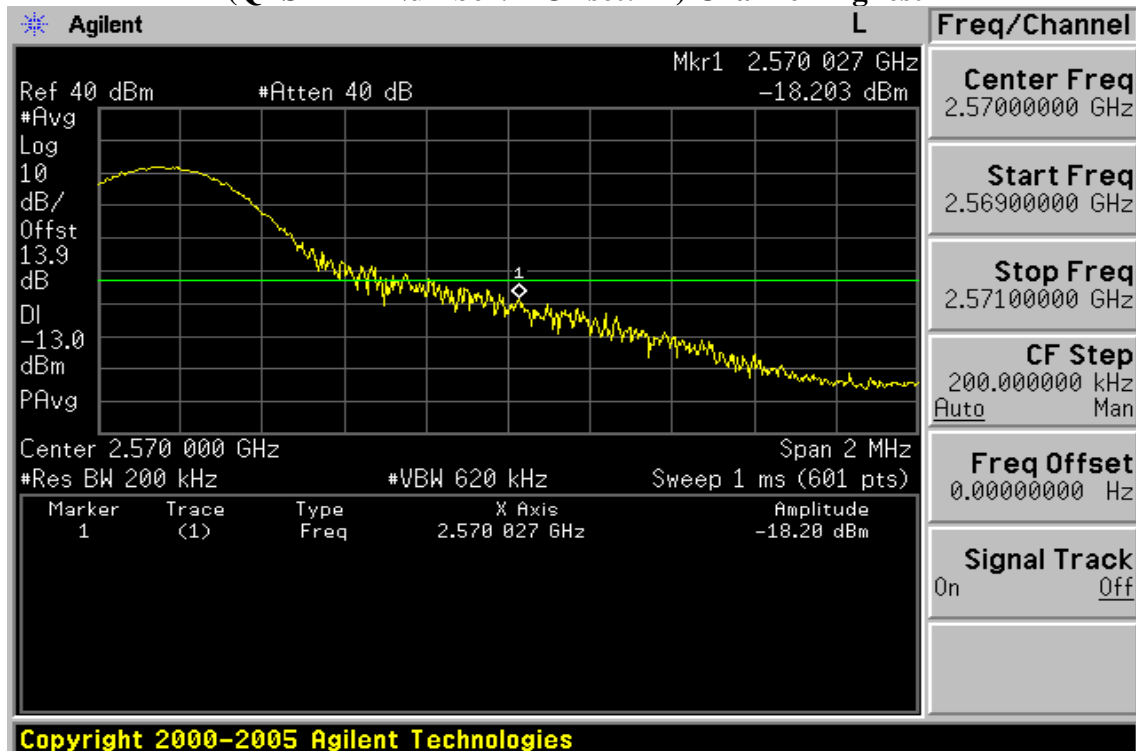
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



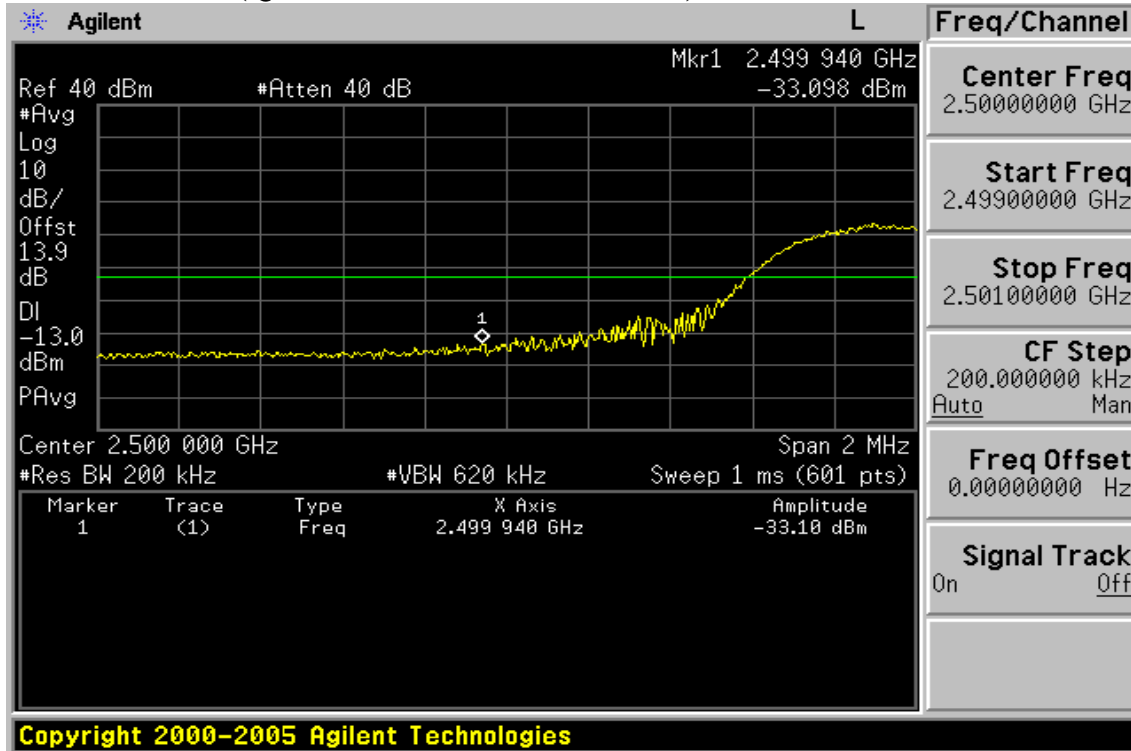
**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 74) Channel Highest**



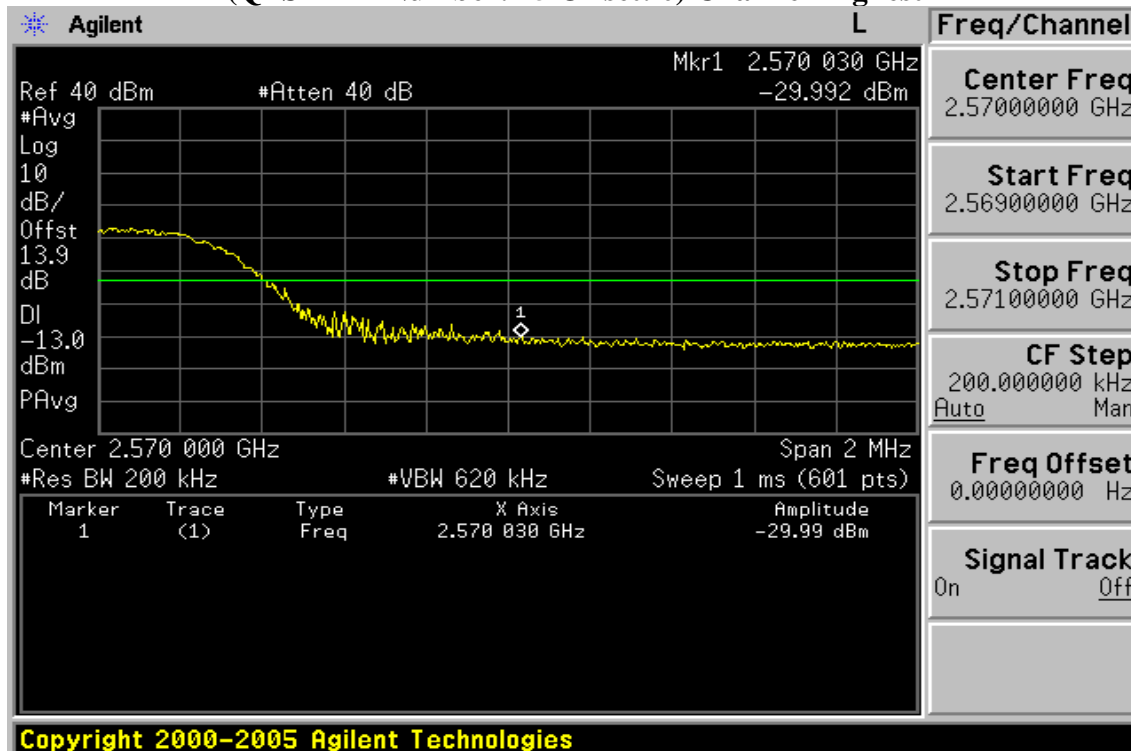
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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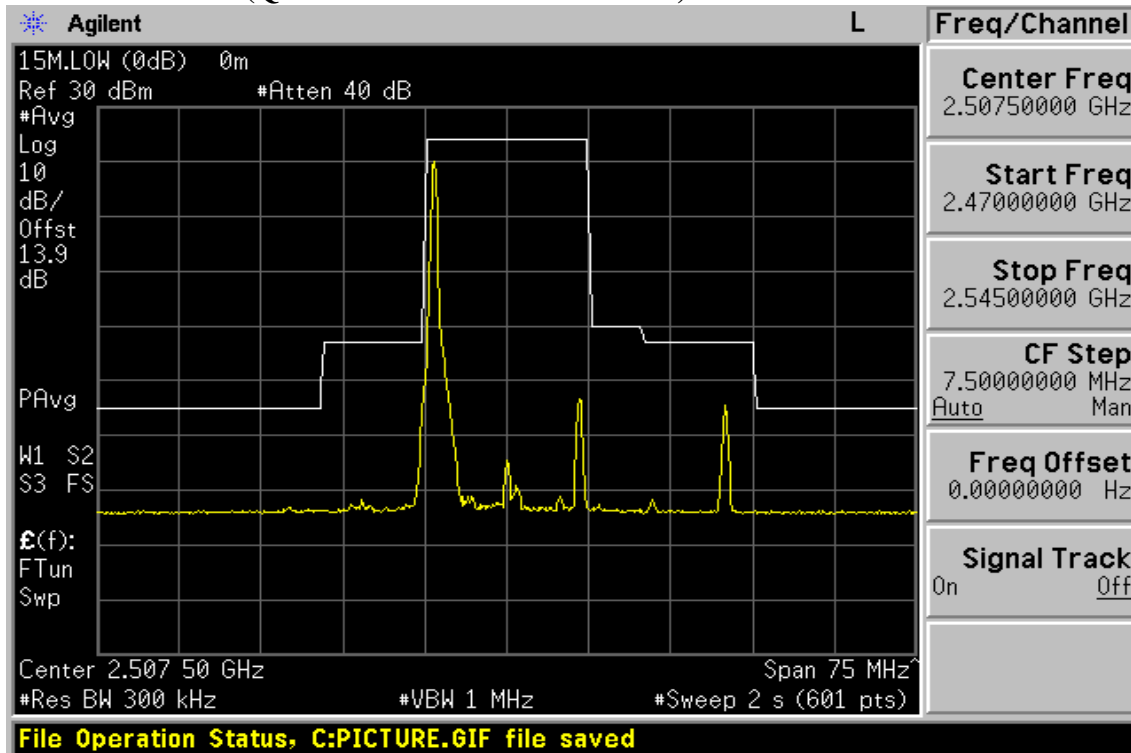
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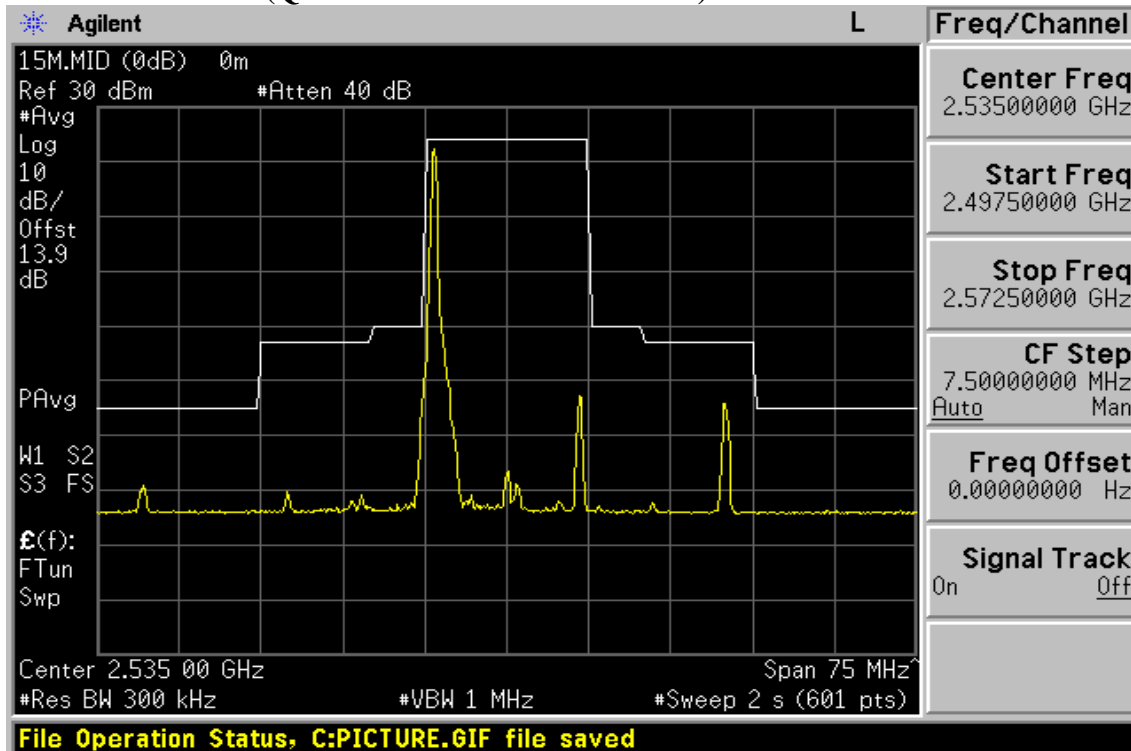
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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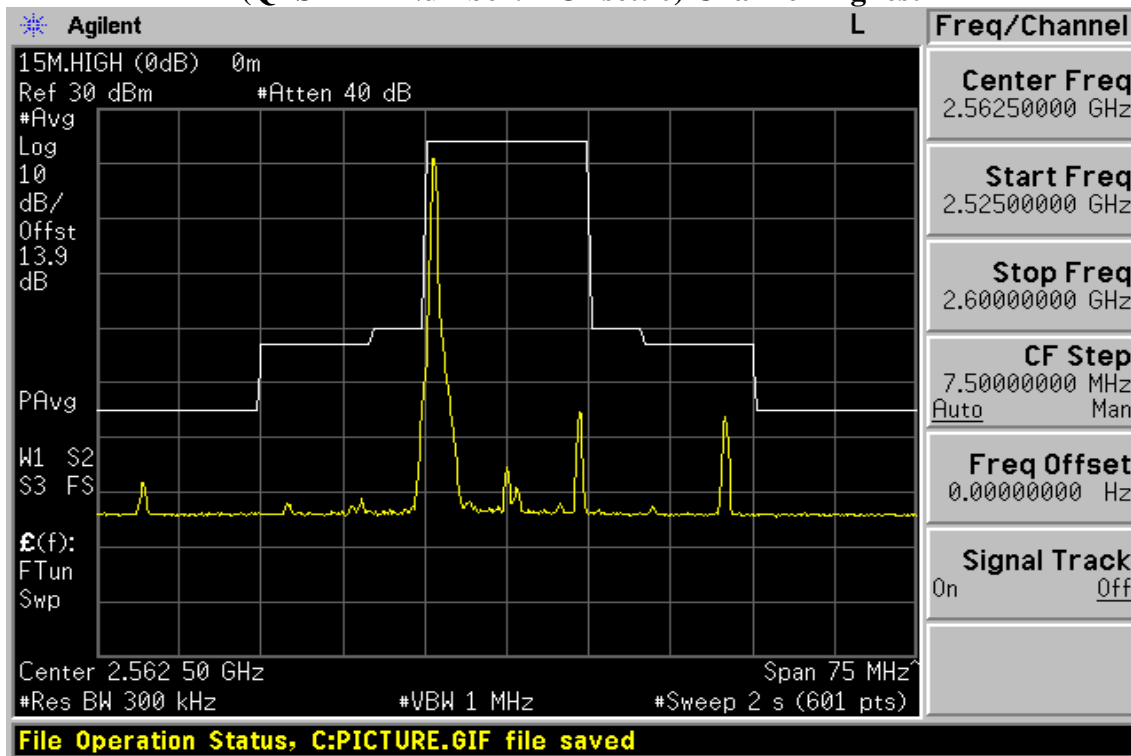
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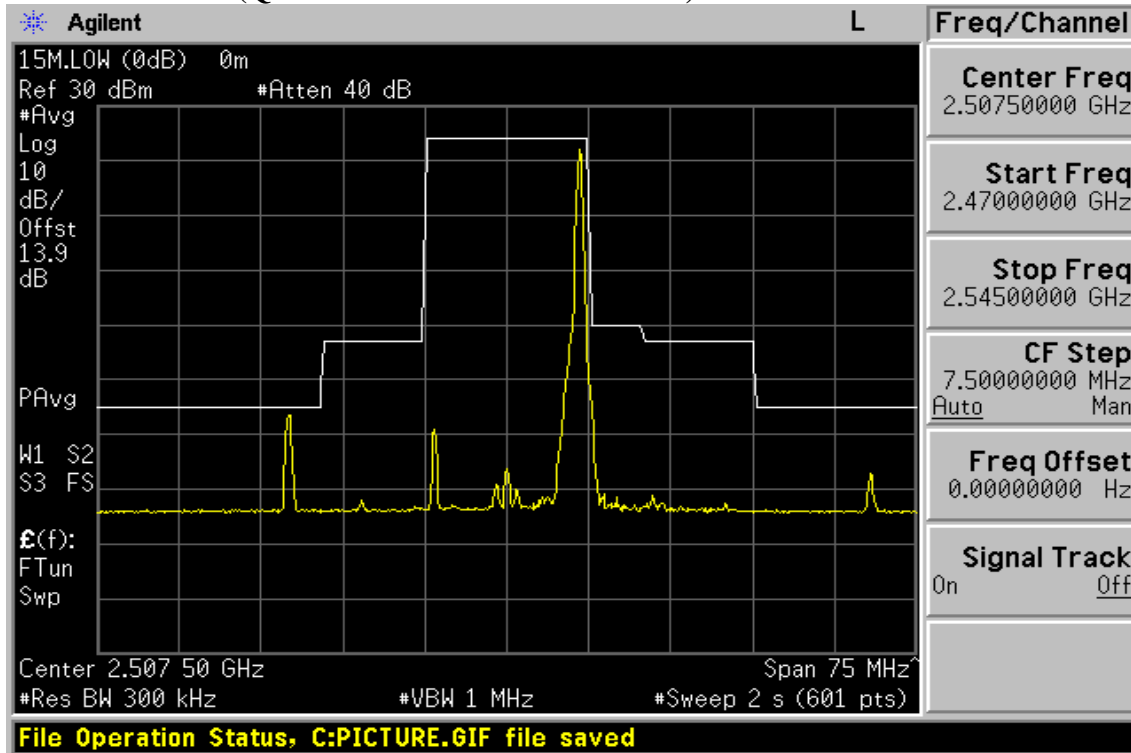
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 74) Channel Lowest**



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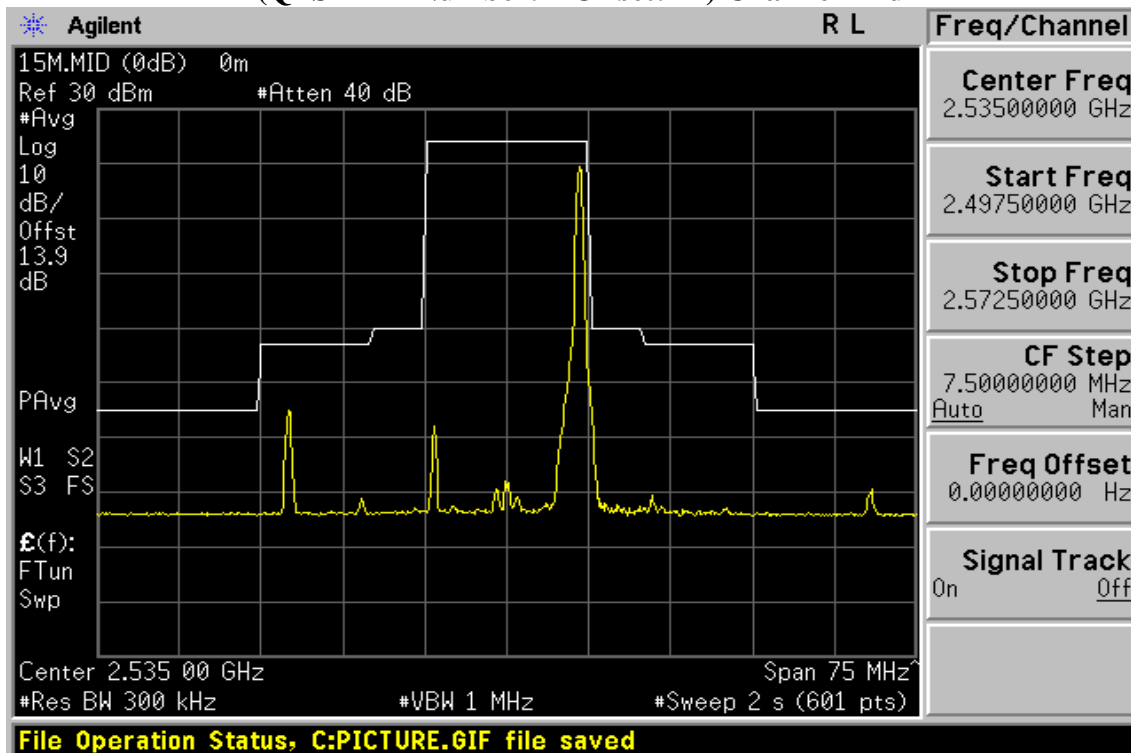
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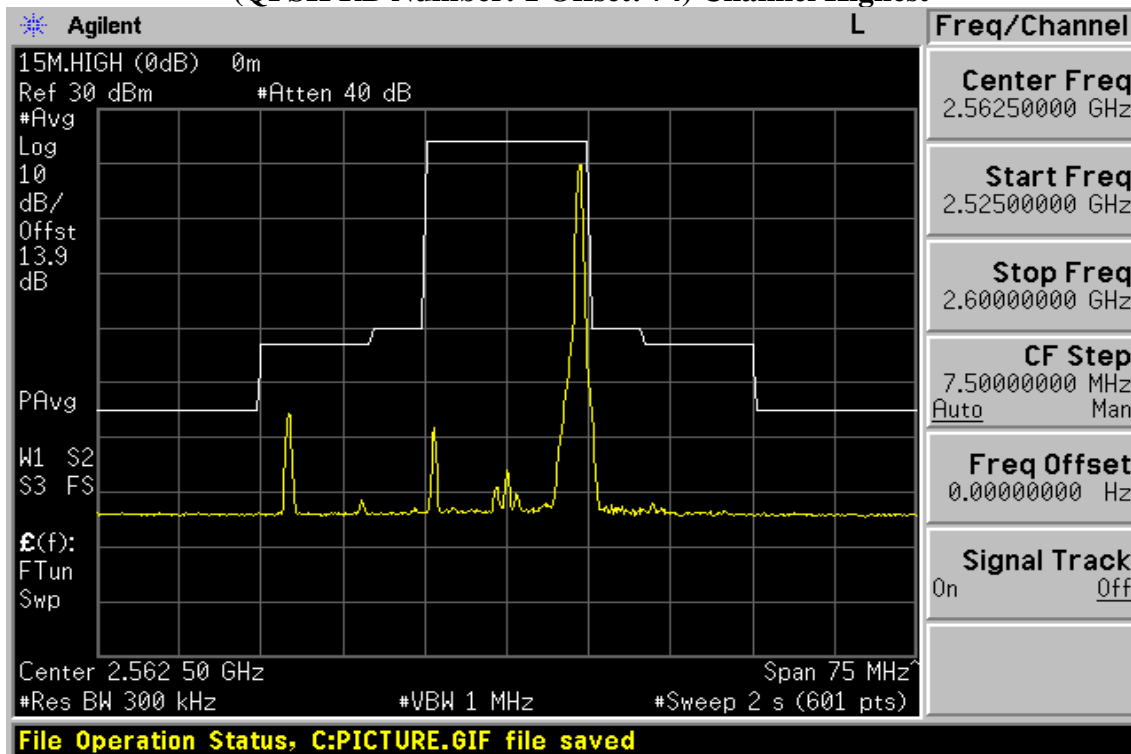
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 74) Channel Mid**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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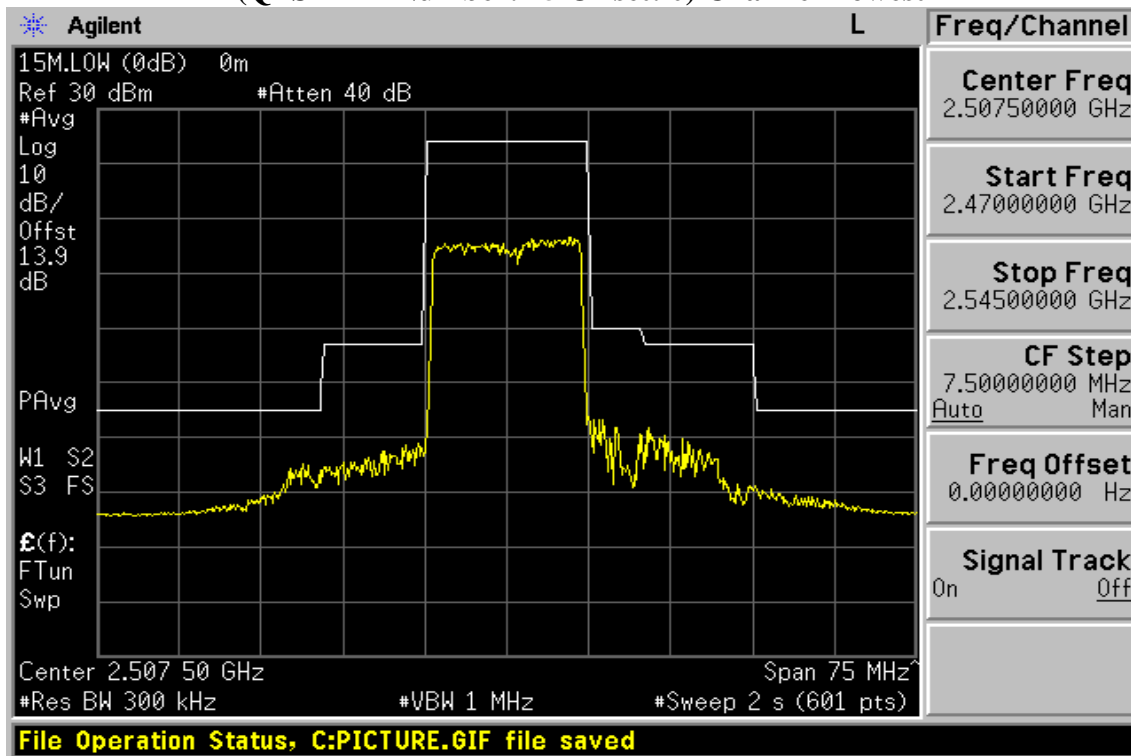
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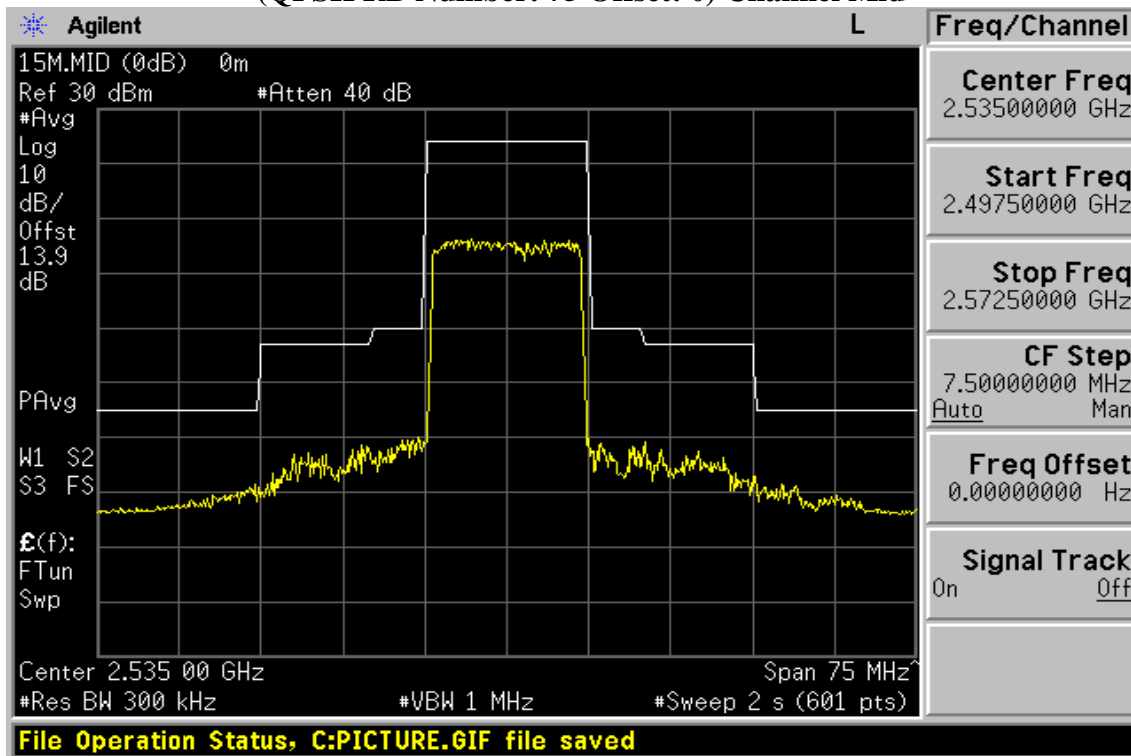
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 75 Offset: 0) Channel Mid**



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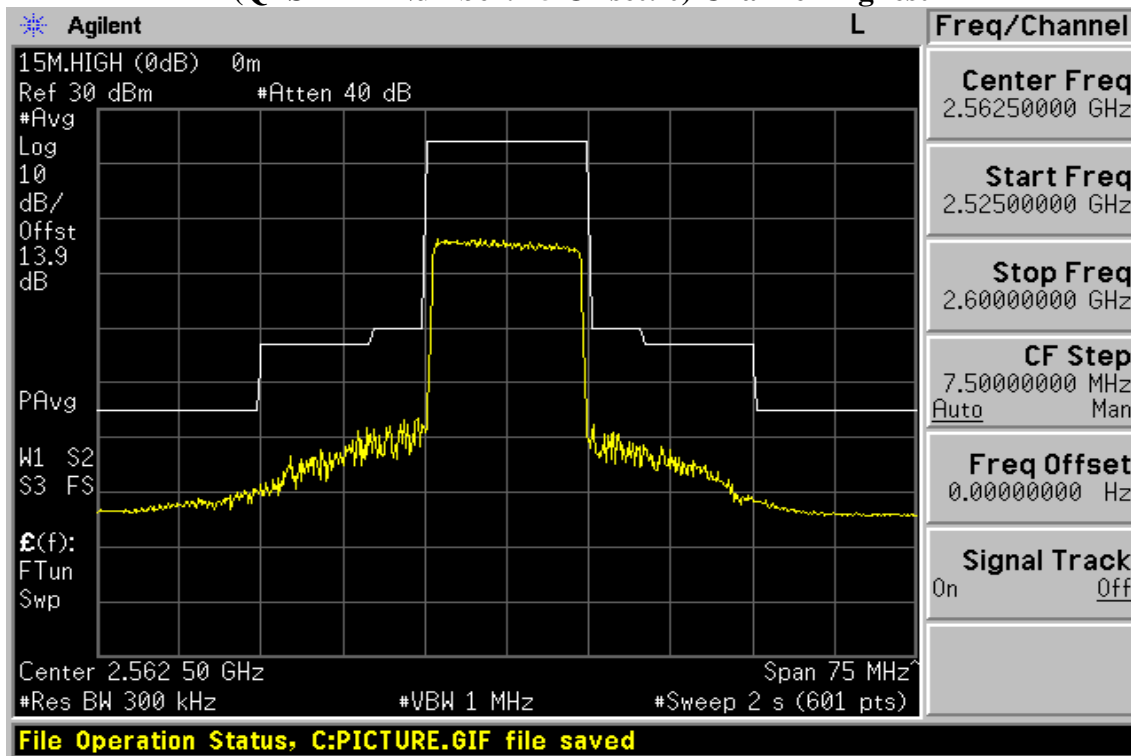
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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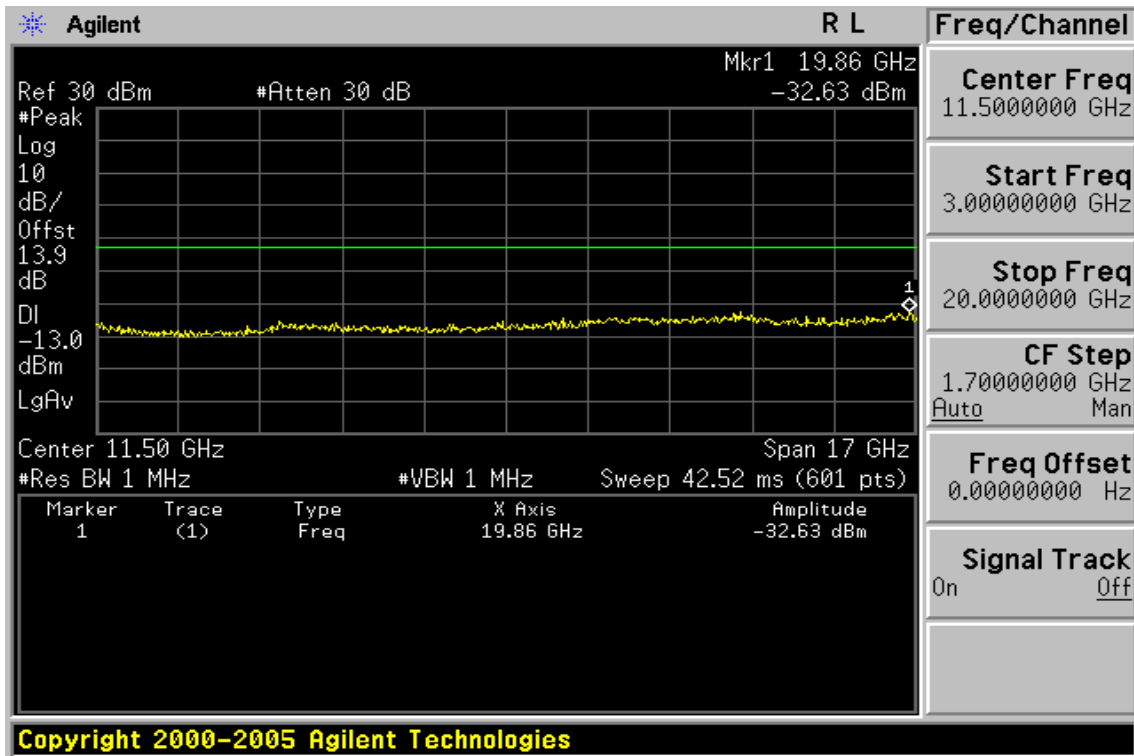
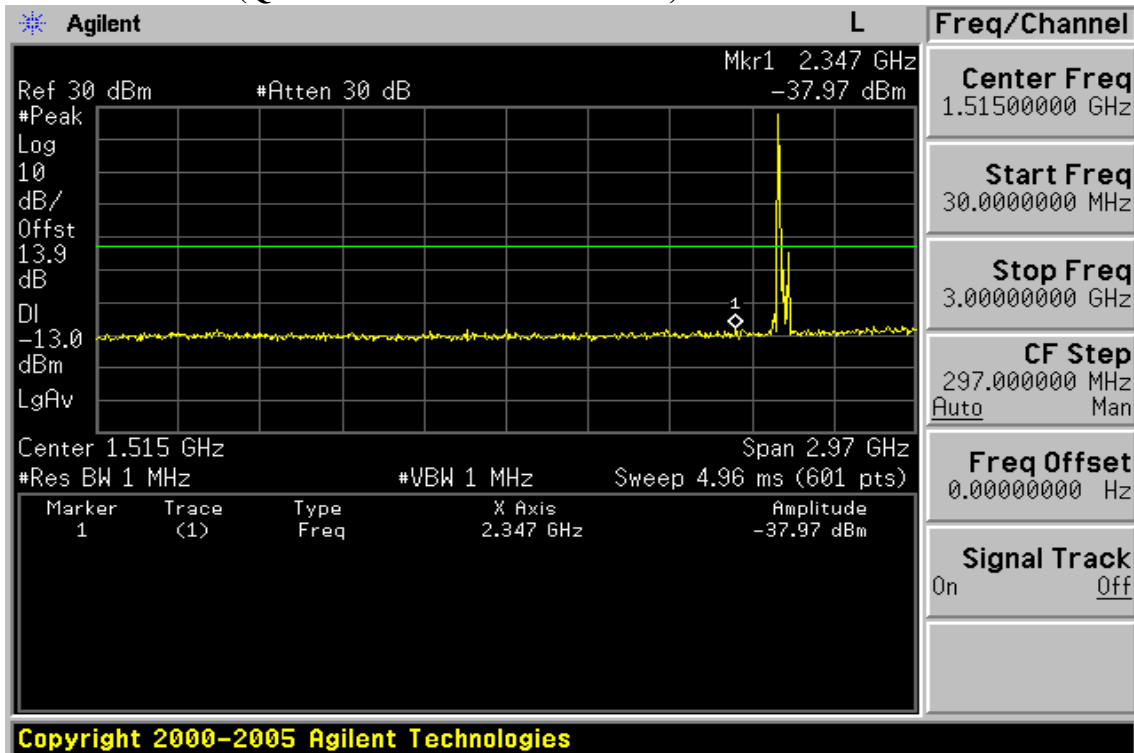
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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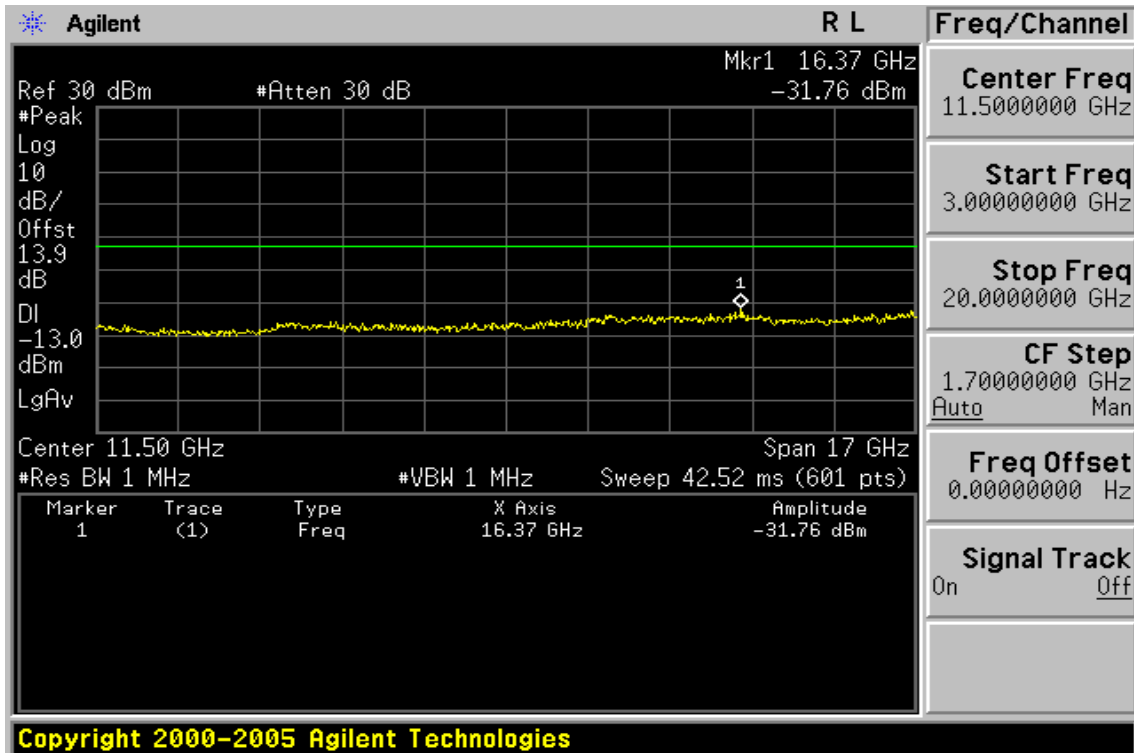
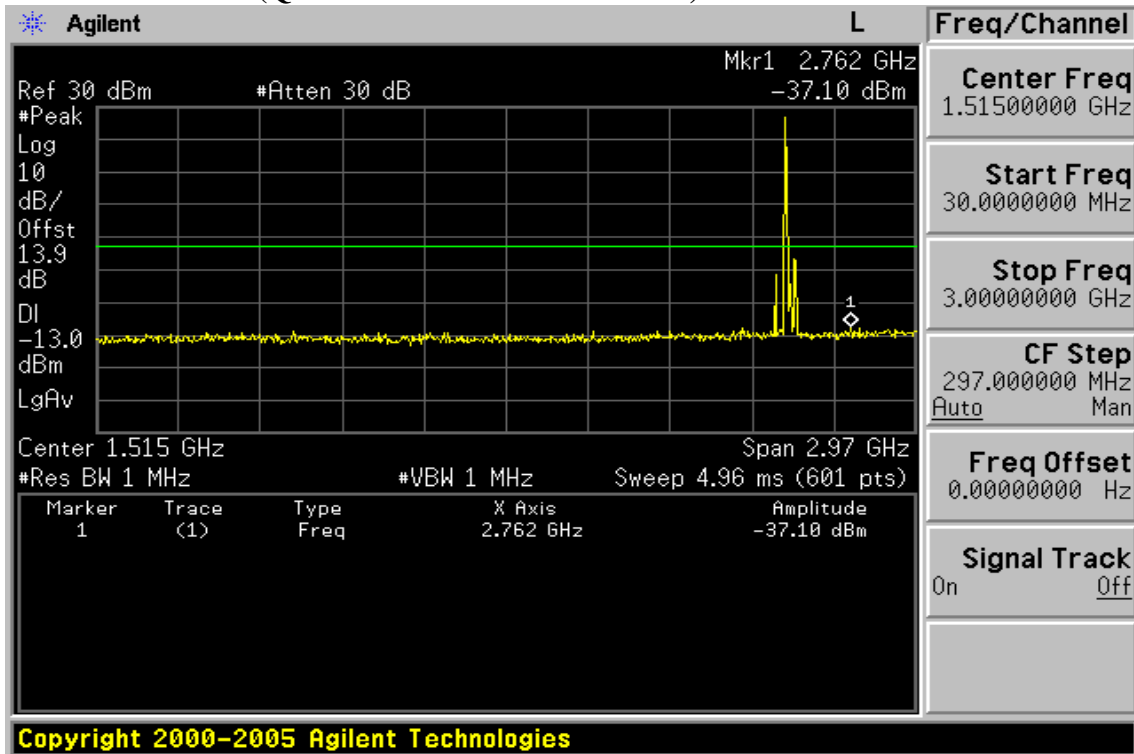
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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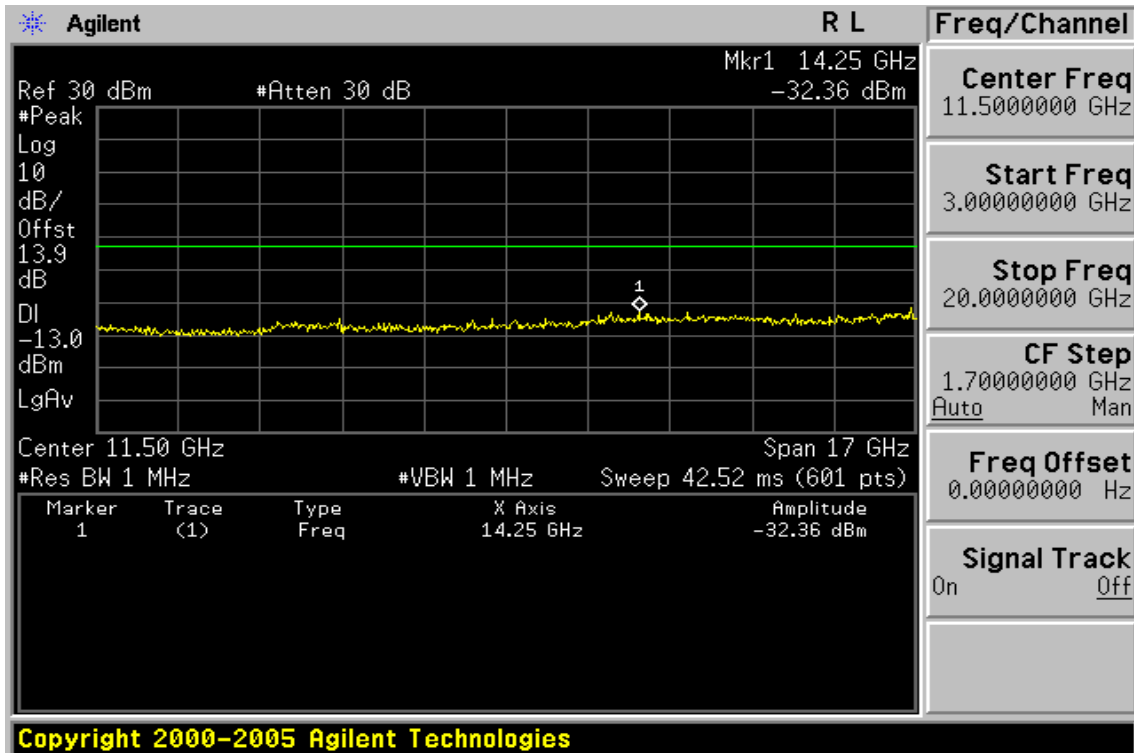
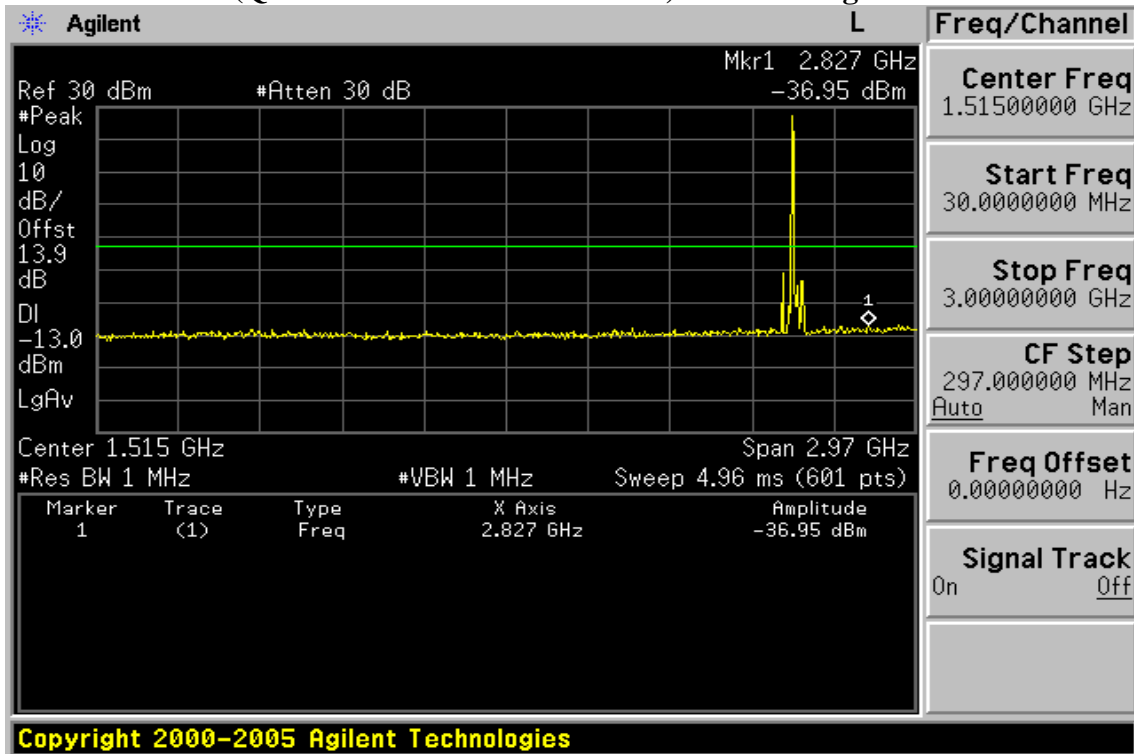
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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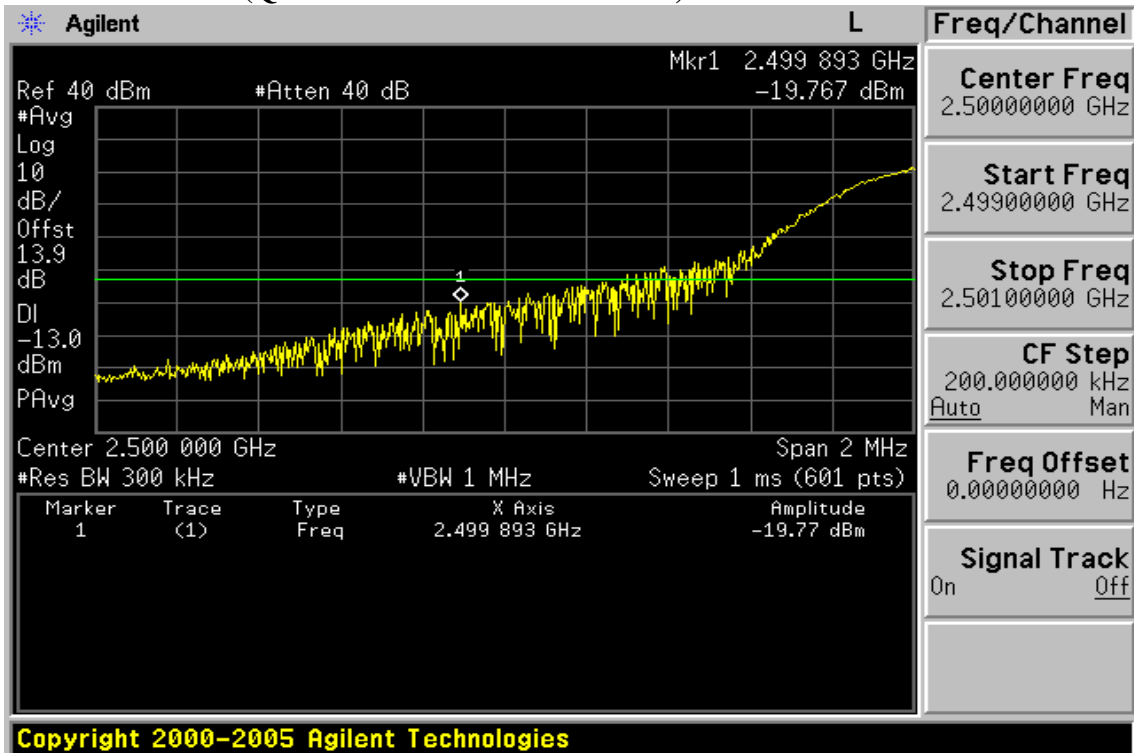
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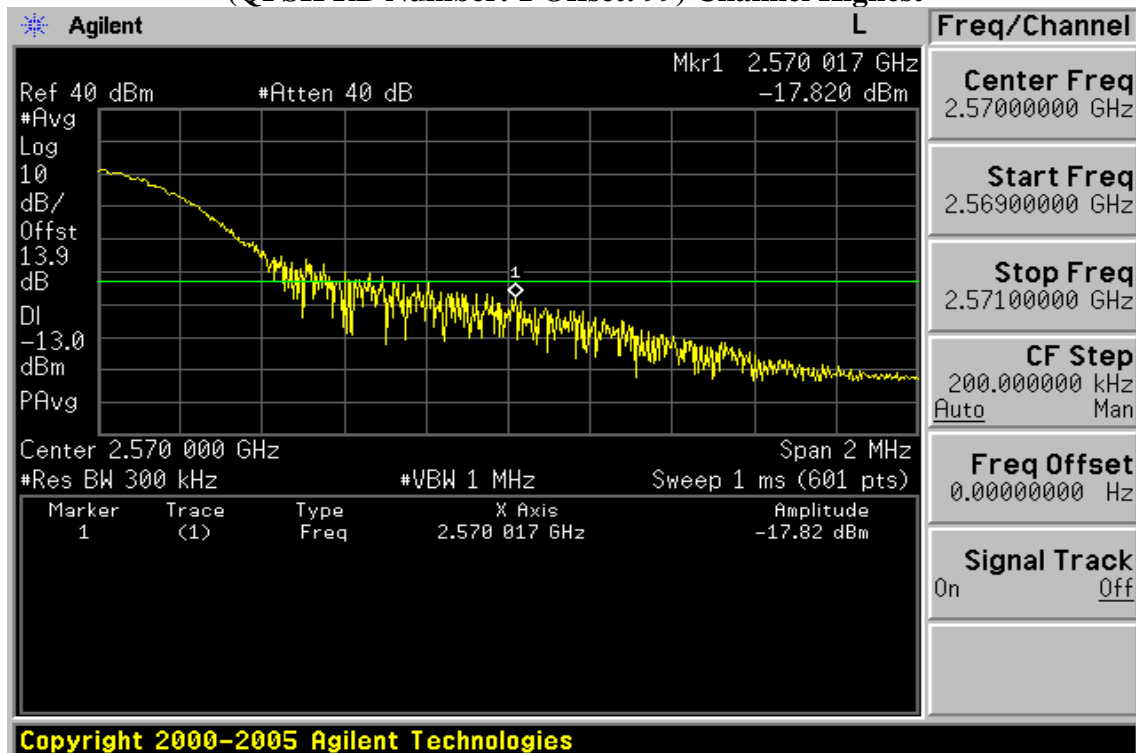
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 99) Channel Highest**



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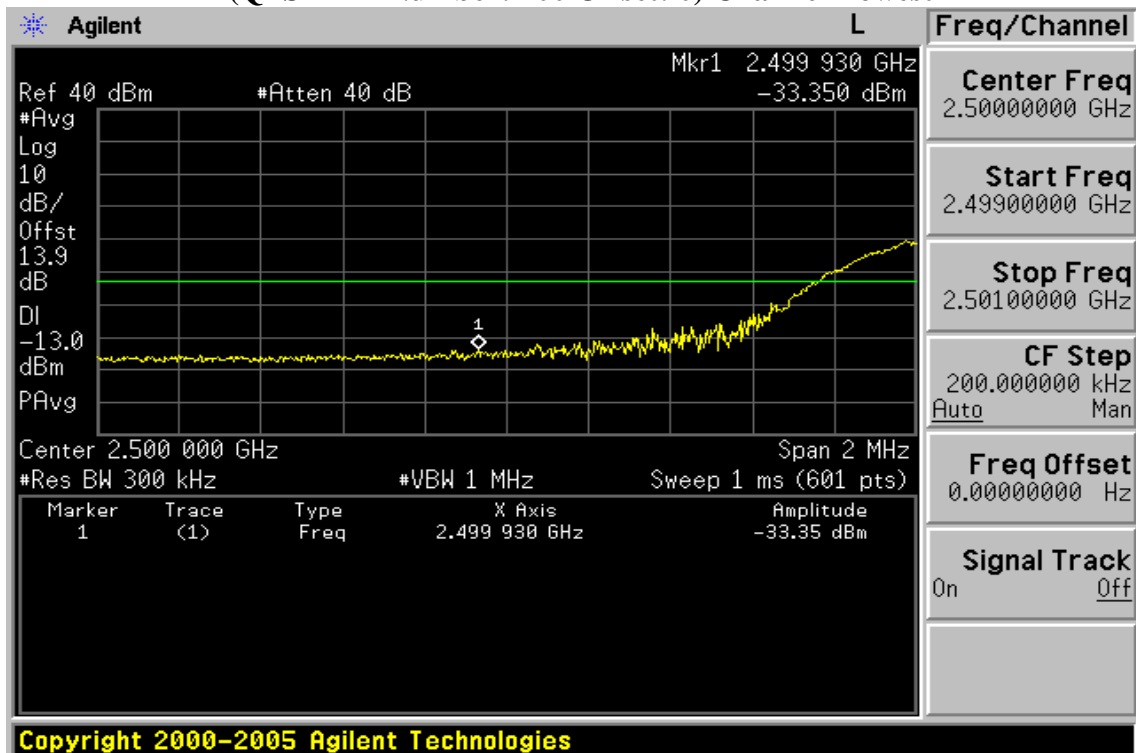
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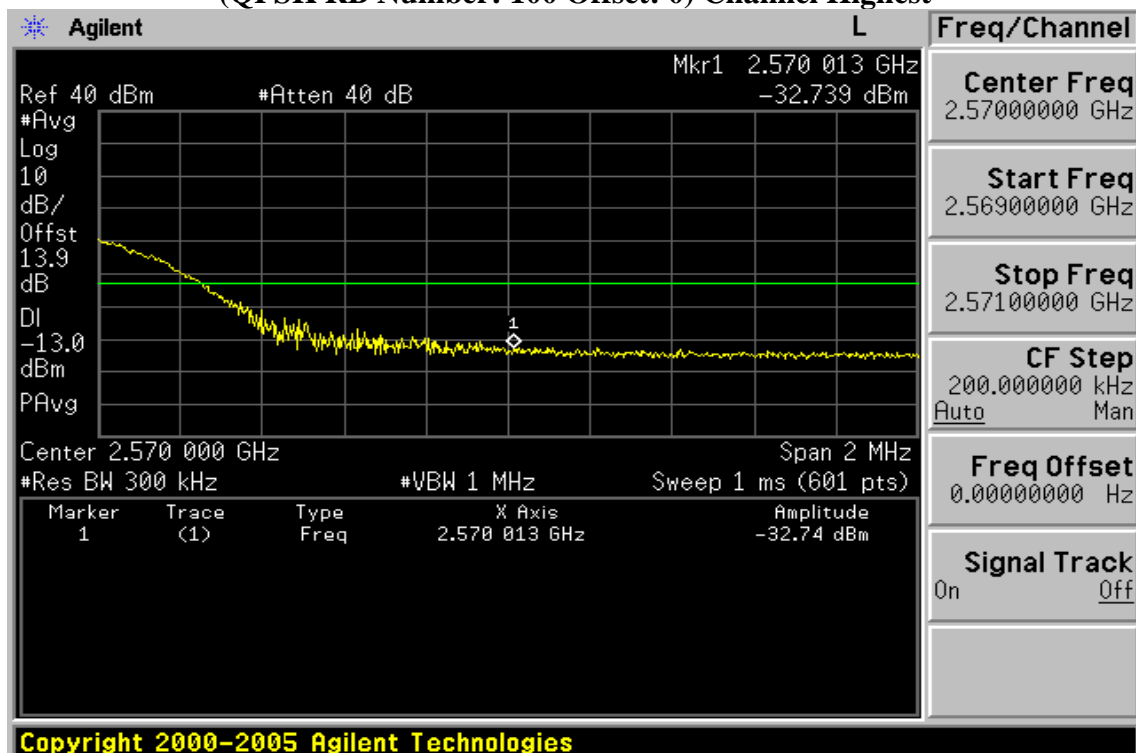
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 100 Offset: 0) Channel Highest**



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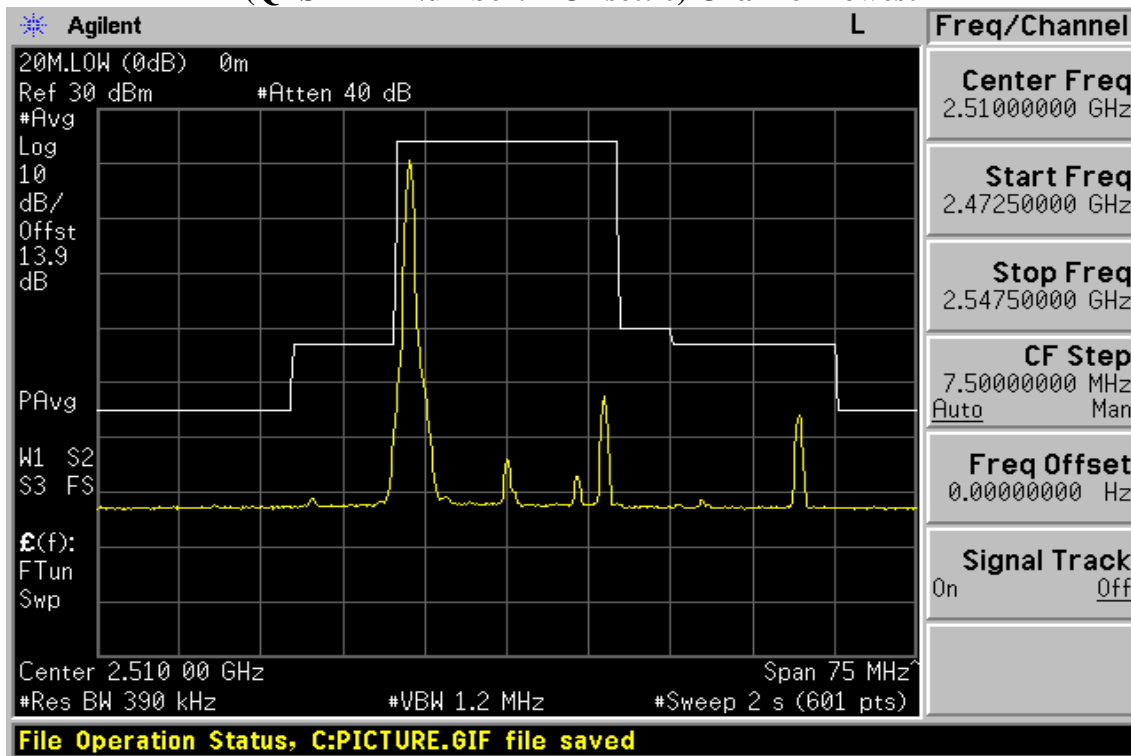
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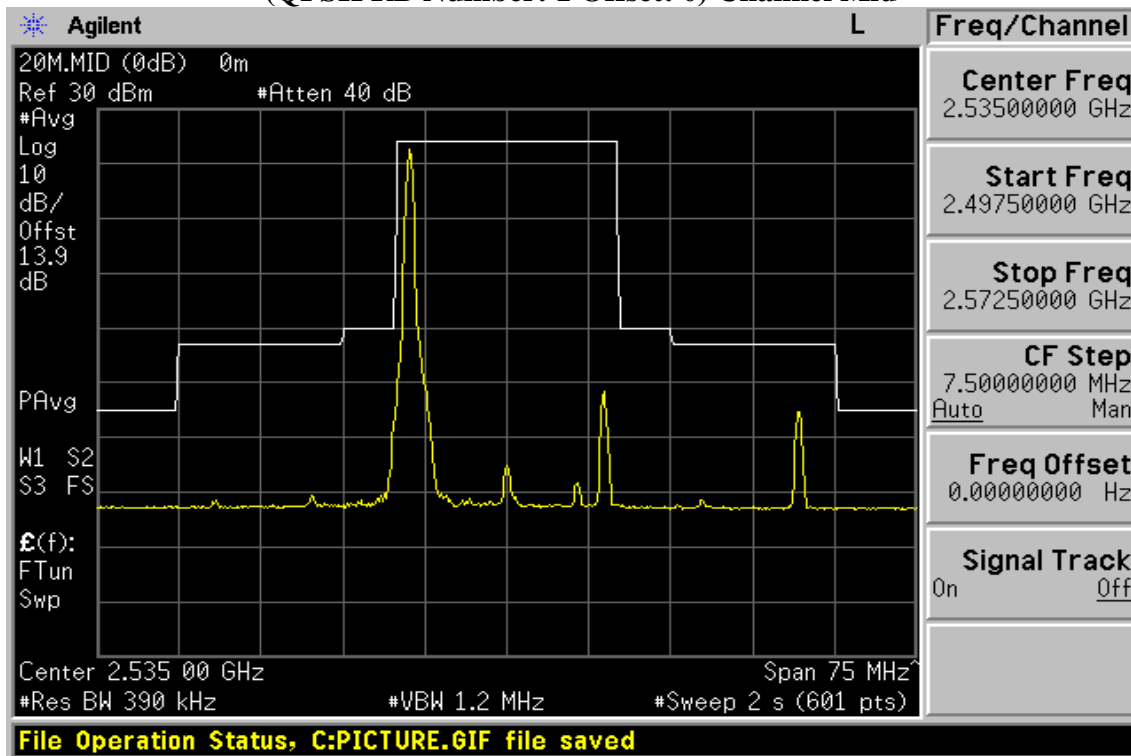
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



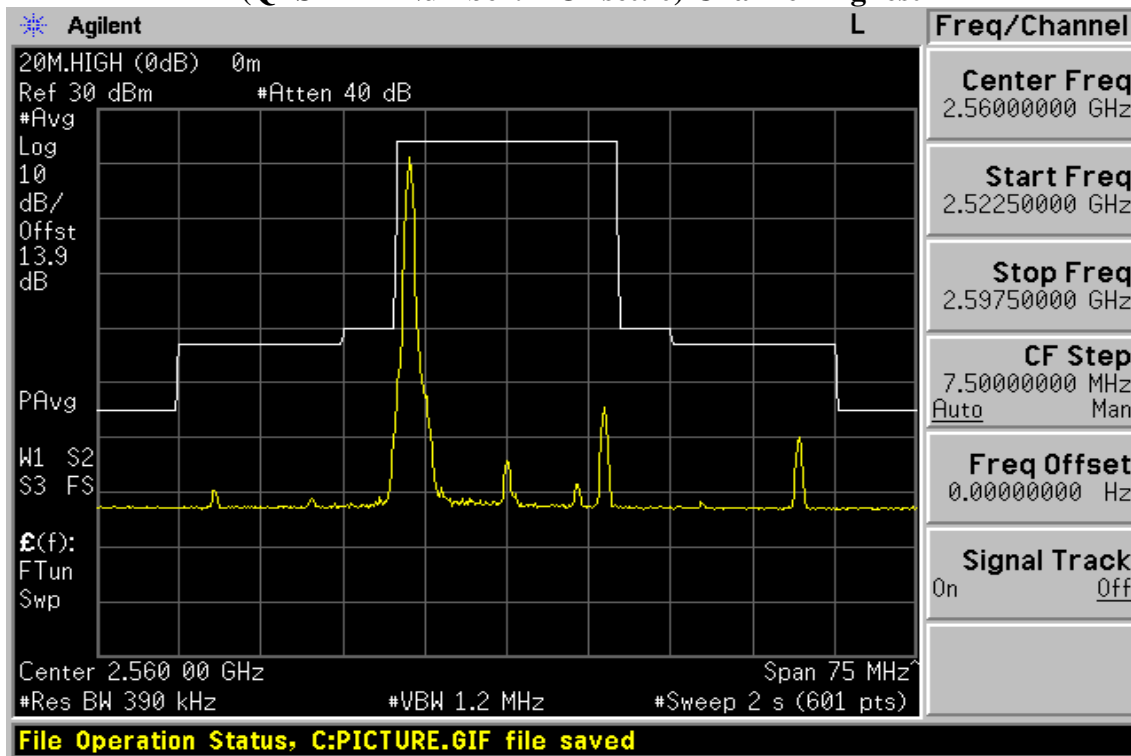
**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



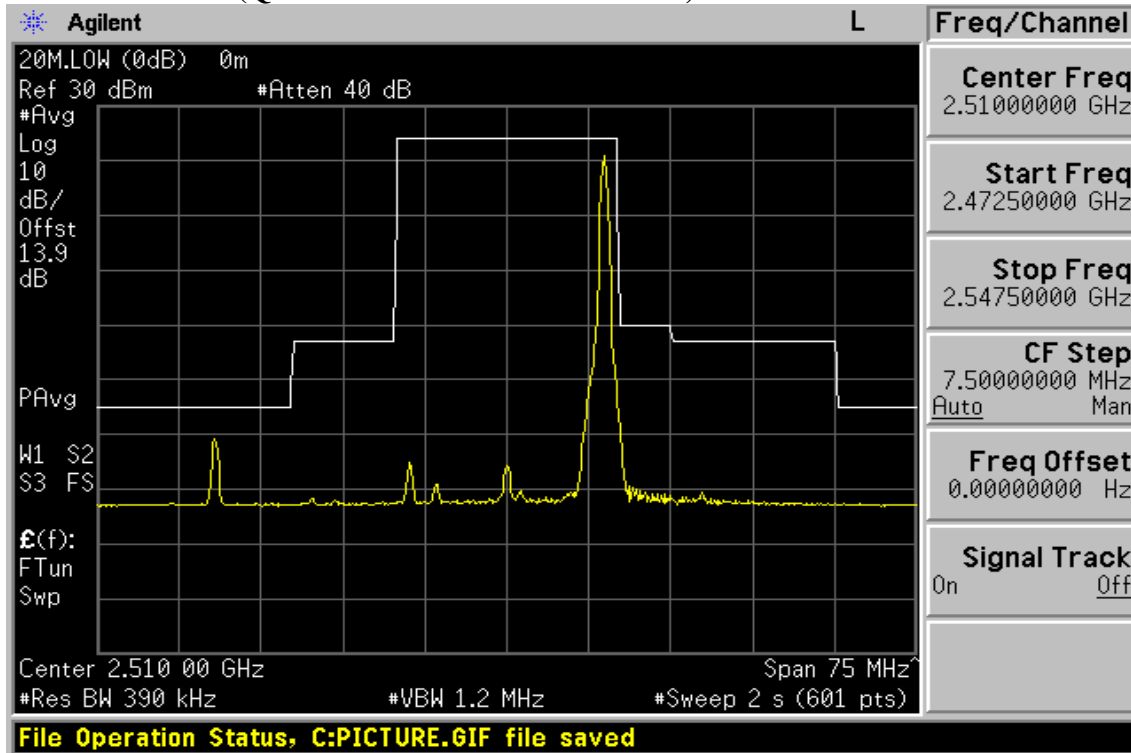
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 99) Channel Lowest**



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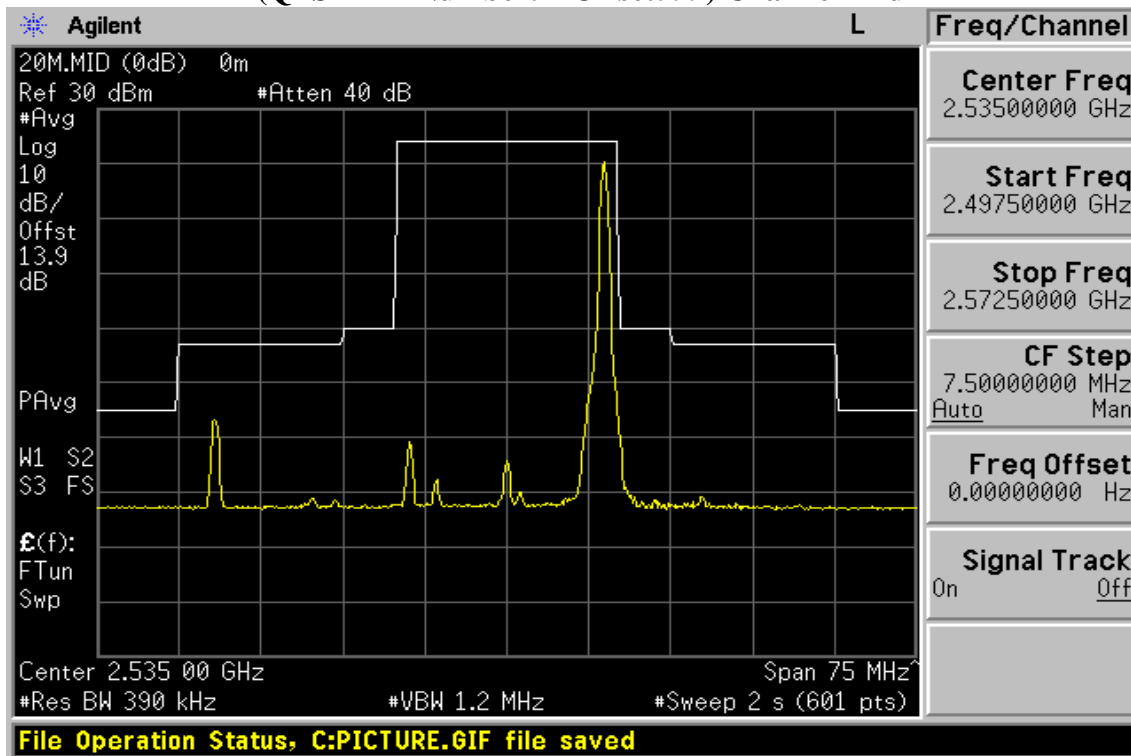
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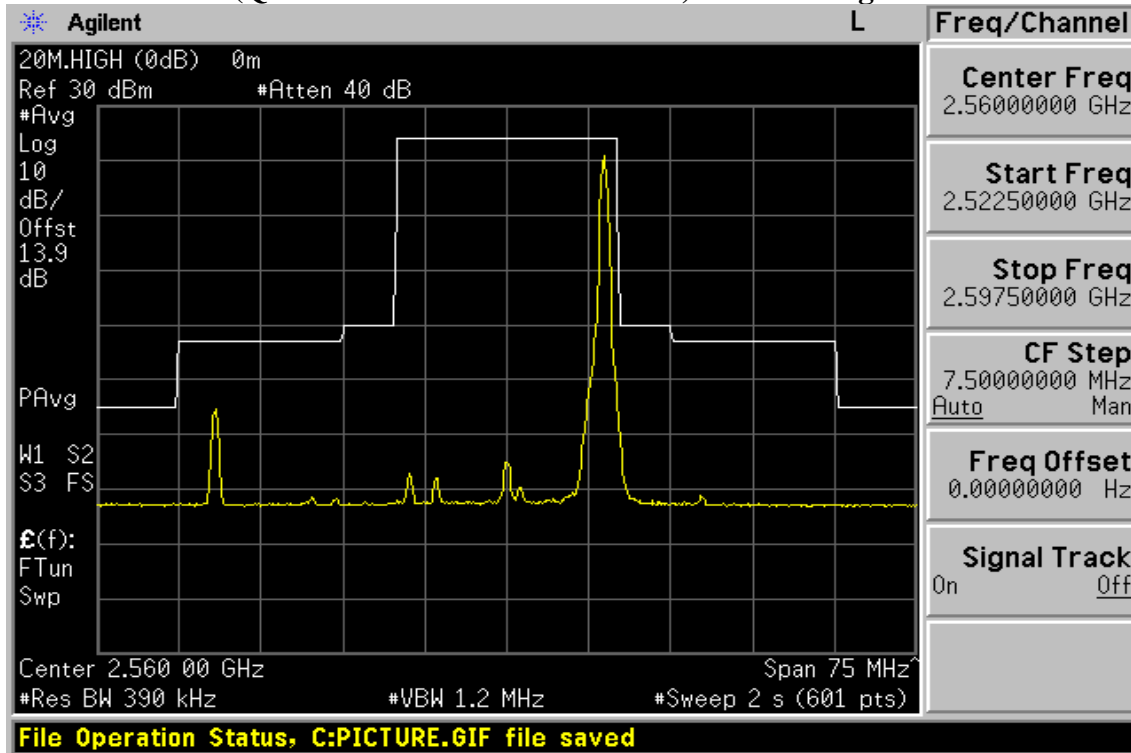
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 99) Channel Mid**



**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 99) Channel Highest**



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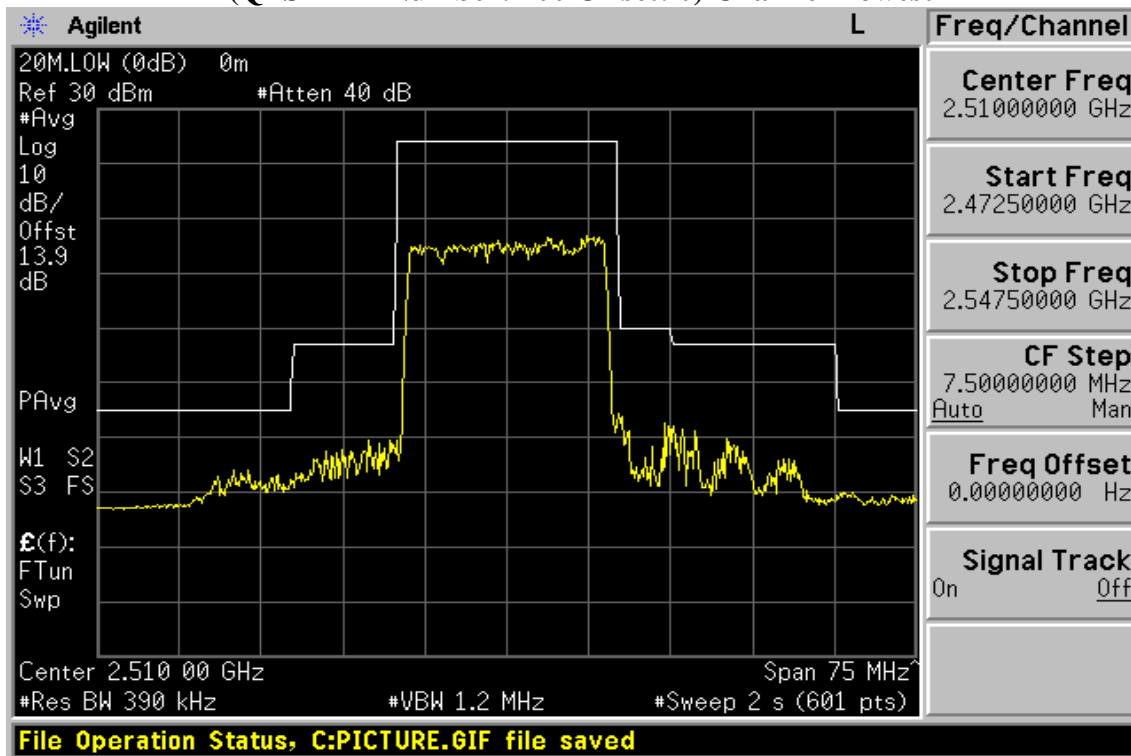
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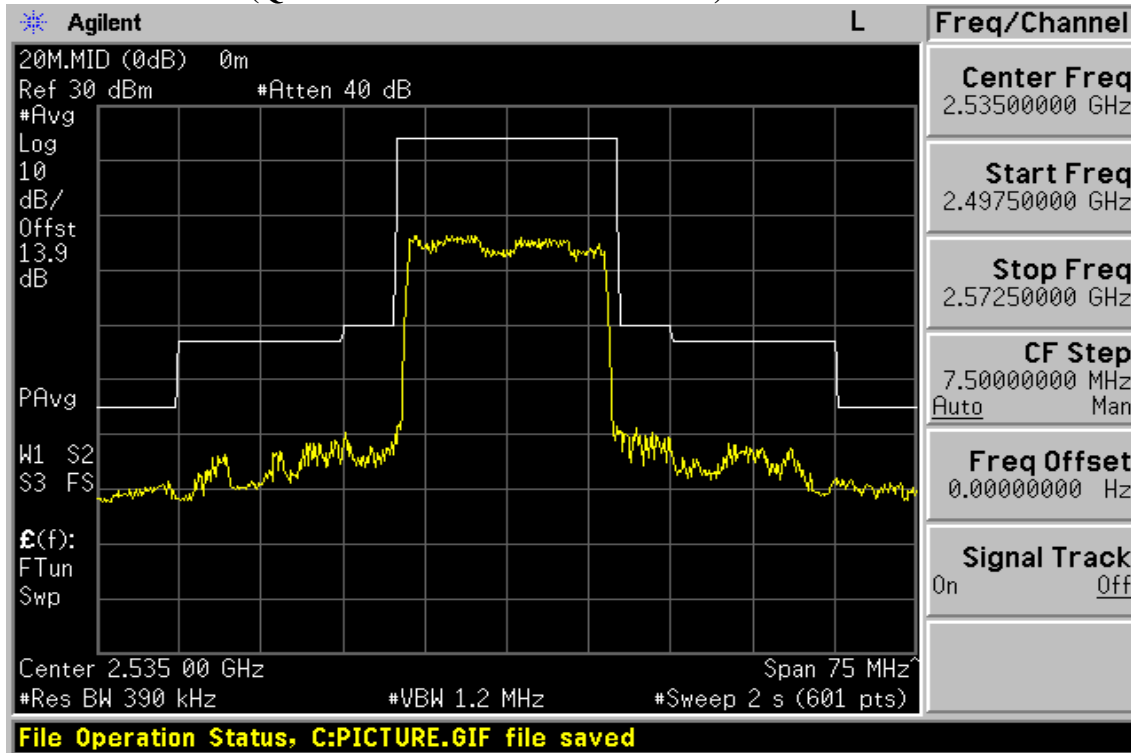
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 100 Offset: 0) Channel Mid**



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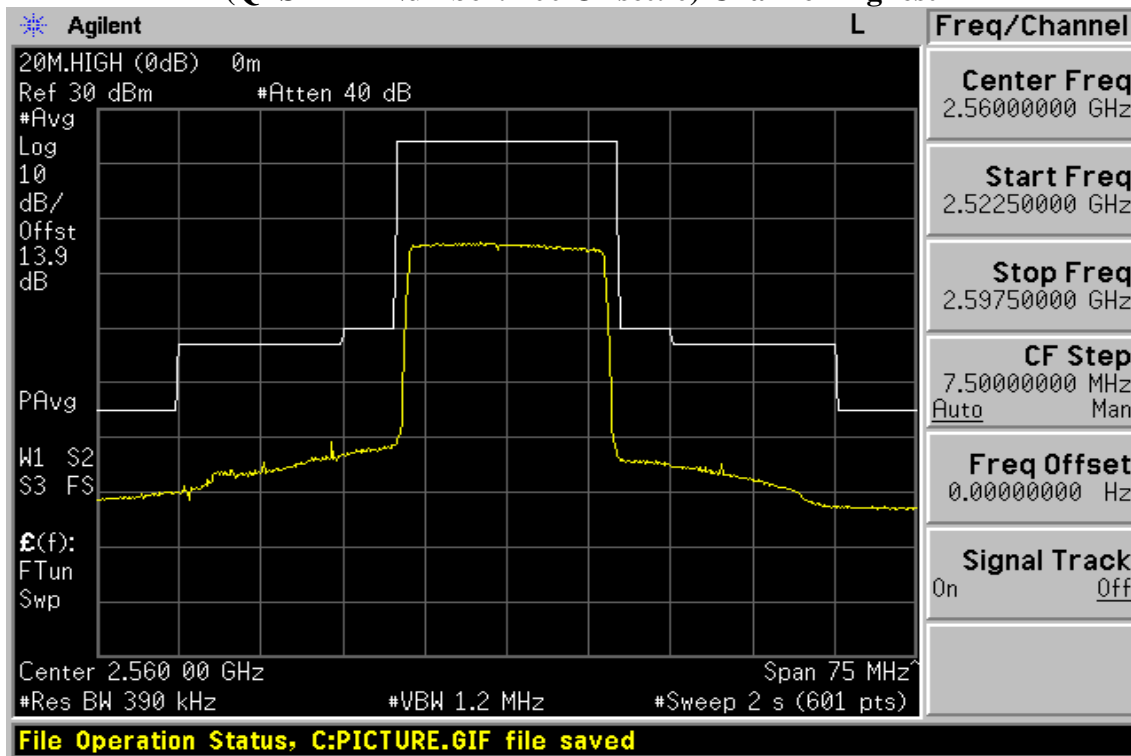
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 100 Offset: 0) Channel Highest**



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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 10.1. Standard Applicable

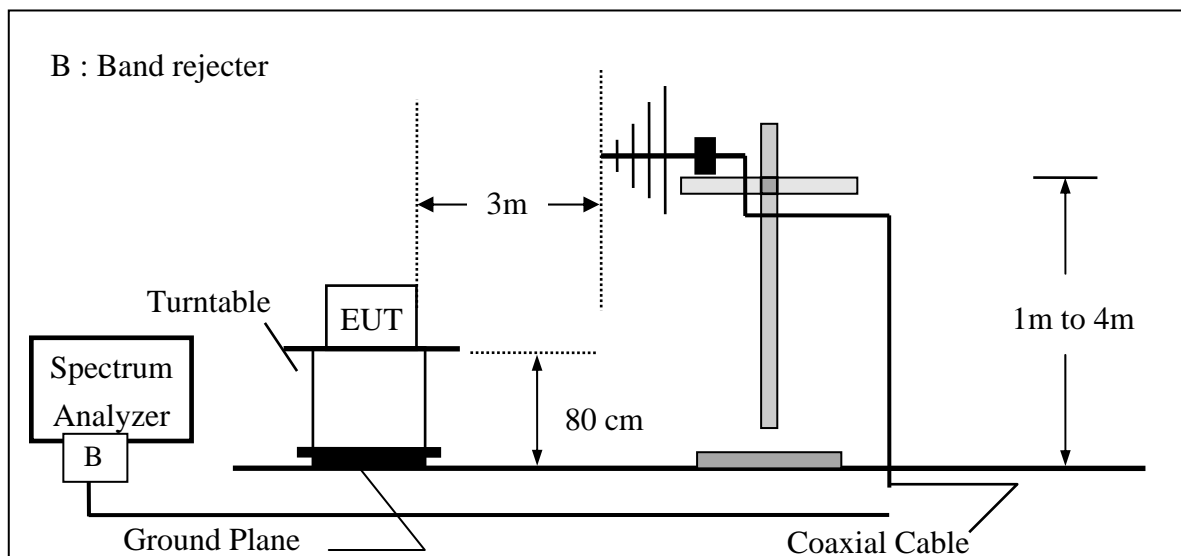
According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license’s frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than  $55 + 10\log$ (mean output power in watt) dBc below the mean power output outside a license’s frequency block (-25dBm).

### 10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz

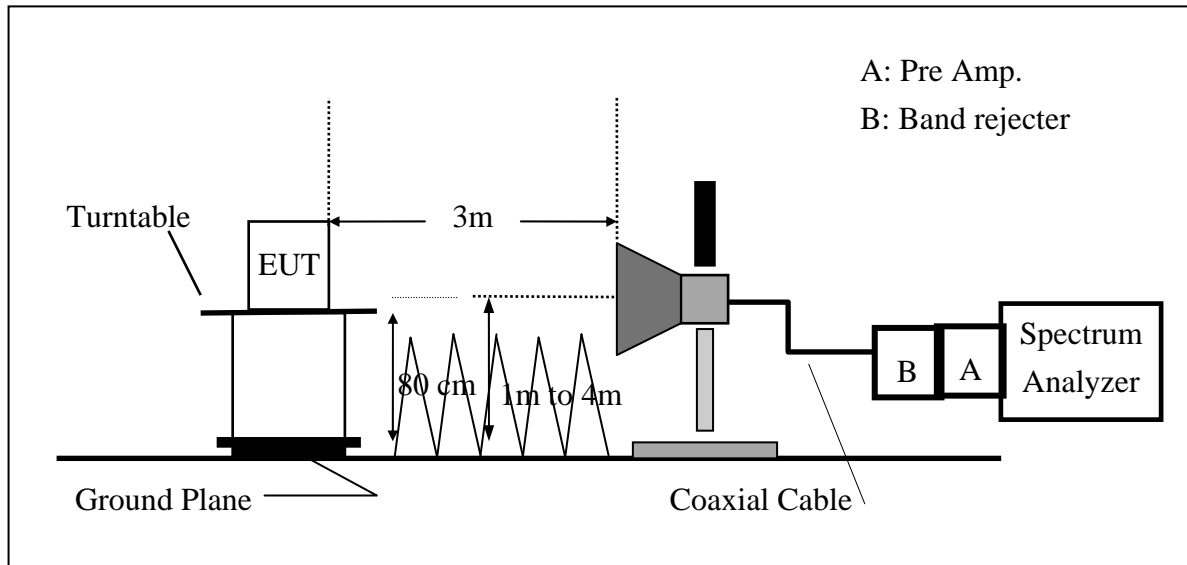


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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$EIRP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

$$EIRP \text{ (dBm)} = \text{SG Level (dBm)} + \text{Antenna Gain (dBi)} + \text{Cable Loss (dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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**10.4. Measurement Equipment Used:**

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

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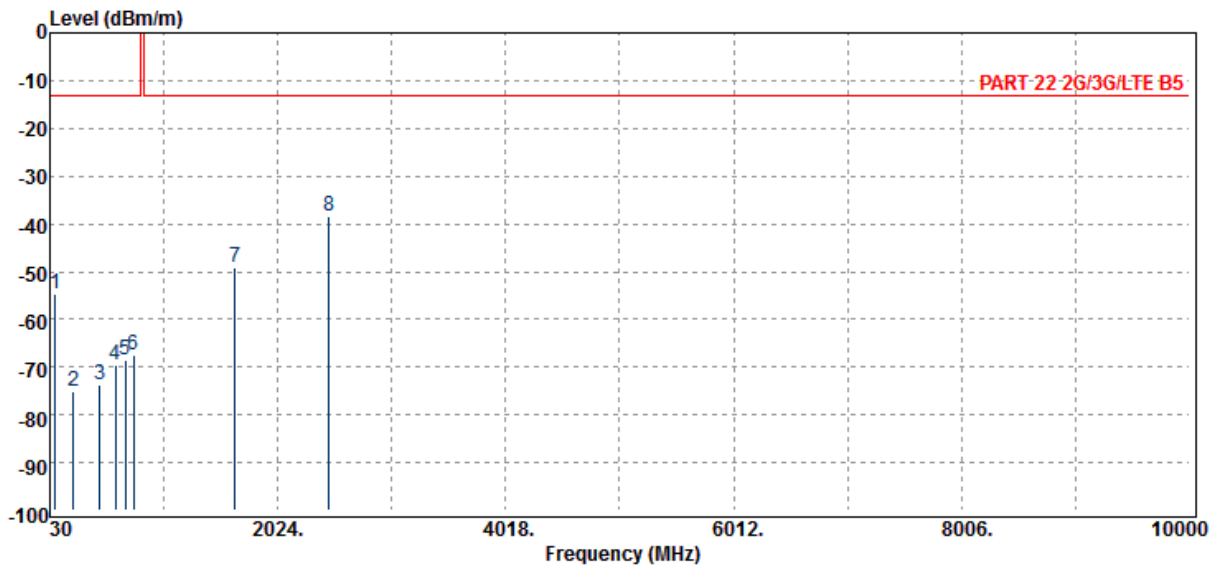
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**10.5. Measurement Result:**

**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

ARFCN	:CH 128	Test Date	:2015-06-11
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



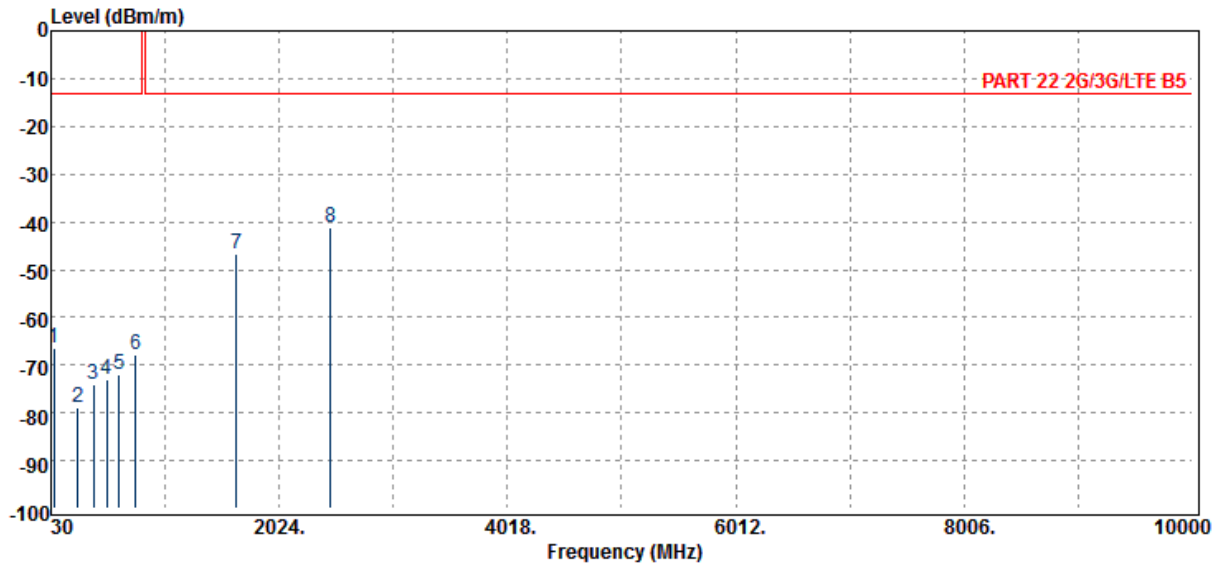
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	S	-54.67	-49.29	-4.35	-1.03	-13.00	-41.67
238.55	S	-75.25	-76.93	3.29	-1.60	-13.00	-62.25
464.56	S	-73.80	-75.16	3.47	-2.11	-13.00	-60.80
606.18	S	-69.57	-70.30	3.47	-2.74	-13.00	-56.57
689.60	S	-68.46	-69.28	3.43	-2.62	-13.00	-55.46
761.38	S	-67.39	-67.99	3.32	-2.72	-13.00	-54.39
1648.40	H	-49.08	-47.92	3.05	-4.21	-13.00	-36.08
2472.60	H	-38.39	-36.66	3.59	-5.32	-13.00	-25.39

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ARFCN	:CH 128	Test Date	:2015-06-11
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



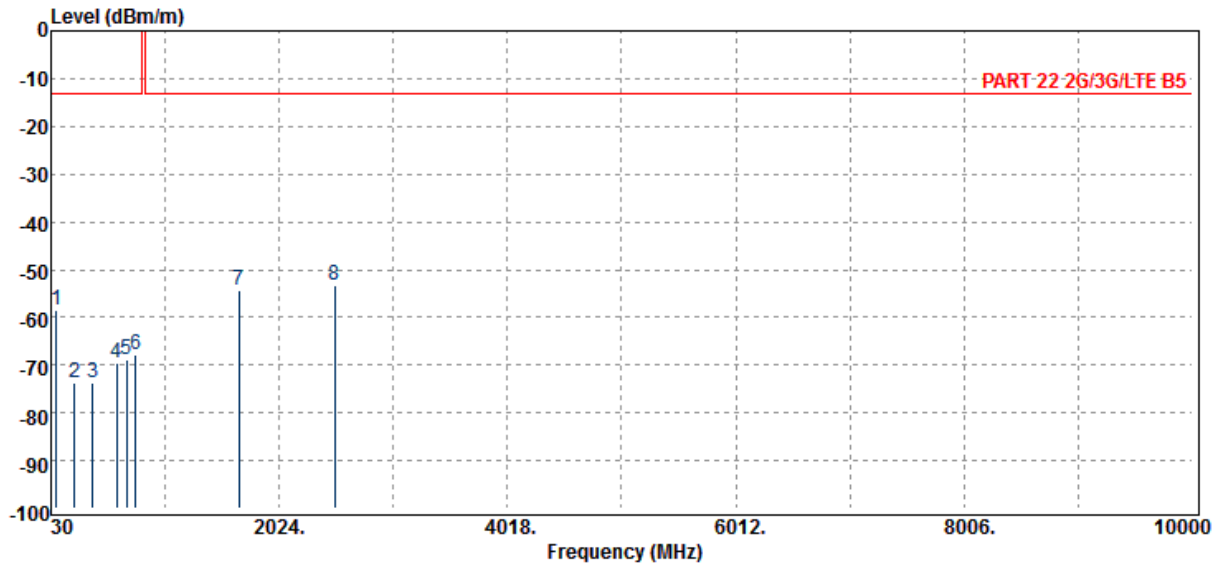
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-66.38	-55.21	-10.24	-0.93	-13.00	-53.38
267.65	S	-79.04	-80.98	3.62	-1.69	-13.00	-66.04
404.42	S	-74.15	-75.80	3.60	-1.94	-13.00	-61.15
514.03	S	-73.10	-74.43	3.71	-2.38	-13.00	-60.10
628.49	S	-72.04	-72.90	3.56	-2.69	-13.00	-59.04
767.20	S	-67.95	-68.55	3.34	-2.74	-13.00	-54.95
1648.40	H	-46.61	-45.46	3.05	-4.21	-13.00	-33.61
2472.60	H	-41.19	-39.46	3.59	-5.32	-13.00	-28.19

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ARFCN	:CH 190	Test Date	:2015-06-11
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	S	-58.45	-53.07	-4.35	-1.03	-13.00	-45.45
237.58	S	-73.78	-75.47	3.29	-1.60	-13.00	-60.78
391.81	S	-73.83	-75.52	3.64	-1.95	-13.00	-60.83
606.18	S	-69.40	-70.14	3.47	-2.74	-13.00	-56.40
691.54	S	-68.74	-69.55	3.42	-2.62	-13.00	-55.74
768.17	S	-67.86	-68.46	3.34	-2.74	-13.00	-54.86
1673.20	H	-54.23	-52.98	3.01	-4.26	-13.00	-41.23
2509.80	H	-53.24	-51.56	3.67	-5.35	-13.00	-40.24

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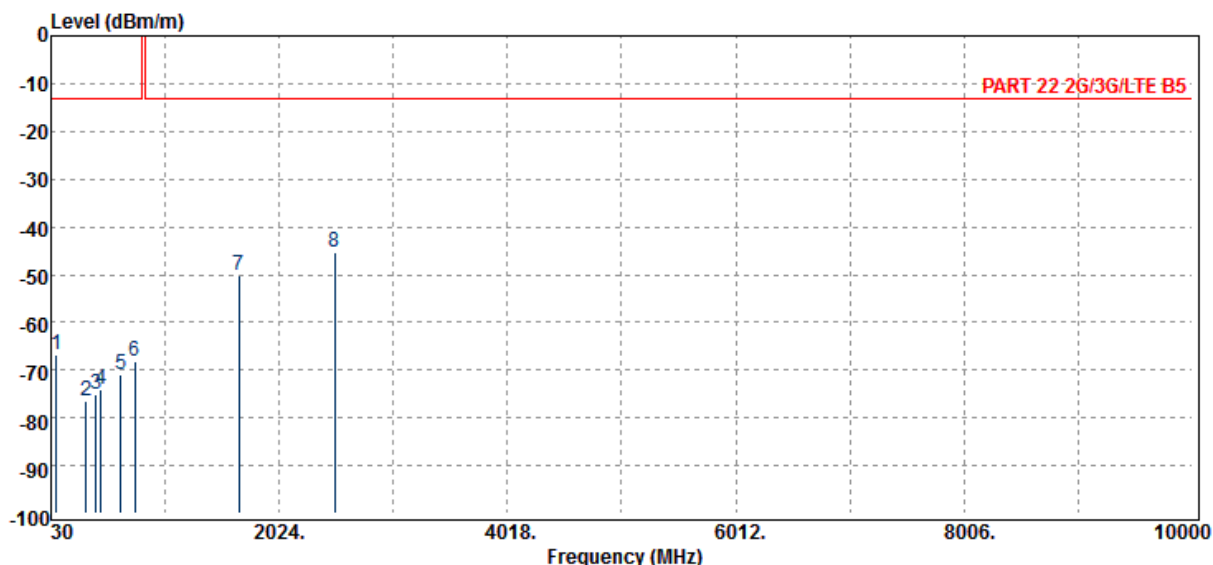
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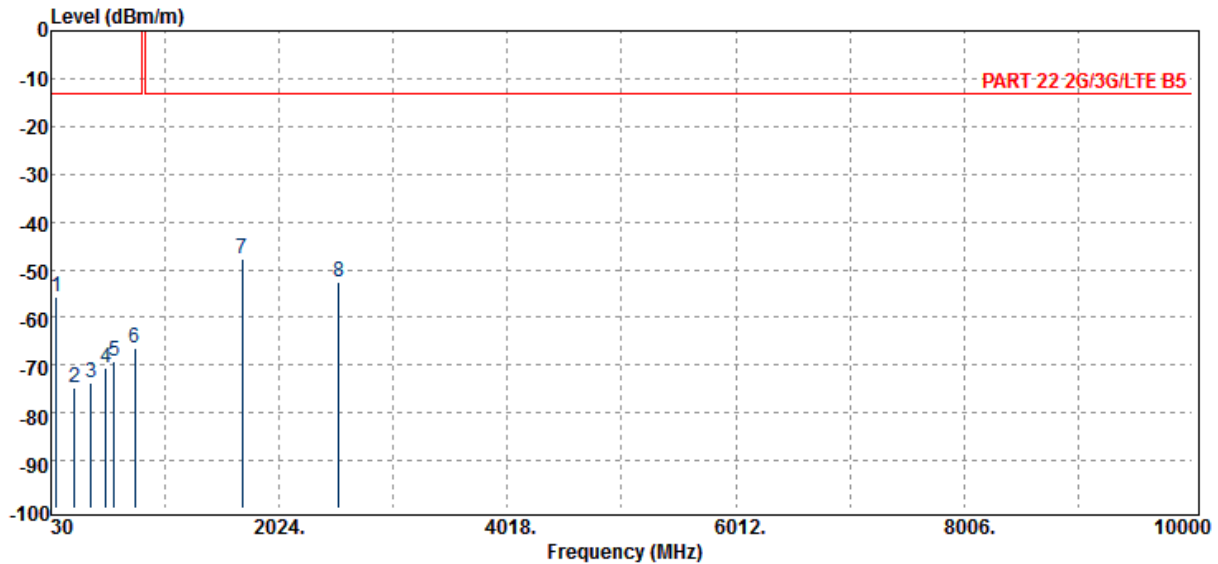
ARFCN	:CH 190	Test Date	:2015-06-11
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	S	-66.84	-61.45	-4.35	-1.03	-13.00	-53.84
338.46	S	-76.44	-78.25	3.73	-1.93	-13.00	-63.44
419.94	S	-74.93	-76.47	3.51	-1.97	-13.00	-61.93
466.50	S	-74.19	-75.56	3.49	-2.11	-13.00	-61.19
641.10	S	-71.01	-71.94	3.60	-2.67	-13.00	-58.01
761.38	S	-68.13	-68.73	3.32	-2.72	-13.00	-55.13
1673.20	H	-50.24	-49.00	3.01	-4.26	-13.00	-37.24
2509.80	H	-45.34	-43.67	3.67	-5.35	-13.00	-32.34

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ARFCN	:CH 251	Test Date	:2015-06-11
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



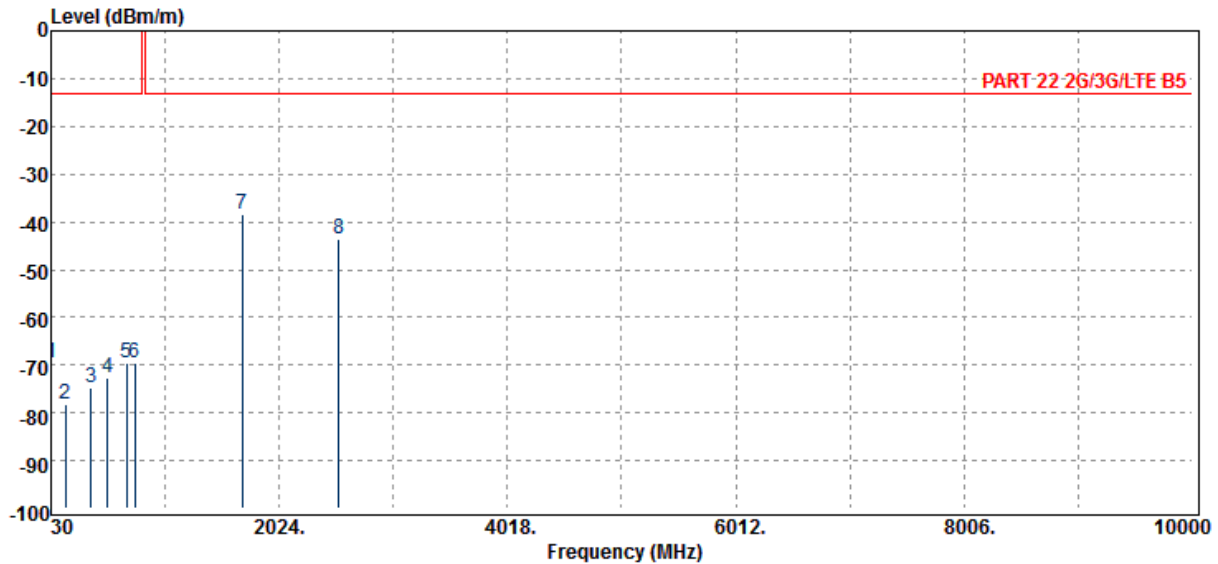
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
77.53	S	-55.87	-51.35	-3.48	-1.04	-13.00	-42.87
233.70	S	-74.77	-76.49	3.30	-1.59	-13.00	-61.77
377.26	S	-73.54	-75.26	3.68	-1.96	-13.00	-60.54
512.09	S	-70.76	-72.10	3.72	-2.37	-13.00	-57.76
584.84	S	-69.21	-69.95	3.49	-2.74	-13.00	-56.21
763.32	S	-66.51	-67.11	3.33	-2.73	-13.00	-53.51
1697.60	H	-47.69	-46.38	2.96	-4.28	-13.00	-34.69
2546.40	H	-52.50	-50.85	3.75	-5.41	-13.00	-39.50

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Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-69.39	-54.93	-13.67	-0.78	-13.00	-56.39
153.19	S	-78.04	-74.76	-1.88	-1.40	-13.00	-65.04
379.20	S	-74.64	-76.36	3.68	-1.95	-13.00	-61.64
525.67	S	-72.74	-73.97	3.67	-2.44	-13.00	-59.74
692.51	S	-69.59	-70.39	3.42	-2.62	-13.00	-56.59
765.26	S	-69.53	-70.12	3.33	-2.73	-13.00	-56.53
1697.60	H	-38.35	-37.03	2.96	-4.28	-13.00	-25.35
2546.40	H	-43.67	-42.02	3.75	-5.41	-13.00	-30.67

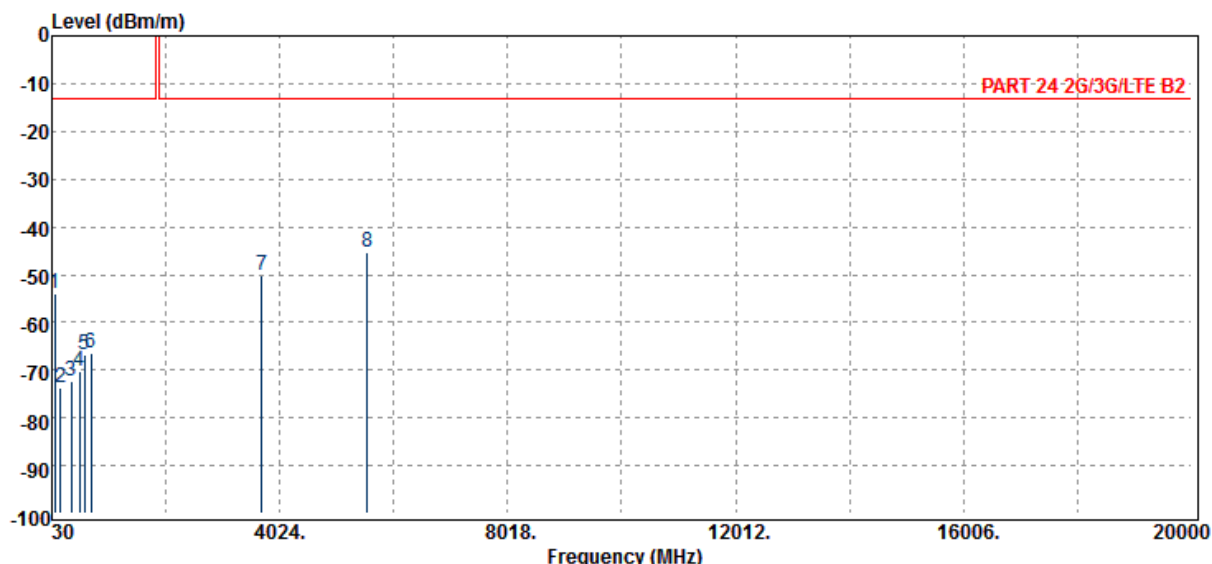
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**Radiated Spurious Emission Measurement Result: GSM 1900 Mode**

ARFCN	:CH 512	Test Date	:2015-06-11
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



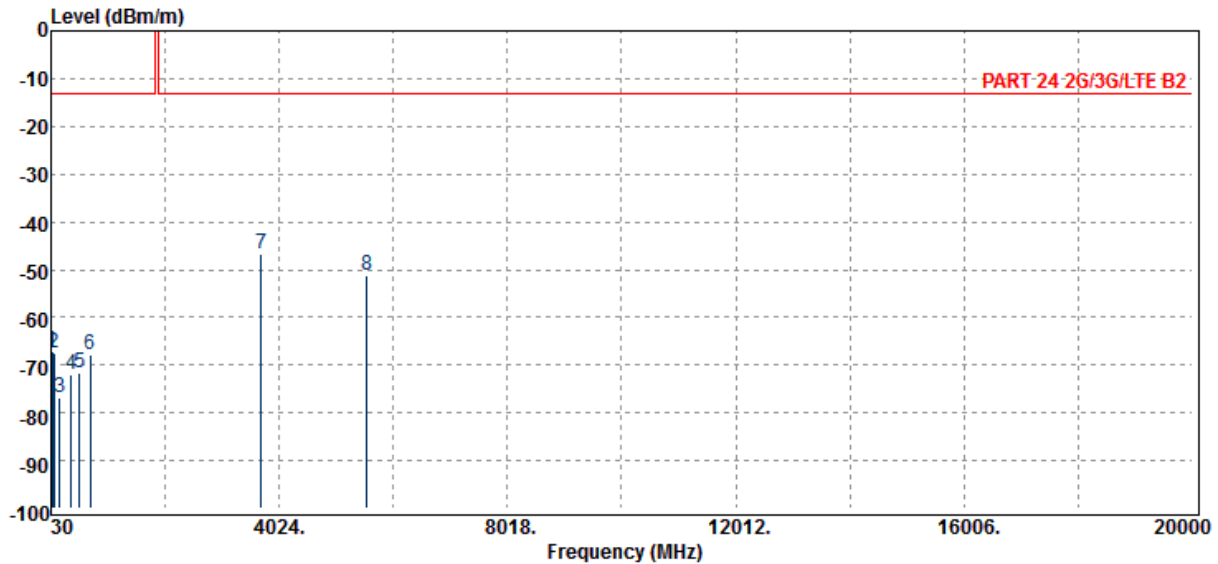
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-54.08	-50.55	-2.50	-1.03	-13.00	-41.08
178.41	S	-73.85	-75.22	2.87	-1.50	-13.00	-60.85
372.41	S	-72.38	-76.27	5.85	-1.96	-13.00	-59.38
511.12	S	-70.33	-73.83	5.87	-2.36	-13.00	-57.33
606.18	S	-66.94	-69.82	5.62	-2.74	-13.00	-53.94
720.64	S	-66.49	-69.36	5.49	-2.63	-13.00	-53.49
3700.40	H	-50.14	-51.69	8.43	-6.88	-13.00	-37.14
5550.60	H	-45.31	-46.86	10.10	-8.55	-13.00	-32.31

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ARFCN	:CH 512	Test Date	:2015-06-11
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



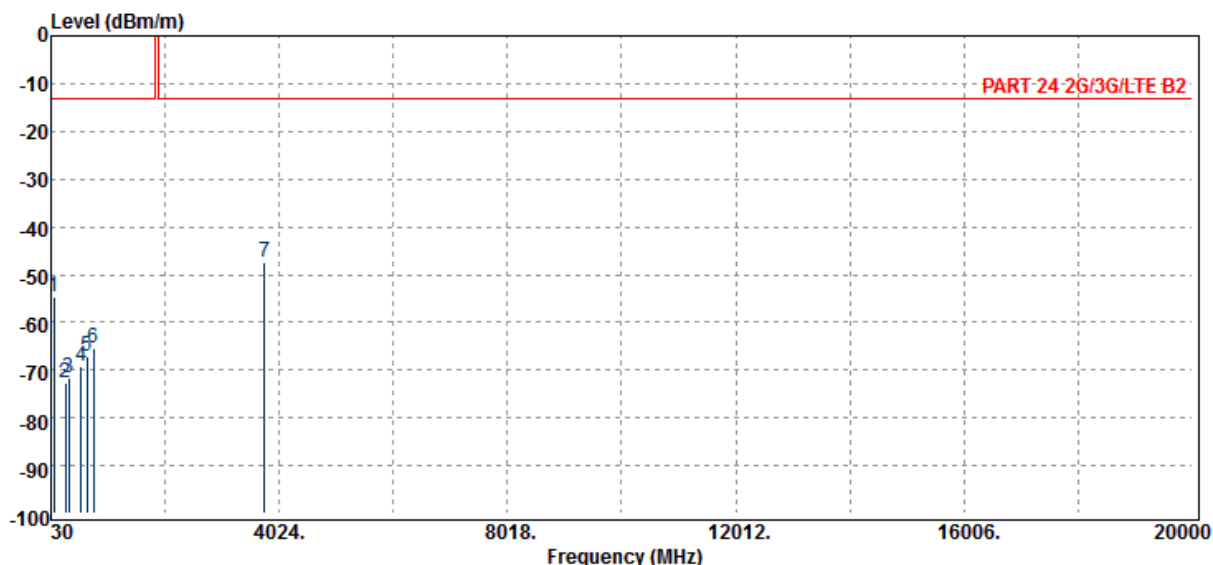
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
52.31	S	-67.01	-57.46	-8.63	-0.92	-13.00	-54.01
75.59	S	-67.55	-64.61	-1.91	-1.03	-13.00	-54.55
180.35	S	-76.90	-78.60	3.20	-1.50	-13.00	-63.90
379.20	S	-72.06	-75.93	5.83	-1.95	-13.00	-59.06
522.76	S	-71.56	-74.96	5.83	-2.43	-13.00	-58.56
721.61	S	-67.73	-70.59	5.49	-2.63	-13.00	-54.73
3700.40	H	-46.68	-48.22	8.43	-6.88	-13.00	-33.68
5550.60	H	-51.29	-52.84	10.10	-8.55	-13.00	-38.29

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ARFCN	:CH 661	Test Date	:2015-06-11
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



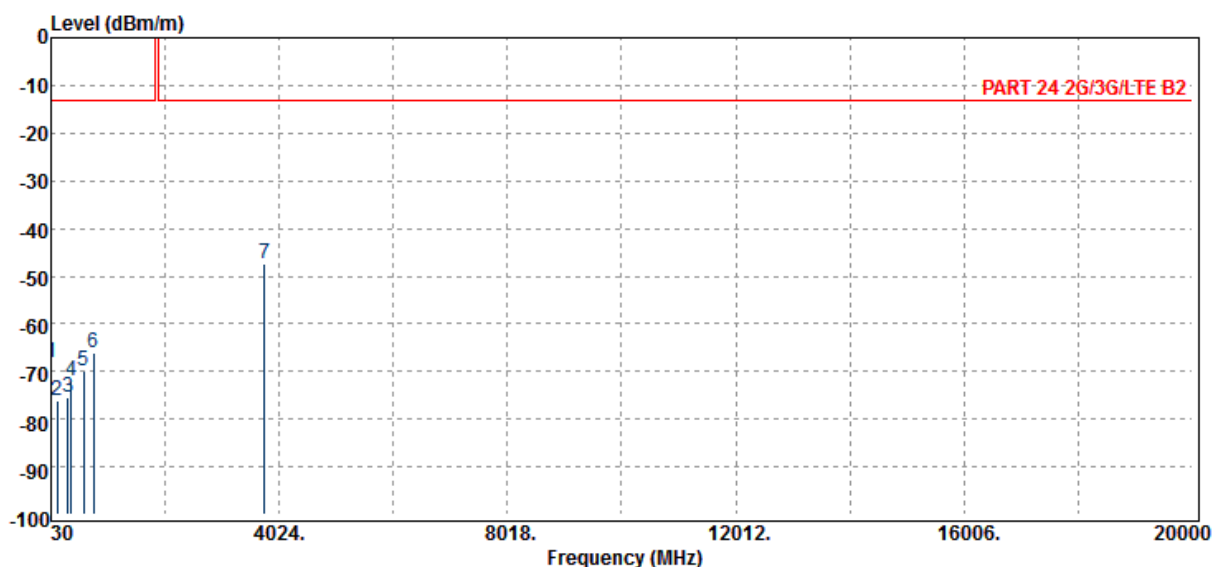
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-54.58	-51.05	-2.50	-1.03	-13.00	-41.58
289.96	S	-72.74	-76.57	5.58	-1.74	-13.00	-59.74
340.40	S	-71.73	-75.68	5.89	-1.93	-13.00	-58.73
550.89	S	-69.04	-72.20	5.73	-2.58	-13.00	-56.04
655.65	S	-66.99	-70.10	5.76	-2.65	-13.00	-53.99
773.02	S	-65.49	-68.24	5.51	-2.75	-13.00	-52.49
3760.00	H	-47.50	-48.94	8.46	-7.02	-13.00	-34.50

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ARFCN	:CH 661	Test Date	:2015-06-11
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



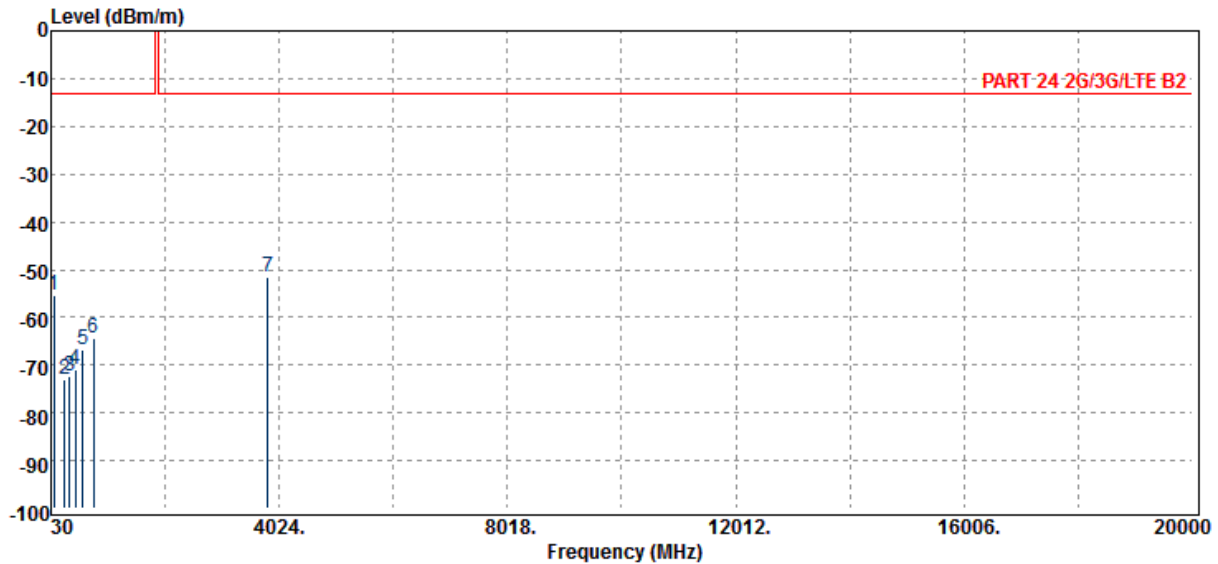
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-68.04	-55.73	-11.52	-0.78	-13.00	-55.04
145.43	S	-76.07	-74.53	-0.17	-1.36	-13.00	-63.07
321.97	S	-75.31	-79.28	5.84	-1.87	-13.00	-62.31
384.05	S	-72.05	-75.91	5.81	-1.95	-13.00	-59.05
596.48	S	-69.91	-72.76	5.60	-2.75	-13.00	-56.91
776.90	S	-65.95	-68.70	5.52	-2.77	-13.00	-52.95
3760.00	H	-47.31	-48.76	8.46	-7.02	-13.00	-34.31

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ARFCN	:CH 810	Test Date	:2015-06-11
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
75.59	S	-55.33	-52.38	-1.91	-1.03	-13.00	-42.33
267.65	S	-73.04	-77.13	5.77	-1.69	-13.00	-60.04
361.74	S	-72.49	-76.41	5.88	-1.96	-13.00	-59.49
455.83	S	-70.98	-74.44	5.54	-2.08	-13.00	-57.98
580.96	S	-66.81	-69.74	5.65	-2.72	-13.00	-53.81
772.05	S	-64.44	-67.19	5.50	-2.75	-13.00	-51.44
3819.60	H	-51.68	-53.12	8.50	-7.05	-13.00	-38.68

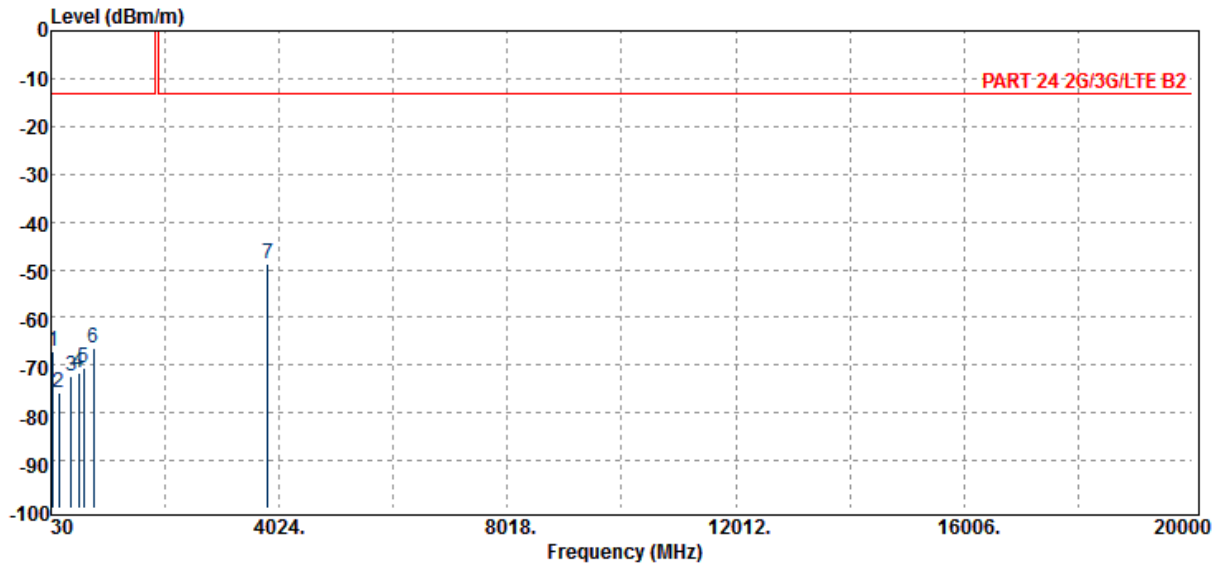
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ARFCN	:CH 810	Test Date	:2015-06-11
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
72.68	S	-66.99	-63.16	-2.81	-1.02	-13.00	-53.99
169.68	S	-75.95	-75.88	1.42	-1.48	-13.00	-62.95
380.17	S	-72.45	-76.32	5.82	-1.95	-13.00	-59.45
515.97	S	-71.52	-74.98	5.85	-2.39	-13.00	-58.52
600.36	S	-70.62	-73.47	5.59	-2.75	-13.00	-57.62
768.17	S	-66.48	-69.24	5.49	-2.74	-13.00	-53.48
3819.60	H	-48.74	-50.19	8.50	-7.05	-13.00	-35.74

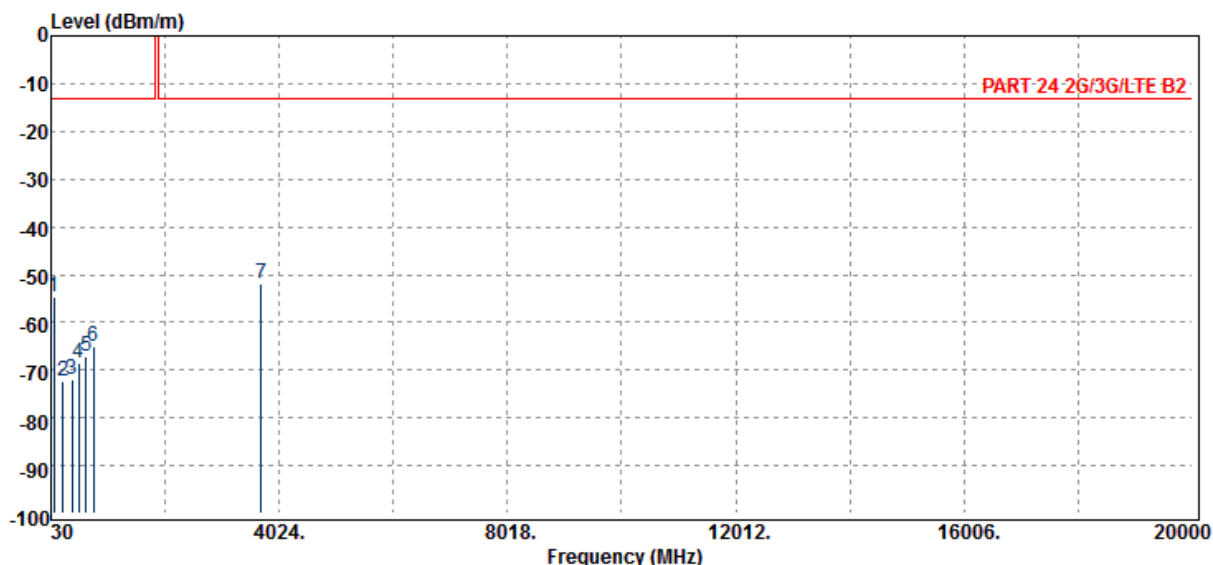
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**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

ARFCN	:CH 9262	Test Date	:2015-06-11
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-54.76	-51.23	-2.50	-1.03	-13.00	-41.76
241.46	S	-72.37	-76.22	5.46	-1.61	-13.00	-59.37
397.63	S	-72.09	-75.92	5.78	-1.95	-13.00	-59.09
517.91	S	-68.40	-71.85	5.85	-2.40	-13.00	-55.40
650.80	S	-67.15	-70.27	5.78	-2.66	-13.00	-54.15
773.99	S	-65.15	-67.90	5.51	-2.76	-13.00	-52.15
3704.80	H	-52.05	-53.59	8.43	-6.89	-13.00	-39.05

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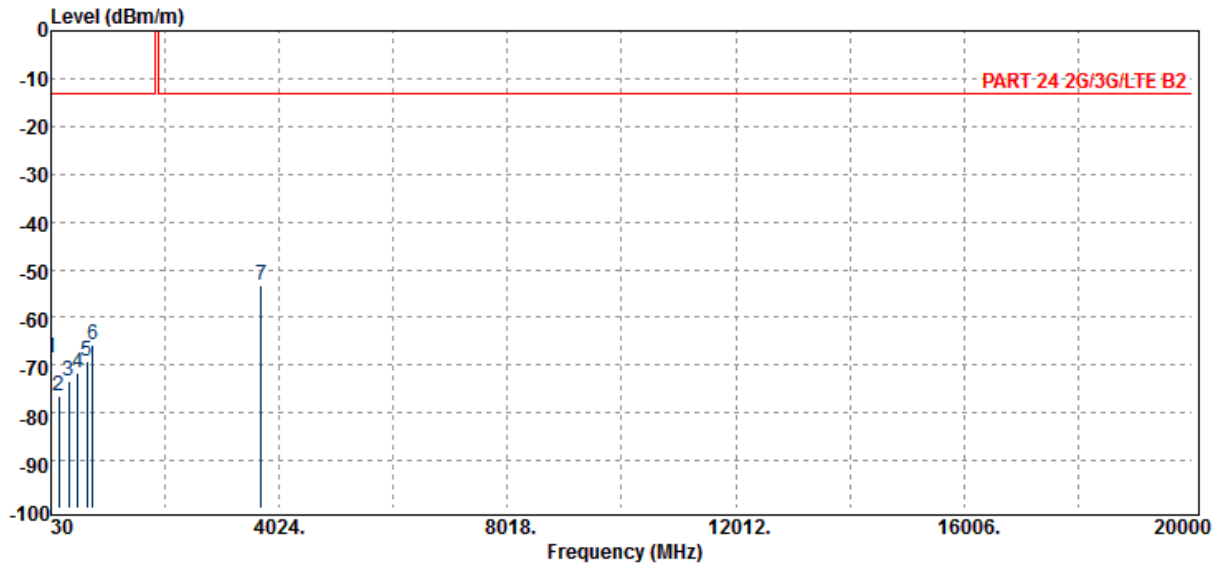
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ARFCN	:CH 9262	Test Date	:2015-06-11
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



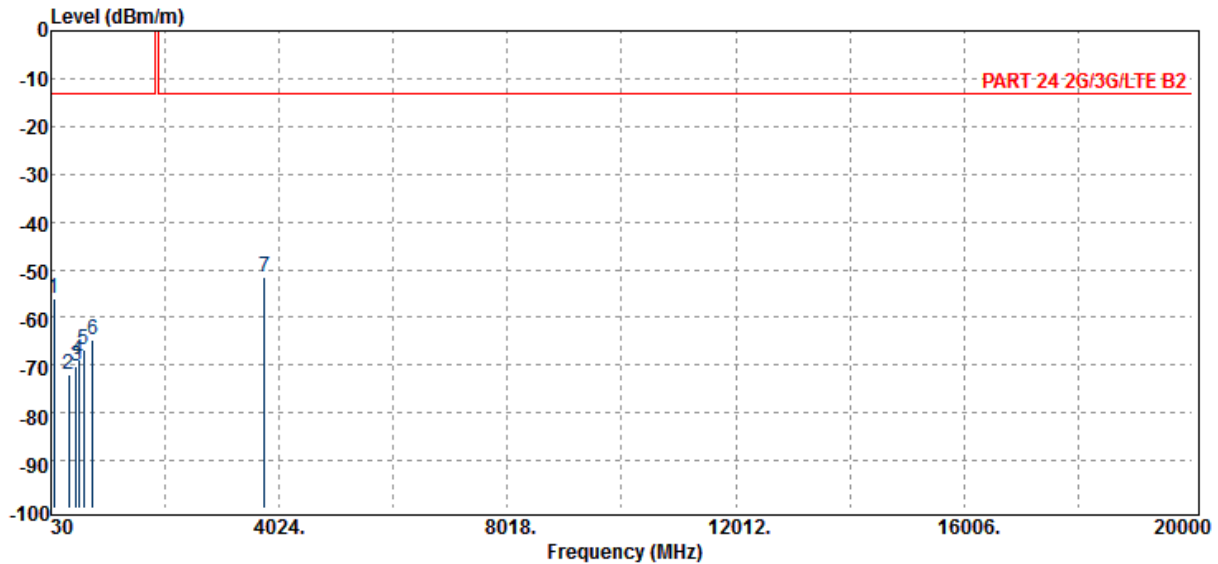
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-68.40	-56.09	-11.52	-0.78	-13.00	-55.40
171.62	S	-76.63	-76.86	1.72	-1.49	-13.00	-63.63
341.37	S	-73.47	-77.42	5.89	-1.94	-13.00	-60.47
495.60	S	-71.72	-75.32	5.87	-2.28	-13.00	-58.72
653.71	S	-69.10	-72.22	5.77	-2.65	-13.00	-56.10
766.23	S	-65.79	-68.54	5.48	-2.73	-13.00	-52.79
3704.80	H	-53.19	-54.73	8.43	-6.89	-13.00	-40.19

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ARFCN	:CH 9400	Test Date	:2015-06-11
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



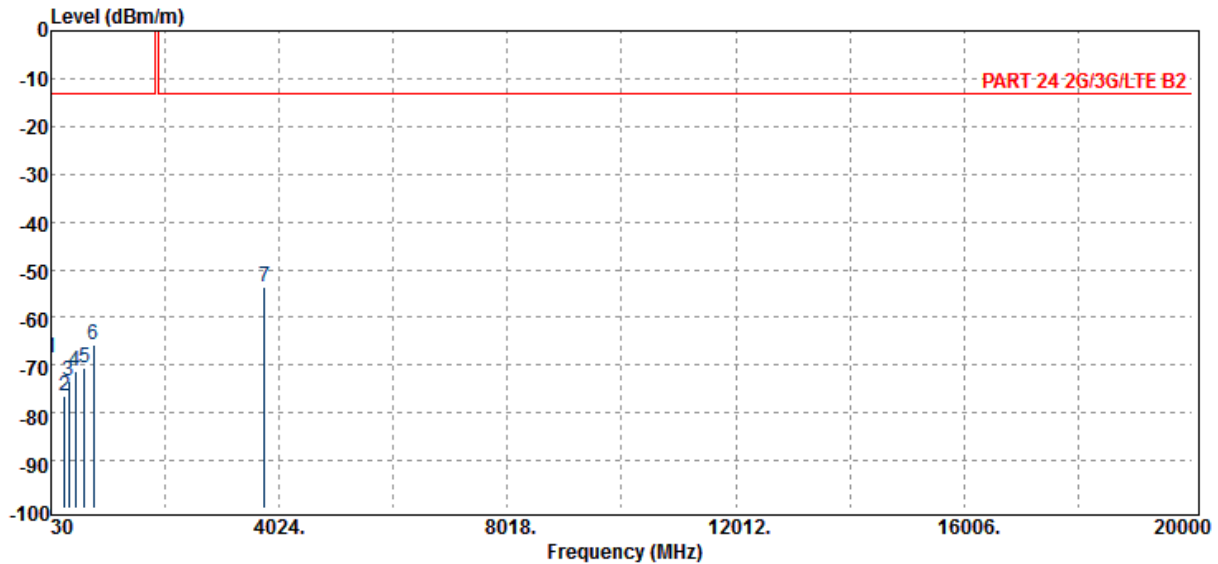
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
75.59	S	-55.92	-52.98	-1.91	-1.03	-13.00	-42.92
343.31	S	-71.89	-75.83	5.89	-1.94	-13.00	-58.89
468.44	S	-70.40	-73.93	5.65	-2.12	-13.00	-57.40
519.85	S	-68.88	-72.31	5.84	-2.41	-13.00	-55.88
599.39	S	-66.74	-69.59	5.59	-2.75	-13.00	-53.74
761.38	S	-64.58	-67.33	5.47	-2.72	-13.00	-51.58
3760.00	H	-51.61	-53.05	8.46	-7.02	-13.00	-38.61

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ARFCN	:CH 9400	Test Date	:2015-06-11
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



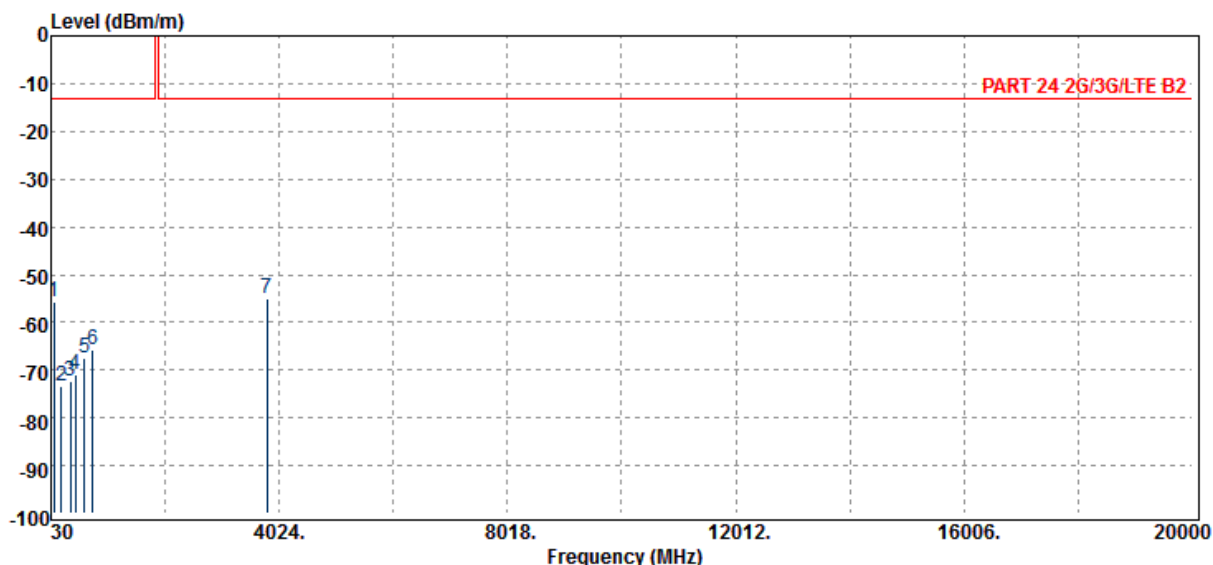
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-68.65	-57.25	-10.57	-0.84	-13.00	-55.65
267.65	S	-76.61	-80.70	5.77	-1.69	-13.00	-63.61
339.43	S	-73.33	-77.29	5.88	-1.93	-13.00	-60.33
460.68	S	-71.31	-74.80	5.59	-2.10	-13.00	-58.31
619.76	S	-70.46	-73.42	5.67	-2.71	-13.00	-57.46
767.20	S	-65.83	-68.58	5.49	-2.74	-13.00	-52.83
3760.00	H	-53.71	-55.15	8.46	-7.02	-13.00	-40.71

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ARFCN	:CH 9538	Test Date	:2015-06-11
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



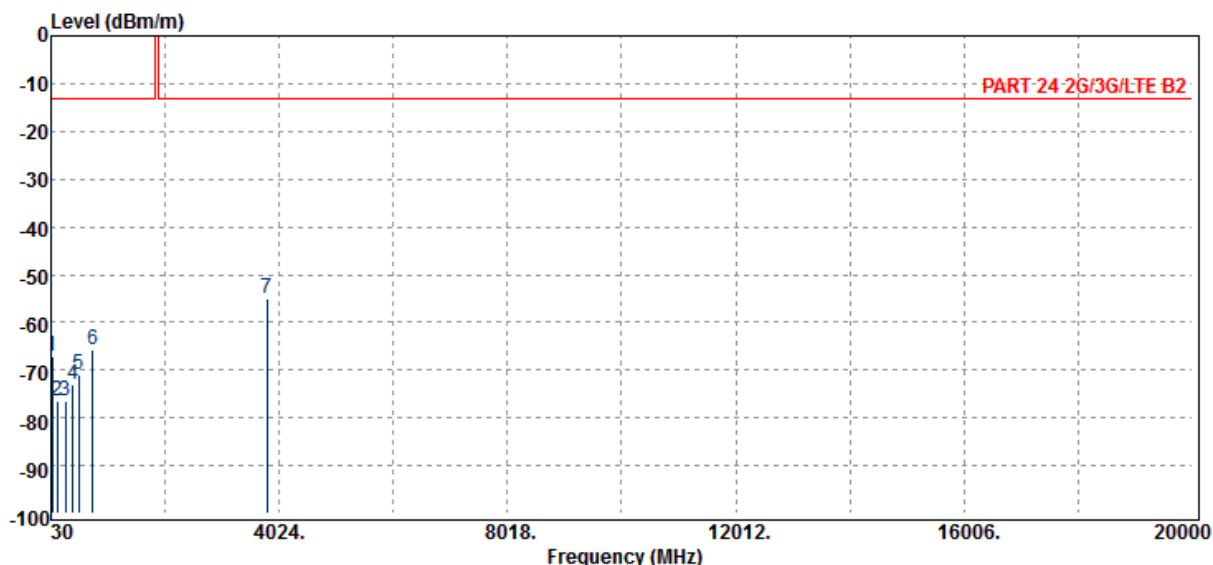
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
75.59	S	-55.79	-52.85	-1.91	-1.03	-13.00	-42.79
209.45	S	-73.50	-77.80	5.85	-1.55	-13.00	-60.50
369.50	S	-72.28	-76.18	5.85	-1.96	-13.00	-59.28
457.77	S	-70.98	-74.45	5.56	-2.09	-13.00	-57.98
621.70	S	-67.34	-70.31	5.68	-2.71	-13.00	-54.34
765.26	S	-65.65	-68.40	5.48	-2.73	-13.00	-52.65
3815.20	H	-54.99	-56.44	8.49	-7.05	-13.00	-41.99

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ARFCN	:CH 9538	Test Date	:2015-06-11
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
53.28	S	-67.10	-57.82	-8.36	-0.93	-13.00	-54.10
145.43	S	-76.51	-74.97	-0.17	-1.36	-13.00	-63.51
289.96	S	-76.62	-80.46	5.58	-1.74	-13.00	-63.62
409.27	S	-72.89	-76.67	5.72	-1.94	-13.00	-59.89
510.15	S	-70.93	-74.44	5.87	-2.36	-13.00	-57.93
764.29	S	-65.73	-68.48	5.48	-2.73	-13.00	-52.73
3815.20	H	-54.85	-56.30	8.49	-7.05	-13.00	-41.85

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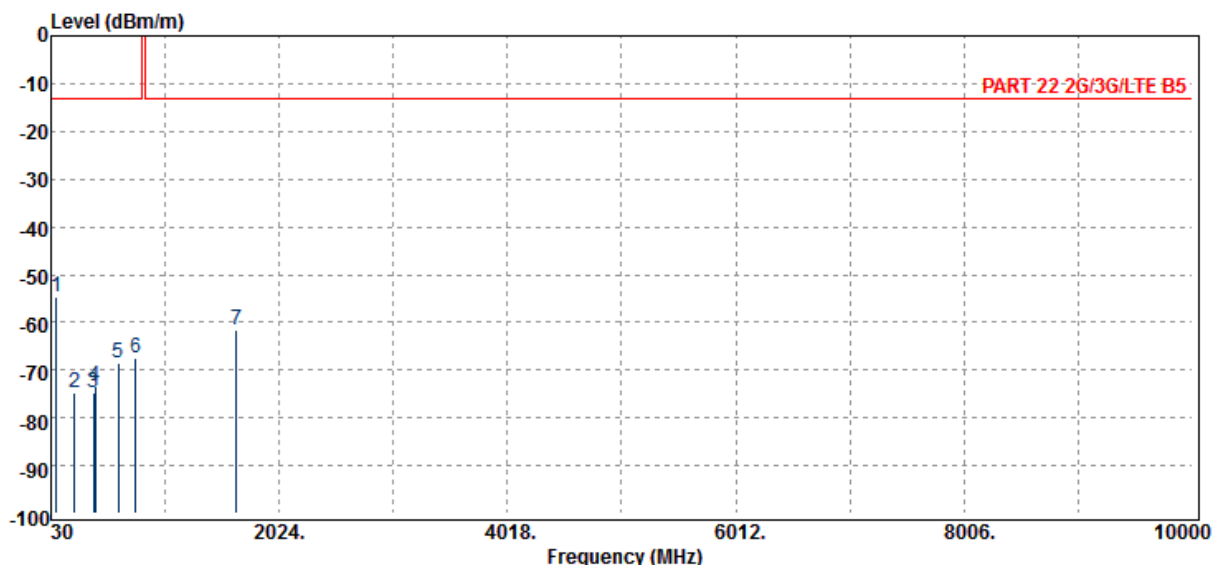
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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

ARFCN	:CH 4132	Test Date	:2015-06-11
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

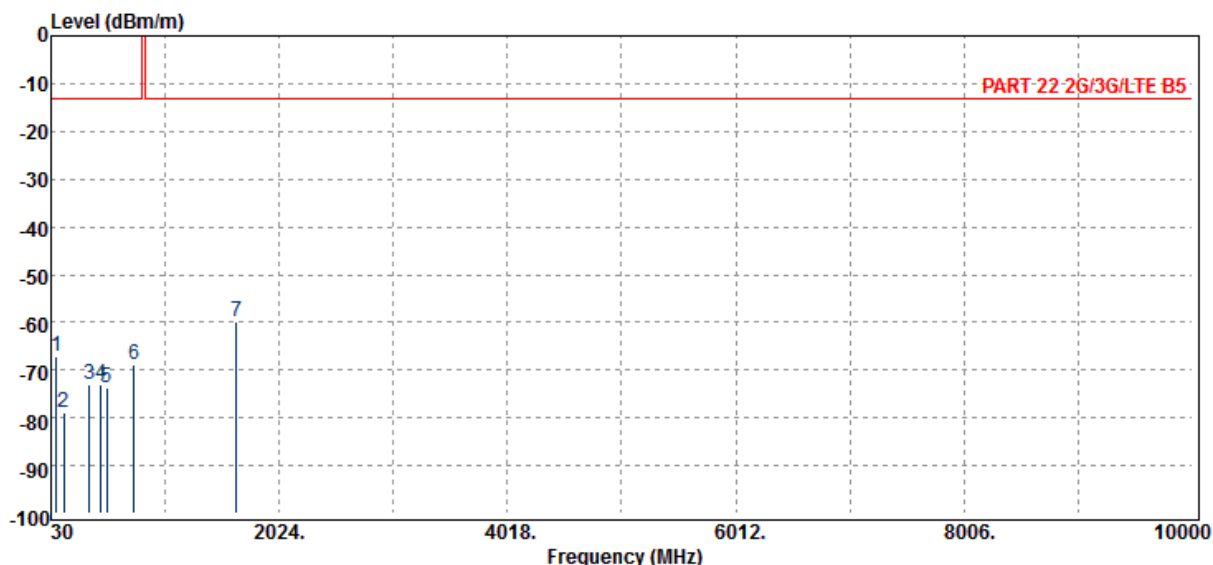


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
78.50	S	-54.51	-50.27	-3.19	-1.05	-13.00	-41.51
234.67	S	-74.80	-76.51	3.30	-1.59	-13.00	-61.80
400.54	S	-74.60	-76.27	3.62	-1.95	-13.00	-61.60
416.06	S	-73.35	-74.92	3.53	-1.96	-13.00	-60.35
619.76	S	-68.45	-69.26	3.52	-2.71	-13.00	-55.45
766.23	S	-67.57	-68.17	3.33	-2.73	-13.00	-54.57
1652.80	H	-61.56	-60.38	3.05	-4.22	-13.00	-48.56

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ARFCN	:CH 4132	Test Date	:2015-06-11
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



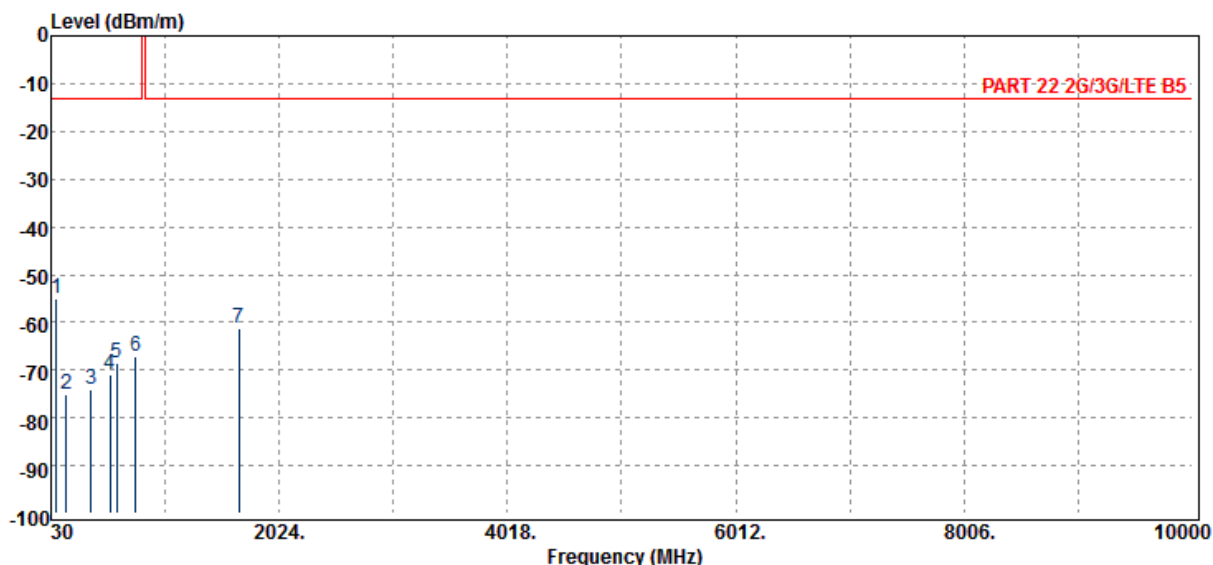
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	S	-67.29	-61.91	-4.35	-1.03	-13.00	-54.29
144.46	S	-78.85	-75.12	-2.37	-1.36	-13.00	-65.85
367.56	S	-72.90	-74.65	3.71	-1.96	-13.00	-59.90
465.53	S	-73.11	-74.48	3.48	-2.11	-13.00	-60.11
519.85	S	-73.72	-74.99	3.69	-2.41	-13.00	-60.72
757.50	S	-68.73	-69.32	3.31	-2.71	-13.00	-55.73
1652.80	H	-59.90	-58.72	3.05	-4.22	-13.00	-46.90

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ARFCN	:CH 4183	Test Date	:2015-06-11
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	S	-54.96	-49.58	-4.35	-1.03	-13.00	-41.96
166.77	S	-75.06	-72.65	-0.94	-1.47	-13.00	-62.06
382.11	S	-74.09	-75.80	3.67	-1.95	-13.00	-61.09
548.95	S	-70.90	-71.92	3.59	-2.57	-13.00	-57.90
601.33	S	-68.65	-69.35	3.45	-2.74	-13.00	-55.65
771.08	S	-67.14	-67.74	3.35	-2.75	-13.00	-54.14
1673.20	H	-61.09	-59.84	3.01	-4.26	-13.00	-48.09

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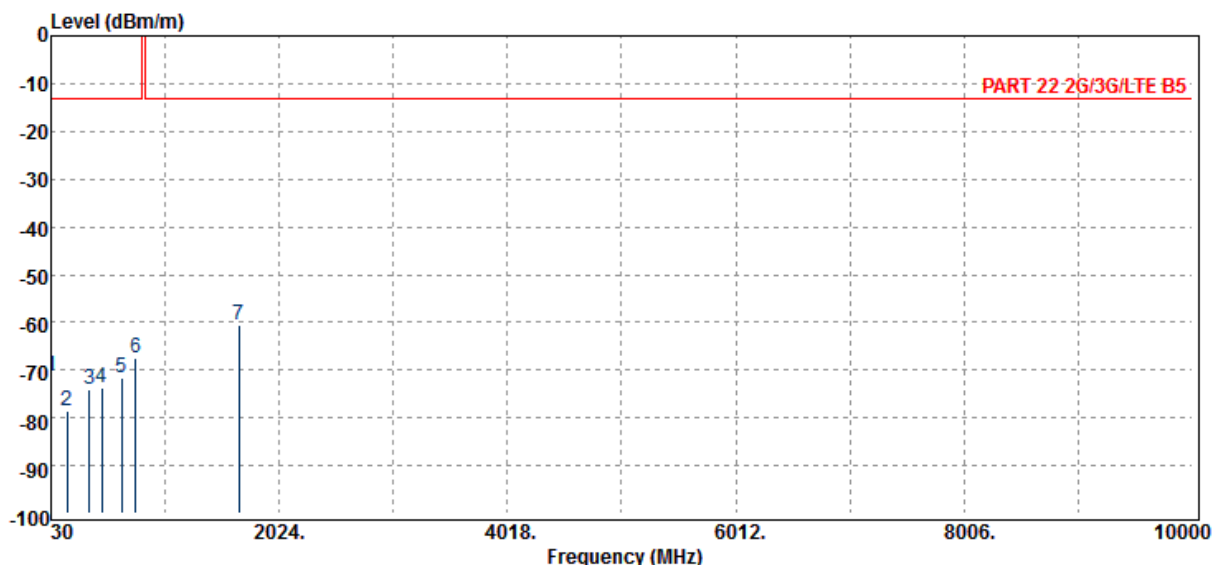
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ARFCN	:CH 4183	Test Date	:2015-06-11
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



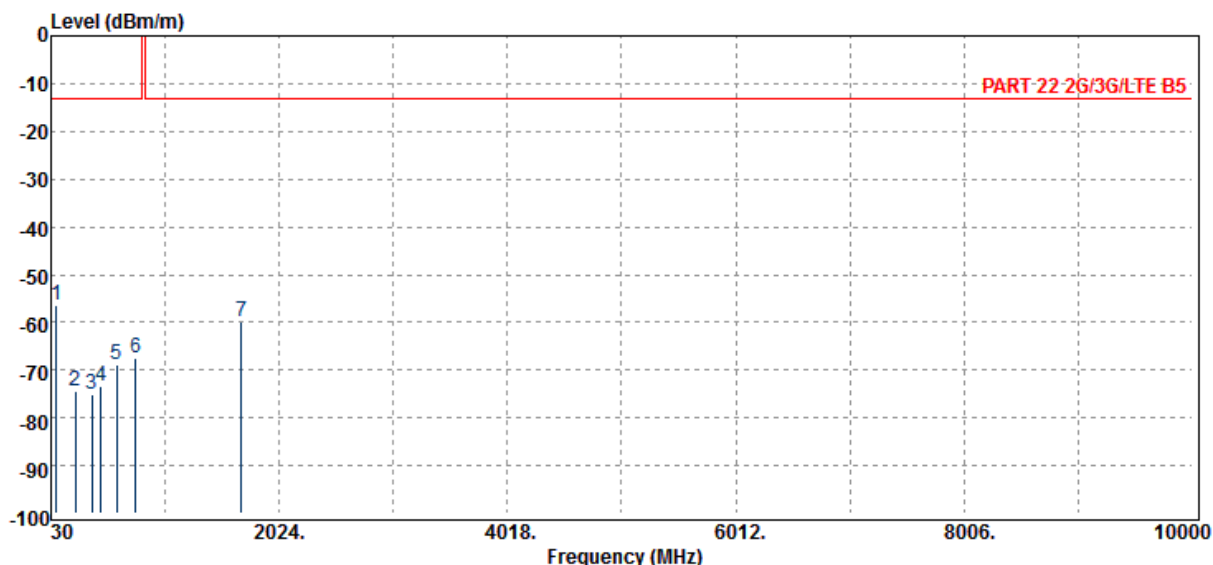
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-71.14	-56.24	-14.13	-0.76	-13.00	-58.14
167.74	S	-78.69	-76.35	-0.87	-1.47	-13.00	-65.69
367.56	S	-73.96	-75.71	3.71	-1.96	-13.00	-60.96
471.35	S	-73.64	-75.03	3.53	-2.13	-13.00	-60.64
646.92	S	-71.55	-72.52	3.63	-2.66	-13.00	-58.55
767.20	S	-67.38	-67.98	3.34	-2.74	-13.00	-54.38
1673.20	H	-60.60	-59.36	3.01	-4.26	-13.00	-47.60

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ARFCN	:CH 4233	Test Date	:2015-06-11
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



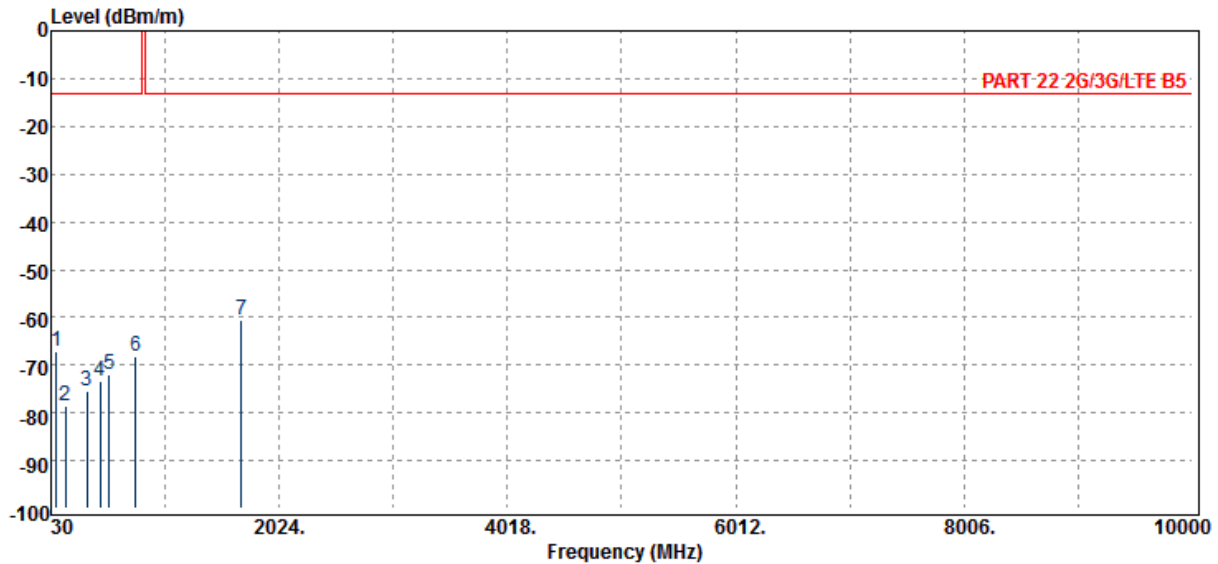
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	S	-56.33	-50.95	-4.35	-1.03	-13.00	-43.33
240.49	S	-74.52	-76.21	3.29	-1.61	-13.00	-61.52
385.99	S	-74.98	-76.69	3.66	-1.95	-13.00	-61.98
464.56	S	-73.47	-74.83	3.47	-2.11	-13.00	-60.47
604.24	S	-69.02	-69.74	3.46	-2.74	-13.00	-56.02
768.17	S	-67.34	-67.94	3.34	-2.74	-13.00	-54.34
1693.20	H	-59.84	-58.54	2.97	-4.27	-13.00	-46.84

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ARFCN	:CH 4233	Test Date	:2015-06-11
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	S	-66.98	-61.60	-4.35	-1.03	-13.00	-53.98
153.19	S	-78.43	-75.14	-1.88	-1.40	-13.00	-65.43
342.34	S	-75.54	-77.34	3.74	-1.94	-13.00	-62.54
455.83	S	-73.37	-74.69	3.39	-2.08	-13.00	-60.37
535.37	S	-72.11	-73.25	3.64	-2.50	-13.00	-59.11
772.05	S	-68.25	-68.86	3.35	-2.75	-13.00	-55.25
1693.20	H	-60.69	-59.39	2.97	-4.27	-13.00	-47.69

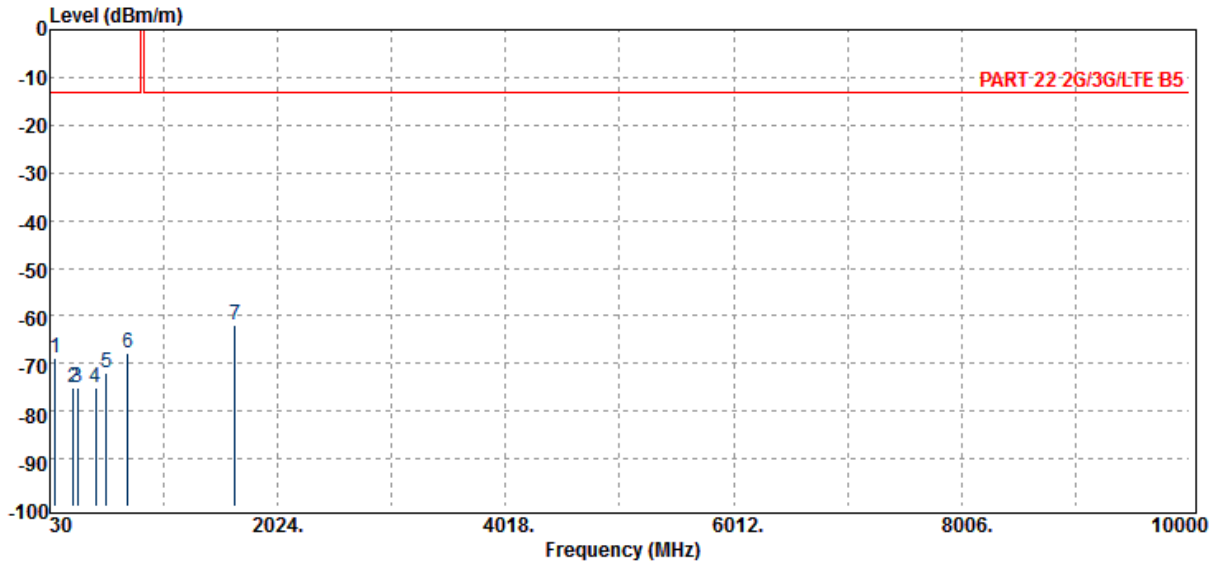
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**Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 5(The Worst Case)**

ARFCN	:CH 20415 16QAM BW 3	Test Date	:2015-06-11
	RB 1 14		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	S	-68.85	-64.61	-3.19	-1.05	-13.00	-55.85
236.61	S	-74.97	-76.67	3.29	-1.60	-13.00	-61.97
272.50	S	-75.25	-77.09	3.54	-1.70	-13.00	-62.25
427.70	S	-75.00	-76.47	3.46	-2.00	-13.00	-62.00
526.64	S	-71.98	-73.19	3.67	-2.45	-13.00	-58.98
710.94	S	-67.81	-68.57	3.36	-2.60	-13.00	-54.81
1651.00	H	-62.00	-60.83	3.05	-4.22	-13.00	-49.00

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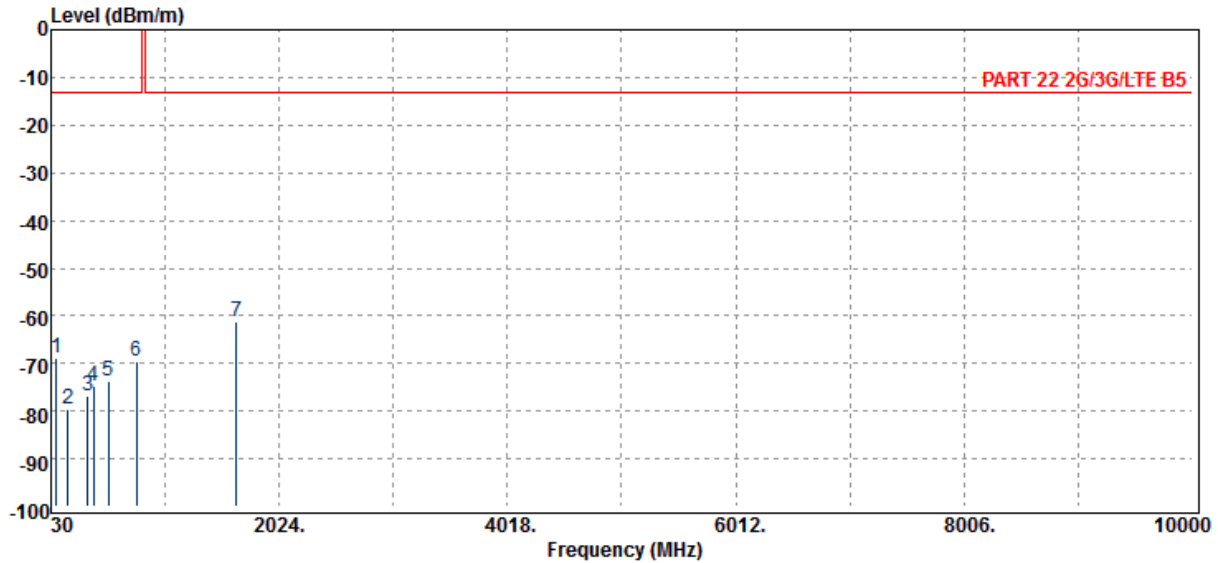
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ARFCN	:CH 20415 16QAM BW 3 RB 1 14	Test Date	:2015-06-11
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



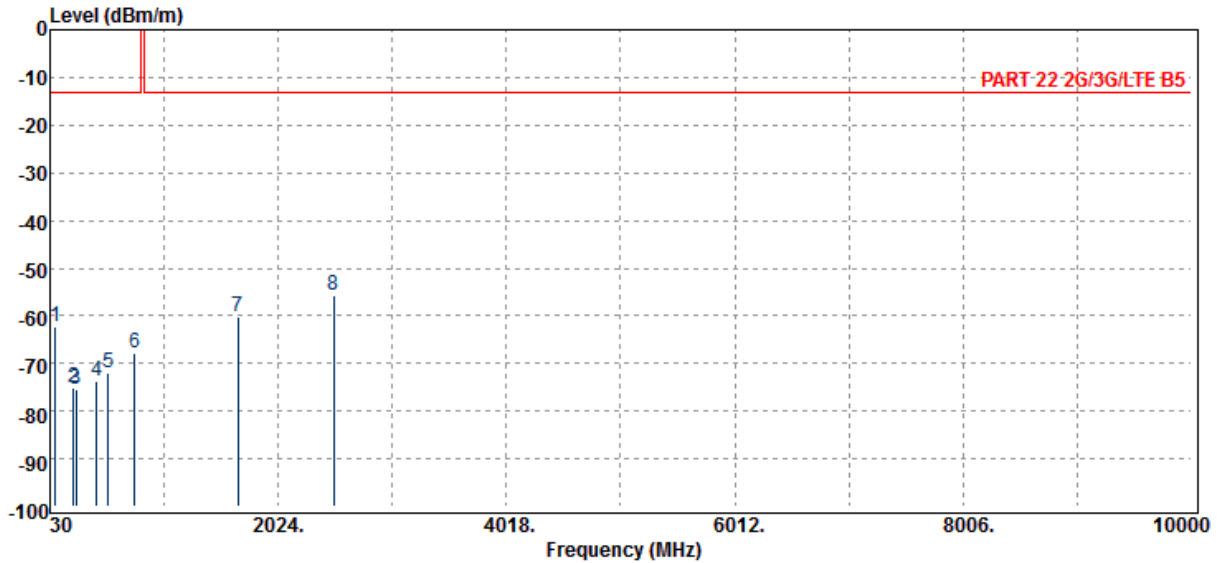
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-69.00	-63.32	-4.65	-1.03	-13.00	-56.00
180.35	S	-79.68	-79.22	1.05	-1.50	-13.00	-66.68
348.16	S	-76.67	-78.47	3.76	-1.96	-13.00	-63.67
398.60	S	-74.66	-76.34	3.62	-1.95	-13.00	-61.66
531.49	S	-73.77	-74.94	3.65	-2.48	-13.00	-60.77
776.90	S	-69.51	-70.11	3.37	-2.77	-13.00	-56.51
1651.00	H	-61.32	-60.16	3.05	-4.22	-13.00	-48.32

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ARFCN	:CH 20415 16QAM BW 3 RB 1 14	Test Date	:2015-06-11
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
76.56	S	-62.25	-57.44	-3.77	-1.04	-13.00	-49.25
235.64	S	-75.17	-76.87	3.30	-1.59	-13.00	-62.17
255.04	S	-75.46	-77.37	3.56	-1.65	-13.00	-62.46
439.34	S	-73.53	-74.90	3.40	-2.03	-13.00	-60.53
536.34	S	-71.97	-73.10	3.63	-2.50	-13.00	-58.97
770.11	S	-67.73	-68.33	3.35	-2.74	-13.00	-54.73
1673.00	H	-60.20	-58.95	3.01	-4.26	-13.00	-47.20
2509.50	H	-55.74	-54.06	3.67	-5.35	-13.00	-42.74

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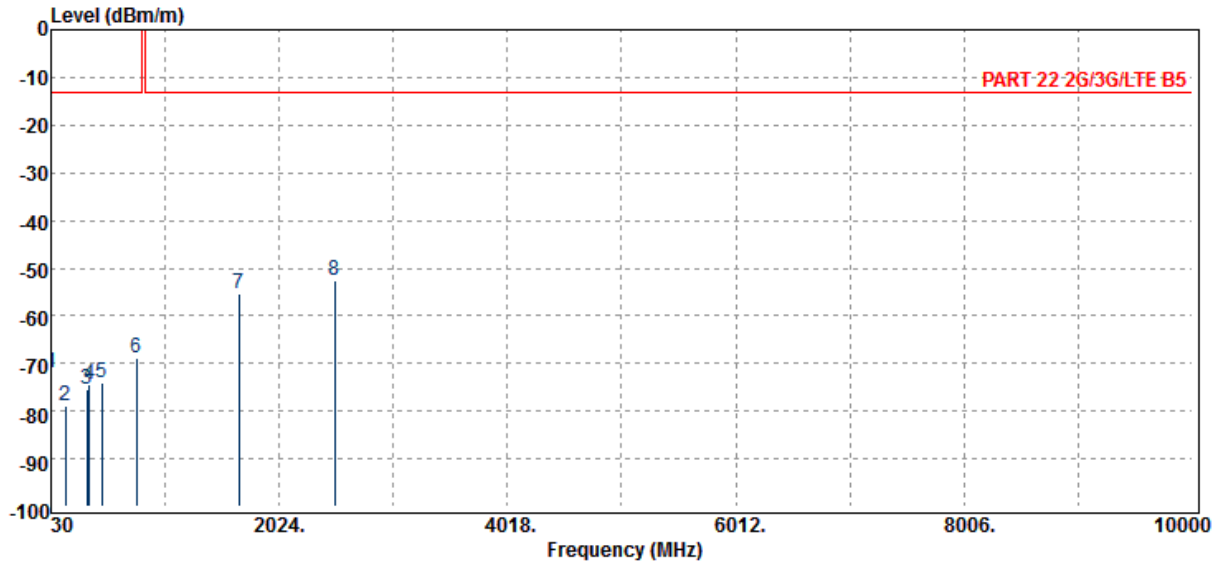
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ARFCN	:CH 20415 16QAM BW 3	Test Date	:2015-06-11
	RB 1 14		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



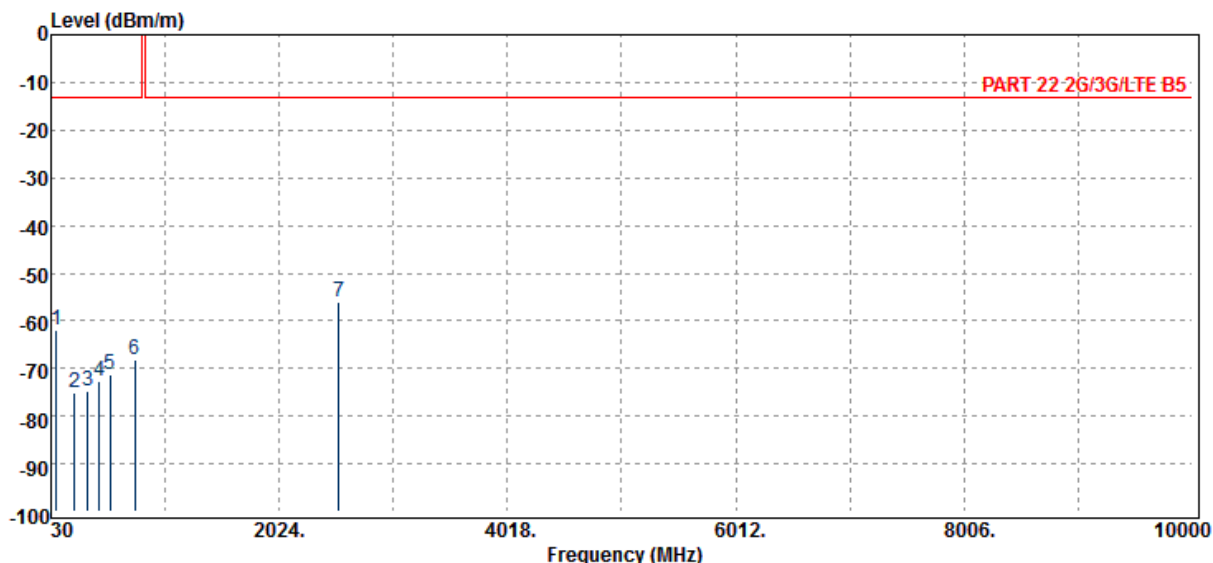
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-72.09	-57.64	-13.67	-0.78	-13.00	-59.09
154.16	S	-79.04	-75.81	-1.82	-1.41	-13.00	-66.04
342.34	S	-75.35	-77.15	3.74	-1.94	-13.00	-62.35
367.56	S	-74.29	-76.04	3.71	-1.96	-13.00	-61.29
473.29	S	-74.03	-75.43	3.54	-2.14	-13.00	-61.03
776.90	S	-68.92	-69.52	3.37	-2.77	-13.00	-55.92
1673.00	H	-55.46	-54.22	3.01	-4.26	-13.00	-42.46
2509.50	H	-52.63	-50.95	3.67	-5.35	-13.00	-39.63

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ARFCN	:CH 20643 16QAM BW 3	Test Date	:2015-06-11
	RB 1 14		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	S	-61.88	-57.64	-3.19	-1.05	-13.00	-48.88
235.64	S	-75.24	-76.94	3.30	-1.59	-13.00	-62.24
348.16	S	-74.76	-76.56	3.76	-1.96	-13.00	-61.76
450.01	S	-72.64	-73.92	3.34	-2.07	-13.00	-59.64
547.01	S	-71.39	-72.43	3.60	-2.56	-13.00	-58.39
759.44	S	-68.13	-68.73	3.31	-2.72	-13.00	-55.13
2544.90	H	-56.11	-54.45	3.75	-5.41	-13.00	-43.11

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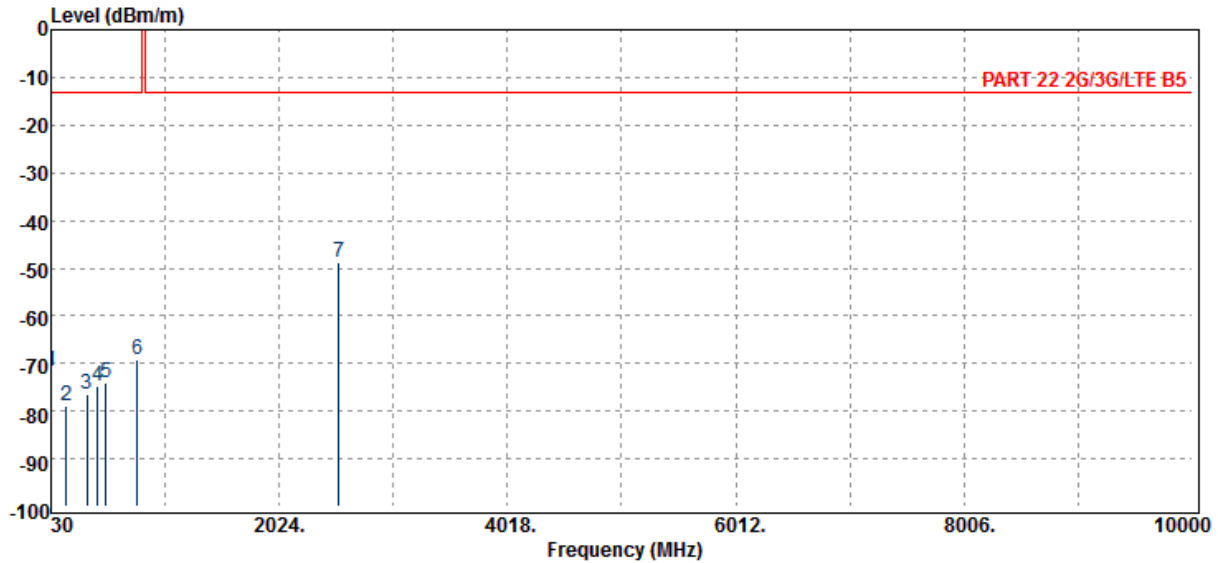
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ARFCN	:CH 20643 16QAM BW 3 RB 1 14	Test Date	:2015-06-11
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-71.55	-56.66	-14.13	-0.76	-13.00	-58.55
163.86	S	-79.06	-76.45	-1.15	-1.46	-13.00	-66.06
343.31	S	-76.43	-78.23	3.74	-1.94	-13.00	-63.43
437.40	S	-74.73	-76.11	3.41	-2.03	-13.00	-61.73
508.21	S	-73.88	-75.27	3.73	-2.35	-13.00	-60.88
786.60	S	-69.30	-69.90	3.40	-2.80	-13.00	-56.30
2544.90	H	-48.64	-46.98	3.75	-5.41	-13.00	-35.64

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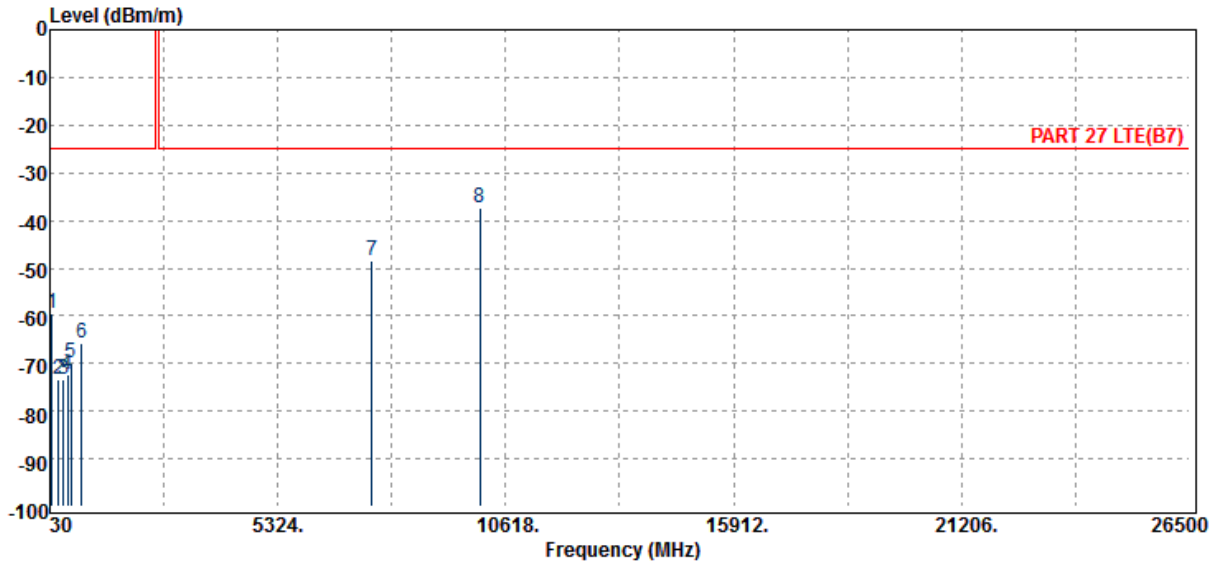
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

ARFCN	:CH 20775 16QAM BW 5	Test Date	:2015-06-11
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



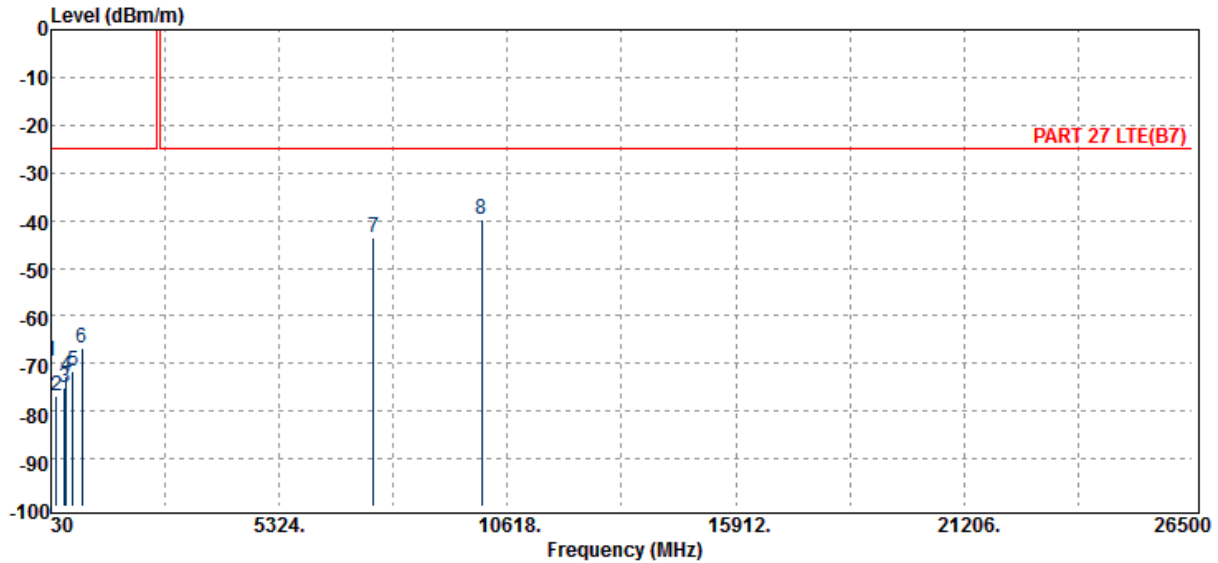
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
75.59	S	-59.59	-56.65	-1.91	-1.03	-25.00	-34.59
237.58	S	-73.40	-77.24	5.44	-1.60	-25.00	-48.40
350.10	S	-73.48	-77.42	5.91	-1.97	-25.00	-48.48
445.16	S	-72.16	-75.63	5.52	-2.05	-25.00	-47.16
522.76	S	-69.95	-73.35	5.83	-2.43	-25.00	-44.95
765.26	S	-65.71	-68.46	5.48	-2.73	-25.00	-40.71
7507.50	H	-48.48	-50.47	11.71	-9.71	-25.00	-23.48
10010.00	H	-37.23	-38.51	12.60	-11.32	-25.00	-12.23

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ARFCN	:CH 20775 16QAM BW 5 RB 1 0	Test Date	:2015-06-11
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



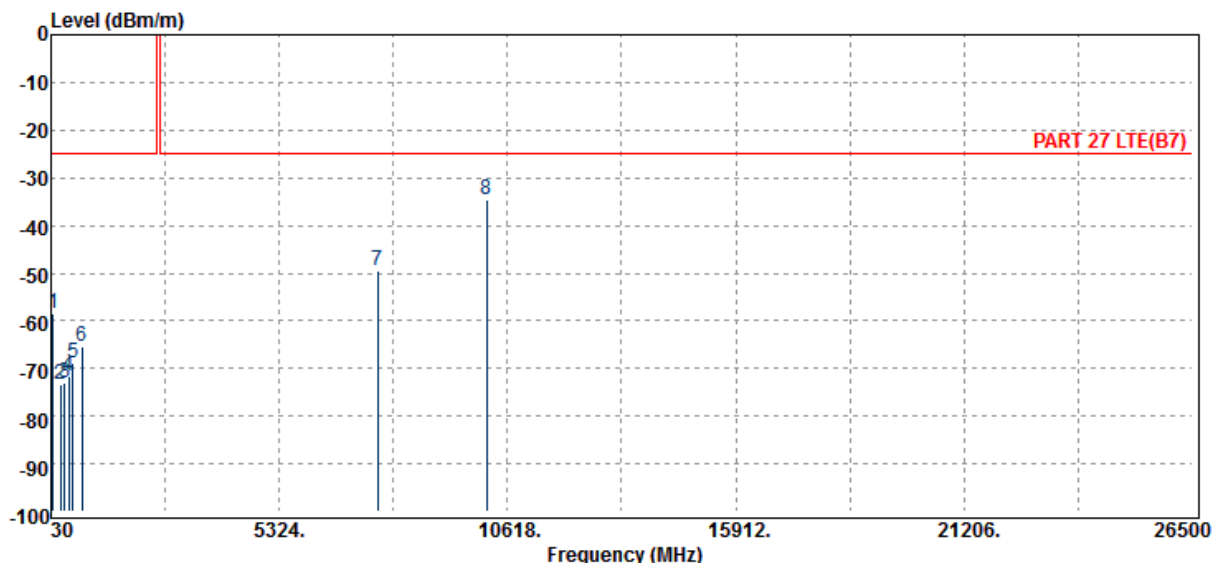
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-69.54	-56.08	-12.73	-0.73	-25.00	-44.54
160.95	S	-76.77	-76.11	0.78	-1.44	-25.00	-51.77
340.40	S	-74.92	-78.88	5.89	-1.93	-25.00	-49.92
381.14	S	-72.76	-76.63	5.82	-1.95	-25.00	-47.76
536.34	S	-71.56	-74.84	5.78	-2.50	-25.00	-46.56
740.04	S	-66.88	-69.65	5.45	-2.67	-25.00	-41.88
7507.50	H	-43.77	-45.76	11.71	-9.71	-25.00	-18.77
10010.00	H	-39.96	-41.25	12.60	-11.32	-25.00	-14.96

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ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Test Date	:2015-06-11
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2535 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	S	-58.31	-56.22	-1.04	-1.05	-25.00	-33.31
246.31	S	-73.28	-77.18	5.53	-1.63	-25.00	-48.28
345.25	S	-73.09	-77.04	5.90	-1.95	-25.00	-48.09
439.34	S	-71.48	-74.99	5.55	-2.03	-25.00	-46.48
534.40	S	-68.93	-72.23	5.79	-2.49	-25.00	-43.93
752.65	S	-65.44	-68.18	5.44	-2.70	-25.00	-40.44
7605.00	H	-49.36	-51.40	11.79	-9.75	-25.00	-24.36
10140.00	H	-34.77	-36.11	12.63	-11.30	-25.00	-9.77

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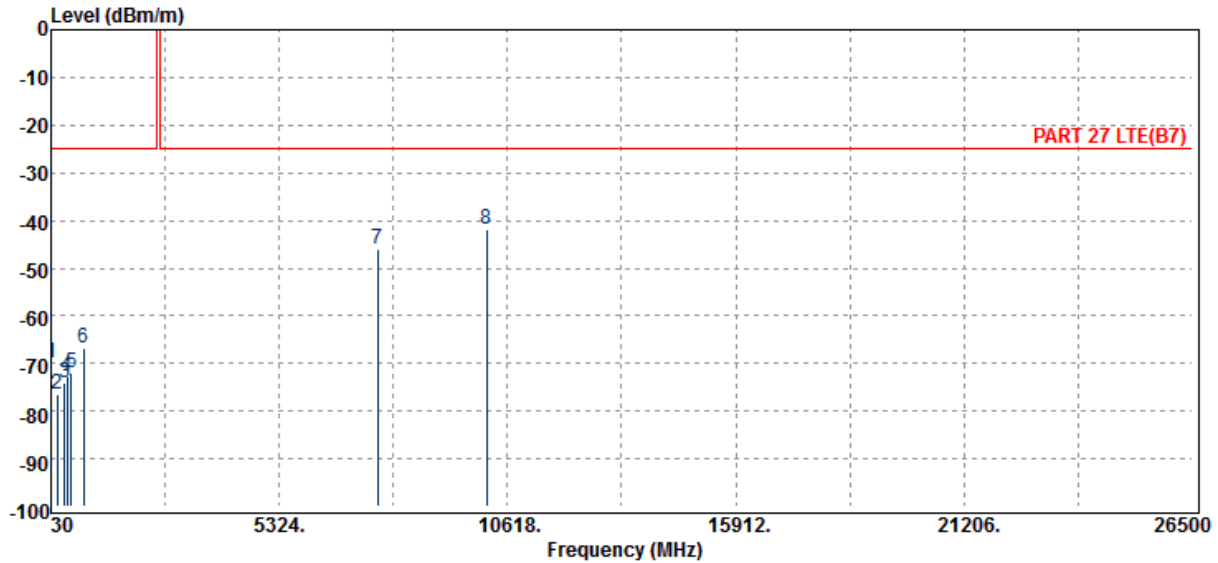
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ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Test Date	:2015-06-11
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2535 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	S	-69.73	-57.77	-11.17	-0.80	-25.00	-44.73
172.59	S	-76.62	-77.02	1.89	-1.49	-25.00	-51.62
343.31	S	-73.96	-77.91	5.89	-1.94	-25.00	-48.96
405.39	S	-72.67	-76.47	5.74	-1.94	-25.00	-47.67
493.66	S	-71.91	-75.51	5.86	-2.26	-25.00	-46.91
791.45	S	-66.78	-69.52	5.57	-2.82	-25.00	-41.78
7605.00	H	-45.93	-47.96	11.79	-9.75	-25.00	-20.93
10140.00	H	-42.03	-43.37	12.63	-11.30	-25.00	-17.03

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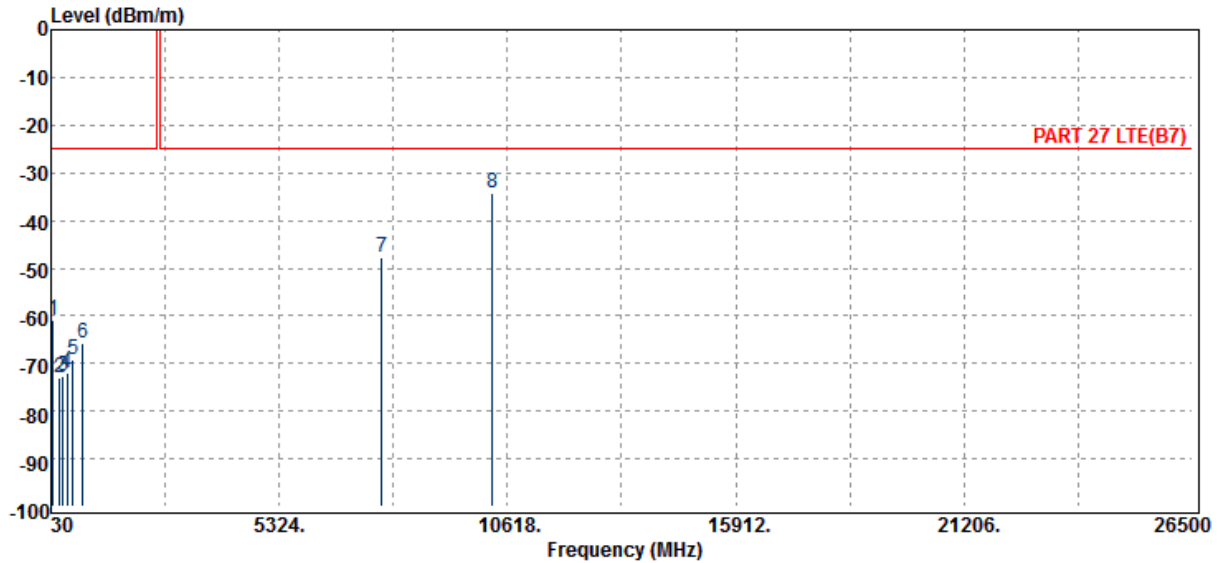
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ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Test Date	:2015-06-11
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
76.56	S	-60.74	-58.09	-1.62	-1.04	-25.00	-35.74
235.64	S	-72.98	-76.83	5.45	-1.59	-25.00	-47.98
298.69	S	-72.71	-76.68	5.75	-1.78	-25.00	-47.71
400.54	S	-71.87	-75.69	5.77	-1.95	-25.00	-46.87
546.04	S	-69.22	-72.42	5.75	-2.55	-25.00	-44.22
764.29	S	-65.76	-68.50	5.48	-2.73	-25.00	-40.76
7702.50	H	-47.86	-49.85	11.87	-9.87	-25.00	-22.86
10270.00	H	-34.25	-35.36	12.65	-11.54	-25.00	-9.25

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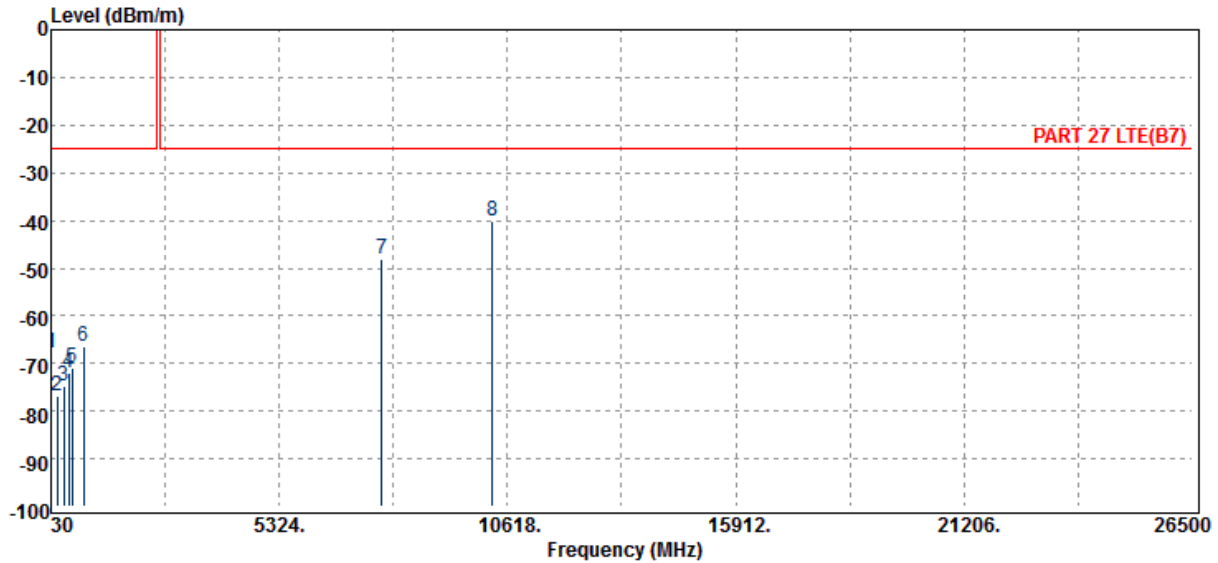
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ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Test Date	:2015-06-11
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-67.94	-55.20	-11.98	-0.76	-25.00	-42.94
173.56	S	-76.99	-77.55	2.05	-1.49	-25.00	-51.99
333.61	S	-74.89	-78.85	5.87	-1.91	-25.00	-49.89
440.31	S	-71.92	-75.42	5.55	-2.04	-25.00	-46.92
517.91	S	-70.90	-74.34	5.85	-2.40	-25.00	-45.90
786.60	S	-66.57	-69.31	5.55	-2.80	-25.00	-41.57
7702.50	H	-48.20	-50.19	11.87	-9.87	-25.00	-23.20
10270.00	H	-40.22	-41.33	12.65	-11.54	-25.00	-15.22

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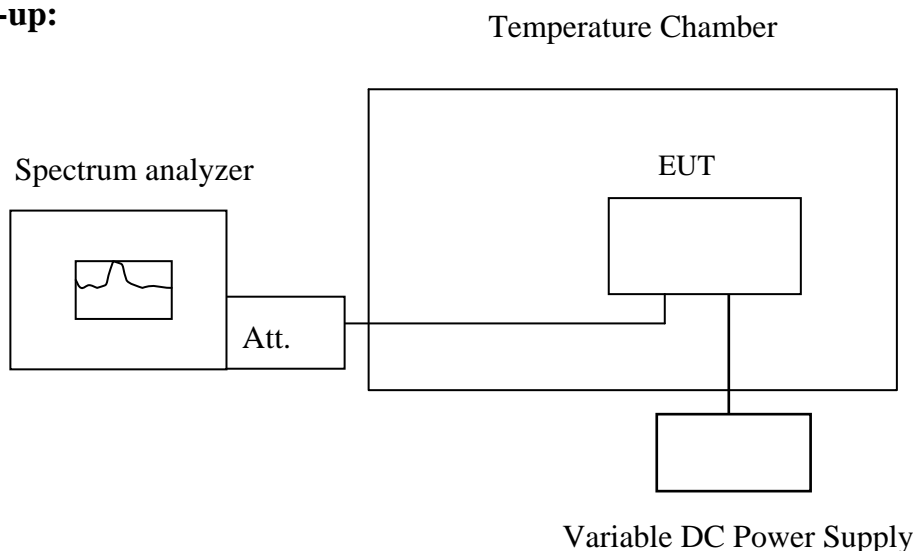
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## 11. FREQUENCY STABILITY MEASUREMENT

### 12.1. Standard Applicable:

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

### 12.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

### 12.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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**12.4. Measurement Equipment Used:**

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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**12.5. Measurement Result:**

**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	836.599998	4	2091
3.8	20	836.599994	0	2091
3.2	20	836.599993	-1	2091
2.9 (End point)	20	836.599998	4	2091

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836.599996	2	2091
3.8	40	836.599995	1	2091
3.8	30	836.599994	0	2091
3.8	20	836.599994	0	2091
3.8	10	836.600002	8	2091
3.8	0	836.599999	5	2091
3.8	-10	836.600000	6	2091
3.8	-20	836.599996	2	2091
3.8	-30	836.599997	3	2091

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	1879.999997	-2	4700
3.8	20	1879.999999	0	4700
3.2	20	1879.999998	-1	4700
2.9 (End point)	20	1879.999999	0	4700

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1879.999997	-2	4700
3.8	40	1879.999999	0	4700
3.8	30	1879.999998	-1	4700
3.8	20	1879.999999	0	4700
3.8	10	1880.000002	3	4700
3.8	0	1879.999999	0	4700
3.8	-10	1879.999997	-2	4700
3.8	-20	1879.999998	-1	4700
3.8	-30	1880.000000	1	4700

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	1879.999998	-1	4700
3.8	20	1879.999999	0	4700
3.2	20	1880.000001	2	4700
2.9 (End point)	20	1880.000002	3	4700

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1879.999999	0	4700
3.8	40	1880.000001	2	4700
3.8	30	1880.000000	1	4700
3.8	20	1879.999999	0	4700
3.8	10	1880.000002	3	4700
3.8	0	1879.999999	0	4700
3.8	-10	1879.999997	-2	4700
3.8	-20	1879.999999	0	4700
3.8	-30	1879.999999	0	4700

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	836.599999	-3	2091
3.8	20	836.600002	0	2091
3.2	20	836.599999	-3	2091
2.9 (End point)	20	836.599999	-3	2091

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836.599998	-4	2091
3.8	40	836.599999	-3	2091
3.8	30	836.600003	1	2091
3.8	20	836.600002	0	2091
3.8	10	836.599996	-6	2091
3.8	0	836.599998	-4	2091
3.8	-10	836.599998	-4	2091
3.8	-20	836.599999	-3	2091
3.8	-30	836.600000	-2	2091

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	836.500004	1.30	2091	
3.8	25	836.500003	0.00	2091	
3.23	25	836.500004	0.70	2091	
3.22 (End Point)	25	836.500005	1.90	2091	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	836.500006	2.60	2091	
3.8	-20	836.500006	3.10	2091	
3.8	-10	836.500006	2.30	2091	
3.8	0	836.500004	0.90	2091	
3.8	10	836.500004	0.70	2091	
3.8	20	836.500003	0.00	2091	
3.8	30	836.500004	0.60	2091	
3.8	40	836.500005	1.40	2091	
3.8	50	836.500005	1.90	2091	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	2535.000008	2.90	6338	
3.8	25	2535.000005	0.00	6338	
3.23	25	2535.000006	1.00	6338	
3.15 (End Point)	25	2535.000009	3.50	6338	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	2535.000010	4.20	6338	
3.8	-20	2535.000009	3.00	6338	
3.8	-10	2535.000008	2.60	6338	
3.8	0	2535.000007	1.80	6338	
3.8	10	2535.000006	0.40	6338	
3.8	20	2535.000006	0.00	6338	
3.8	30	2535.000004	-1.90	6338	
3.8	40	2535.000004	-1.40	6338	
3.8	50	2535.000005	-0.80	6338	

**Note: The battery is rated 3.8V dc.**

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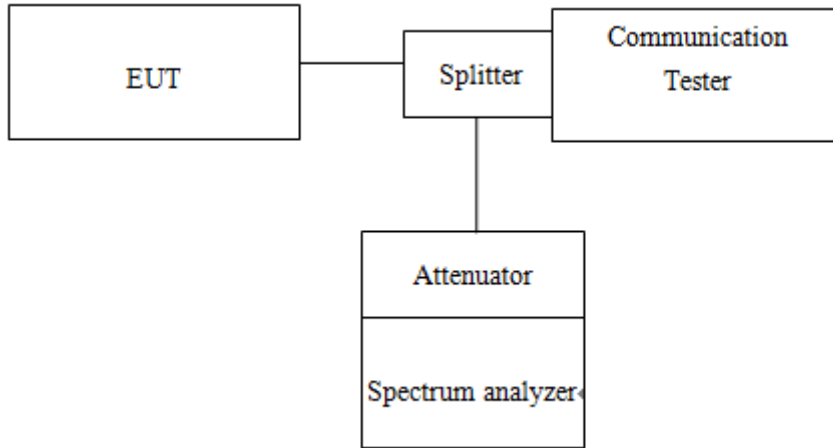
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### 3. PEAK TO AVERAGE RATIO

#### 13.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

#### 13.2. Test SET-UP



#### 13.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

#### 13.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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### 13.5. Measurement Result

#### Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
824.20	128	10.43	9.70	12.00
836.60	190	9.72	10.56	12.52
848.80	251	9.72	10.32	12.23

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
1850.20	512	9.77	10.12	12.90
1880.00	661	9.55	9.53	12.28
1909.80	810	9.98	8.69	12.32

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	2.76	3.78	3.70
1880.00	9400	2.87	3.84	3.88
1909.80	9538	2.70	3.77	3.73

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	2.99	3.63	3.81
836.60	4183	3.00	3.59	3.83
846.60	4233	2.99	4.09	3.96

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	6.56	13	825.5	20415	6.30	13
836.5	20525	6.90	13	836.5	20525	6.71	13
848.3	20643	6.66	13	847.5	20635	6.38	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	6.50	13	8229.0	20450	6.43	13
836.5	20525	6.77	13	836.5	20525	6.67	13
846.5	20625	6.54	13	844.0	20600	6.52	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2502.5	23755	6.43	13	2505.0	20800	6.46	13
2535.0	21100	6.44	13	2535.0	21100	6.35	13
2567.5	21425	6.06	13	2565.0	21400	6.07	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2507.5	20825	6.73	13	2510.0	20850	7.14	13
2535.0	21100	6.65	13	2535.0	21100	6.97	13
2562.5	21375	6.52	13	2560.0	21350	6.96	13

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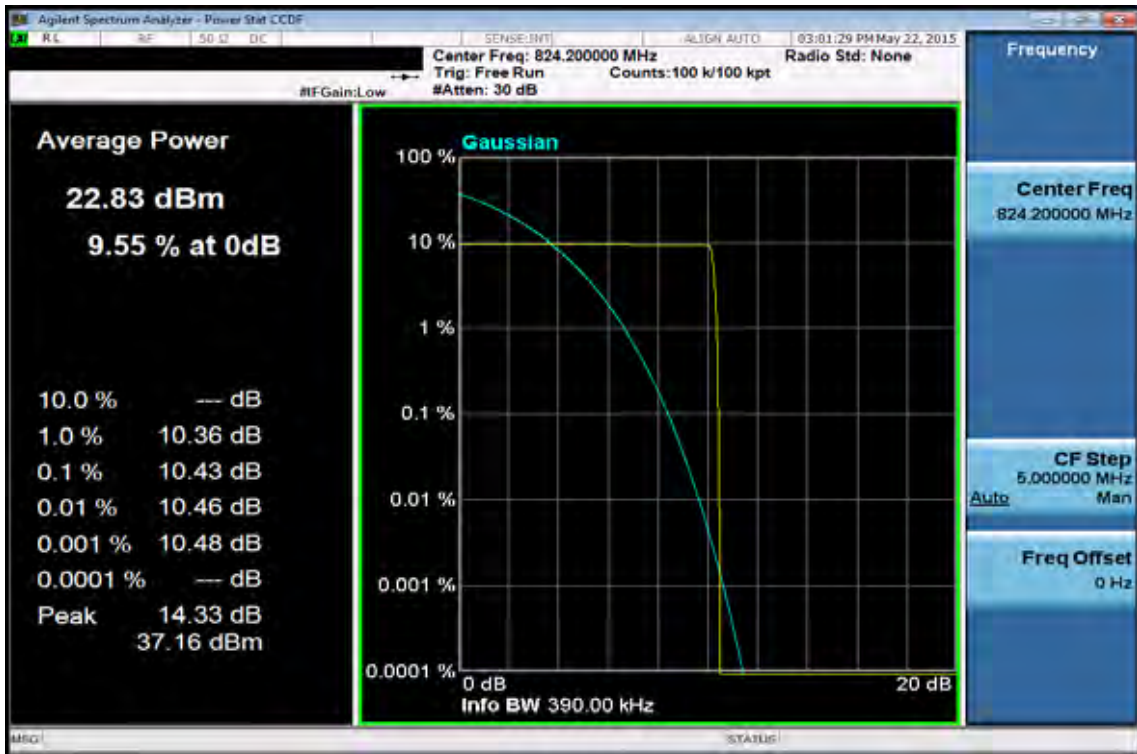
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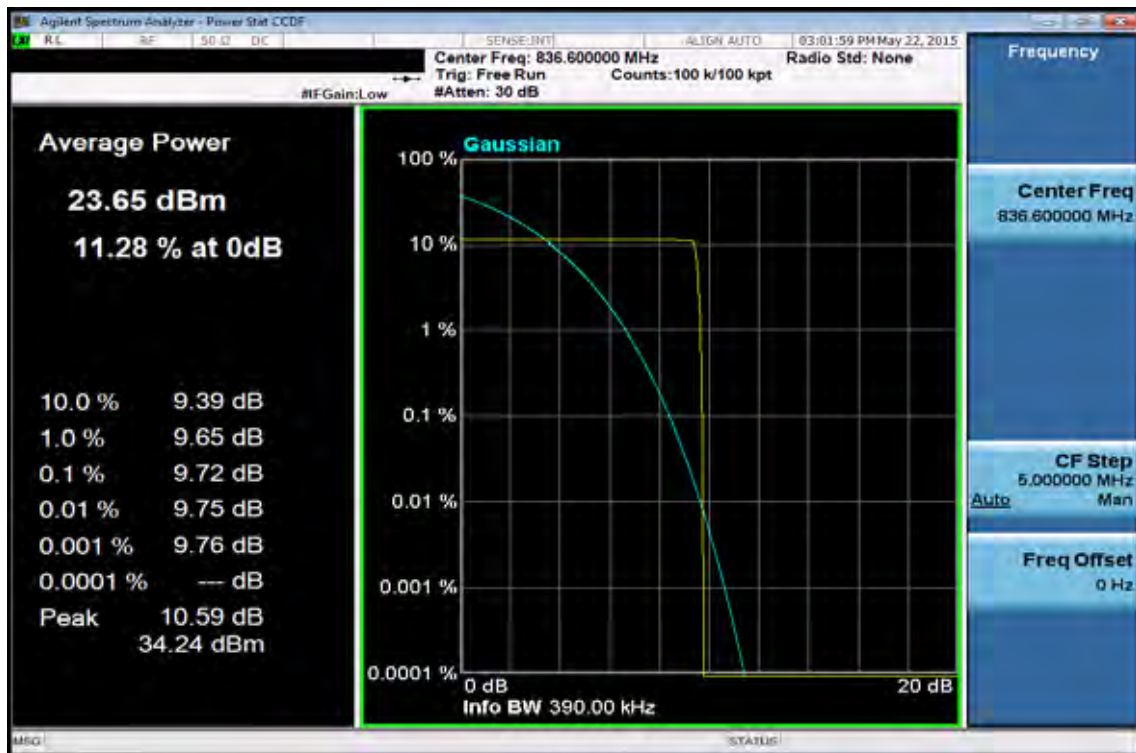
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Measurement Results:

GSM 850 Channel Low



GSM 850 Channel Mid



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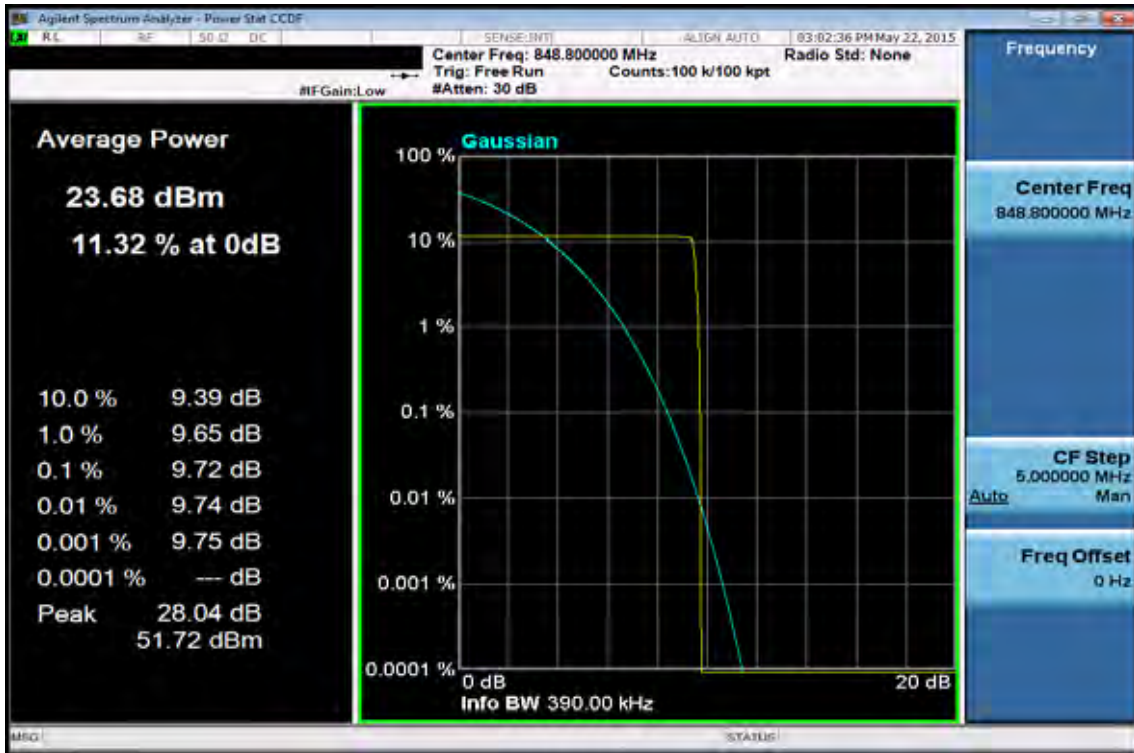
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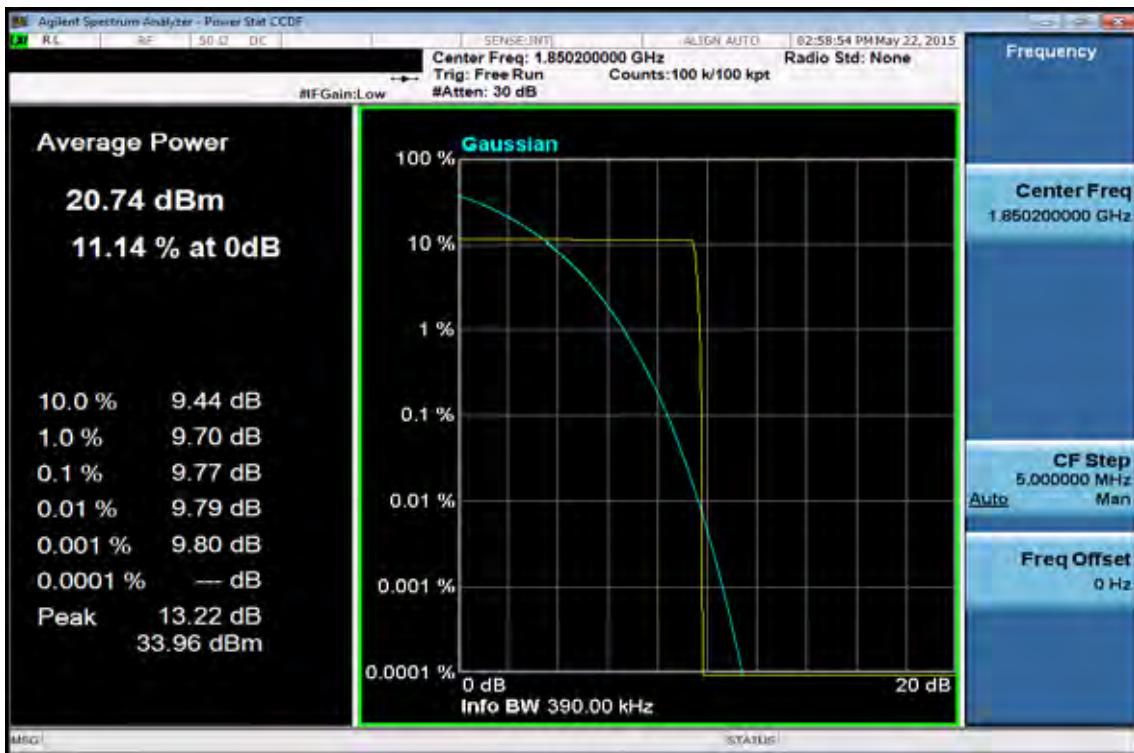
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### GSM 850 Channel High



### GSM 1900 Channel Low



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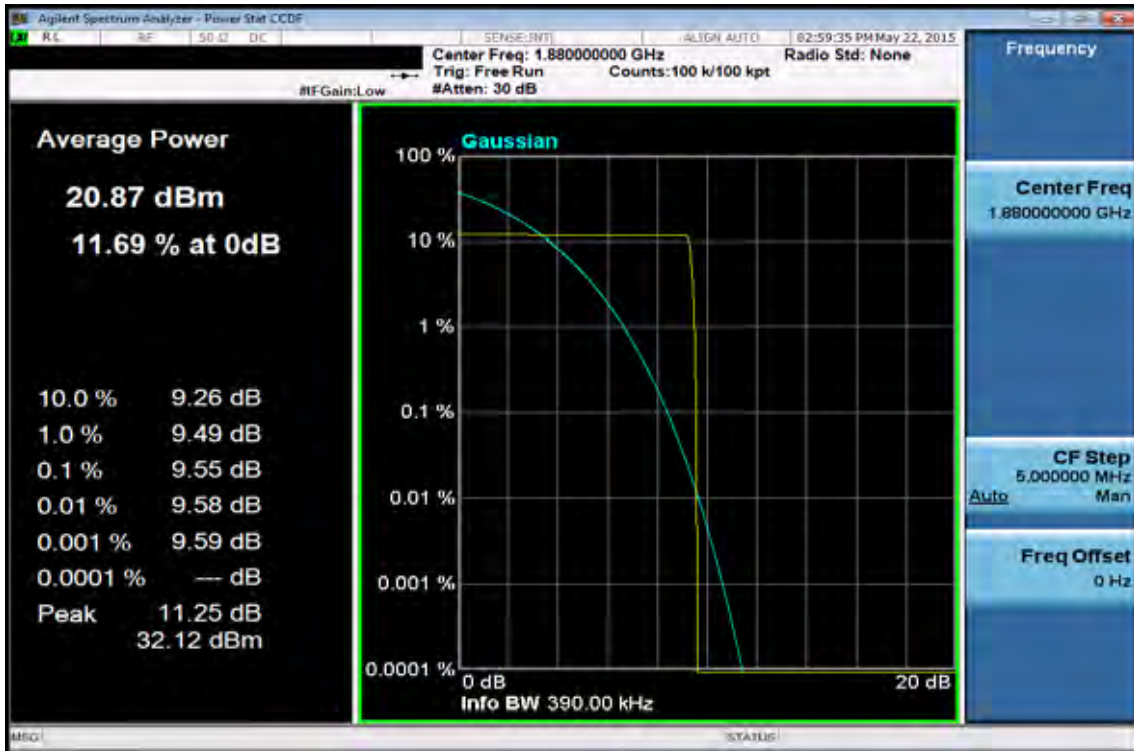
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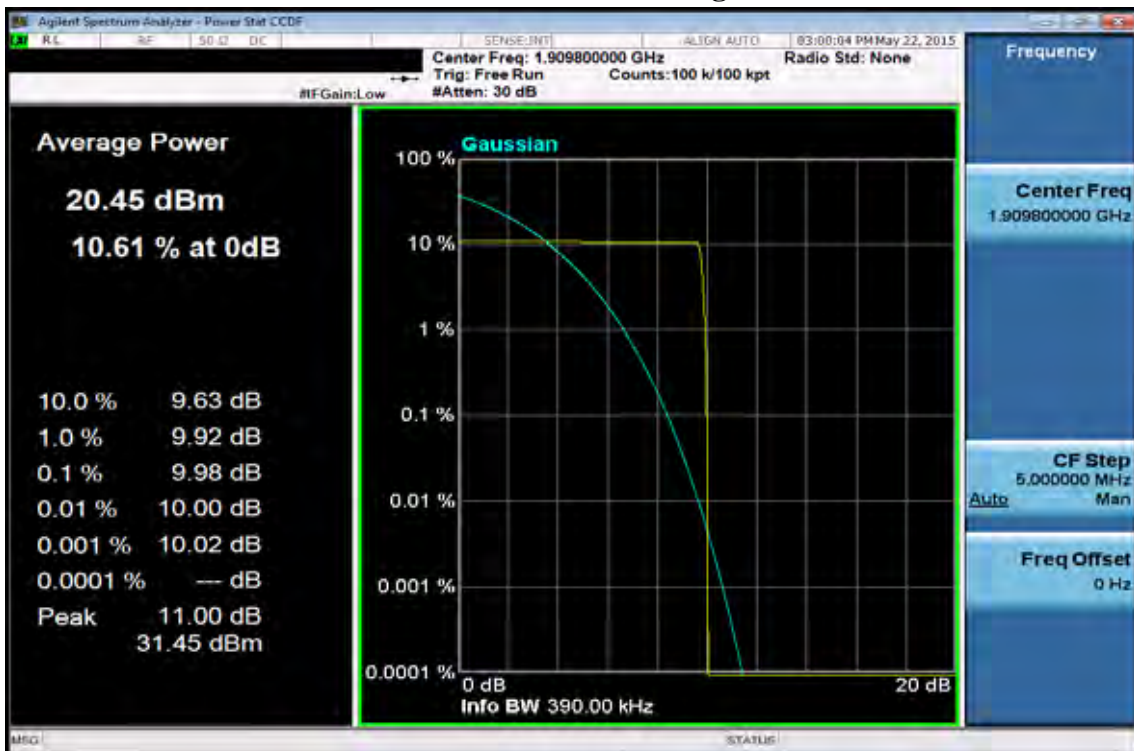
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GSM 1900 Channel Mid



GSM 1900 Channel High



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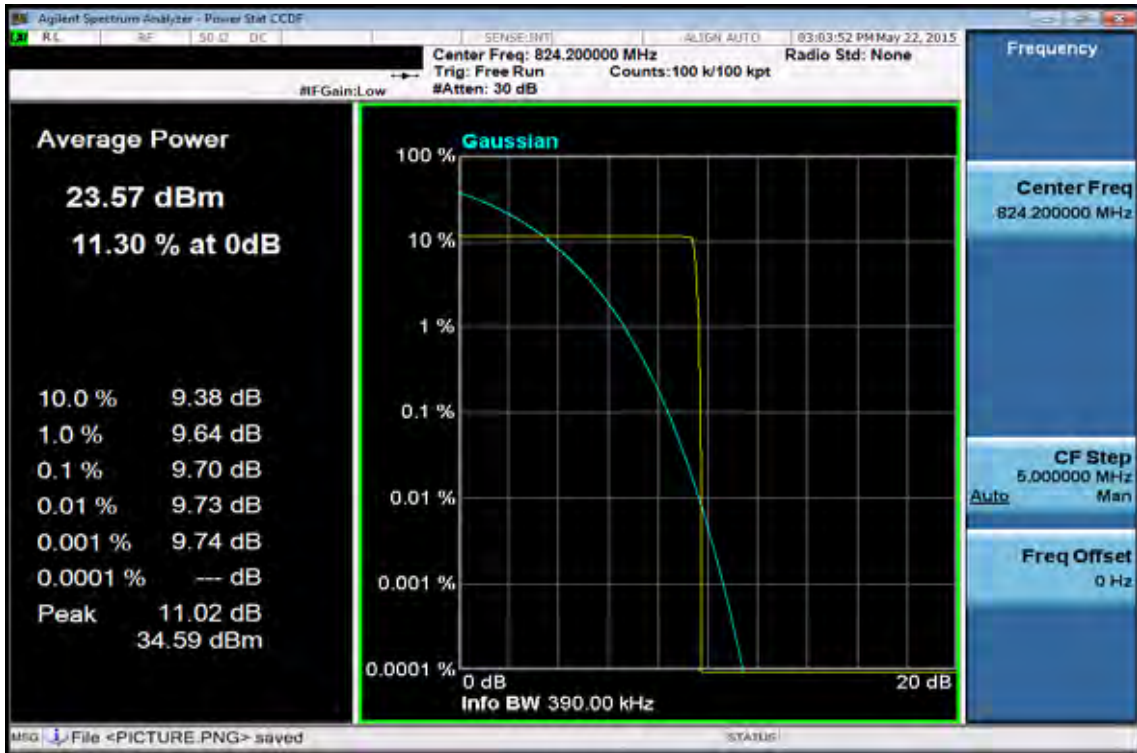
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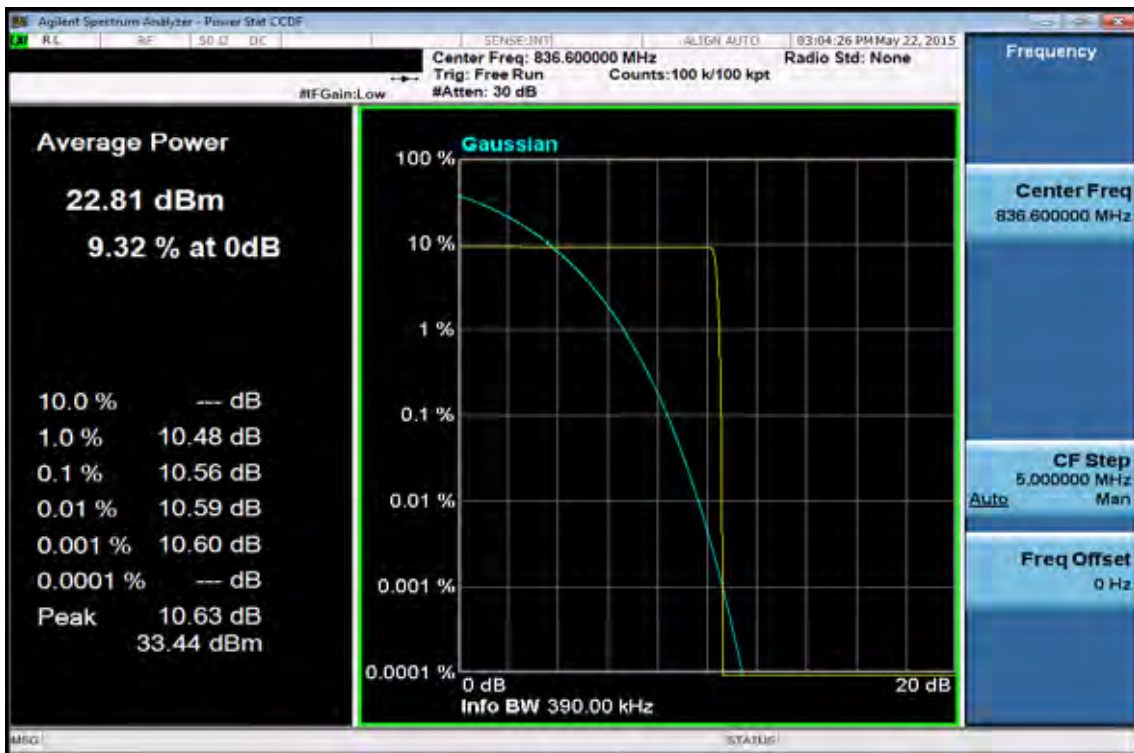
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GPRS 850 Channel Low



GPRS 850 Channel Mid



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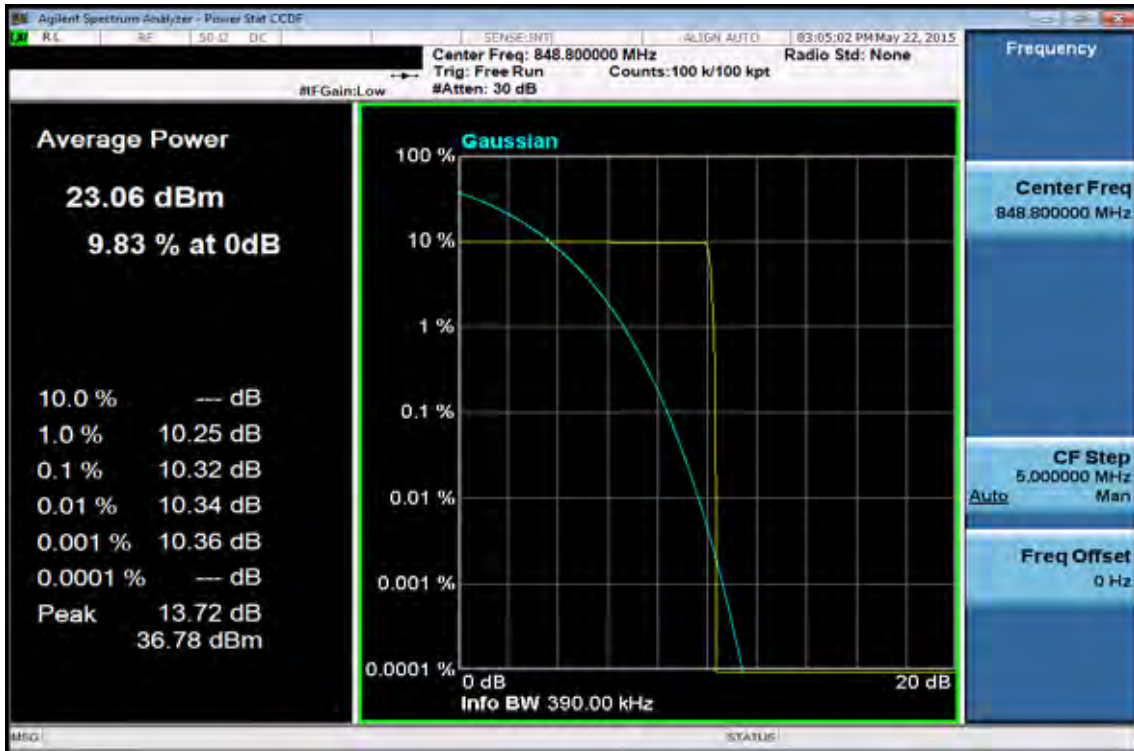
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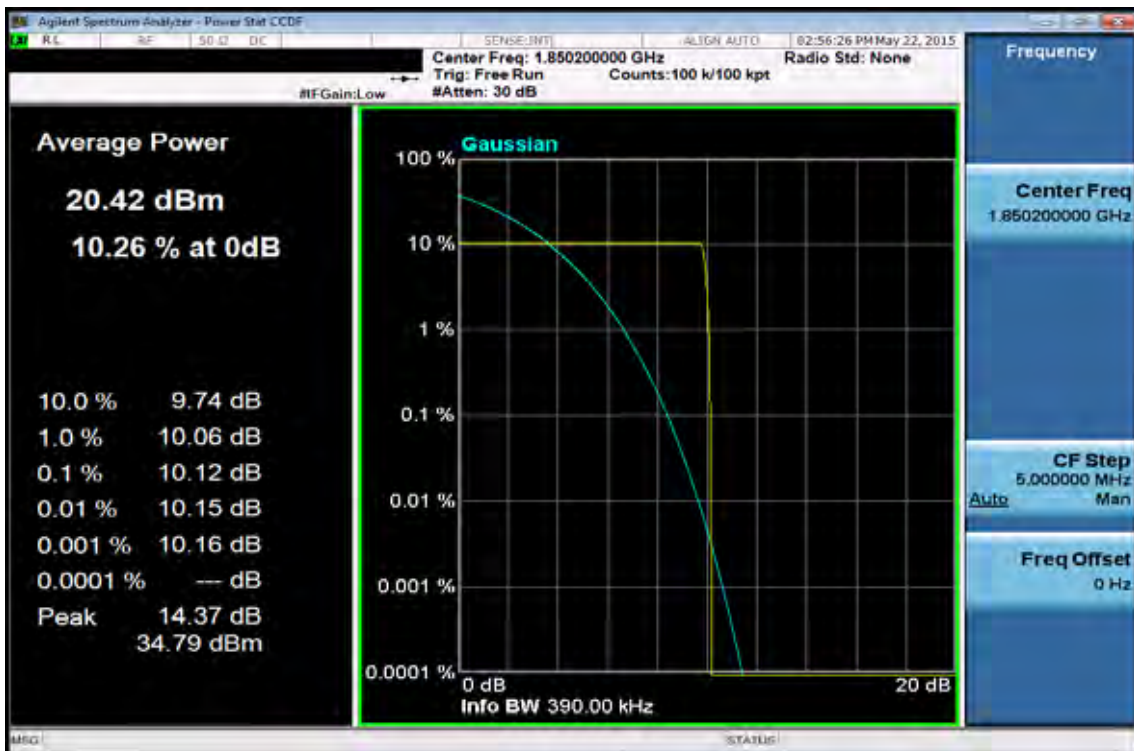
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**GPRS 850 Channel High**



**GPRS 1900 Channel Low**



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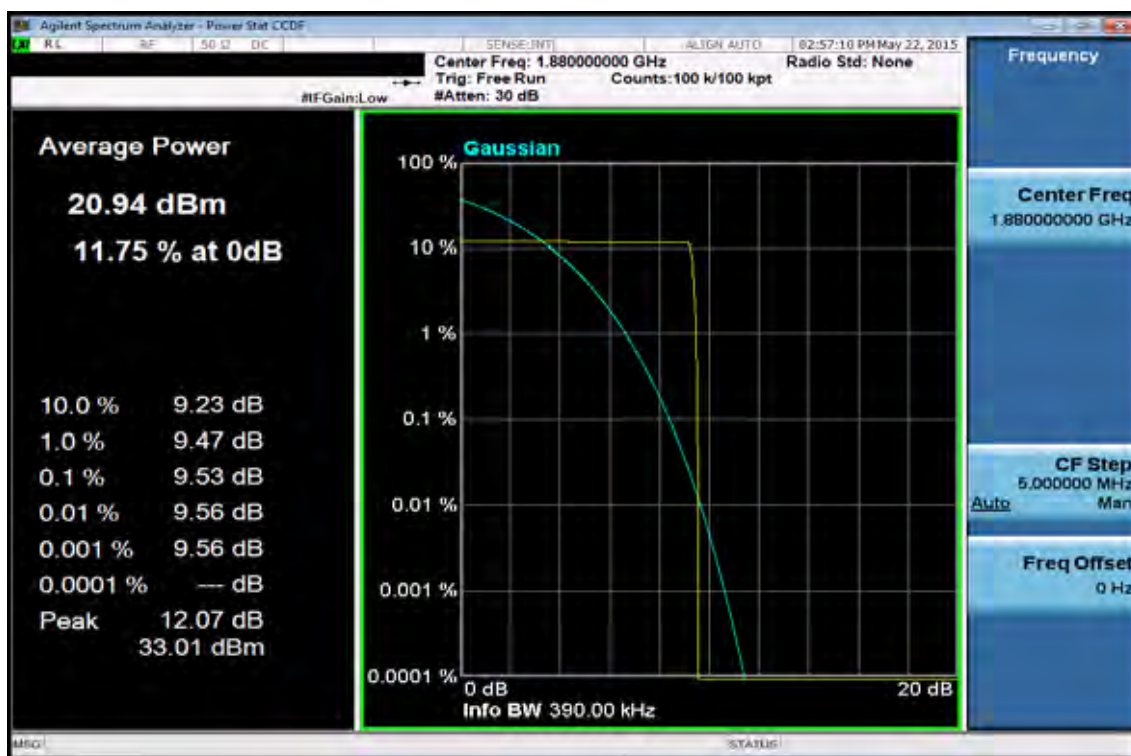
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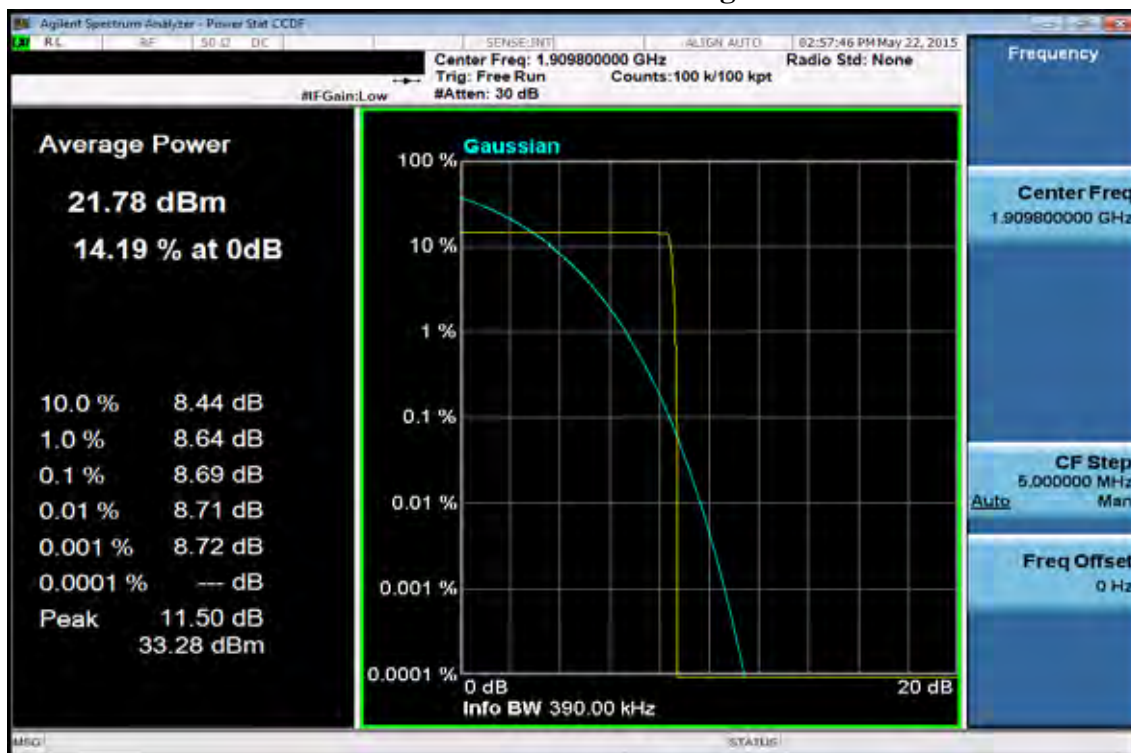
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### GPRS 1900 Channel Mid



### GPRS 1900 Channel High



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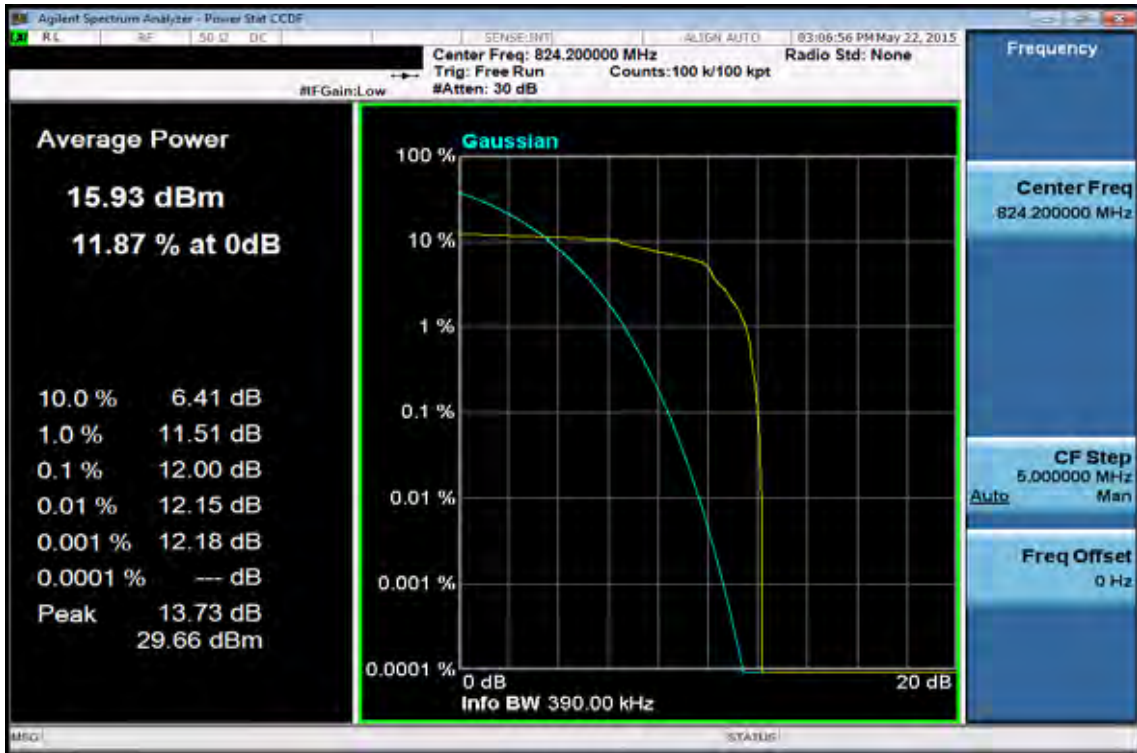
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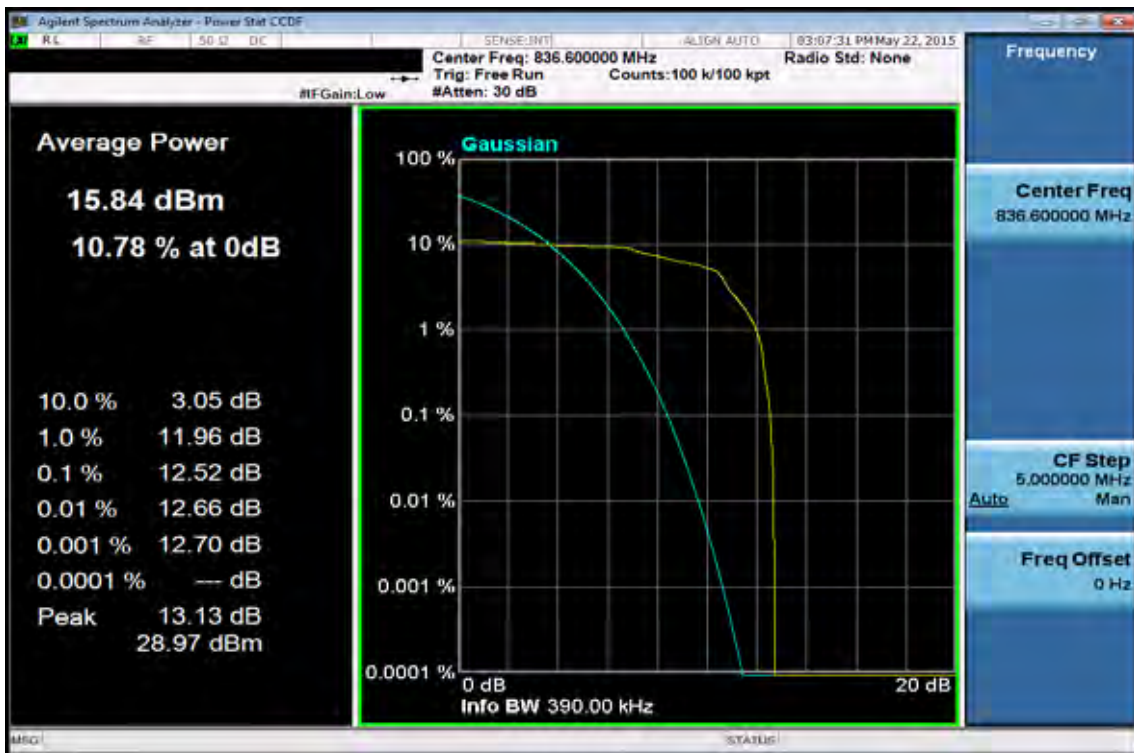
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**EDGE 850 Channel Low**



**EDGE 850 Channel Mid**



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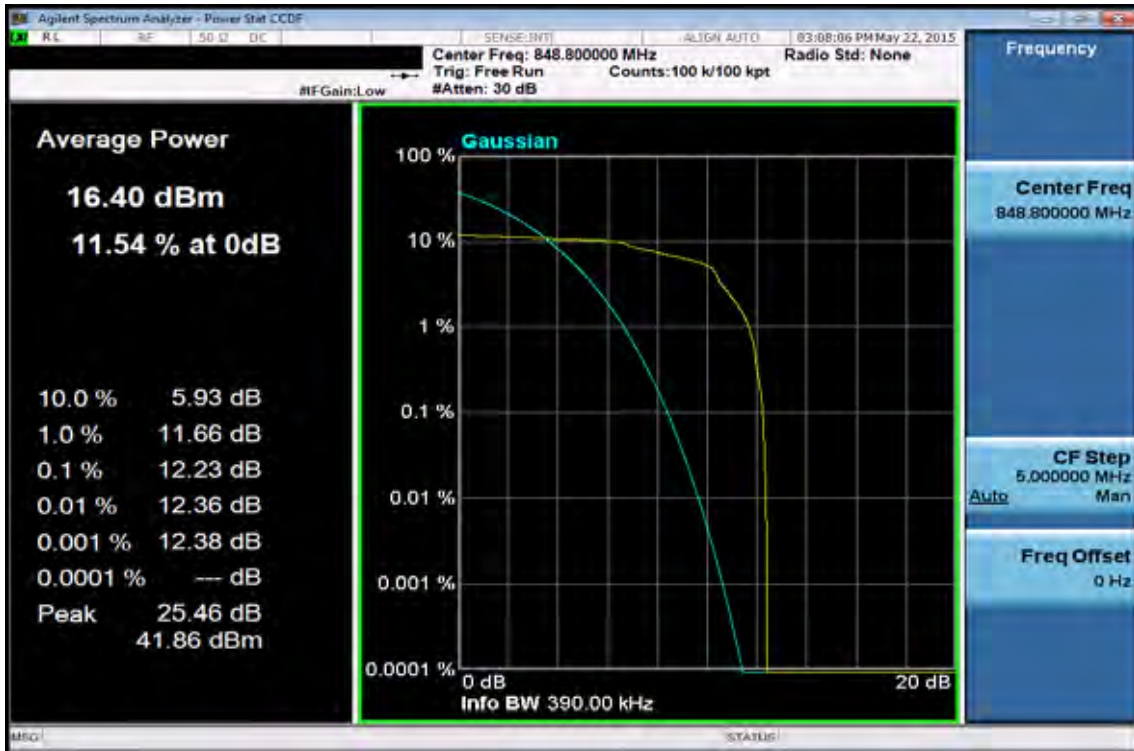
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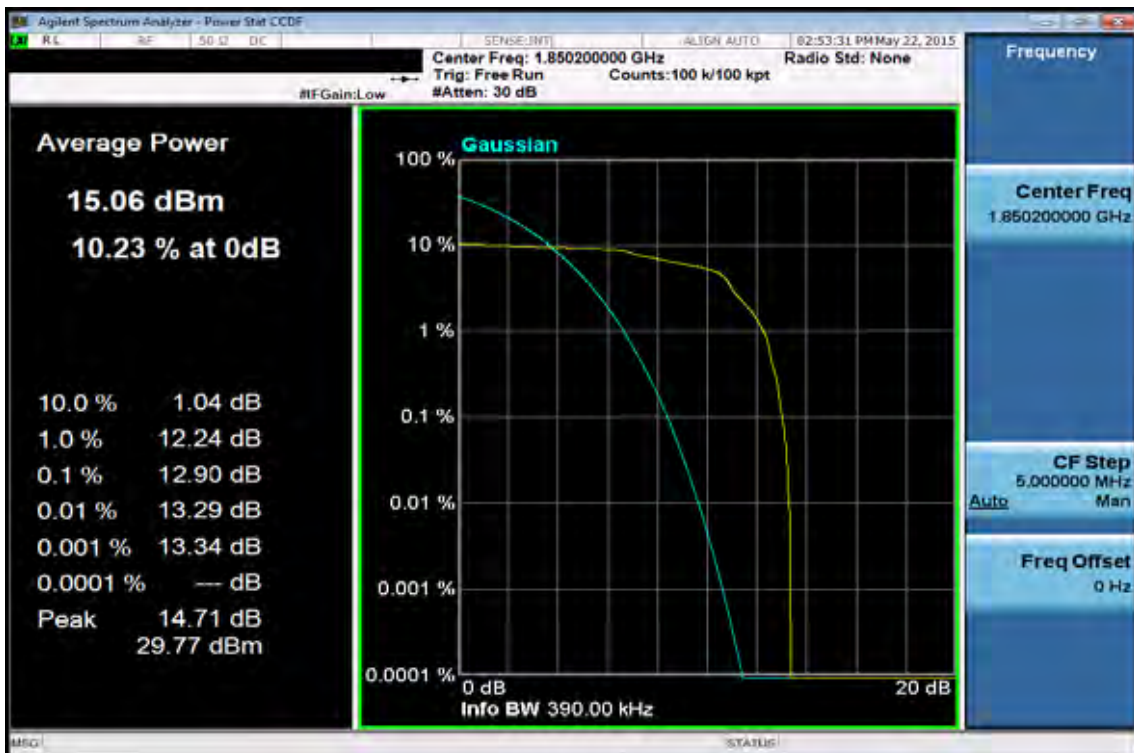
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### EDGE 850 Channel High



### EDGE 1900 Channel Low



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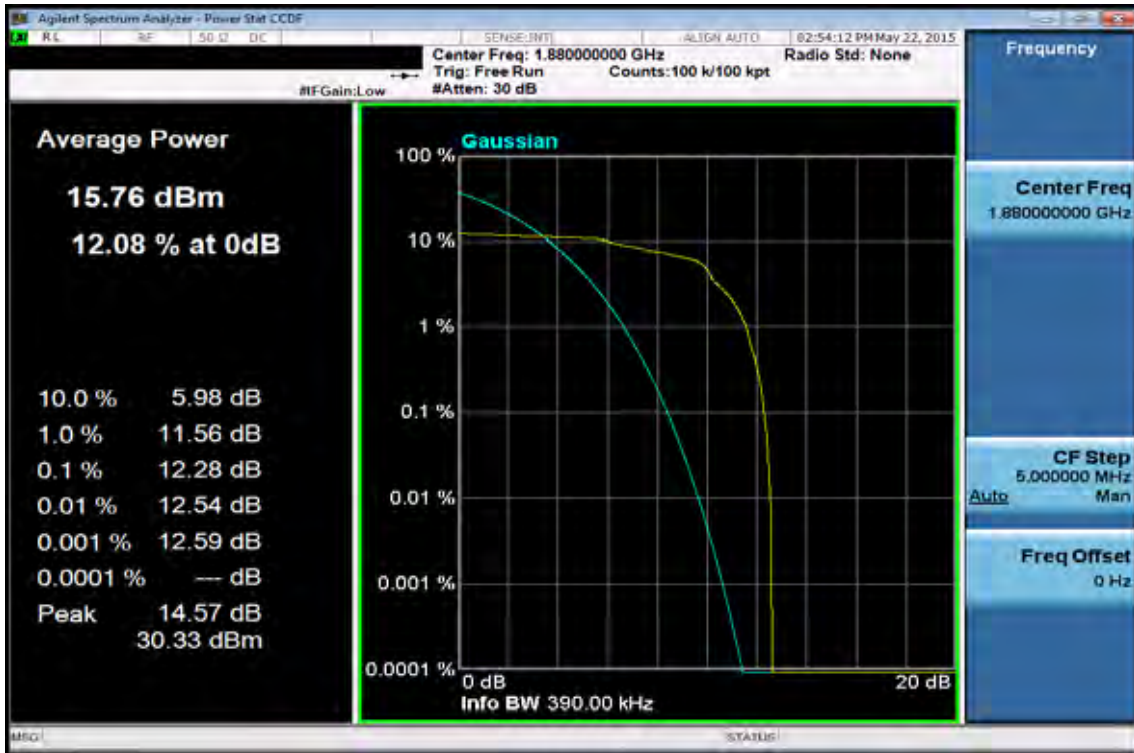
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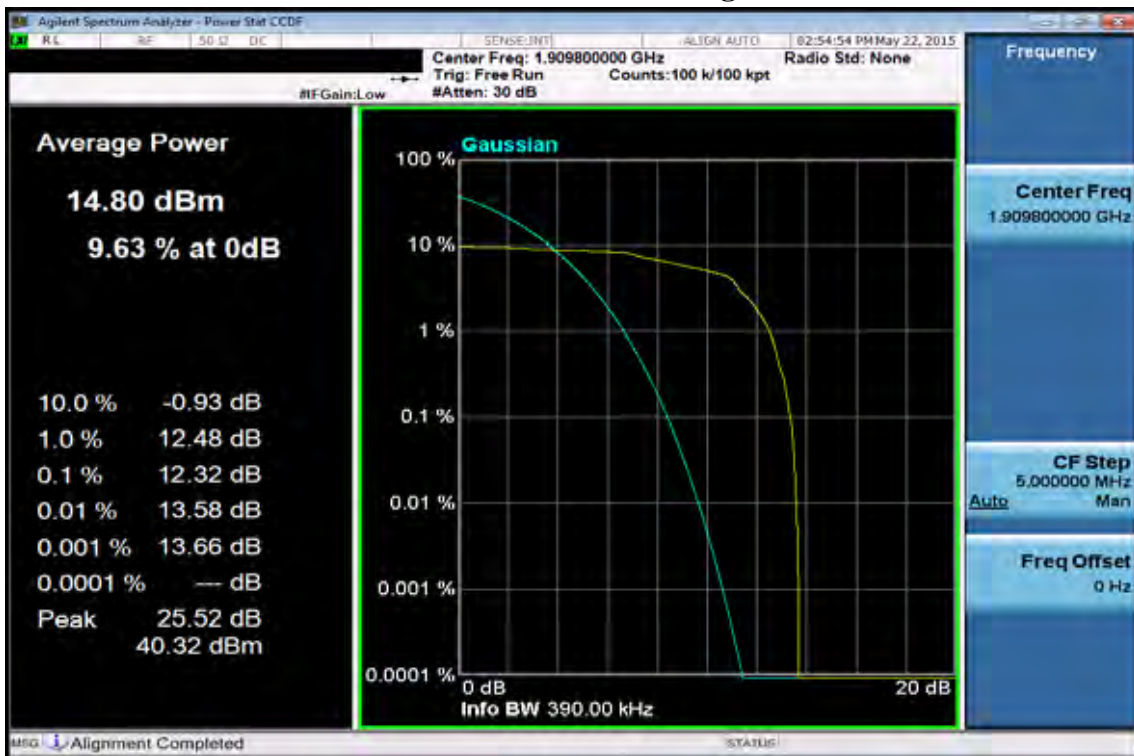
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**EDGE 1900 Channel Mid**



**EDGE 1900 Channel High**



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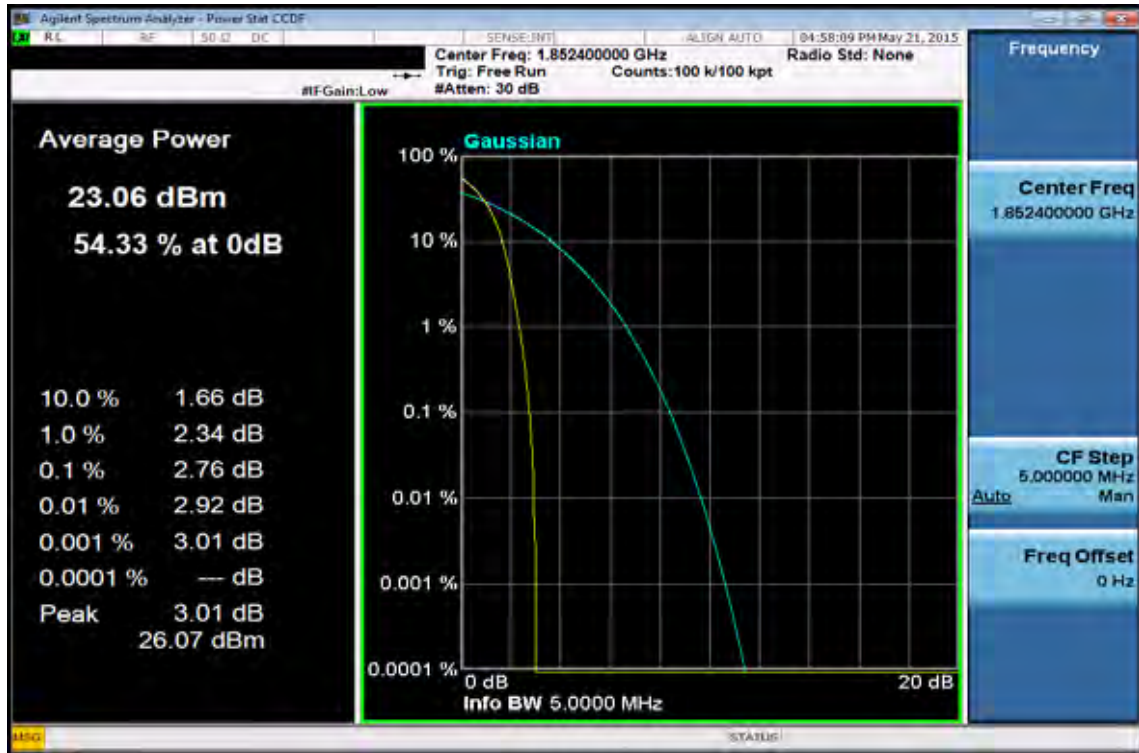
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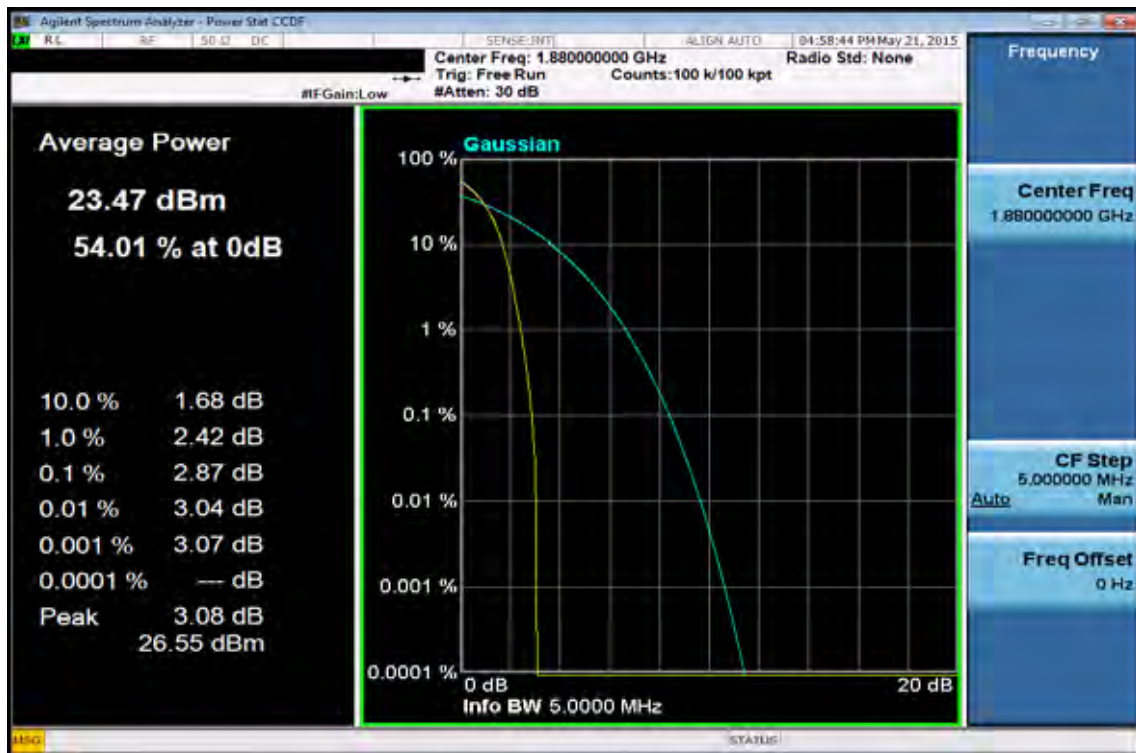
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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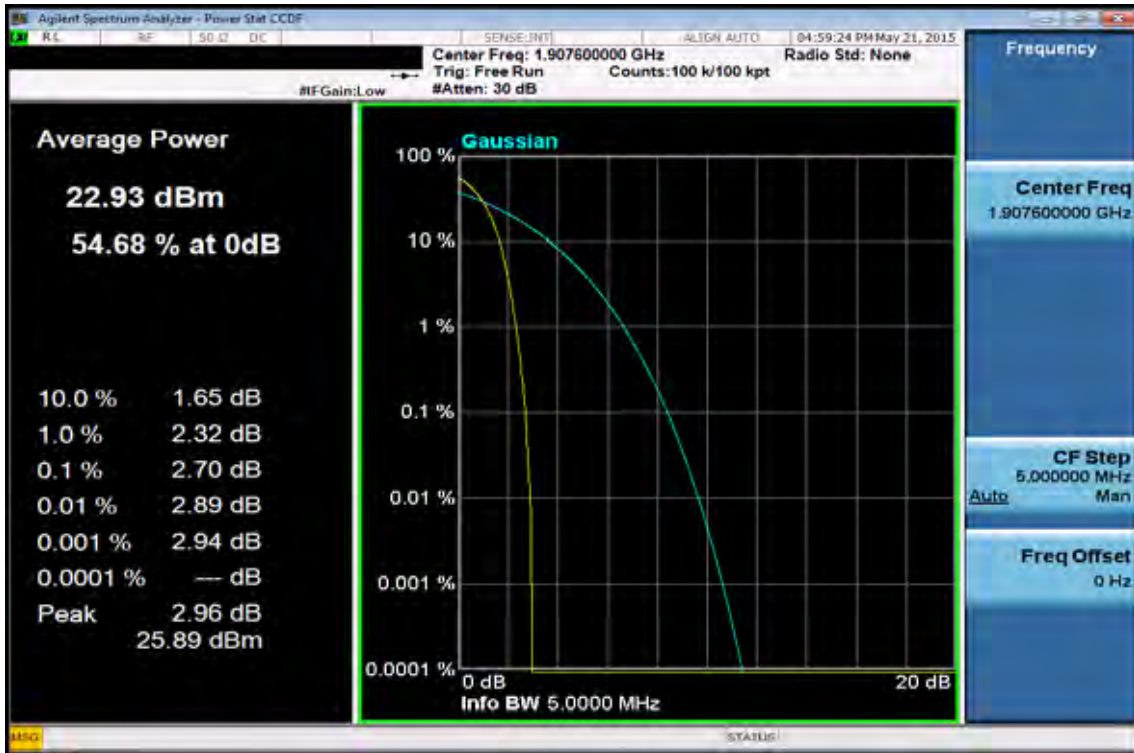
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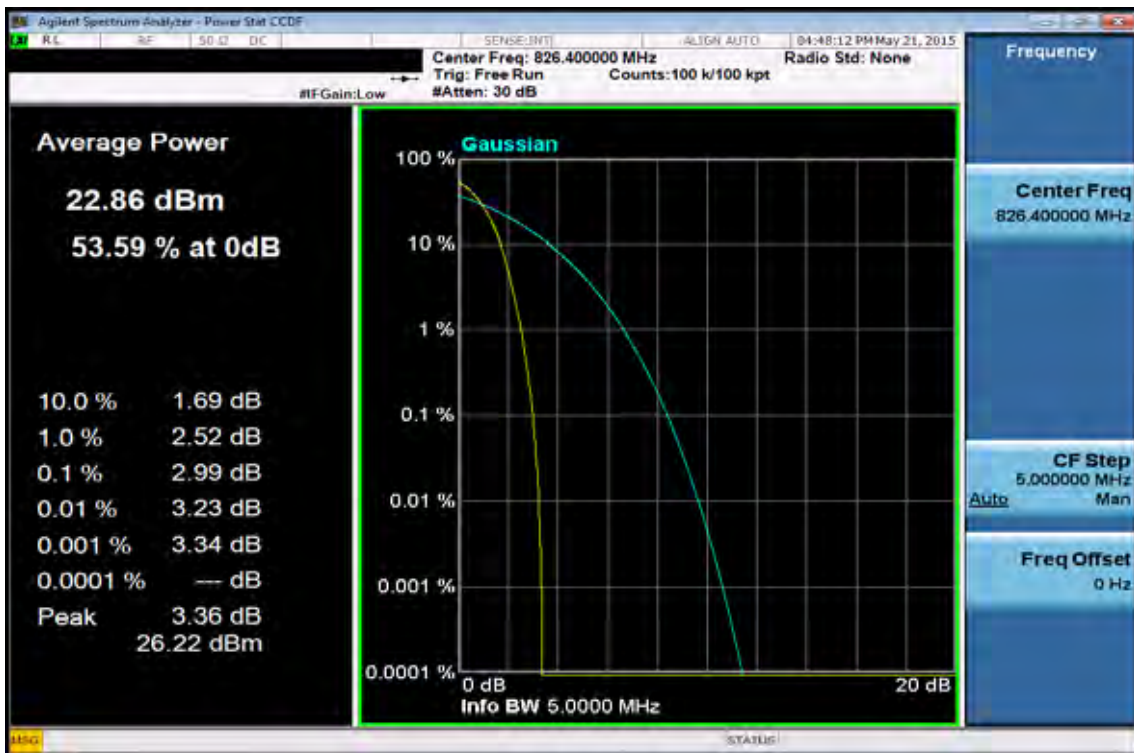
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WCDMA Band II Channel High



WCDMA Band V Channel Low



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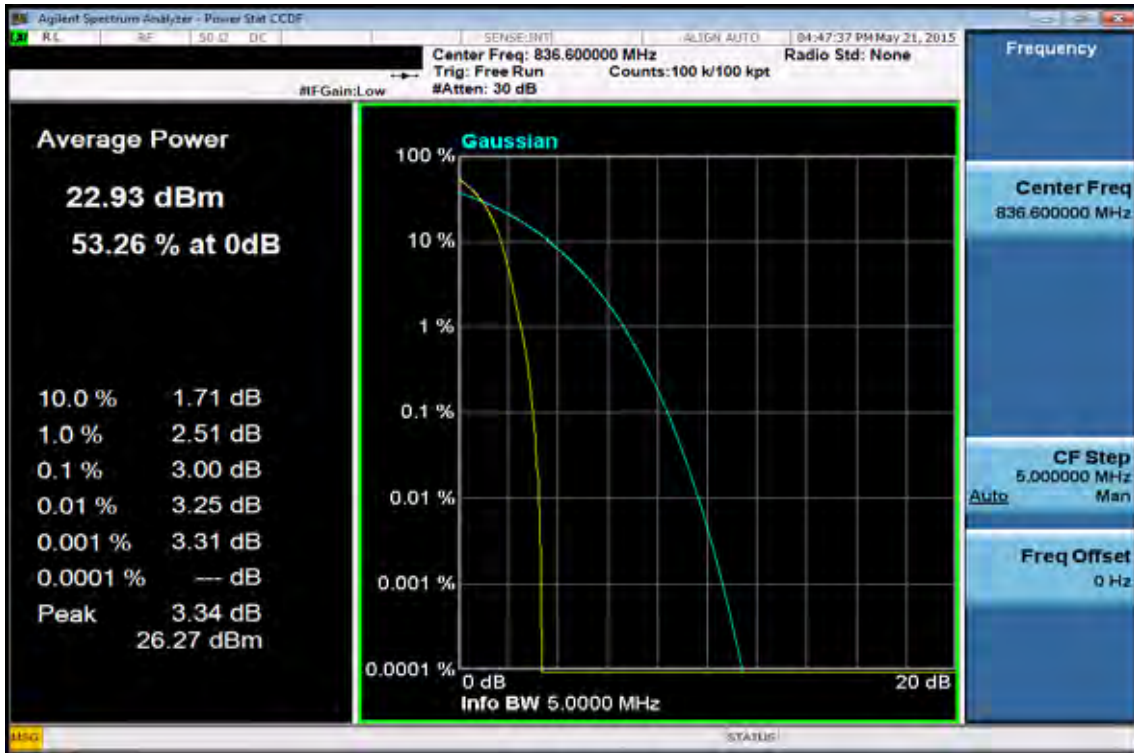
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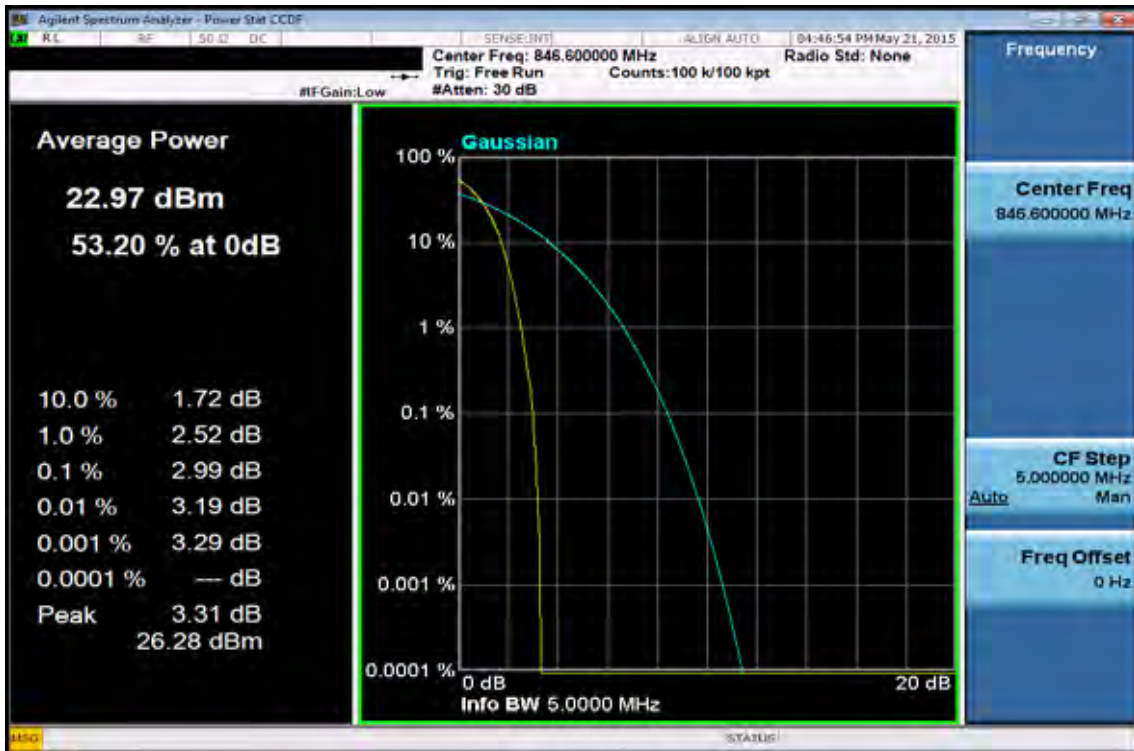
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WCDMA Band V Channel Mid



WCDMA Band V Channel High



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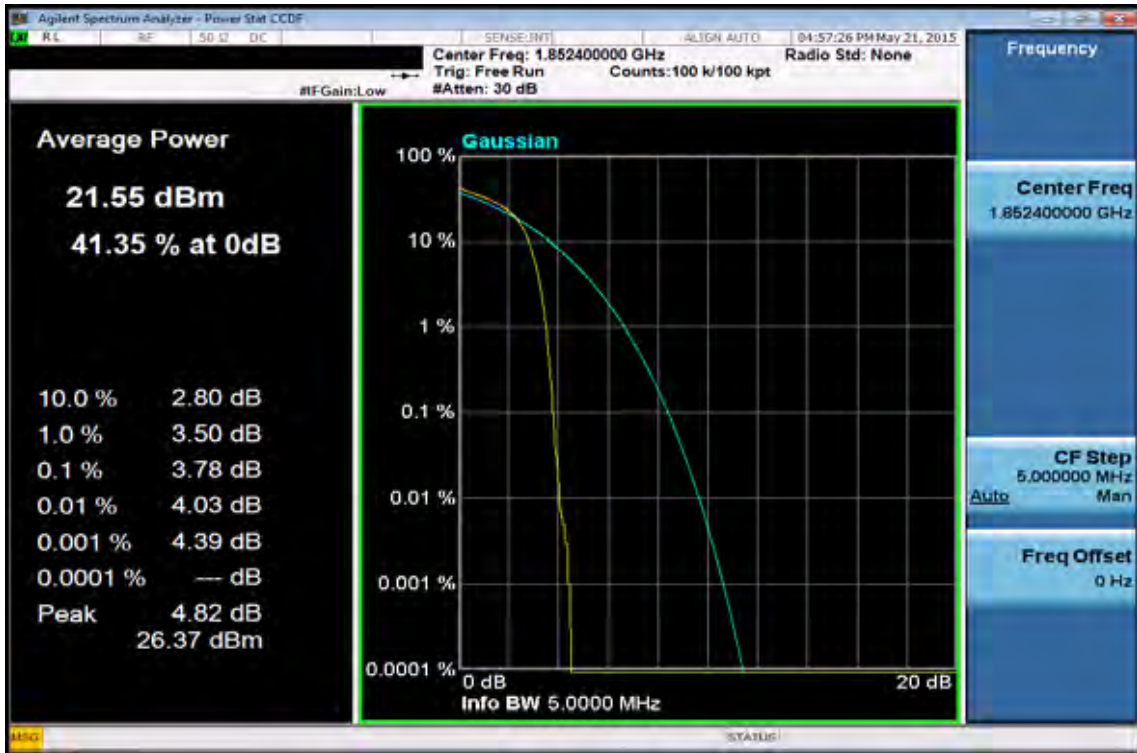
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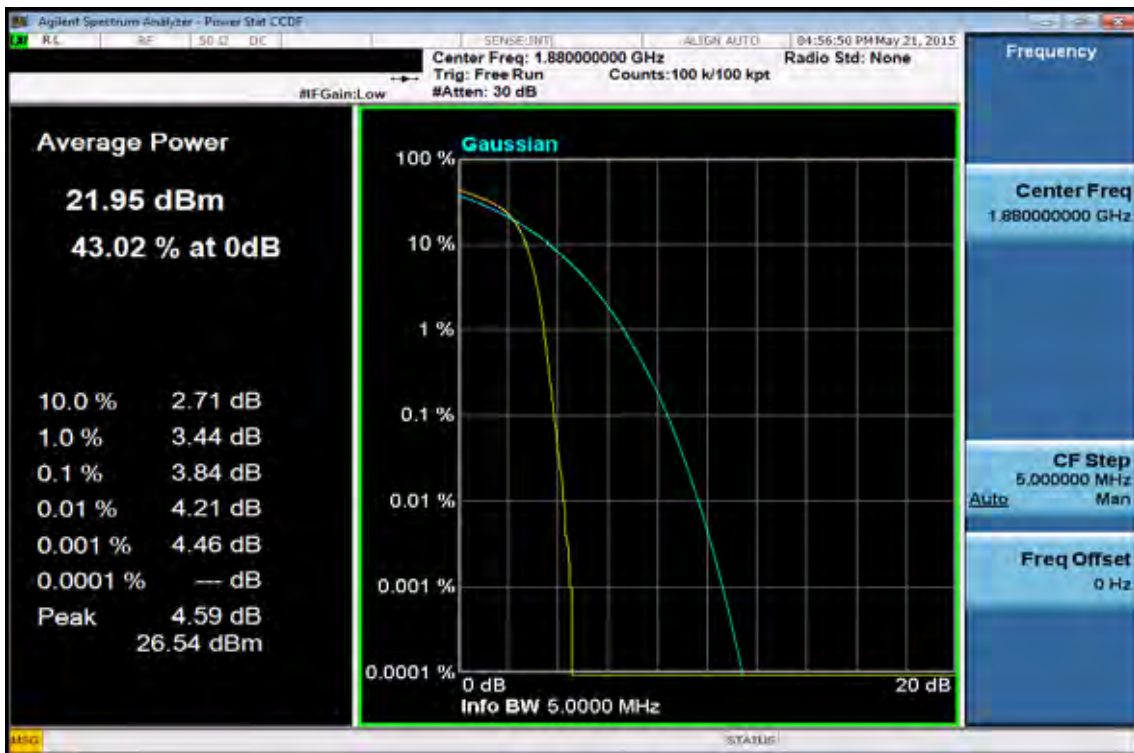
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HSDPA Band II Channel Low



HSDPA Band II Channel Mid



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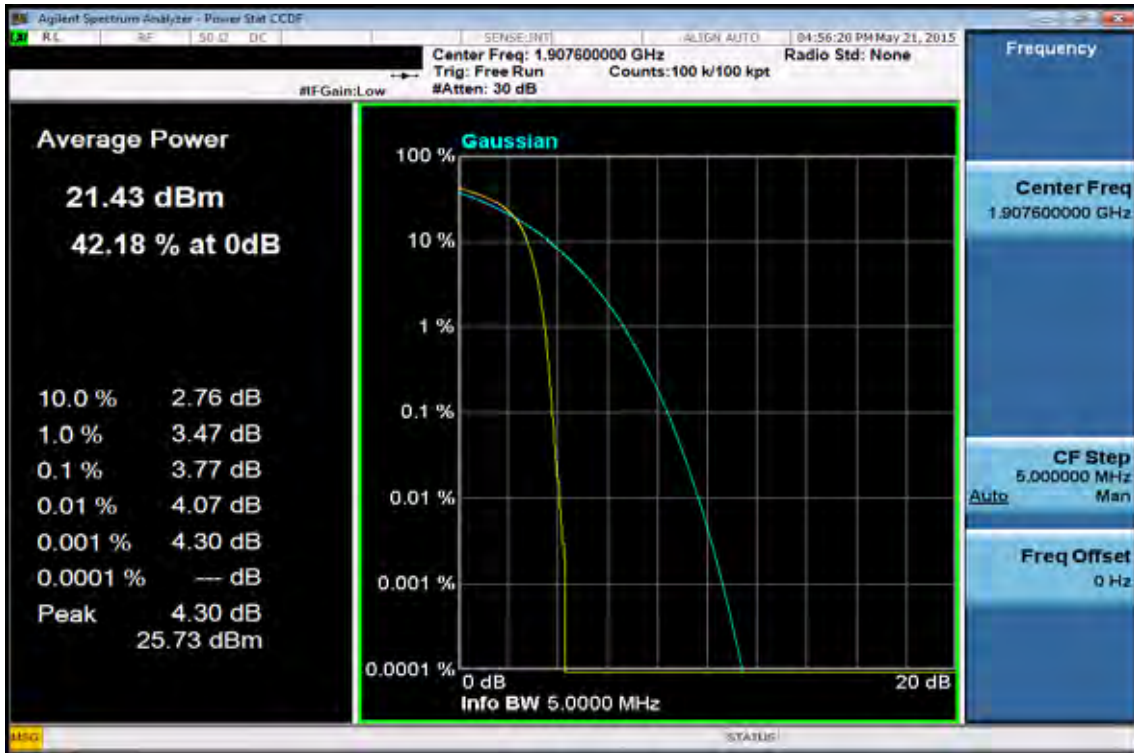
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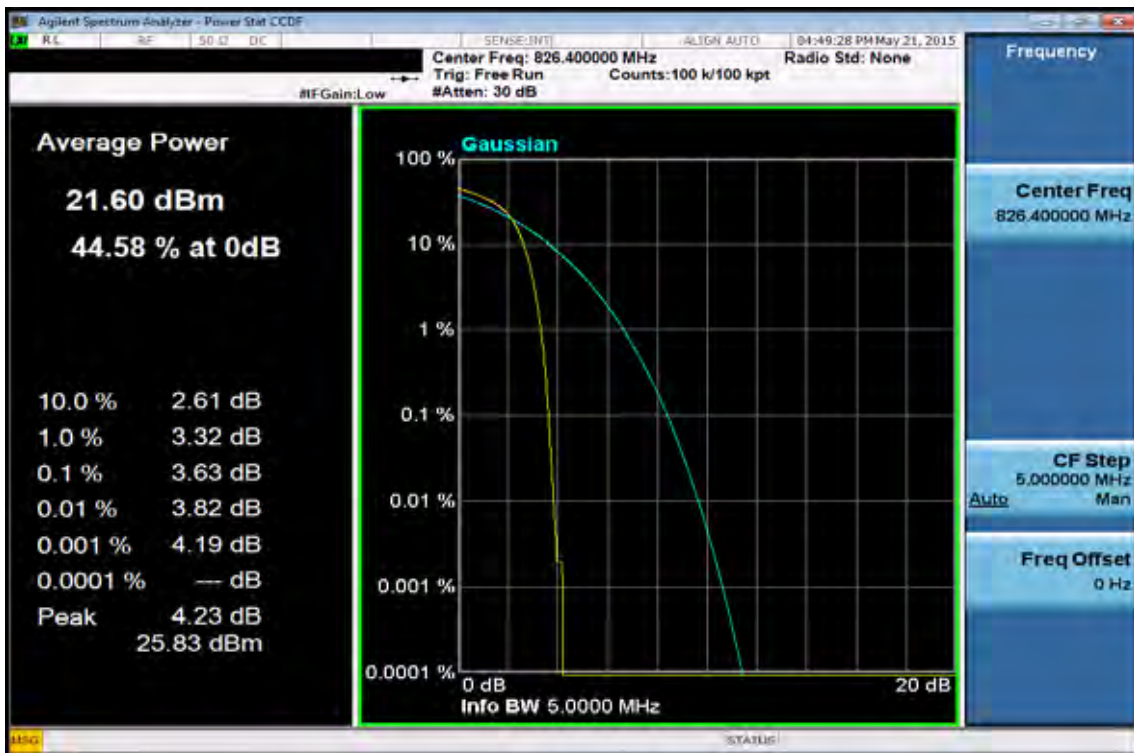
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### HSDPA Band II Channel High



### HSDPA Band V Channel Low



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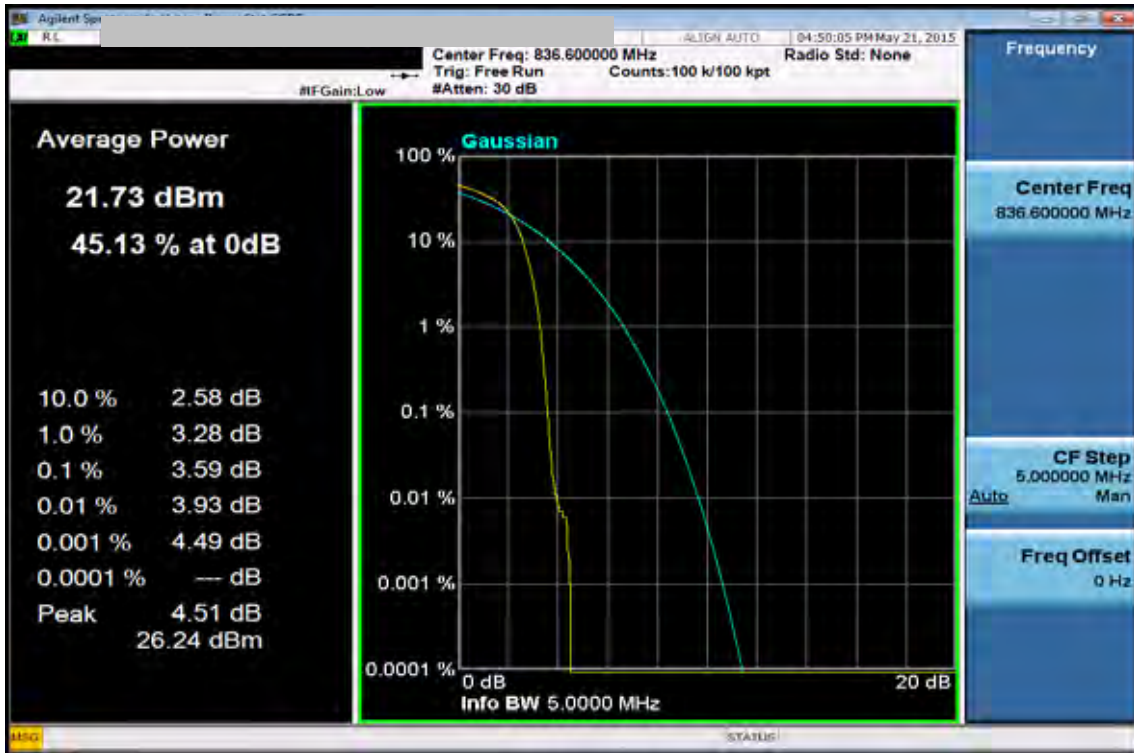
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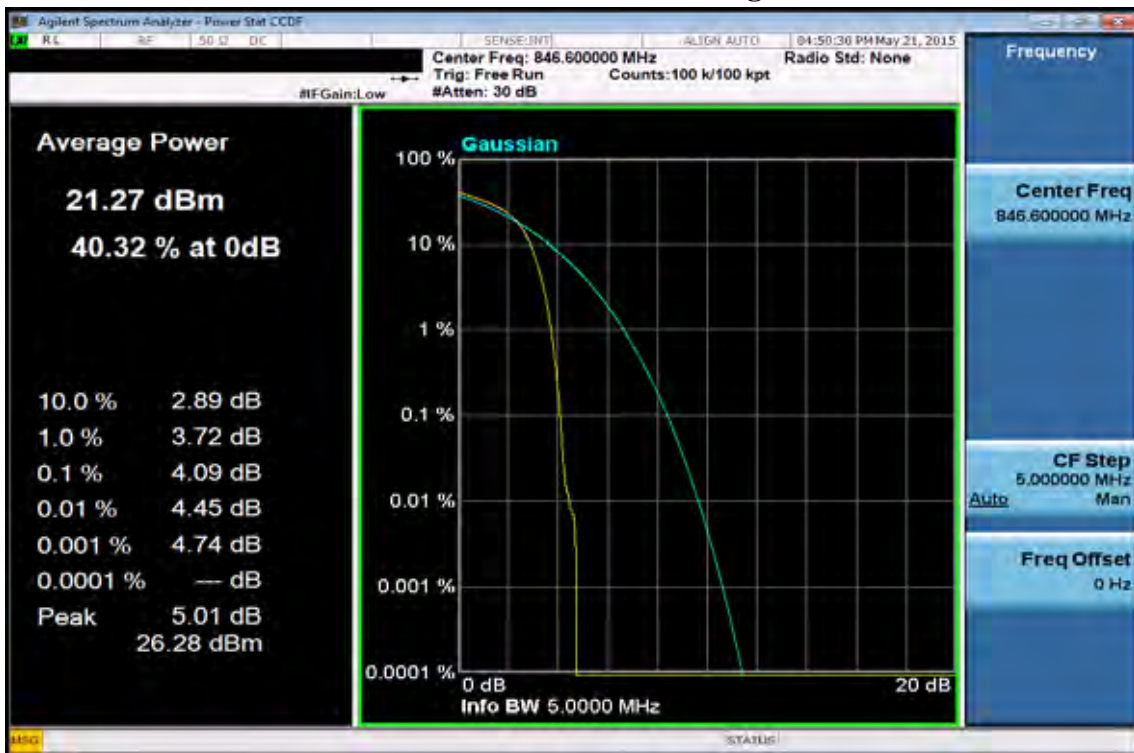
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HSDPA Band V Channel Mid



HSDPA Band V Channel High



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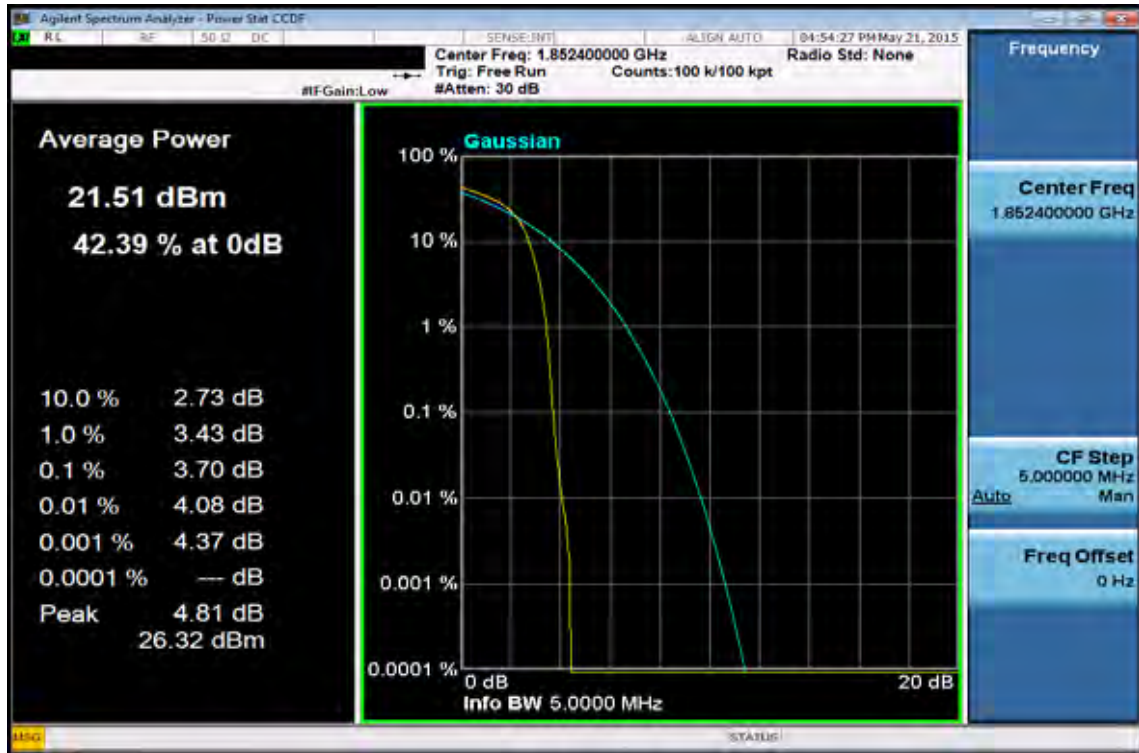
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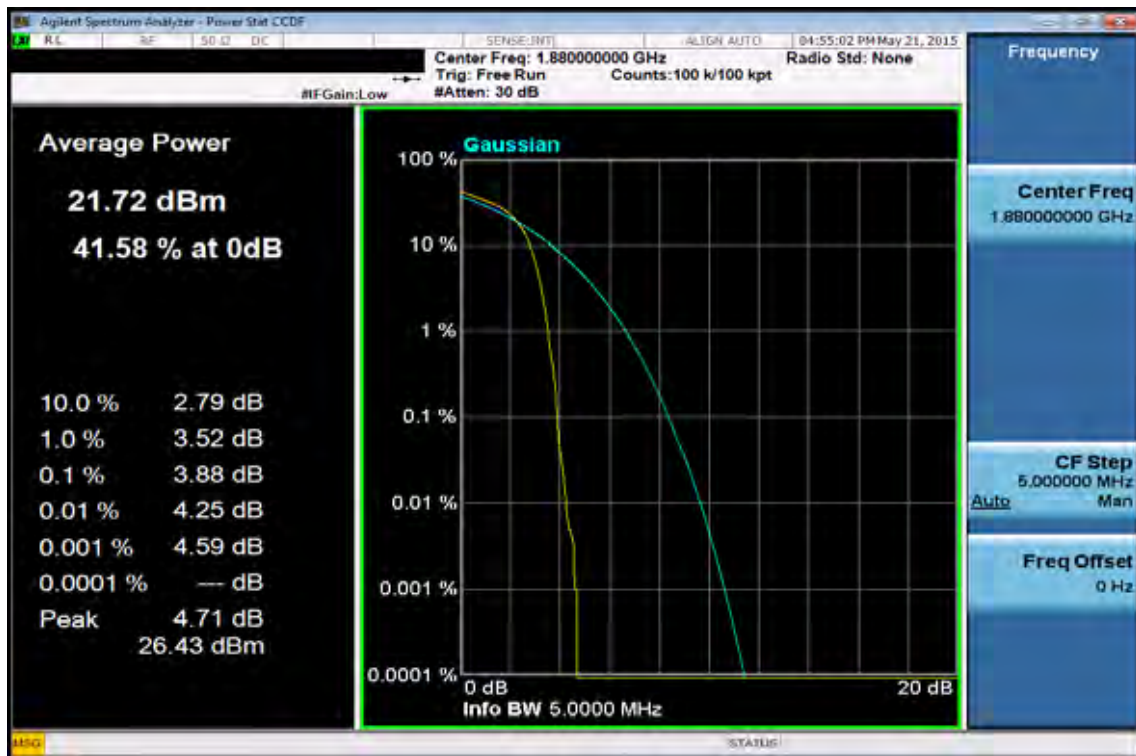
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### HSUPA Band II Channel Low



### HSUPA Band II Channel Mid



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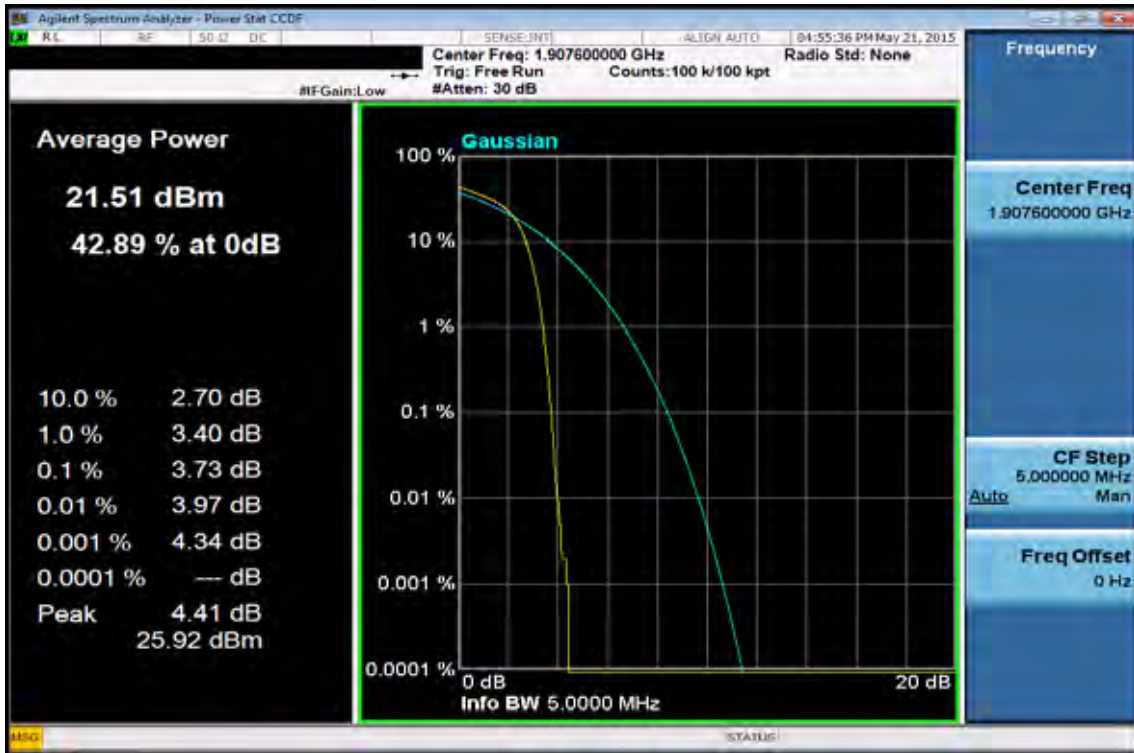
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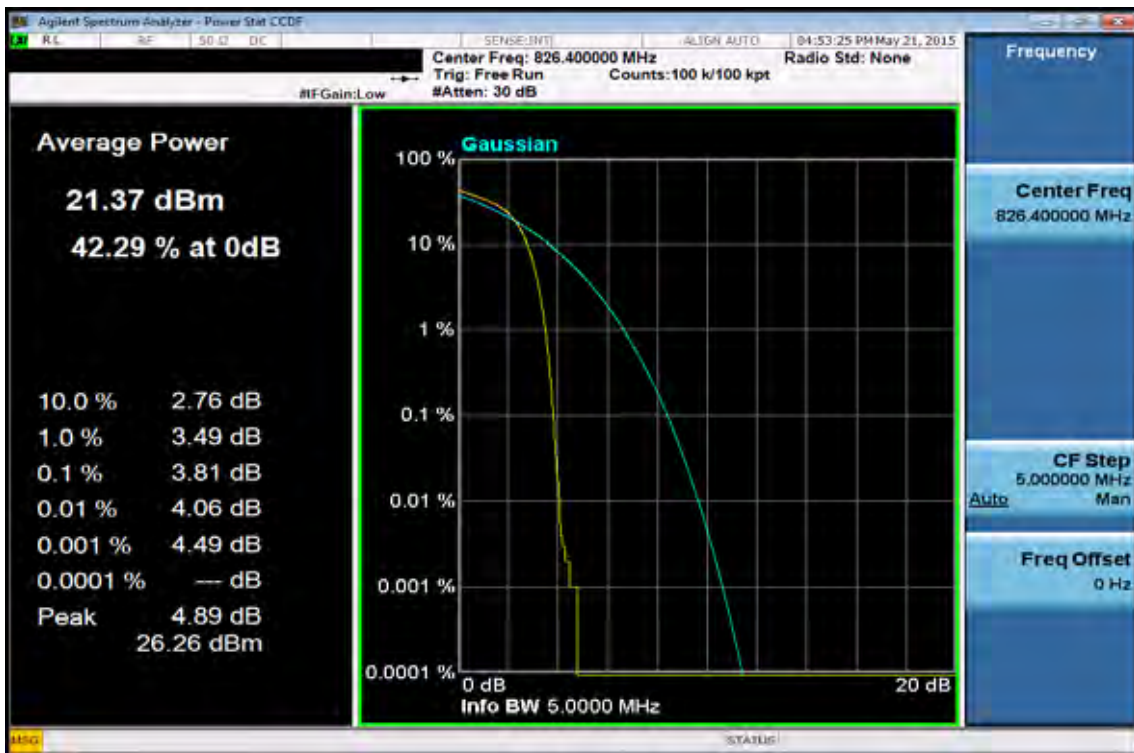
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### HSUPA Band II Channel High



### HSUPA Band V Channel Low



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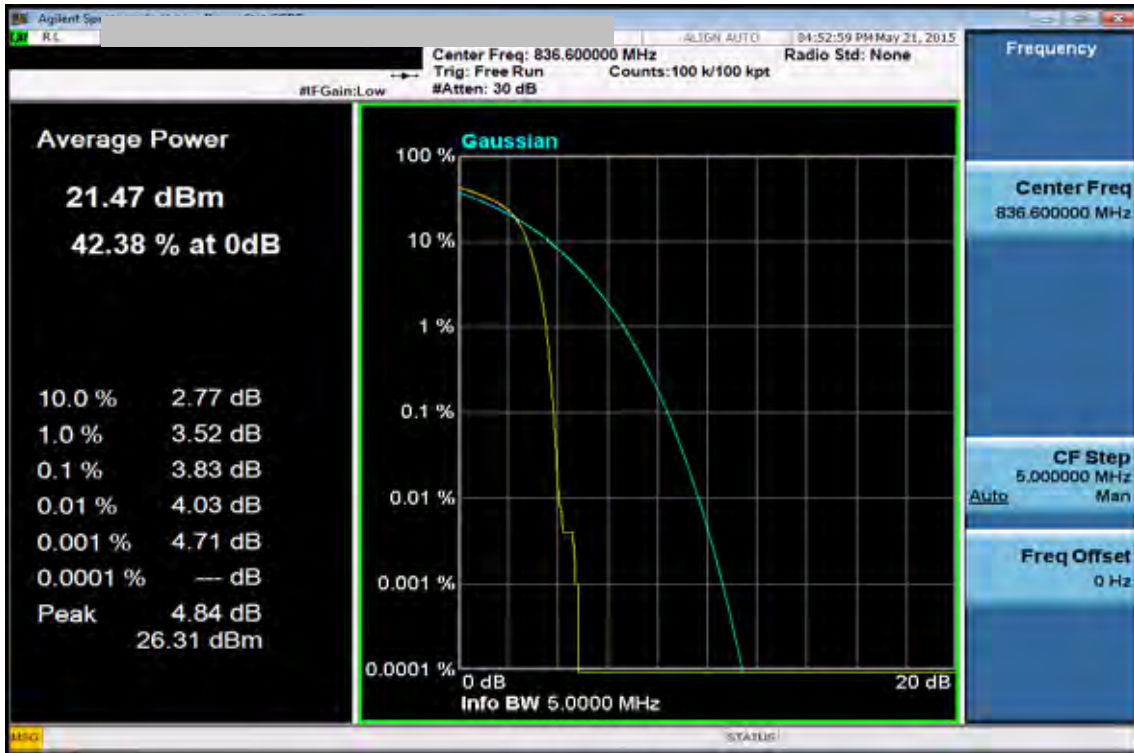
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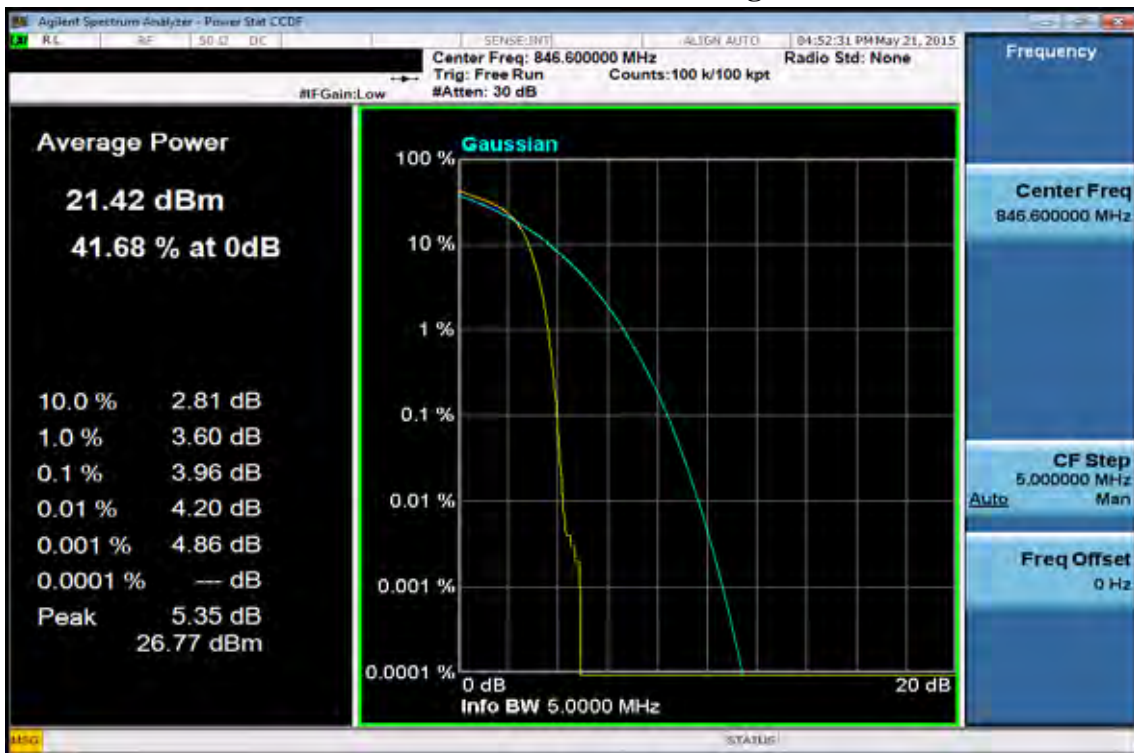
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### HSUPA Band V Channel Mid



### HSUPA Band V Channel High

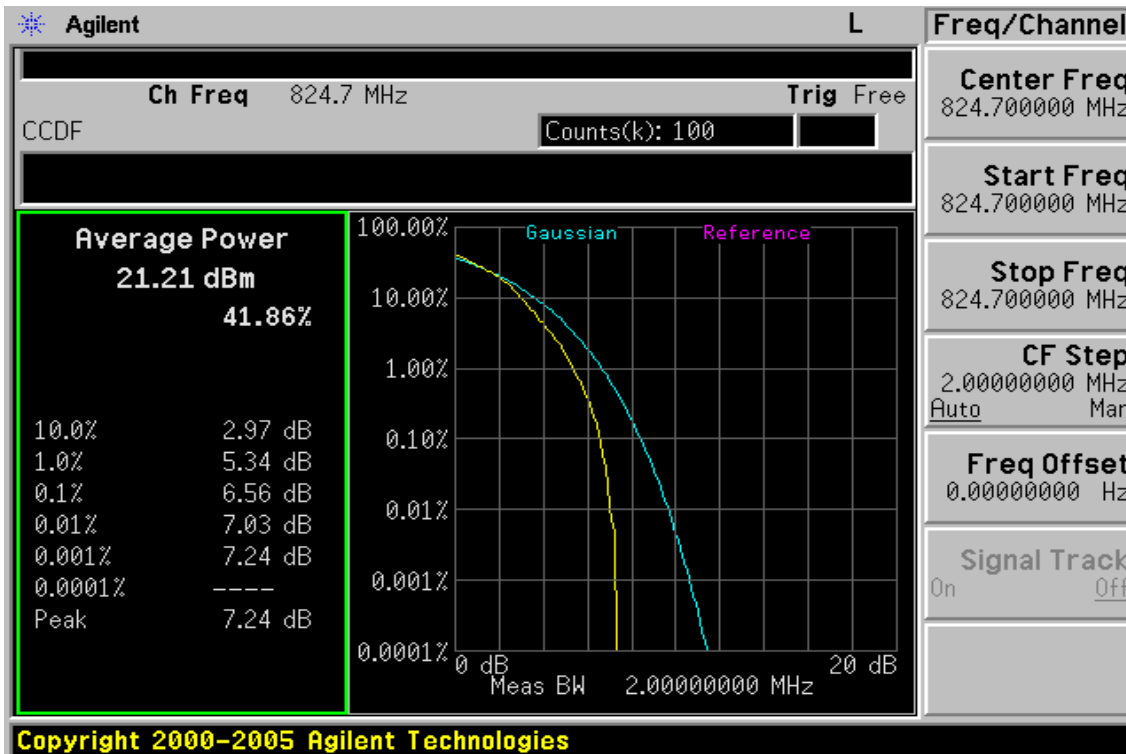


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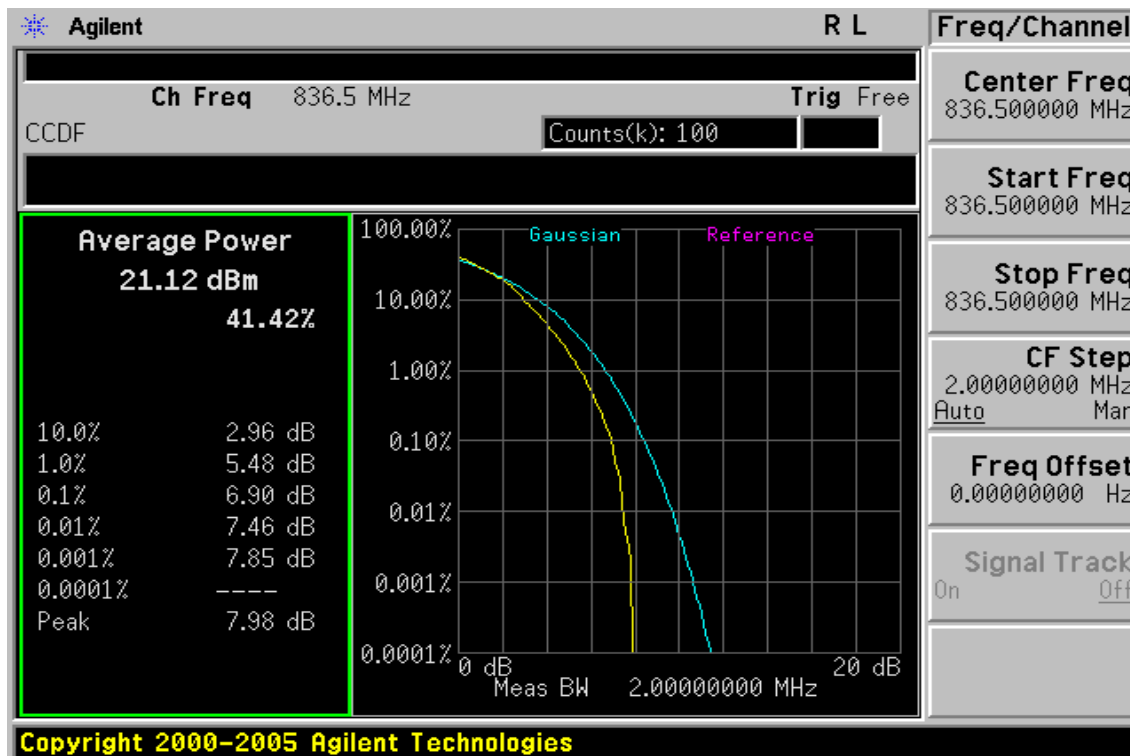
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1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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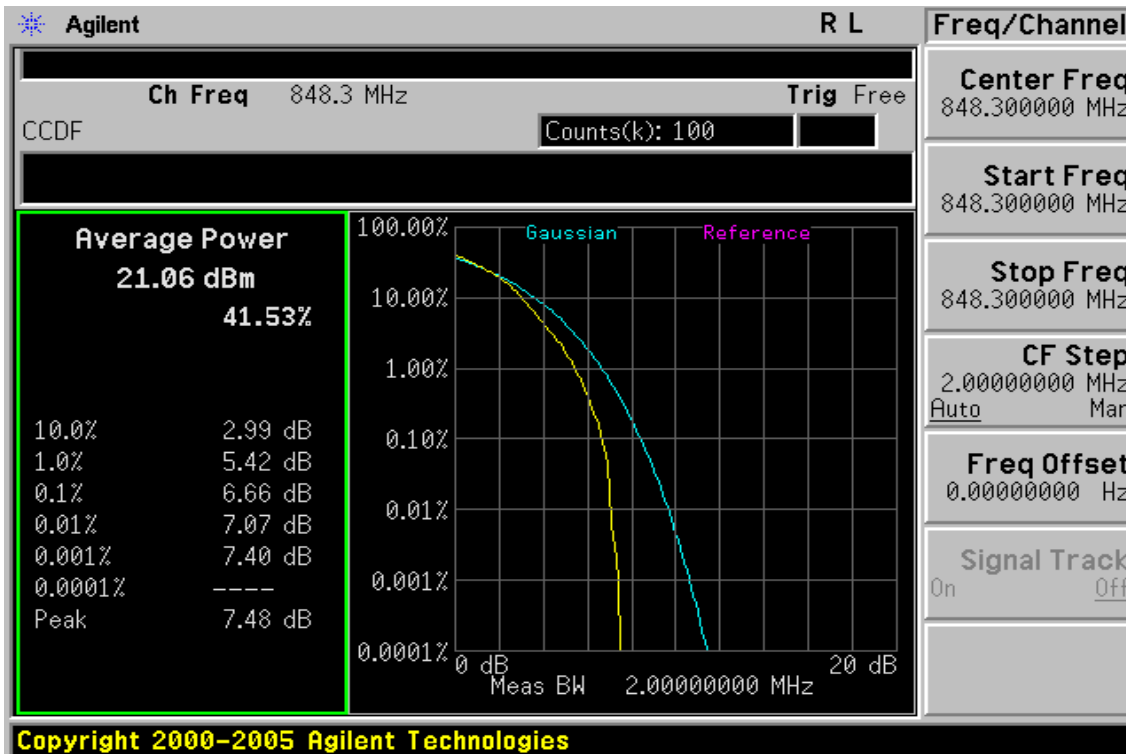
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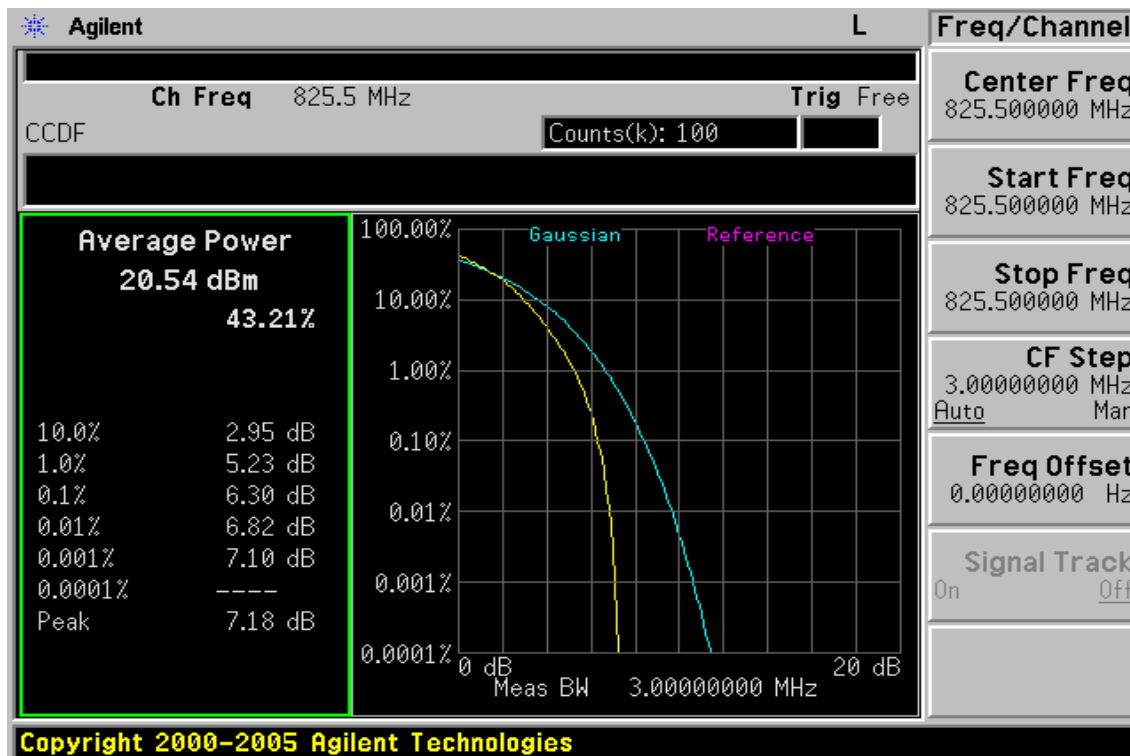
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**1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High**



**3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low**



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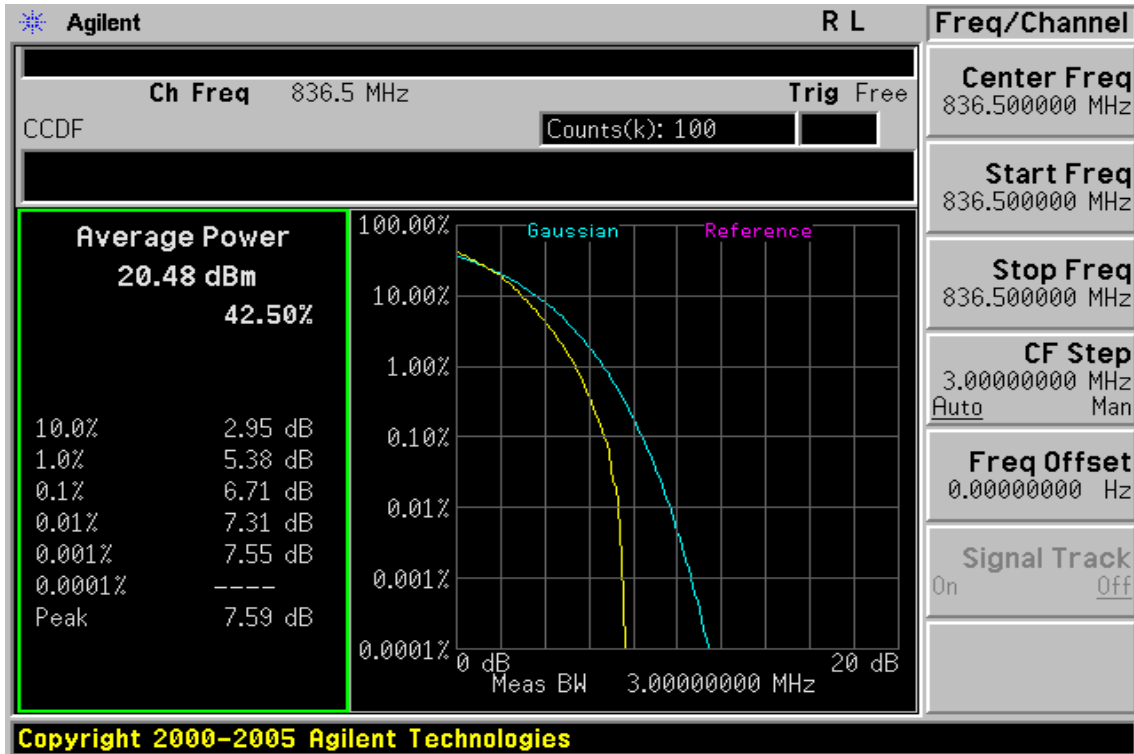
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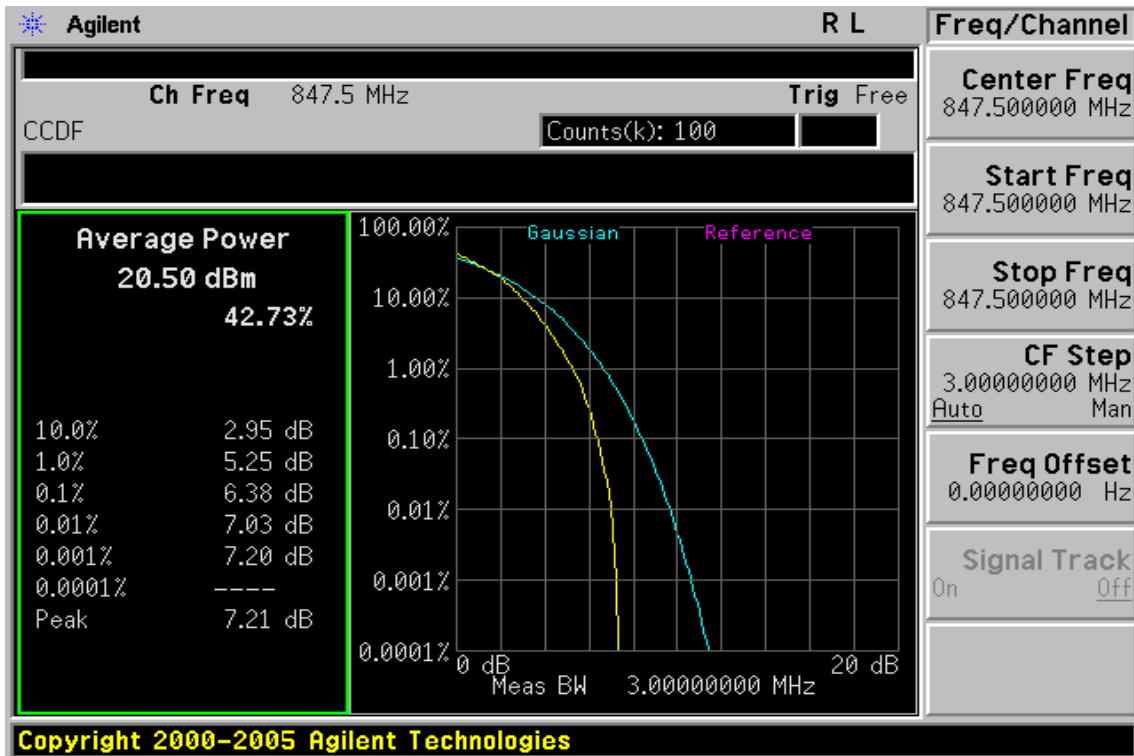
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**3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid**



**3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High**



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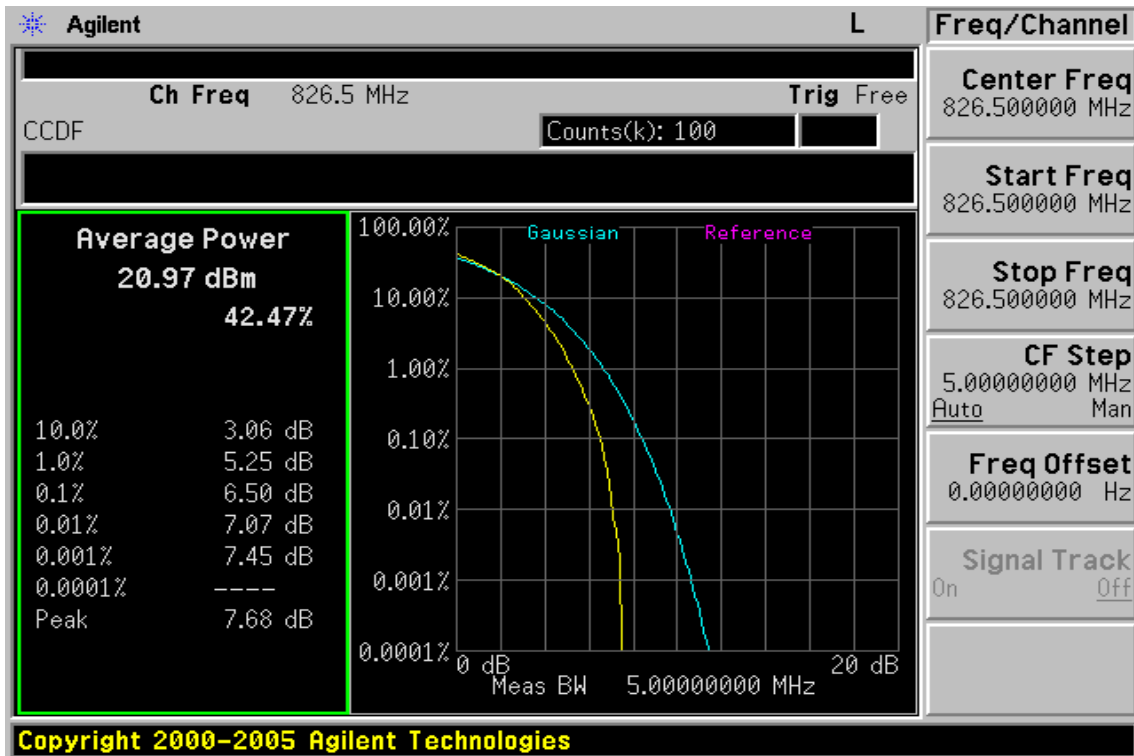
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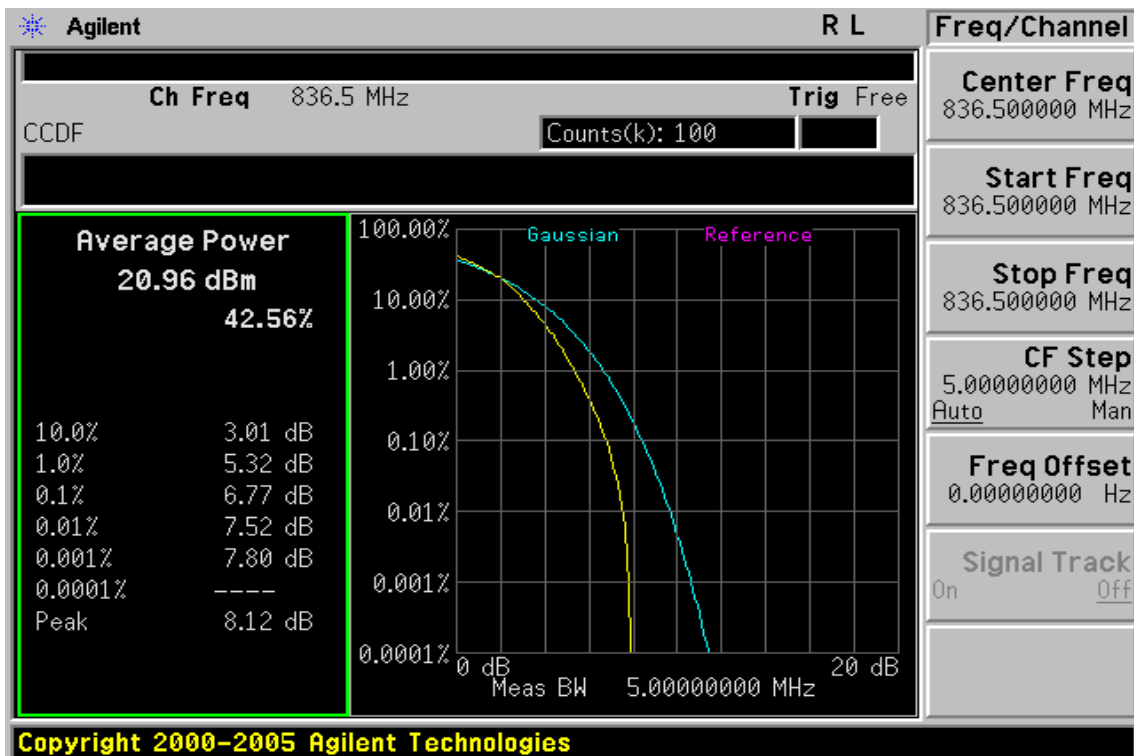
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**5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low**



**5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid**



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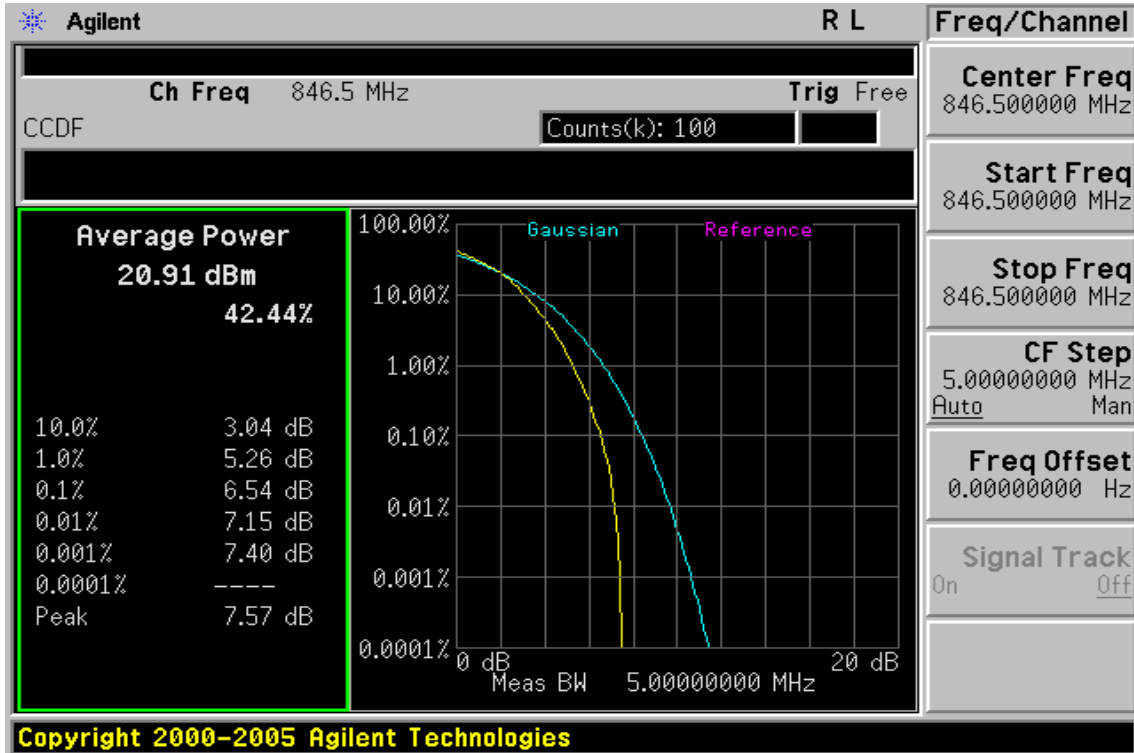
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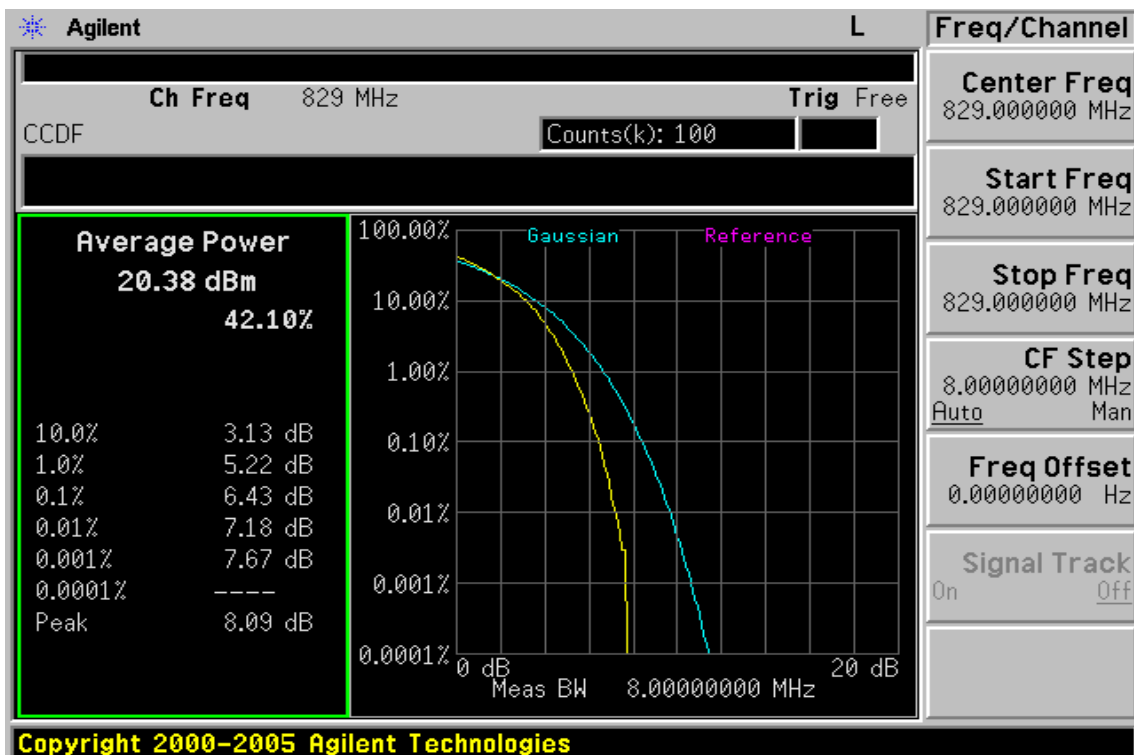
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**5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low**



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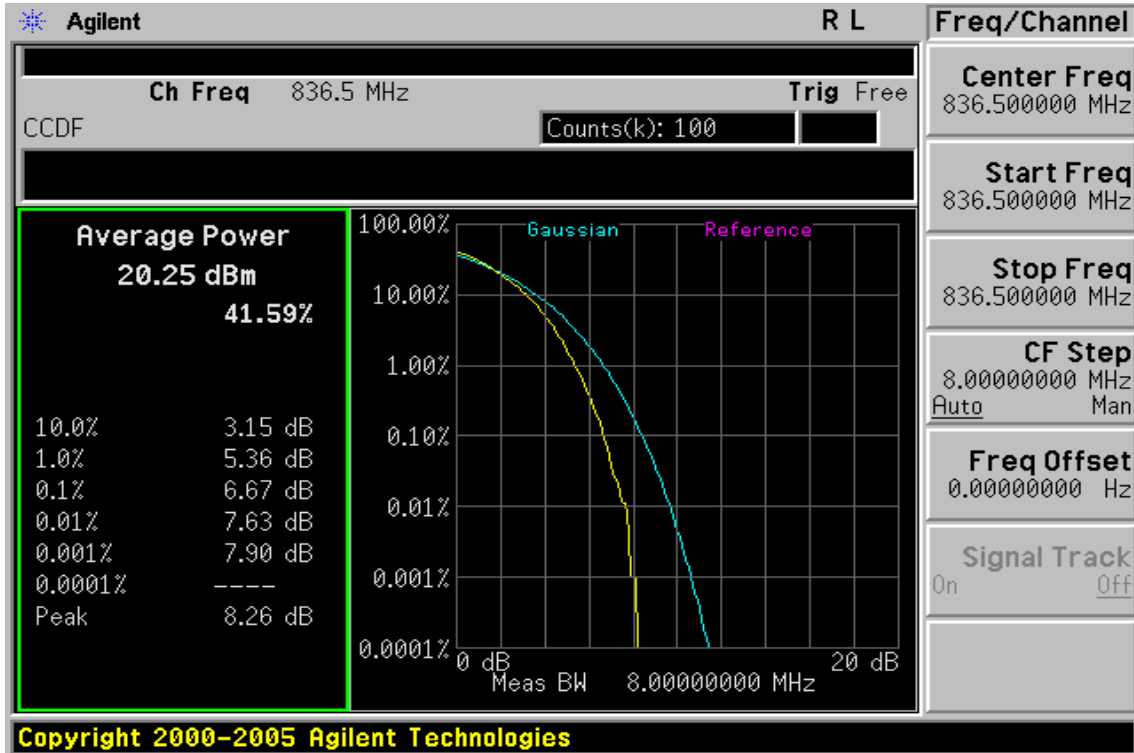
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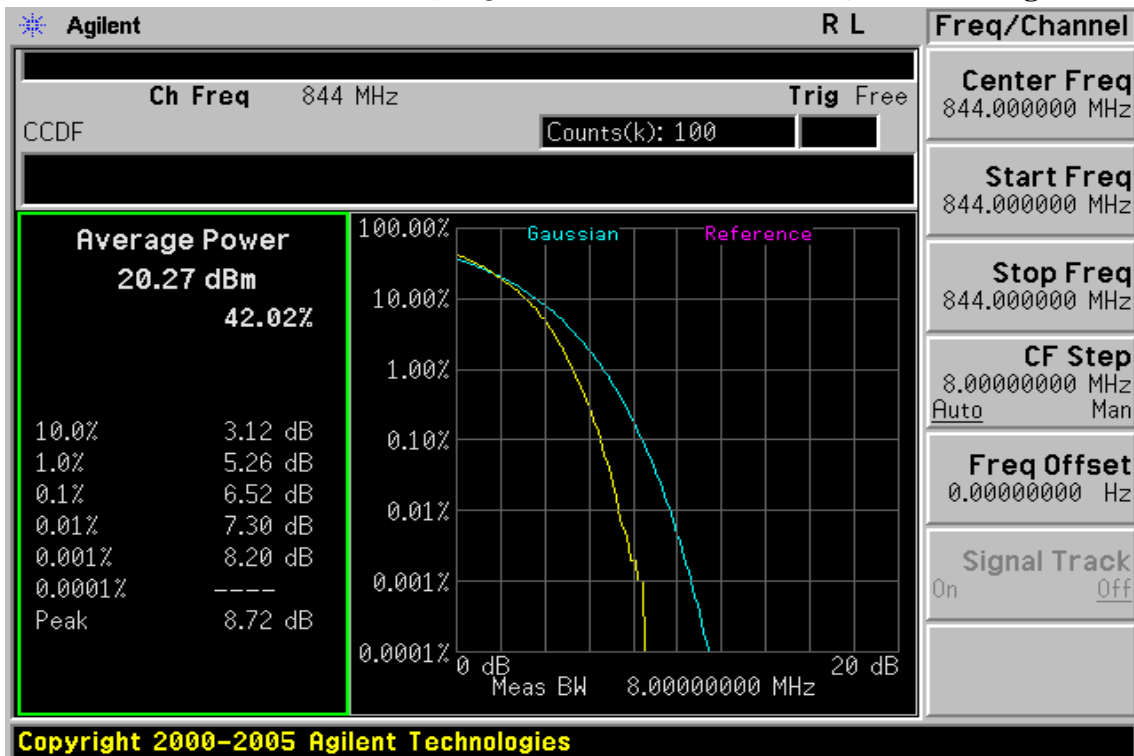
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**10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid**



**10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High**



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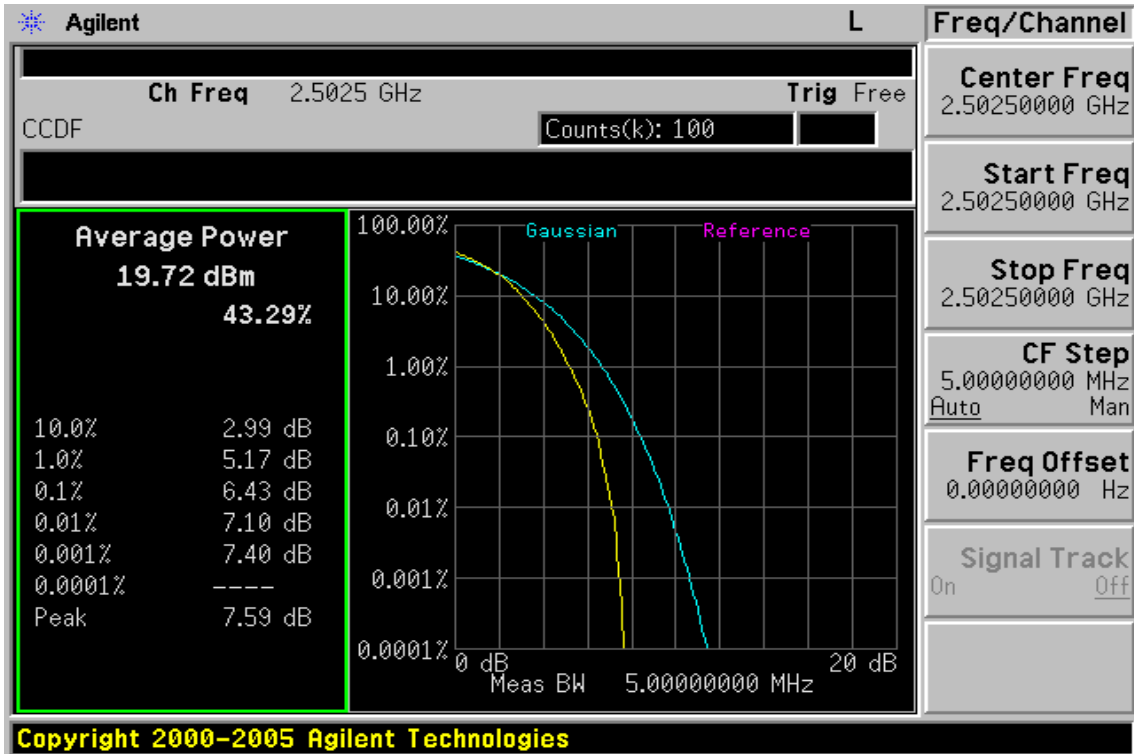
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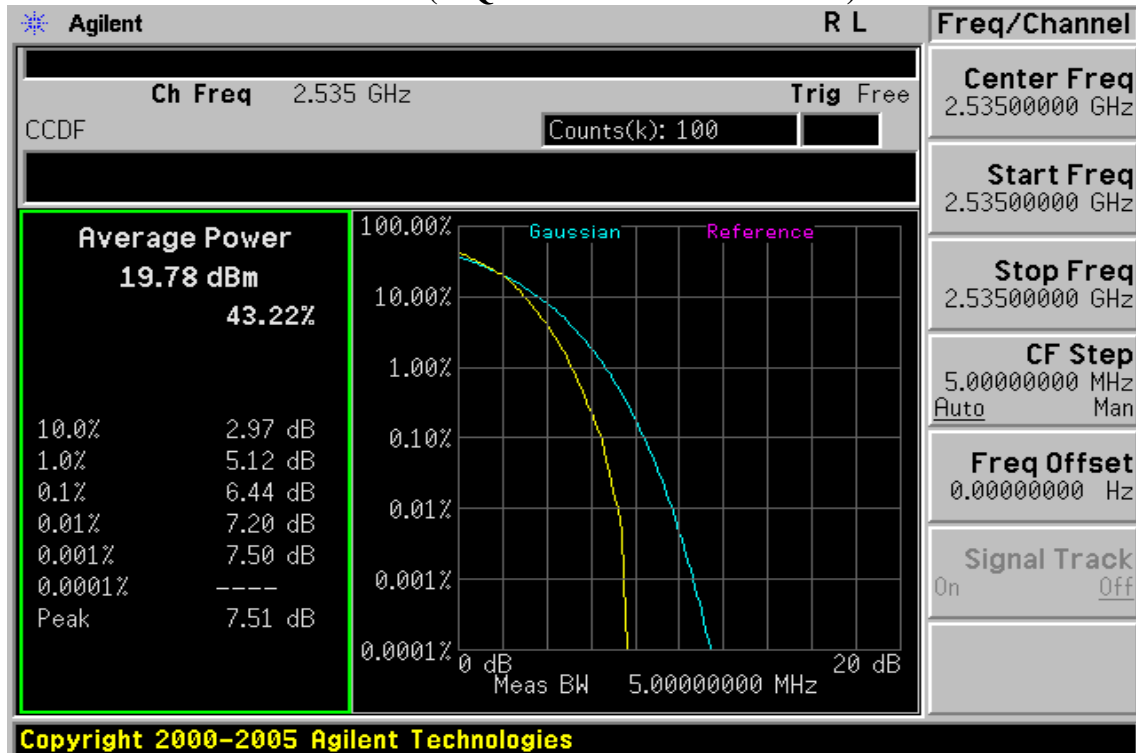
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**5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low**



**5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid**



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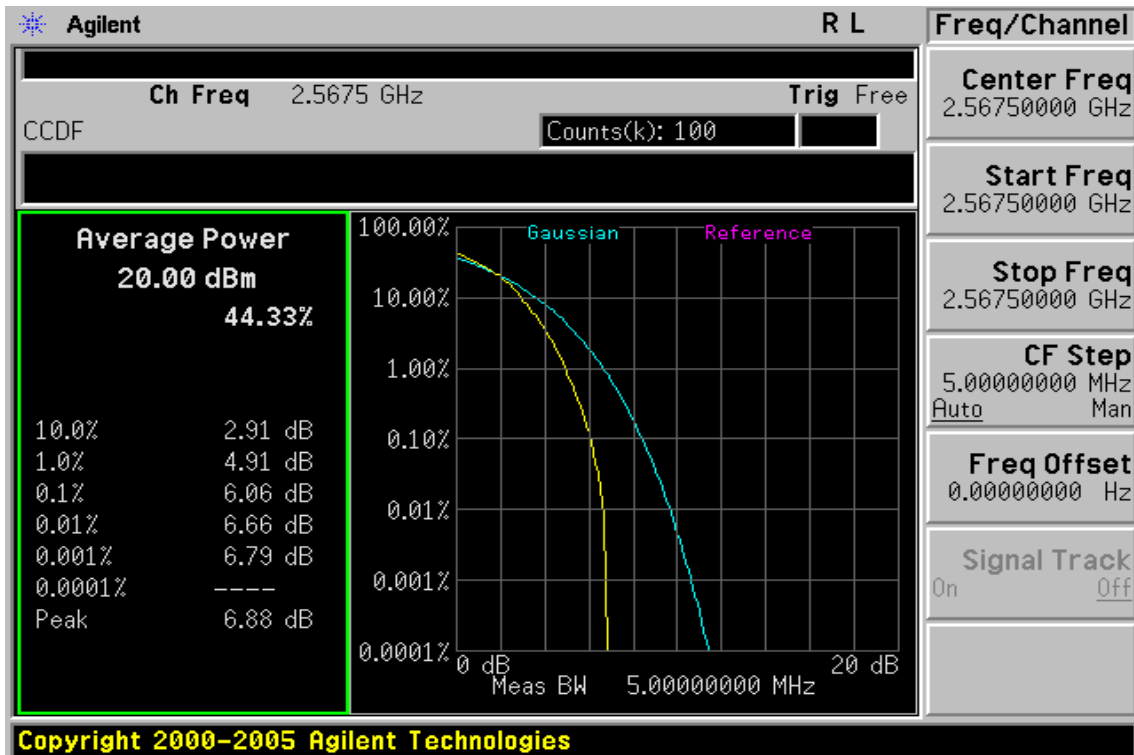
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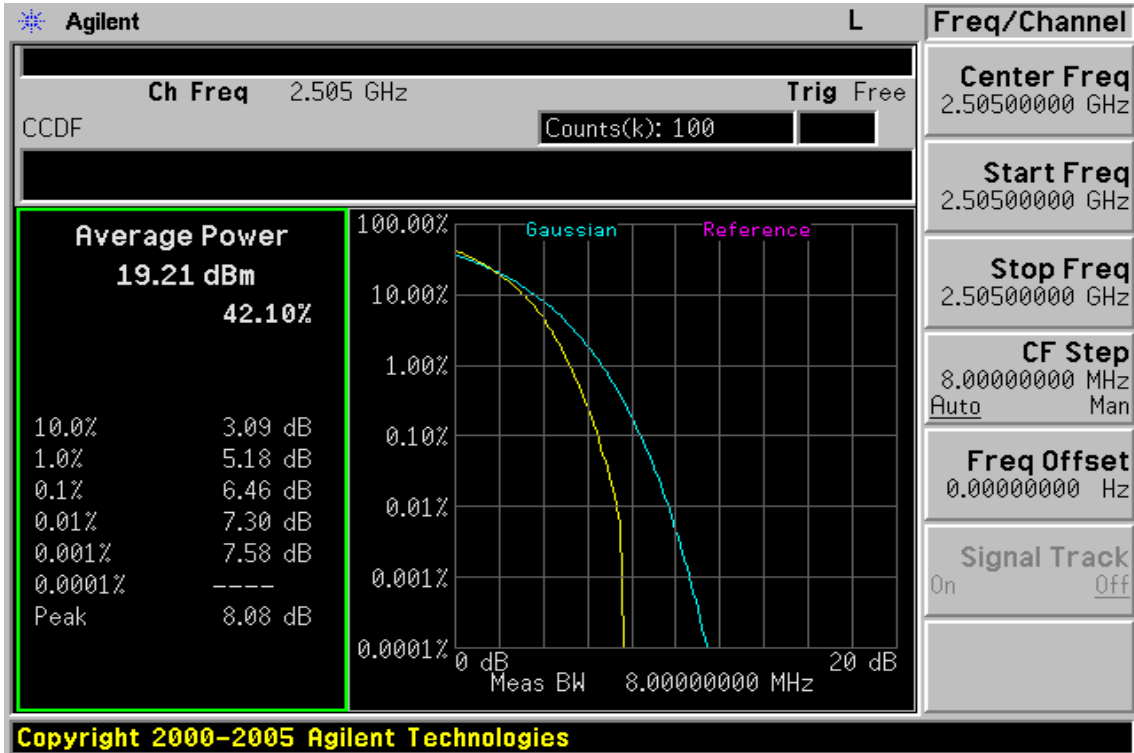
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**5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low**



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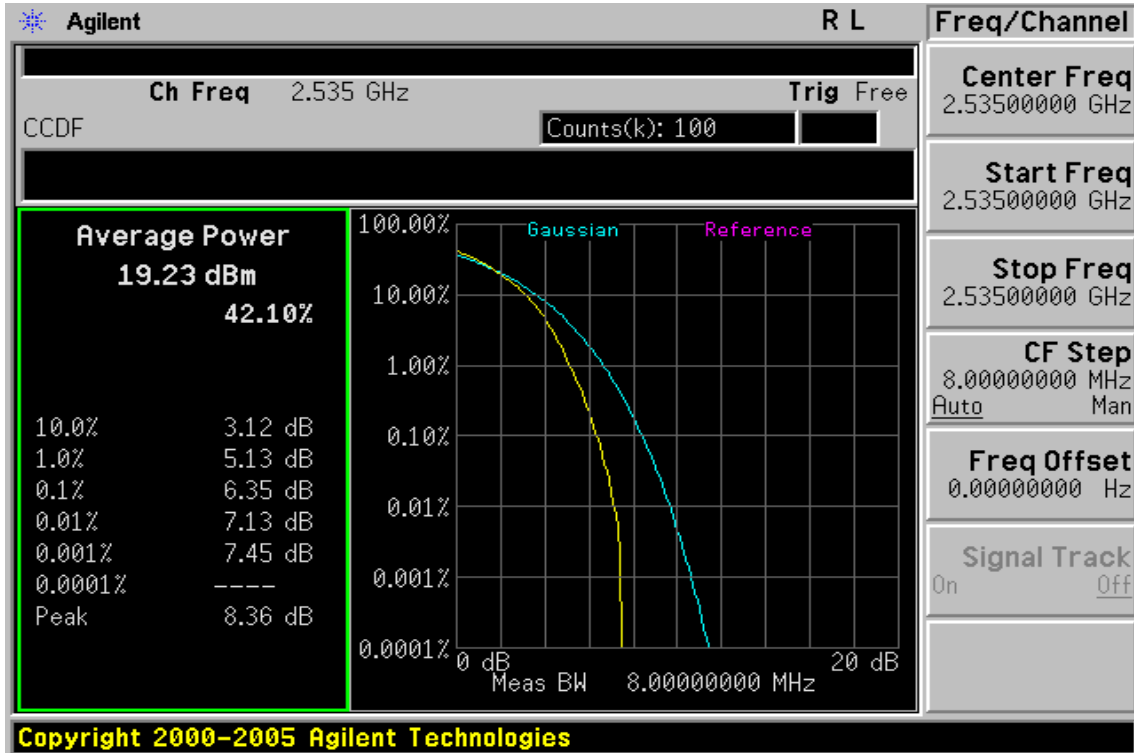
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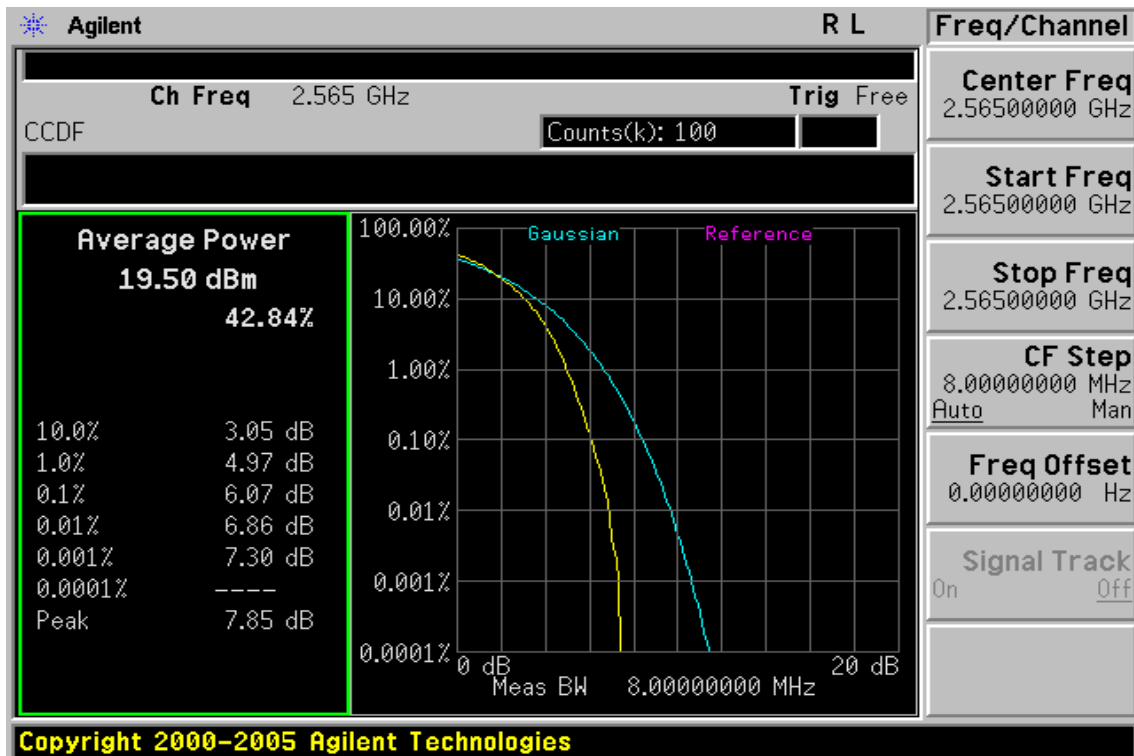
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**10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid**



**10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High**



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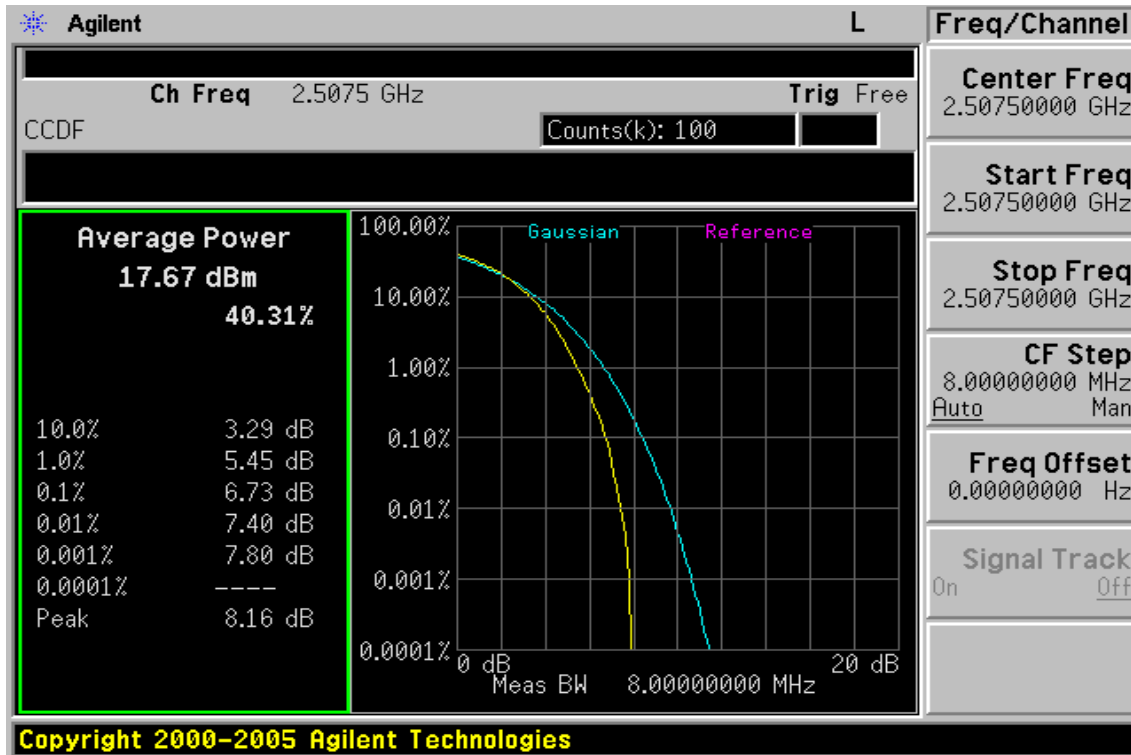
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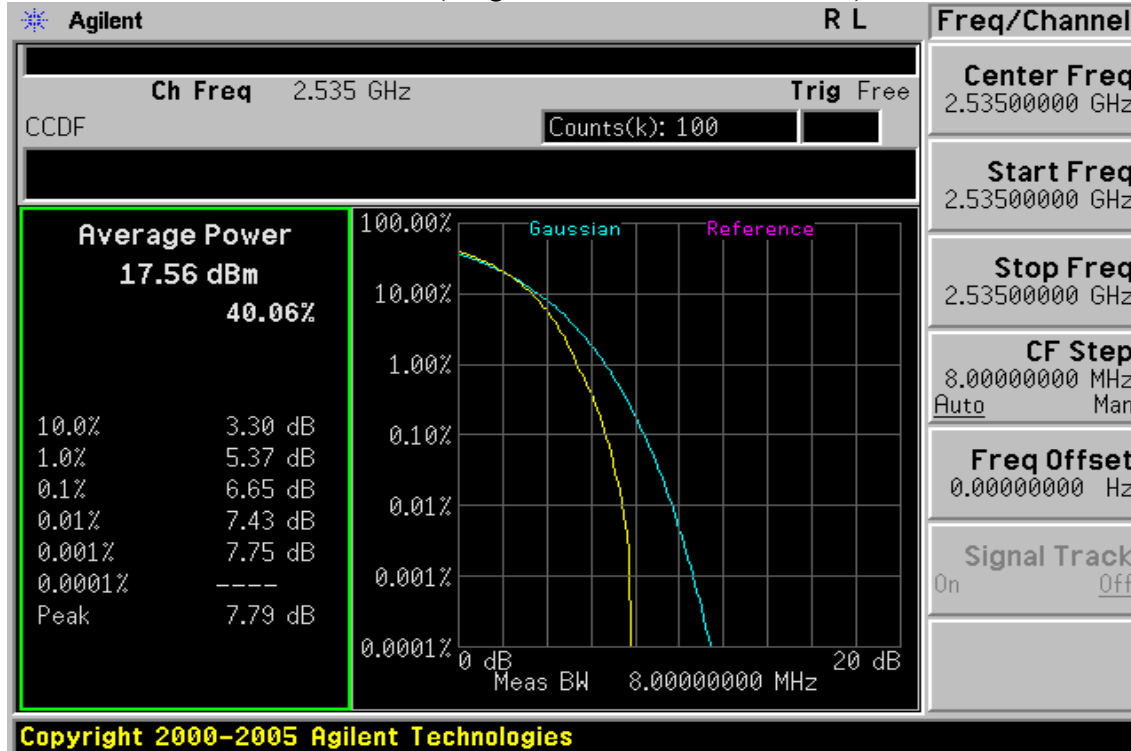
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**15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low**



**15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid**



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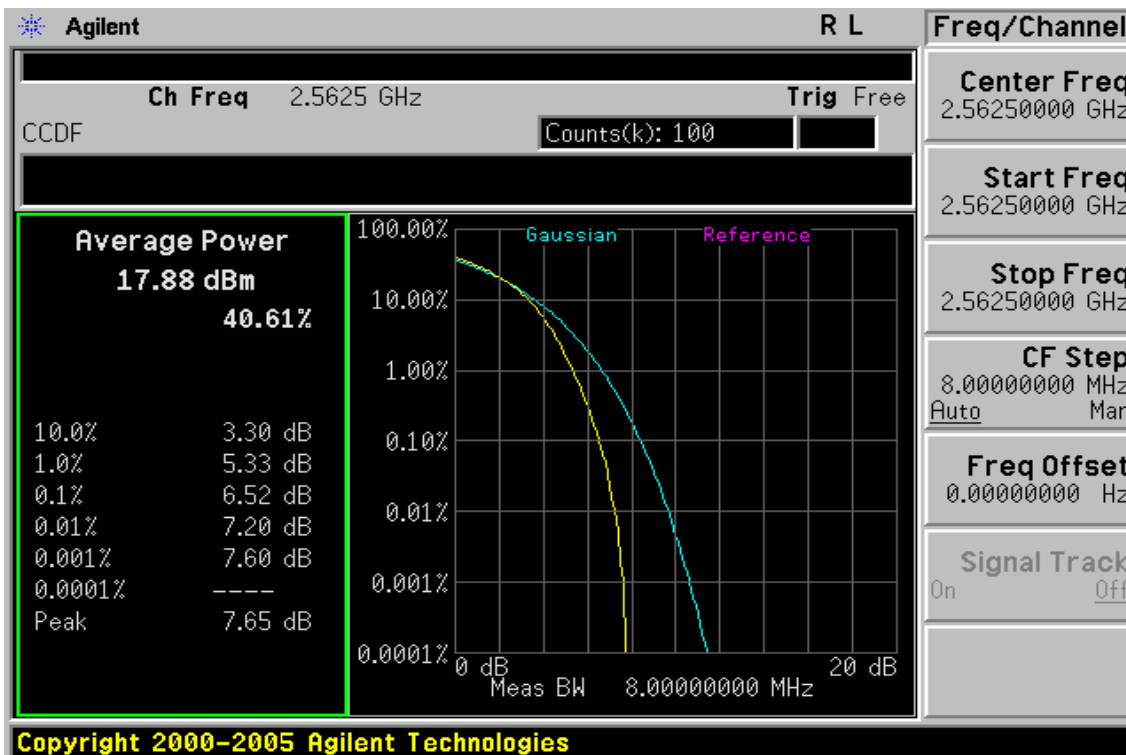
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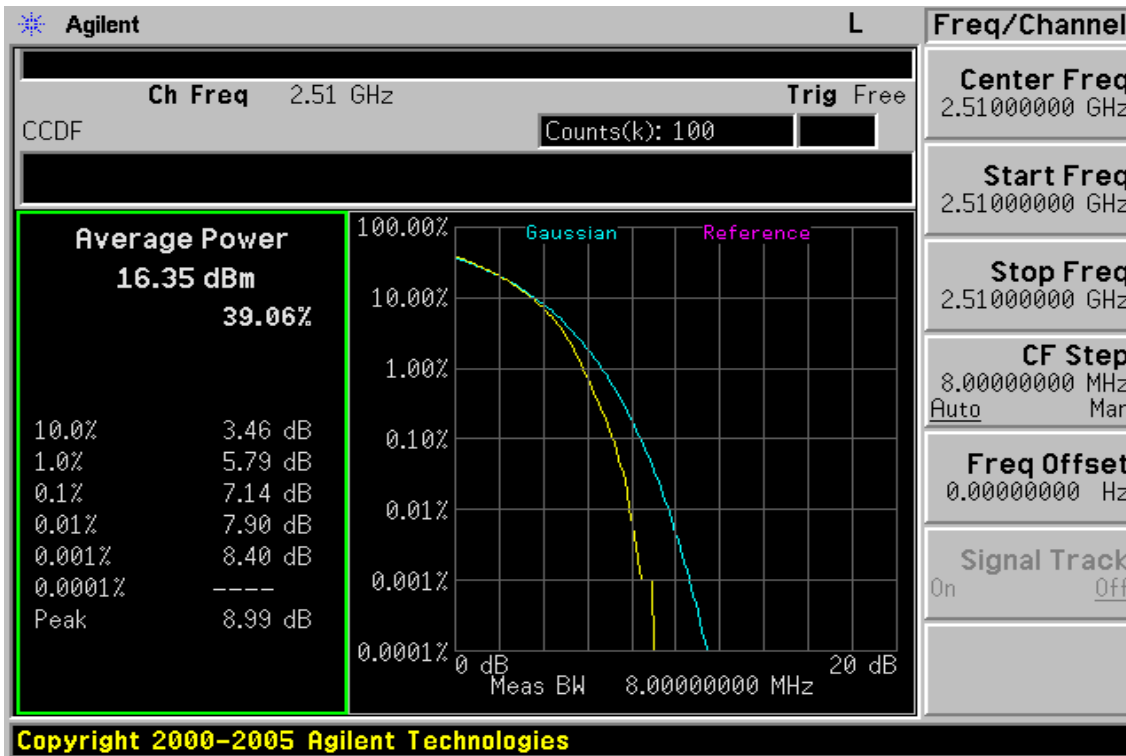
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**15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High**



**20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low**



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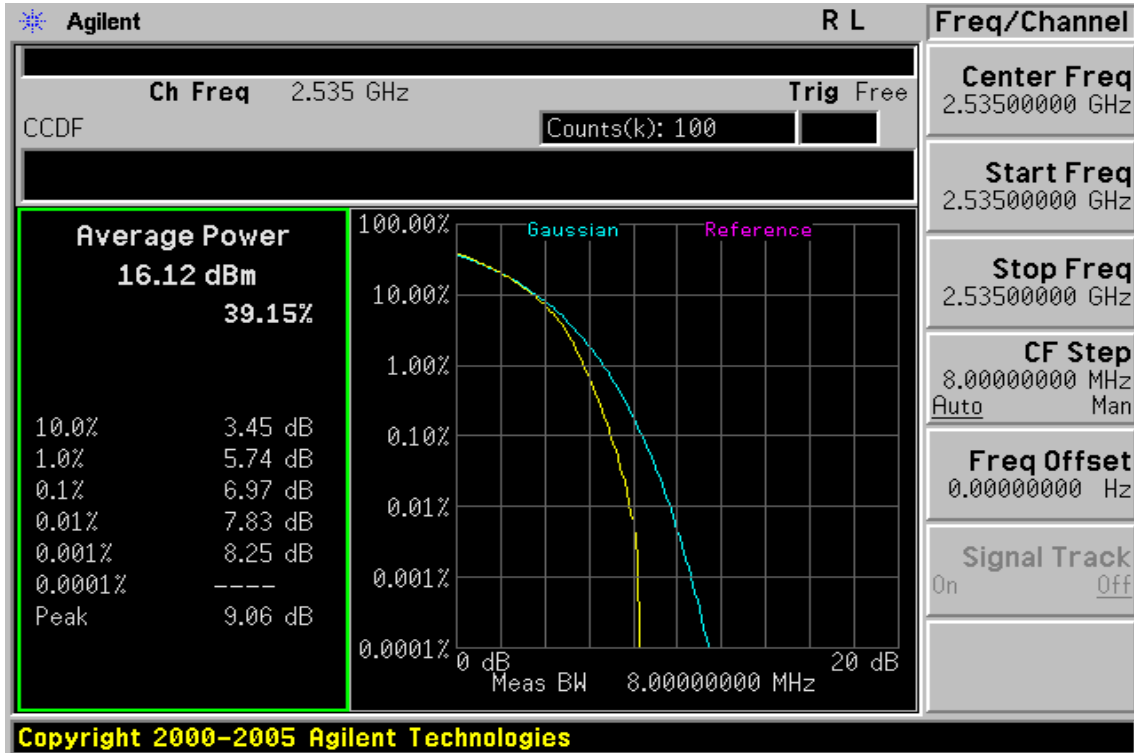
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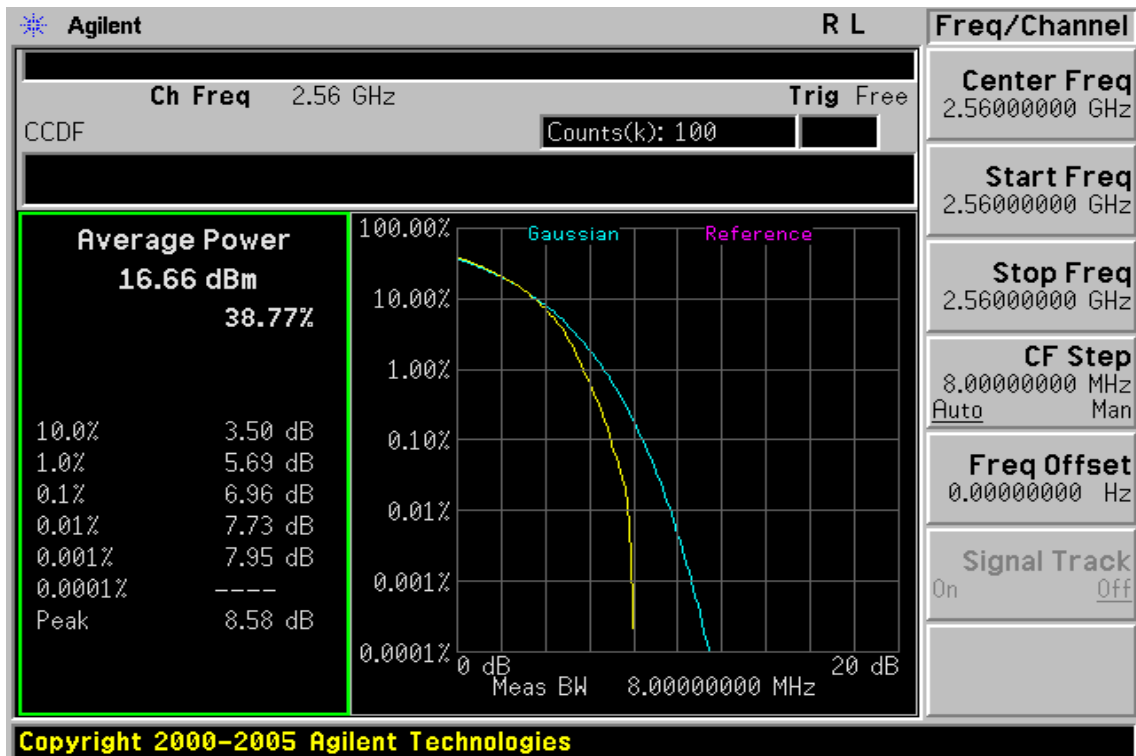
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**20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid**



**20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High**



~ End of Report ~

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