

## **ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**

### **INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C & SUBPART L and PART 90 S REQUIREMENT**

OF

**Product Name:** 7-inch Rugged Tablet  
**Brand Name:** Pioneerpos  
**Marketing Name:** DASH 7" Robust Tablet PC  
**Model No.:** DASH7E1  
**Model Difference:** N/A  
**FCC ID:** CPOD7E1-LTE  
**Report No.:** ER/2015/40020  
**Issue Date:** Jun. 04, 2015  
**FCC Rule Part:** 2 , 22H & 24E & 27C & L & 90S  
**Prepared for:** Pioneer POS Solution, Inc.  
238 Benton Ct., City of Industry, CA 91789  
**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:** Pioneer POS Solution, Inc.  
 238 Benton Ct., City of Industry, CA 91789

**Product Name:** 7-inch Rugged Tablet

**Brand Name:** Pioneerpos

**Marketing Name:** DASH 7" Robust Tablet PC

**Model No.:** DASH7E1

**Model Difference:** N/A

**FCC ID:** CPOD7E1-LTE

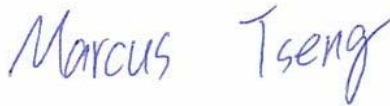
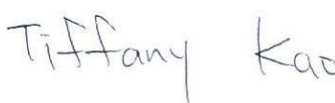

**File Number:** ER/2015/40020

**Date of test:** Apr. 15, 2015 ~ Jun. 04, 2015

**Date of EUT Received:** Apr. 15, 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.

<b>Test By:</b>		<b>Date:</b>	Jun. 04, 2015
	_____ <i>Marcus Tseng / Engineer</i>		_____ 
<b>Prepared By:</b>		<b>Date:</b>	Jun. 04, 2015
	_____ <i>Tiffany Kao / Clerk</i>		_____ 
<b>Approved By:</b>		<b>Date:</b>	Jun. 04, 2015
	_____ <i>Jim Chang / Asst. Manager</i>		_____ 

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2015/40020	Rev.00	Initial creation of document	Jun. 04, 2015

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# 1. GENERAL PRODUCT INFORMATION

## 1.1. Product Description

General:

Product Name:	7-inch Rugged Tablet	
Brand Name:	Pioneerpos	
Marketing Name:	DASH 7" Robust Tablet PC	
Model No.:	DASH7E1	
Model Difference:	N/A	
Product SW/HW version:	20150128 / A0.3_0_0	
Radio SW/HW version:	05.05.16.00 / 1.1	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Data Cable:	Model No.: N/A, Supplier: N/A	
Power Supply:	7.4Vdc from Rechargeable Li-ion Battery or 12V from AC/DC Adapter	
	Battery:	Model No.: J1067, Supplier: JHT
	Adapter:	Model No.: LTE-24E-S2-2, Supplier: Li Tone Electronics Co., Ltd
IMEI:	353515050147313	

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GPRS / WCDMA/ CDMA:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GPRS 850, Class 10	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
	GPRS 1900, Class 10	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 IV	1712.4MHz - 1752.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	CDMA/EVDO BC0	824.7 MHz– 848.31MHz	24 dBm
	CDMA/EVDO BC1	1851.25MHz-1908.75MHz	24 dBm
	CDMA/EVDO BC10	817.9 MHz – 823.1 MHz	24 dBm

LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 2 (Bandwidth 1.4MHz)	1850.7MHz– 1909.3MHz	23dBm
	LTE-Band 2 (Bandwidth 3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (Bandwidth 5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (Bandwidth 10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (Bandwidth 15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (Bandwidth 20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (Bandwidth 1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (Bandwidth 3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (Bandwidth 5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (Bandwidth 10MHz)	1715.0MHz – 1750.0MHz	23dBm
	LTE-Band 4 (Bandwidth 15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (Bandwidth 20MHz)	1720.0MHz – 1745.0MHz	23dBm

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Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 5 (Bandwidth 1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 3MHz)	825.5MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 13 (Bandwidth 5MHz)	779.5MHz – 784.5MHz	23 dBm
	LTE-Band 13 (Bandwidth 10MHz)	782.0MHz – 782.0MHz	23 dBm
	LTE-Band 17 (Bandwidth 5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (Bandwidth 10MHz)	709.0MHz – 711.0MHz	23dBm
	LTE-Band 25 (Bandwidth 1.4MHz)	1850.7MHz – 1914.3MHz	23dBm
	LTE-Band 25 (Bandwidth 3MHz)	1851.5MHz – 1913.5MHz	23dBm
	LTE-Band 25 (Bandwidth 5MHz)	1852.5MHz – 1912.5MHz	23dBm
	LTE-Band 25 (Bandwidth 10MHz)	1855.0MHz – 1910.0MHz	23dBm
	LTE-Band 25 (Bandwidth 15MHz)	1857.5MHz – 1907.5MHz	23dBm
	LTE-Band 25 (Bandwidth 20MHz)	1860.0MHz – 1905.0MHz	23dBm

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Type of Emission:	GPRS 850	246KGXW
	EDGE 850	248KG7W
	GPRS 1900	247KGXW
	EDGE 1900	245KG7W
	WCDMA Band II	4M17F9W
	HSDPA Band II	4M17F9W
	HSUPA Band II	4M17F9W
	WCDMA Band IV	4M17F9W
	HSDPA Band IV	4M17F9W
	HSUPA Band IV	4M18F9W
	WCDMA Band V	4M16F9W
	HSDPA Band V	4M15F9W
	HSUPA Band V	4M14F9W
	CDMA BC0	1M27F9W
	EVDO BC0	1M28F9W
	CDMA BC1	1M27F9W
	EVDO BC1	1M27F9W
	CDMA BC10	1M27F9W
	EVDO BC10	1M27F9W
	LTE-Band 2 (Bandwidth 1.4MHz) QPSK	1M09G7D
	LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 2 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 2 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 2 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 2 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 2 (Bandwidth 10MHz) QPSK	8M99G7D
	LTE-Band 2 (Bandwidth 10MHz) 16QAM	9M00D7W
	LTE-Band 2 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 2 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 2 (Bandwidth 20MHz) QPSK	18M0G7D
	LTE-Band 2 (Bandwidth 20MHz) 16QAM	18M0D7W
	LTE-Band 4 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 4 (Bandwidth 3MHz) QPSK	2M72G7D
	LTE-Band 4 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 4 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 4 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 4 (Bandwidth 10MHz) QPSK	9M00G7D
	LTE-Band 4 (Bandwidth 10MHz) 16QAM	8M99D7W
	LTE-Band 4 (Bandwidth 15MHz) QPSK	13M4G7D
LTE-Band 4 (Bandwidth 15MHz) 16QAM	13M5D7W	
LTE-Band 4 (Bandwidth 20MHz) QPSK	17M9G7D	
LTE-Band 4 (Bandwidth 20MHz) 16QAM	18M0D7W	

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Type of Emission:	LTE-Band 5 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	1M11D7W
	LTE-Band 5 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 5 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 5 (Bandwidth 5MHz) QPSK	4M48G7D
	LTE-Band 5 (Bandwidth 5MHz) 16QAM	4M50D7W
	LTE-Band 5 (Bandwidth 10MHz) QPSK	9M00G7D
	LTE-Band 5 (Bandwidth 10MHz) 16QAM	8M96D7W
	LTE-Band 13 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 13 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 13 (Bandwidth 10MHz) QPSK	8M91G7D
	LTE-Band 13 (Bandwidth 10MHz) 16QAM	8M94D7W
	LTE-Band 17 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 17 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 17 (Bandwidth 10MHz) QPSK	8M99G7D
	LTE-Band 17 (Bandwidth 10MHz) 16QAM	9M00D7W
	LTE-Band 25 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 25 (Bandwidth 1.4MHz) 16QAM	1M11D7W
	LTE-Band 25 (Bandwidth 3MHz) QPSK	2M70G7D
	LTE-Band 25 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 25 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 25 (Bandwidth 5MHz) 16QAM	4M50D7W
	LTE-Band 25 (Bandwidth 10MHz) QPSK	8M99G7D
	LTE-Band 25 (Bandwidth 10MHz) 16QAM	8M98D7W
	LTE-Band 25 (Bandwidth 15MHz) QPSK	13M4G7D
	LTE-Band 25 (Bandwidth 15MHz) 16QAM	13M5D7W
LTE-Band 25 (Bandwidth 20MHz) QPSK	17M9G7D	
LTE-Band 25 (Bandwidth 20MHz) 16QAM	17M9D7W	

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	21.26	ERP	0.134
EDGE 850 Band	20.85	ERP	0.122
GPRS 1900 Band	27.23	EIRP	0.528
EDGE 1900 Band	26.88	EIRP	0.488
WCDMA Band II	24.65	EIRP	0.292
HSDPA Band II	25.18	EIRP	0.330
HSUPA Band II	24.21	EIRP	0.264
WCDMA Band IV	26.18	EIRP	0.415
HSDPA Band IV	26.79	EIRP	0.478
HSUPA Band IV	25.91	EIRP	0.390
WCDMA Band V	17.40	ERP	0.055
HSDPA Band V	17.71	ERP	0.059
HSUPA Band V	17.20	ERP	0.052
CDMA 2000 BC0	17.35	ERP	0.054
EVDO 2000 BC0	16.67	ERP	0.046
CDMA 2000 BC1	23.36	EIRP	0.217
EVDO 2000 BC1	22.40	EIRP	0.174
CDMA 2000 BC10	16.82	ERP	0.048
EVDO 2000 BC10	15.65	ERP	0.037
LTE Band 2/1.4MMz /QPSK RB 1 Offset 0	28.53	EIRP	0.713
LTE Band 2/1.4MMz /16QAM RB 1 Offset 5	29.29	EIRP	0.849
LTE Band 2/3MMz /QPSK RB 1 Offset 14	27.84	EIRP	0.608
LTE Band 2/3MMz /16QAM RB 1 Offset 14	28.56	EIRP	0.718
LTE Band 2/5MMz /QPSK RB 1 Offset 0	27.60	EIRP	0.575
LTE Band 2/5MMz /16QAM RB 1 Offset 24	28.40	EIRP	0.692
LTE Band 2/10MMz /QPSK RB 1 Offset 0	27.82	EIRP	0.605
LTE Band 2/10MMz /16QAM RB 1 Offset 0	28.36	EIRP	0.685
LTE Band 2/15MMz /QPSK RB 1 Offset 0	27.70	EIRP	0.589
LTE Band 2/15MMz /16QAM RB 1 Offset 0	27.95	EIRP	0.624
LTE Band 2/20MMz /QPSK RB 1 Offset 0	27.38	EIRP	0.547
LTE Band 2/20MMz /16QAM RB 1 Offset 0	27.54	EIRP	0.568

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LTE Band 4/1.4MMz/QPSK RB 1 Offset 5	28.77	EIRP	0.753
LTE Band 4/1.4MMz/16QAM RB 1 Offset 5	29.11	EIRP	0.815
LTE Band 4/3MMz/QPSK RB 1 Offset 14	27.82	EIRP	0.605
LTE Band 4/3MMz/16QAM RB 1 Offset 14	28.30	EIRP	0.676
LTE Band 4/5MMz/QPSK RB 1 Offset 0	27.18	EIRP	0.522
LTE Band 4/5MMz/16QAM RB 1 Offset 24	27.16	EIRP	0.520
LTE Band 4/10MMz/QPSK RB 1 Offset 49	27.53	EIRP	0.566
LTE Band 4/10MMz/16QAM RB 1 Offset 49	27.76	EIRP	0.597
LTE Band 4/15MMz/QPSK RB 1 Offset 74	27.28	EIRP	0.535
LTE Band 4/15MMz/16QAM RB 1 Offset 74	27.78	EIRP	0.600
LTE Band 4/20MMz/QPSK RB 1 Offset 0	27.13	EIRP	0.516
LTE Band 4/20MMz/16QAM RB 1 Offset 0	27.64	EIRP	0.581
LTE Band 5/1.4MMz/QPSK RB 1 Offset 5	18.76	ERP	0.075
LTE Band 5/1.4MMz/16QAM RB 1 Offset 5	20.97	ERP	0.125
LTE Band 5/3MMz/QPSK RB 1 Offset 0	21.19	ERP	0.132
LTE Band 5/3MMz/16QAM RB 1 Offset 0	23.08	ERP	0.203
LTE Band 5/5MMz/QPSK RB 1 Offset 0	21.10	ERP	0.129
LTE Band 5/5MMz/16QAM RB 1 Offset 0	22.88	ERP	0.194
LTE Band 5/10MMz/QPSK RB 1 Offset 0	21.24	ERP	0.133
LTE Band 5/10MMz/16QAM RB 1 Offset 49	22.92	ERP	0.196
LTE Band 13/5MMz/QPSK RB 1 Offset 24	18.88	ERP	0.077
LTE Band 13/5MMz/16QAM RB 1 Offset 24	20.36	ERP	0.109
LTE Band 13/10MMz/QPSK RB 1 Offset 49	19.66	ERP	0.092
LTE Band 13/10MMz/16QAM RB 1 Offset 49	20.22	ERP	0.105
LTE Band 17/5MMz/QPSK RB 1 Offset 24	17.47	ERP	0.056
LTE Band 17/5MMz/16QAM RB 1 Offset 24	19.29	ERP	0.085
LTE Band 17/10MMz/QPSK RB 1 Offset 49	18.61	ERP	0.073
LTE Band 17/10MMz/16QAM RB 1 Offset 0	19.22	ERP	0.084
LTE Band 25/1.4MMz/QPSK RB 1 Offset 0	26.12	EIRP	0.409
LTE Band 25/1.4MMz/16QAM RB 1 Offset 5	27.04	EIRP	0.506
LTE Band 25/3MMz/QPSK RB 1 Offset 0	26.14	EIRP	0.411
LTE Band 25/3MMz/16QAM RB 1 Offset 0	27.05	EIRP	0.507
LTE Band 25/5MMz/QPSK RB 1 Offset 0	25.88	EIRP	0.387
LTE Band 25/5MMz/16QAM RB 1 Offset 0	26.95	EIRP	0.495
LTE Band 25/10MMz/QPSK RB 1 Offset 0	25.51	EIRP	0.356
LTE Band 25/10MMz/16QAM RB 1 Offset 0	27.06	EIRP	0.508
LTE Band 25/15MMz/QPSK RB 1 Offset 0	25.82	EIRP	0.382
LTE Band 25/15MMz/16QAM RB 1 Offset 0	27.01	EIRP	0.502
LTE Band 25/20MMz/QPSK RB 1 Offset 0	25.81	EIRP	0.381
LTE Band 25/20MMz/16QAM RB 1 Offset 0	26.72	EIRP	0.470

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**1.2. Product Feature of Equipment Under Test**

The equipment under Test (Hereafter Called: EUT) is 7" Rugged Tablet supporting, GPRS / WCDMA / CDMA / LTE,

Wi-Fi 802.11abgn, Bluetooth with GPS and NFC features, and below is details of information.

Product Feature	
Product Name:	7-inch Rugged Tablet
Brand Name:	Pioneerpos
Marketing Name:	DASH 7" Robust Tablet PC
Model No.:	DASH7E1
Model Difference:	N/A
FCC ID	CPOD7E1-LTE
GPRS Operating Band(s)	GPRS 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 10 / Class 12
CDMA / EVDO	BC0 / BC1 / BC10
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 13 / 17 / 25
LTE Rel. Version	Rel.9
Wi-Fi Specification	802.11a/b/g/n
Bluetooth Version	V4.0 dual mode +EDR
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, Part 90S.

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-4..

### 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 and attenuator.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =14.2(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =14(dB)

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**2.5. Final Amplifier Voltage and Current Information:**

Test Mode	DC voltage (V)	DC current (mA)
GPRS 850	7.4V	283
GPRS 1900	7.4V	212
EDGE 850	7.4V	229
EDGE 1900	7.4V	253
WCDMA B2	7.4V	549
WCDMA B4	7.4V	481
WCDMA B5	7.4V	451
CDMA BC0	7.4V	968
CDMA BC1	7.4V	879
CDMA BC10	7.4V	967
LTE Band 2	7.4 V	1134
LTE Band 4	7.4 V	964
LTE Band 5	7.4 V	1021
LTE Band 13	7.4 V	949
LTE Band 17	7.4 V	965
LTE Band 25	7.4V	994

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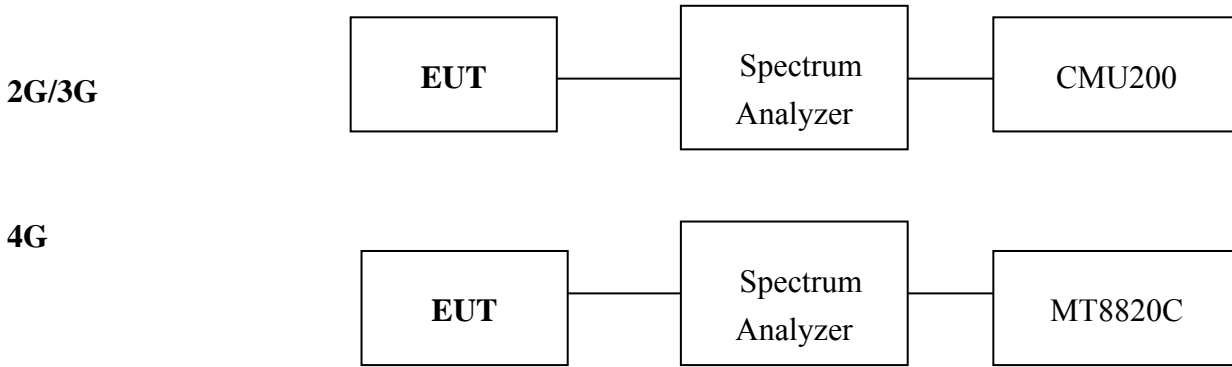
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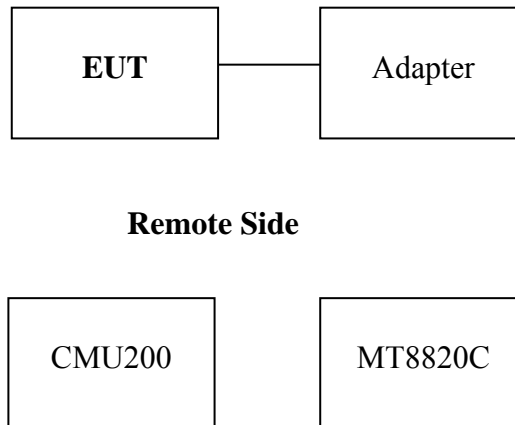
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## 2.6. Configuration of Tested System

**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

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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) §90.635	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) §90.691	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) §90.691(a)(1)(2)	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 §90.231	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
GPRS/EDGE 850	H-plan	H-plan
GPRS/EDGE 1900	E1-plan	E1-plan
WCDMA/HSPA Band II	E1-plan	E1-plan
WCDMA/HSPA Band IV	E1-plan	E1-plan
WCDMA/HSPA Band V	H-plan	H-plan
CDMA / EVDO BC 0	E2-plan	E2-plan
CDMA / EVDO BC 1	H-plan	H-plan
CDMA / EVDO BC 10	E2-plan	E2-plan
LTE Band 2 / 4 /25	H-plan	H-plan
LTE Band 5/ 13 /17	E2-plan	E2-plan

#### GPRS/EDGE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GPRS/EDGE 850
EIRP	512 to 810	512, 661, 810	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	GPRS/EDGE 850 GPRS/EDGE 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS/EDGE 850 GPRS/EDGE 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GPRS/EDGE 850 GPRS/EDGE 1900
CONDCUDED EMISSION	128 to 251 512 to 810	128, 251 512, 810	GPRS/EDGE 850 GPRS/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 251 512, 810	GPRS 850 GPRS 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 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	HSDPA Band II HSDPA Band IV HSDPA Band V

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CDMA/EVDO MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	1013 to 777 476 to 684	1013, 384, 777 476, 580, 684	CDMA/EVDO BC0 CDMA/EVDO BC10
EIRP	25 to 1175	25, 600, 1175	CDMA/EVDO BC1
FREQUENCY STABILITY	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
OCCUPIED BANDWIDTH	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA/EVDO BC0 CDMA/EVDO BC1 CDMA/EVDO BC10
PEAK TO AVERAGE RATIO	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA/EVDO BC0 CDMA/EVDO BC1 CDMA/EVDO BC10
BAND EDGE	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
CONDCUDED EMISSION	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
EMISSION MASK	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
RADIATED EMISSION	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10

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LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	1 RB/ 5 RB Offset

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offset
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offset
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offset
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offset
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM,	1 RB/ 5 RB Offset

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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 Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	20450 to 20600	20450, 20525, 20600	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 Offset Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDCUDEDTED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	20415 to 20635	20415, 20525, 20635	3MHz	16QAM,	1 RB/ 0 RB Offset

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offset
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM,	1 RB/ 24 RB Offset

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offset
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	16QAM,	1 RB/ 24 RB Offset

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	26096 to 26640	26365	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	27047 to 26683	27047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	27047 to 26683	27047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	26096 to 26640	26096, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMISSION	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	26096 to 26640	26096, 26365, 26640	10MHz	16QAM,	1 RB/ 0 RB Offset

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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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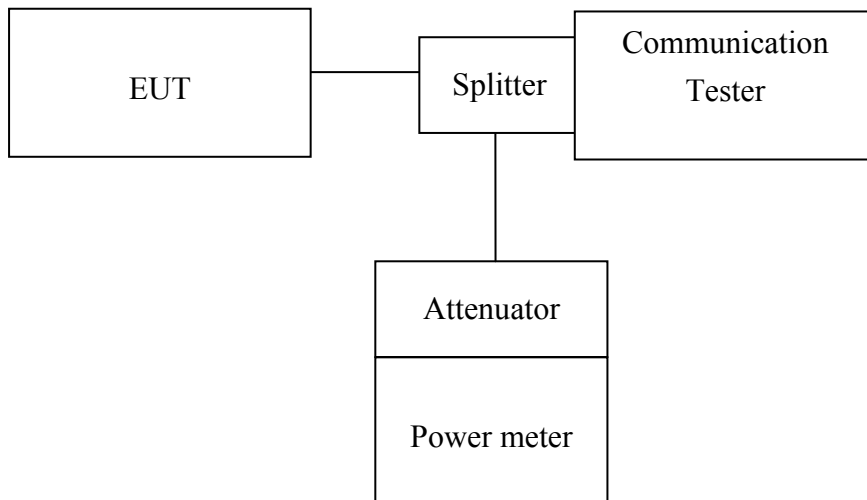
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## 6. RF CONDUCTED OUTPUT POWER MEASUREMENT

### 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
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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### 6.5. Measurement Result

#### RF Conducted Output Power

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

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)
GPRS 850	824.2	128	31.90	31.70	31.90	31.70
	836.6	190	31.80	31.70	31.80	31.70
	848.8	251	<b>32.20</b>	32.10	32.10	32.00
GPRS 1900	1850.2	512	29.20	29.00	29.10	28.90
	1880.0	661	<b>29.30</b>	29.20	29.20	29.00
	1909.8	810	29.20	29.00	29.00	28.80

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)
EDGE 850	824.2	128	<b>29.60</b>	26.50	29.40	26.30	29.30	26.20	29.30	26.20
	836.6	190	29.60	26.50	29.40	26.30	29.30	26.20	29.30	26.20
	848.8	251	29.60	26.50	29.40	26.30	29.30	26.20	29.30	26.20
EDGE 1900	1850.2	512	<b>28.40</b>	25.30	28.20	25.10	28.10	25.00	28.10	25.00
	1880.0	661	28.40	25.30	28.20	25.10	28.10	25.00	28.10	25.00
	1909.8	810	28.30	25.20	28.10	25.10	28.00	25.00	28.00	25.00

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**CDMA2000/EVDO Result:**

EUT Mode	Frequency (MHz)	CH	CDMA	EVDO
			Avg. Power (dBm)	Avg. Power (dBm)
BC0	824.7	1013	22.67	22.70
	836.52	384	<b>22.76</b>	<b>22.90</b>
	848.31	777	22.50	22.60
BC1	1851.25	25	<b>22.71</b>	<b>22.80</b>
	1880	600	22.57	22.70
	1908.75	1175	22.57	22.60
BC10	817.9	476	22.57	22.60
	820.5	580	22.57	22.60
	823.1	684	<b>22.61</b>	<b>22.70</b>

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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		WCDMA Band II		HSDPA Band II		HSUPA Band II	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1852.4	9262	<b>26.13</b>	22.84	26.05	22.21	25.65	21.62
1880.0	9400	26.06	22.74	25.94	22.13	25.47	21.45
1907.6	9538	26.08	22.81	25.95	22.19	25.41	21.59

EUT Mode		WCDMA Band IV		HSDPA Band IV		HSUPA Band IV	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1712.4	1312	26.28	22.97	26.17	22.45	25.69	22.00
1732.6	1412	26.21	22.93	<b>26.36</b>	22.57	25.93	22.08
1752.6	1513	26.22	22.86	26.35	22.41	25.87	22.02

EUT Mode		WCDMA Band V		HSDPA Band V		HSUPA Band V	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
826.4	4132	25.94	22.55	25.66	22.00	25.03	21.27
836.6	4183	<b>26.08</b>	22.63	25.91	22.12	25.38	21.61
846.6	4233	25.81	22.49	25.75	22.03	25.08	21.39

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

Cable loss offset: Low Band: 0.7dB, High Band: 1dB

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**LTE Result:**

**LTE Band 2**

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193	Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193
1.4	1	0	22.52	22.42	22.68	21.53	21.71	21.39
	1	5	22.64	22.46	22.71	21.83	21.42	21.72
	3	2	22.61	22.42	<b>22.72</b>	21.57	21.54	21.63
	6	0	21.70	21.51	21.81	20.64	20.55	20.92

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	22.67	22.41	22.64	21.77	21.88	21.87
	1	14	22.59	22.49	<b>22.79</b>	21.33	21.20	22.04
	8	4	21.72	21.55	21.75	20.62	20.46	20.73
	15	0	21.71	21.57	21.80	20.70	20.58	20.78

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	22.56	22.43	22.62	21.46	21.36	21.71
	1	24	22.61	22.34	<b>22.65</b>	21.31	21.27	21.59
	12	6	21.69	21.51	21.72	20.67	20.55	20.76
	25	0	21.65	21.49	21.70	20.61	20.44	20.74

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150	Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150
10	1	0	22.55	22.56	22.51	21.72	21.69	21.34
	1	49	22.67	22.41	<b>22.76</b>	21.53	21.78	21.59
	25	12	21.51	21.43	21.56	20.44	20.48	20.58
	50	0	21.38	21.34	21.44	20.35	20.39	20.44

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125	Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125
15	1	0	22.62	<b>22.76</b>	22.38	21.90	21.34	21.39
	1	74	22.65	22.46	22.66	21.64	21.19	21.96
	36	19	21.48	21.36	21.46	20.45	20.40	20.51
	75	0	21.47	21.41	21.33	20.47	20.39	20.39

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	22.74	22.69	22.51	21.56	21.87	21.20
	1	99	22.68	22.46	<b>22.77</b>	21.57	21.25	21.96
	50	25	21.52	21.59	21.52	20.56	20.50	20.50
	100	0	21.66	21.52	21.58	20.70	20.57	20.55

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**LTE Band 4**

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	22.67	22.42	22.69	21.41	21.48	22.14
	1	5	22.53	22.73	22.62	21.47	22.18	22.15
	3	2	22.44	<b>22.81</b>	22.63	21.46	21.93	21.82
	6	0	21.80	21.49	21.81	20.43	20.56	20.74

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	22.32	<b>22.78</b>	22.24	21.80	21.55	21.32
	1	14	22.67	22.66	22.62	21.83	21.86	21.98
	8	4	21.67	21.76	21.57	20.54	20.64	20.47
	15	0	21.66	21.76	21.46	20.57	20.81	20.46

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	22.64	<b>22.66</b>	22.54	21.63	21.34	21.55
	1	24	22.41	22.56	22.66	21.52	22.01	21.85
	12	6	21.55	21.84	21.72	20.57	20.48	20.68
	25	0	21.49	21.69	21.56	20.46	20.38	20.55

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	22.53	22.57	22.39	21.51	21.92	21.31
	1	49	22.58	22.53	<b>22.60</b>	21.91	21.77	21.31
	25	12	21.58	21.82	21.15	20.63	20.41	20.55
	50	0	21.47	21.80	21.48	20.51	20.44	20.45

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	22.70	22.71	<b>22.88</b>	21.50	21.73	21.88
	1	74	22.65	22.84	22.45	21.56	23.20	21.36
	36	19	21.60	21.61	21.59	20.61	20.65	20.53
	75	0	21.57	21.53	21.47	20.44	20.50	20.45

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	22.76	22.83	<b>22.86</b>	21.54	21.84	21.72
	1	99	22.69	22.64	22.56	21.44	21.50	21.41
	50	25	21.63	21.64	21.87	20.67	20.53	20.33
	100	0	21.65	21.65	21.42	20.73	20.55	20.75

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**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	22.17	22.39	22.14	21.15	21.48	21.57
	1	5	22.21	22.36	22.36	21.27	21.34	21.67
	3	2	22.25	<b>22.40</b>	22.37	21.27	21.55	21.51
	6	0	21.44	21.41	21.45	20.44	20.55	20.48

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	22.08	22.30	22.33	20.91	21.01	21.21
	1	14	22.27	<b>22.45</b>	22.30	21.23	21.59	21.29
	8	4	21.33	21.44	21.44	20.32	20.51	20.40
	15	0	21.34	21.44	21.46	20.22	20.40	20.37

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	22.32	<b>22.34</b>	22.32	21.10	21.63	21.47
	1	24	22.35	22.33	22.32	21.51	21.23	21.57
	12	6	21.32	21.51	21.63	20.24	20.49	20.65
	25	0	21.27	21.35	21.38	20.25	20.37	20.34

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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	22.44	22.21	22.38	20.94	21.64	21.29
	1	49	22.39	22.39	<b>22.55</b>	20.97	21.71	21.84
	25	12	21.30	21.44	21.51	20.20	20.31	20.29
	50	0	21.39	21.35	21.43	20.09	20.36	20.28

**LTE Band 13**

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	22.26	22.56	<b>22.61</b>	21.12	21.50	21.91
	1	24	22.53	22.42	22.21	21.77	21.22	21.01
	12	6	21.42	21.58	21.47	20.35	20.62	20.56
	25	0	21.40	21.61	21.49	20.39	20.53	20.54

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel 23230			Channel 23230		
10	1	0	22.23			21.37		
	1	49	22.18			21.30		
	25	12	<b>22.76</b>			20.76		
	50	0	21.43			20.43		

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**LTE Band 17**

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 23825	Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 23825
5	1	0	22.04	22.63	22.54	21.35	21.52	21.59
	1	24	<b>22.90</b>	22.38	22.10	21.50	21.36	21.09
	12	6	21.54	21.79	21.51	20.52	20.55	20.50
	25	0	21.50	21.47	21.36	20.53	20.77	20.37

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	22.31	22.30	<b>22.57</b>	21.35	21.79	21.53
	1	49	22.22	22.46	22.19	21.32	20.93	21.32
	25	12	21.60	21.66	21.52	20.59	20.70	20.47
	50	0	21.53	21.43	21.43	20.51	20.44	20.37

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**LTE Band 25**

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26683	Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26683
1.4	1	0	22.61	22.36	<b>22.71</b>	21.80	21.75	21.61
	1	5	22.59	22.52	22.52	21.82	21.70	21.70
	3	2	22.64	22.50	22.58	21.59	21.59	21.69
	6	0	21.62	21.50	21.70	20.65	20.68	20.73

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675	Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675
3	1	0	22.54	22.39	22.66	21.46	21.36	21.46
	1	14	22.62	22.51	<b>22.67</b>	21.55	21.35	21.67
	8	4	21.66	21.59	21.68	20.58	20.37	20.68
	15	0	21.55	21.49	21.67	20.60	20.49	20.69

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665	Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665
5	1	0	22.47	22.43	22.55	21.90	21.37	21.77
	1	24	22.55	22.47	<b>22.67</b>	21.41	21.26	21.56
	12	6	21.61	21.55	21.69	20.53	20.58	20.82
	25	0	21.41	21.44	21.73	20.44	20.45	20.69

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 226640	Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 226640
10	1	0	<b>22.66</b>	22.34	22.53	21.37	21.72	21.74
	1	49	22.44	22.27	22.60	21.30	21.32	21.74
	25	12	21.45	21.47	21.67	20.47	20.34	20.57
	50	0	21.41	21.34	21.51	20.39	20.32	20.50

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615	Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615
15	1	0	22.65	22.49	22.37	21.53	21.71	21.25
	1	74	22.52	22.39	<b>22.66</b>	21.71	21.68	21.61
	36	19	21.49	21.40	21.58	20.45	20.41	20.62
	75	0	21.37	21.32	21.45	20.48	20.30	20.46

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26140	Channel (Mid) 26365	Channel (High) 26590	Channel (Low) 26140	Channel (Mid) 26365	Channel (High) 26590
20	1	0	<b>22.74</b>	22.56	22.30	21.88	21.44	21.12
	1	99	22.46	22.19	22.73	21.60	21.68	21.89
	50	25	21.41	21.44	21.33	20.40	20.33	20.31
	100	0	21.44	21.32	21.50	20.42	20.39	20.44

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**HSDPA Release 8 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.**

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**Results:**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.06	22.99	23.00	20.3dBm – 25.7dBm	Pass
	2	22.77	22.63	22.68	20.3dBm – 25.7dBm	Pass
	3	22.60	22.51	22.51	19.8dBm – 25.7dBm	Pass
	4	22.56	22.55	22.57	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.19	23.18	23.05	20.3dBm – 25.7dBm	Pass
	2	22.90	22.82	22.73	20.3dBm – 25.7dBm	Pass
	3	22.73	22.70	22.56	19.8dBm – 25.7dBm	Pass
	4	22.78	22.74	22.62	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	22.77	22.88	22.68	20.3dBm – 25.7dBm	Pass
	2	22.48	22.52	22.36	20.3dBm – 25.7dBm	Pass
	3	22.31	22.40	22.19	19.8dBm – 25.7dBm	Pass
	4	22.36	22.44	22.55	19.8dBm – 25.7dBm	Pass

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**HSPA (HSDPA & HSUPA) Release 8 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	$\beta_c$	$\beta_a$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (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.**

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**Results:**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	22.80	22.67	22.72	18.8dBm – 25.7dBm	Pass
	2	20.86	20.75	20.76	16.8dBm – 25.7dBm	Pass
	3	21.77	21.73	21.75	17.8dBm – 25.7dBm	Pass
	4	20.91	20.81	20.84	16.8dBm – 25.7dBm	Pass
	5	22.66	22.50	22.61	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	22.93	22.86	22.77	18.8dBm – 25.7dBm	Pass
	2	20.99	20.94	20.81	16.8dBm – 25.7dBm	Pass
	3	21.90	21.92	21.80	17.8dBm – 25.7dBm	Pass
	4	21.04	21.00	20.89	16.8dBm – 25.7dBm	Pass
	5	22.79	22.69	22.66	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	22.51	22.56	22.40	18.8dBm – 25.7dBm	Pass
	2	20.57	20.64	20.44	16.8dBm – 25.7dBm	Pass
	3	21.48	21.62	21.43	17.8dBm – 25.7dBm	Pass
	4	20.62	20.70	20.52	16.8dBm – 25.7dBm	Pass
	5	22.37	22.39	22.29	18.8dBm – 25.7dBm	Pass

**WCDMA/HSDPA/HSUPA band II, IV, 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.

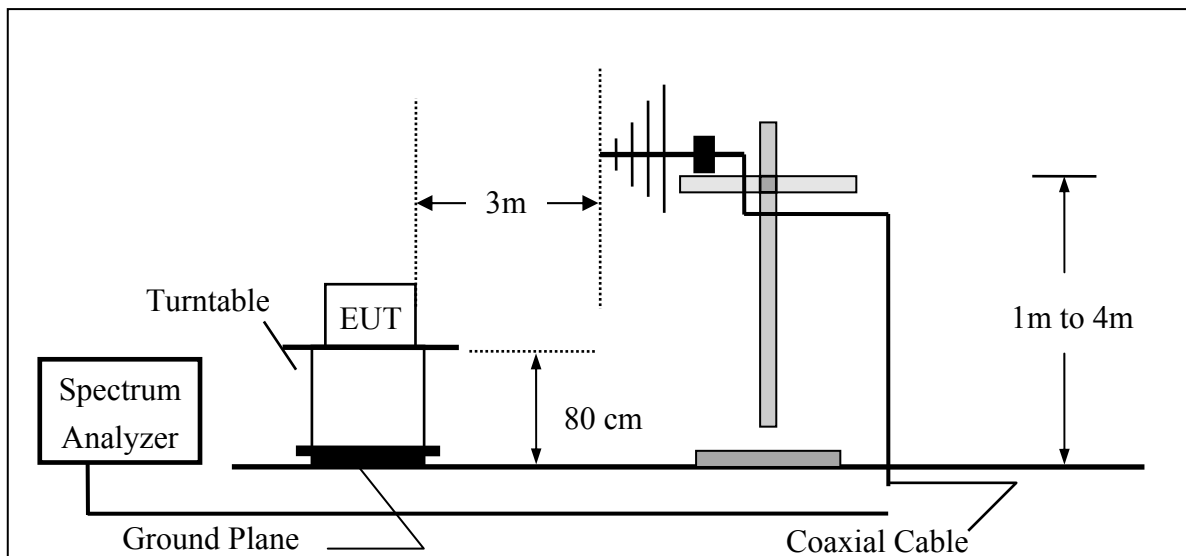
FCC 27, 50(d)(4) Portable stations are limited to 1W

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

Part 90 Subpart (R) Mobile stations are limited to 100W

### 7.2. Test SET-UP

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



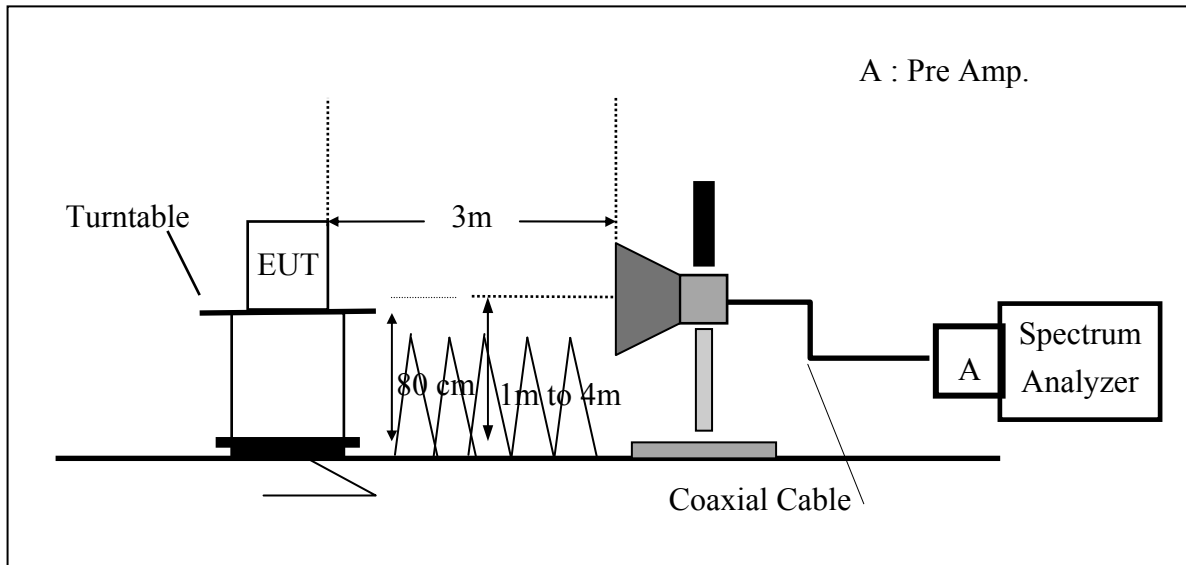
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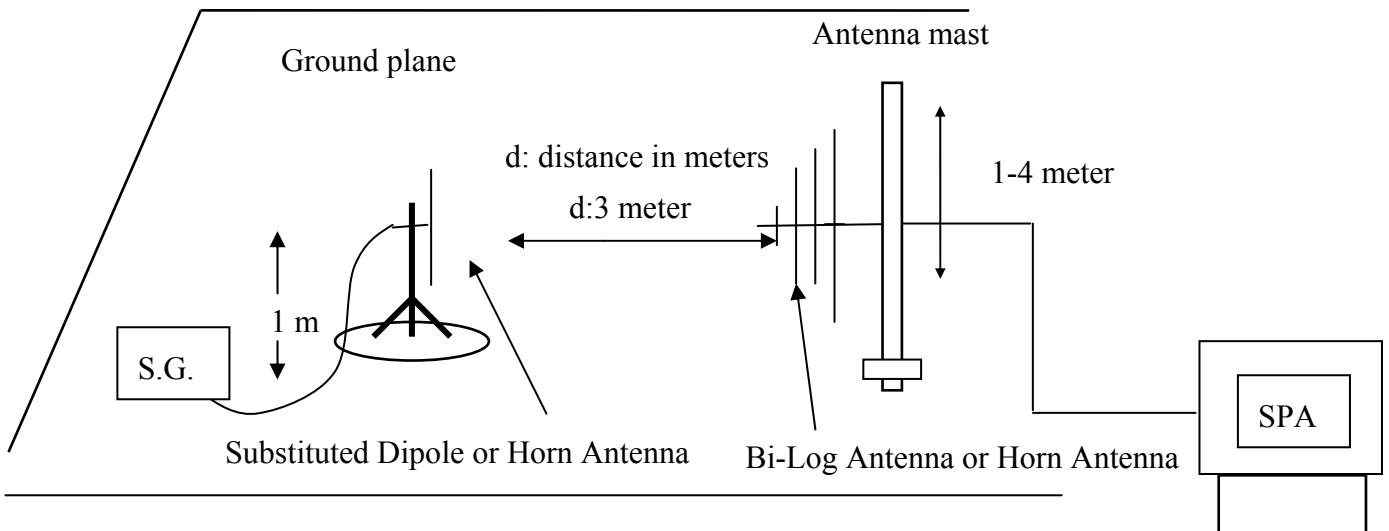
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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
GPRS 850	824.2	128	V	19.79	3.45	-2.94	20.31	38.45
			H	15.57	3.45	-2.94	16.09	38.45
	836.6	190	V	20.21	3.46	-2.97	20.70	38.45
			H	15.11	3.46	-2.97	15.60	38.45
	848.8	251	V	20.80	3.47	-3.01	<b>21.26</b>	38.45
			H	14.99	3.47	-3.01	15.46	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	19.10	3.45	-2.94	19.62	38.45
			H	15.00	3.45	-2.94	15.52	38.45
	836.6	190	V	19.62	3.46	-2.97	20.11	38.45
			H	14.50	3.46	-2.97	14.99	38.45
	848.8	251	V	20.39	3.47	-3.01	<b>20.85</b>	38.45
			H	14.32	3.47	-3.01	14.78	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
GPRS 1900	1850.2	512	V	25.41	4.84	-4.49	25.76	33.01
			H	22.98	4.84	-4.49	23.34	33.01
	1880.0	661	V	26.97	4.79	-4.53	<b>27.23</b>	33.01
			H	21.49	4.79	-4.53	21.76	33.01
	1909.8	810	V	25.76	4.74	-4.57	25.94	33.01
			H	21.45	4.74	-4.57	21.63	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	24.84	4.84	-4.49	25.20	33.01
			H	22.21	4.84	-4.49	22.57	33.01
	1880.0	661	V	26.61	4.79	-4.53	<b>26.88</b>	33.01
			H	20.81	4.79	-4.53	21.08	33.01
	1909.8	810	V	25.32	4.74	-4.57	25.50	33.01
			H	20.86	4.74	-4.57	21.04	33.01

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
WCDMA B2	1852.4	9262	V	23.26	4.84	-4.49	23.61	33.01
			H	18.56	4.84	-4.49	18.91	33.01
	1880.0	9400	V	24.38	4.79	-4.53	<b>24.65</b>	33.01
			H	16.75	4.79	-4.53	17.01	33.01
	1907.6	9538	V	23.25	4.75	-4.56	23.44	33.01
			H	17.34	4.75	-4.56	17.53	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
HSDPA B2	1852.4	9262	V	23.60	4.84	-4.49	23.95	33.01
			H	18.88	4.84	-4.49	19.23	33.01
	1880.0	9400	V	24.91	4.79	-4.53	<b>25.18</b>	33.01
			H	17.23	4.79	-4.53	17.50	33.01
	1907.6	9538	V	23.67	4.75	-4.56	23.86	33.01
			H	17.99	4.75	-4.56	18.18	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
HSUPA B2	1852.4	9262	V	23.01	4.84	-4.49	23.36	33.01
			H	18.17	4.84	-4.49	18.52	33.01
	1880.0	9400	V	23.94	4.79	-4.53	<b>24.21</b>	33.01
			H	16.15	4.79	-4.53	16.42	33.01
	1907.6	9538	V	22.95	4.75	-4.56	23.14	33.01
			H	17.02	4.75	-4.56	17.21	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	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	24.74	5.09	-4.29	25.53	33.01
			H	16.85	5.09	-4.29	17.64	33.01
	1732.6	1413	V	25.44	5.05	-4.31	<b>26.18</b>	33.01
			H	15.76	5.05	-4.31	16.49	33.01
	1752.6	1513	V	25.00	5.01	-4.37	25.64	33.01
			H	17.53	5.01	-4.37	18.17	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
HSDPA B4	1712.4	1312	V	25.15	5.09	-4.29	25.95	33.01
			H	17.66	5.09	-4.29	18.46	33.01
	1732.6	1413	V	25.69	5.05	-4.31	26.42	33.01
			H	16.80	5.05	-4.31	17.54	33.01
	1752.6	1513	V	26.15	5.01	-4.37	<b>26.79</b>	33.01
			H	18.47	5.01	-4.37	19.12	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
HSUPA B4	1712.4	1312	V	24.31	5.09	-4.29	25.10	33.01
			H	17.22	5.09	-4.29	18.01	33.01
	1732.6	1413	V	25.17	5.05	-4.31	<b>25.91</b>	33.01
			H	16.12	5.05	-4.31	16.86	33.01
	1752.6	1513	V	23.93	5.01	-4.37	24.57	33.01
			H	18.03	5.01	-4.37	18.68	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	16.89	3.46	-2.94	<b>17.40</b>	38.45
			H	12.96	3.46	-2.94	13.47	38.45
	836.6	4183	V	16.62	3.46	-2.97	17.11	38.45
			H	12.29	3.46	-2.97	12.78	38.45
	846.6	4233	V	16.88	3.47	-3.00	17.34	38.45
			H	12.34	3.47	-3.00	12.81	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	17.20	3.46	-2.94	<b>17.71</b>	38.45
			H	13.24	3.46	-2.94	13.75	38.45
	836.6	4183	V	16.88	3.46	-2.97	17.36	38.45
			H	12.59	3.46	-2.97	13.08	38.45
	846.6	4233	V	16.99	3.47	-3.00	17.46	38.45
			H	12.64	3.47	-3.00	13.10	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	16.69	3.46	-2.94	<b>17.20</b>	38.45
			H	12.55	3.46	-2.94	13.06	38.45
	836.6	4183	V	16.35	3.46	-2.97	16.84	38.45
			H	11.89	3.46	-2.97	12.37	38.45
	846.6	4233	V	16.64	3.47	-3.00	17.11	38.45
			H	12.00	3.47	-3.00	12.46	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	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC0	824.7	1013	V	13.99	3.45	-2.94	14.50	38.45
			H	15.65	3.45	-2.94	16.16	38.45
	836.52	384	V	13.91	3.46	-2.97	14.40	38.45
			H	16.87	3.46	-2.98	<b>17.35</b>	38.45
	848.31	777	V	12.08	3.47	-3.01	12.54	38.45
			H	16.17	3.47	-3.01	16.63	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
EVDO BC0	824.7	1013	V	13.24	3.46	-2.94	13.76	38.45
			H	14.47	3.46	-2.94	14.99	38.45
	836.52	384	V	12.89	3.46	-2.97	13.38	38.45
			H	16.18	3.46	-2.97	<b>16.67</b>	38.45
	848.31	777	V	10.64	3.47	-3.01	11.10	38.45
			H	15.27	3.47	-3.01	15.73	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
CDMA BC1	1851.25	25	V	23.01	4.84	-4.49	<b>23.36</b>	33.00
			H	22.45	4.84	-4.49	22.80	33.00
	1880.0	600	V	22.30	4.79	-4.53	22.57	33.00
			H	21.26	4.79	-4.53	21.53	33.00
	1908.75	1175	V	22.51	4.75	-4.56	22.69	33.00
			H	21.35	4.75	-4.56	21.53	33.00

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
EVDO BC1	1851.25	25	V	22.05	4.84	-4.49	<b>22.40</b>	33.00
			H	21.94	4.84	-4.49	22.30	33.00
	1880.0	600	V	21.57	4.79	-4.53	21.84	33.00
			H	20.88	4.79	-4.53	21.15	33.00
	1908.75	1175	V	21.92	4.75	-4.56	22.11	33.00
			H	20.59	4.75	-4.56	20.77	33.00

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	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC10	817.9	476	V	13.37	3.45	-2.92	13.91	50.00
			H	15.85	3.45	-2.92	16.39	50.00
	820.5	580	V	13.48	3.45	-2.93	14.01	50.00
			H	12.39	3.45	-2.93	12.92	50.00
	823.1	684	V	13.41	3.45	-2.93	13.93	50.00
			H	16.30	3.45	-2.93	<b>16.82</b>	50.00

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
EVDO BC10	817.9	476	V	12.46	3.45	-2.92	12.99	50.00
			H	15.03	3.45	-2.92	15.56	50.00
	820.5	580	V	12.13	3.45	-2.93	12.66	50.00
			H	11.51	3.45	-2.93	12.03	50.00
	823.1	684	V	12.42	3.45	-2.93	12.94	50.00
			H	15.13	3.45	-2.93	<b>15.65</b>	50.00

Remark :

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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
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	27.00	4.84	-4.49	27.36	33.01
			H	28.17	4.84	-4.49	<b>28.53</b>	33.01
	1880.0	18900	V	25.61	4.80	-4.52	25.89	33.01
			H	25.56	4.80	-4.52	25.83	33.01
	1909.3	19193	V	23.79	4.75	-4.56	23.97	33.01
			H	24.87	4.75	-4.56	25.05	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	27.04	4.84	-4.49	27.39	33.01
			H	27.81	4.84	-4.49	<b>28.17</b>	33.01
	1880.0	18900	V	25.63	4.79	-4.53	25.90	33.01
			H	25.76	4.79	-4.53	26.03	33.01
	1909.3	19193	V	23.33	4.75	-4.56	23.51	33.01
			H	24.38	4.74	-4.57	24.56	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	27.95	4.84	-4.49	28.31	33.01
			H	28.85	4.84	-4.49	<b>29.21</b>	33.01
	1880.0	18900	V	26.51	4.79	-4.53	26.78	33.01
			H	26.46	4.80	-4.52	26.74	33.01
	1909.3	19193	V	24.58	4.75	-4.56	24.77	33.01
			H	25.57	4.75	-4.56	25.76	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	27.80	4.84	-4.49	28.16	33.01
			H	28.93	4.84	-4.49	<b>29.29</b>	33.01
	1880.0	18900	V	26.56	4.79	-4.53	26.83	33.01
			H	26.67	4.79	-4.53	26.94	33.01
	1909.3	19193	V	24.07	4.74	-4.57	24.25	33.01
			H	25.09	4.75	-4.56	25.27	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
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	26.84	4.84	-4.49	27.20	33.01
			H	27.22	4.84	-4.49	<b>27.57</b>	33.01
	1880.0	18900	V	25.48	4.80	-4.52	25.76	33.01
			H	25.41	4.80	-4.52	25.69	33.01
	1908.5	19185	V	25.41	4.75	-4.56	25.60	33.01
			H	27.11	4.75	-4.56	27.30	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	26.78	4.84	-4.49	27.13	33.01
			H	27.49	4.84	-4.49	<b>27.84</b>	33.01
	1880.0	18900	V	25.74	4.79	-4.53	26.00	33.01
			H	25.87	4.79	-4.53	26.13	33.01
	1908.5	19185	V	24.66	4.75	-4.56	24.84	33.01
			H	25.86	4.74	-4.57	26.04	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	27.56	4.84	-4.49	27.91	33.01
			H	28.05	4.84	-4.49	<b>28.41</b>	33.01
	1880.0	18900	V	26.27	4.80	-4.52	26.54	33.01
			H	26.06	4.80	-4.52	26.33	33.01
	1908.5	19185	V	26.14	4.75	-4.56	26.32	33.01
			H	27.81	4.75	-4.56	28.00	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	27.36	4.84	-4.49	27.71	33.01
			H	28.21	4.84	-4.49	<b>28.56</b>	33.01
	1880.0	18900	V	26.39	4.79	-4.53	26.66	33.01
			H	26.57	4.79	-4.53	26.83	33.01
	1908.5	19185	V	25.31	4.75	-4.56	25.49	33.01
			H	26.56	4.75	-4.56	26.74	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
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	26.89	4.84	-4.49	27.25	33.01
			H	27.24	4.84	-4.49	<b>27.60</b>	33.01
	1880.0	18900	V	25.85	4.80	-4.52	26.12	33.01
			H	26.84	4.80	-4.52	27.11	33.01
	1907.5	19175	V	25.54	4.75	-4.56	25.74	33.01
			H	27.31	4.75	-4.56	27.50	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	26.37	4.84	-4.49	26.72	33.01
			H	27.16	4.84	-4.49	<b>27.50</b>	33.01
	1880.0	18900	V	25.85	4.79	-4.53	26.11	33.01
			H	26.94	4.79	-4.53	27.20	33.01
	1907.5	19175	V	24.95	4.74	-4.56	25.13	33.01
			H	26.00	4.75	-4.56	26.18	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	27.69	4.84	-4.49	28.05	33.01
			H	28.02	4.84	-4.49	<b>28.38</b>	33.01
	1880.0	18900	V	26.23	4.80	-4.52	26.51	33.01
			H	27.45	4.80	-4.52	27.73	33.01
	1907.5	19175	V	26.08	4.75	-4.56	26.28	33.01
			H	27.94	4.75	-4.56	28.14	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	27.28	4.84	-4.49	27.62	33.01
			H	28.06	4.84	-4.49	<b>28.40</b>	33.01
	1880.0	18900	V	26.52	4.79	-4.53	26.79	33.01
			H	27.55	4.79	-4.53	27.81	33.01
	1907.5	19175	V	25.68	4.75	-4.56	25.86	33.01
			H	26.64	4.74	-4.57	26.82	33.01

Remark :

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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
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	27.00	4.84	-4.49	27.36	33.01
			H	27.17	4.84	-4.49	27.53	33.01
	1880.0	18900	V	25.65	4.80	-4.52	25.93	33.01
			H	26.55	4.80	-4.52	26.83	33.01
	1905.0	19150	V	25.60	4.76	-4.55	25.81	33.01
			H	27.61	4.76	-4.55	<b>27.82</b>	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	24.99	4.83	-4.50	25.32	33.01
			H	26.43	4.83	-4.50	26.76	33.01
	1880.0	18900	V	24.02	4.79	-4.53	24.27	33.01
			H	26.74	4.79	-4.53	<b>27.00</b>	33.01
	1905.0	19150	V	23.98	4.75	-4.56	24.16	33.01
			H	26.32	4.75	-4.56	26.50	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	27.16	4.84	-4.49	27.52	33.01
			H	27.45	4.84	-4.49	27.80	33.01
	1880.0	18900	V	26.58	4.80	-4.52	26.86	33.01
			H	27.39	4.80	-4.52	27.67	33.01
	1905.0	19150	V	25.95	4.76	-4.55	26.16	33.01
			H	28.15	4.76	-4.55	<b>28.36</b>	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	25.50	4.83	-4.50	25.83	33.01
			H	26.99	4.83	-4.50	27.32	33.01
	1880.0	18900	V	24.48	4.79	-4.53	24.73	33.01
			H	27.20	4.79	-4.53	<b>27.46</b>	33.01
	1905.0	19150	V	24.43	4.75	-4.56	24.61	33.01
			H	26.73	4.74	-4.57	26.91	33.01

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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
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	26.86	4.84	-4.49	27.21	33.01
			H	27.35	4.84	-4.49	<b>27.70</b>	33.01
	1880.0	18900	V	25.65	4.80	-4.52	25.93	33.01
			H	26.00	4.81	-4.52	26.29	33.01
	1902.5	19125	V	25.70	4.77	-4.55	25.92	33.01
			H	26.66	4.77	-4.55	26.88	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	24.23	4.82	-4.51	24.54	33.01
			H	24.64	4.82	-4.50	24.96	33.01
	1880.0	18900	V	23.47	4.78	-4.53	23.72	33.01
			H	25.97	4.78	-4.53	<b>26.22</b>	33.01
	1902.5	19125	V	24.76	4.74	-4.57	24.94	33.01
			H	25.57	4.75	-4.56	25.76	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	27.24	4.84	-4.49	27.60	33.01
			H	27.59	4.84	-4.49	<b>27.95</b>	33.01
	1880.0	18900	V	26.28	4.80	-4.52	26.57	33.01
			H	26.72	4.81	-4.52	27.01	33.01
	1902.5	19125	V	26.01	4.77	-4.55	26.23	33.01
			H	27.14	4.77	-4.55	27.36	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	24.68	4.82	-4.50	25.00	33.01
			H	25.08	4.82	-4.51	25.39	33.01
	1880.0	18900	V	24.15	4.78	-4.53	24.40	33.01
			H	26.70	4.78	-4.53	<b>26.95</b>	33.01
	1902.5	19125	V	25.01	4.75	-4.56	25.19	33.01
			H	25.80	4.75	-4.56	25.99	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
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	27.01	4.84	-4.49	27.37	33.01
			H	27.02	4.84	-4.49	<b>27.38</b>	33.01
	1880.0	18900	V	25.24	4.81	-4.51	25.53	33.01
			H	25.83	4.81	-4.51	26.12	33.01
	1900.0	19100	V	25.99	4.78	-4.54	26.22	33.01
			H	26.82	4.78	-4.54	27.06	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	23.95	4.81	-4.51	24.25	33.01
			H	24.71	4.81	-4.51	25.01	33.01
	1880.0	18900	V	24.28	4.78	-4.54	24.52	33.01
			H	25.02	4.78	-4.54	25.26	33.01
	1900.0	19100	V	24.48	4.75	-4.56	24.66	33.01
			H	25.29	4.75	-4.56	<b>25.47</b>	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	26.95	4.84	-4.49	27.30	33.01
			H	27.16	4.84	-4.49	27.51	33.01
	1880.0	18900	V	25.73	4.81	-4.51	26.02	33.01
			H	26.38	4.81	-4.51	26.68	33.01
	1900.0	19100	V	26.42	4.78	-4.54	26.66	33.01
			H	27.31	4.78	-4.54	<b>27.54</b>	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	24.55	4.81	-4.51	24.85	33.01
			H	25.21	4.81	-4.51	25.51	33.01
	1880.0	18900	V	24.90	4.78	-4.54	25.14	33.01
			H	25.62	4.78	-4.54	<b>25.87</b>	33.01
	1900.0	19100	V	24.61	4.75	-4.56	24.79	33.01
			H	25.32	4.75	-4.56	25.51	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
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	26.32	5.09	-4.29	27.12	30.00
			H	24.04	5.09	-4.29	24.85	30.00
	1732.5	20175	V	26.70	5.05	-4.31	27.44	30.00
			H	24.82	5.05	-4.31	25.56	30.00
	1754.3	20393	V	27.65	5.01	-4.37	<b>28.29</b>	30.00
			H	25.74	5.01	-4.37	26.38	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	26.36	5.09	-4.29	27.16	30.00
			H	23.74	5.09	-4.29	24.54	30.00
	1732.5	20175	V	26.74	5.05	-4.31	27.47	30.00
			H	24.89	5.05	-4.31	25.62	30.00
	1754.3	20393	V	28.14	5.01	-4.38	<b>28.77</b>	30.00
			H	25.94	5.01	-4.37	26.57	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	26.65	5.09	-4.29	27.45	30.00
			H	25.42	5.09	-4.29	26.22	30.00
	1732.5	20175	V	27.44	5.05	-4.31	28.17	30.00
			H	25.49	5.05	-4.31	26.23	30.00
	1754.3	20393	V	28.24	5.01	-4.37	<b>28.88</b>	30.00
			H	26.27	5.01	-4.37	26.91	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	26.68	5.09	-4.29	27.48	30.00
			H	25.08	5.09	-4.29	25.88	30.00
	1732.5	20175	V	27.16	5.05	-4.31	27.90	30.00
			H	25.55	5.05	-4.31	26.29	30.00
	1754.3	20393	V	28.47	5.01	-4.37	<b>29.11</b>	30.00
			H	26.03	5.01	-4.37	26.66	30.00

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
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	25.75	5.09	-4.29	26.55	30.00
			H	23.75	5.09	-4.29	24.55	30.00
	1732.5	20175	V	26.18	5.05	-4.31	26.92	30.00
			H	24.32	5.05	-4.31	25.07	30.00
	1753.5	20385	V	26.95	5.01	-4.37	<b>27.60</b>	30.00
			H	25.91	5.01	-4.37	26.56	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	25.33	5.09	-4.29	26.13	30.00
			H	23.65	5.09	-4.29	24.44	30.00
	1732.5	20175	V	26.33	5.05	-4.32	27.06	30.00
			H	24.59	5.05	-4.32	25.32	30.00
	1753.5	20385	V	27.18	5.01	-4.37	<b>27.82</b>	30.00
			H	25.05	5.01	-4.37	25.69	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	26.33	5.09	-4.29	27.13	30.00
			H	24.34	5.09	-4.29	25.14	30.00
	1732.5	20175	V	26.76	5.05	-4.31	27.50	30.00
			H	24.90	5.05	-4.31	25.64	30.00
	1753.5	20385	V	27.35	5.01	-4.37	<b>27.99</b>	30.00
			H	26.22	5.02	-4.36	26.87	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	26.26	5.09	-4.29	27.06	30.00
			H	24.39	5.09	-4.29	25.19	30.00
	1732.5	20175	V	26.81	5.05	-4.32	27.55	30.00
			H	25.08	5.05	-4.32	25.81	30.00
	1753.5	20385	V	27.66	5.01	-4.38	<b>28.30</b>	30.00
			H	25.77	5.01	-4.37	26.41	30.00

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
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	26.37	5.09	-4.29	<b>27.18</b>	30.00
			H	24.76	5.09	-4.29	25.56	30.00
	1732.5	20175	V	25.12	5.05	-4.31	25.87	30.00
			H	24.96	5.05	-4.31	25.71	30.00
	1752.5	20375	V	26.01	5.02	-4.36	26.66	30.00
			H	26.01	5.02	-4.36	26.67	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	25.48	5.08	-4.29	26.27	30.00
			H	24.24	5.08	-4.29	25.03	30.00
	1732.5	20175	V	26.00	5.05	-4.32	<b>26.73</b>	30.00
			H	25.04	5.04	-4.32	25.77	30.00
	1752.5	20375	V	25.60	5.01	-4.37	26.24	30.00
			H	26.07	5.01	-4.37	26.70	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	26.35	5.09	-4.29	<b>27.15</b>	30.00
			H	25.04	5.09	-4.29	25.84	30.00
	1732.5	20175	V	25.54	5.05	-4.31	26.29	30.00
			H	25.37	5.05	-4.31	26.12	30.00
	1752.5	20375	V	26.49	5.02	-4.36	27.15	30.00
			H	26.49	5.02	-4.36	27.14	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	25.76	5.08	-4.29	26.55	30.00
			H	24.47	5.08	-4.29	25.26	30.00
	1732.5	20175	V	26.43	5.05	-4.32	<b>27.16</b>	30.00
			H	25.27	5.05	-4.32	26.00	30.00
	1752.5	20375	V	26.13	5.01	-4.37	26.76	30.00
			H	26.50	5.01	-4.37	27.14	30.00

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
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	26.28	5.09	-4.29	<b>27.08</b>	30.00
			H	24.65	5.09	-4.29	25.45	30.00
	1732.0	20175	V	25.69	5.06	-4.30	26.44	30.00
			H	25.36	5.06	-4.30	26.12	30.00
	1750.0	20350	V	25.77	5.02	-4.35	26.44	30.00
			H	26.00	5.03	-4.35	26.68	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	25.17	5.07	-4.30	25.95	30.00
			H	24.61	5.07	-4.30	25.39	30.00
	1732.0	20175	V	26.81	5.04	-4.33	<b>27.53</b>	30.00
			H	25.14	5.04	-4.32	25.85	30.00
	1750.0	20350	V	25.93	5.01	-4.37	26.57	30.00
			H	26.40	5.01	-4.37	27.04	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	26.62	5.09	-4.29	<b>27.42</b>	30.00
			H	24.99	5.09	-4.29	25.79	30.00
	1732.0	20175	V	25.92	5.06	-4.30	26.67	30.00
			H	25.59	5.06	-4.30	26.34	30.00
	1750.0	20350	V	26.11	5.03	-4.35	26.78	30.00
			H	26.36	5.03	-4.35	27.04	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	25.55	5.07	-4.30	26.33	30.00
			H	24.96	5.07	-4.30	25.73	30.00
	1732.0	20175	V	27.04	5.04	-4.33	<b>27.76</b>	30.00
			H	25.37	5.04	-4.32	26.09	30.00
	1750.0	20350	V	26.40	5.01	-4.37	27.04	30.00
			H	26.84	5.01	-4.37	27.48	30.00

**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	dBd	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	26.44	5.09	-4.29	<b>27.24</b>	30.00
			H	25.05	5.09	-4.29	25.85	30.00
	1732.5	20175	V	25.47	5.06	-4.30	26.23	30.00
			H	25.40	5.06	-4.30	26.16	30.00
	1747.5	20325	V	26.51	5.03	-4.34	27.21	30.00
			H	25.95	5.03	-4.33	26.65	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	25.47	5.07	-4.30	26.24	30.00
			H	25.49	5.06	-4.30	26.25	30.00
	1732.5	20175	V	26.57	5.04	-4.33	<b>27.28</b>	30.00
			H	25.85	5.04	-4.33	26.56	30.00
	1747.5	20325	V	25.77	5.01	-4.37	26.41	30.00
			H	26.18	5.01	-4.37	26.82	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	27.06	5.09	-4.29	<b>27.86</b>	30.00
			H	25.38	5.09	-4.29	26.18	30.00
	1732.5	20175	V	25.97	5.06	-4.30	26.73	30.00
			H	25.93	5.06	-4.30	26.69	30.00
	1747.5	20325	V	26.88	5.03	-4.34	27.58	30.00
			H	26.33	5.03	-4.33	27.03	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	25.95	5.07	-4.30	26.71	30.00
			H	25.96	5.06	-4.30	26.72	30.00
	1732.5	20175	V	27.07	5.04	-4.33	<b>27.78</b>	30.00
			H	26.32	5.04	-4.33	27.03	30.00
	1747.5	20325	V	26.44	5.01	-4.37	27.08	30.00
			H	26.90	5.01	-4.37	27.54	30.00

**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	dBd	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	26.33	5.09	-4.29	<b>27.13</b>	30.00
			H	24.66	5.09	-4.29	25.47	30.00
	1732.5	20175	V	25.13	5.07	-4.30	25.90	30.00
			H	25.25	5.07	-4.30	26.02	30.00
	1745.0	20300	V	26.06	5.04	-4.32	26.78	30.00
			H	24.87	5.04	-4.32	25.59	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	25.01	5.06	-4.30	25.76	30.00
			H	24.84	5.06	-4.30	25.59	30.00
	1732.5	20175	V	26.13	5.03	-4.34	<b>26.83</b>	30.00
			H	25.48	5.03	-4.34	26.18	30.00
	1745.0	20300	V	25.76	5.01	-4.37	26.40	30.00
			H	25.84	5.01	-4.37	26.48	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	26.84	5.09	-4.29	<b>27.64</b>	30.00
			H	25.03	5.09	-4.29	25.83	30.00
	1732.5	20175	V	25.63	5.07	-4.30	26.39	30.00
			H	25.71	5.07	-4.30	26.48	30.00
	1745.0	20300	V	26.62	5.04	-4.32	27.34	30.00
			H	25.30	5.04	-4.32	26.02	30.00
BAND 4 BW: 15M 16QAM RB: 1,99	1720.0	20050	V	25.66	5.06	-4.30	26.41	30.00
			H	25.32	5.06	-4.30	26.07	30.00
	1732.5	20175	V	26.63	5.03	-4.34	<b>27.33</b>	30.00
			H	25.78	5.03	-4.34	26.48	30.00
	1745.0	20300	V	26.42	5.01	-4.37	27.06	30.00
			H	26.50	5.01	-4.37	27.15	30.00

**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
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	9.89	3.45	-2.94	10.40	38.45
			H	17.67	3.45	-2.94	<b>18.18</b>	38.45
	836.5	20525	V	11.23	3.46	-2.97	11.72	38.45
			H	17.64	3.46	-2.97	18.13	38.45
	848.3	20643	V	10.17	3.47	-3.01	10.64	38.45
			H	15.45	3.47	-3.00	15.91	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	11.54	3.46	-2.94	12.05	38.45
			H	18.24	3.46	-2.94	<b>18.76</b>	38.45
	836.5	20525	V	10.91	3.46	-2.97	11.40	38.45
			H	17.21	3.46	-2.97	17.69	38.45
	848.3	20643	V	10.10	3.47	-3.01	10.56	38.45
			H	16.25	3.47	-3.01	16.71	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	12.56	3.46	-2.94	13.07	38.45
			H	20.33	3.46	-2.94	<b>20.85</b>	38.45
	836.5	20525	V	12.35	3.46	-2.97	12.84	38.45
			H	18.80	3.46	-2.97	19.29	38.45
	848.3	20643	V	11.64	3.47	-3.01	12.10	38.45
			H	17.82	3.47	-3.00	18.28	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	12.69	3.46	-2.94	13.21	38.45
			H	20.46	3.46	-2.94	<b>20.97</b>	38.45
	836.5	20525	V	12.16	3.46	-2.97	12.64	38.45
			H	18.55	3.46	-2.97	19.04	38.45
	848.3	20643	V	11.47	3.47	-3.01	11.93	38.45
			H	17.55	3.47	-3.01	18.01	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
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	10.32	3.45	-2.94	10.83	38.45
			H	20.68	3.45	-2.94	<b>21.19</b>	38.45
	836.5	20525	V	11.23	3.46	-2.97	11.72	38.45
			H	20.24	3.46	-2.97	20.73	38.45
	847.5	20635	V	10.02	3.47	-3.00	10.49	38.45
			H	19.44	3.47	-3.00	19.91	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	11.12	3.46	-2.94	11.63	38.45
			H	20.45	3.46	-2.94	<b>20.96</b>	38.45
	836.5	20525	V	10.60	3.46	-2.98	11.08	38.45
			H	20.06	3.46	-2.98	20.55	38.45
	847.5	20635	V	4.88	3.47	-3.01	5.34	38.45
			H	19.09	3.47	-3.01	19.55	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	11.99	3.45	-2.94	12.51	38.45
			H	22.01	3.45	-2.94	22.53	38.45
	836.5	20525	V	12.87	3.46	-2.97	13.36	38.45
			H	21.80	3.46	-2.97	22.29	38.45
	847.5	20635	V	6.52	3.47	-3.00	6.99	38.45
			H	22.61	3.47	-3.00	<b>23.08</b>	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	12.61	3.46	-2.95	13.12	38.45
			H	21.99	3.46	-2.94	<b>22.50</b>	38.45
	836.5	20525	V	11.96	3.46	-2.98	12.45	38.45
			H	21.65	3.46	-2.98	22.14	38.45
	847.5	20635	V	6.71	3.47	-3.01	7.17	38.45
			H	20.54	3.47	-3.00	21.01	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
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	12.21	3.45	-2.94	12.73	38.45
			H	20.58	3.45	-2.94	<b>21.10</b>	38.45
	836.5	20525	V	13.48	3.46	-2.97	13.97	38.45
			H	19.80	3.46	-2.97	20.29	38.45
	846.5	20625	V	13.48	3.46	-2.99	13.95	38.45
			H	20.13	3.46	-2.99	20.61	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	13.13	3.46	-2.95	13.64	38.45
			H	19.86	3.46	-2.95	20.37	38.45
	836.5	20525	V	12.76	3.46	-2.98	13.24	38.45
			H	20.06	3.46	-2.98	<b>20.54</b>	38.45
	846.5	20625	V	11.58	3.47	-3.01	12.05	38.45
			H	19.01	3.47	-3.01	19.47	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	14.17	3.45	-2.94	14.68	38.45
			H	21.78	3.45	-2.94	22.29	38.45
	836.5	20525	V	15.84	3.46	-2.97	16.34	38.45
			H	21.78	3.46	-2.97	22.28	38.45
	846.5	20625	V	14.93	3.46	-2.99	15.40	38.45
			H	22.41	3.46	-2.99	<b>22.88</b>	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	16.33	3.46	-2.95	16.84	38.45
			H	21.96	3.46	-2.95	22.46	38.45
	836.5	20525	V	14.83	3.46	-2.98	15.31	38.45
			H	21.68	3.46	-2.98	22.16	38.45
	846.5	20625	V	13.43	3.47	-3.01	13.89	38.45
			H	22.14	3.47	-3.01	<b>22.61</b>	38.45

**Remark :**

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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
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	12.77	3.46	-2.94	13.29	38.45
			H	20.73	3.46	-2.94	<b>21.24</b>	38.45
	836.5	20525	V	13.48	3.46	-2.96	13.98	38.45
			H	20.53	3.46	-2.96	21.03	38.45
	844.0	20600	V	12.98	3.46	-2.98	13.46	38.45
			H	20.45	3.46	-2.98	20.93	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	14.50	3.46	-2.97	14.99	38.45
			H	20.19	3.46	-2.97	20.68	38.45
	836.5	20525	V	13.38	3.46	-2.99	13.85	38.45
			H	20.56	3.46	-2.98	<b>21.04</b>	38.45
	844.0	20600	V	12.82	3.47	-3.00	13.28	38.45
			H	19.53	3.47	-3.01	20.00	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	14.02	3.46	-2.94	14.54	38.45
			H	21.89	3.45	-2.94	<b>22.41</b>	38.45
	836.5	20525	V	15.63	3.46	-2.96	16.12	38.45
			H	21.68	3.46	-2.96	22.18	38.45
	844.0	20600	V	15.99	3.46	-2.98	16.47	38.45
			H	21.83	3.46	-2.98	22.31	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	15.90	3.46	-2.96	16.39	38.45
			H	22.43	3.46	-2.96	<b>22.92</b>	38.45
	836.5	20525	V	14.65	3.46	-2.99	15.13	38.45
			H	22.03	3.46	-2.99	22.51	38.45
	844.0	20600	V	13.92	3.47	-3.01	14.39	38.45
			H	21.48	3.47	-3.00	21.94	38.45

**Remark :**

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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
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	13.44	3.37	-2.77	14.04	34.77
			H	17.58	3.37	-2.77	<b>18.18</b>	34.77
	782.0	23230	V	12.98	3.37	-2.77	13.58	34.77
			H	17.52	3.38	-2.78	18.12	34.77
	784.5	23255	V	12.87	3.38	-2.78	13.47	34.77
			H	17.48	3.38	-2.79	18.08	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	12.76	3.38	-2.78	13.36	34.77
			H	17.53	3.38	-2.78	18.13	34.77
	782.0	23230	V	12.42	3.39	-2.79	13.01	34.77
			H	17.65	3.39	-2.79	18.25	34.77
	784.5	23255	V	12.66	3.40	-2.80	13.26	34.77
			H	18.28	3.40	-2.80	<b>18.88</b>	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	14.96	3.37	-2.77	15.56	34.77
			H	18.88	3.37	-2.77	19.48	34.77
	782.0	23230	V	15.23	3.37	-2.77	15.83	34.77
			H	19.71	3.38	-2.78	<b>20.31</b>	34.77
	784.5	23255	V	13.96	3.38	-2.78	14.55	34.77
			H	19.19	3.39	-2.79	19.79	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	14.21	3.38	-2.78	14.80	34.77
			H	19.21	3.38	-2.78	19.81	34.77
	782.0	23230	V	14.53	3.39	-2.79	15.13	34.77
			H	19.76	3.39	-2.79	<b>20.36</b>	34.77
	784.5	23255	V	14.05	3.40	-2.80	14.64	34.77
			H	19.73	3.40	-2.80	20.32	34.77

**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
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	13.63	3.37	-2.77	14.23	34.77
			H	17.60	3.37	-2.77	<b>18.20</b>	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	15.48	3.37	-2.77	16.08	34.77
			H	19.06	3.37	-2.77	<b>19.66</b>	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	12.49	3.40	-2.80	13.09	34.77
			H	18.26	3.40	-2.80	<b>18.85</b>	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	13.91	3.40	-2.80	14.51	34.77
			H	19.63	3.40	-2.80	<b>20.22</b>	34.77

**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
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	13.86	3.37	-2.60	14.63	34.77
			H	16.45	3.37	-2.60	<b>17.22</b>	34.77
	710.0	23790	V	13.70	3.37	-2.60	14.47	34.77
			H	16.20	3.37	-2.60	16.97	34.77
	713.5	23825	V	12.81	3.36	-2.60	13.57	34.77
			H	16.44	3.36	-2.60	17.20	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	12.52	3.37	-2.60	13.28	34.77
			H	15.49	3.37	-2.60	16.26	34.77
	710.0	23790	V	12.67	3.37	-2.60	13.43	34.77
			H	16.71	3.36	-2.60	<b>17.47</b>	34.77
	713.5	23825	V	12.87	3.35	-2.61	13.62	34.77
			H	16.68	3.35	-2.61	17.42	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	15.70	3.37	-2.60	16.47	34.77
			H	18.30	3.37	-2.60	<b>19.07</b>	34.77
	710.0	23790	V	15.33	3.37	-2.60	16.10	34.77
			H	17.51	3.37	-2.60	18.27	34.77
	713.5	23825	V	14.28	3.36	-2.60	15.04	34.77
			H	18.08	3.36	-2.60	18.84	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	13.93	3.37	-2.60	14.70	34.77
			H	17.14	3.37	-2.60	17.91	34.77
	710.0	23790	V	13.93	3.37	-2.60	14.70	34.77
			H	17.73	3.36	-2.60	18.48	34.77
	713.5	23825	V	14.39	3.35	-2.61	15.13	34.77
			H	18.54	3.35	-2.61	<b>19.29</b>	34.77

**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
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	14.06	3.37	-2.60	14.83	34.77
			H	16.80	3.37	-2.60	17.57	34.77
	710.0	23790	V	13.55	3.37	-2.60	14.32	34.77
			H	17.09	3.37	-2.60	<b>17.86</b>	34.77
	711.0	23800	V	13.94	3.37	-2.60	14.70	34.77
			H	16.72	3.37	-2.60	17.49	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	12.71	3.36	-2.61	13.46	34.77
			H	17.29	3.36	-2.61	18.03	34.77
	710.0	23790	V	12.89	3.35	-2.61	13.64	34.77
			H	16.46	3.35	-2.61	17.21	34.77
	711.0	23800	V	12.74	3.35	-2.61	13.48	34.77
			H	17.87	3.35	-2.61	<b>18.61</b>	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	15.81	3.37	-2.60	16.57	34.77
			H	18.45	3.37	-2.60	19.22	34.77
	710.0	23790	V	15.75	3.37	-2.60	16.52	34.77
			H	18.45	3.37	-2.60	<b>19.22</b>	34.77
	711.0	23800	V	15.36	3.37	-2.60	16.13	34.77
			H	18.14	3.37	-2.60	18.91	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	14.36	3.36	-2.60	15.11	34.77
			H	18.46	3.36	-2.61	<b>19.21</b>	34.77
	710.0	23790	V	14.51	3.35	-2.61	15.26	34.77
			H	18.35	3.35	-2.61	19.10	34.77
	711.0	23800	V	14.63	3.35	-2.61	15.37	34.77
			H	18.32	3.35	-2.61	19.06	34.77

**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
BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	25.76	4.84	-4.49	<b>26.12</b>	33.00
			H	25.40	4.84	-4.49	25.76	33.00
	1882.5	26365	V	23.95	4.79	-4.53	24.22	33.00
			H	23.57	4.79	-4.53	23.83	33.00
	1914.3	26683	V	22.50	4.74	-4.57	22.66	33.00
			H	21.74	4.74	-4.57	21.91	33.00
BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	25.69	4.84	-4.49	<b>26.05</b>	33.00
			H	24.97	4.84	-4.49	25.33	33.00
	1882.5	26365	V	24.25	4.79	-4.53	24.51	33.00
			H	23.73	4.79	-4.53	23.99	33.00
	1914.3	26683	V	22.63	4.74	-4.57	22.79	33.00
			H	21.96	4.74	-4.57	22.12	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	26.67	4.84	-4.49	<b>27.03</b>	33.00
			H	25.91	4.84	-4.49	26.26	33.00
	1882.5	26365	V	25.69	4.79	-4.53	25.96	33.00
			H	25.27	4.79	-4.53	25.53	33.00
	1914.3	26683	V	22.95	4.74	-4.57	23.11	33.00
			H	22.25	4.74	-4.57	22.42	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	26.69	4.84	-4.49	<b>27.04</b>	33.00
			H	26.00	4.84	-4.49	26.35	33.00
	1882.5	26365	V	25.56	4.79	-4.53	25.83	33.00
			H	25.55	4.79	-4.53	25.81	33.00
	1914.3	26683	V	23.18	4.74	-4.57	23.35	33.00
			H	22.68	4.74	-4.57	22.84	33.00

**Remark :**

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

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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
BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	25.78	4.84	-4.49	<b>26.14</b>	33.00
			H	24.79	4.84	-4.49	25.15	33.00
	1882.5	26365	V	24.15	4.79	-4.53	24.42	33.00
			H	23.53	4.79	-4.53	23.80	33.00
	1913.5	26675	V	22.27	4.74	-4.57	22.44	33.00
			H	21.61	4.74	-4.57	21.78	33.00
BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	25.62	4.84	-4.49	<b>25.98</b>	33.00
			H	25.02	4.84	-4.49	25.37	33.00
	1882.5	26365	V	23.75	4.79	-4.53	24.01	33.00
			H	24.06	4.79	-4.53	24.32	33.00
	1913.5	26675	V	22.46	4.74	-4.57	22.62	33.00
			H	22.08	4.74	-4.57	22.24	33.00
BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	26.69	4.84	-4.49	<b>27.05</b>	33.00
			H	25.71	4.84	-4.49	26.07	33.00
	1882.5	26365	V	25.77	4.79	-4.53	26.03	33.00
			H	25.17	4.79	-4.53	25.43	33.00
	1913.5	26675	V	22.91	4.74	-4.57	23.08	33.00
			H	22.22	4.74	-4.57	22.39	33.00
BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	26.55	4.84	-4.49	<b>26.90</b>	33.00
			H	25.82	4.84	-4.49	26.17	33.00
	1882.5	26365	V	25.30	4.79	-4.53	25.56	33.00
			H	25.48	4.79	-4.53	25.74	33.00
	1913.5	26675	V	23.13	4.74	-4.57	23.29	33.00
			H	22.69	4.74	-4.57	22.85	33.00

**Remark :**

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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
BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	25.52	4.84	-4.49	<b>25.88</b>	33.00
			H	24.69	4.84	-4.49	25.05	33.00
	1882.5	26365	V	24.20	4.79	-4.53	24.47	33.00
			H	23.41	4.79	-4.53	23.68	33.00
	1912.5	26665	V	22.69	4.74	-4.57	22.87	33.00
			H	21.83	4.74	-4.57	22.01	33.00
BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	24.92	4.84	-4.49	<b>25.26</b>	33.00
			H	24.41	4.84	-4.49	24.76	33.00
	1882.5	26365	V	23.47	4.79	-4.53	23.73	33.00
			H	24.18	4.79	-4.53	24.44	33.00
	1912.5	26665	V	22.39	4.74	-4.57	22.55	33.00
			H	21.92	4.74	-4.57	22.08	33.00
BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	26.60	4.84	-4.49	<b>26.95</b>	33.00
			H	25.74	4.84	-4.49	26.10	33.00
	1882.5	26365	V	25.17	4.79	-4.53	25.44	33.00
			H	24.34	4.79	-4.53	24.60	33.00
	1912.5	26665	V	23.89	4.74	-4.57	24.07	33.00
			H	23.01	4.74	-4.57	23.19	33.00
BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	26.48	4.84	-4.49	<b>26.82</b>	33.00
			H	26.01	4.84	-4.49	26.35	33.00
	1882.5	26365	V	25.15	4.79	-4.53	25.40	33.00
			H	25.27	4.79	-4.53	25.52	33.00
	1912.5	26665	V	23.14	4.74	-4.57	23.30	33.00
			H	22.65	4.74	-4.57	22.82	33.00

**Remark :**

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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
BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	25.15	4.84	-4.49	<b>25.51</b>	33.00
			H	25.03	4.84	-4.49	25.39	33.00
	1882.5	26365	V	24.14	4.80	-4.52	24.41	33.00
			H	22.41	4.80	-4.52	22.68	33.00
	1910.0	26640	V	23.41	4.75	-4.56	23.60	33.00
			H	22.70	4.75	-4.56	22.89	33.00
BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	24.41	4.83	-4.50	<b>24.74</b>	33.00
			H	24.26	4.83	-4.50	24.59	33.00
	1882.5	26365	V	23.62	4.78	-4.53	23.87	33.00
			H	24.09	4.78	-4.53	24.34	33.00
	1910.0	26640	V	22.00	4.74	-4.57	22.17	33.00
			H	21.67	4.74	-4.57	21.84	33.00
BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	26.71	4.84	-4.49	<b>27.06</b>	33.00
			H	26.57	4.84	-4.49	26.93	33.00
	1882.5	26365	V	25.04	4.80	-4.52	25.31	33.00
			H	23.29	4.80	-4.52	23.57	33.00
	1910.0	26640	V	24.92	4.75	-4.56	25.11	33.00
			H	23.78	4.75	-4.56	23.97	33.00
BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	25.70	4.83	-4.50	<b>26.03</b>	33.00
			H	25.55	4.83	-4.50	25.88	33.00
	1882.5	26365	V	24.57	4.78	-4.53	24.82	33.00
			H	25.67	4.78	-4.53	25.92	33.00
	1910.0	26640	V	22.82	4.74	-4.57	22.99	33.00
			H	22.23	4.74	-4.57	22.39	33.00

**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
BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	25.47	4.84	-4.49	<b>25.82</b>	33.00
			H	24.85	4.84	-4.49	25.21	33.00
	1882.5	26365	V	24.11	4.80	-4.52	24.39	33.00
			H	22.66	4.80	-4.52	22.95	33.00
	1907.5	26615	V	24.38	4.76	-4.55	24.58	33.00
			H	24.03	4.76	-4.55	24.24	33.00
BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	24.23	4.82	-4.50	24.55	33.00
			H	21.83	4.82	-4.50	22.14	33.00
	1882.5	26365	V	24.00	4.78	-4.54	24.24	33.00
			H	24.42	4.78	-4.54	<b>24.66</b>	33.00
	1907.5	26615	V	21.95	4.74	-4.57	22.11	33.00
			H	21.74	4.74	-4.57	21.90	33.00
BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	26.66	4.84	-4.49	<b>27.01</b>	33.00
			H	25.87	4.84	-4.49	26.22	33.00
	1882.5	26365	V	25.14	4.80	-4.52	25.42	33.00
			H	23.55	4.80	-4.52	23.83	33.00
	1907.5	26615	V	25.79	4.76	-4.55	26.00	33.00
			H	24.86	4.76	-4.55	25.07	33.00
BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	25.35	4.82	-4.50	25.66	33.00
			H	23.00	4.82	-4.50	23.32	33.00
	1882.5	26365	V	25.04	4.78	-4.54	25.28	33.00
			H	26.09	4.78	-4.54	<b>26.33</b>	33.00
	1907.5	26615	V	22.78	4.74	-4.57	22.95	33.00
			H	22.44	4.74	-4.57	22.60	33.00

**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
BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	25.45	4.84	-4.49	<b>25.81</b>	33.00
			H	24.97	4.84	-4.49	25.32	33.00
	1882.5	26365	V	23.55	4.81	-4.52	23.84	33.00
			H	22.13	4.81	-4.52	22.42	33.00
	1905.0	26590	V	24.11	4.77	-4.55	24.33	33.00
			H	23.87	4.77	-4.55	24.09	33.00
BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	23.62	4.81	-4.51	23.92	33.00
			H	21.91	4.81	-4.51	22.22	33.00
	1882.5	26365	V	23.96	4.78	-4.54	24.19	33.00
			H	24.63	4.78	-4.54	<b>24.86</b>	33.00
	1905.0	26590	V	21.94	4.74	-4.57	22.10	33.00
			H	21.64	4.74	-4.57	21.81	33.00
BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	26.37	4.84	-4.49	<b>26.72</b>	33.00
			H	25.74	4.84	-4.49	26.10	33.00
	1882.5	26365	V	24.75	4.80	-4.52	25.04	33.00
			H	23.37	4.81	-4.52	23.66	33.00
	1905.0	26590	V	25.15	4.77	-4.55	25.37	33.00
			H	24.85	4.77	-4.55	25.07	33.00
BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	24.68	4.81	-4.51	24.98	33.00
			H	22.58	4.81	-4.51	22.88	33.00
	1882.5	26365	V	24.56	4.78	-4.54	24.79	33.00
			H	25.17	4.78	-4.54	<b>25.41</b>	33.00
	1905.0	26590	V	22.50	4.74	-4.57	22.67	33.00
			H	22.20	4.74	-4.57	22.36	33.00

**Remark :**

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

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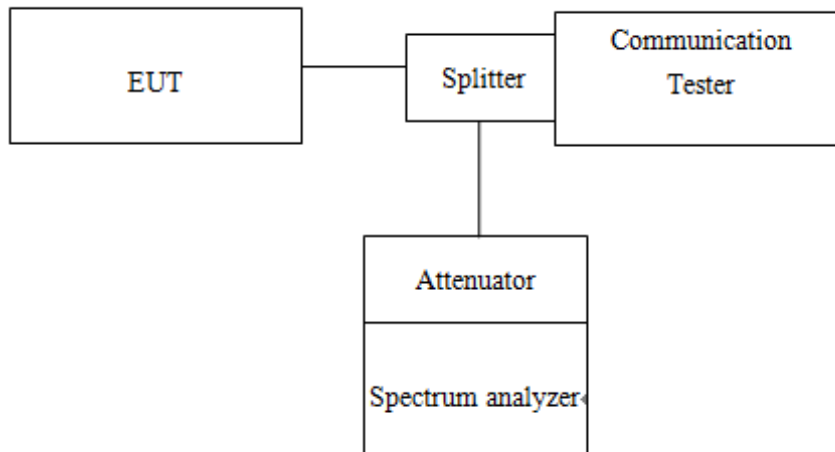
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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 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 (kHz)	
		GPRS 850	EDGE 850
824.20	128	238.554	243.513
836.60	190	<b>245.992</b>	<b>248.284</b>
848.80	251	243.248	247.056

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	244.577	244.059
1880.00	661	244.126	<b>244.529</b>
1909.80	810	<b>246.615</b>	242.014

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1613	<b>4.1702</b>	<b>4.1704</b>
1880.00	9400	4.1519	4.1511	4.1573
1909.80	9538	<b>4.1651</b>	4.1625	4.1573

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.1465	4.1499	4.1584
1732.6	1413	4.1514	<b>4.1703</b>	<b>4.1796</b>
1752.6	1513	<b>4.1704</b>	4.1652	4.1715

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Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1398	4.1469	4.1365
836.60	4183	<b>4.1555</b>	<b>4.1520</b>	4.1336
846.60	4233	4.1538	4.1511	<b>4.1445</b>

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC0	EVDO BC0
824.7	1013	1.2649	1.2680
836.52	384	<b>1.2682</b>	1.2710
848.31	777	1.2674	<b>1.2777</b>

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC1	EVDO BC1
1851.25	25	1.2643	<b>1.2738</b>
1880.00	600	<b>1.2672</b>	1.2667
1908.75	1175	1.2630	1.2705

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC10	EVDO BC10
817.9	476	<b>1.2678</b>	<b>1.2728</b>
820.5	580	1.2653	1.2634
823.1	684	1.2672	1.2691

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.0922	1.0962	1851.5	18615	2.7042	2.7012
1880.0	18900	1.0921	1.0954	1880.0	18900	<b>2.7072</b>	<b>2.7113</b>
1909.3	19193	<b>1.0946</b>	<b>1.1046</b>	1908.5	19185	2.7071	2.7046

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	<b>4.5081</b>	<b>4.5111</b>	1855.0	18650	<b>8.9898</b>	8.9715
1880.0	18900	4.4963	4.5061	1880.0	18900	8.9800	8.9636
1907.5	19175	4.4963	4.4950	1905.0	19150	8.9782	<b>8.9976</b>

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	13.3674	13.4353	1860.0	18700	17.8381	17.8848
1880.0	18900	13.4542	13.4505	1880.0	18900	<b>17.9301</b>	17.9451
1902.5	19125	<b>13.4991</b>	<b>13.5175</b>	1900.0	19100	17.9029	<b>17.9676</b>

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.0968	1.0990	1711.5	19965	2.7090	<b>2.7124</b>
1732.5	20175	1.0995	1.0995	1732.5	20175	<b>2.7166</b>	2.7055
1754.3	20393	<b>1.1013</b>	<b>1.1021</b>	1753.5	20385	2.7078	2.7026

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	4.4999	4.5018	1715.0	20000	8.9550	8.9524
1732.5	20175	4.4981	4.4981	1732.5	20175	<b>8.9988</b>	<b>8.9937</b>
1752.5	20375	<b>4.5027</b>	<b>4.5140</b>	1750.0	20350	8.9600	8.9847

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	13.4011	13.4117	1720.0	20050	17.8527	17.8984
1732.5	20175	<b>13.4479</b>	13.4519	1732.5	20175	<b>17.9017</b>	17.8698
1747.5	20325	13.4330	<b>13.4763</b>	1745.0	20300	17.8863	<b>17.9502</b>

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.0969	<b>1.1109</b>	825.5	20415	<b>2.7076</b>	<b>2.7082</b>
836.5	20525	1.1007	1.0994	836.5	20525	2.7016	2.6962
848.3	20643	<b>1.0970</b>	1.1012	847.5	20635	2.7068	2.6986

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
826.5	20425	4.4858	4.4929	829.0	20450	8.9891	8.9413
836.5	20525	4.4779	<b>4.4997</b>	836.5	20525	<b>8.9962</b>	<b>8.9602</b>
846.5	20625	<b>4.4794</b>	4.4915	844.0	20600	8.9642	8.9429

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
779.5	23205	<b>4.5091</b>	<b>4.5191</b>	23230	782	<b>8.9115</b>	<b>8.9406</b>
782.0	23230	4.4877	4.4823				
784.5	23255	4.4992	4.4810				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
706.5	23755	4.4957	4.4818	709	23780	8.9620	8.9253
710.0	23790	<b>4.5120</b>	4.5055	710	23790	8.9916	8.9584
713.5	23825	4.5014	<b>4.5068</b>	711	23800	<b>8.9924</b>	<b>8.9976</b>

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	26047	1.0945	1.0986	1851.5	26055	2.7020	<b>2.7099</b>
1882.5	26365	<b>1.1009</b>	1.0978	1882.5	26365	<b>2.7023</b>	2.6992
1914.3	26683	1.0956	<b>1.1057</b>	1913.5	26675	2.6976	2.7053

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	26065	<b>4.5081</b>	<b>4.5044</b>	1855.0	26090	<b>8.9926</b>	8.9618
1882.5	26365	4.5057	4.4969	1882.5	26365	8.9827	<b>8.9760</b>
1912.5	26665	4.4960	4.4957	1910.0	26640	8.9405	8.9388

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	26115	13.3821	13.4302	1860.0	26140	17.8480	17.8418
1882.5	26365	13.4134	<b>13.4827</b>	1882.5	26365	<b>17.9250</b>	17.9038
1907.5	26615	<b>13.4322</b>	13.4447	1905.0	26590	17.9553	<b>17.9357</b>

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**26dB Bandwidth**

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	309.697	304.947
836.60	190	313.559	<b>314.018</b>
848.80	251	<b>313.960</b>	311.605

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	308.828	<b>324.758</b>
1880.00	661	314.370	306.139
1909.80	810	<b>318.501</b>	310.525

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	<b>4.628</b>	<b>4.646</b>	<b>4.642</b>
1880.00	9400	4.627	4.640	4.616
1909.80	9538	4.624	4.629	4.627

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	<b>4.627</b>	4.628	4.622
1732.6	1413	4.626	<b>4.637</b>	<b>4.645</b>
1752.6	1513	4.609	4.631	4.623

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Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.622	<b>4.629</b>	<b>4.633</b>
836.60	4183	<b>4.626</b>	4.628	4.632
846.60	4233	4.620	4.629	4.617

Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		CDMA BC0	EVDO BC0
824.7	1013	1.403	1.410
836.52	384	1.409	<b>1.415</b>
848.31	777	<b>1.418</b>	1.412

Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		CDMA BC1	EVDO BC1
1851.25	25	1.414	<b>1.418</b>
1880.00	600	<b>1.416</b>	1.414
1908.75	1175	1.415	1.417

Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		CDMA BC10	EVDO BC10
817.9	476	<b>1.412</b>	1.411
820.5	580	1.411	1.413
823.1	684	1.409	<b>1.418</b>

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.269	<b>1.316</b>	1851.5	18615	<b>3.024</b>	3.035
1880.0	18900	1.269	1.301	1880.0	18900	2.966	3.060
1909.3	19193	<b>1.297</b>	1.304	1908.5	19185	2.990	<b>3.076</b>

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	5.034	5.072	1855.0	18650	<b>9.876</b>	9.840
1880.0	18900	5.057	5.075	1880.0	18900	9.828	9.561
1907.5	19175	<b>5.058</b>	<b>5.116</b>	1905.0	19150	9.826	<b>9.907</b>

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	<b>14.837</b>	14.758	1860.0	18700	19.253	19.230
1880.0	18900	14.797	14.863	1880.0	18900	19.455	<b>19.596</b>
1902.5	19125	14.636	<b>14.924</b>	1900.0	19100	<b>19.551</b>	19.576

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	<b>1.309</b>	<b>1.318</b>	1711.5	19965	3.007	3.012
1732.5	20175	1.288	1.305	1732.5	20175	3.044	3.056
1754.3	20393	1.275	1.298	1753.5	20385	<b>3.045</b>	<b>3.072</b>

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	5.057	<b>5.072</b>	1715.0	20000	9.721	9.830
1732.5	20175	<b>5.073</b>	5.039	1732.5	20175	9.789	<b>9.862</b>
1752.5	20375	4.929	5.044	1750.0	20350	<b>9.839</b>	9.769

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	14.614	14.657	1720.0	20050	19.418	<b>19.716</b>
1732.5	20175	<b>14.782</b>	14.602	1732.5	20175	19.389	19.617
1747.5	20325	14.513	<b>14.924</b>	1745.0	20300	<b>19.601</b>	19.703

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.263	1.293	825.5	20415	<b>3.065</b>	<b>3.042</b>
836.5	20525	1.289	<b>1.300</b>	836.5	20525	3.024	3.018
848.3	20643	<b>1.297</b>	1.295	847.5	20635	2.998	3.037

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
826.5	20425	<b>5.062</b>	<b>5.081</b>	829.0	20450	<b>9.771</b>	<b>9.854</b>
836.5	20525	5.016	4.970	836.5	20525	9.657	9.810
846.5	20625	5.059	5.065	844.0	20600	9.718	9.826

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
779.5	23205	5.059	<b>5.130</b>	23230	782	<b>9.718</b>	<b>9.692</b>
782.0	23230	<b>5.073</b>	4.966				
784.5	23255	4.992	5.035				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
706.5	23755	<b>5.075</b>	4.955	709	23780	9.802	<b>9.857</b>
710.0	23790	5.025	4.941	710	23790	9.820	9.800
713.5	23825	5.018	<b>5.065</b>	711	23800	<b>9.940</b>	9.845

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	26047	1.299	<b>1.333</b>	1851.5	26055	3.045	<b>3.083</b>
1882.5	26365	<b>1.317</b>	1.278	1882.5	26365	3.045	3.038
1914.3	26683	1.278	1.293	1913.5	26675	<b>3.046</b>	3.049

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	26065	<b>5.109</b>	5.066	1855.0	26090	<b>9.962</b>	<b>9.818</b>
1882.5	26365	5.054	5.011	1882.5	26365	9.685	9.783
1912.5	26665	5.028	<b>5.076</b>	1910.0	26640	9.774	9.690

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	26115	14.717	14.643	1860.0	26140	19.303	<b>19.421</b>
1882.5	26365	14.695	<b>14.873</b>	1882.5	26365	19.418	19.353
1907.5	26615	<b>14.741</b>	14.501	1905.0	26590	<b>19.666</b>	19.306

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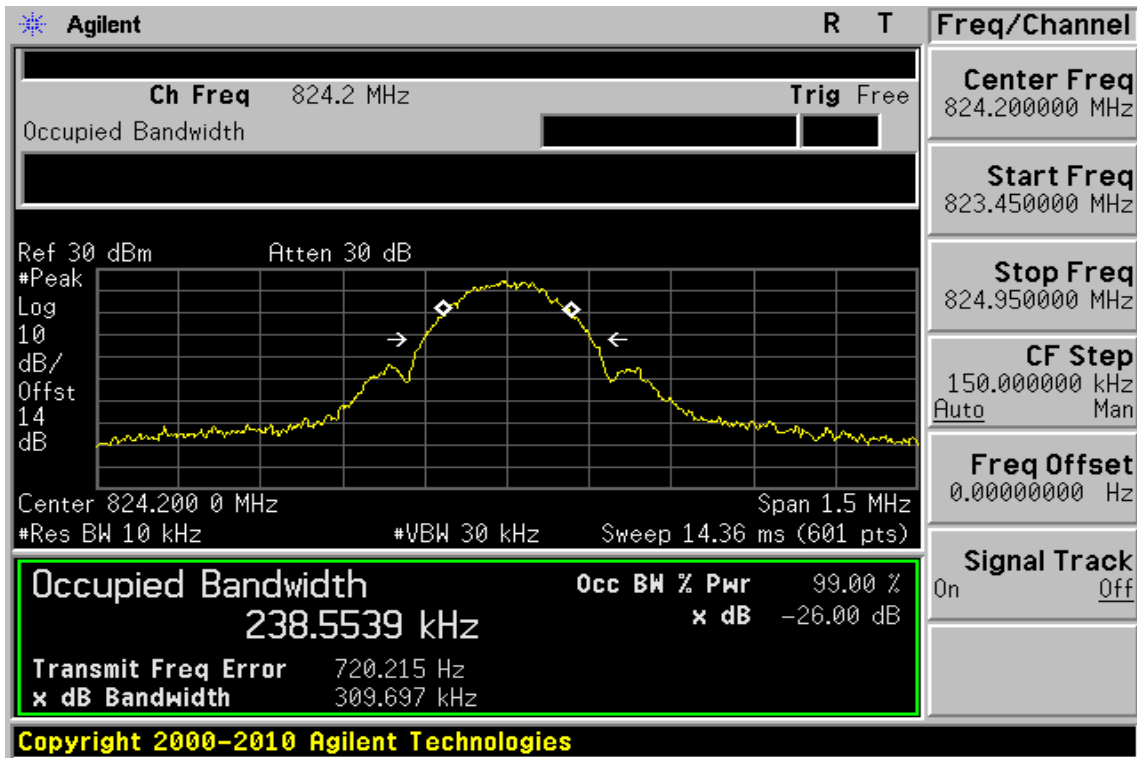
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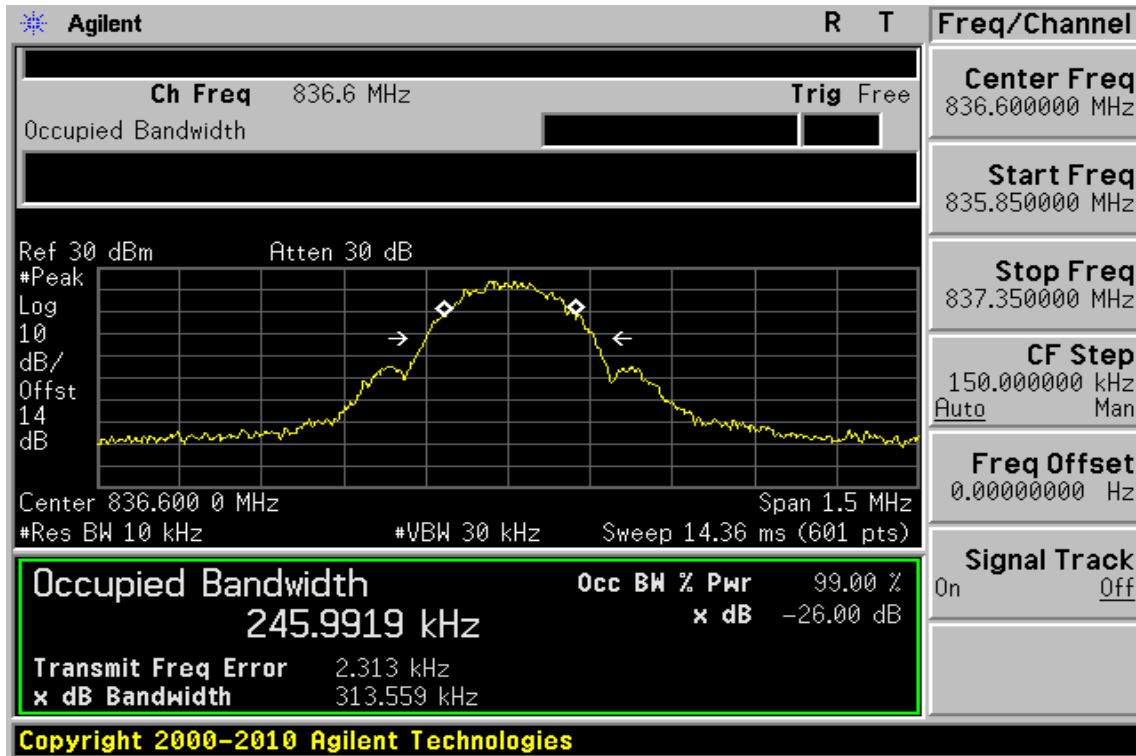
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99% Bandwidth Test Data

GPRS 850 Channel Low



GPRS 850 Channel Mid



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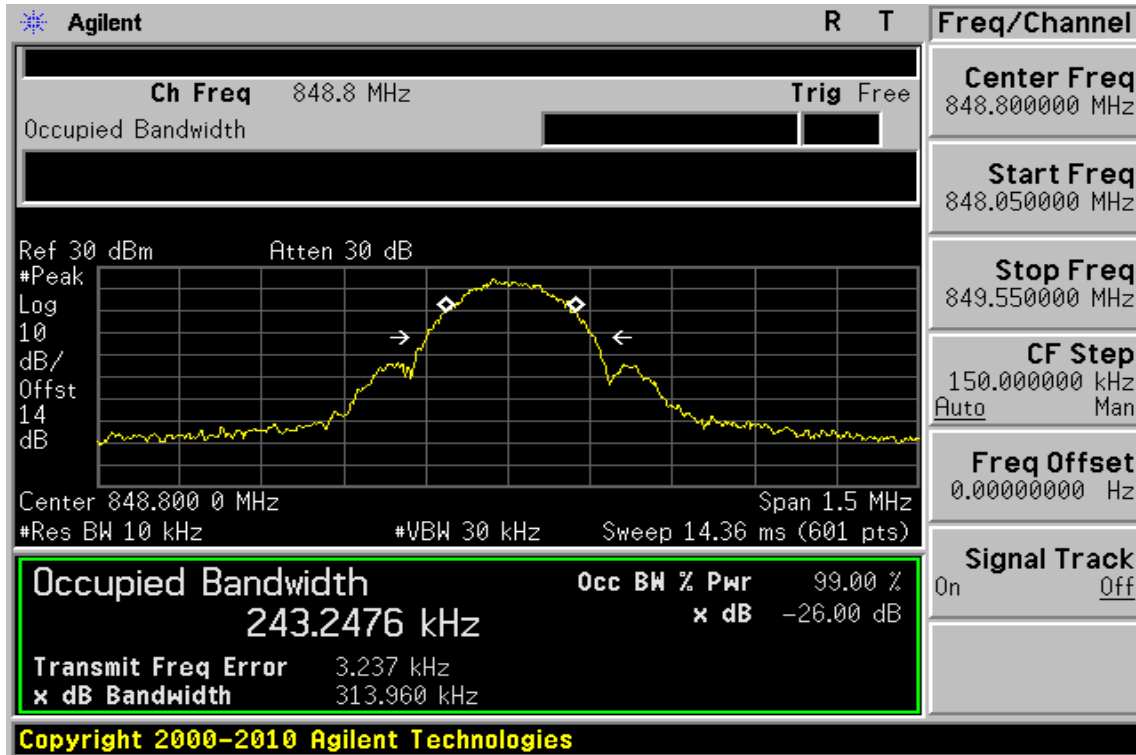
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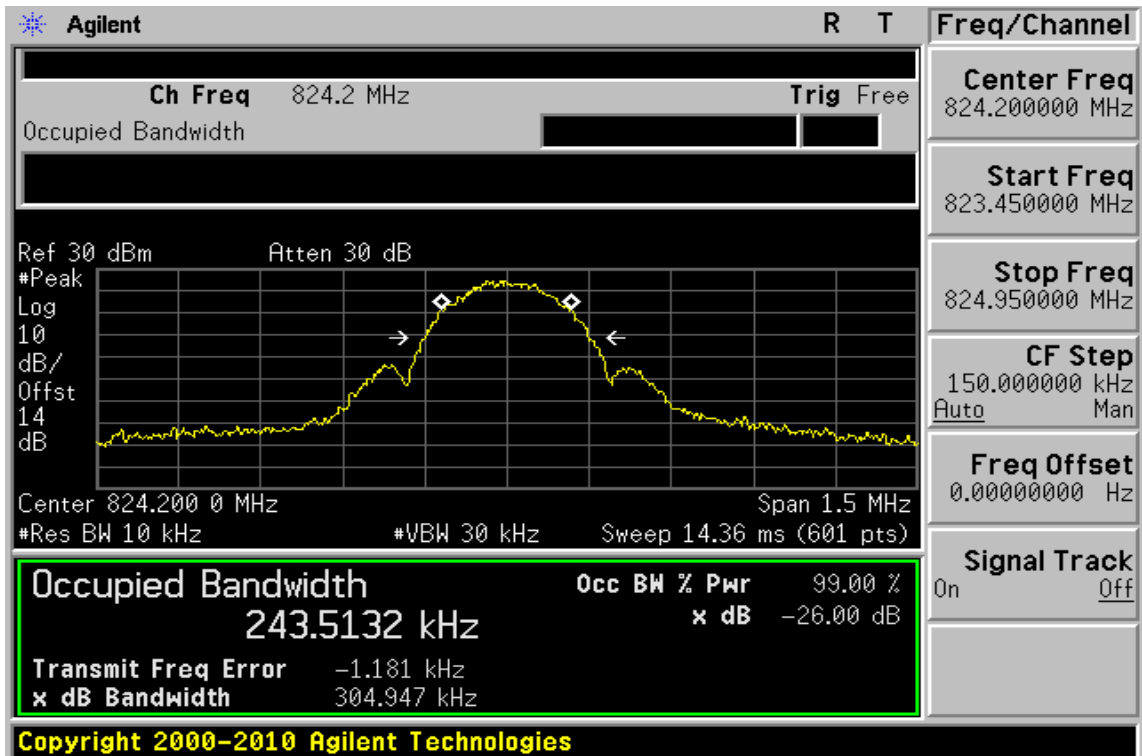
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**GPRS 850 Channel High**



**EDGE 850 Channel Low**



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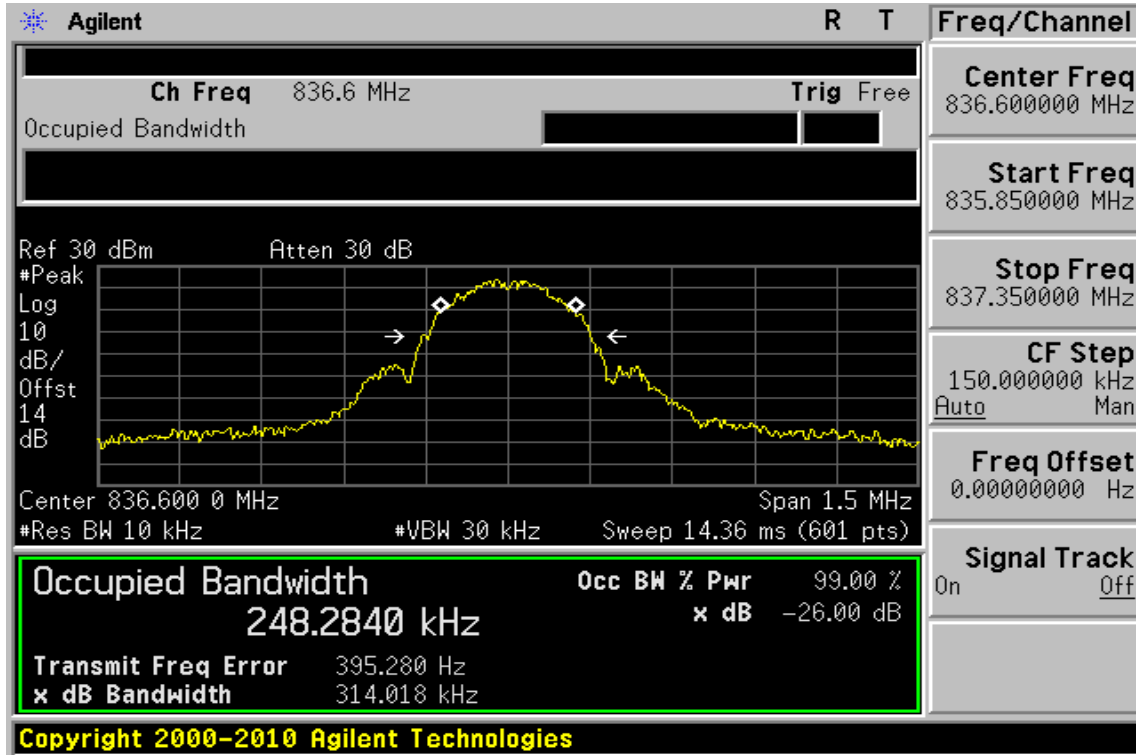
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**EDGE 850 Channel Mid**



**EDGE 850 Channel High**



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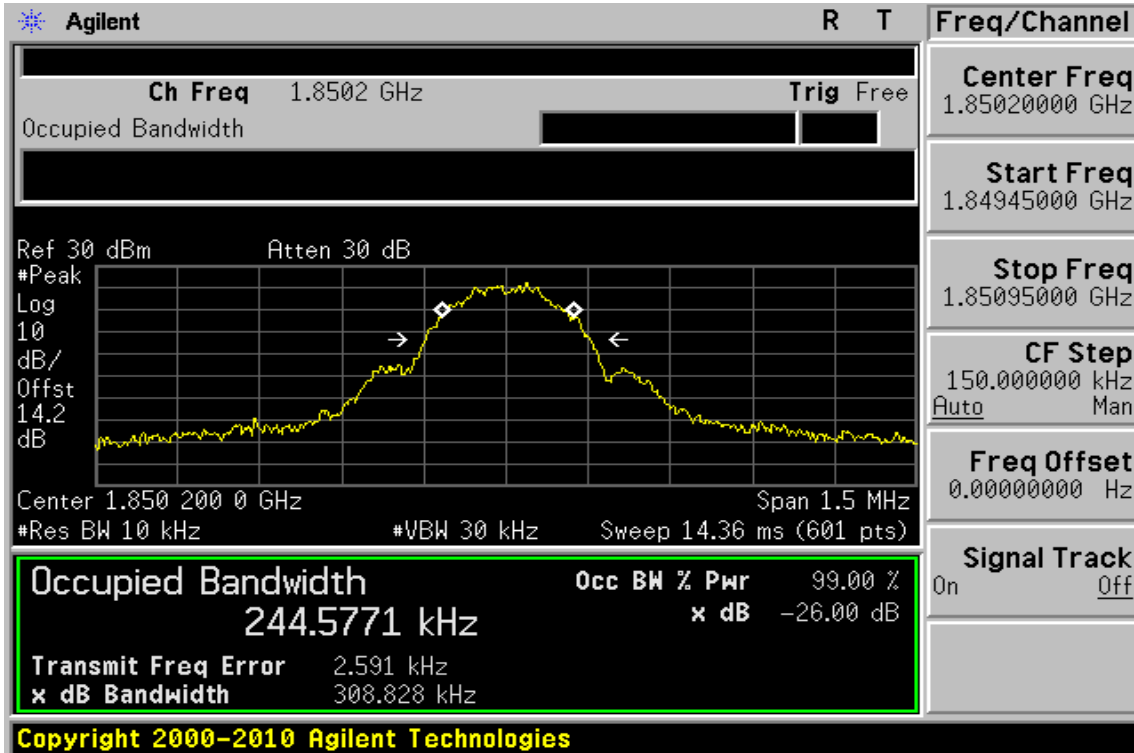
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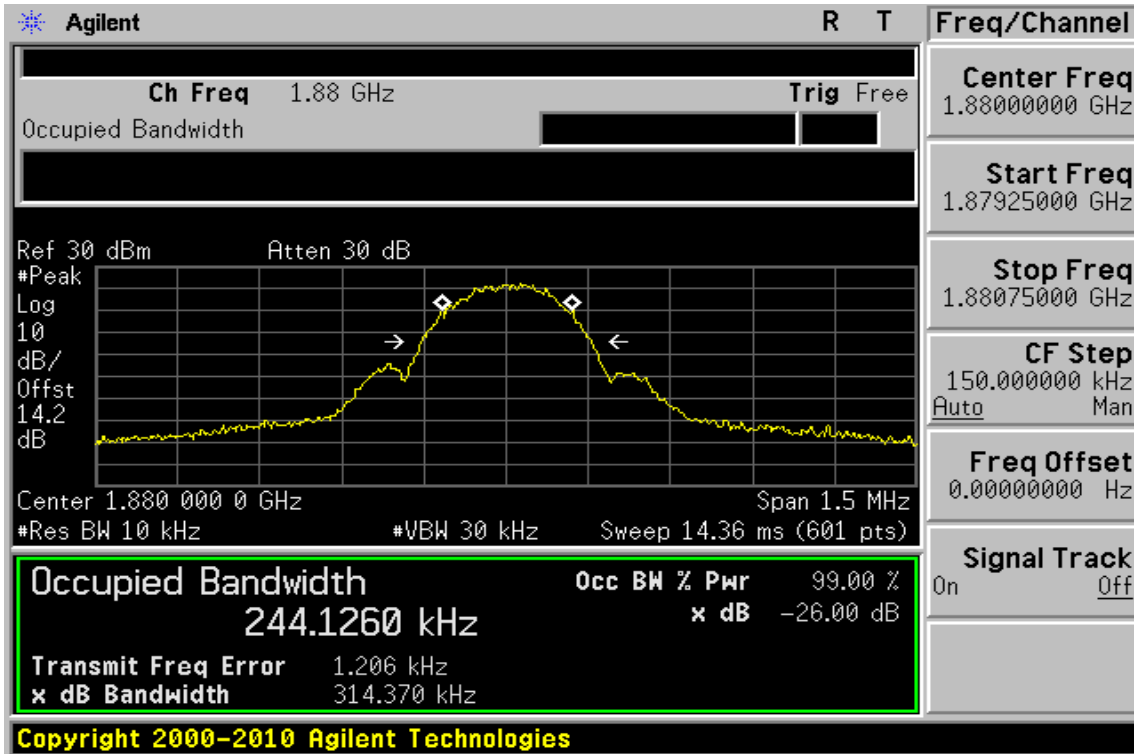
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**GPRS 1900 Channel Low**



**GPRS 1900 Channel Mid**



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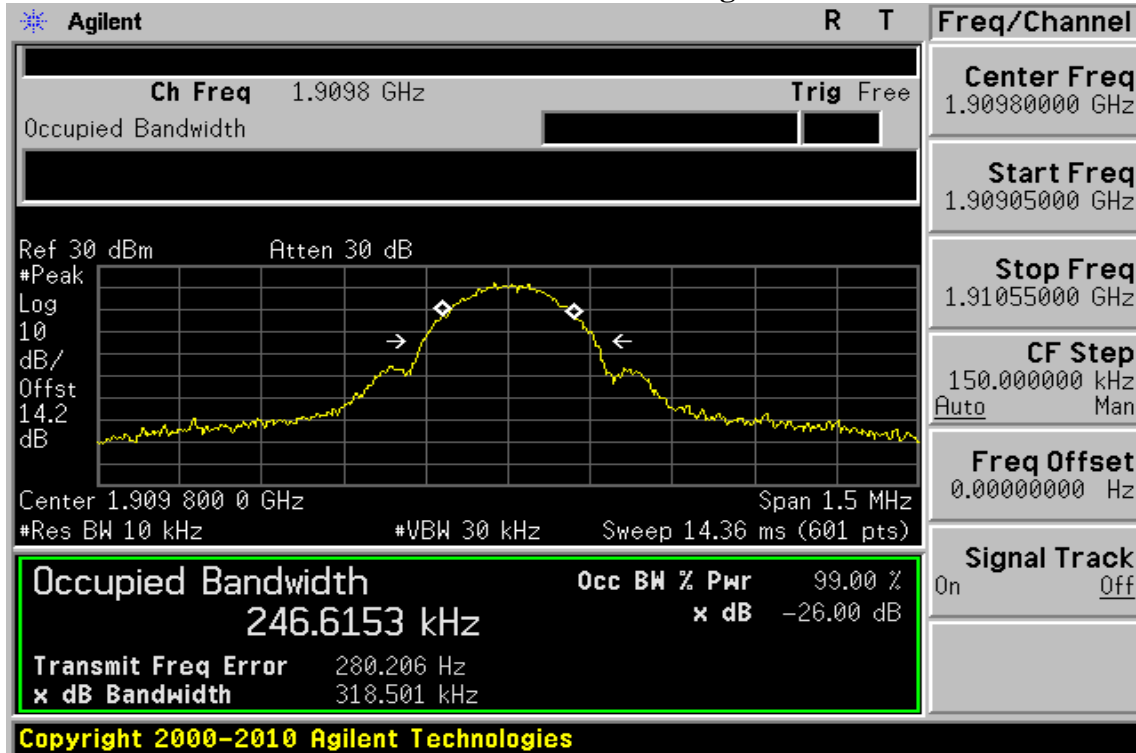
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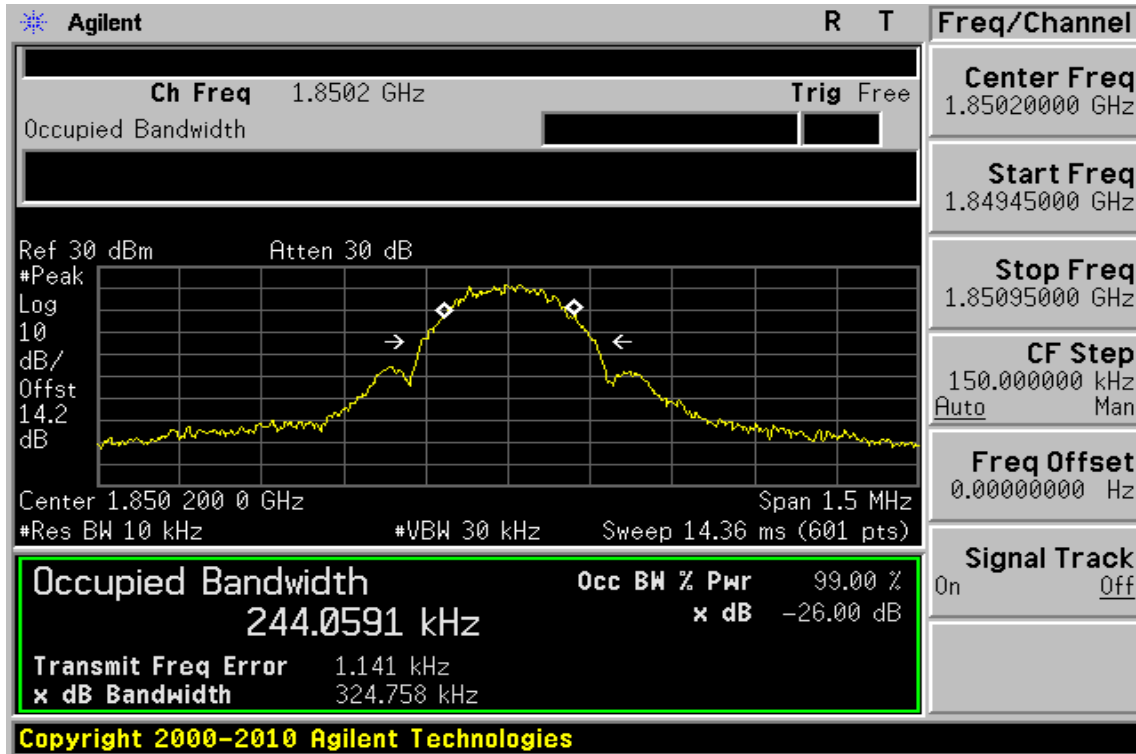
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**GPRS 1900 Channel High**



**EDGE 1900 Channel Low**



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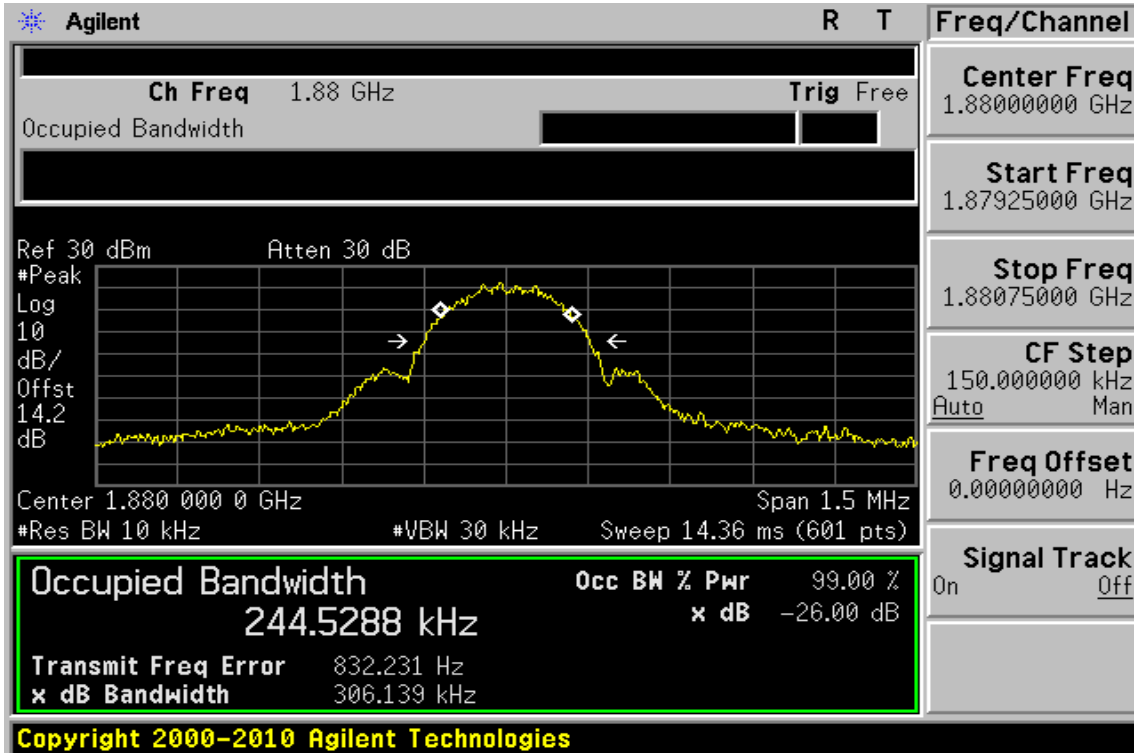
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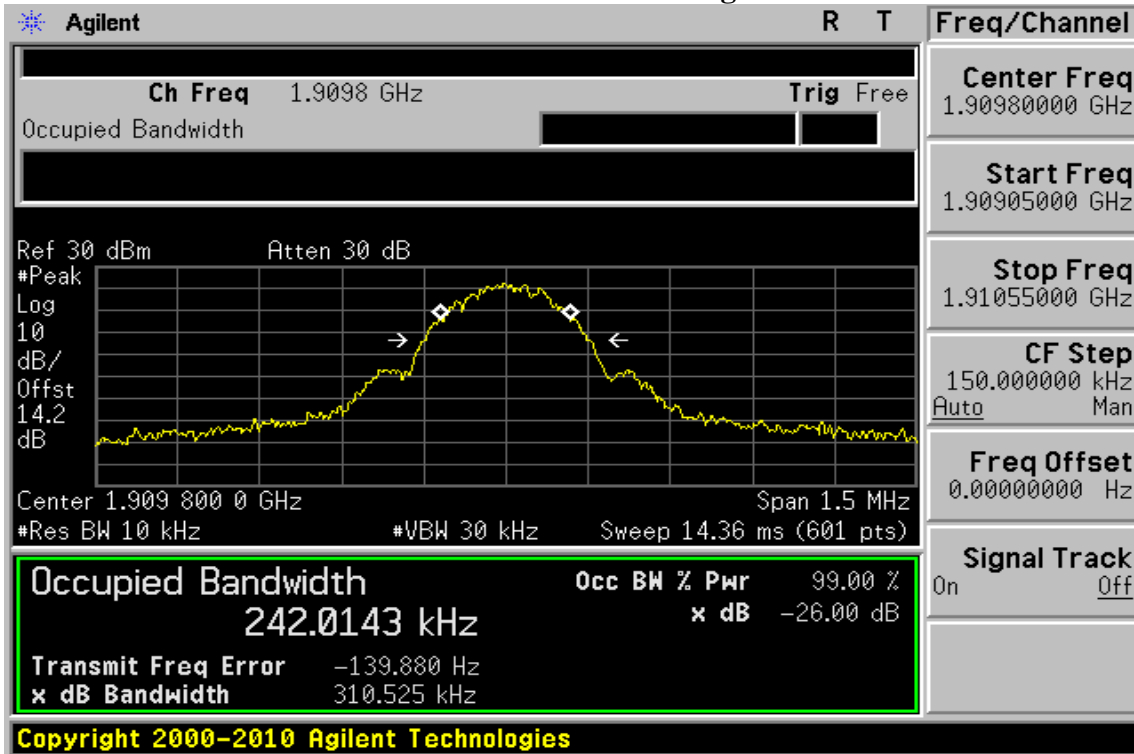
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**EDGE 1900 Channel Mid**



**EDGE 1900 Channel High**



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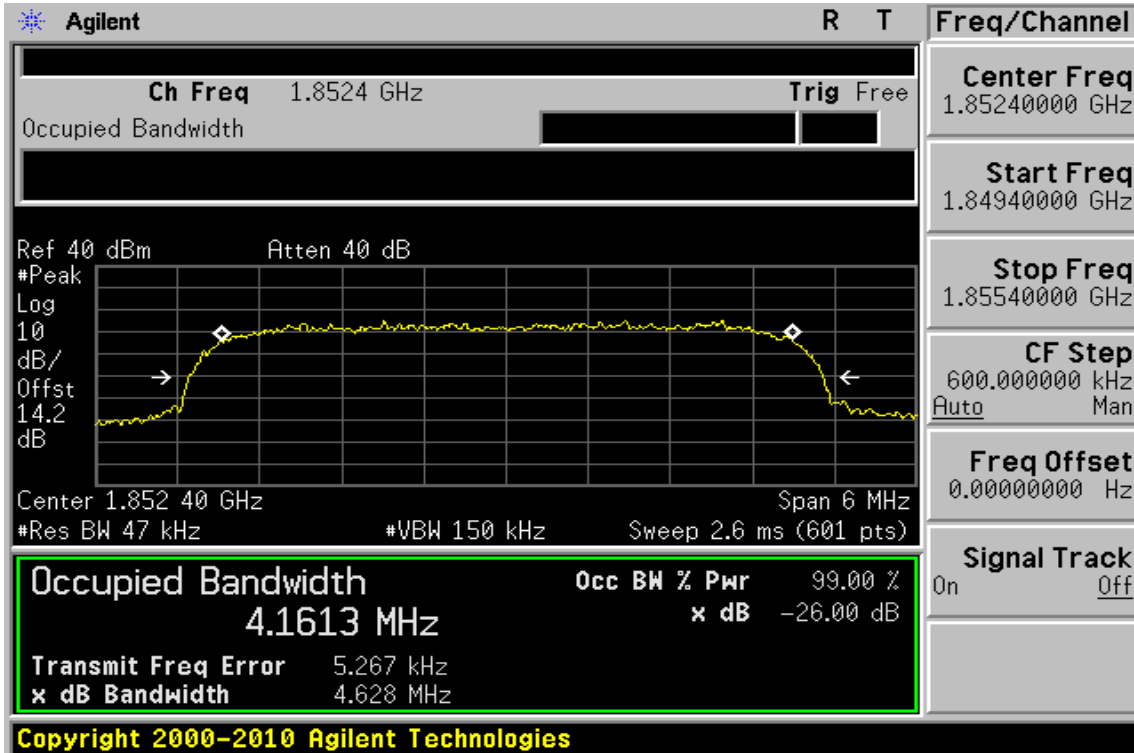
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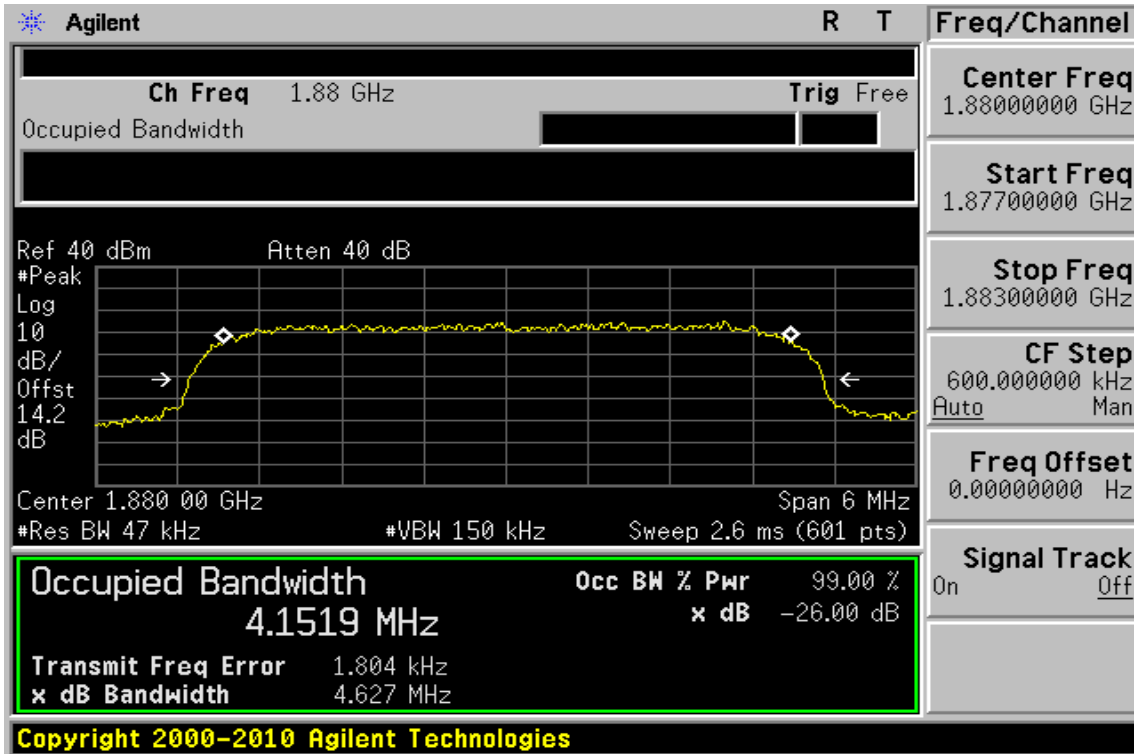
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WCDMA II Channel Low



WCDMA II Channel Mid



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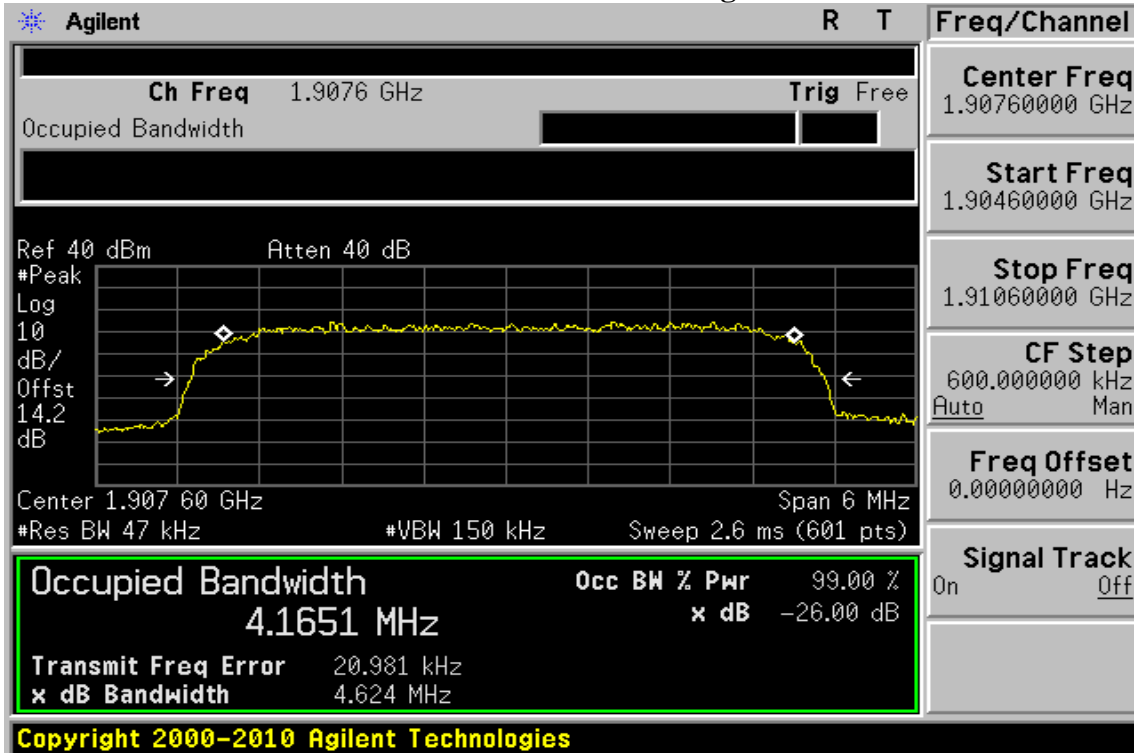
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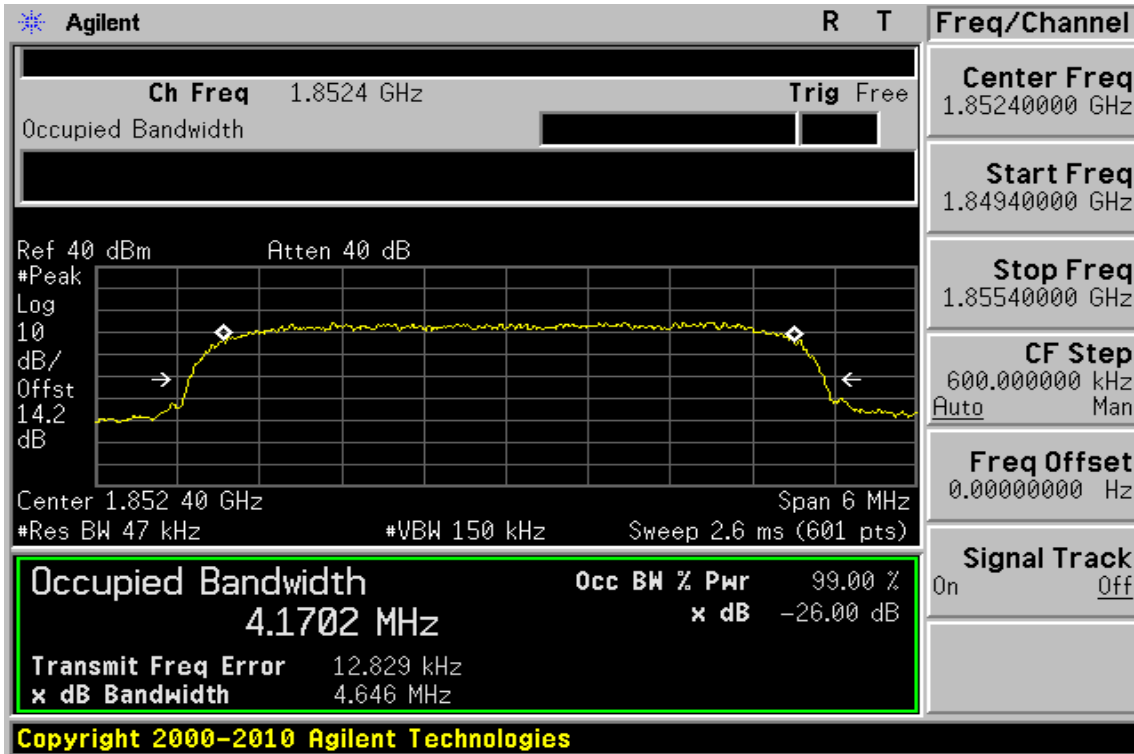
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### WCDMA II Channel High



### HSDPA II Channel Low



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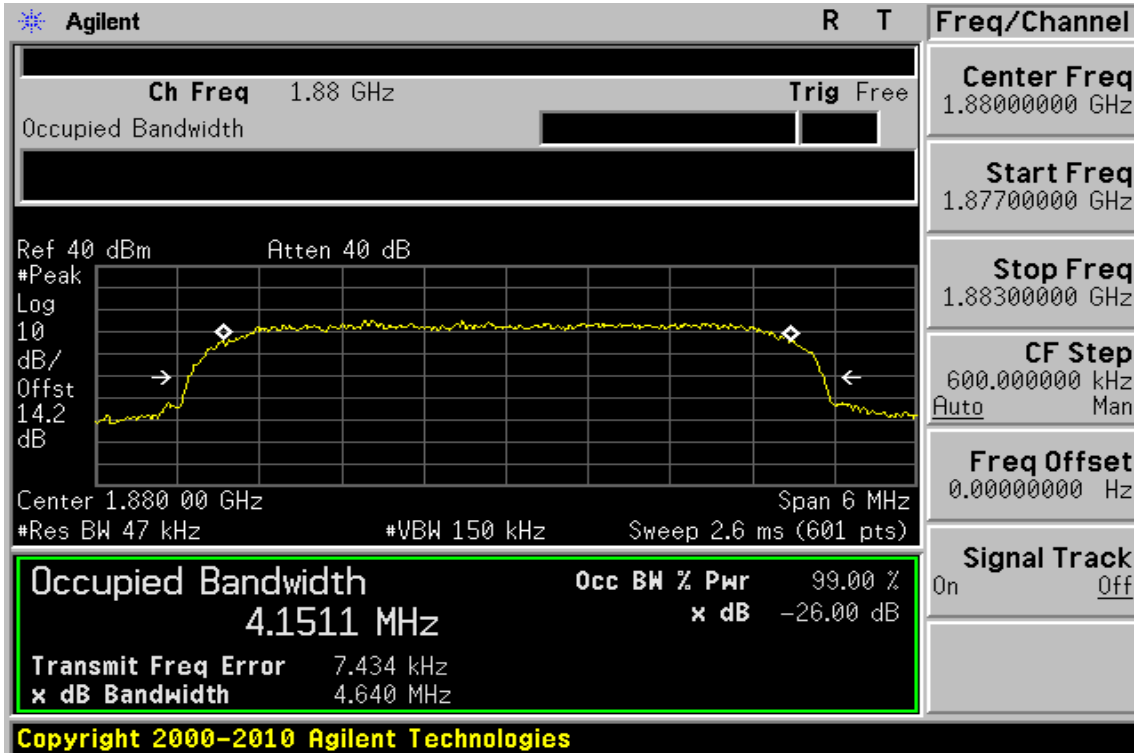
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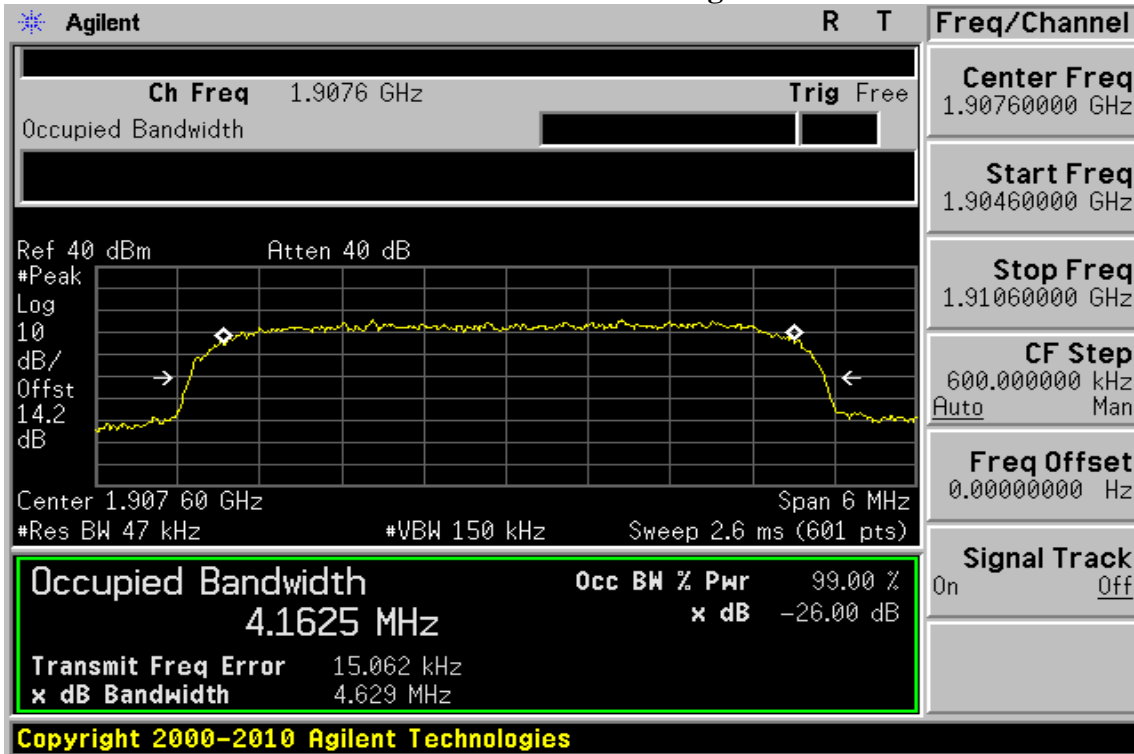
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HSDPA II Channel Mid



HSDPA II Channel High



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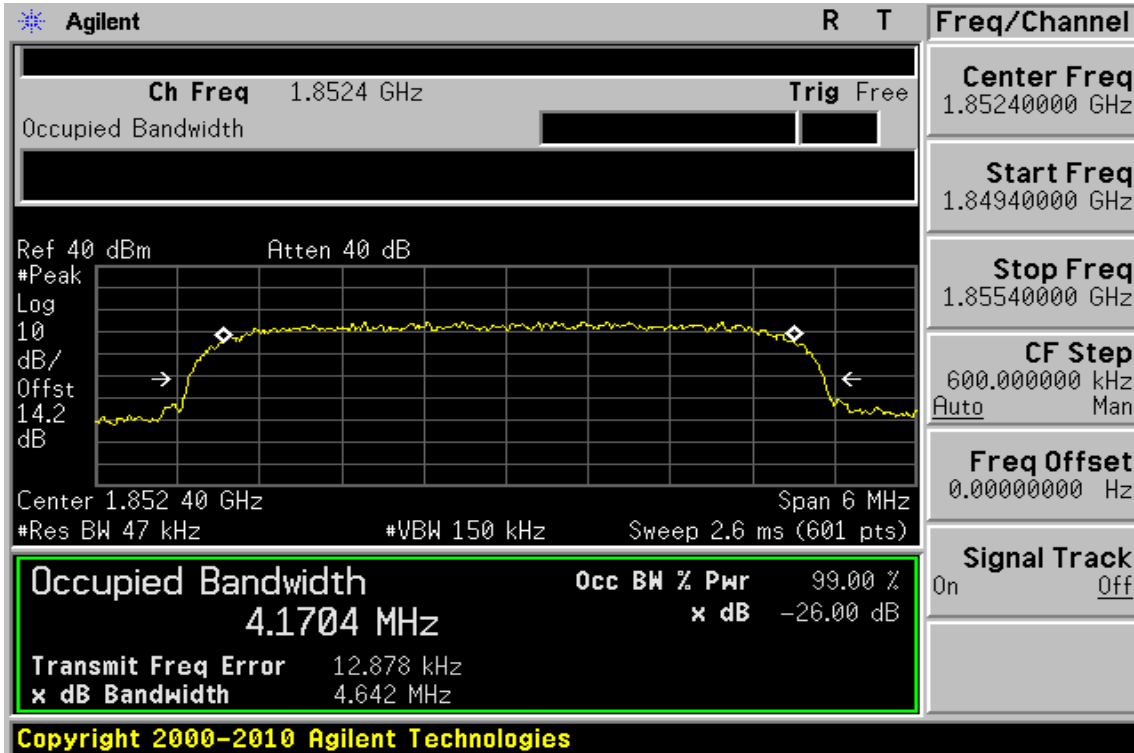
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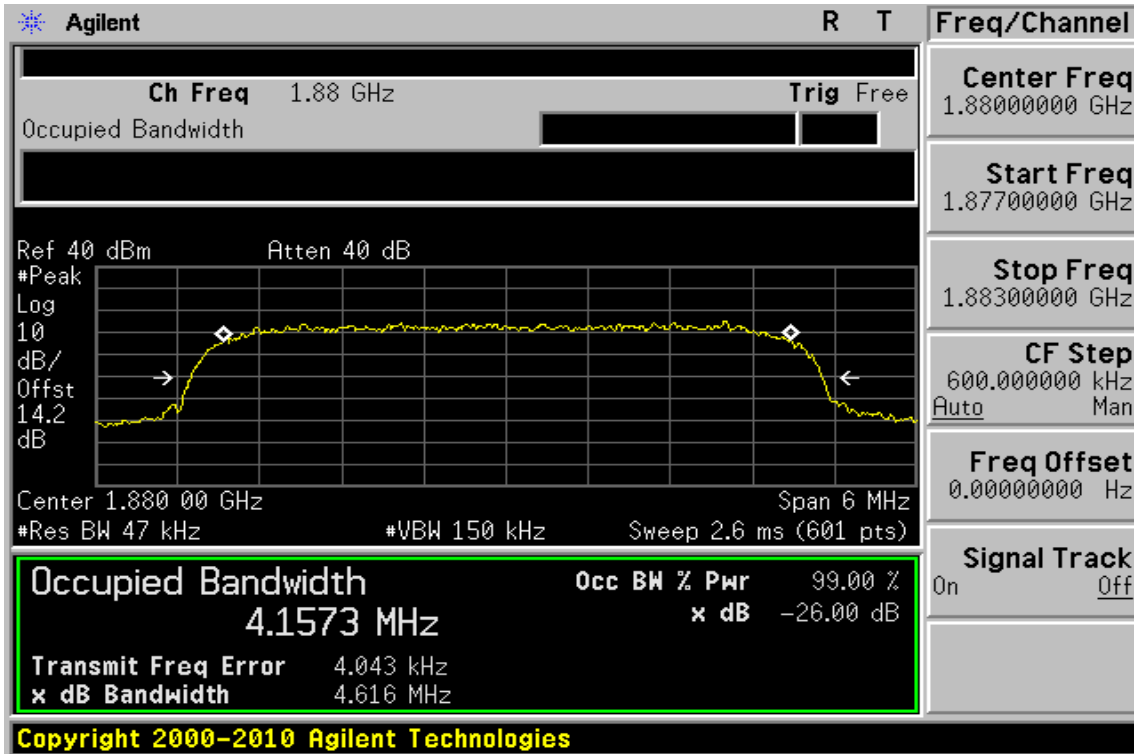
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**HSUPA II Channel Low**



**HSUPA II Channel Mid**



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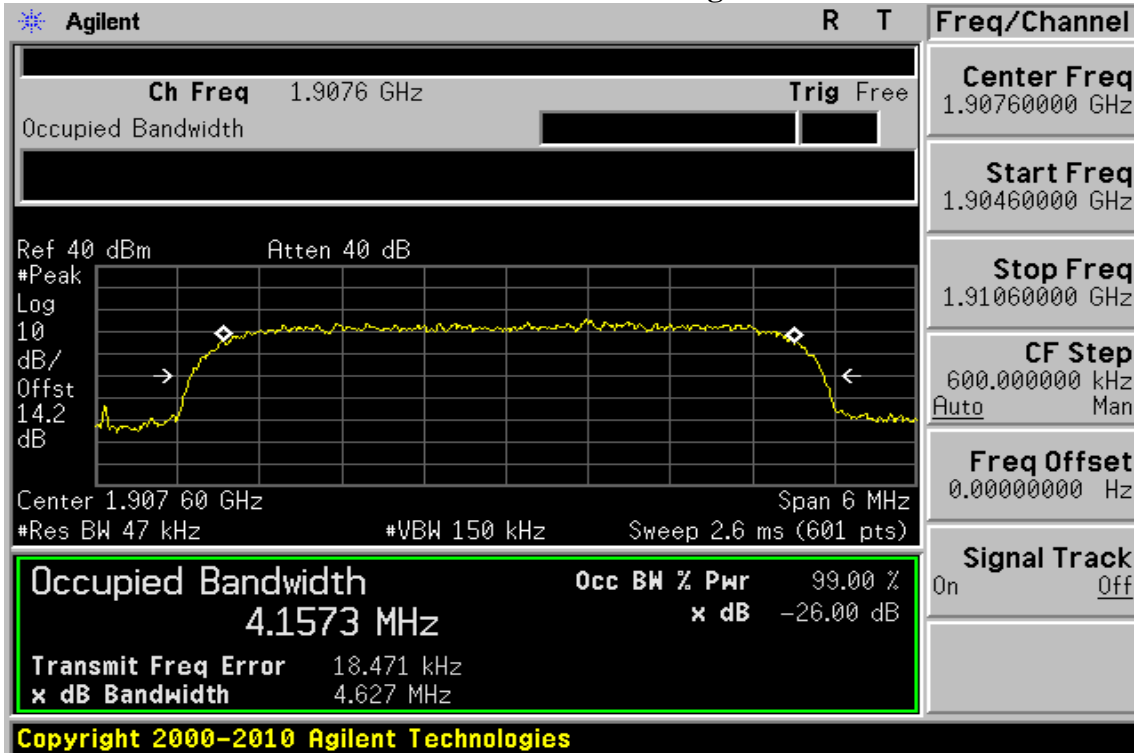
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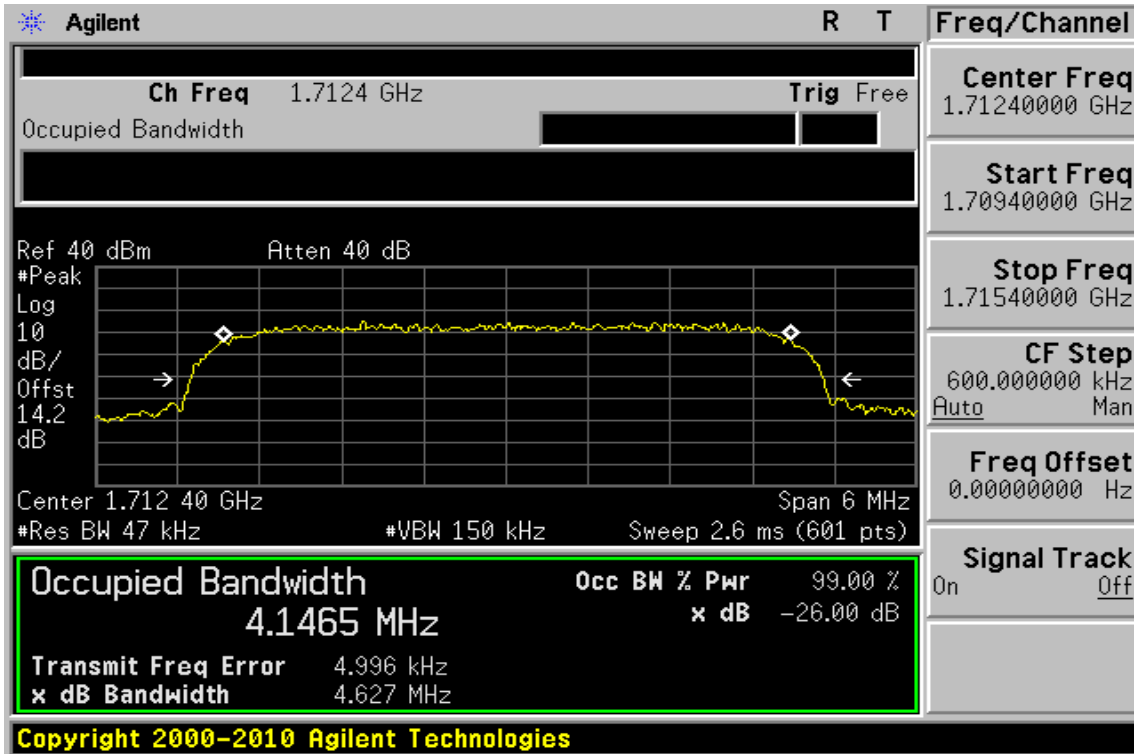
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**HSUPA II Channel High**



**WCDMA IV Channel Low**



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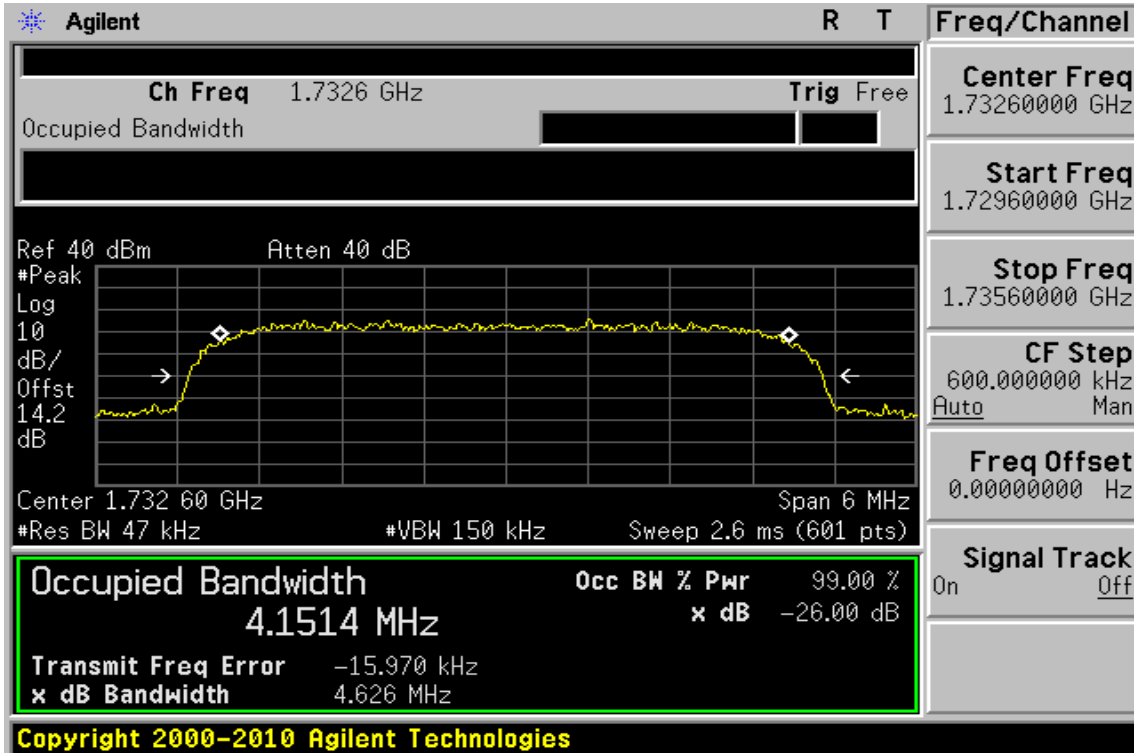
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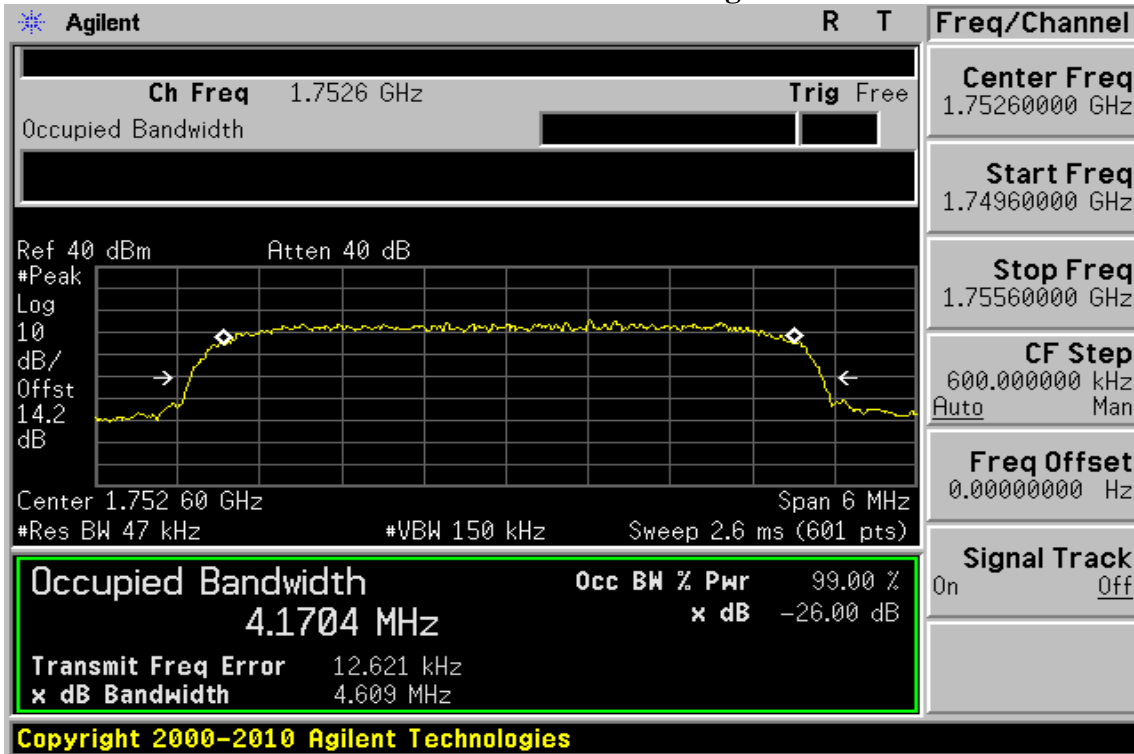
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WCDMA IV Channel Mid



WCDMA IV Channel High



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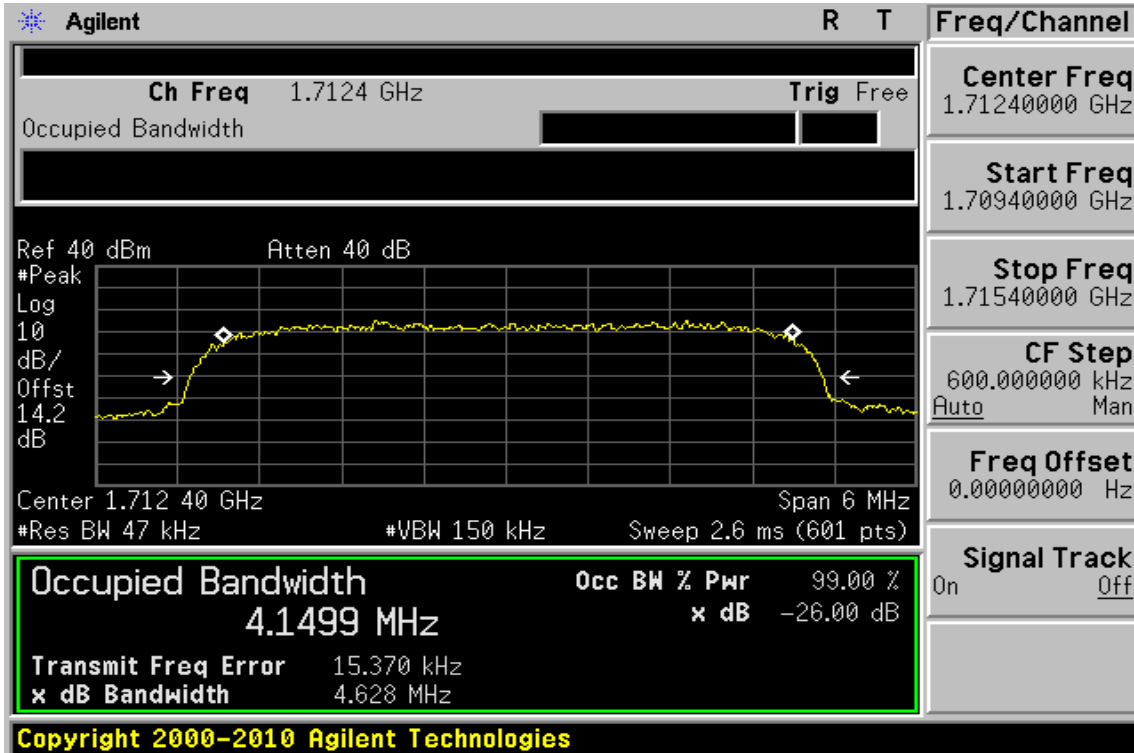
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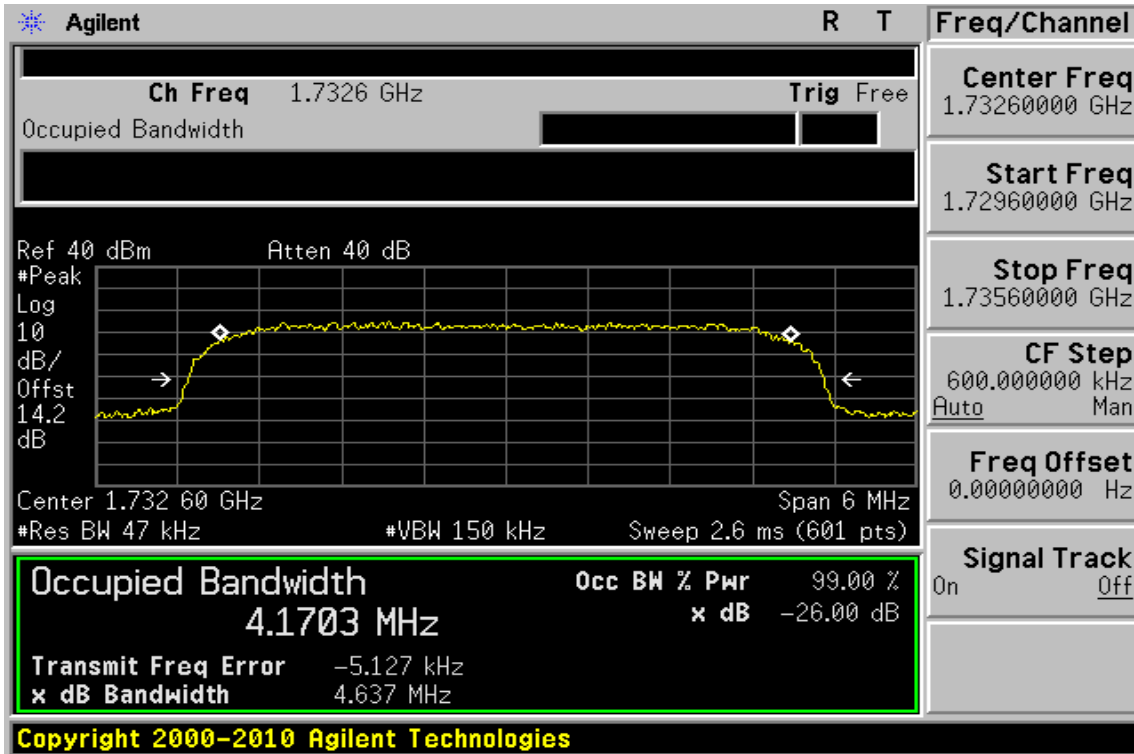
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HSDPA IV Channel Low



HSDPA IV Channel Mid



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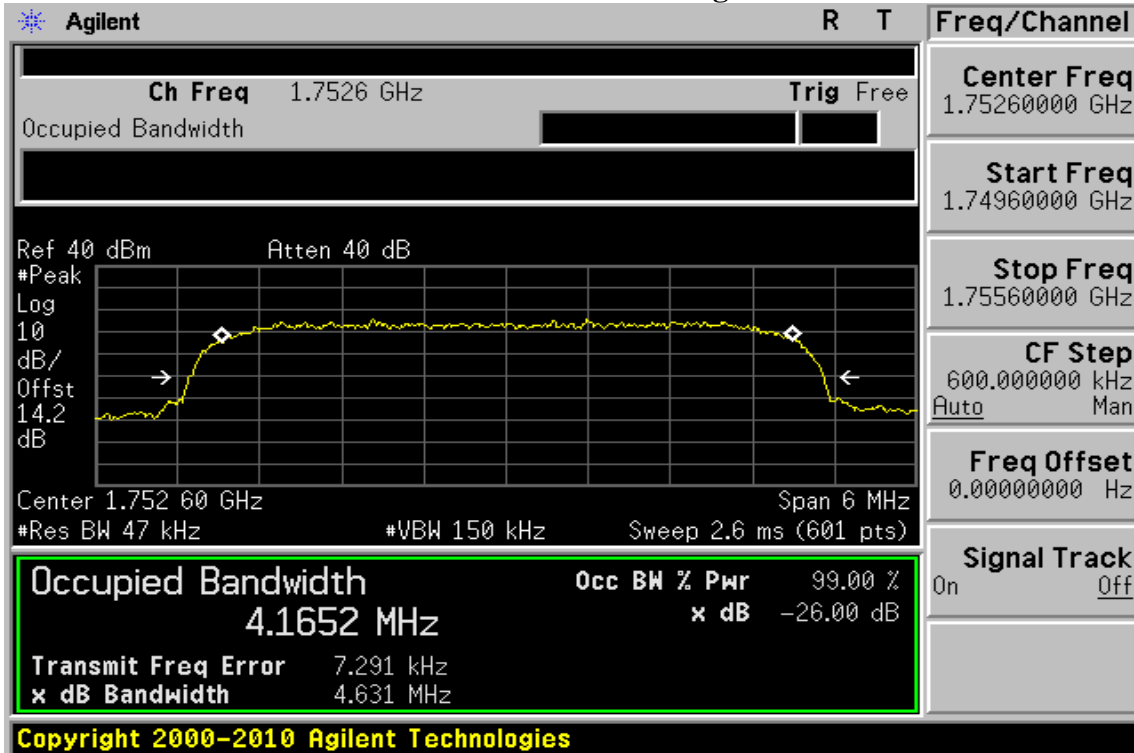
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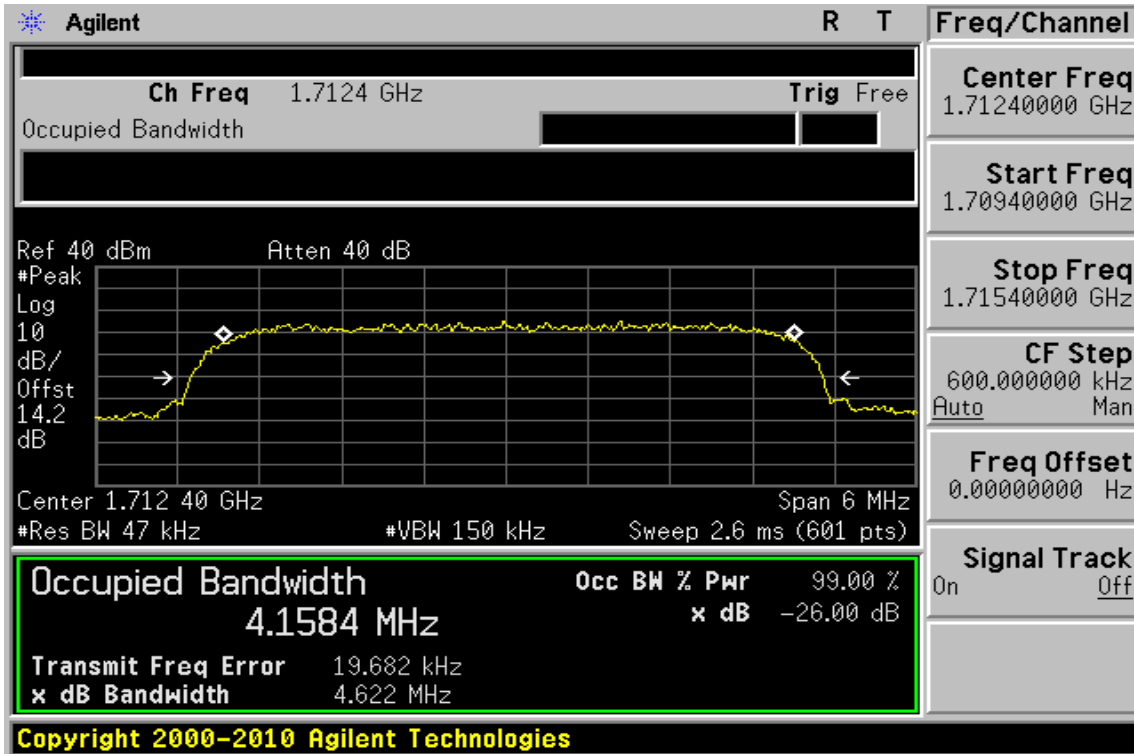
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### HSDPA IV Channel High



### HSUPA IV Channel Low



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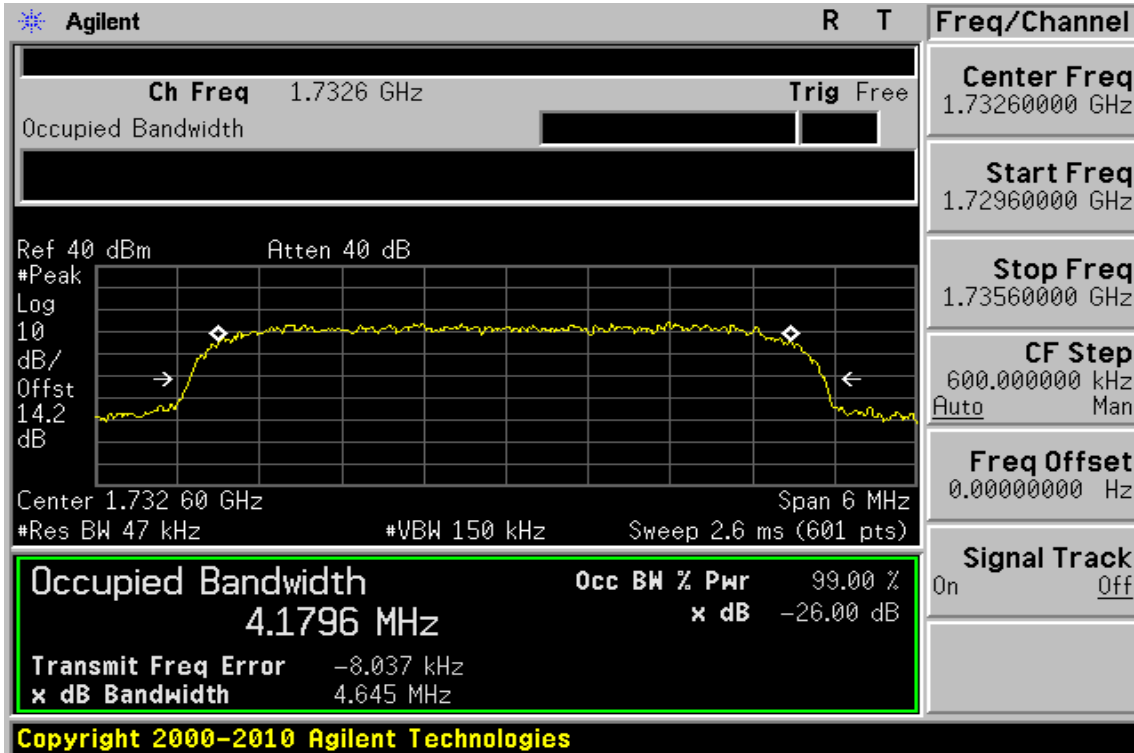
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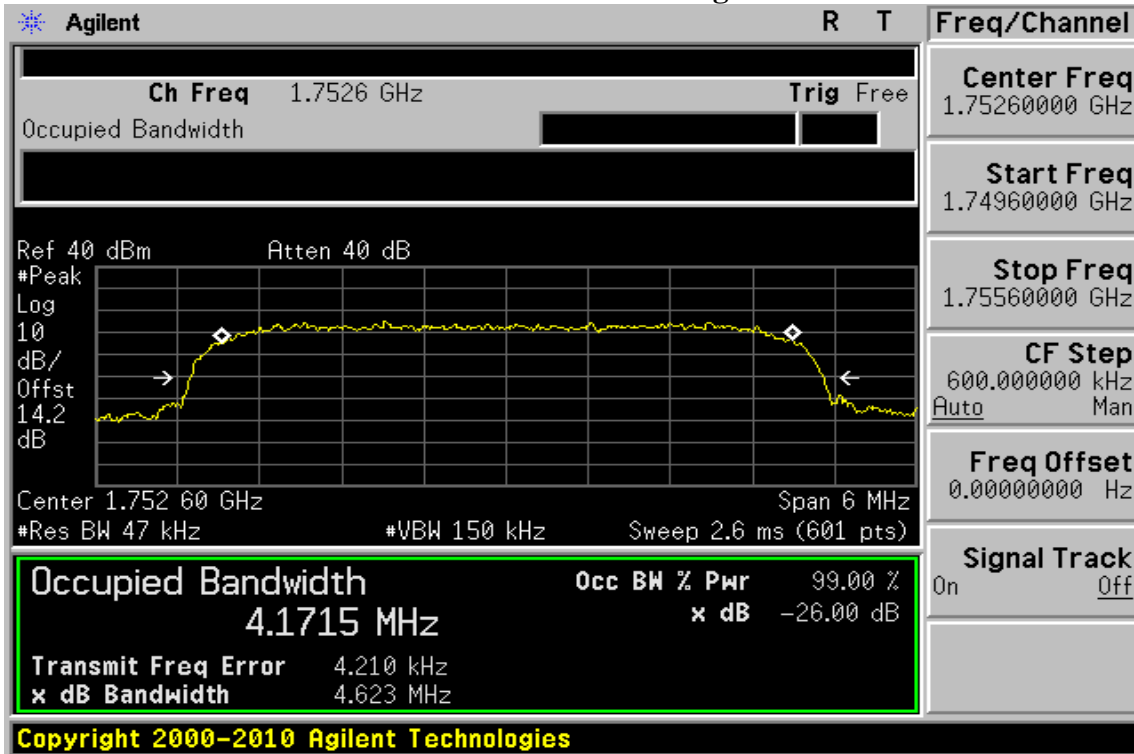
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**HSUPA IV Channel Mid**



**HSUPA IV Channel High**



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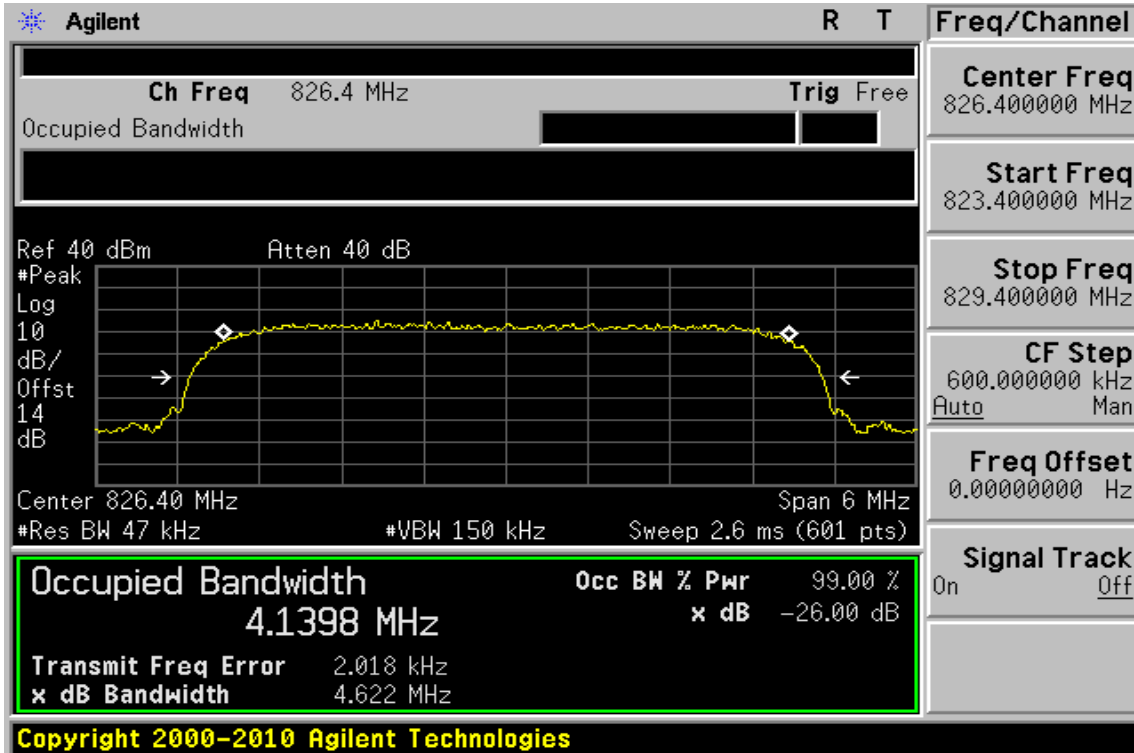
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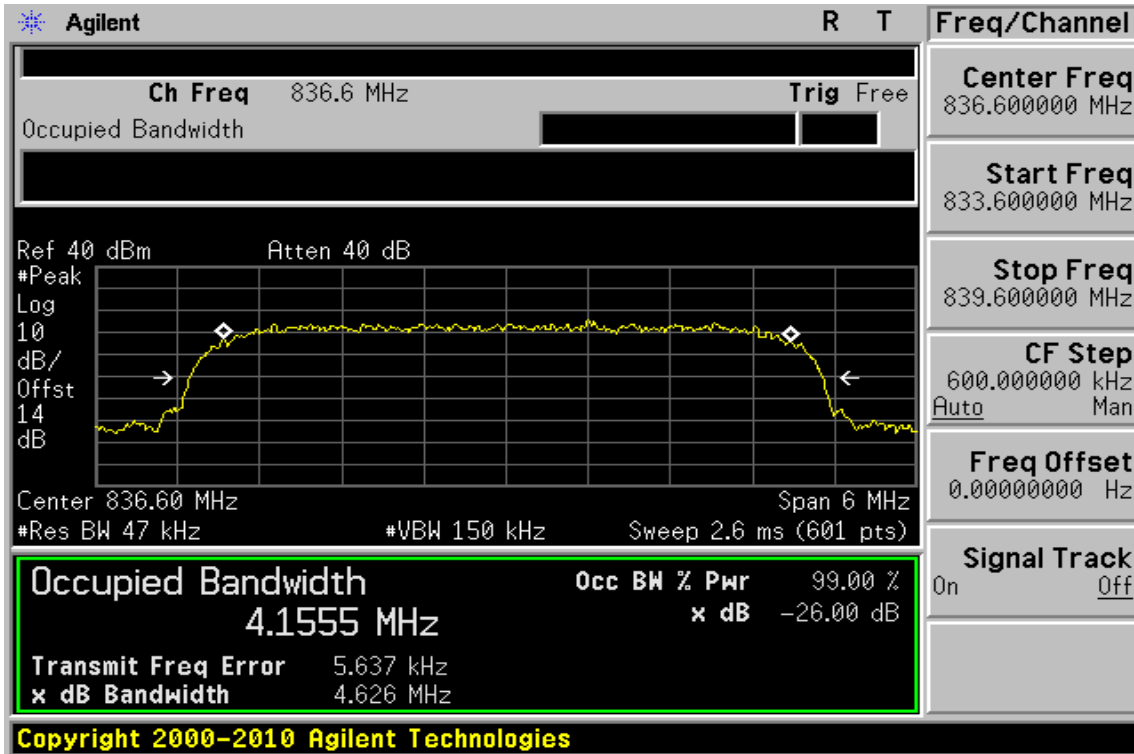
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WCDMA V Channel Low



WCDMA V Channel Mid



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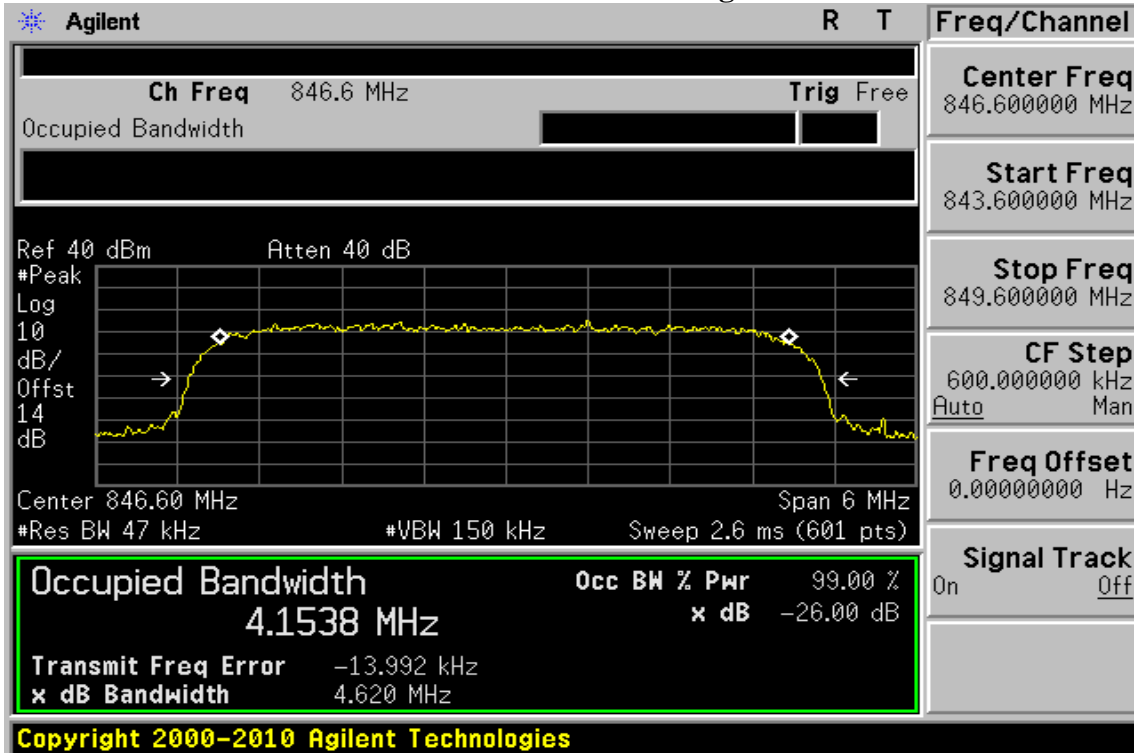
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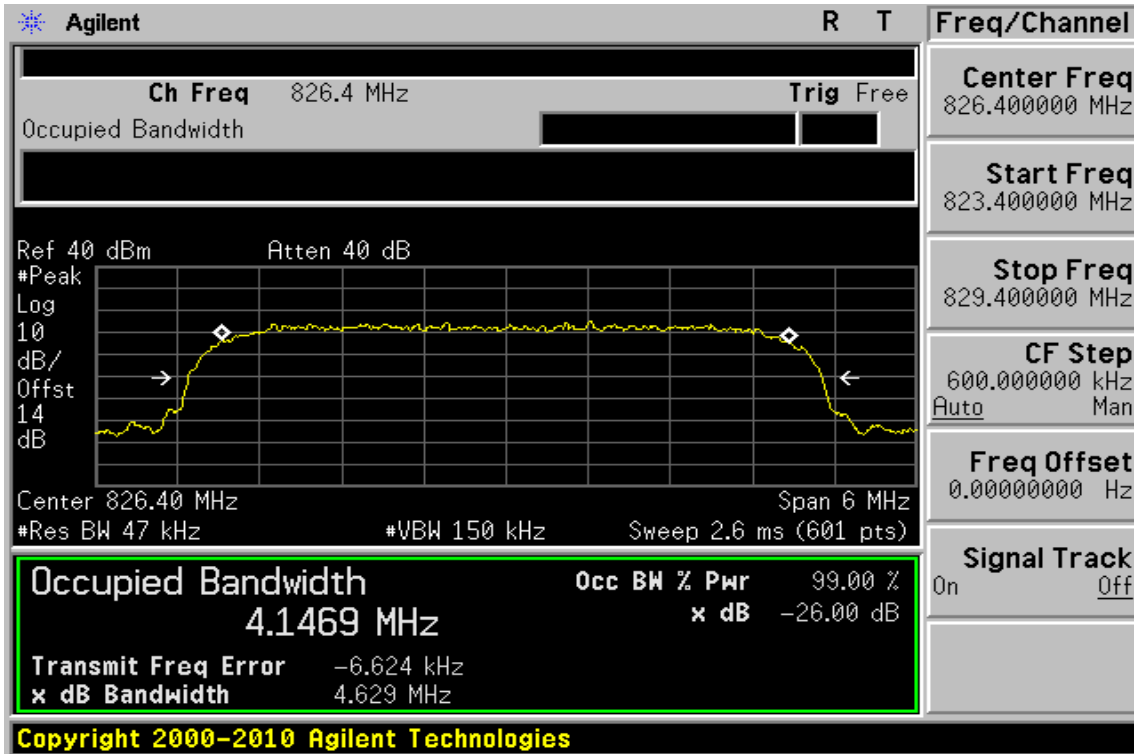
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WCDMA V Channel High



HSDPA V Channel Low



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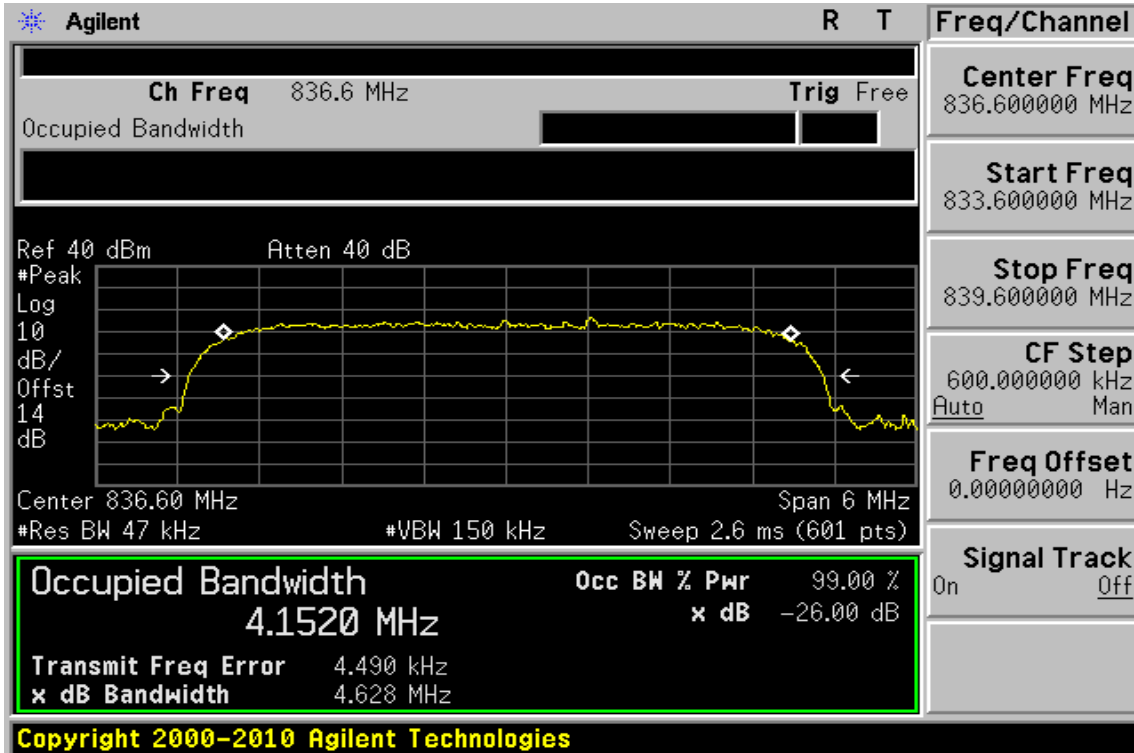
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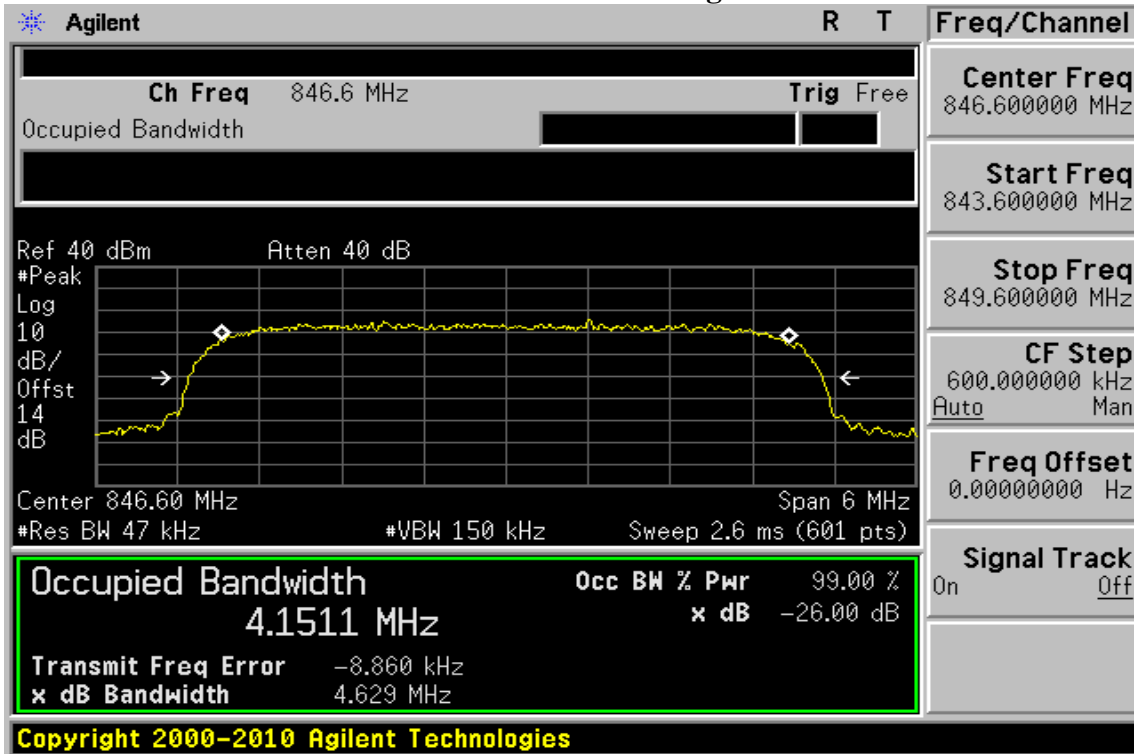
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**HSDPA V Channel Mid**



**HSDPA V Channel High**



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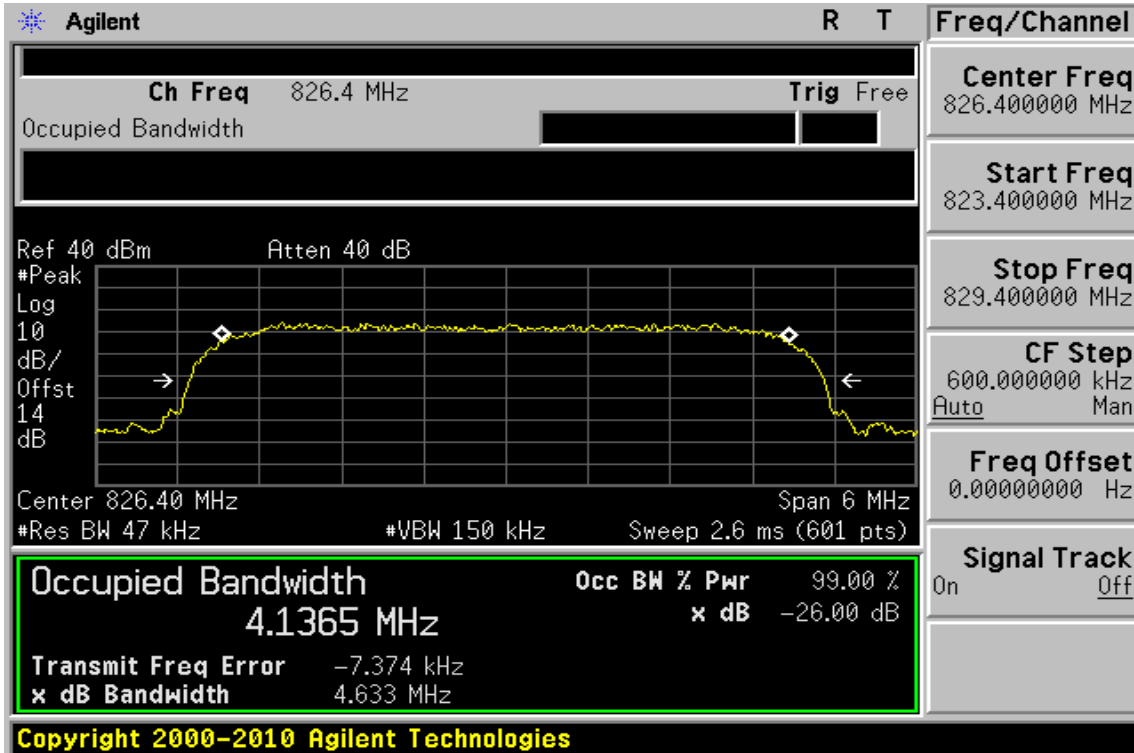
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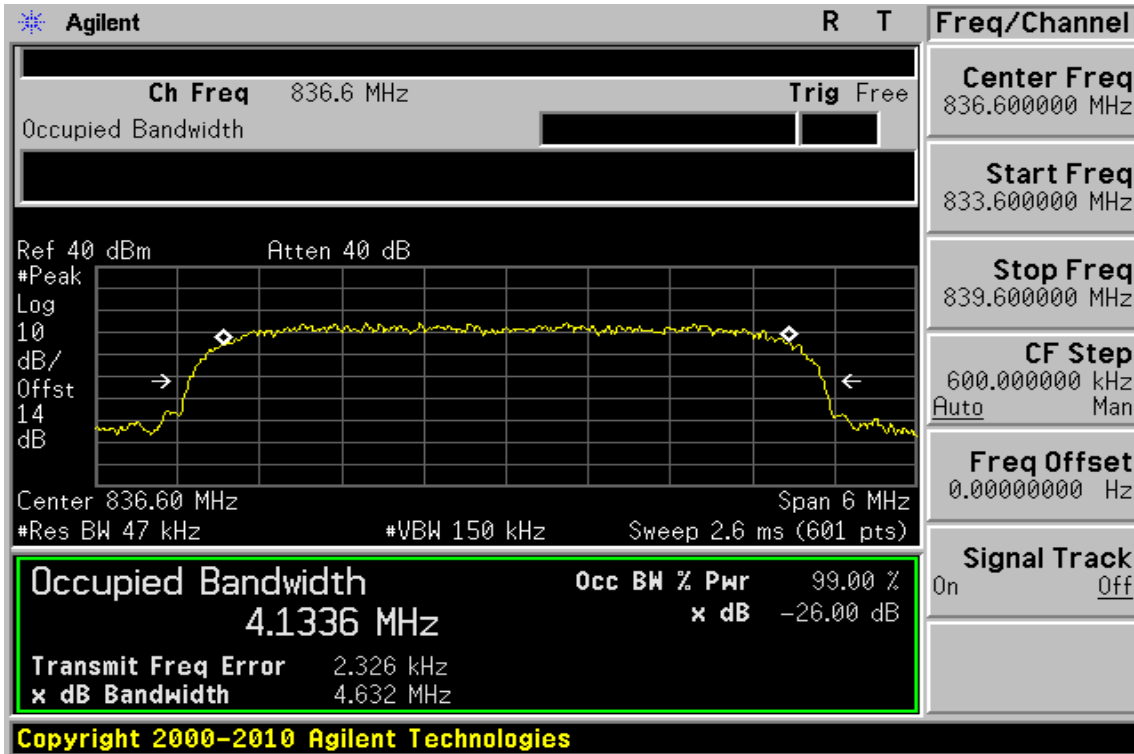
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HSUPA V Channel Low



HSUPA V Channel Mid



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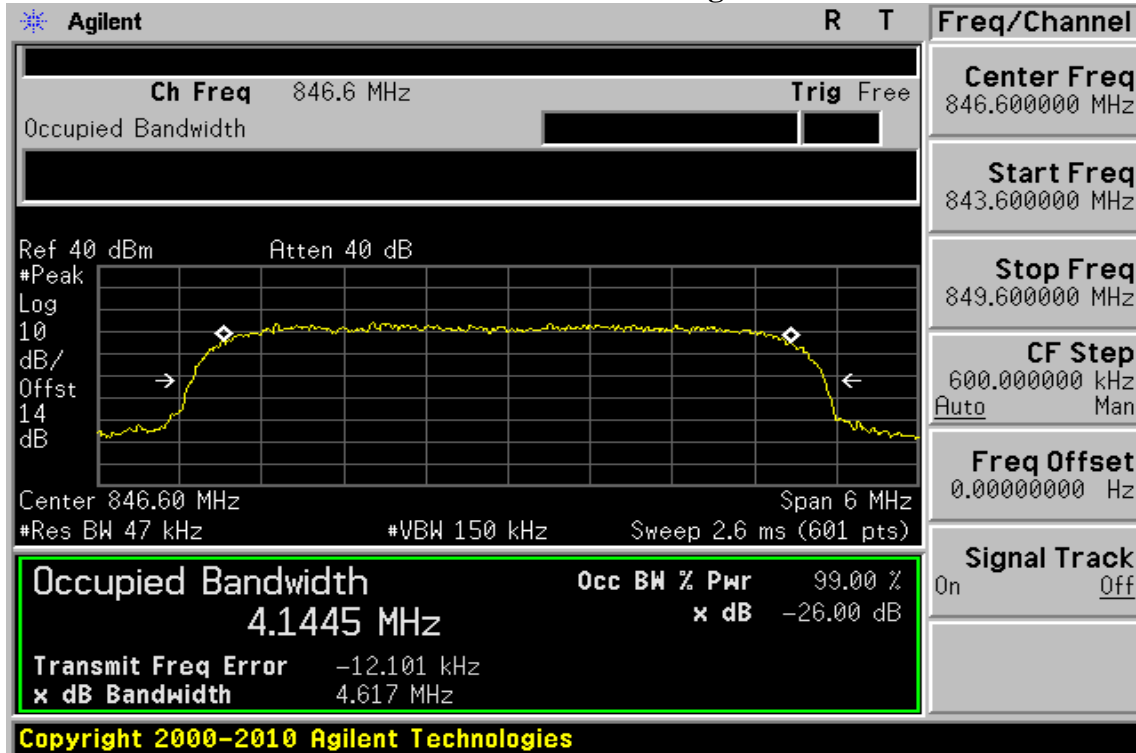
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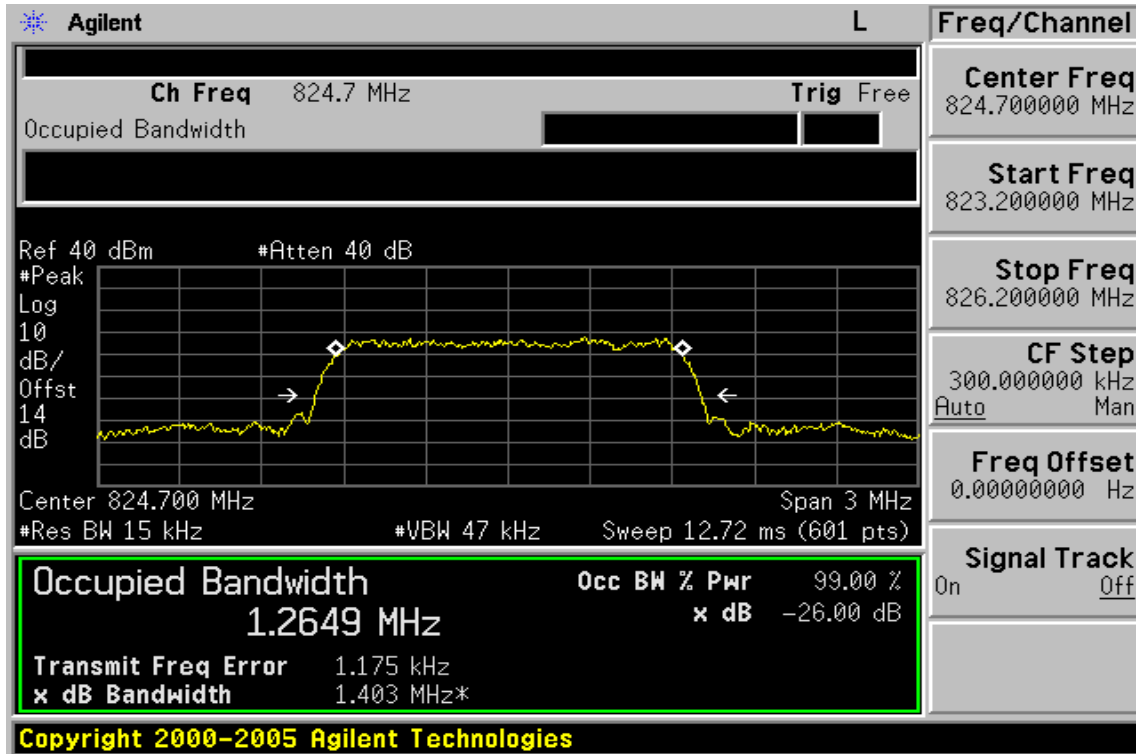
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### HSUPA V Channel High



### CDMA BC0 Channel Low



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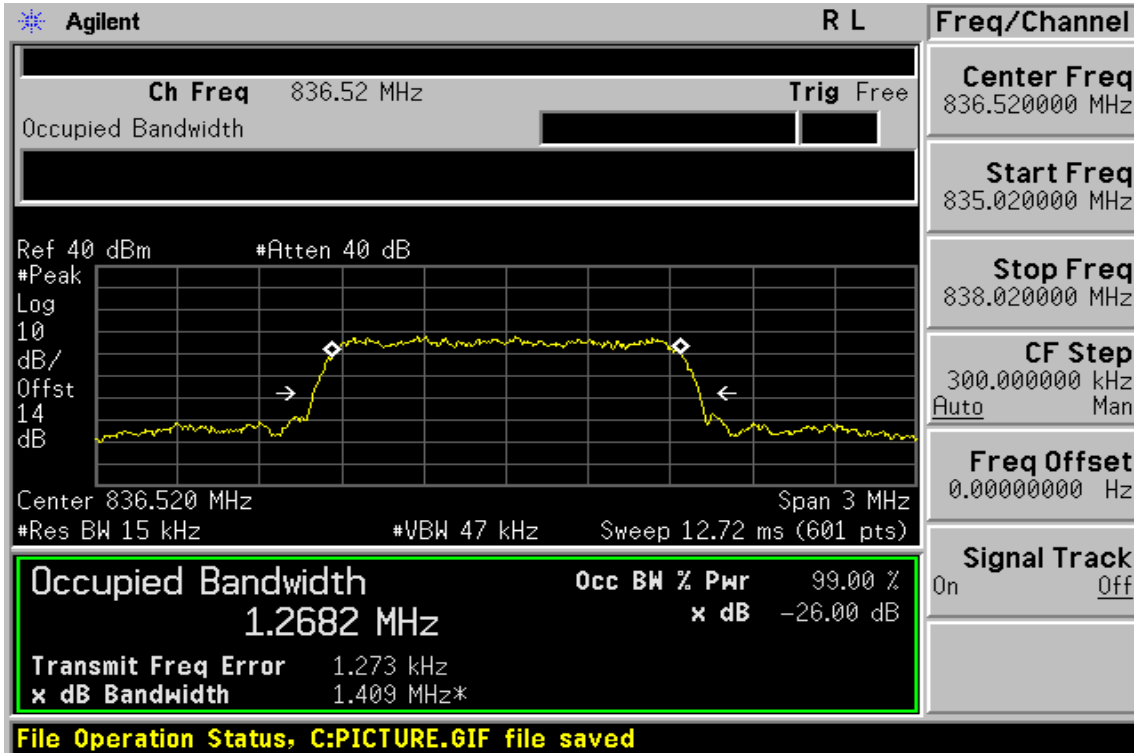
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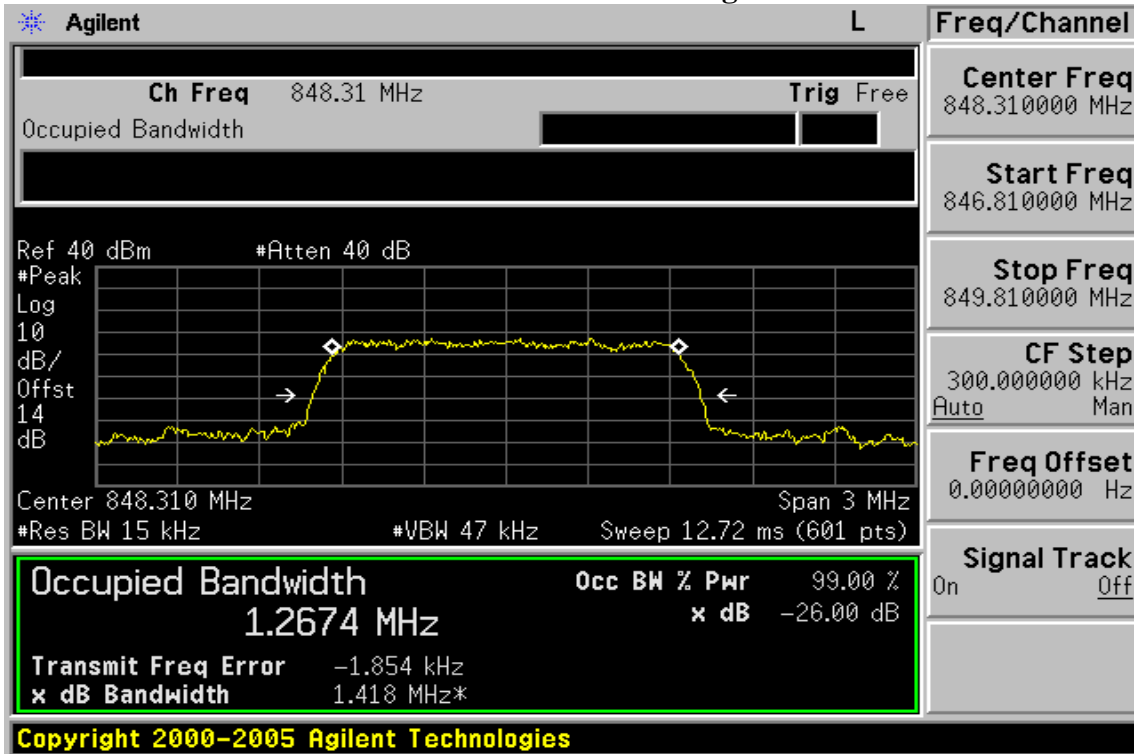
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CDMA BC0 Channel Mid



CDMA BC0 Channel High



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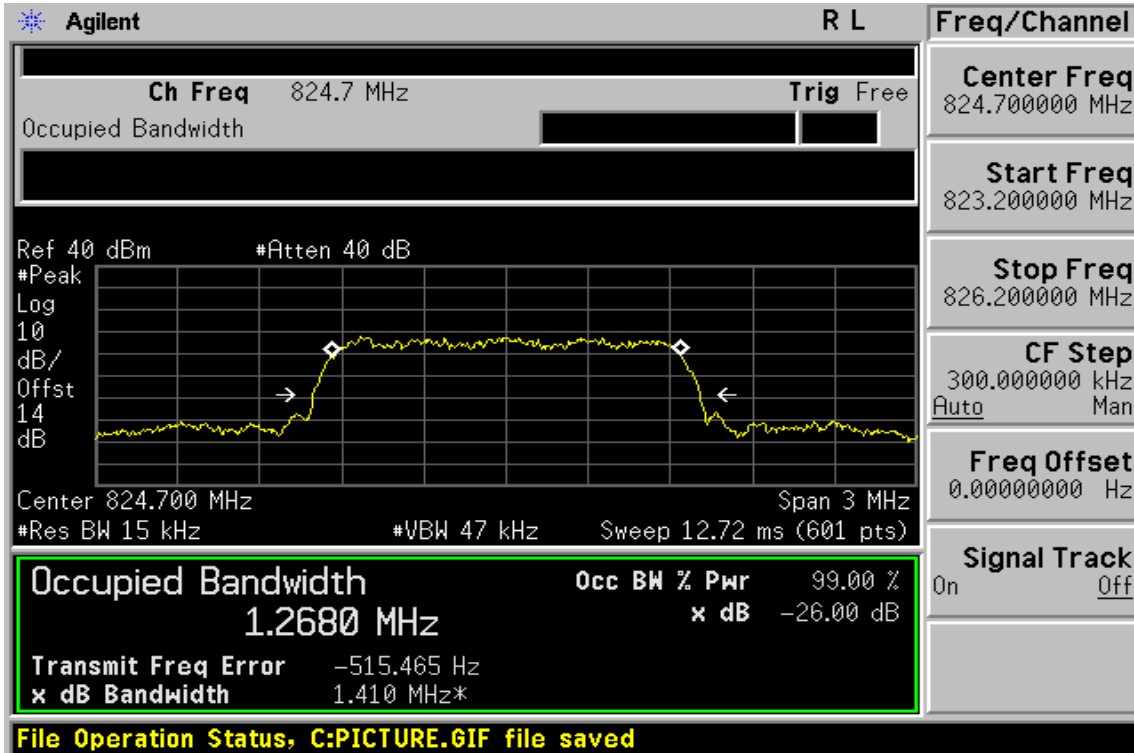
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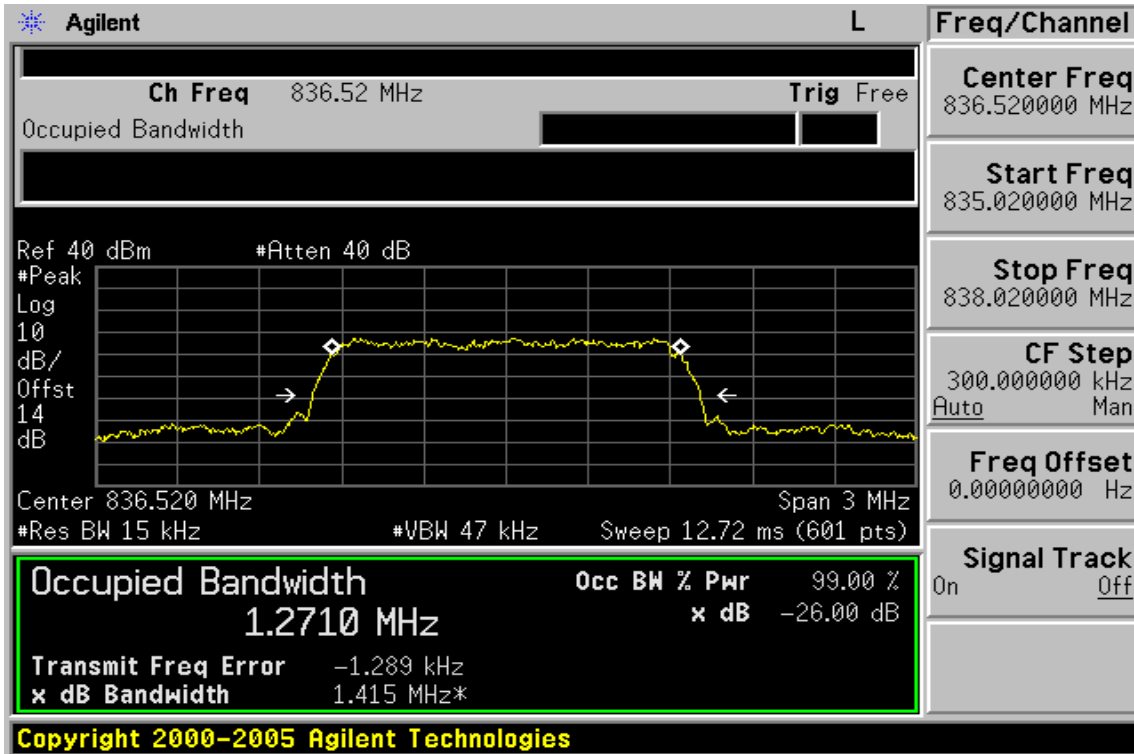
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**EVDO BC0 Channel Low**



**EVDO BC0 Channel Mid**



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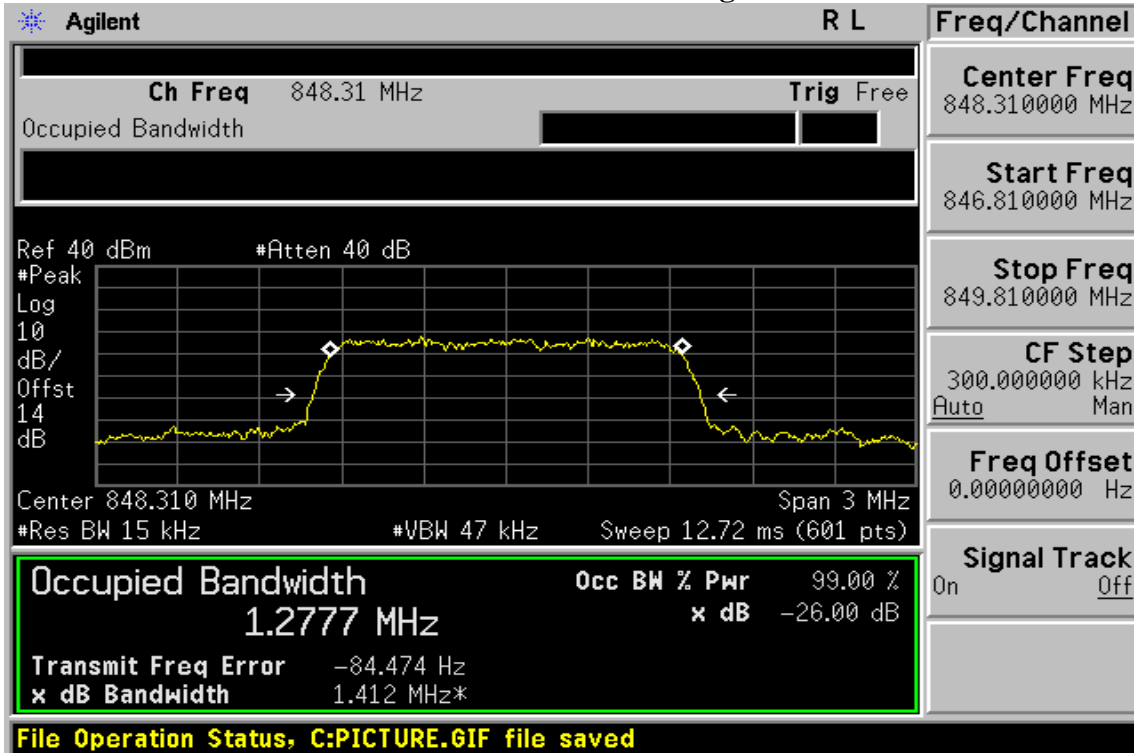
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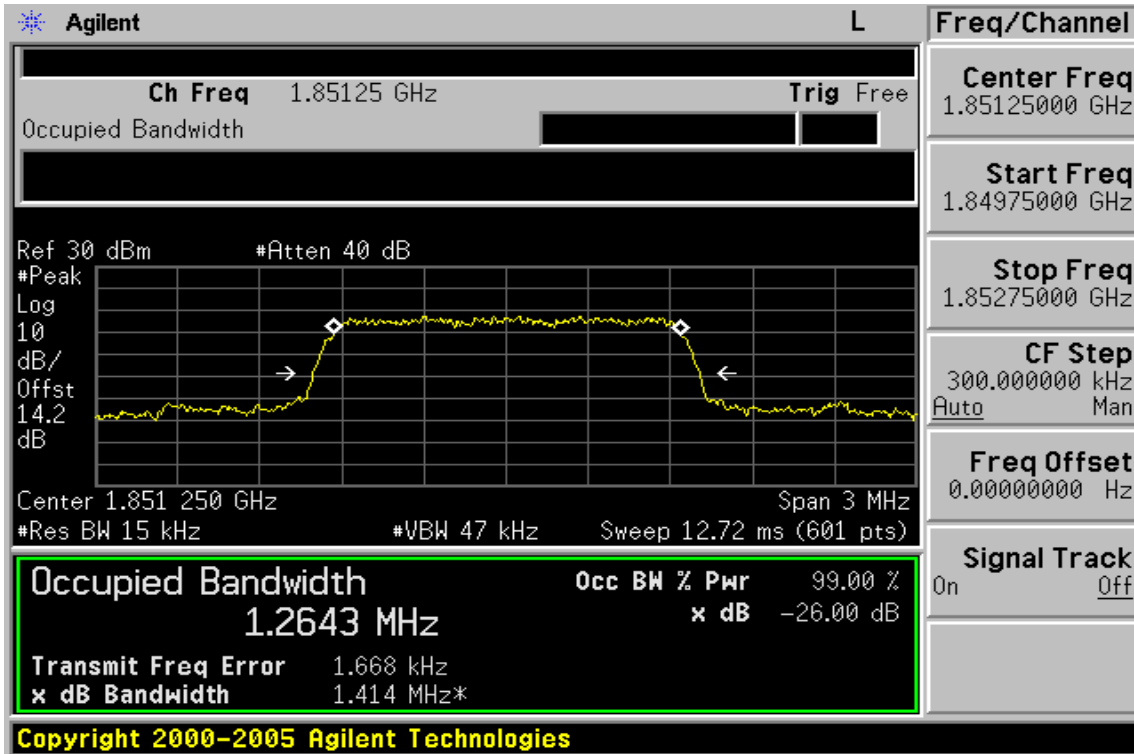
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**EVDO BC0 Channel High**



**CDMA BC1 Channel Low**



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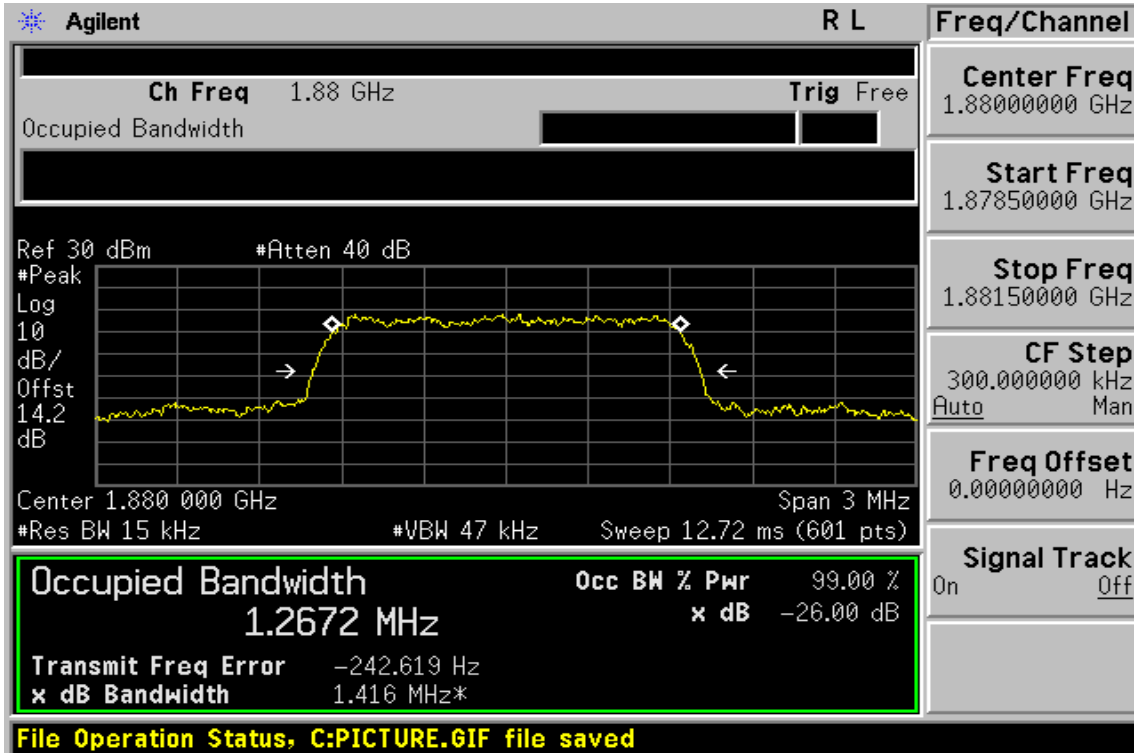
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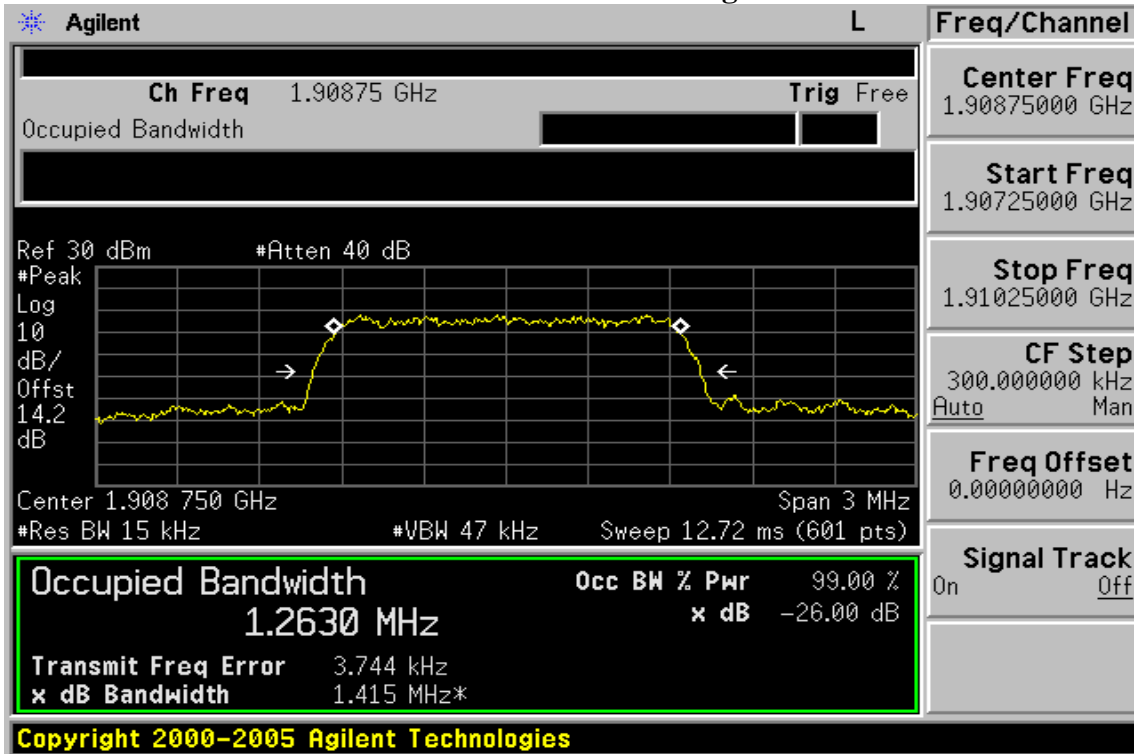
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CDMA BC1 Channel Mid



CDMA BC1 Channel High



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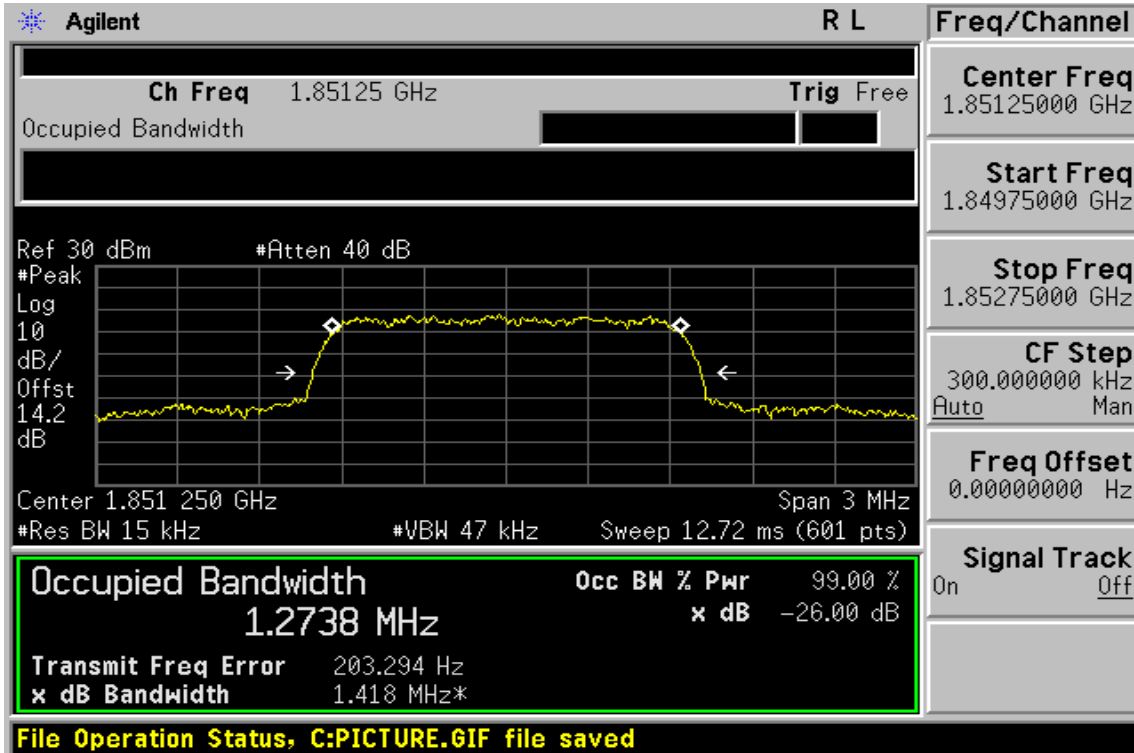
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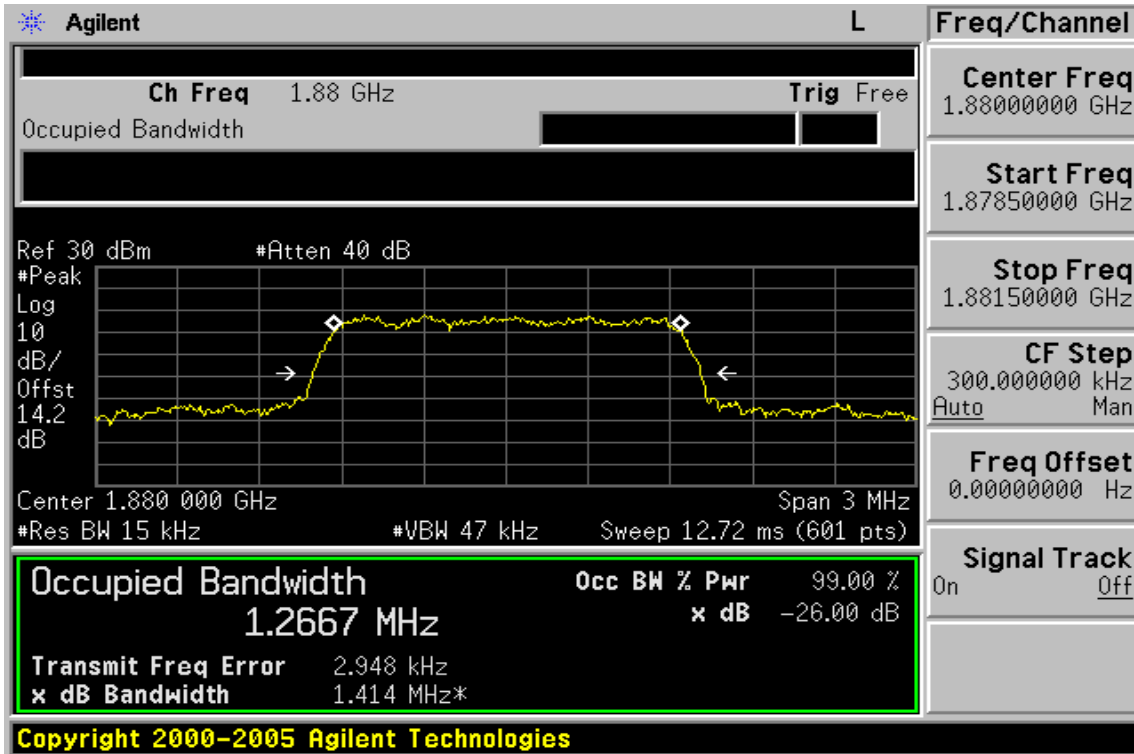
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**EVDO BC1 Channel Low**



**EVDO BC1 Channel Mid**



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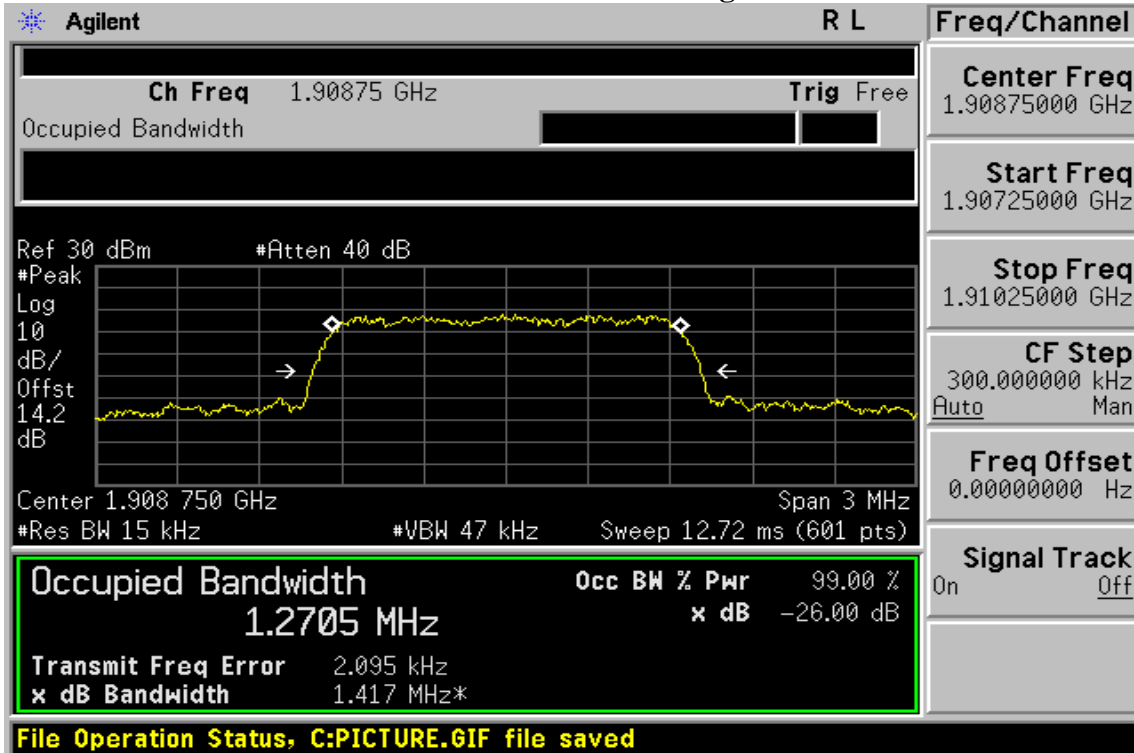
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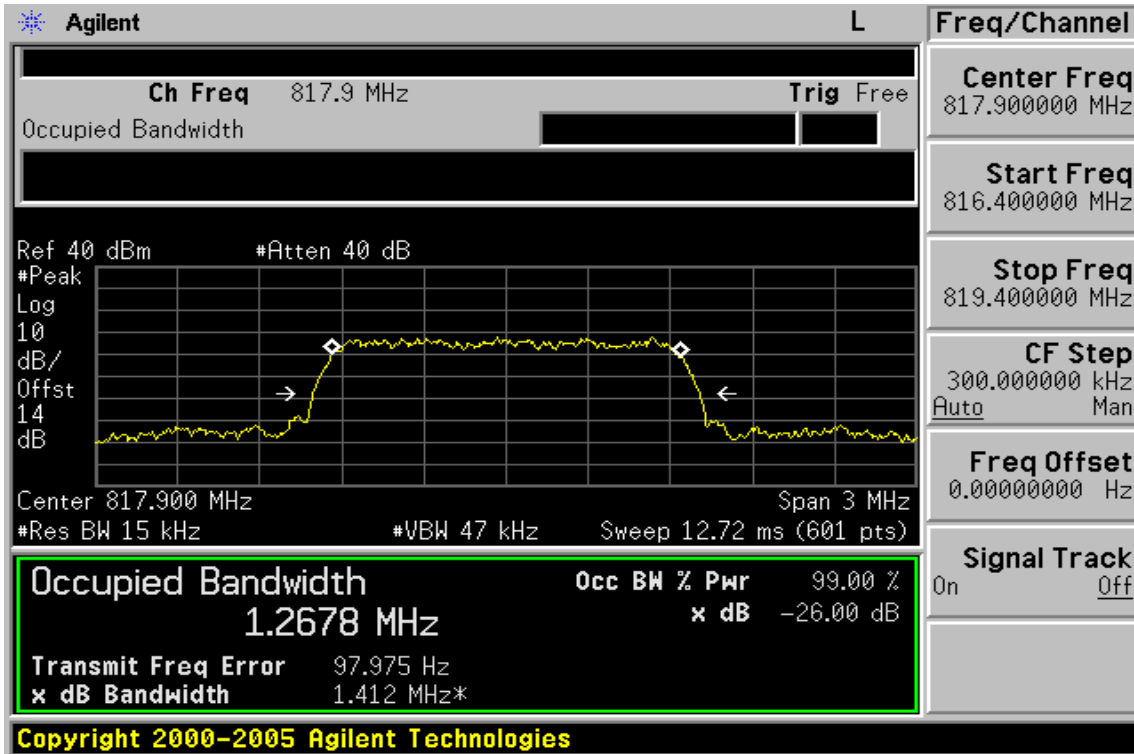
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**EVDO BC1 Channel High**



**CDMA BC10 Channel Low**



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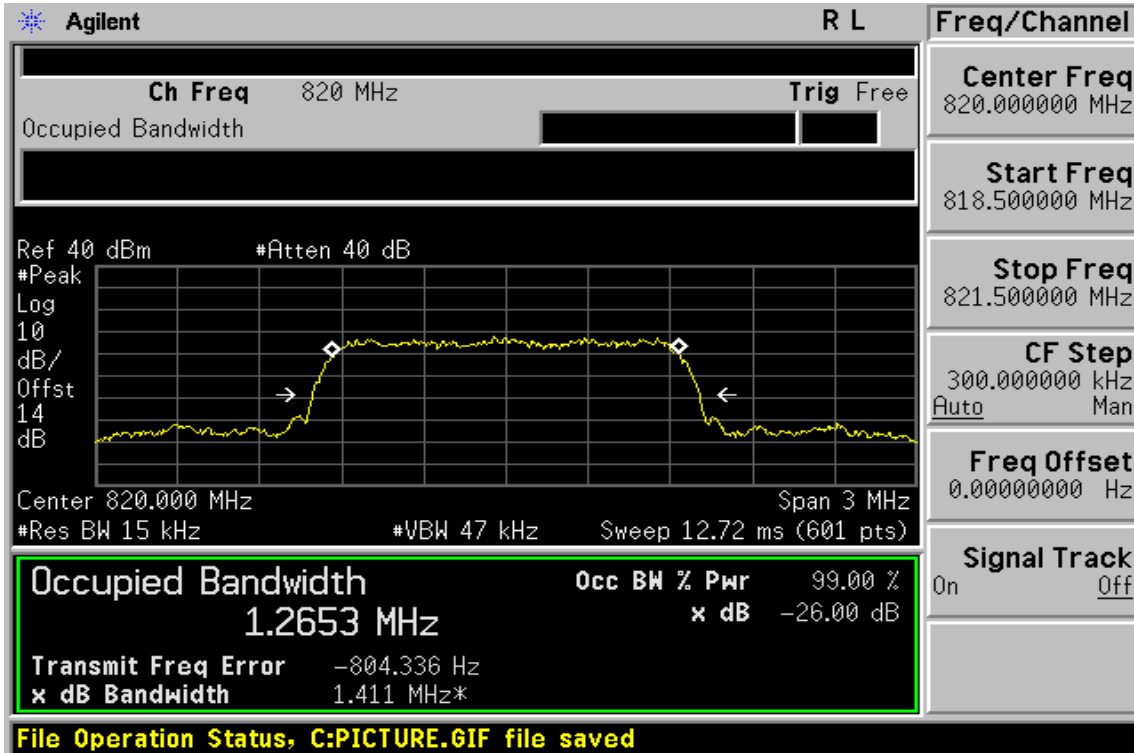
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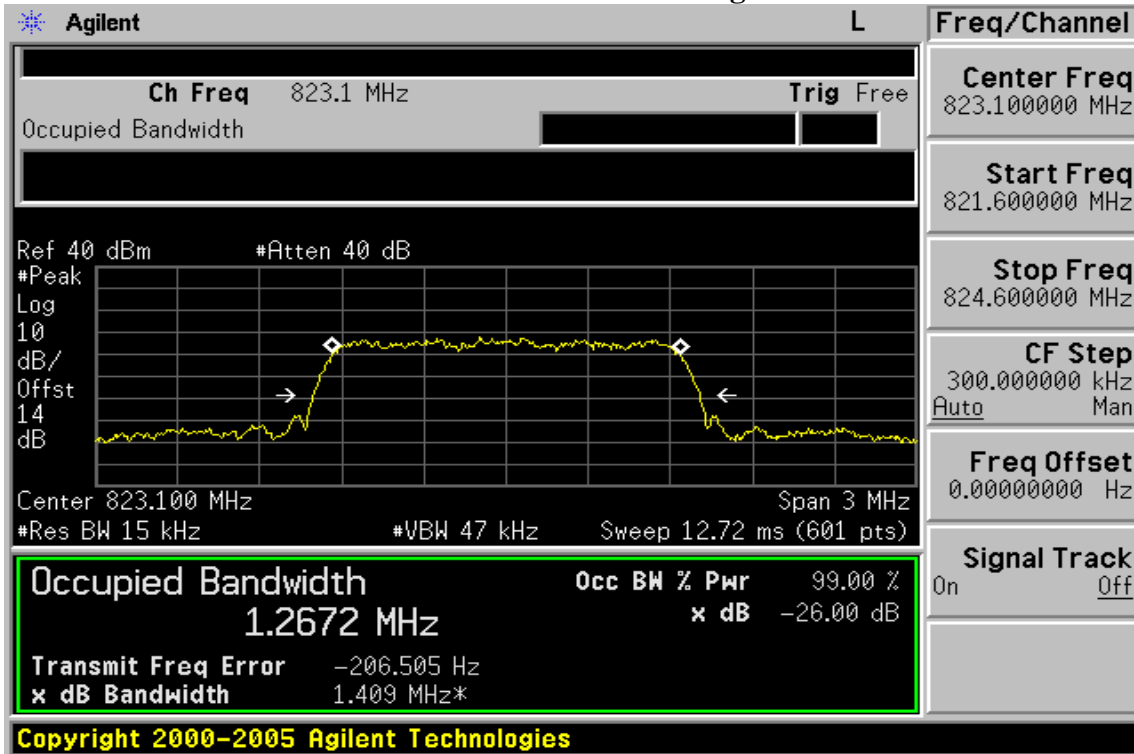
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**CDMA BC10 Channel Mid**



**CDMA BC10 Channel High**



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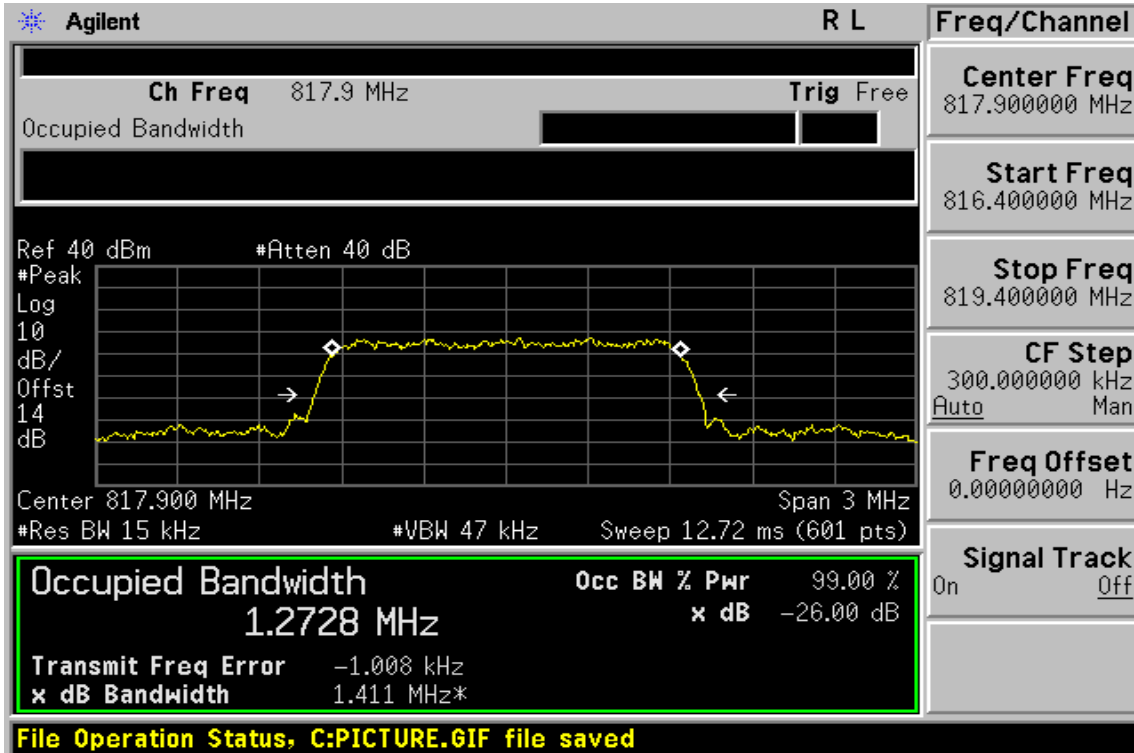
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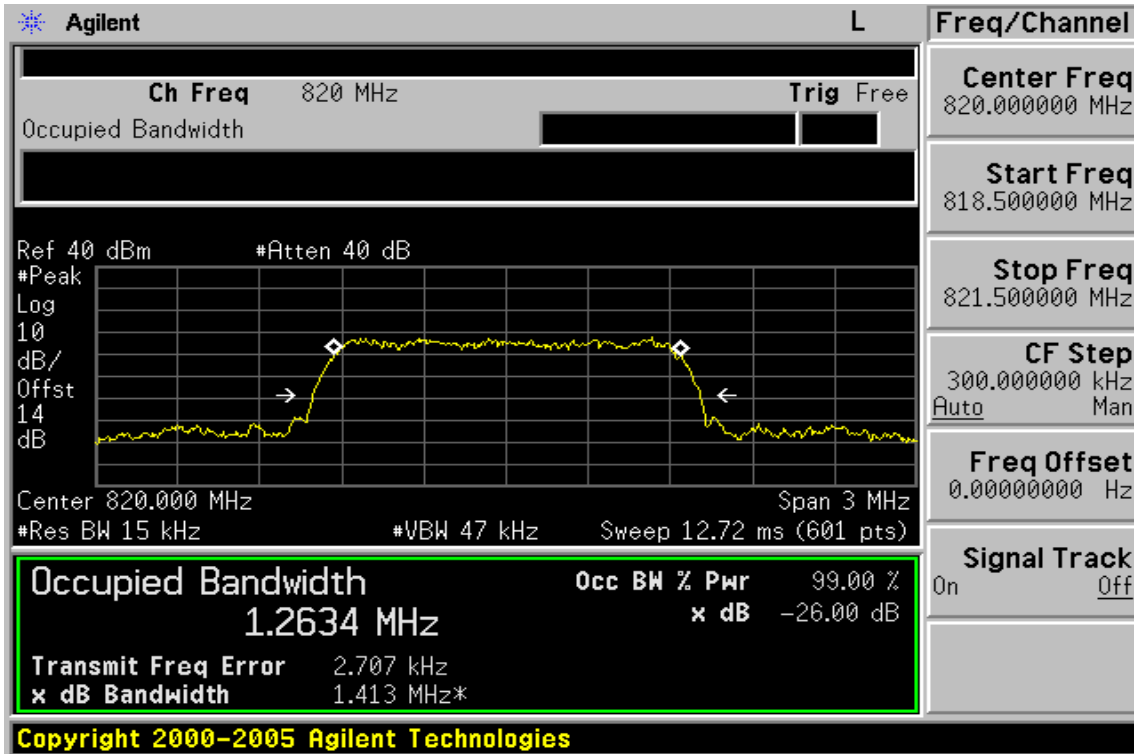
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**EVDO BC10 Channel Low**



**EVDO BC10 Channel Mid**



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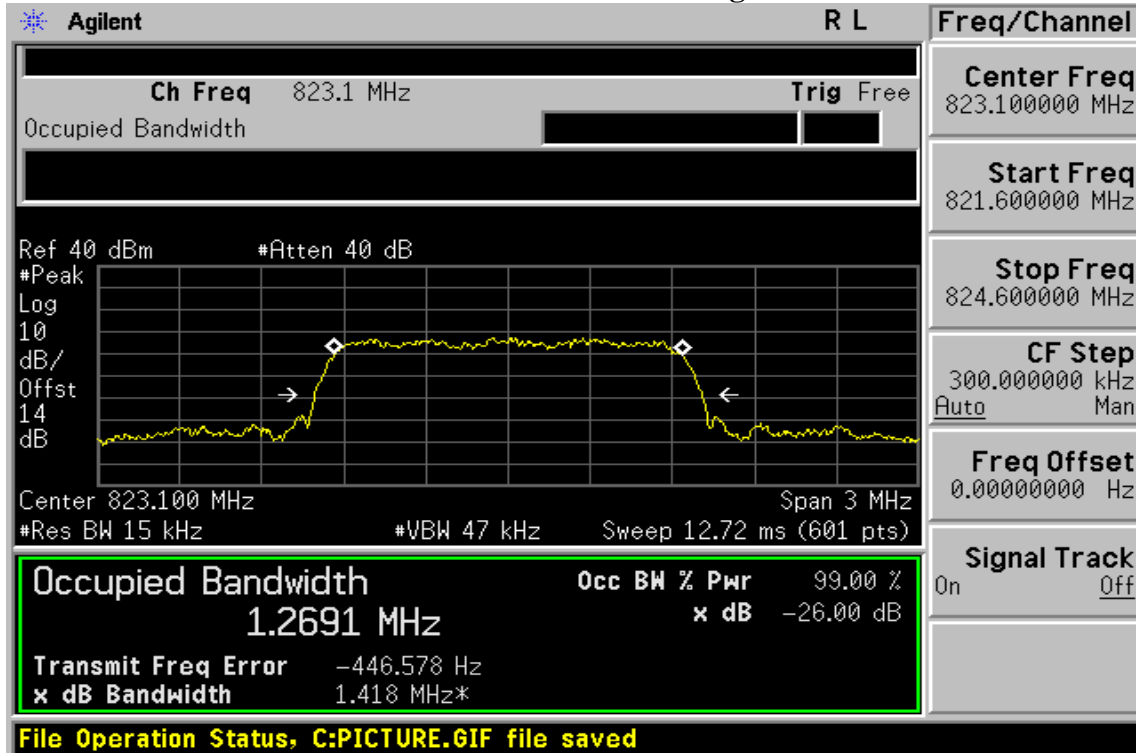
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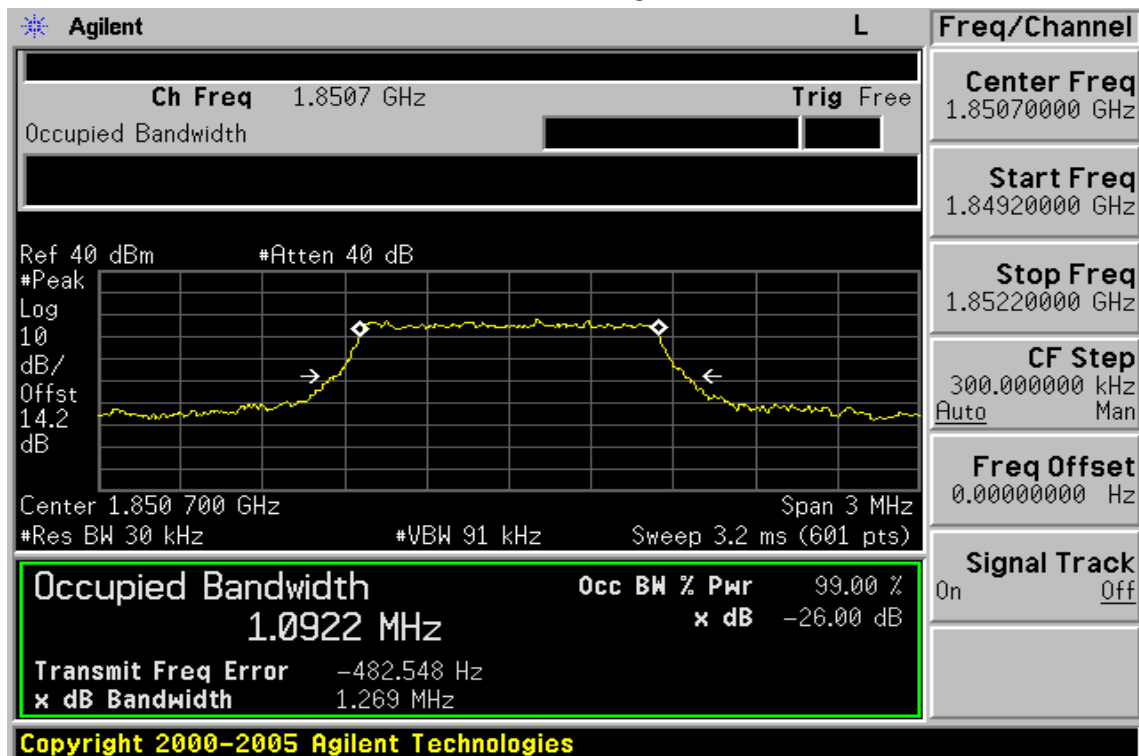
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**EVDO BC10 Channel High**



**1.4MHz BW LTE-Band 2 QPSK Channel Low**



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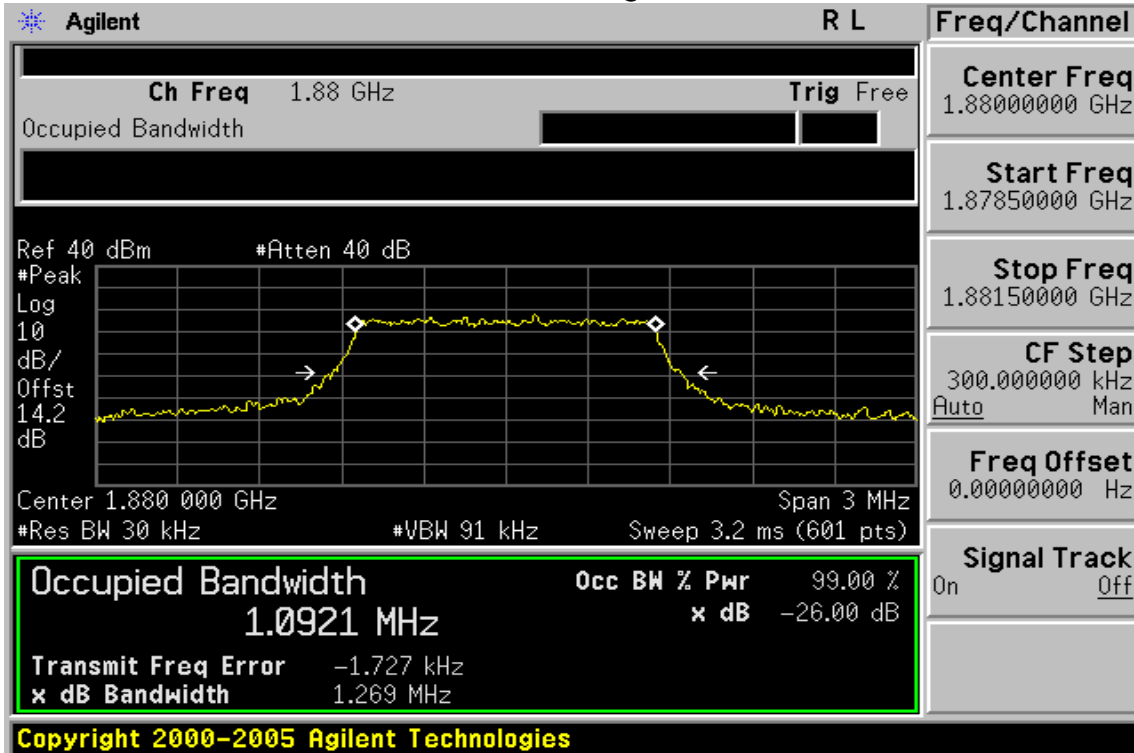
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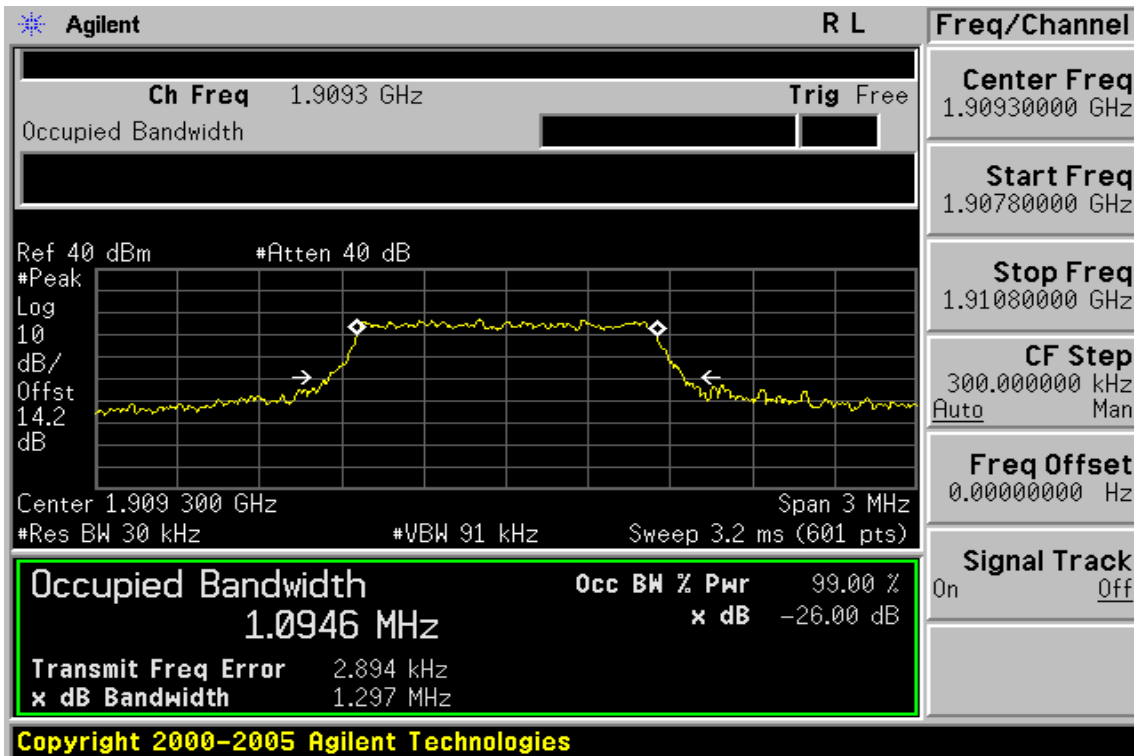
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**1.4MHz BW LTE-Band 2 QPSK Channel Mid**



**.4MHz BW LTE-Band 2 QPSK Channel High**



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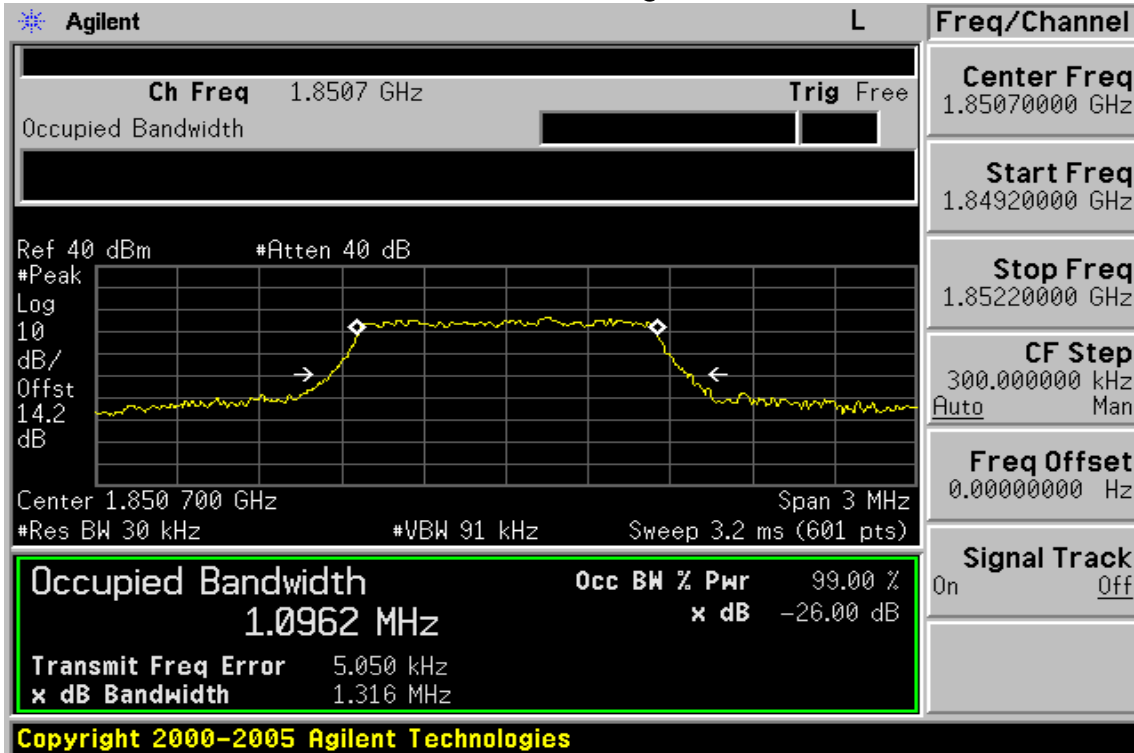
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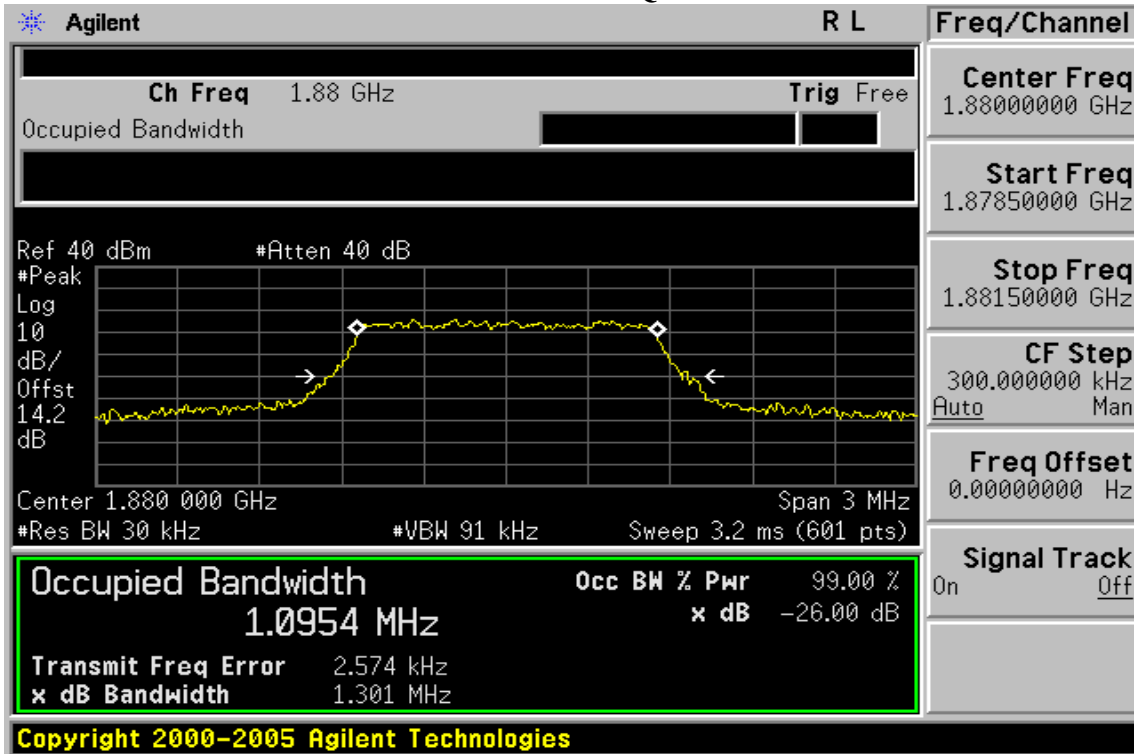
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1.4MHz BW LTE-Band 2 16QAM Channel Low



1.4MHz BW LTE-Band 2 16QAM Channel Mid



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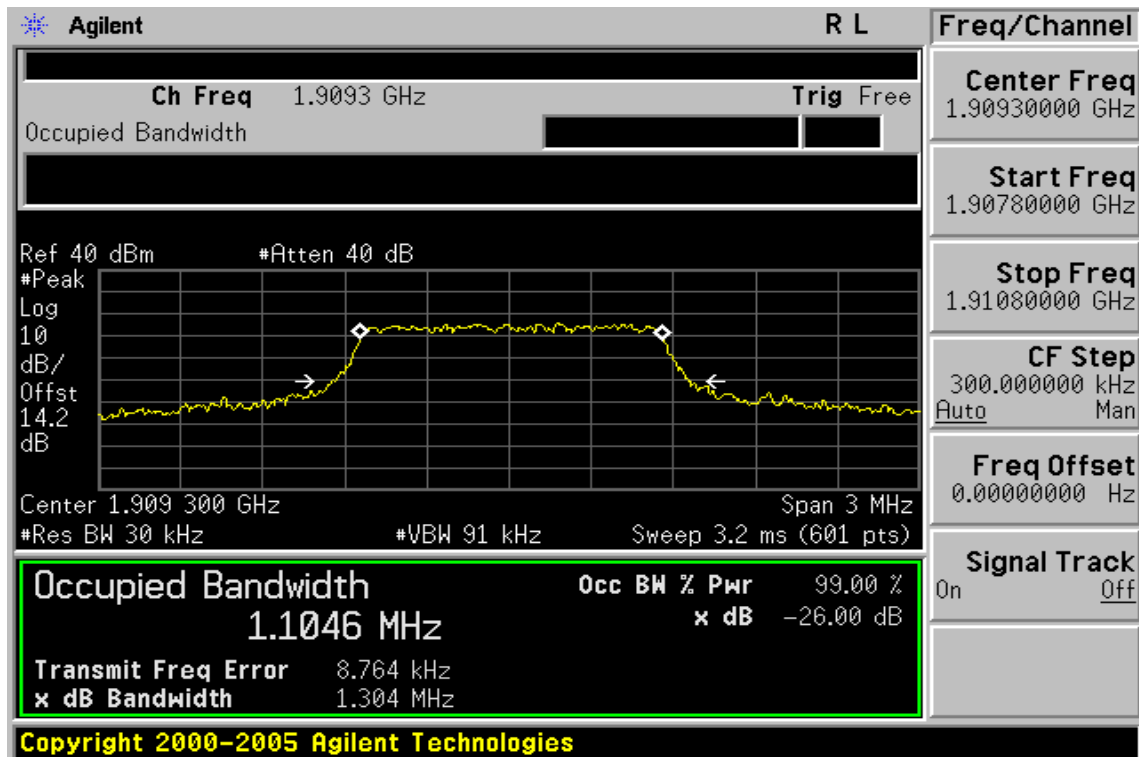
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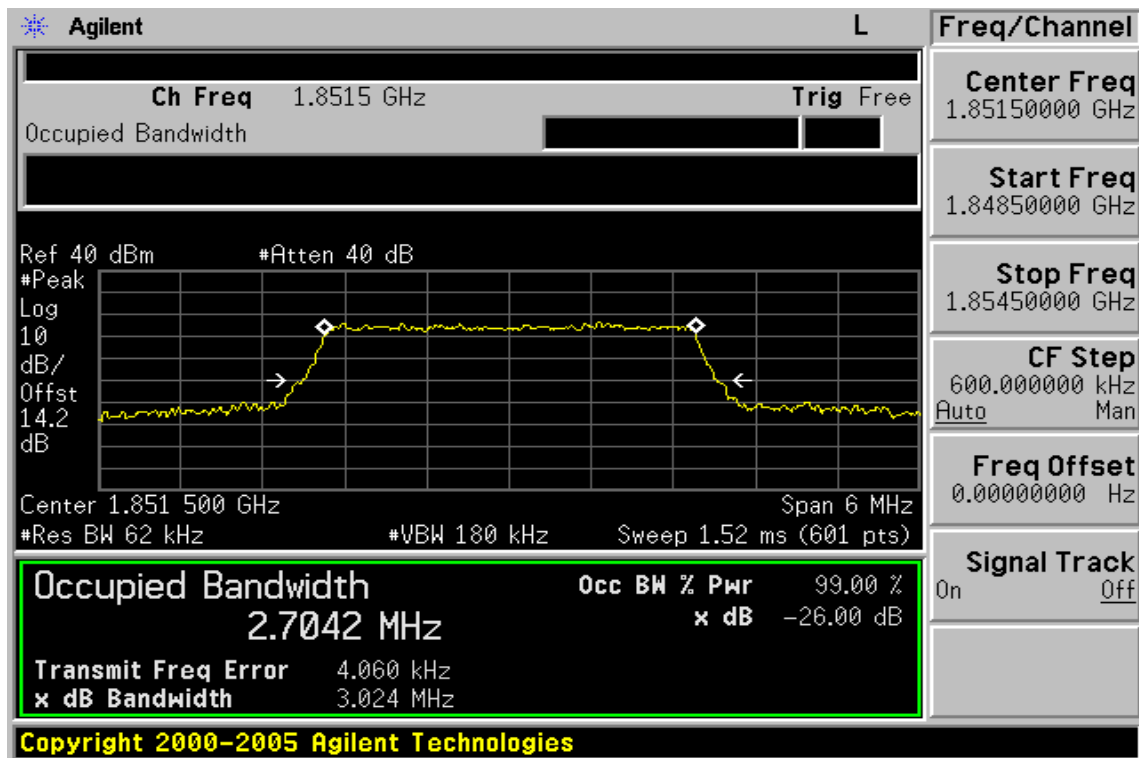
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1.4MHz BW LTE-Band 2 16QAM Channel High



3MHz BW LTE-Band 2 QPSK Channel Low



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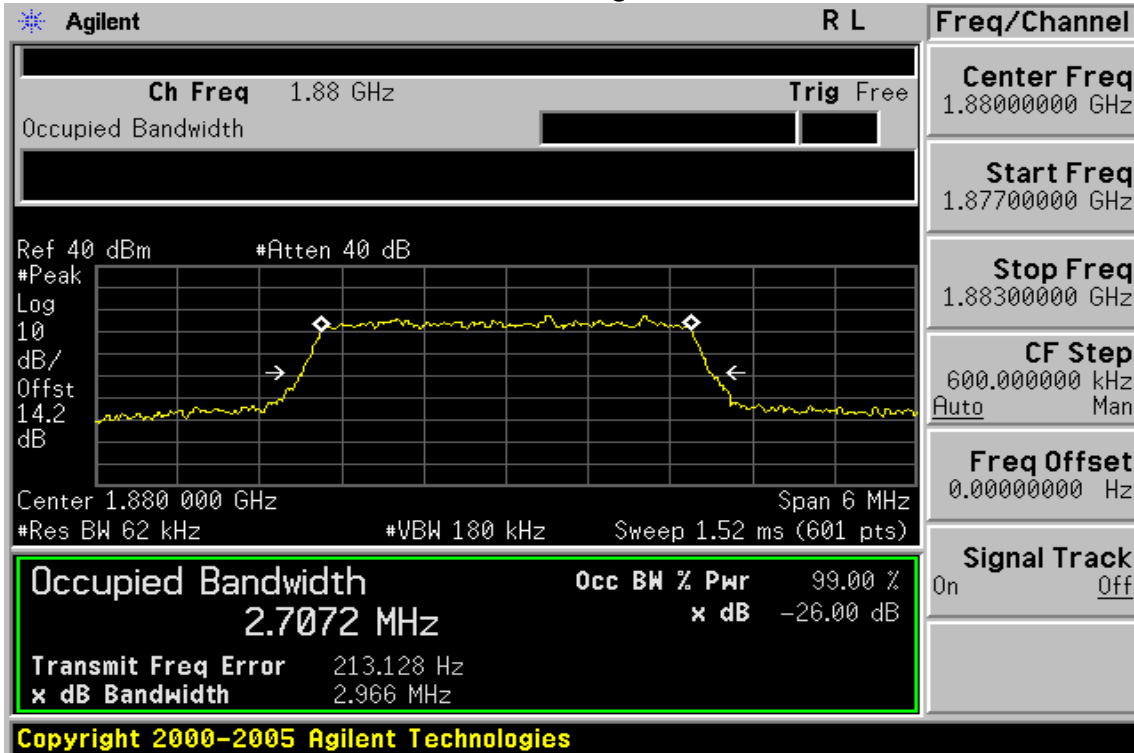
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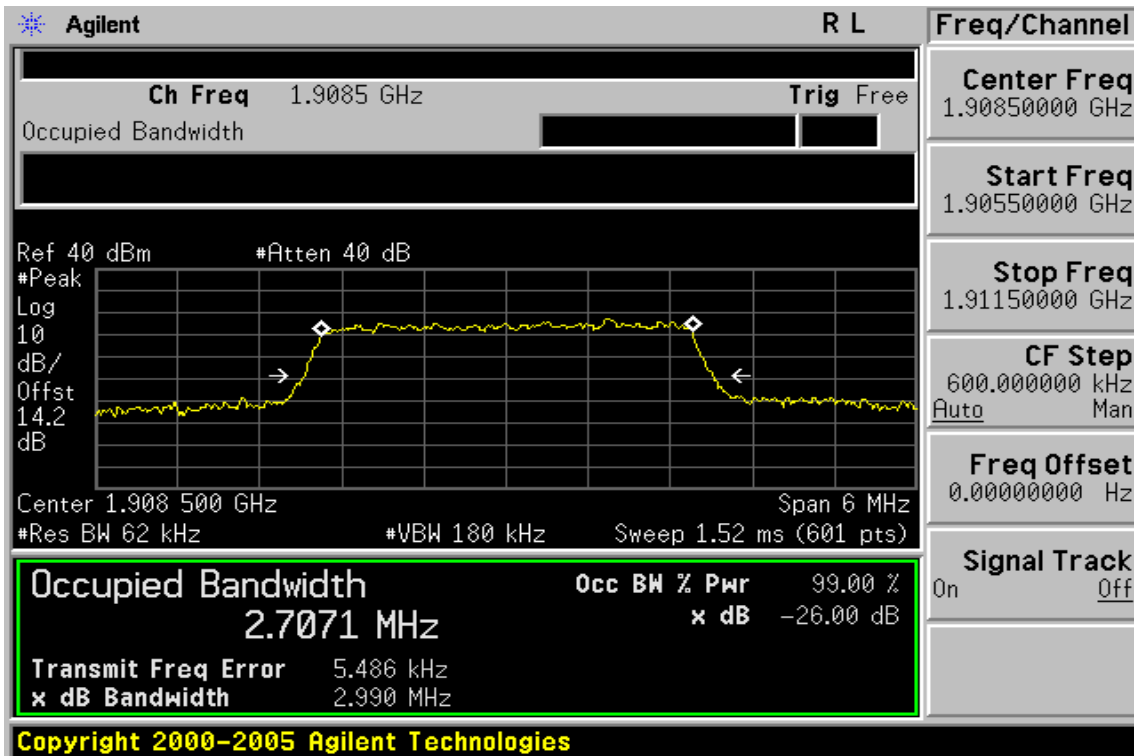
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3MHz BW LTE-Band 2 QPSK Channel Mid



3MHz BW LTE-Band 2 QPSK Channel High



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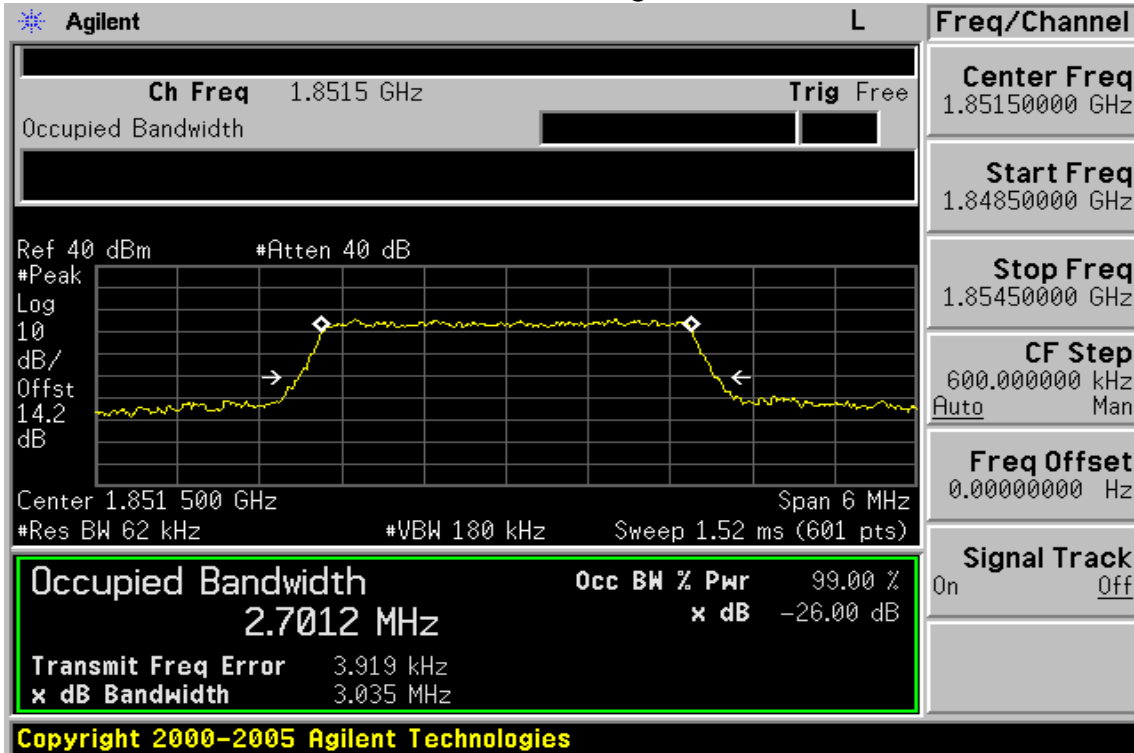
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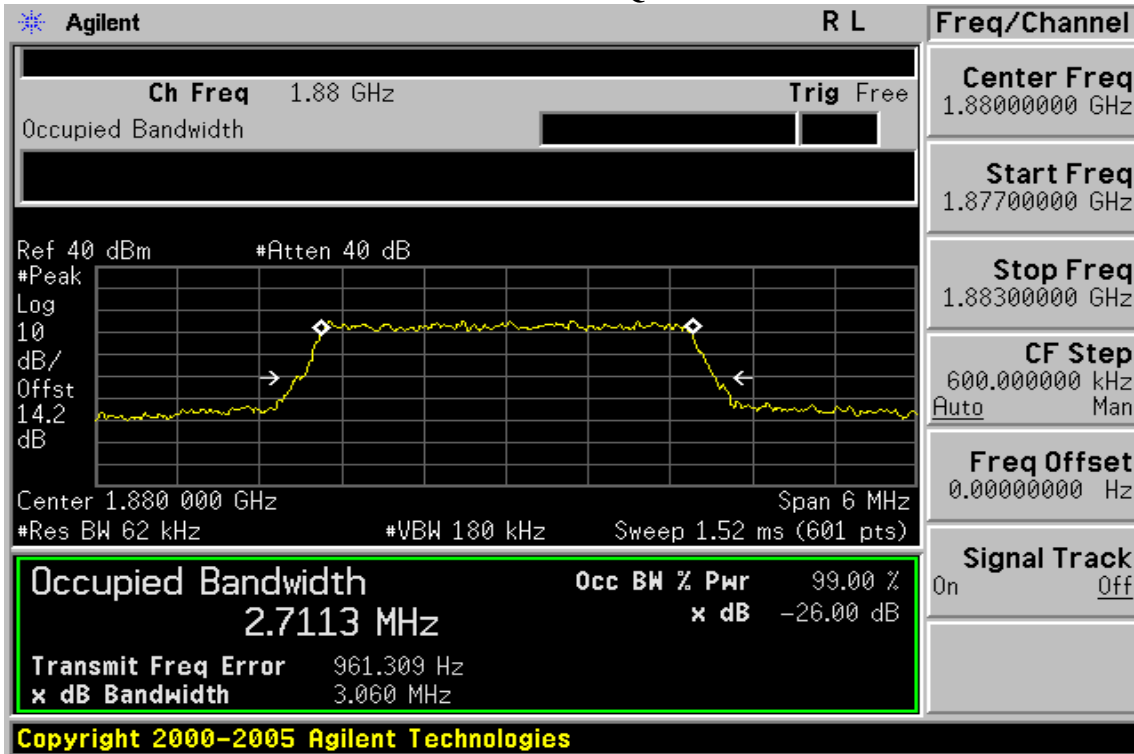
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3MHz BW LTE-Band 2 16QAM Channel Low



3MHz BW LTE-Band 2 16QAM Channel Mid



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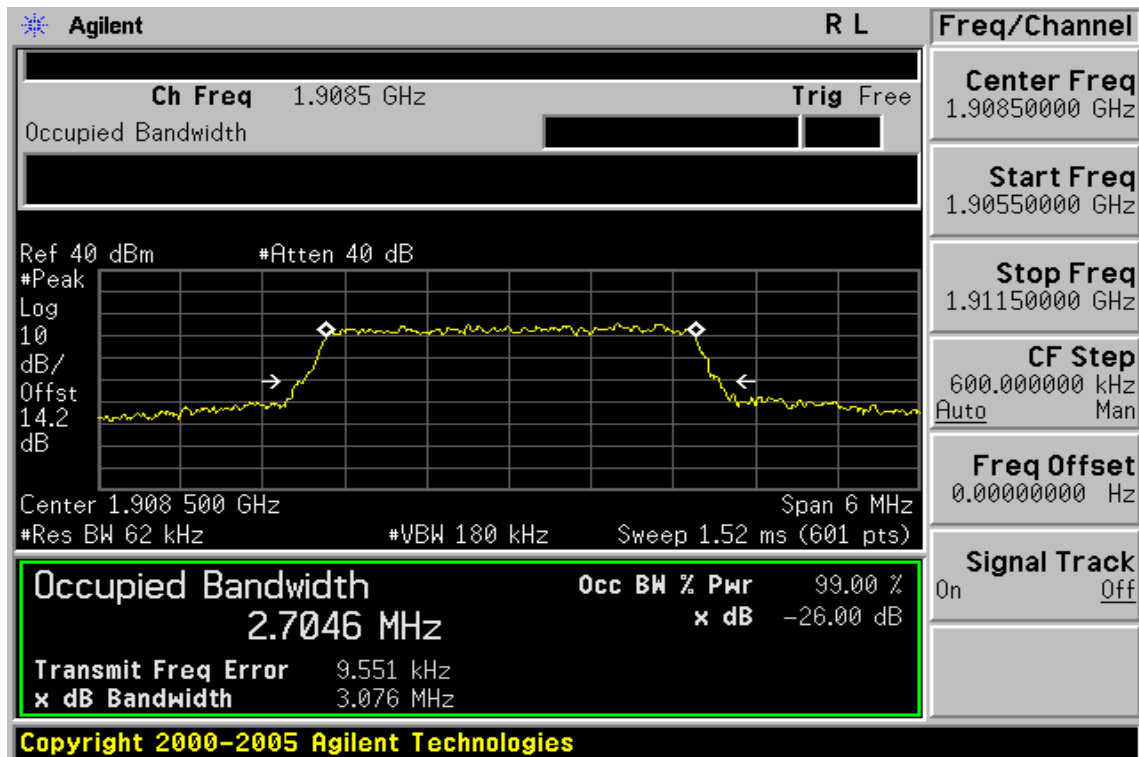
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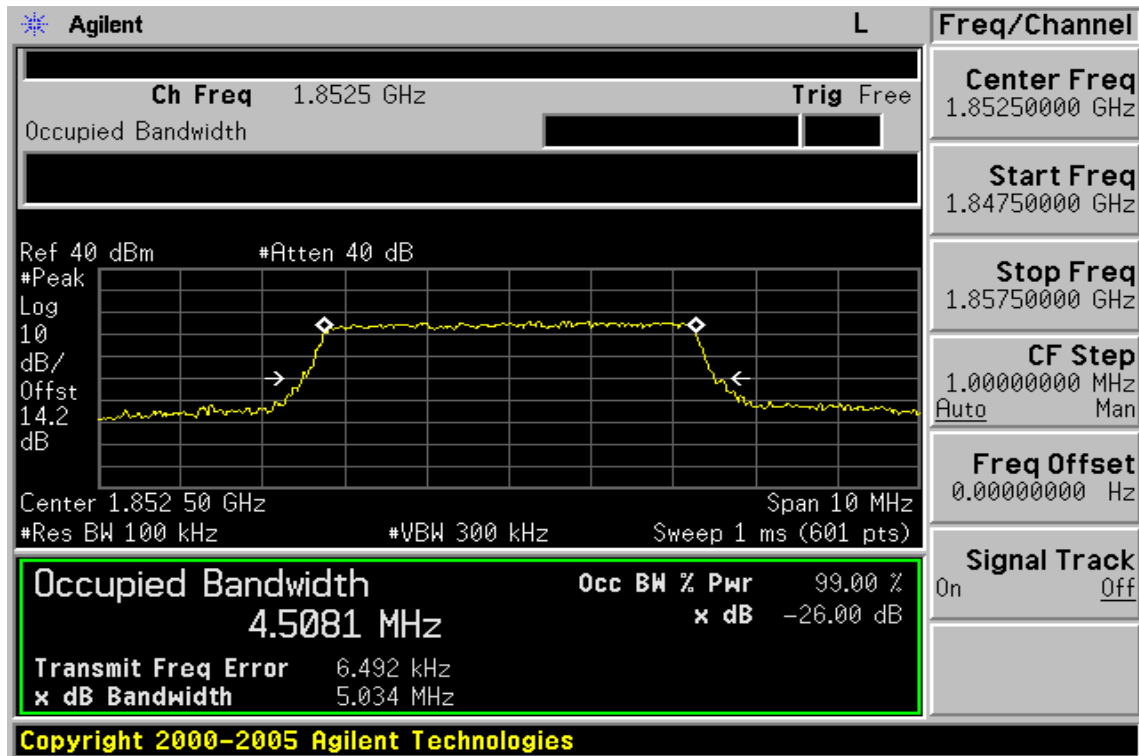
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**3MHz BW LTE-Band 2 16QAM Channel High**



**5MHz BW LTE-Band 2 QPSK Channel Low**



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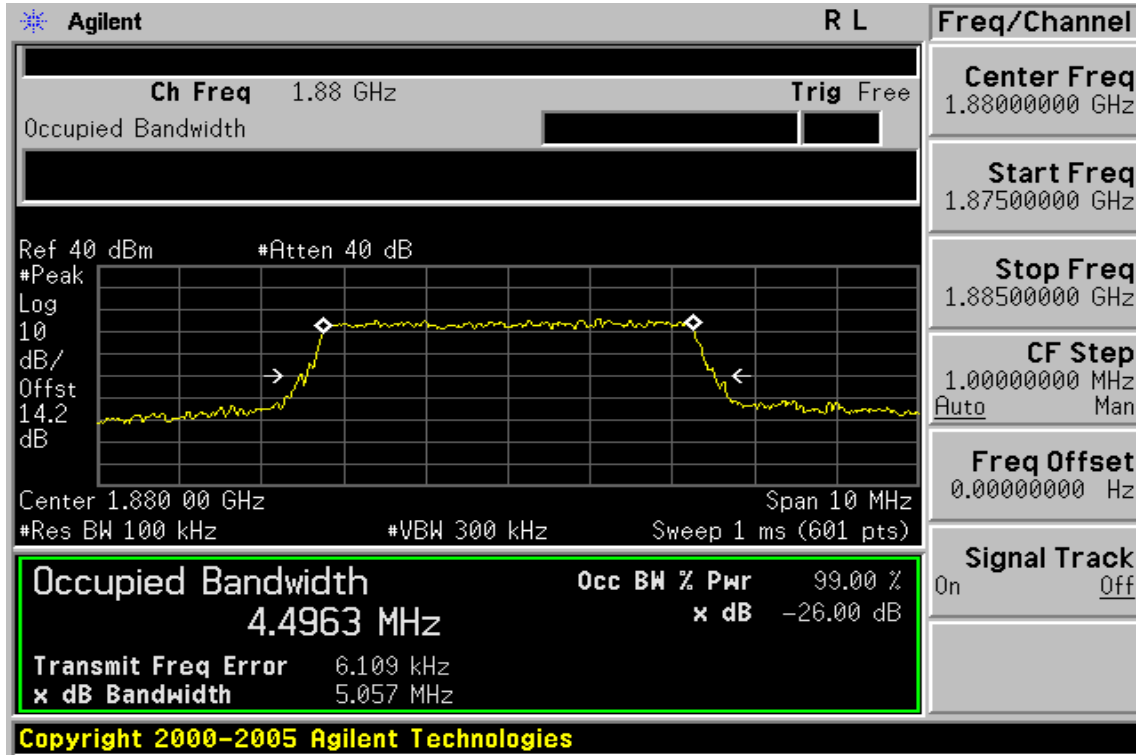
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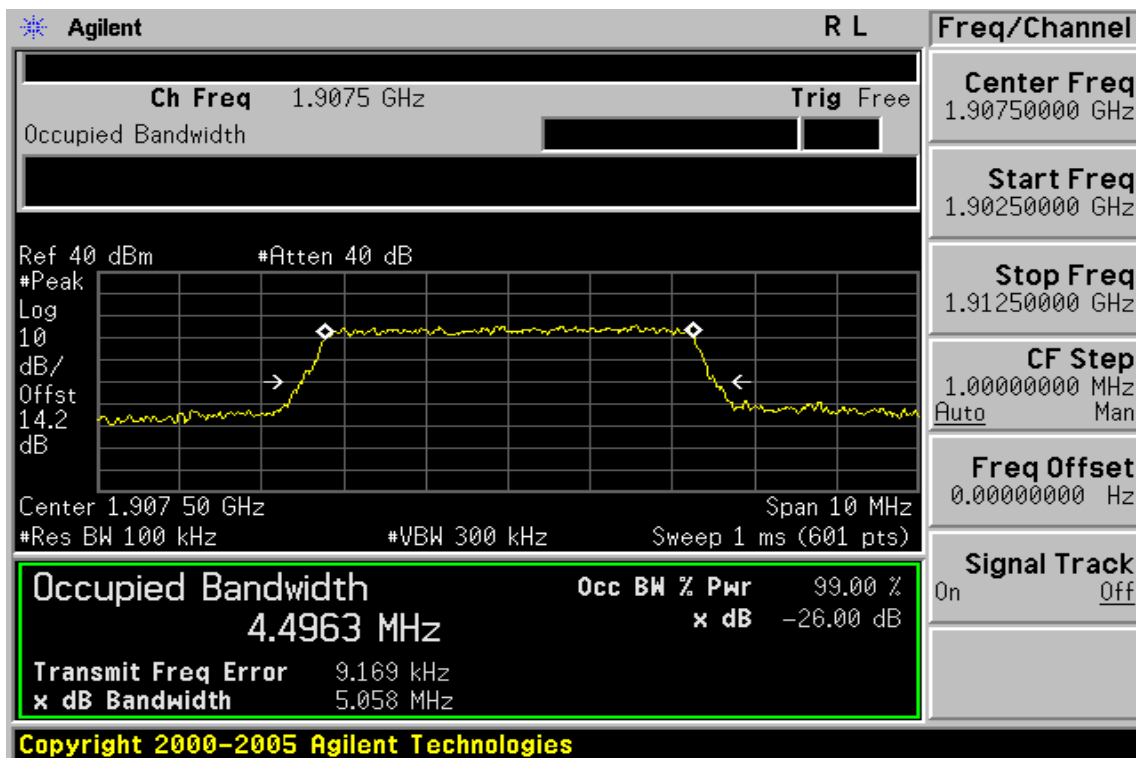
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5MHz BW LTE-Band 2 QPSK Channel Mid



5MHz BW LTE-Band 2 QPSK Channel High



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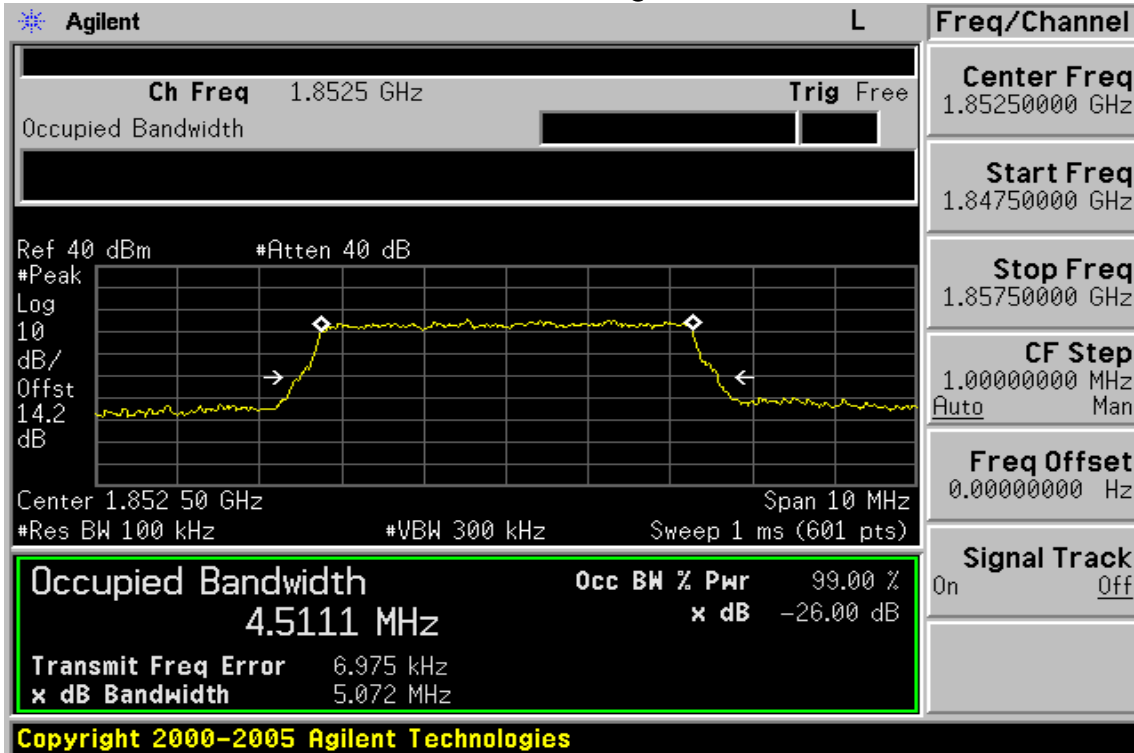
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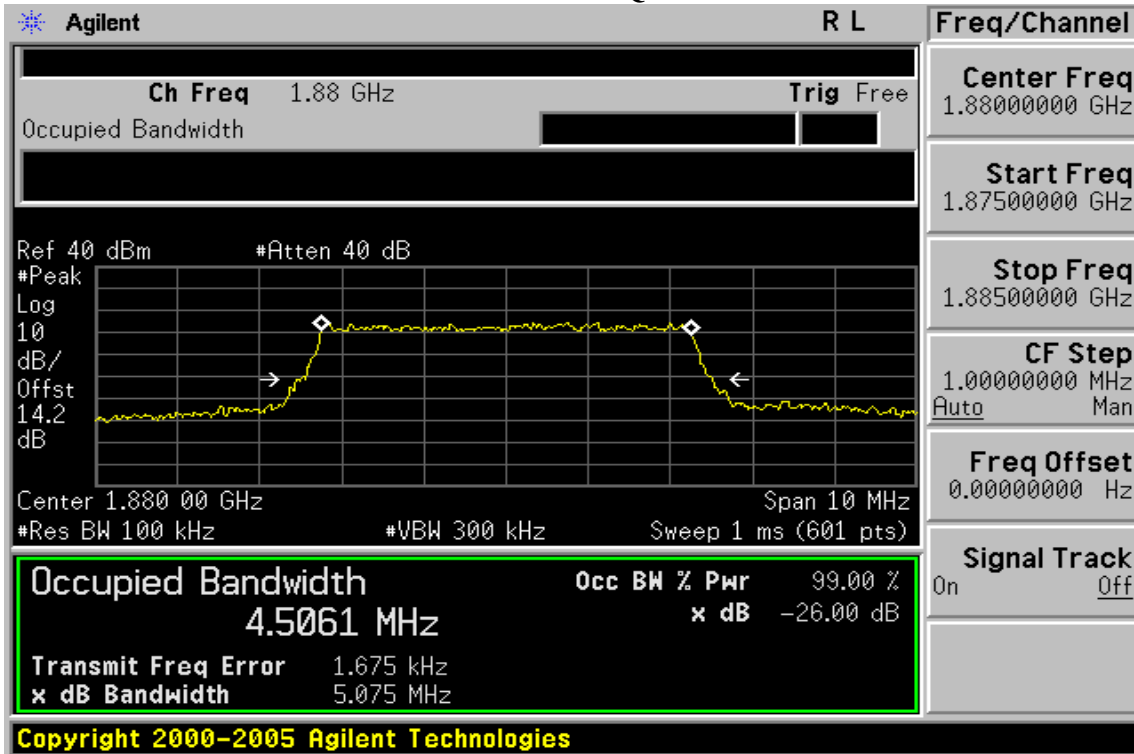
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5MHz BW LTE-Band 2 16QAM Channel Low



5MHz BW LTE-Band 2 16QAM Channel Mid



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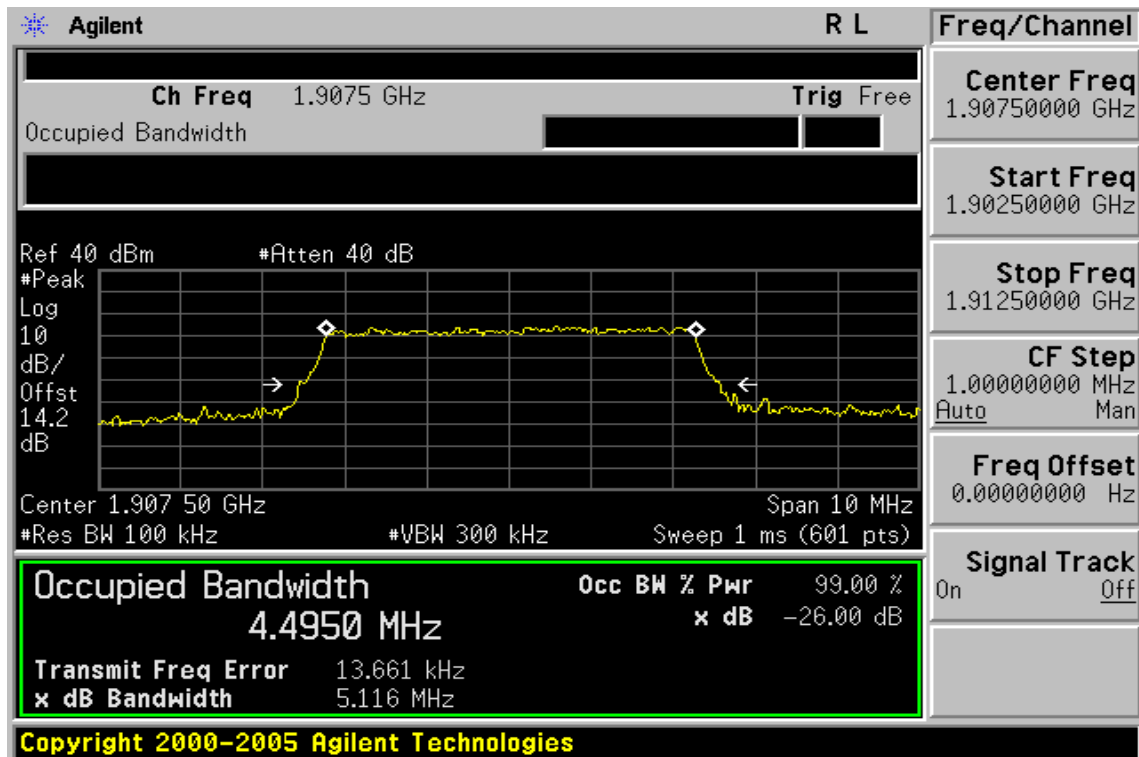
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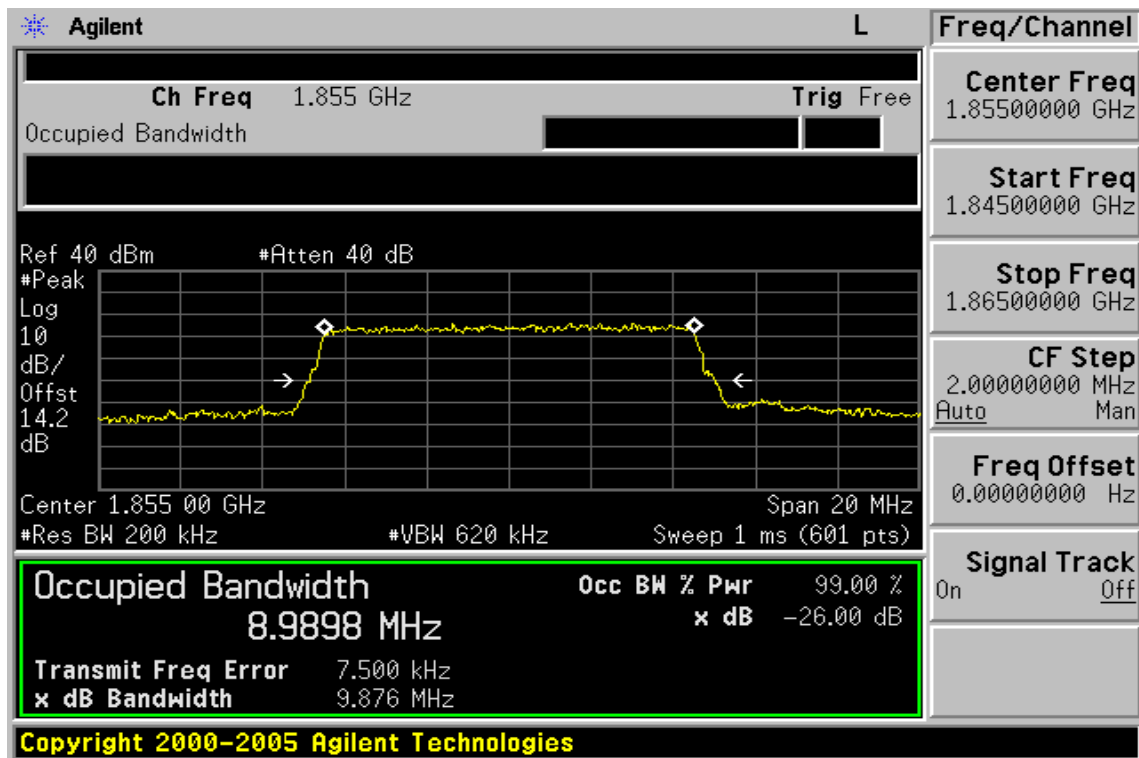
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**5MHz BW LTE-Band 2 16QAM Channel High**



**10MHz BW LTE-Band 2 QPSK Channel Low**



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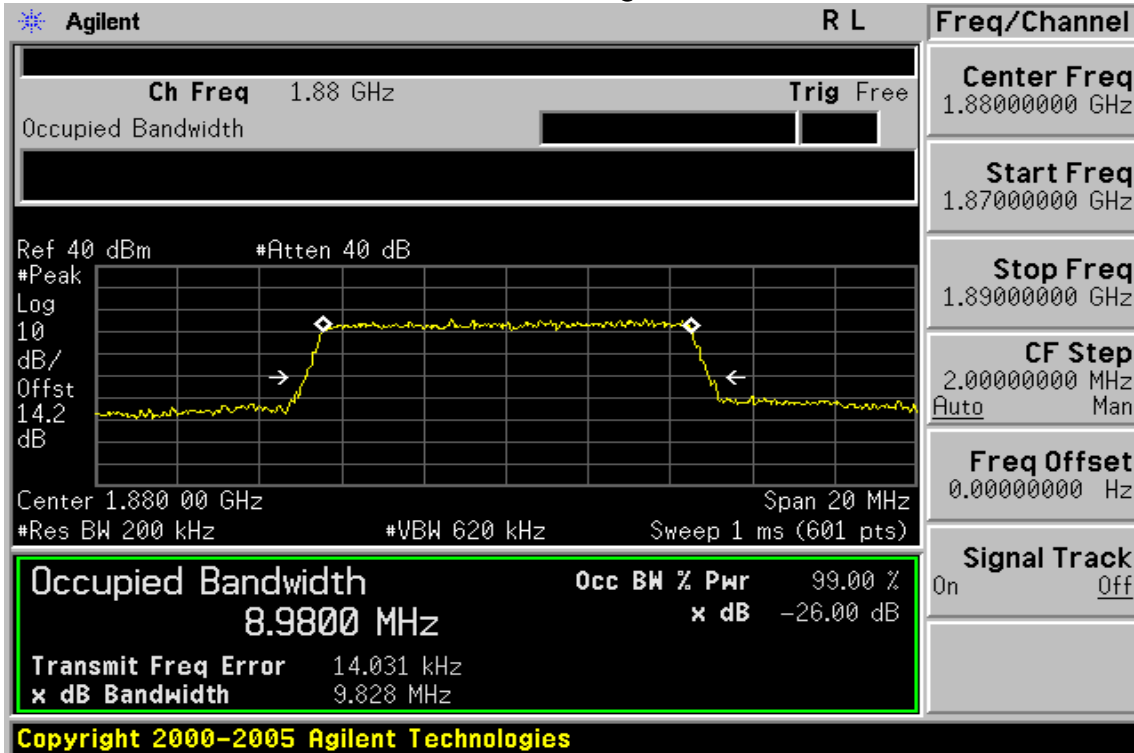
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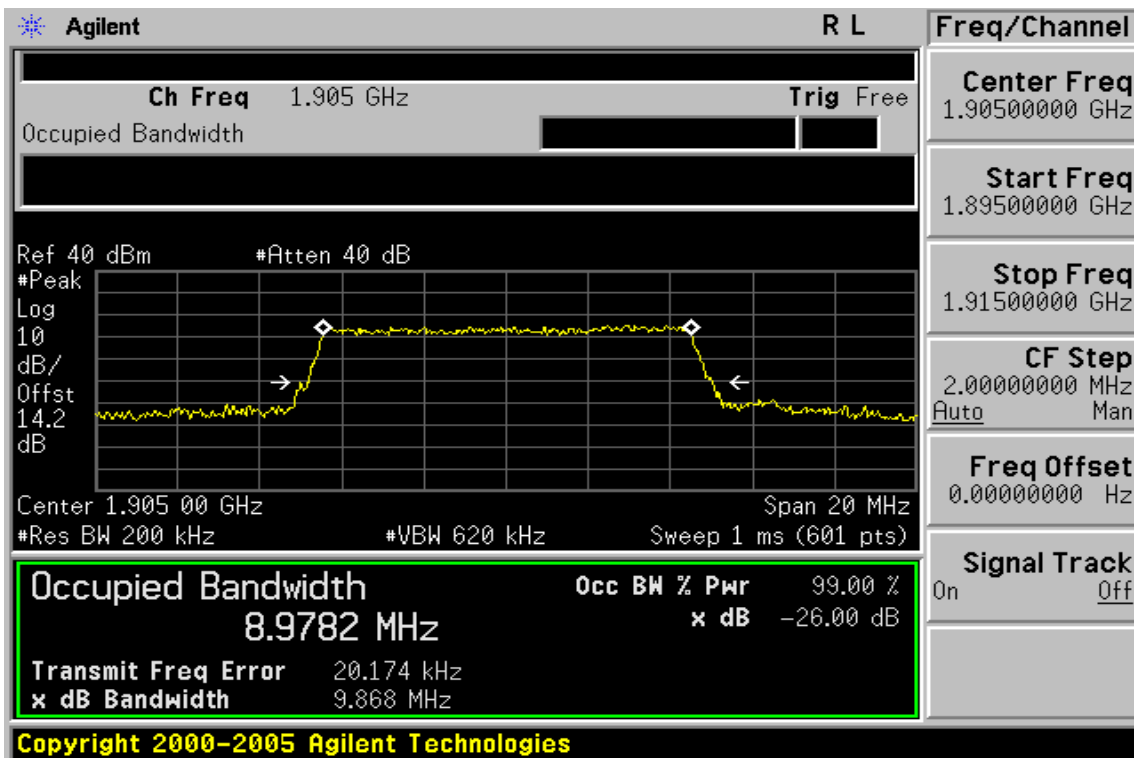
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10MHz BW LTE-Band 2 QPSK Channel Mid



10MHz BW LTE-Band 2 QPSK Channel High



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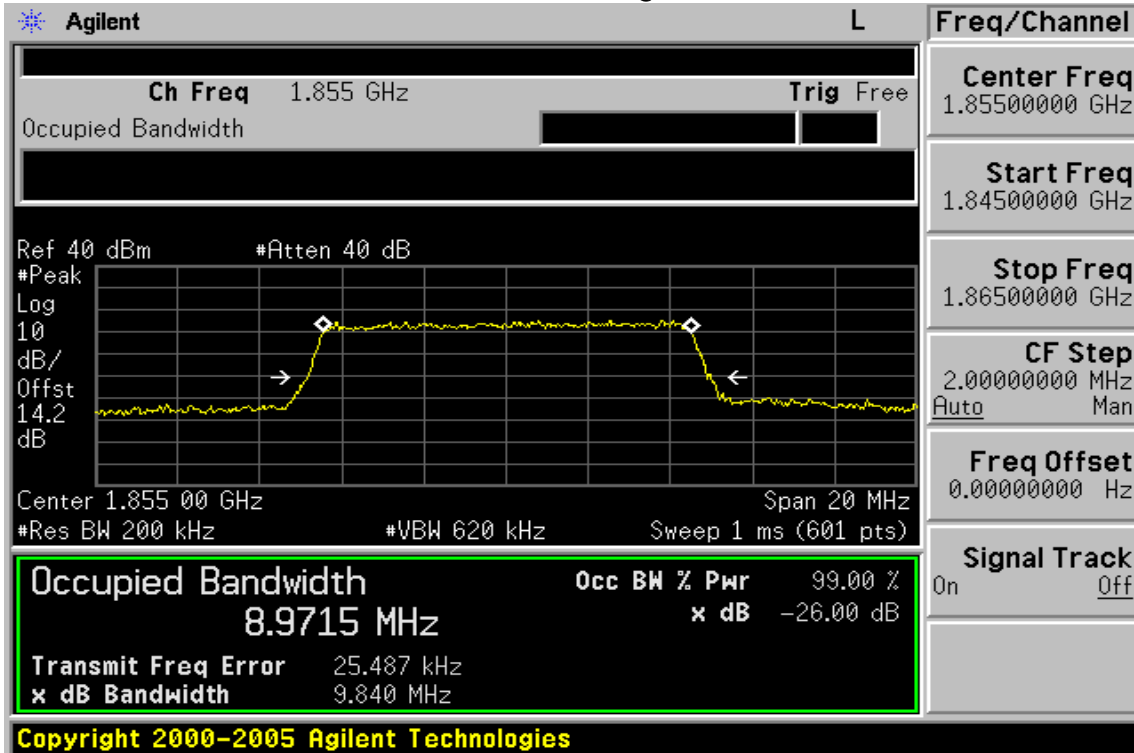
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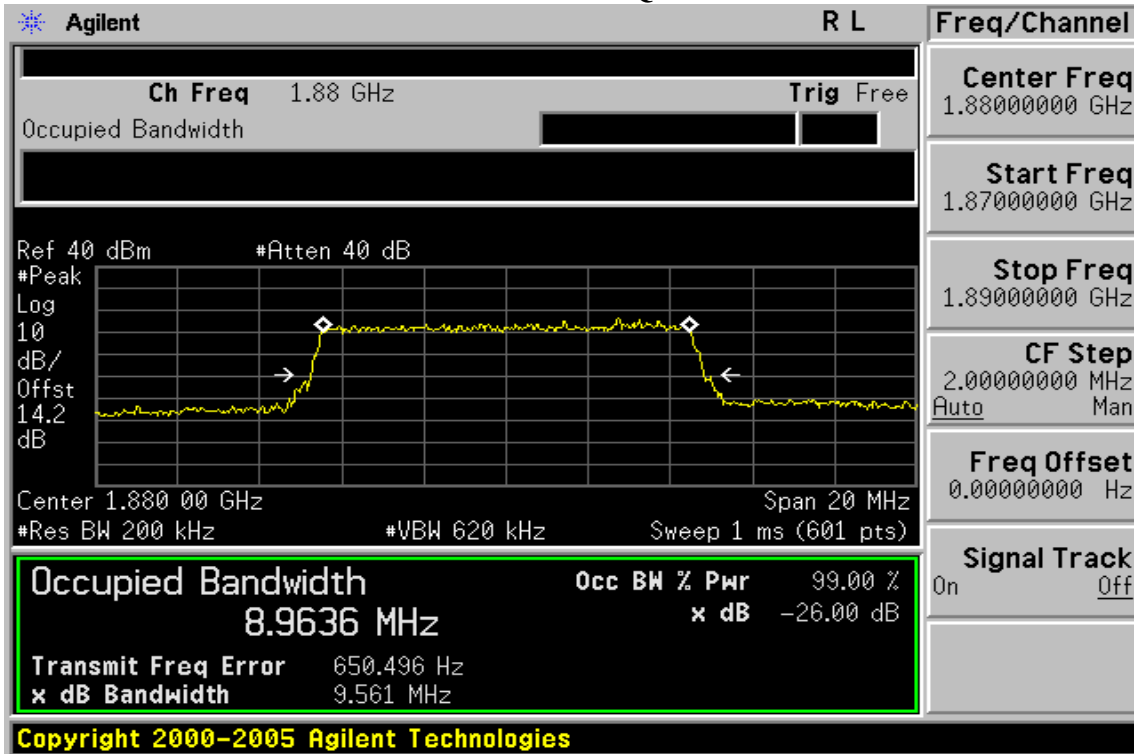
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10MHz BW LTE-Band 2 16QAM Channel Low



10MHz BW LTE-Band 2 16QAM Channel Mid



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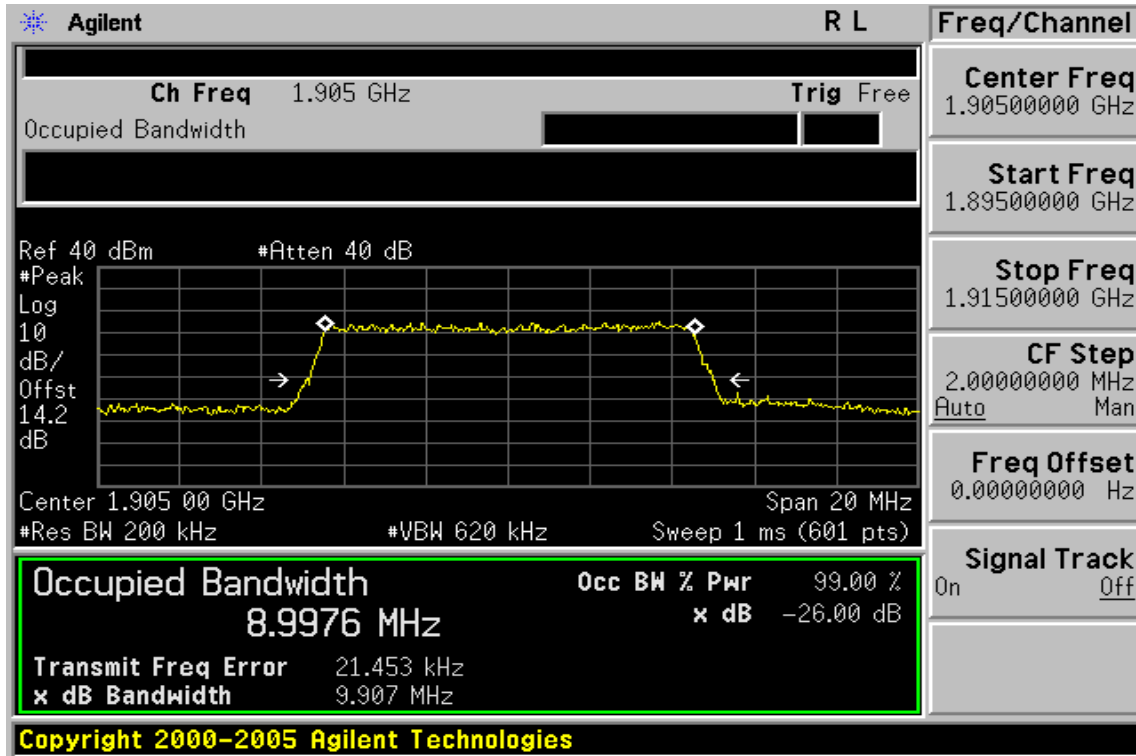
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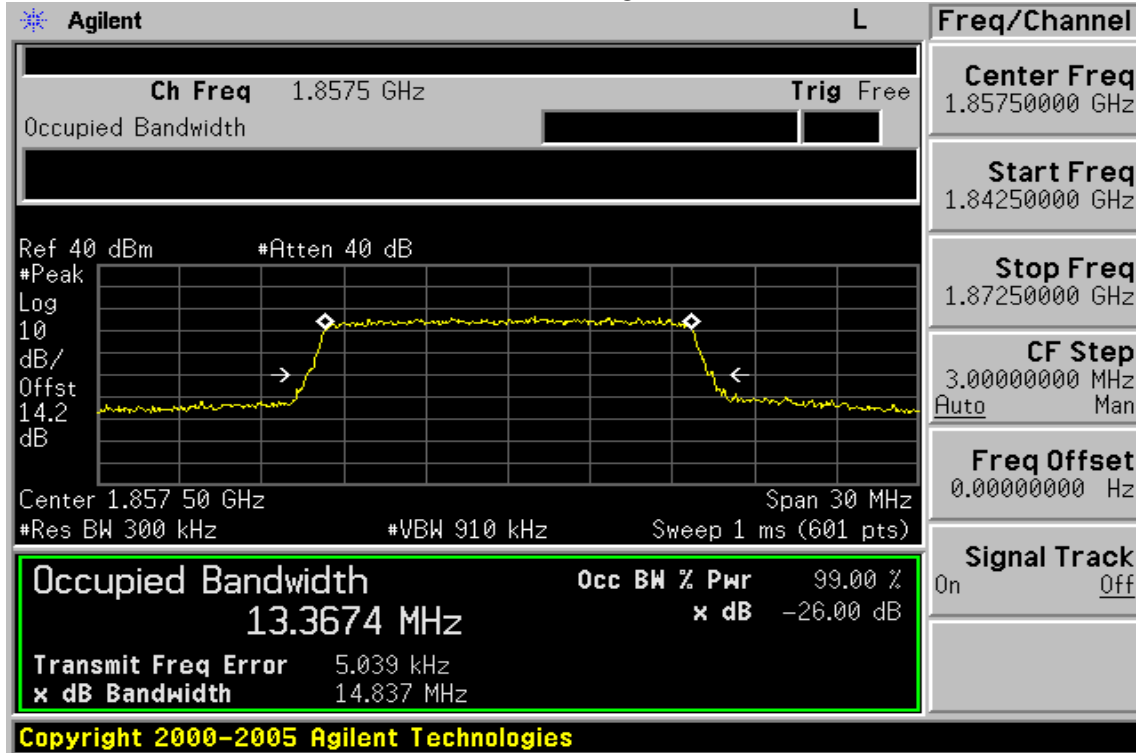
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**10MHz BW LTE-Band 2 16QAM Channel High**



**15MHz BW LTE-Band 2 QPSK Channel Low**



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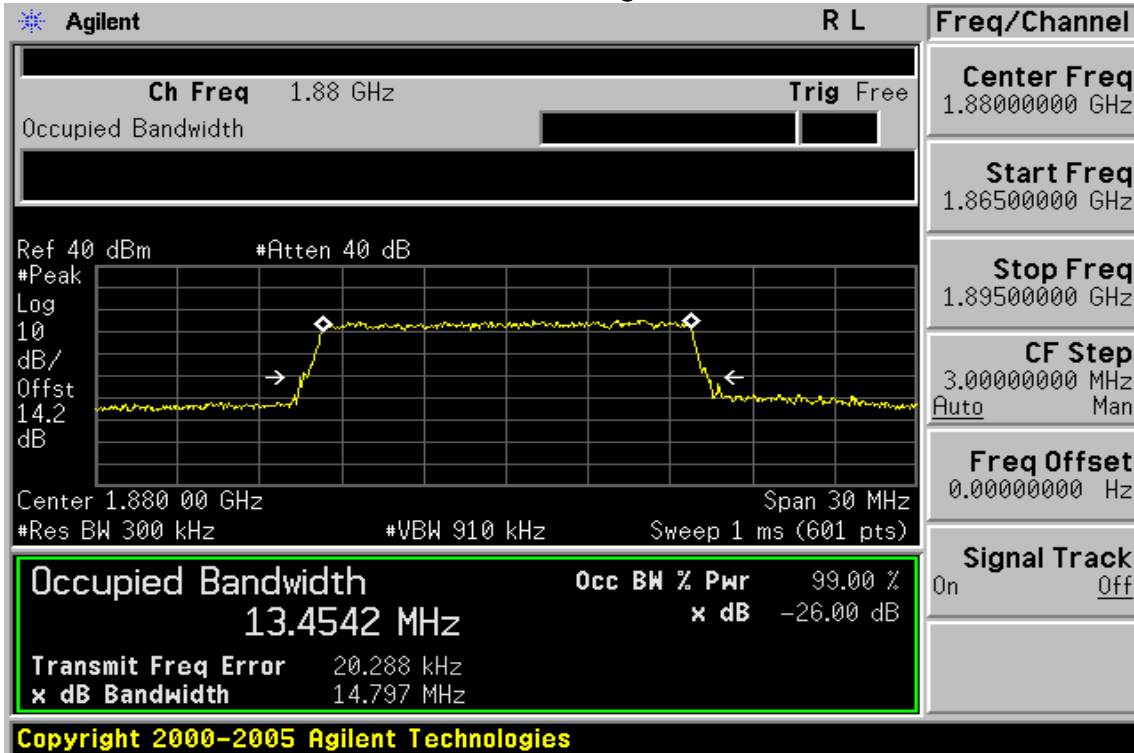
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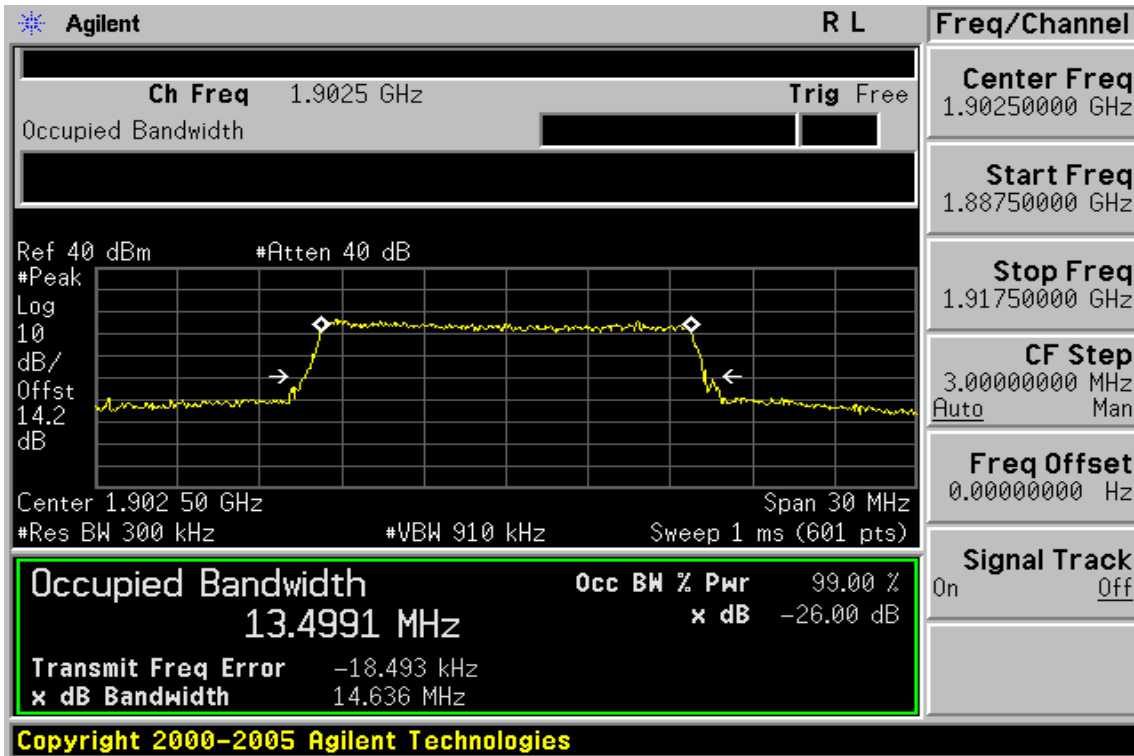
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15MHz BW LTE-Band 2 QPSK Channel Mid



15MHz BW LTE-Band 2 QPSK Channel High



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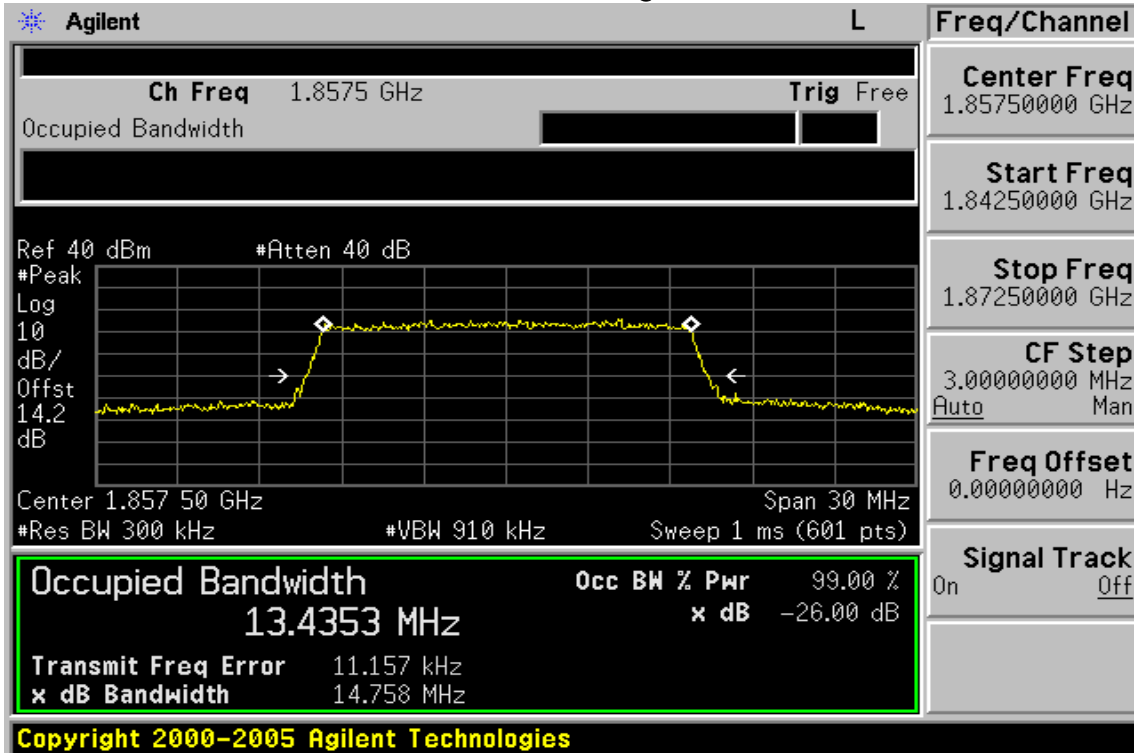
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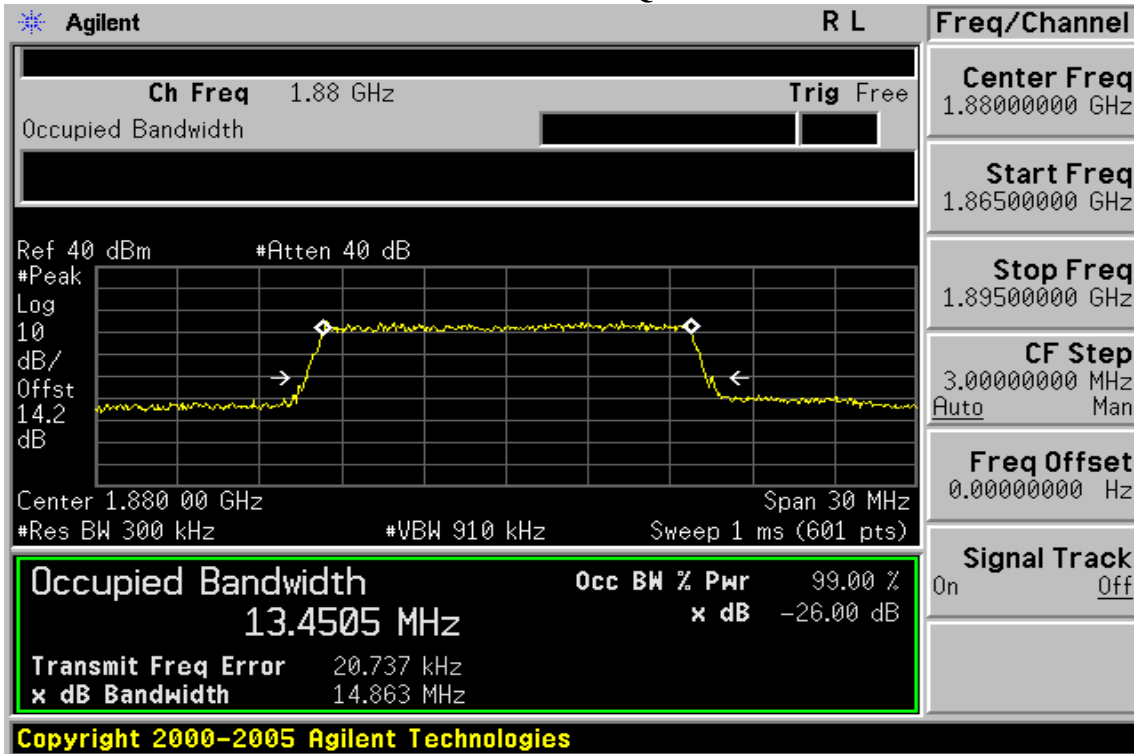
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15MHz BW LTE-Band 2 16QAM Channel Low



15MHz BW LTE-Band 2 16QAM Channel Mid



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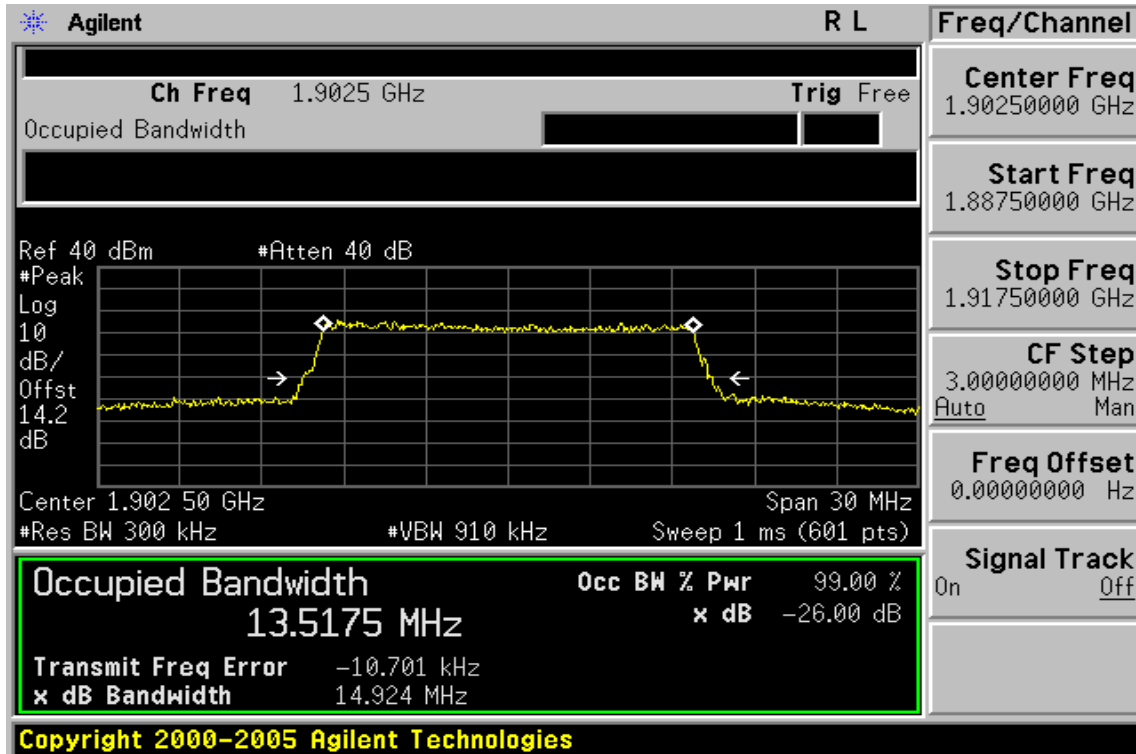
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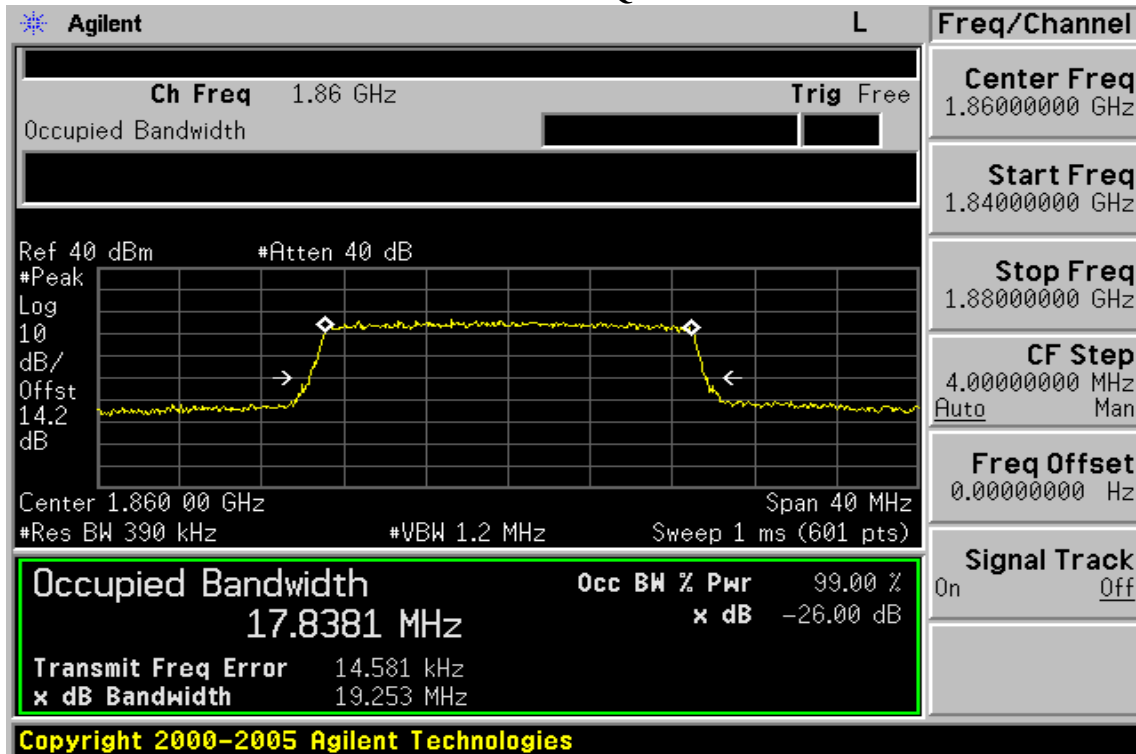
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**15MHz BW LTE-Band 2 16QAM Channel High**



**20MHz BW LTE-Band 2 QPSK Channel Low**



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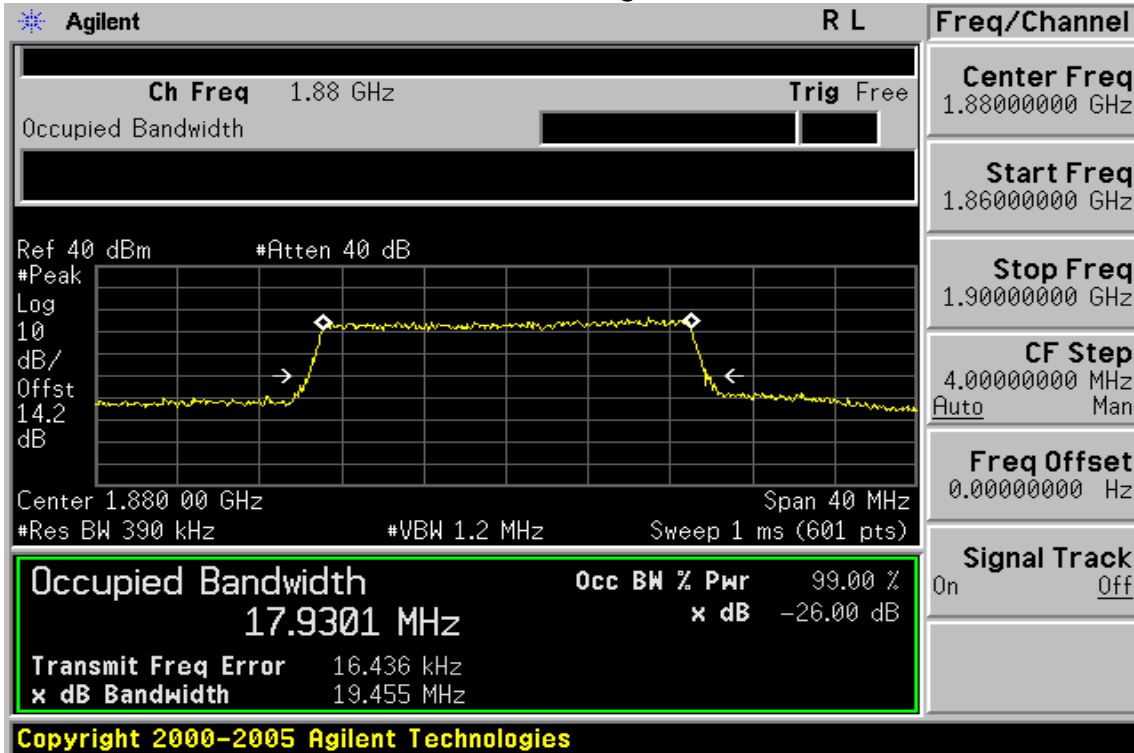
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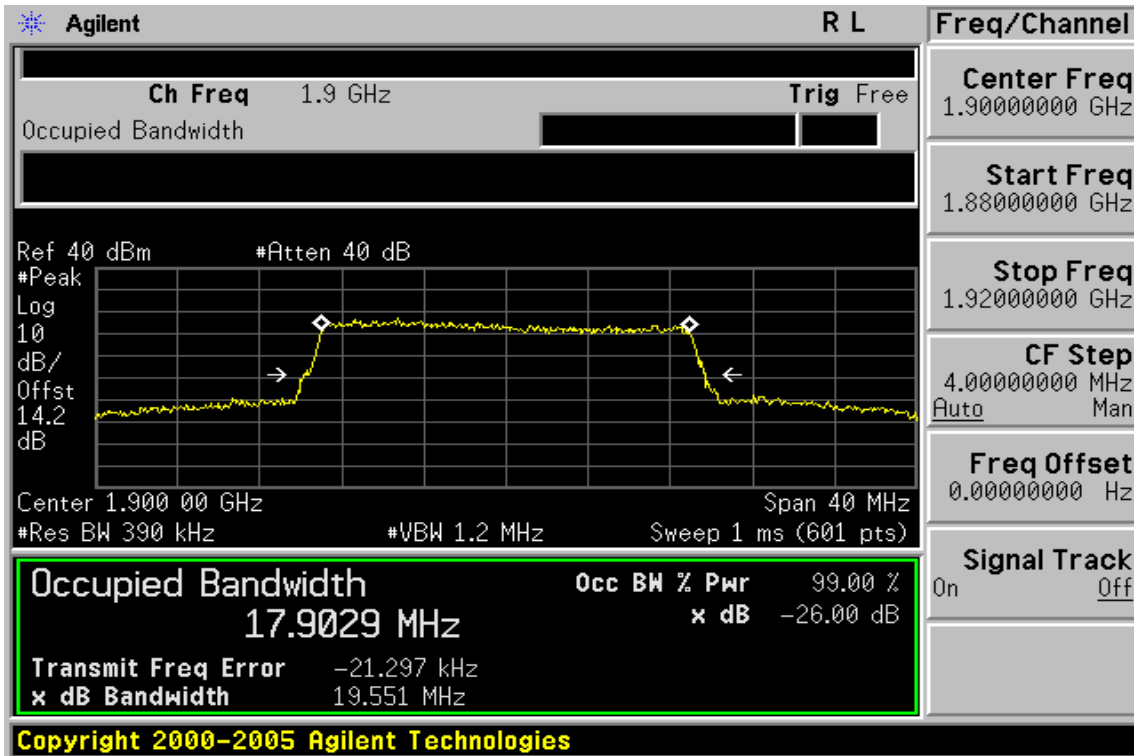
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20MHz BW LTE-Band 2 QPSK Channel Mid



20MHz BW LTE-Band 2 QPSK Channel High



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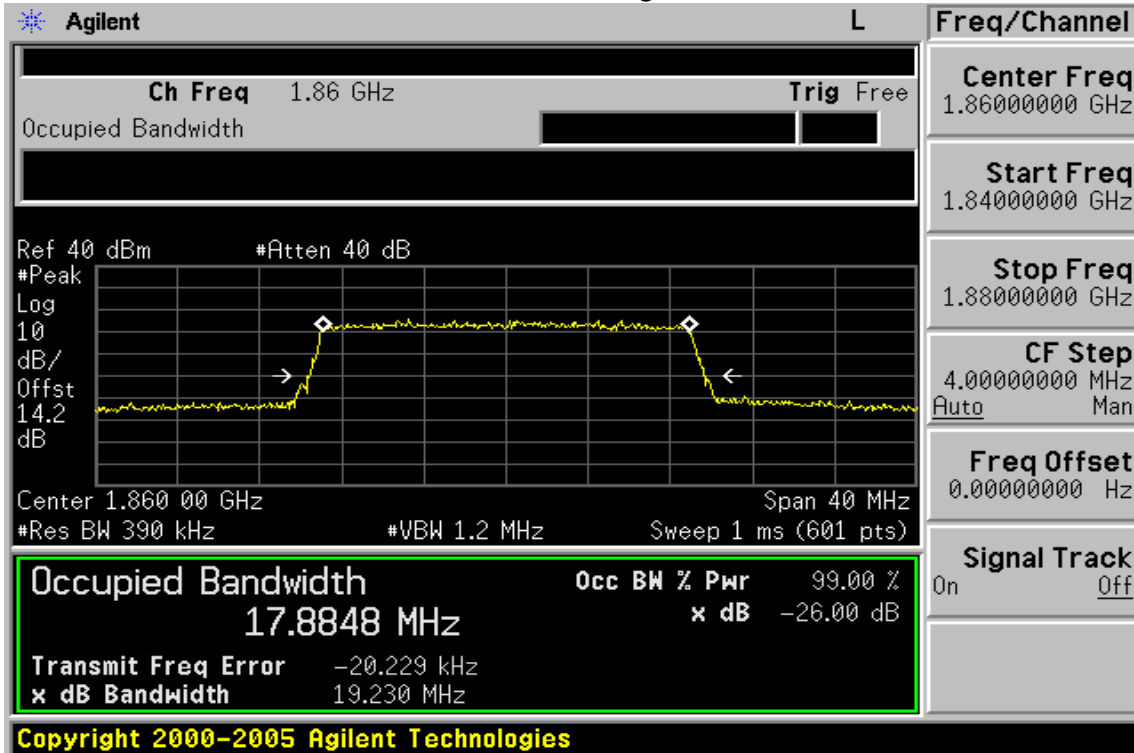
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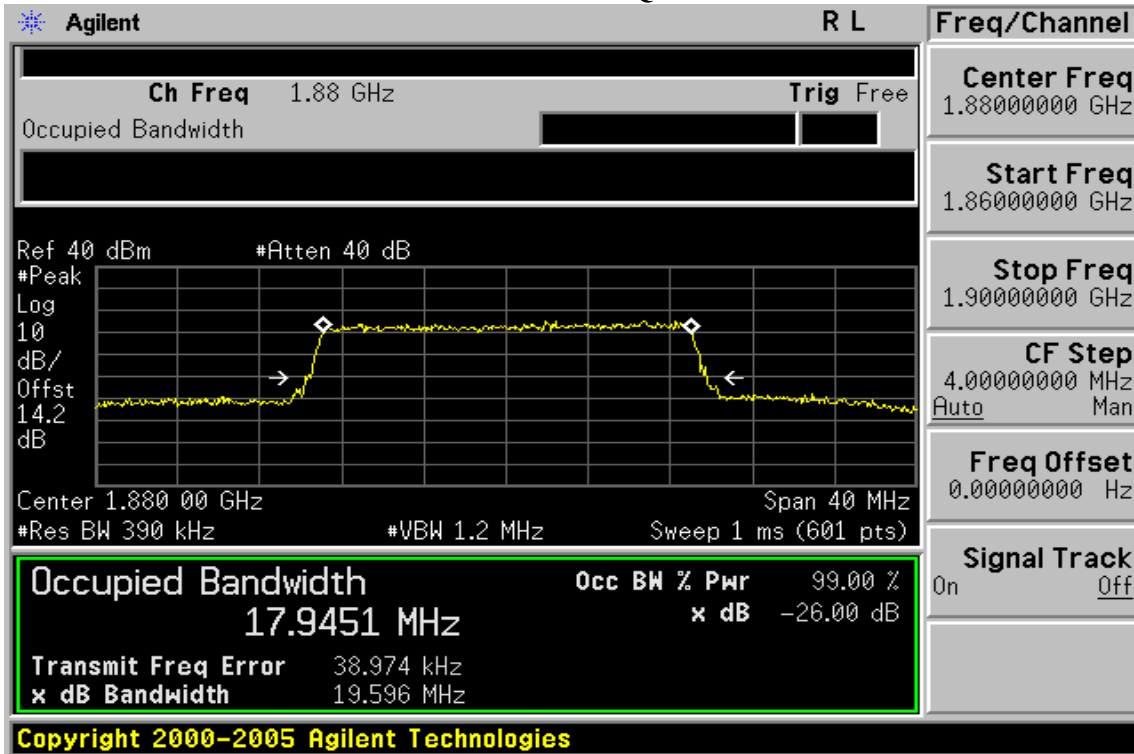
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20MHz BW LTE-Band 2 16QAM Channel Low



20MHz BW LTE-Band 2 16QAM Channel Mid



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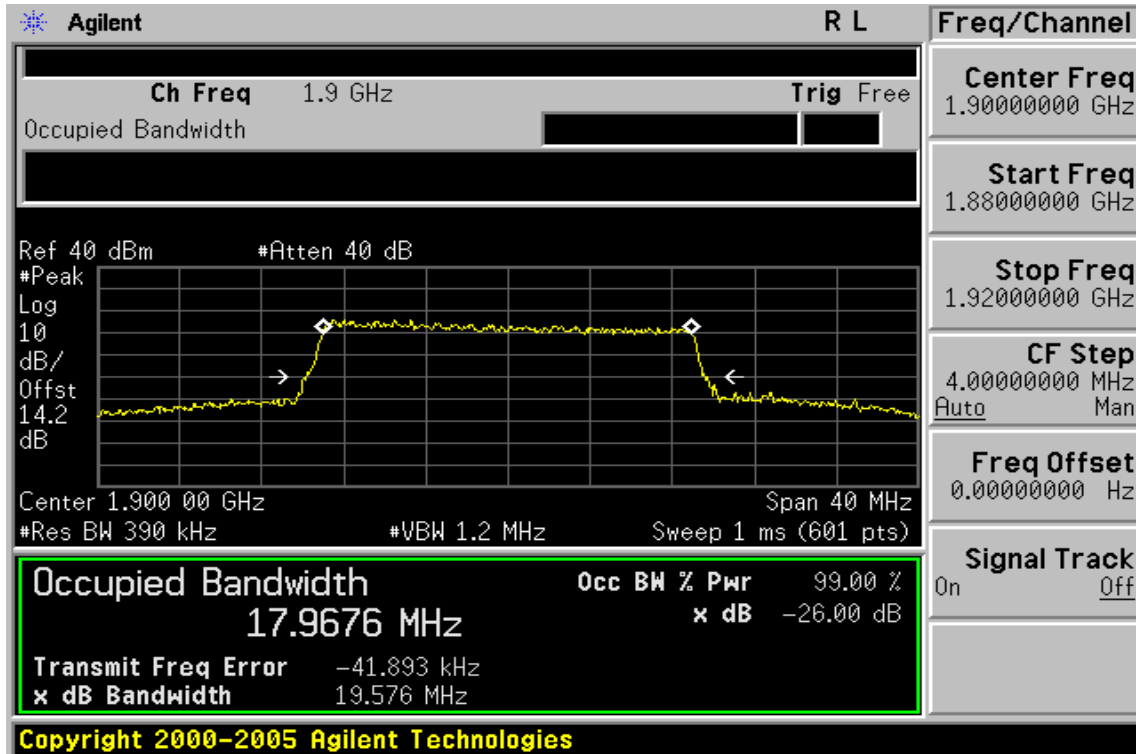
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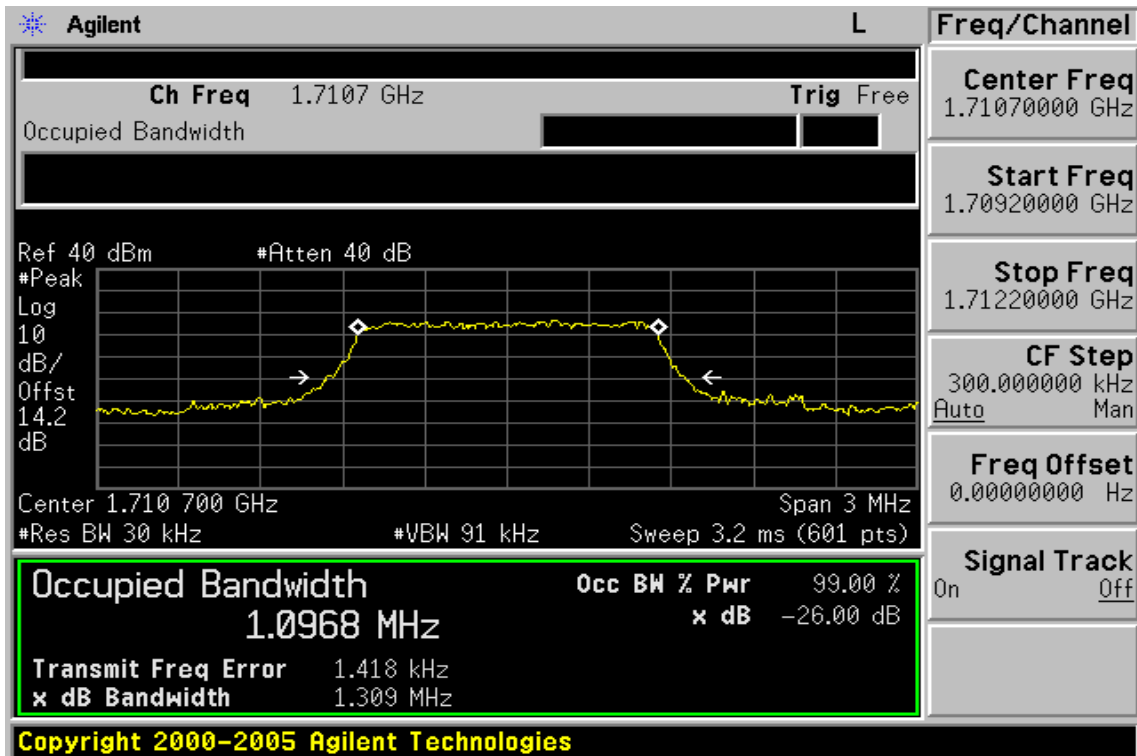
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**20MHz BW LTE-Band 2 16QAM Channel High**



**1.4MHz BW LTE-Band 4 QPSK Channel Low**



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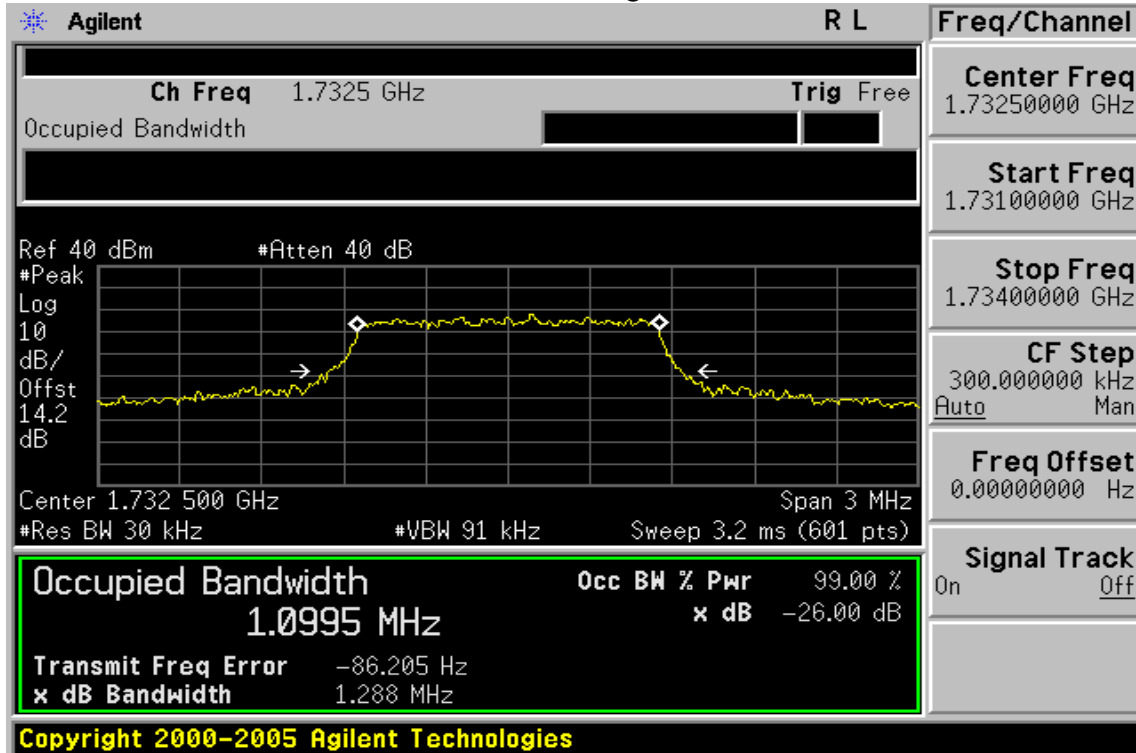
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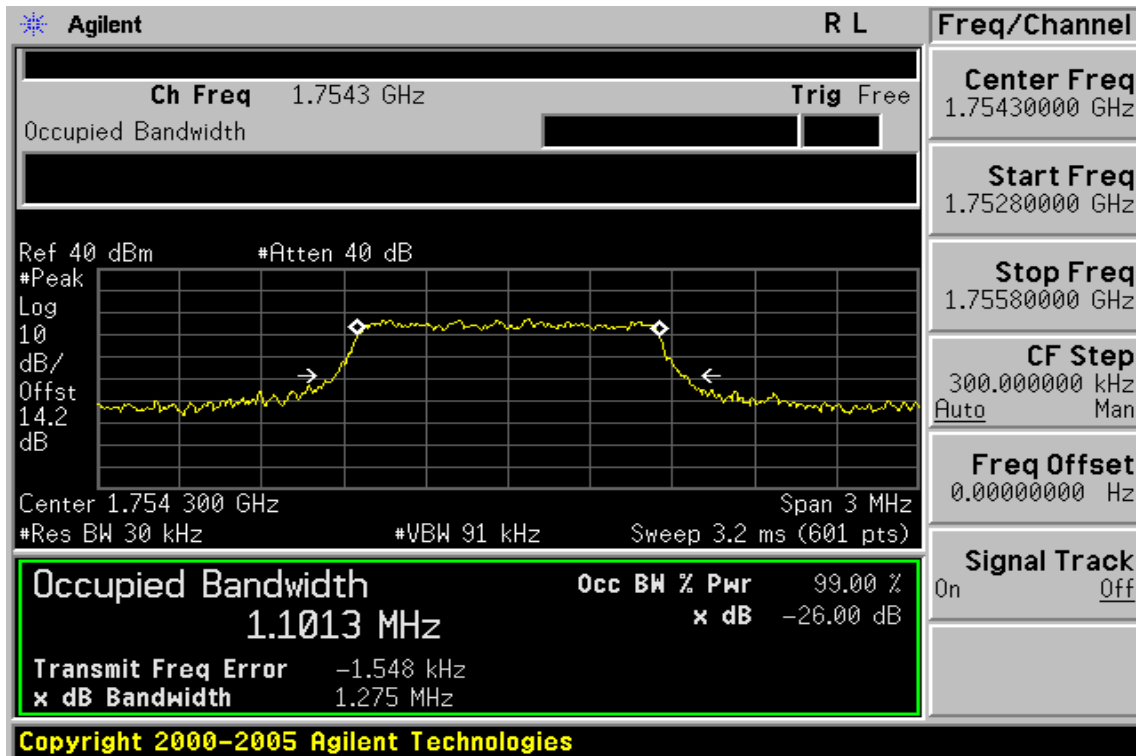
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**1.4MHz BW LTE-Band 4 QPSK Channel Mid**



**1.4MHz BW LTE-Band 4 QPSK Channel High**



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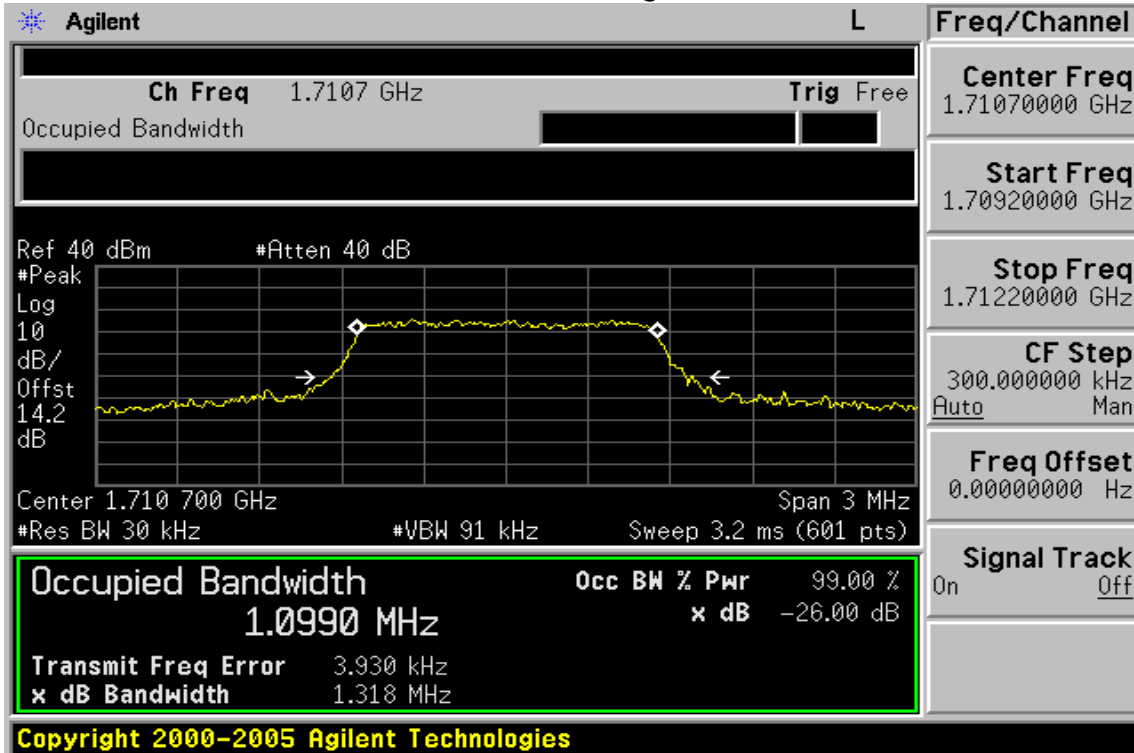
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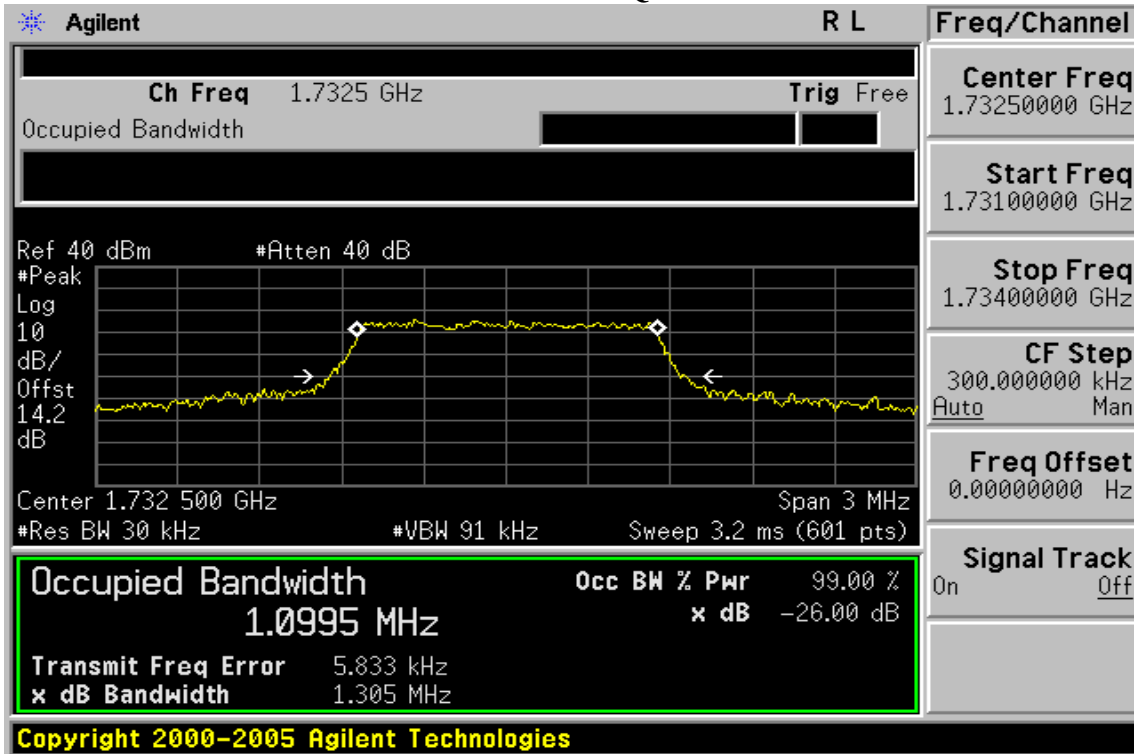
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**1.4MHz BW LTE-Band 4 16QAM Channel Low**



**.4MHz BW LTE-Band 4 16QAM Channel Mid**



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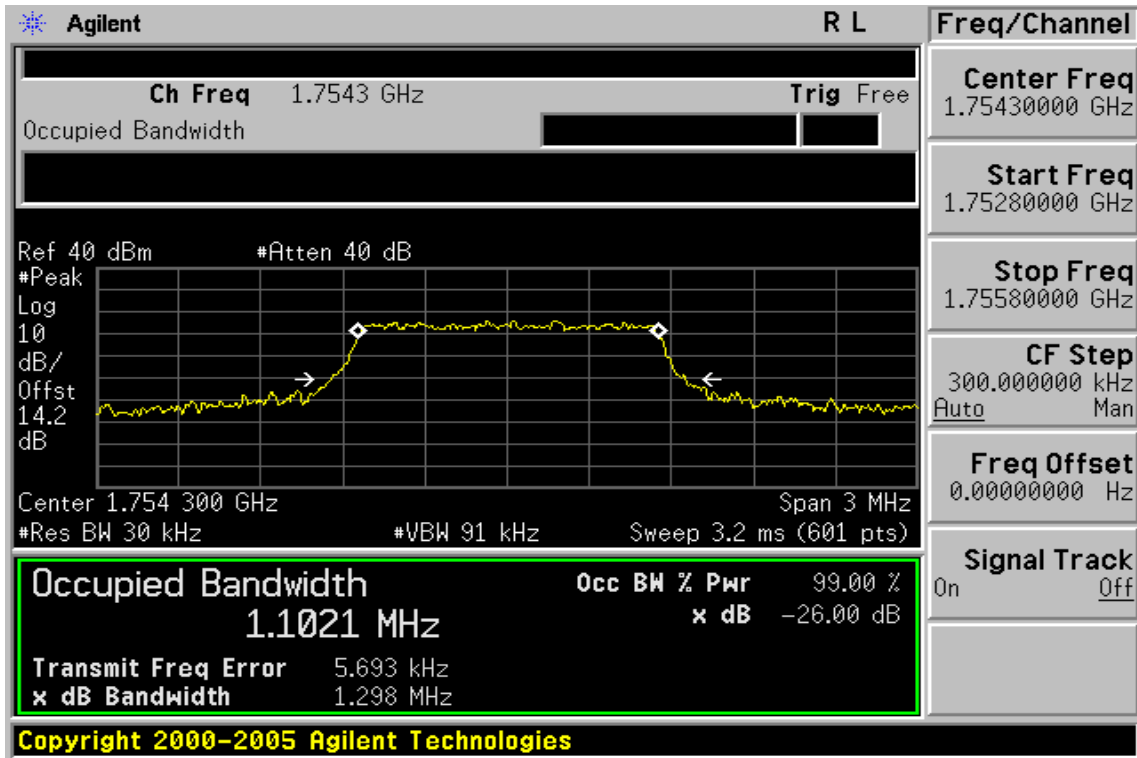
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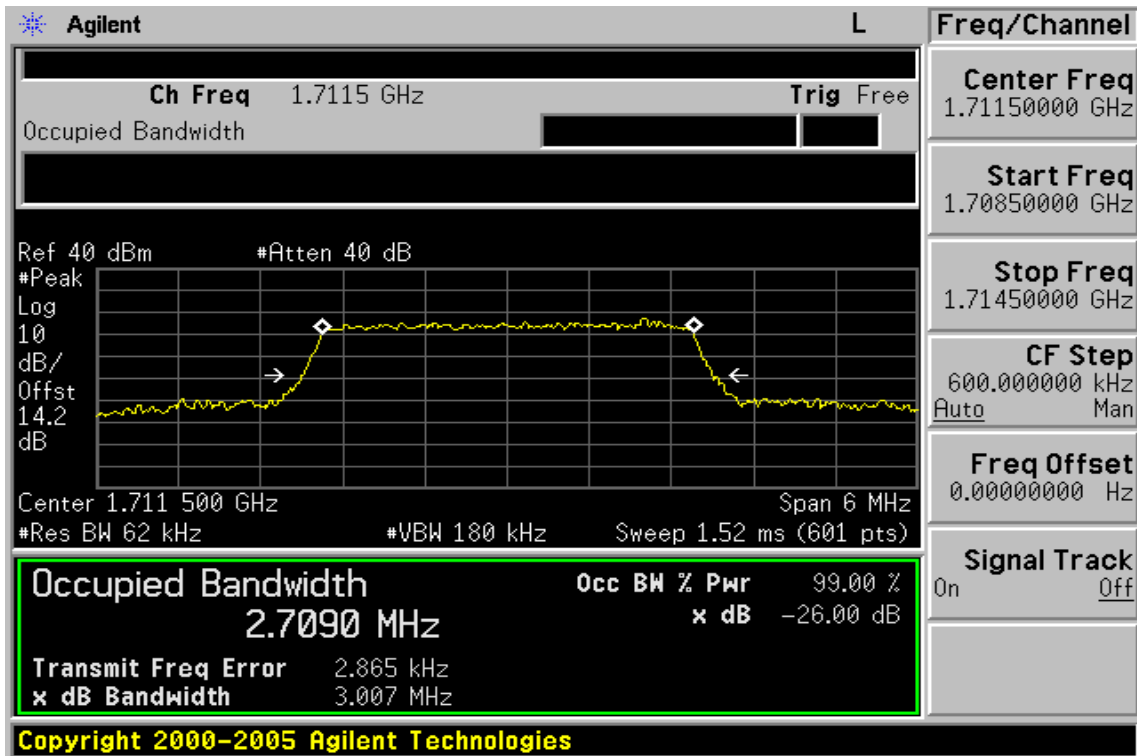
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**1.4MHz BW LTE-Band 4 16QAM Channel High**



**3MHz BW LTE-Band 4 QPSK Channel Low**



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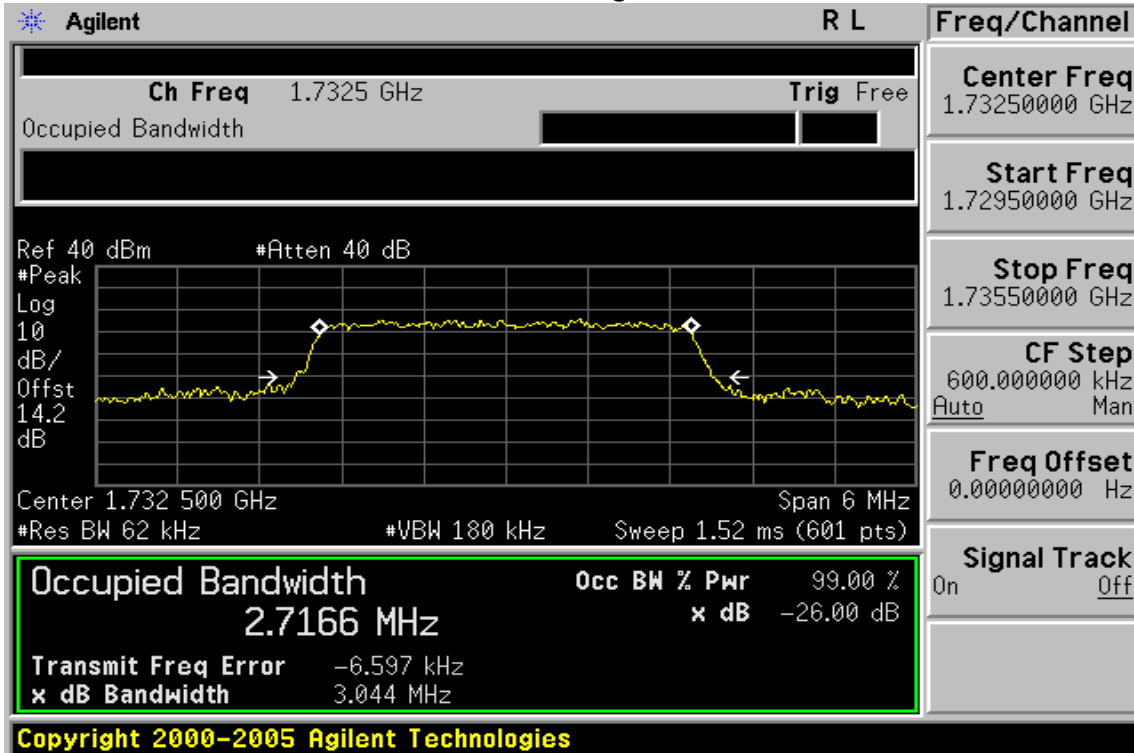
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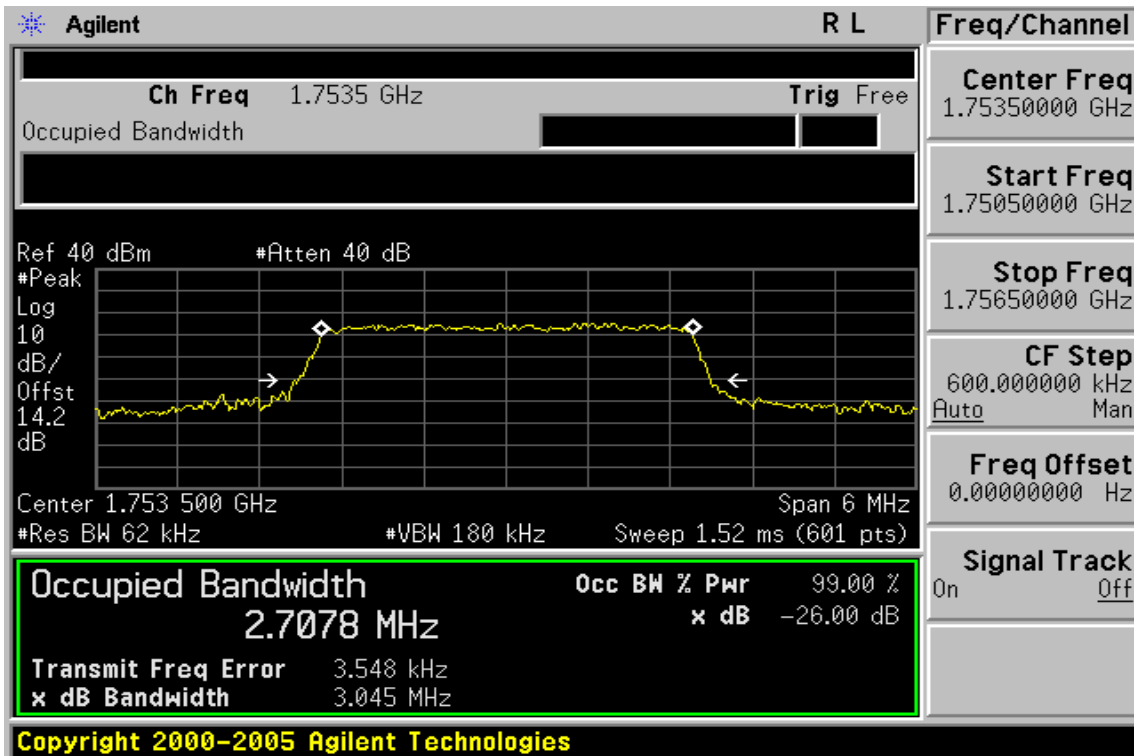
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3MHz BW LTE-Band 4 QPSK Channel Mid



3MHz BW LTE-Band 4 QPSK Channel High



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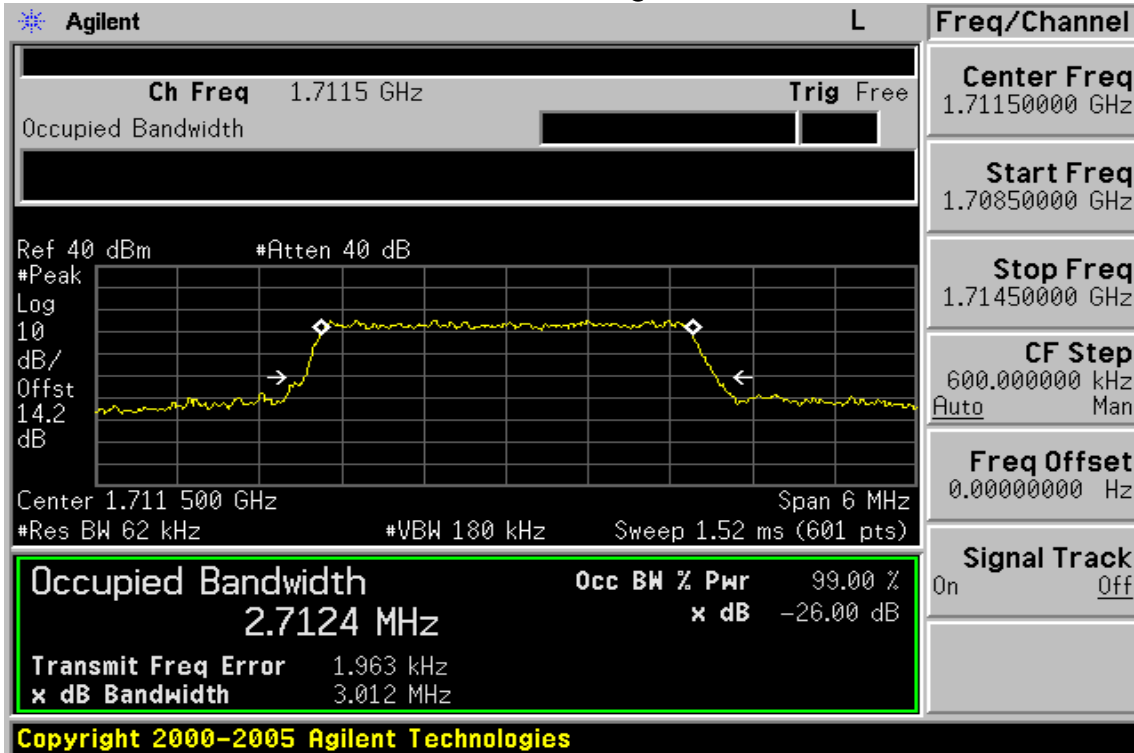
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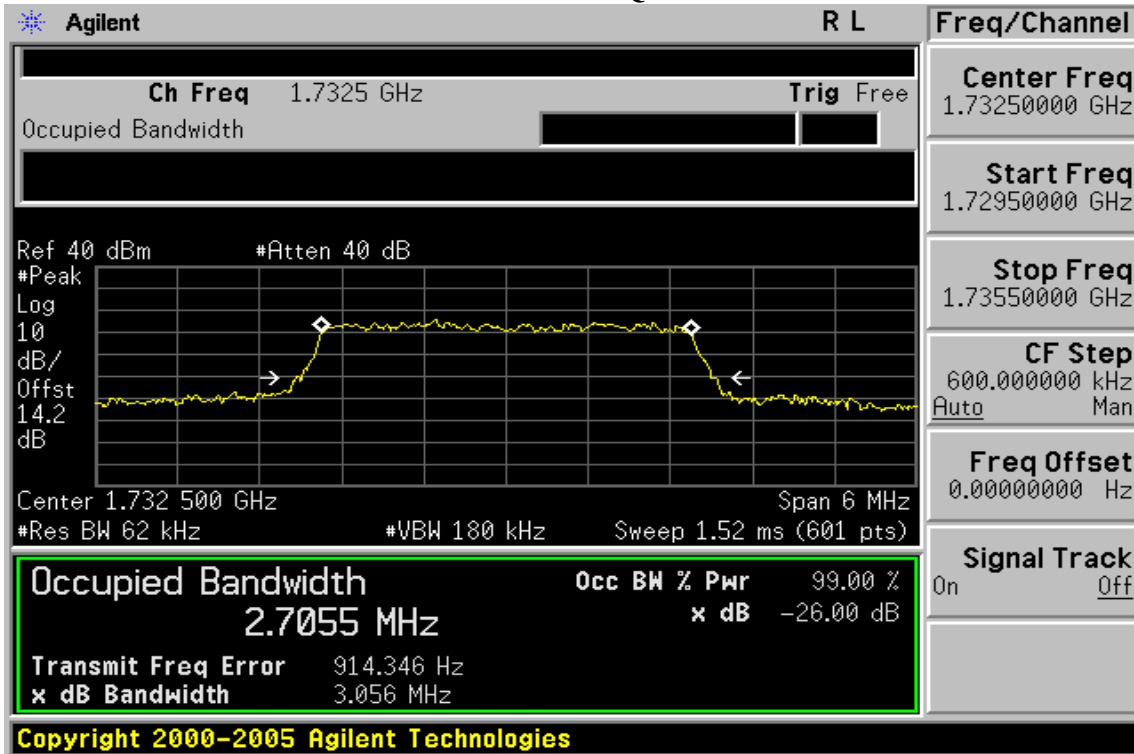
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3MHz BW LTE-Band 4 16QAM Channel Low



3MHz BW LTE-Band 4 16QAM Channel Mid



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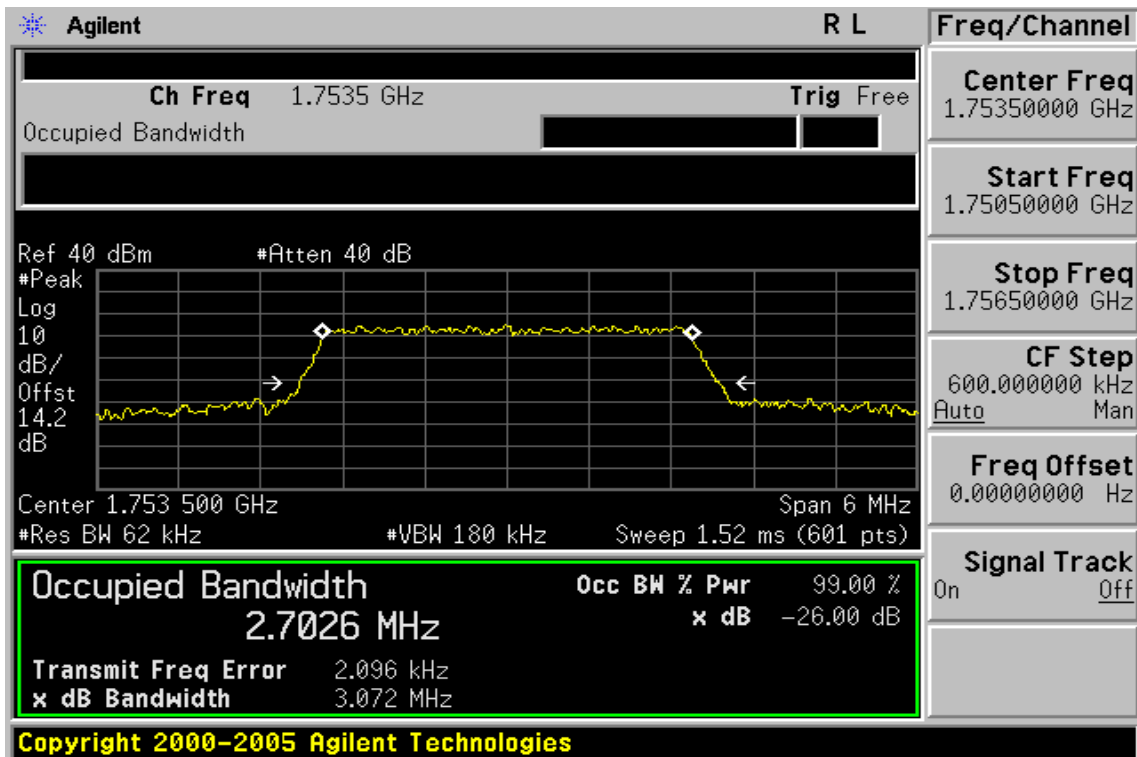
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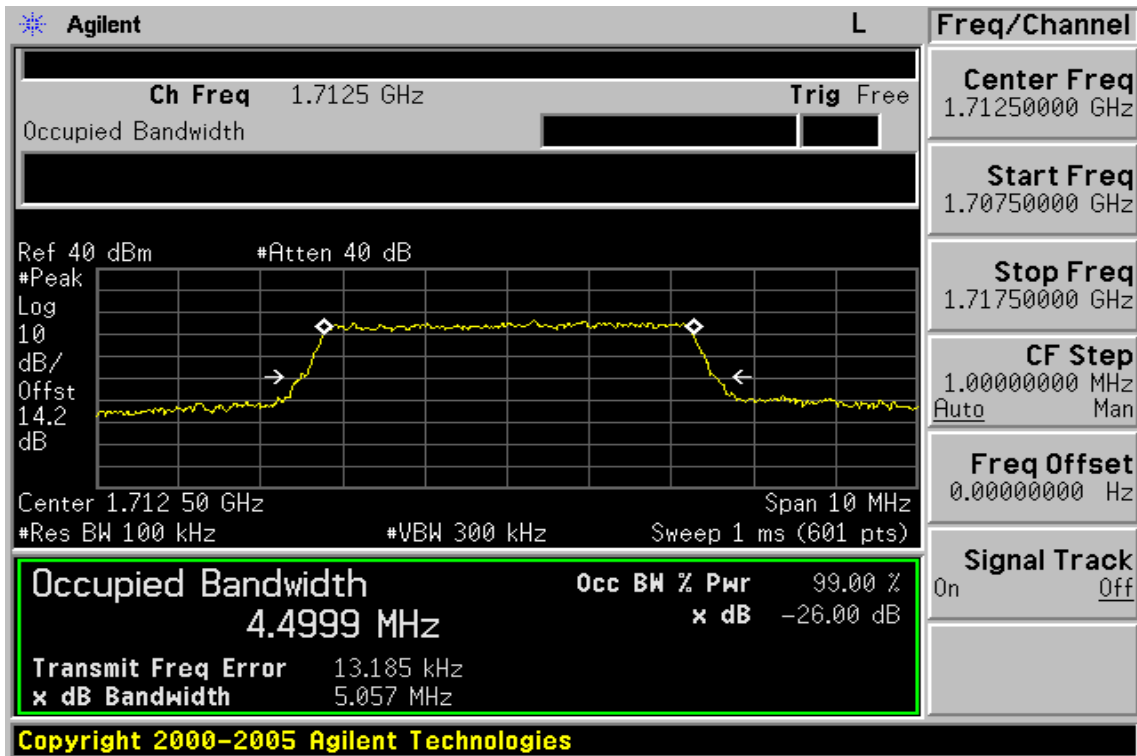
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**3MHz BW LTE-Band 4 16QAM Channel High**



**5MHz BW LTE-Band 4 QPSK Channel Low**



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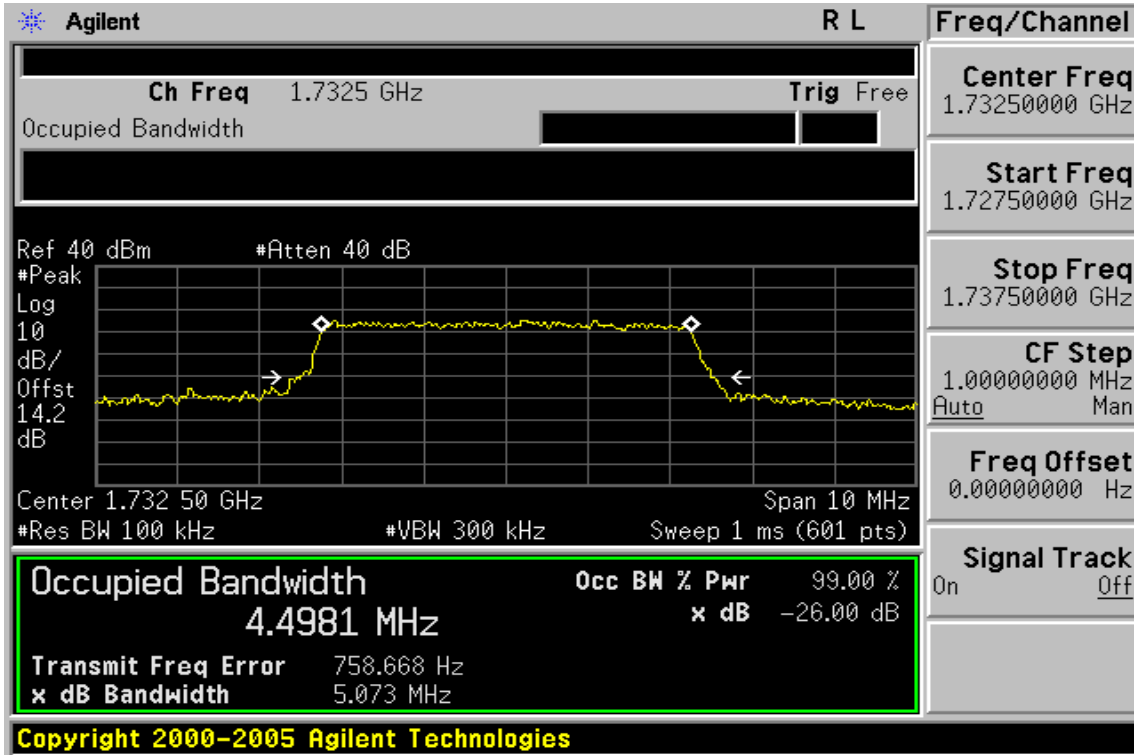
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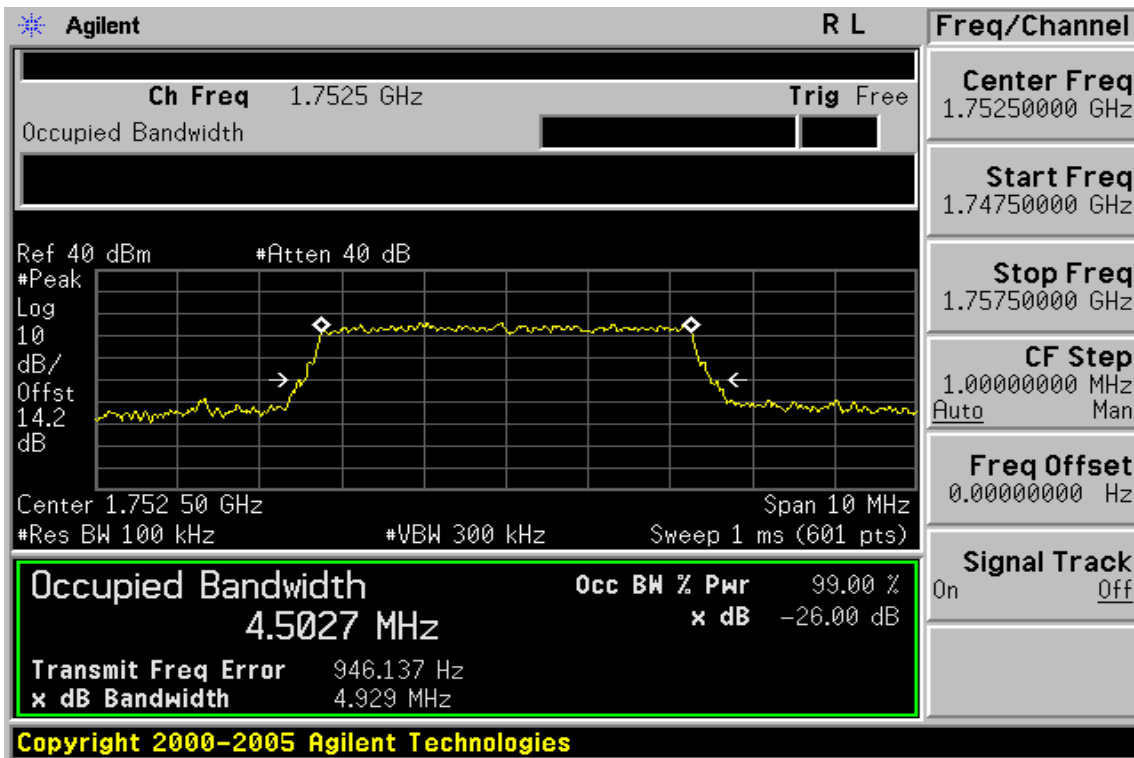
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5MHz BW LTE-Band 4 QPSK Channel Mid



5MHz BW LTE-Band 4 QPSK Channel High



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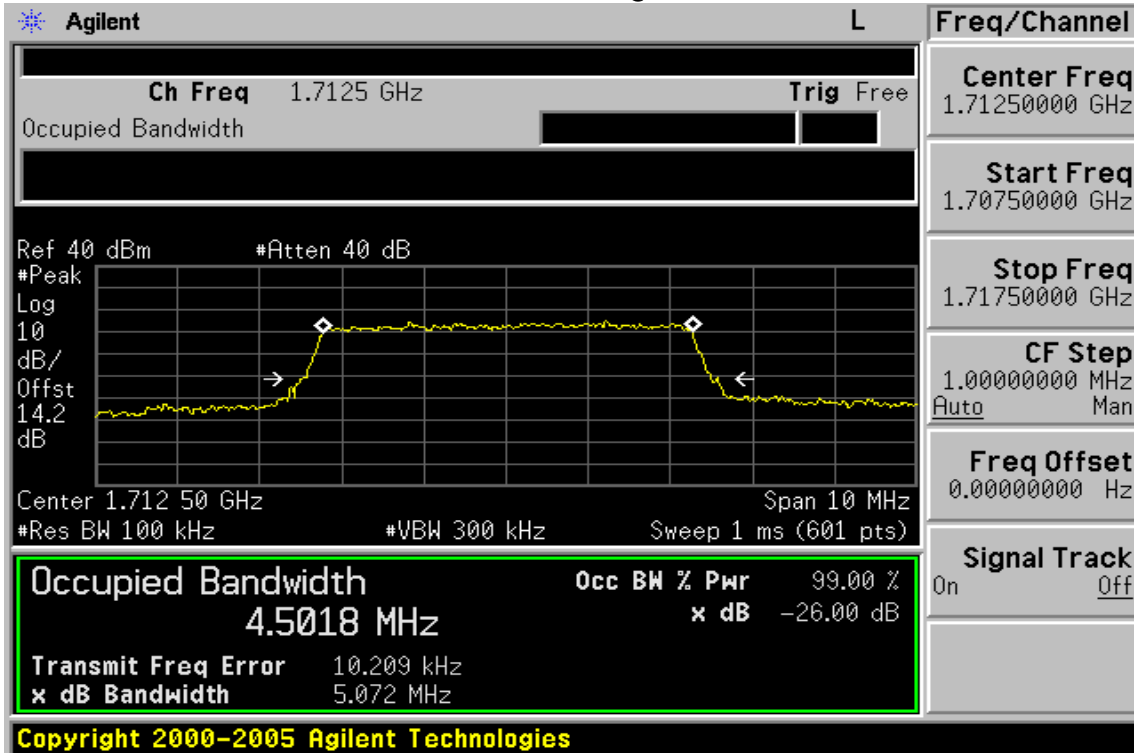
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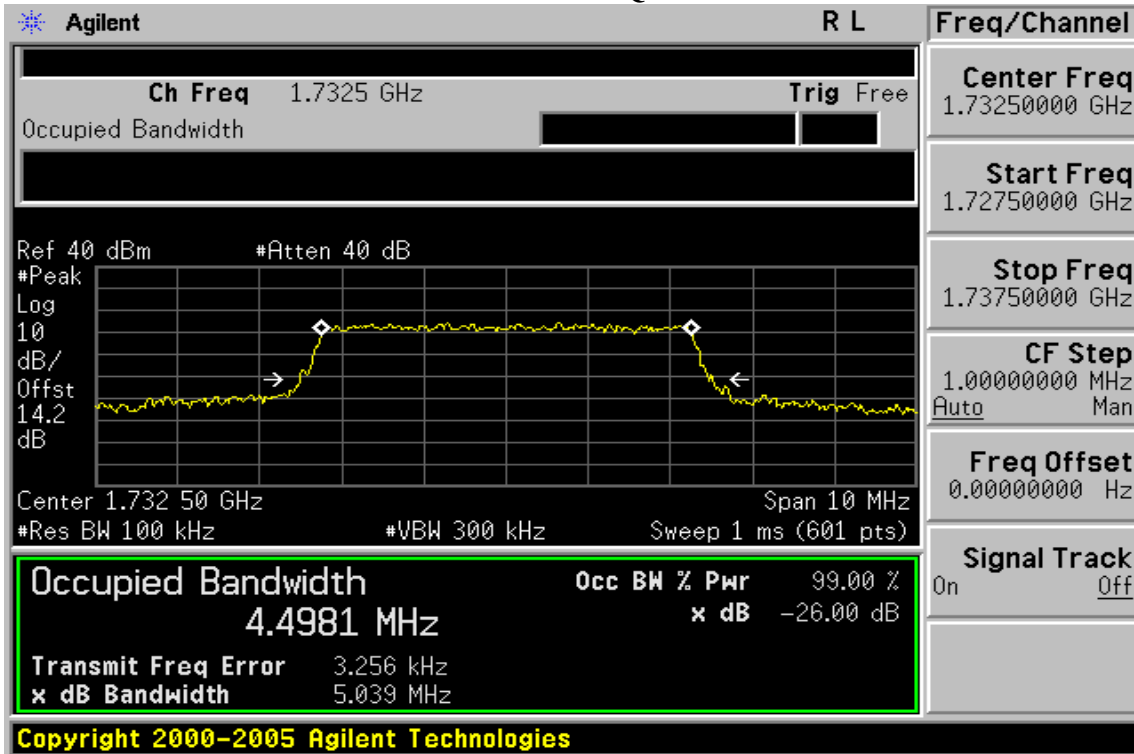
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5MHz BW LTE-Band 4 16QAM Channel Low



5MHz BW LTE-Band 4 16QAM Channel Mid



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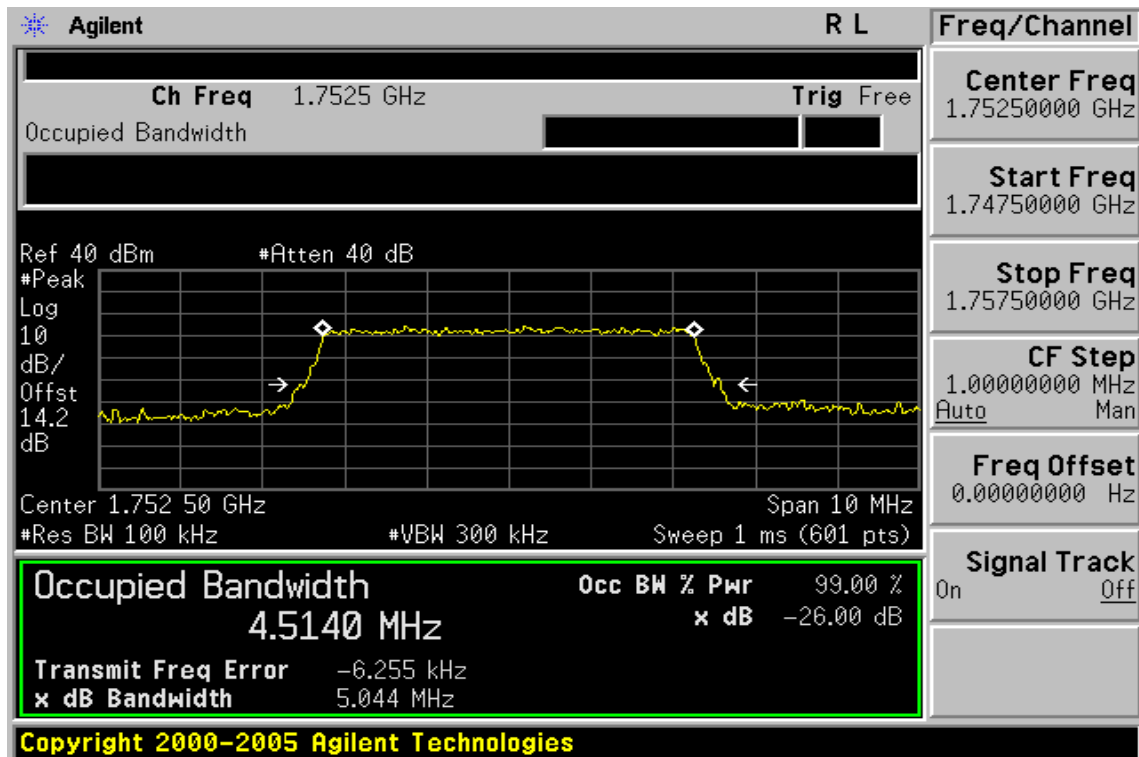
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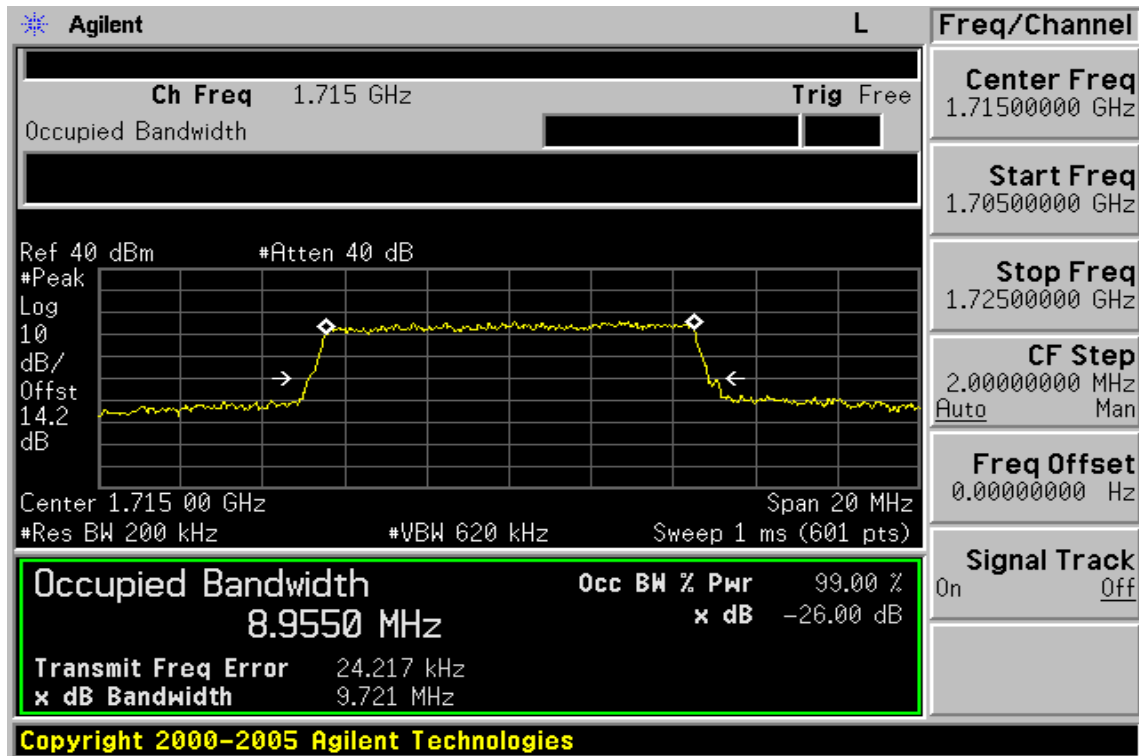
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**5MHz BW LTE-Band 4 16QAM Channel High**



**10MHz BW LTE-Band 4 QPSK Channel Low**



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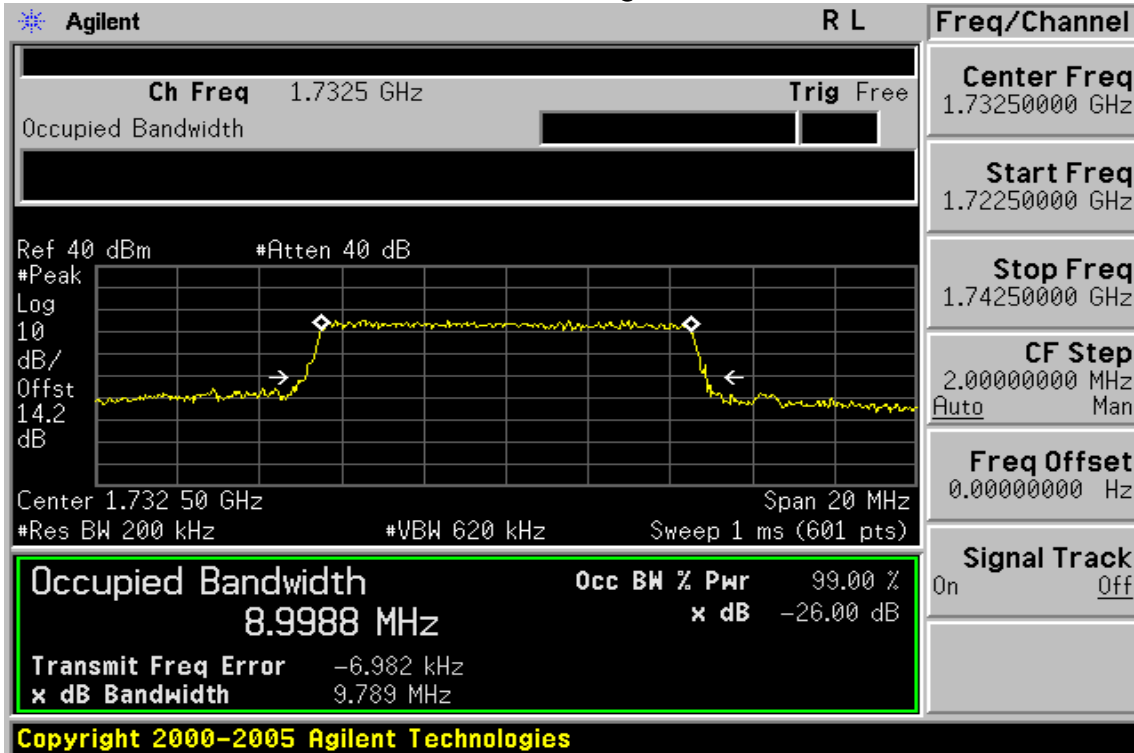
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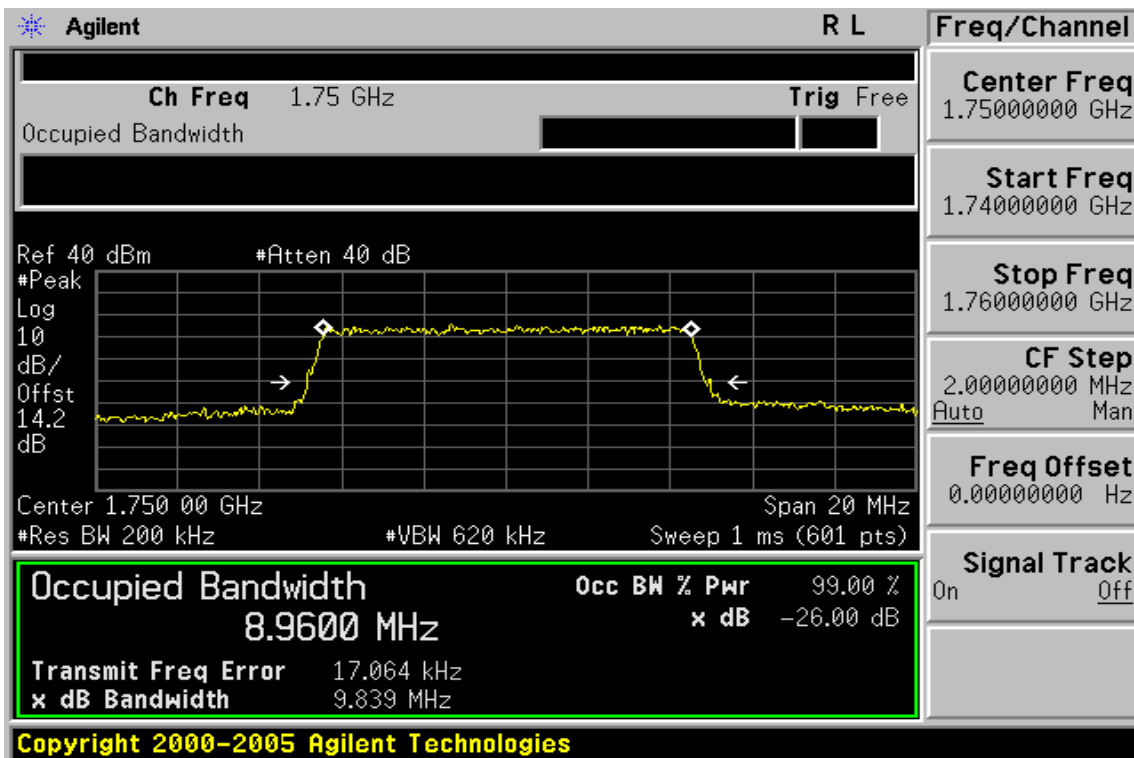
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10MHz BW LTE-Band 4 QPSK Channel Mid



10MHz BW LTE-Band 4 QPSK Channel High



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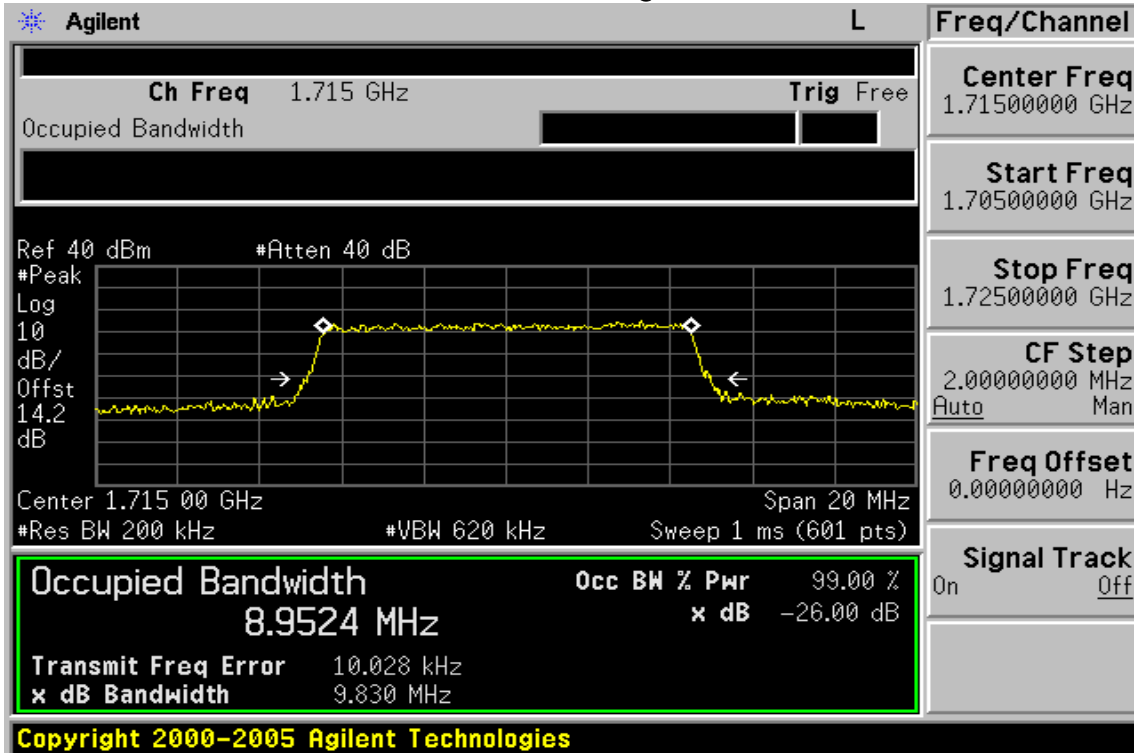
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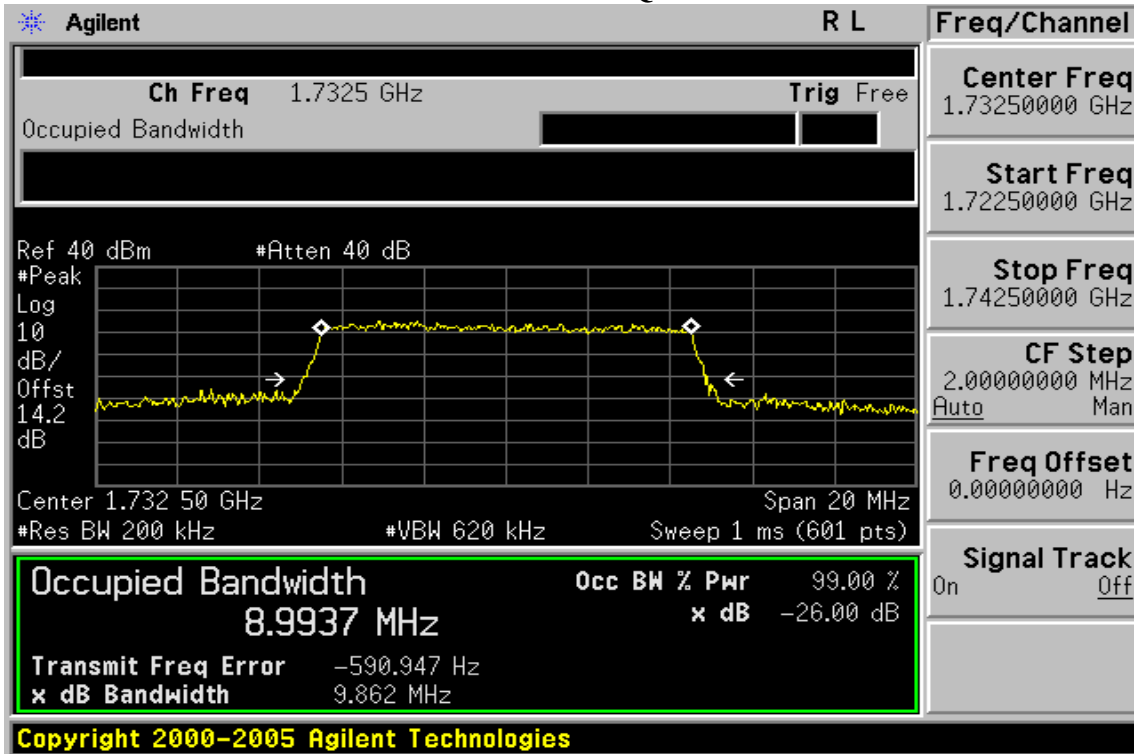
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10MHz BW LTE-Band 4 16QAM Channel Low



10MHz BW LTE-Band 4 16QAM Channel Mid



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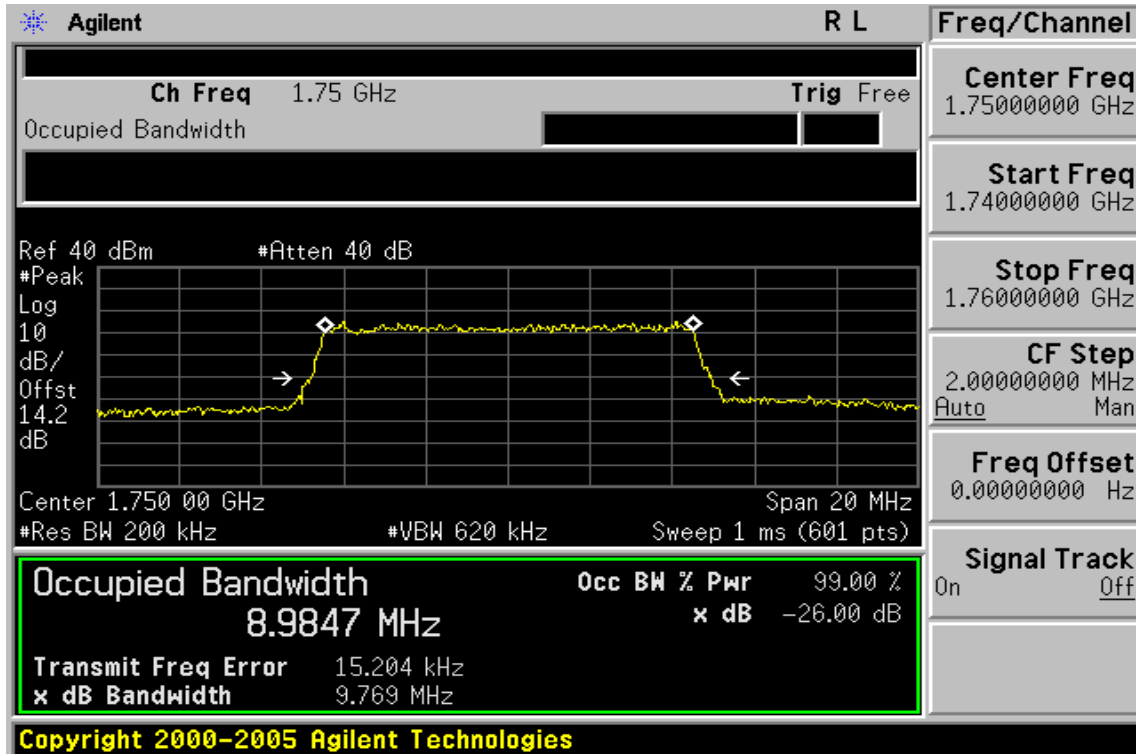
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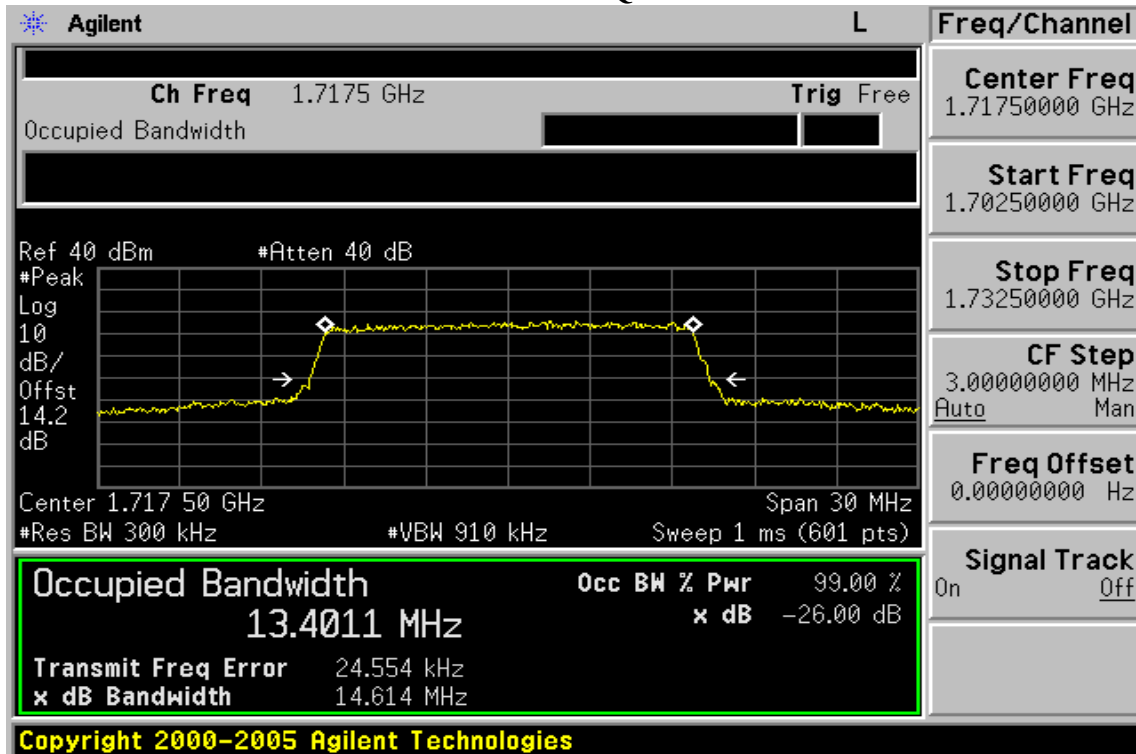
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**10MHz BW LTE-Band 4 16QAM Channel High**



**15MHz BW LTE-Band 4 QPSK Channel Low**



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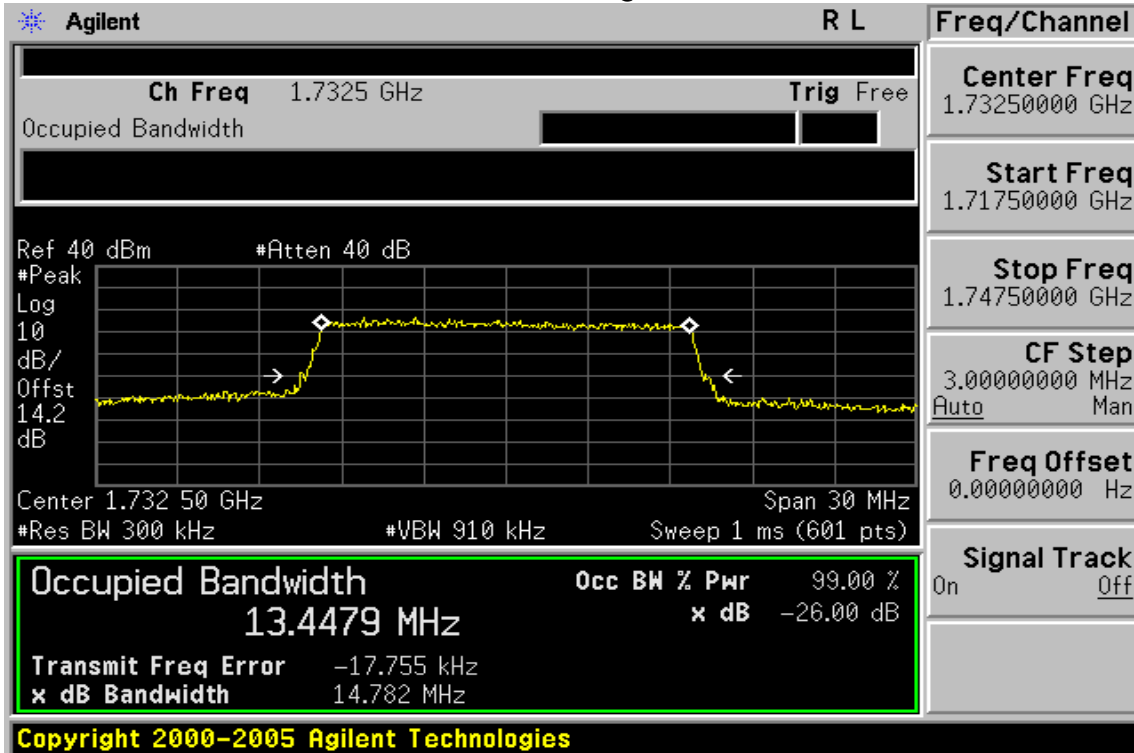
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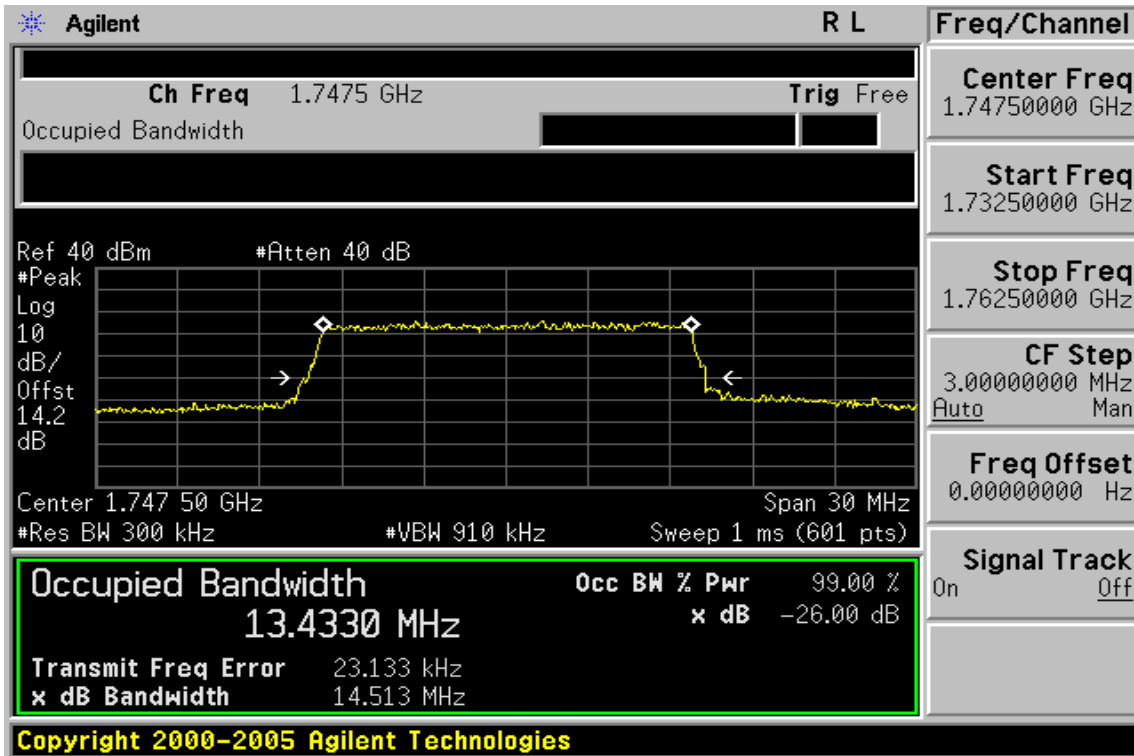
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15MHz BW LTE-Band 4 QPSK Channel Mid



15MHz BW LTE-Band 4 QPSK Channel High



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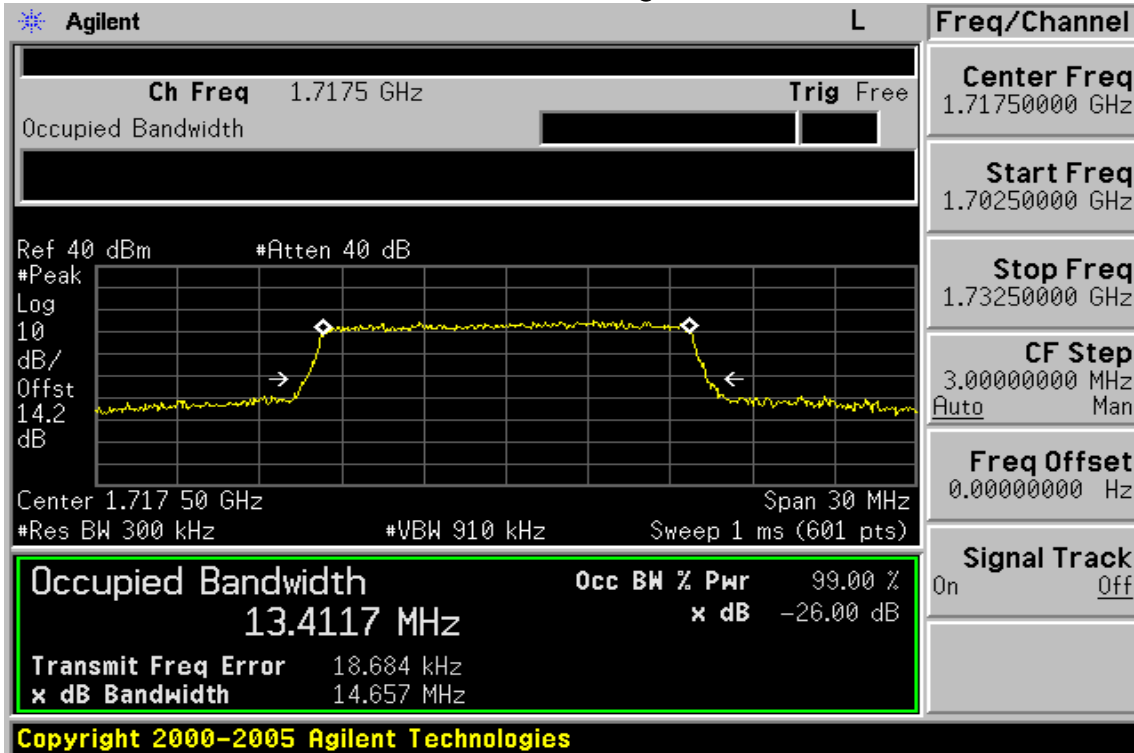
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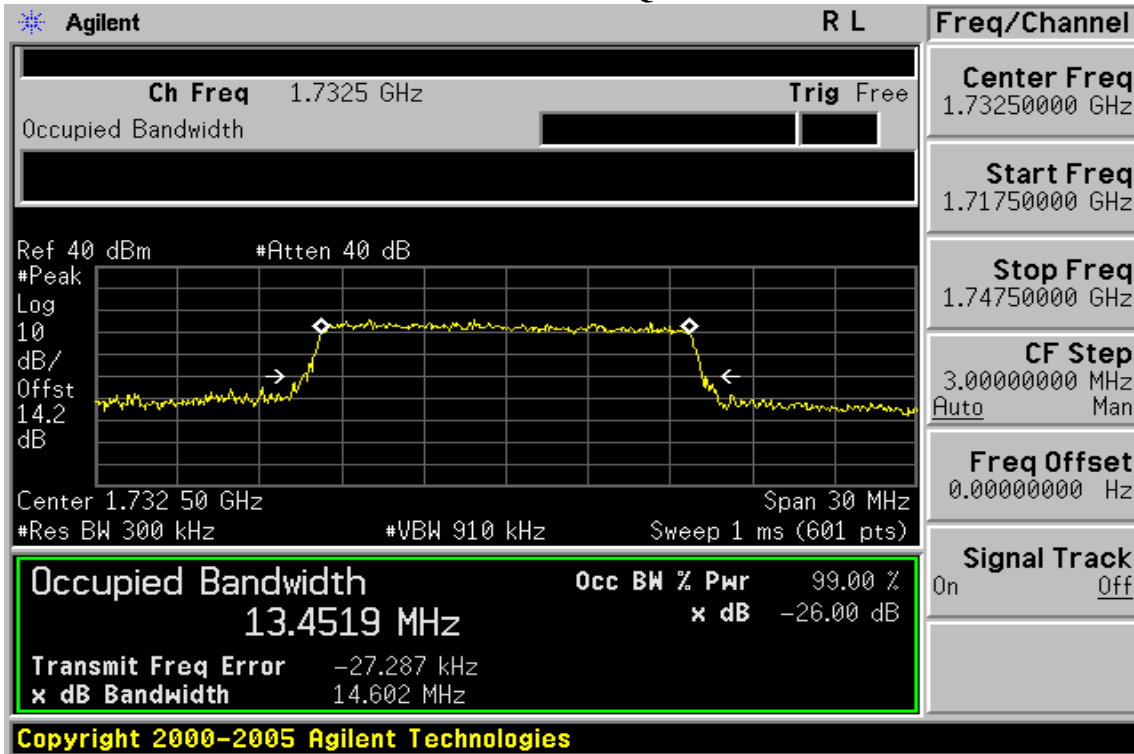
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15MHz BW LTE-Band 4 16QAM Channel Low



15MHz BW LTE-Band 4 16QAM Channel Mid



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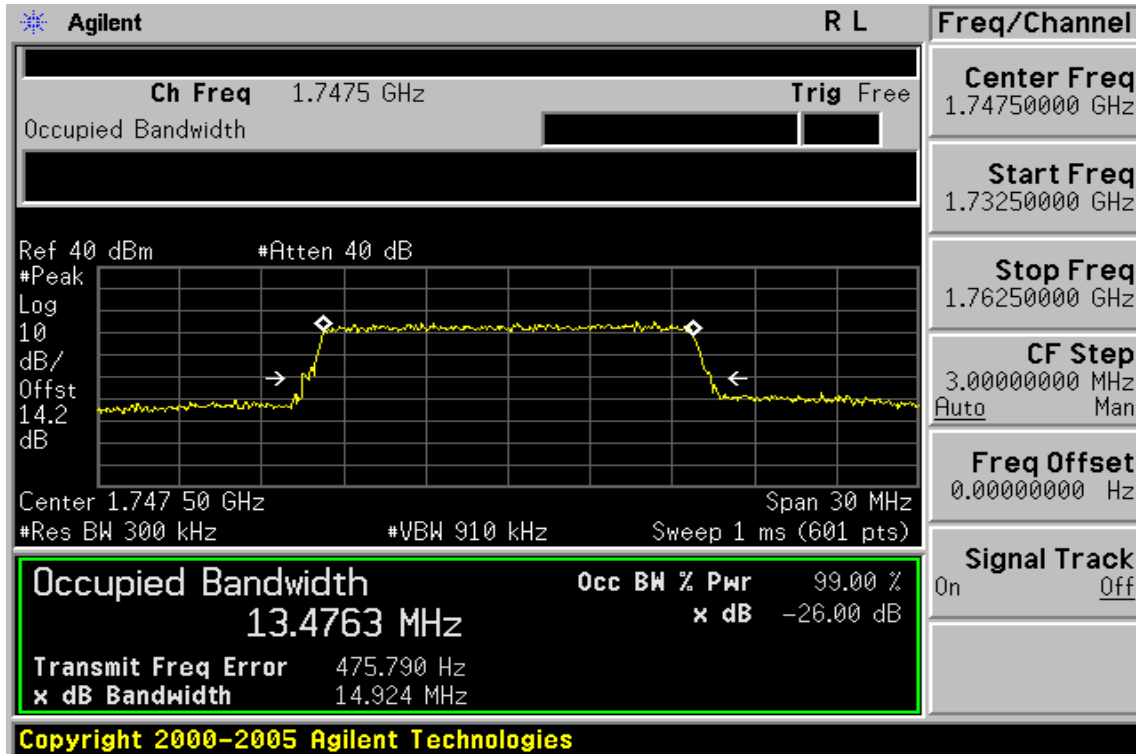
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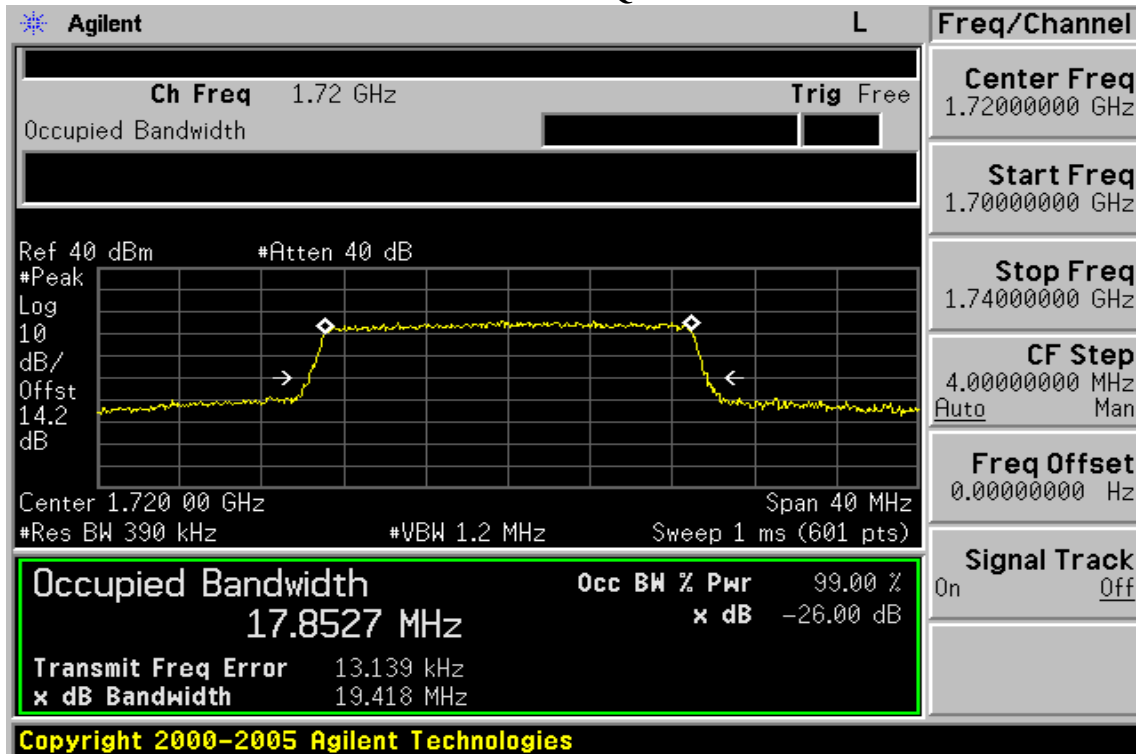
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15MHz BW LTE-Band 4 16QAM Channel High



20MHz BW LTE-Band 4 QPSK Channel Low



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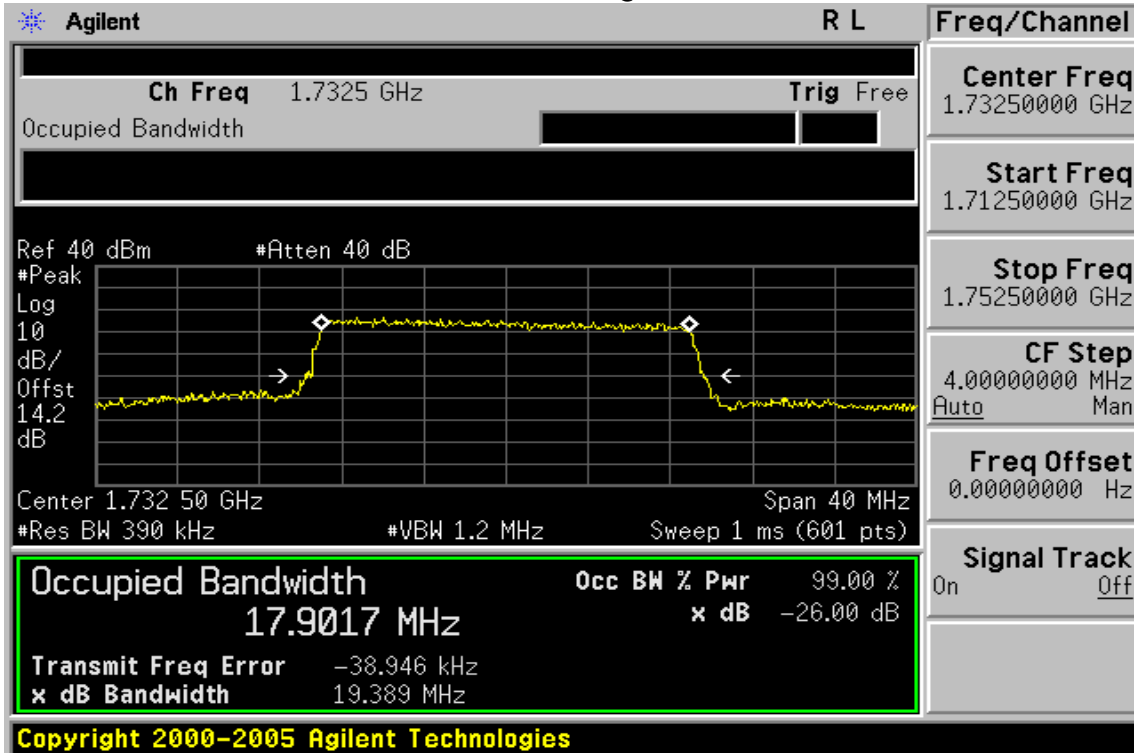
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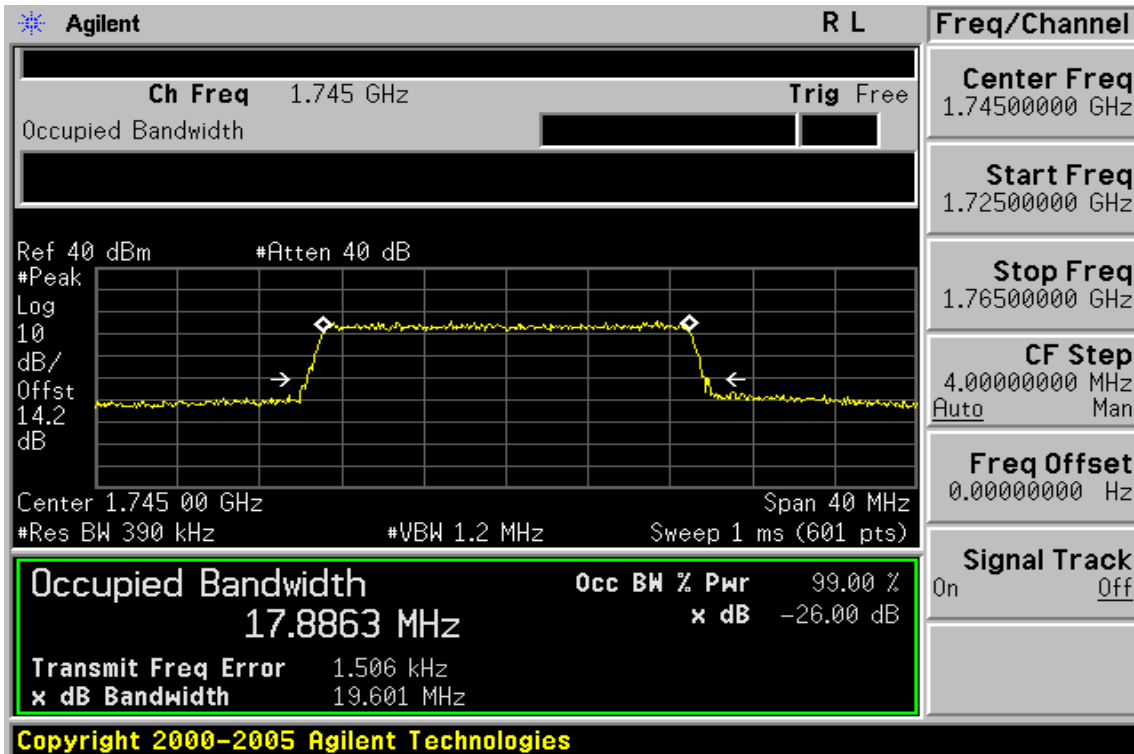
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**20MHz BW LTE-Band 4 QPSK Channel Mid**



**20MHz BW LTE-Band 4 QPSK Channel High**



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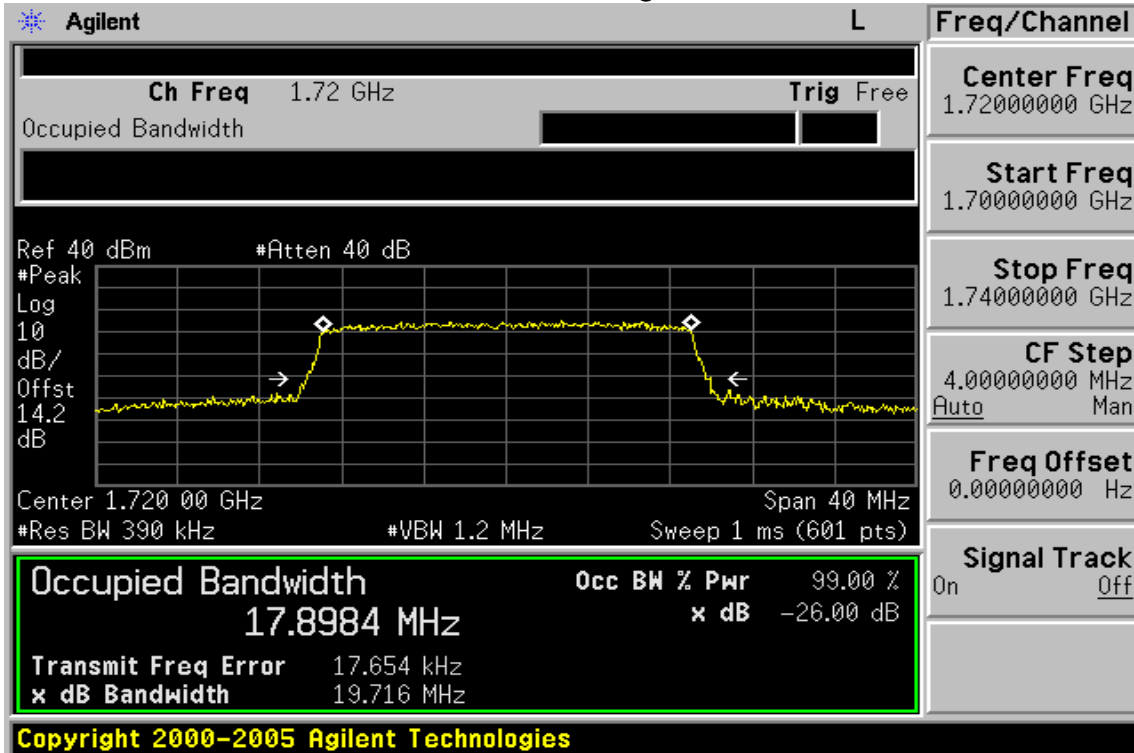
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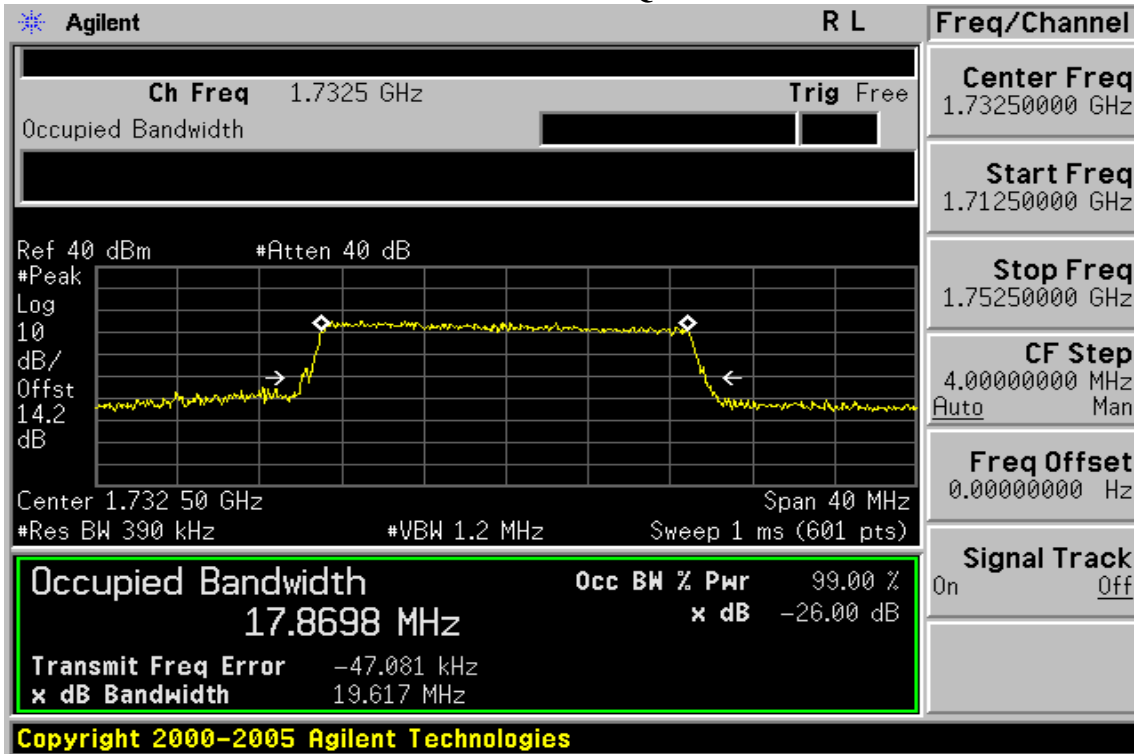
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20MHz BW LTE-Band 4 16QAM Channel Low



20MHz BW LTE-Band 4 16QAM Channel Mid



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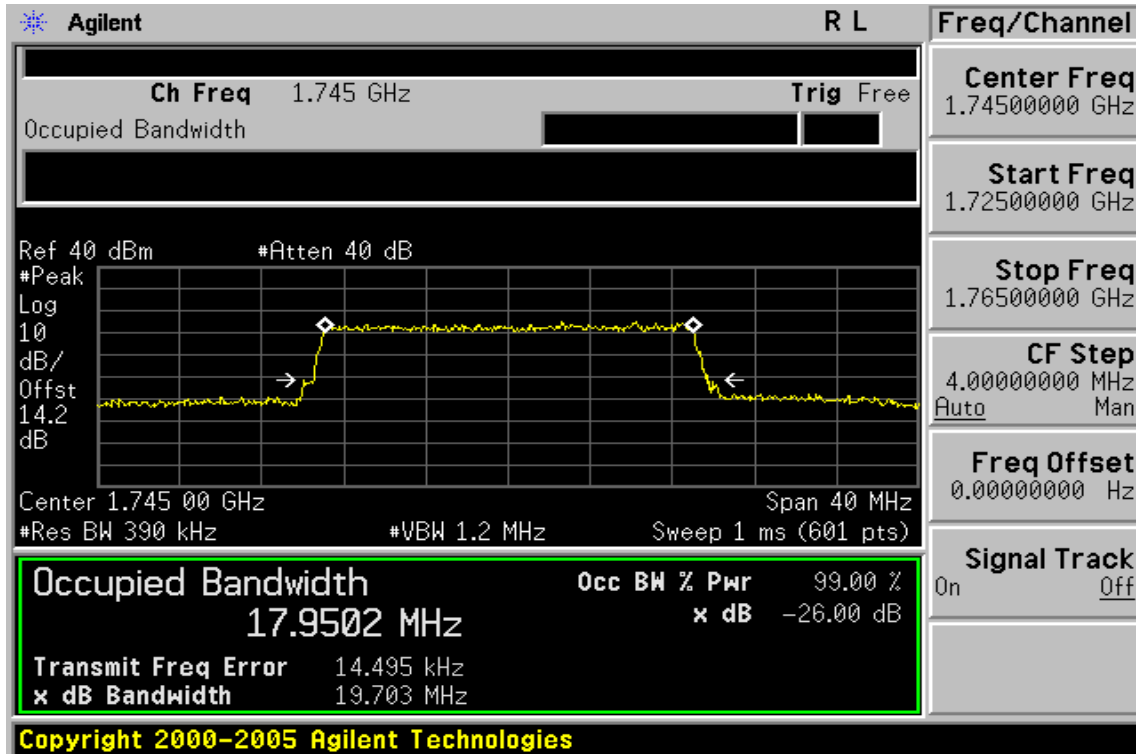
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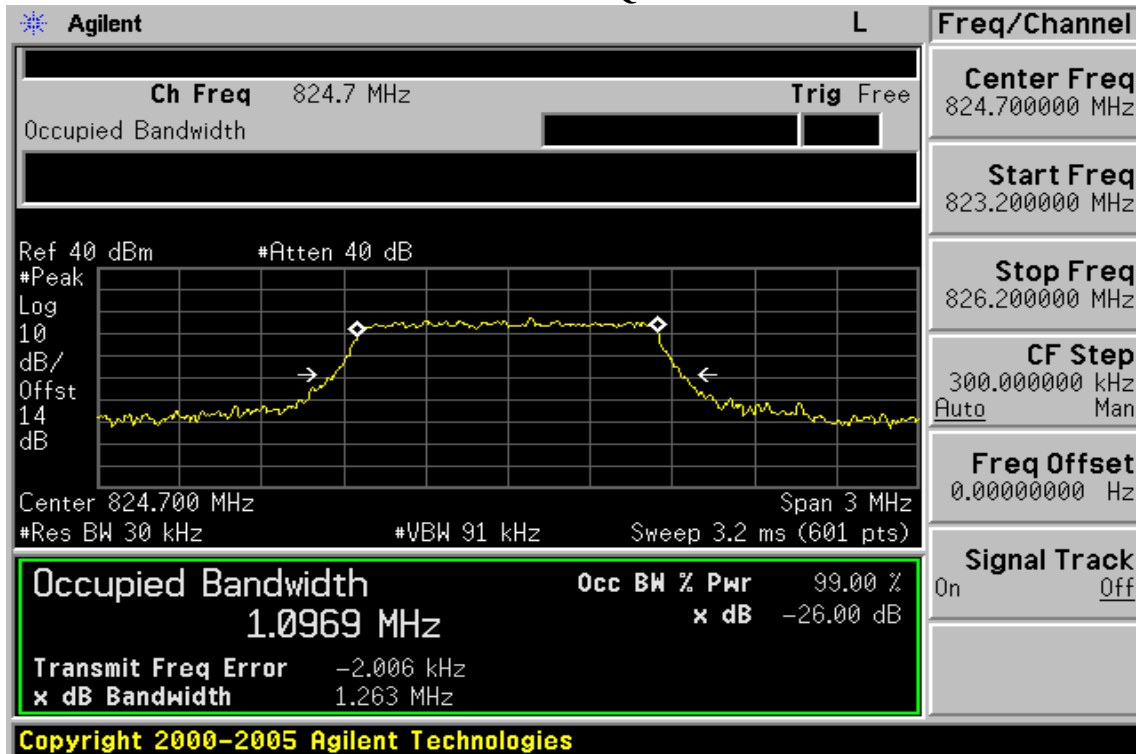
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**20MHz BW LTE-Band 4 16QAM Channel High**



**1.4MHz BW LTE-Band 5 QPSK Channel Low**



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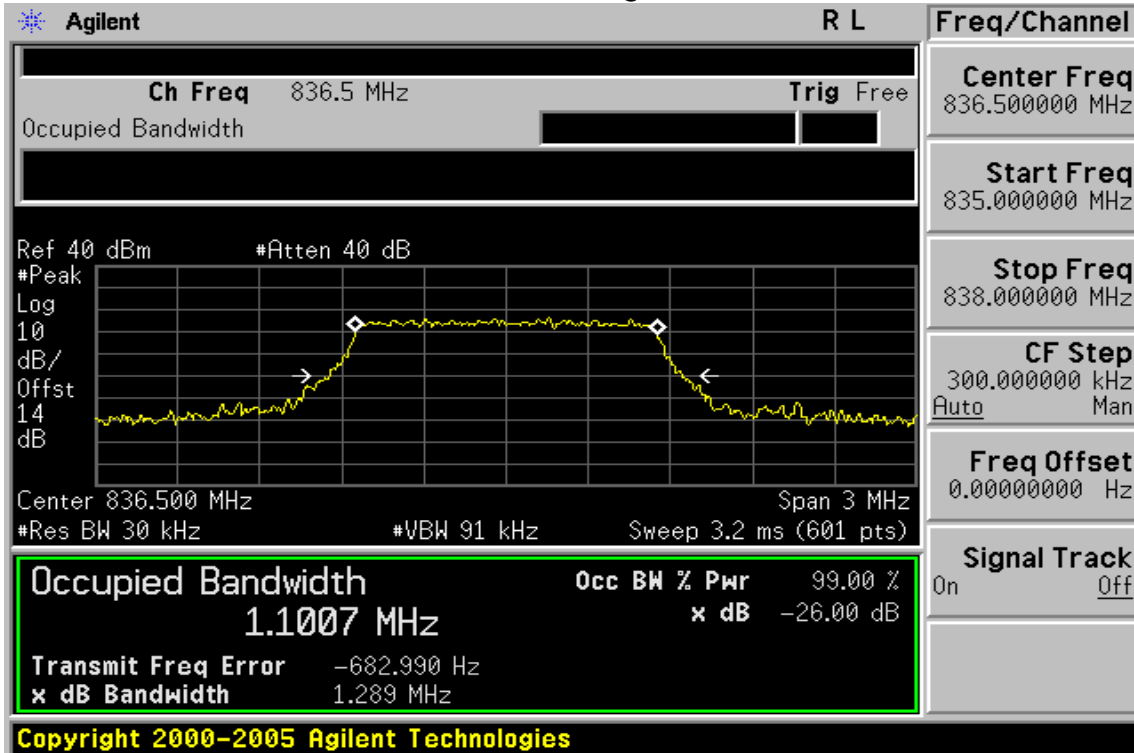
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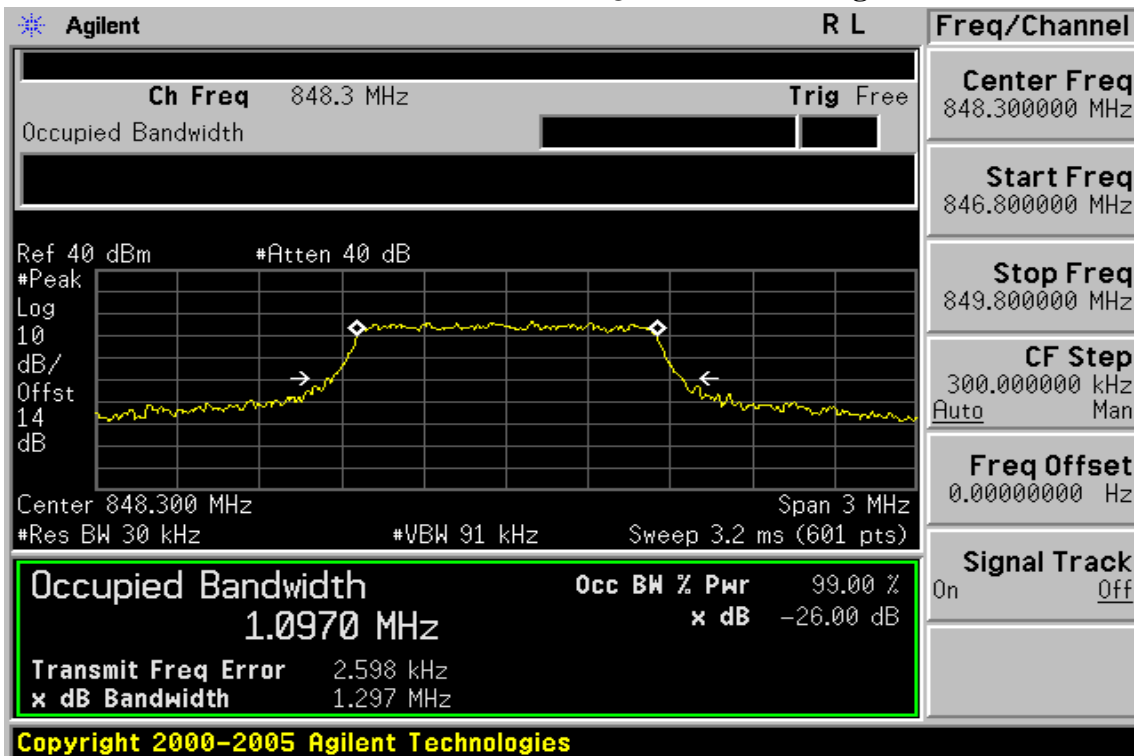
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**1.4MHz BW LTE-Band 5 QPSK Channel Mid**



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



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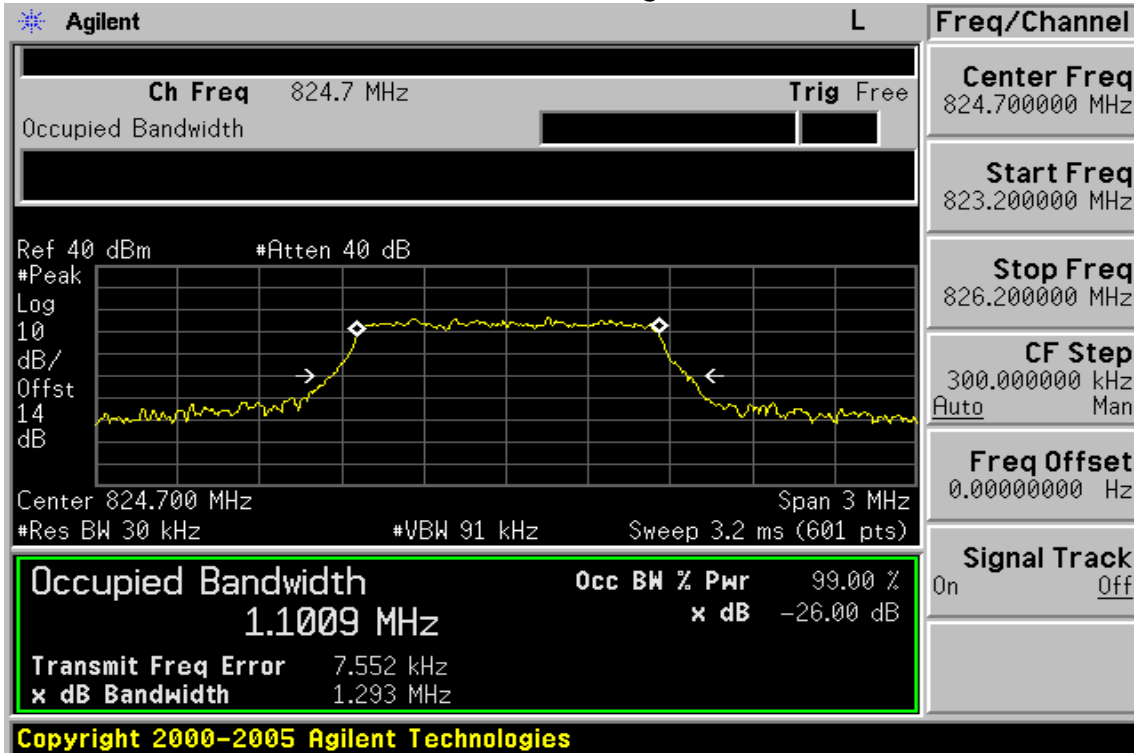
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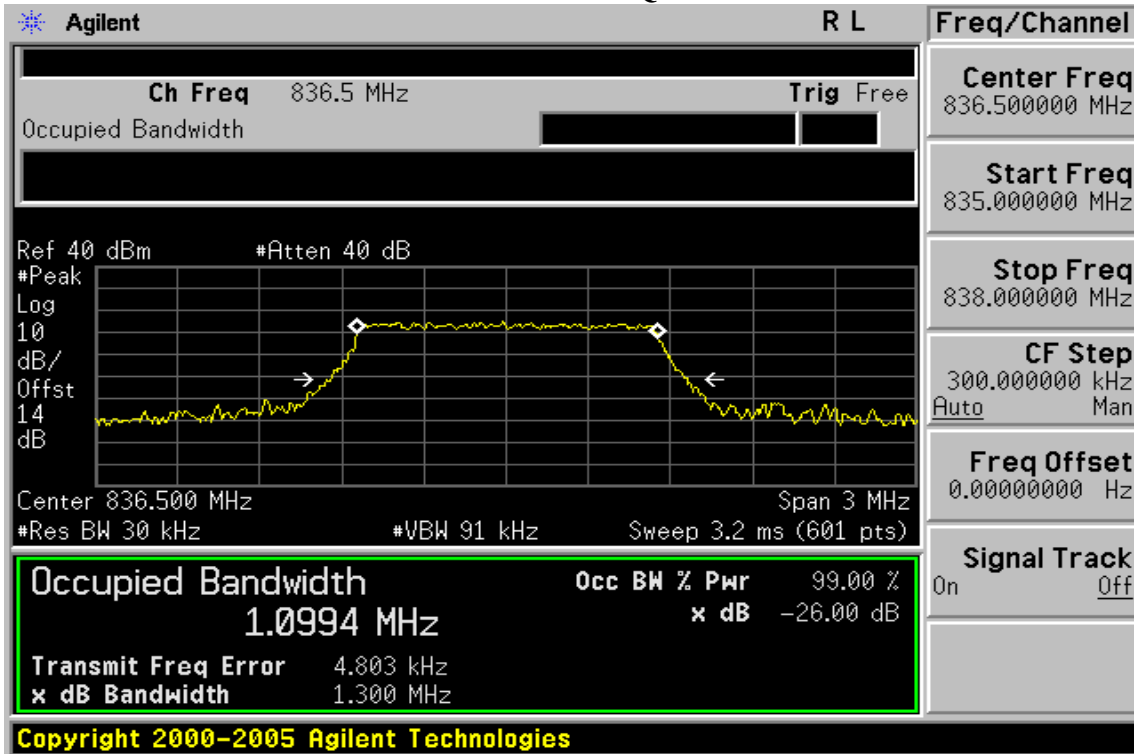
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1.4MHz BW LTE-Band 5 16QAM Channel Low



1.4MHz BW LTE-Band 5 16QAM Channel Mid



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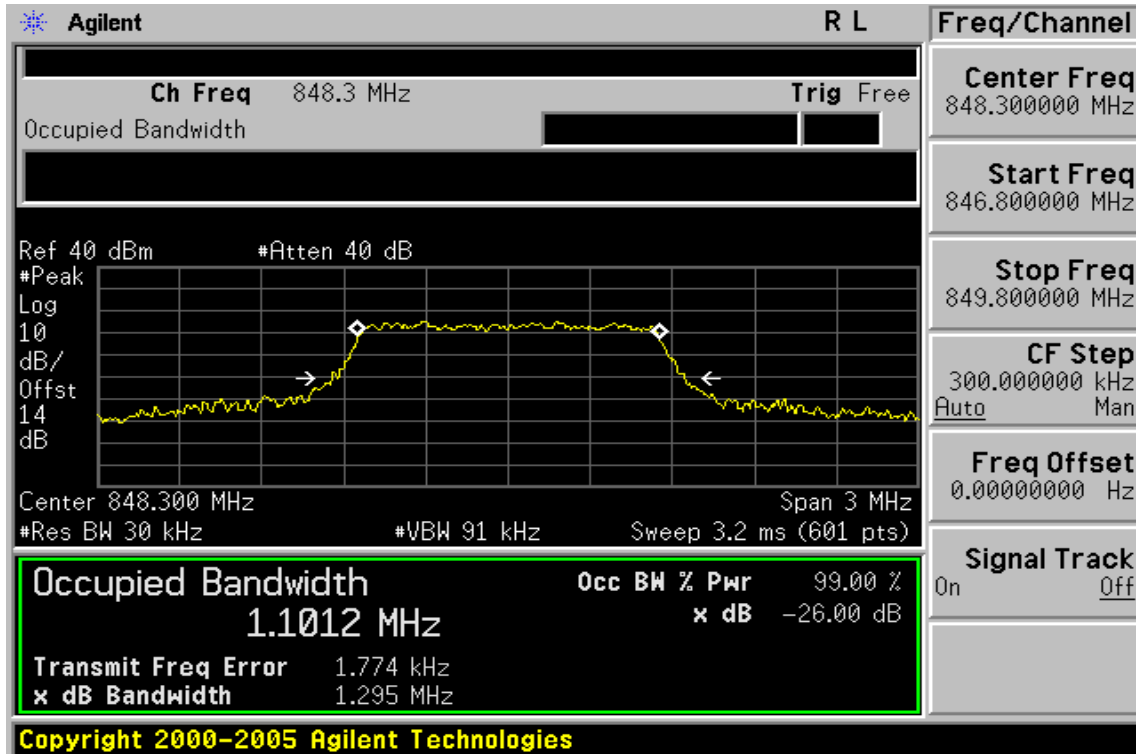
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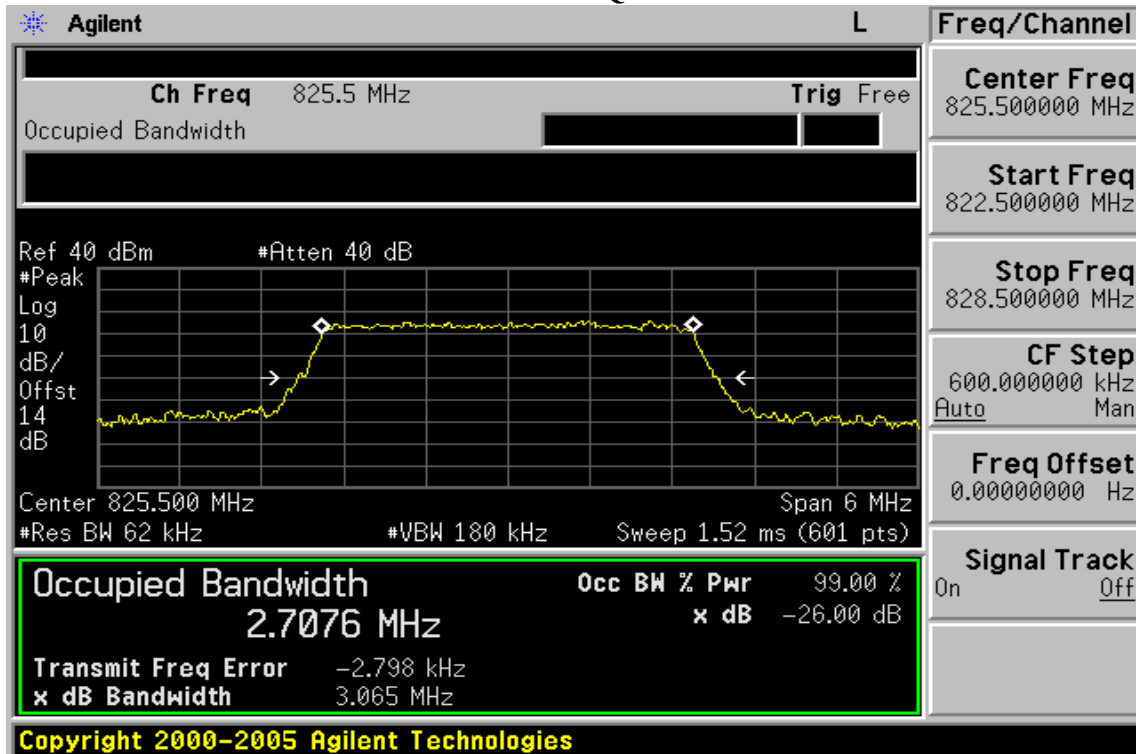
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**1.4MHz BW LTE-Band 5 16QAM Channel High**



**3MHz BW LTE-Band 5 QPSK Channel Low**



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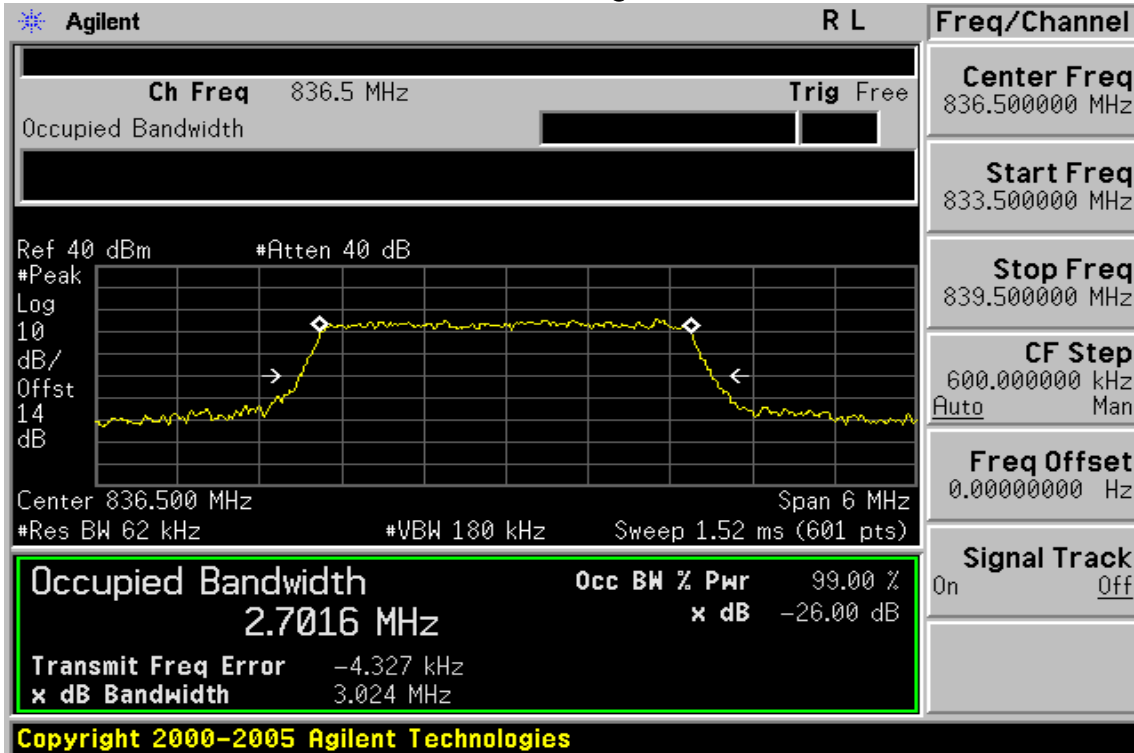
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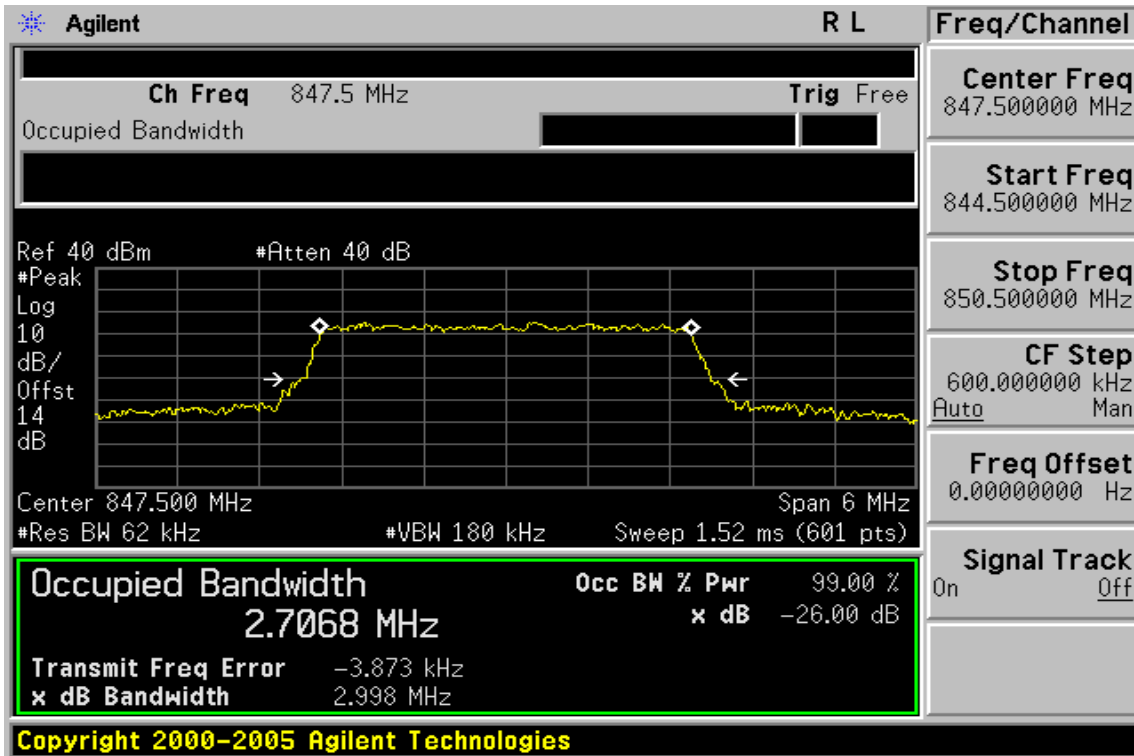
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3MHz BW LTE-Band 5 QPSK Channel Mid



3MHz BW LTE-Band 5 QPSK Channel High



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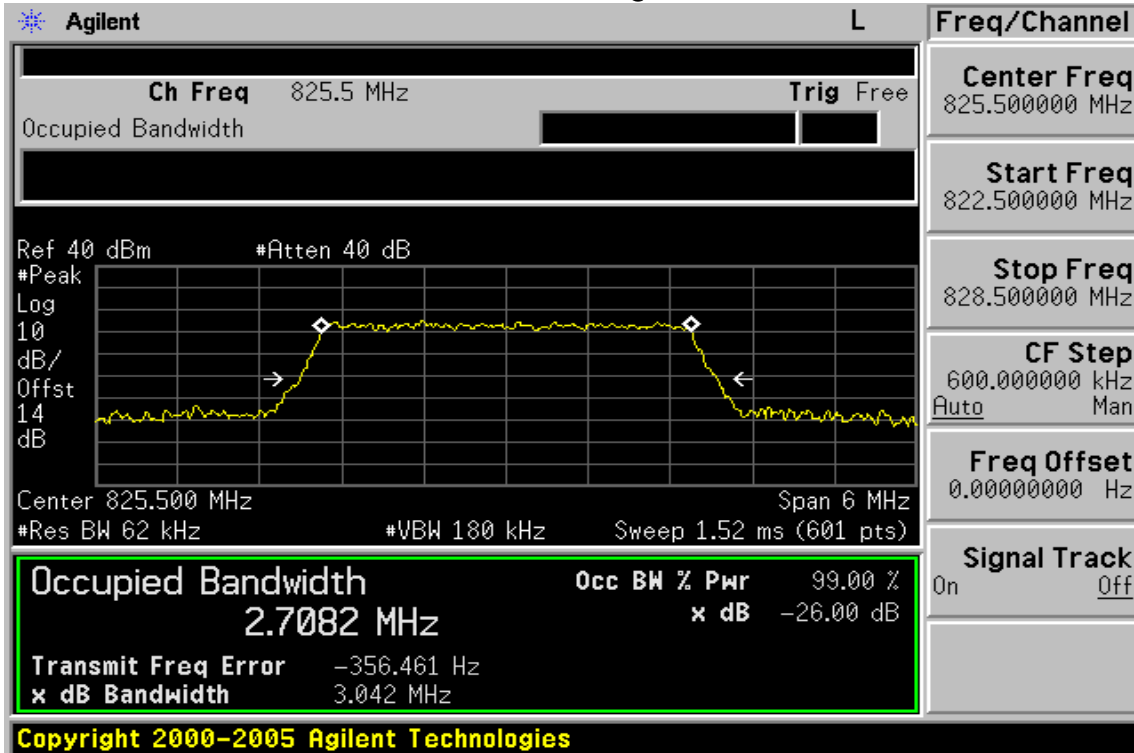
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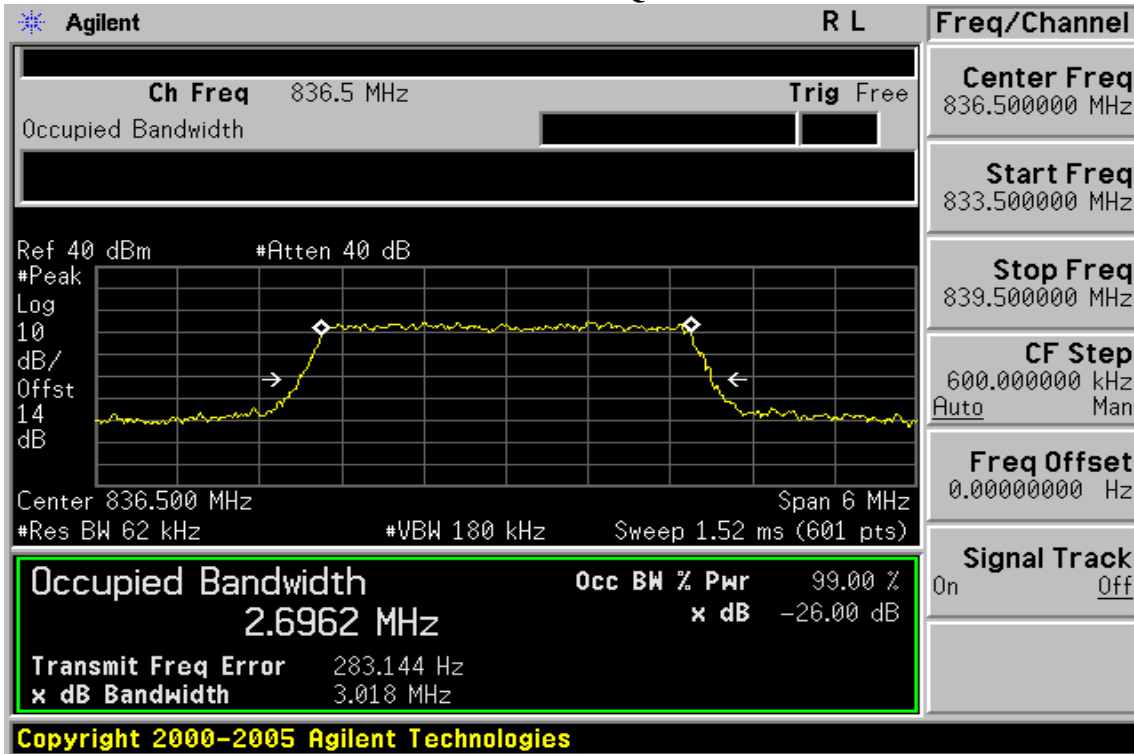
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3MHz BW LTE-Band 5 16QAM Channel Low



3MHz BW LTE-Band 5 16QAM Channel Mid



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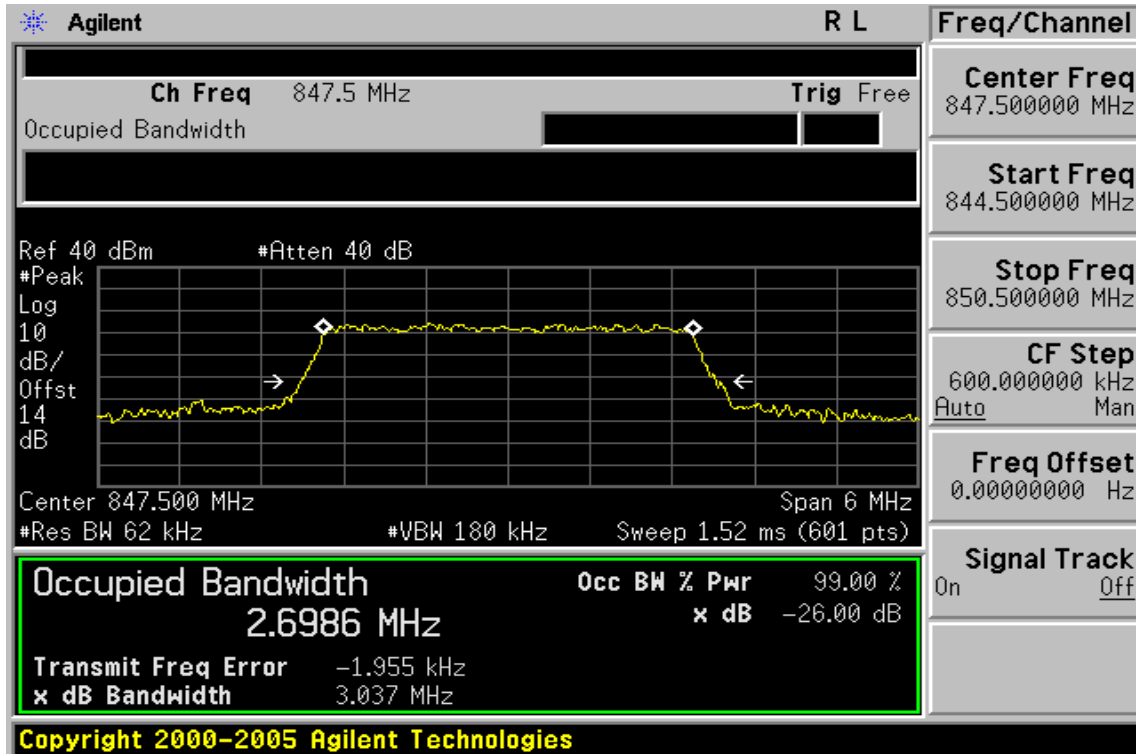
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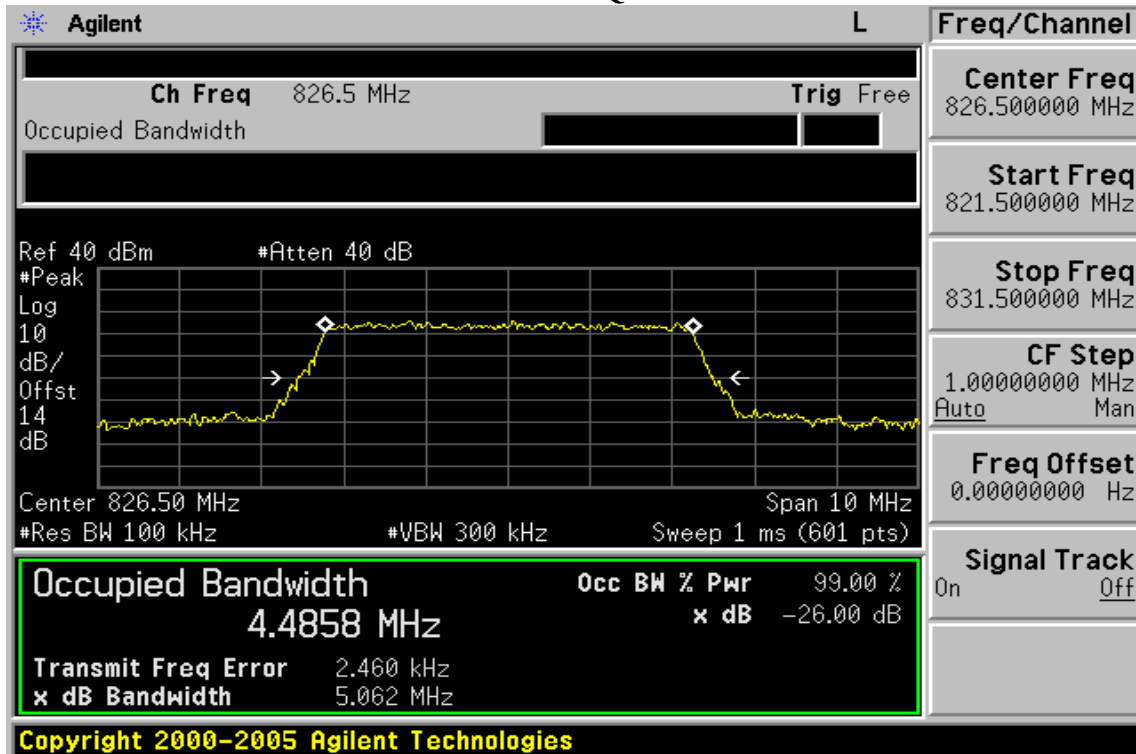
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### 3MHz BW LTE-Band 5 16QAM Channel High



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



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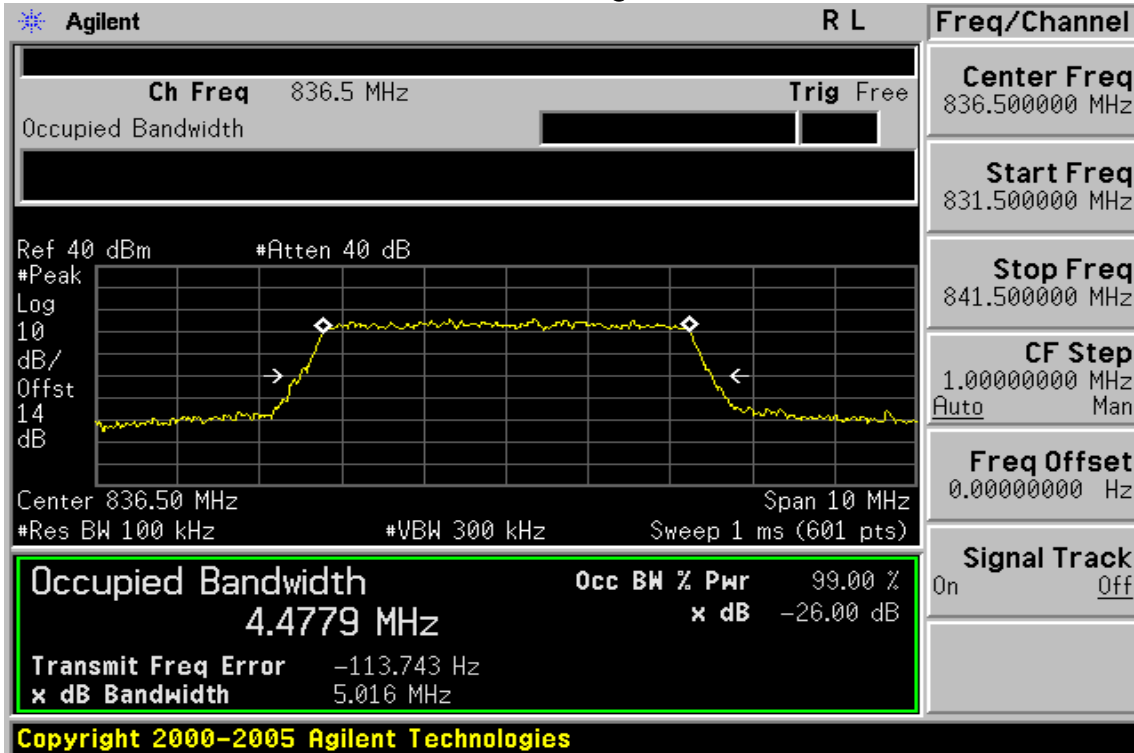
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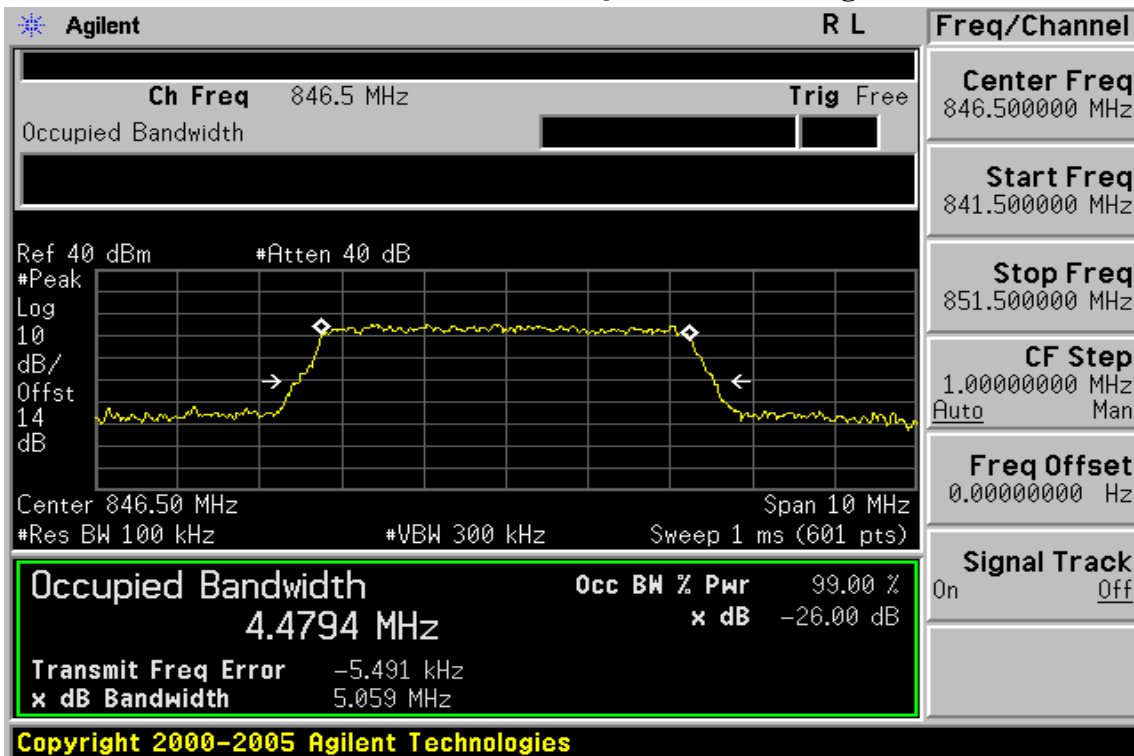
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5MHz BW LTE-Band 5 QPSK Channel Mid



5MHz BW LTE-Band 5 QPSK Channel High



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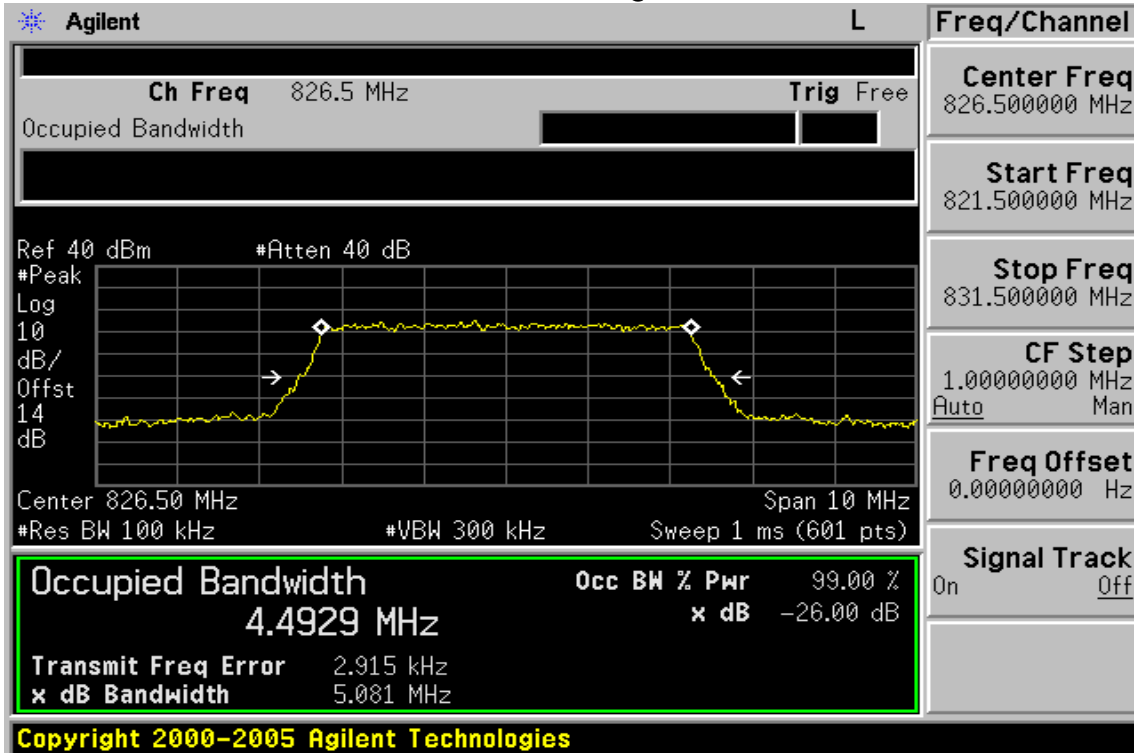
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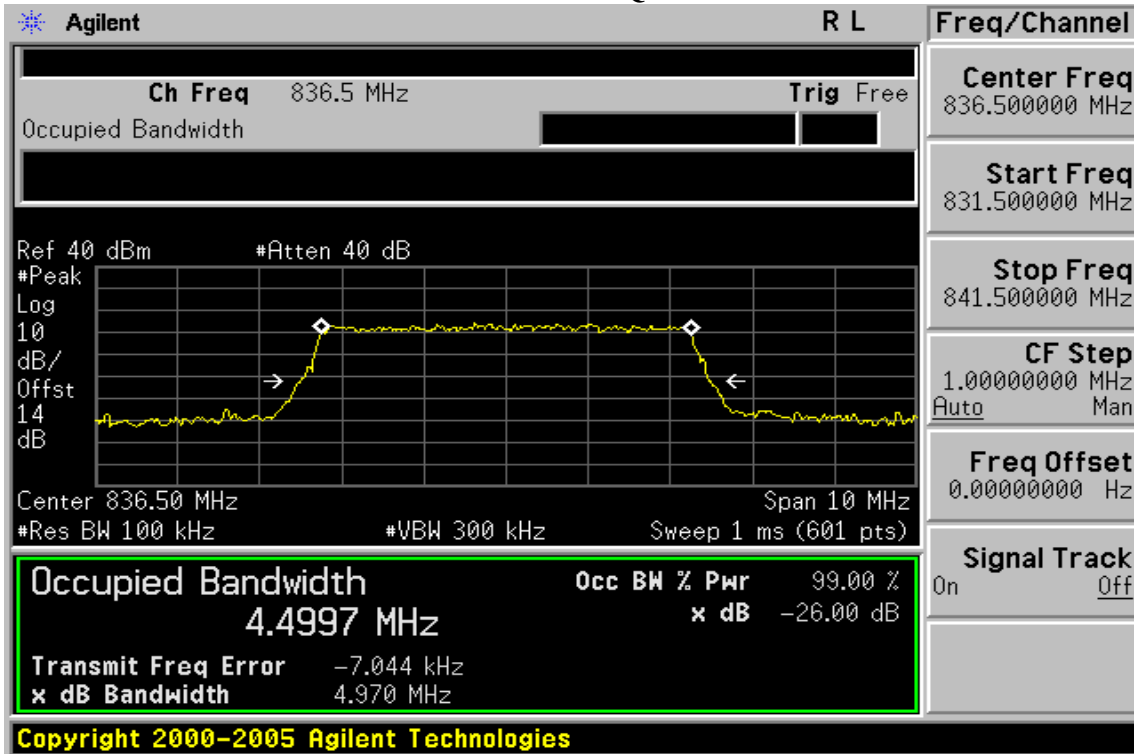
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5MHz BW LTE-Band 5 16QAM Channel Low



5MHz BW LTE-Band 5 16QAM Channel Mid



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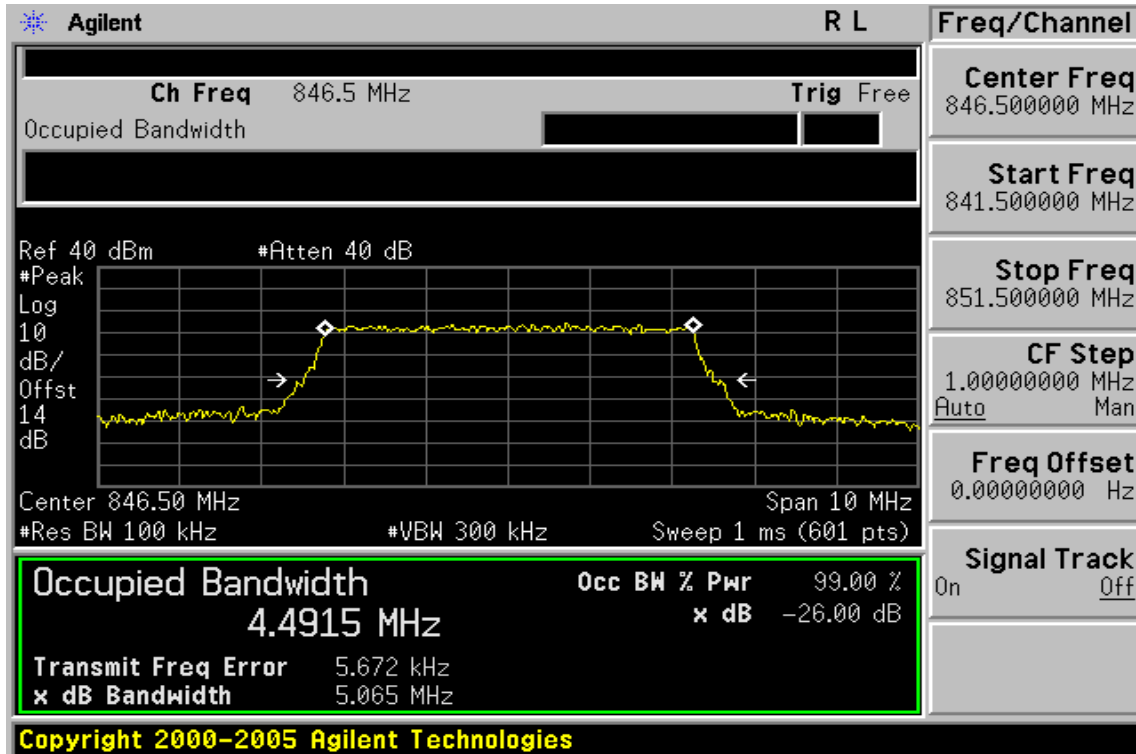
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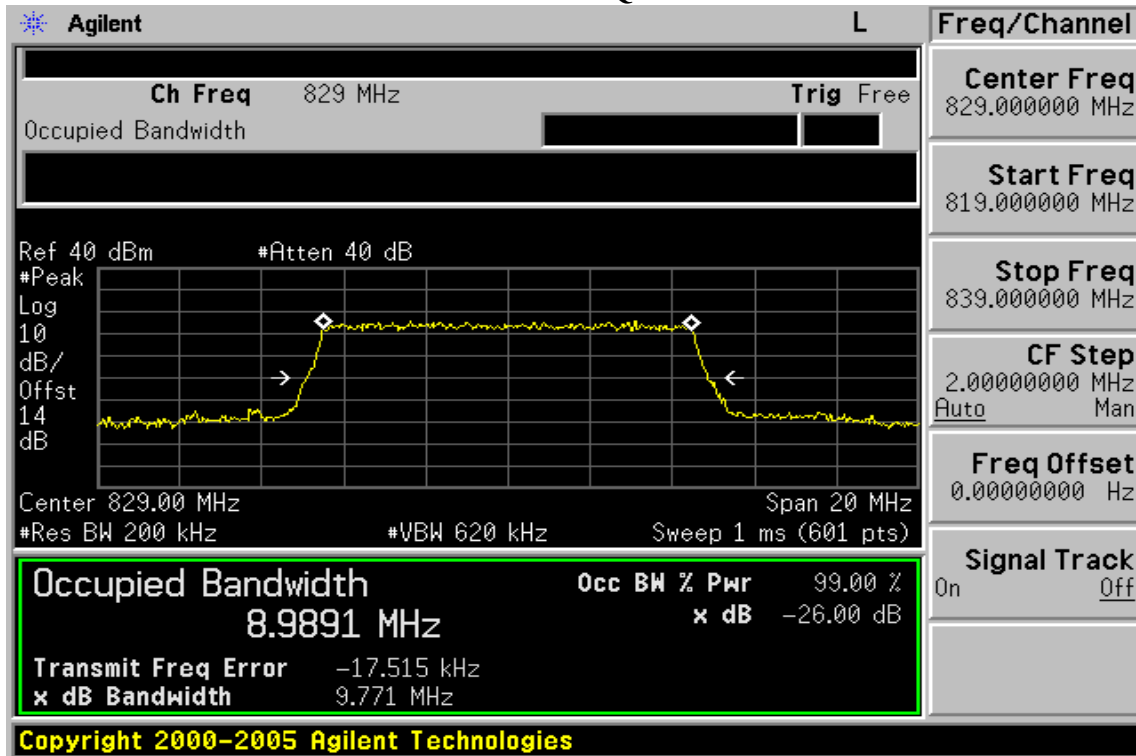
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**5MHz BW LTE-Band 5 16QAM Channel High**



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



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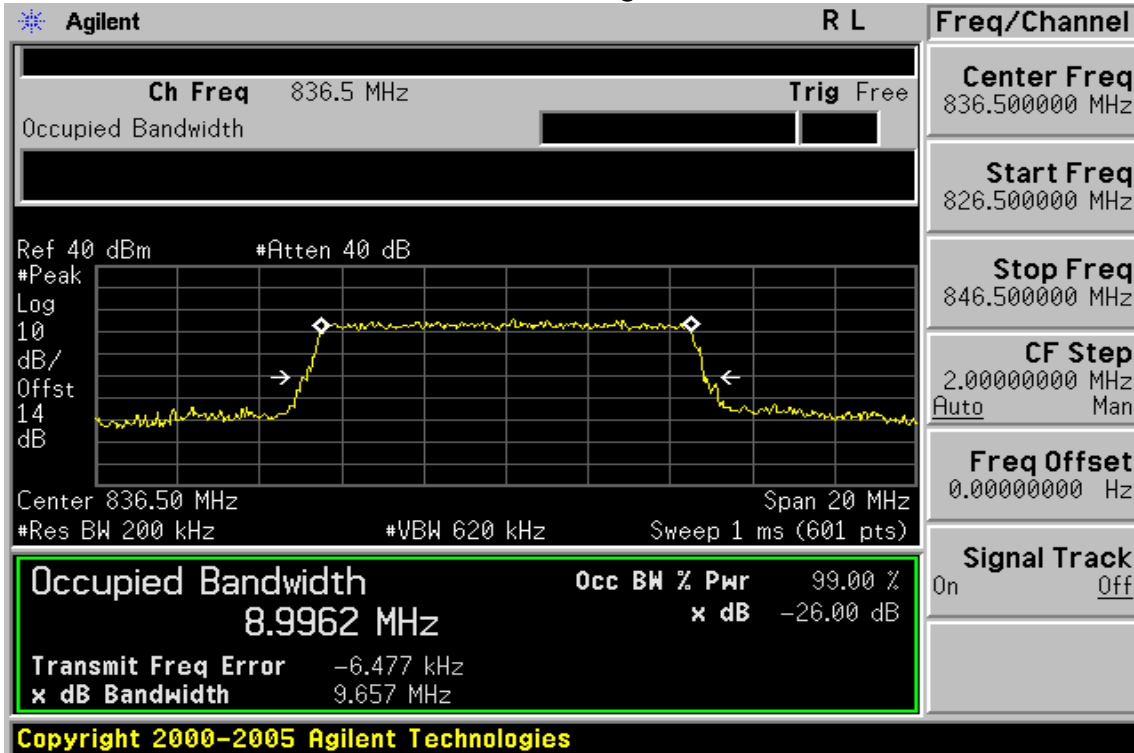
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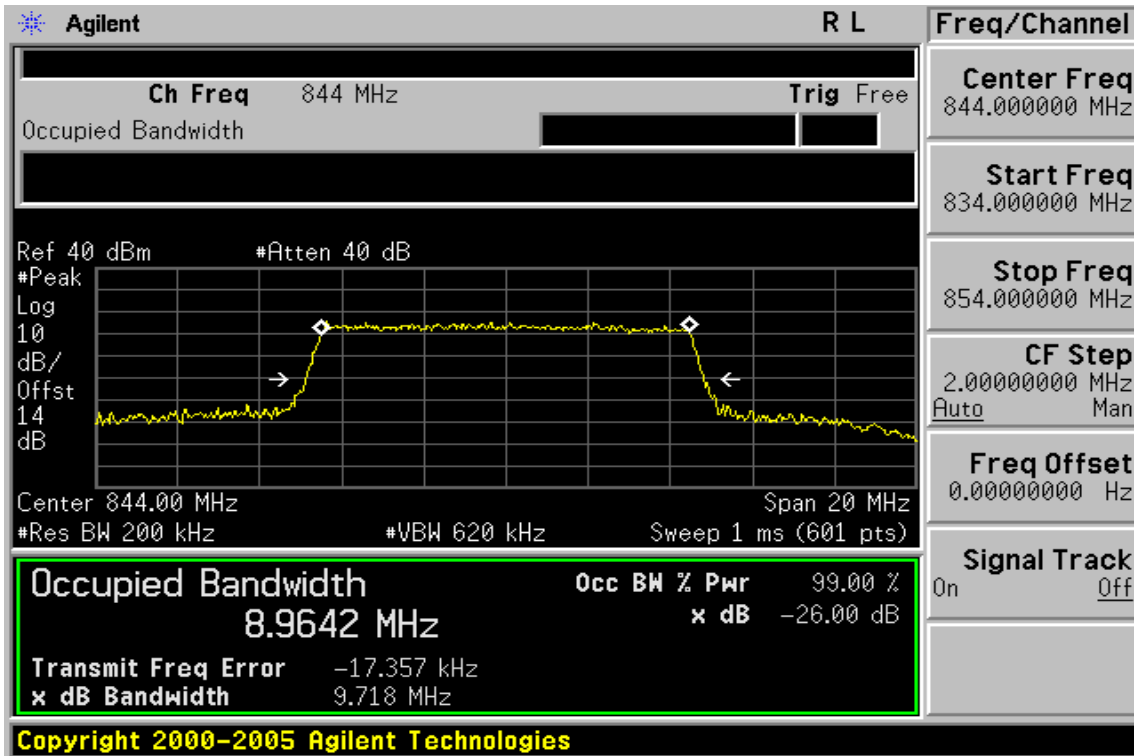
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10MHz BW LTE-Band 5 QPSK Channel Mid



5MHz BW LTE-Band 5 16QAM Channel High



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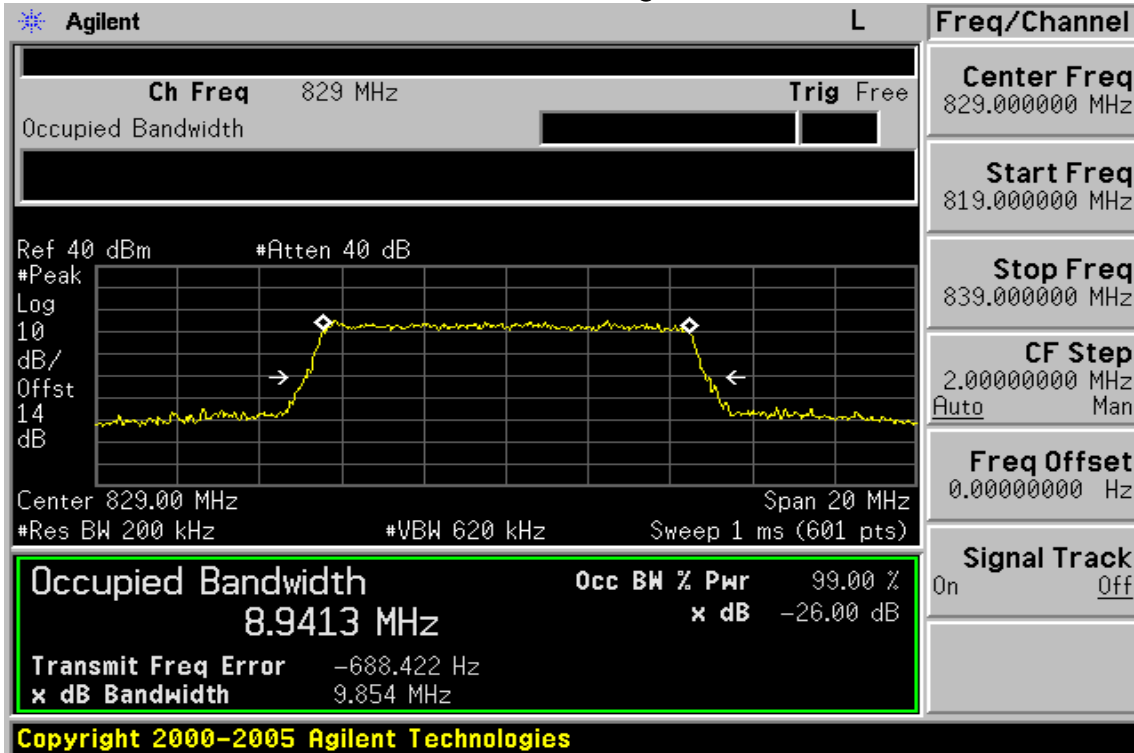
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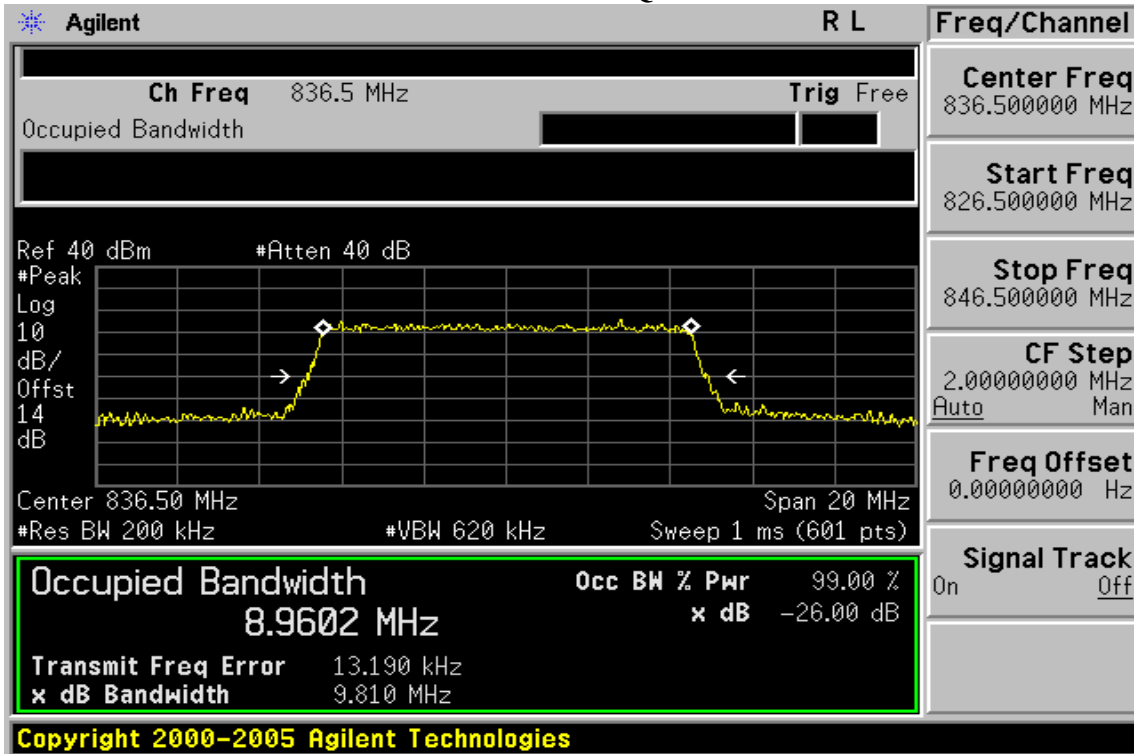
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10MHz BW LTE-Band 5 16QAM Channel Low



10MHz BW LTE-Band 5 16QAM Channel Mid



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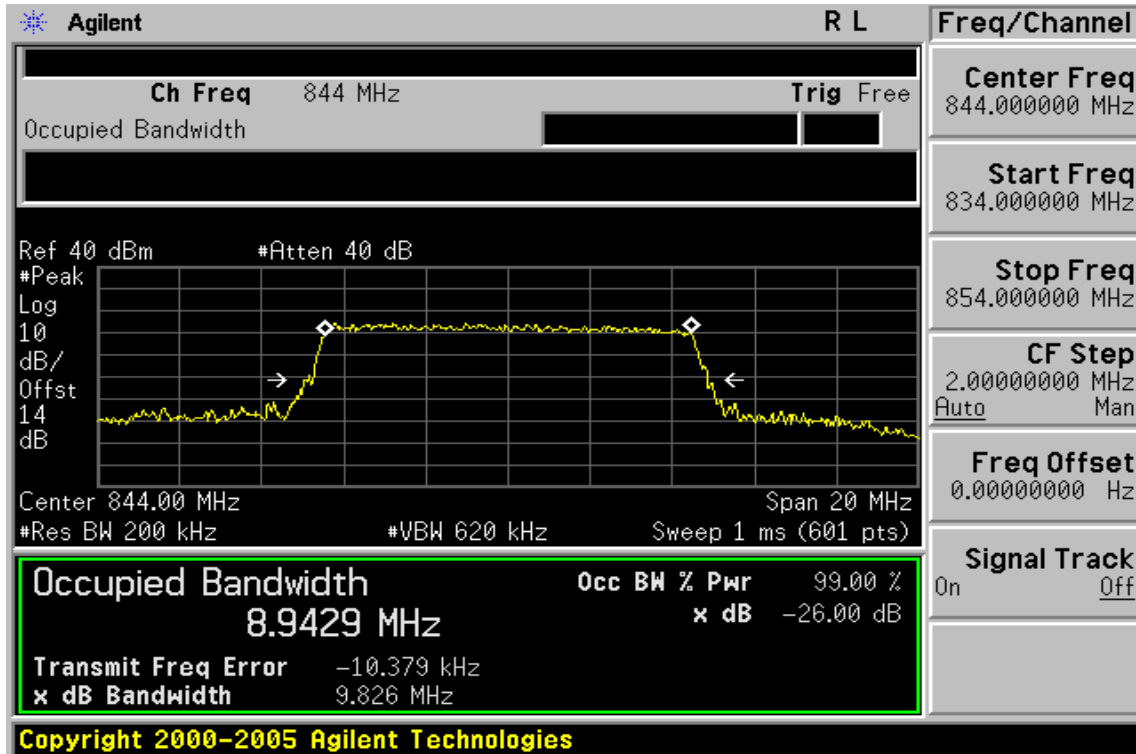
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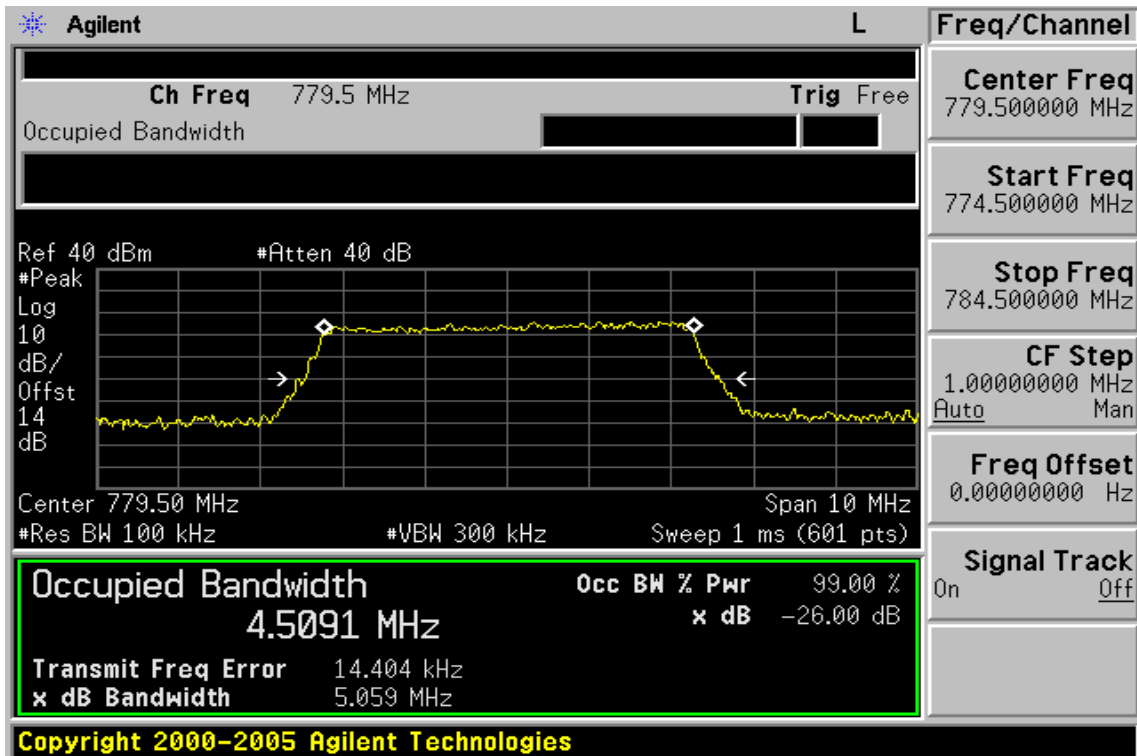
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**10MHz BW LTE-Band 5 16QAM Channel High**



**5MHz BW LTE-Band 13 QPSK Channel Low**



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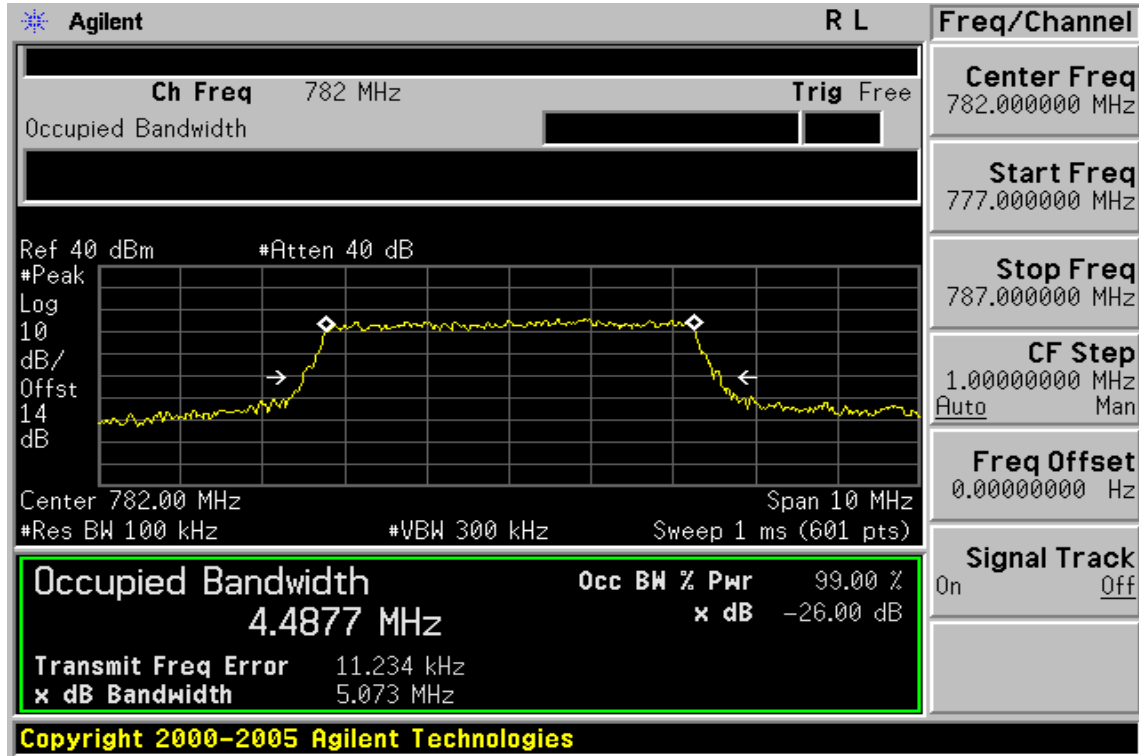
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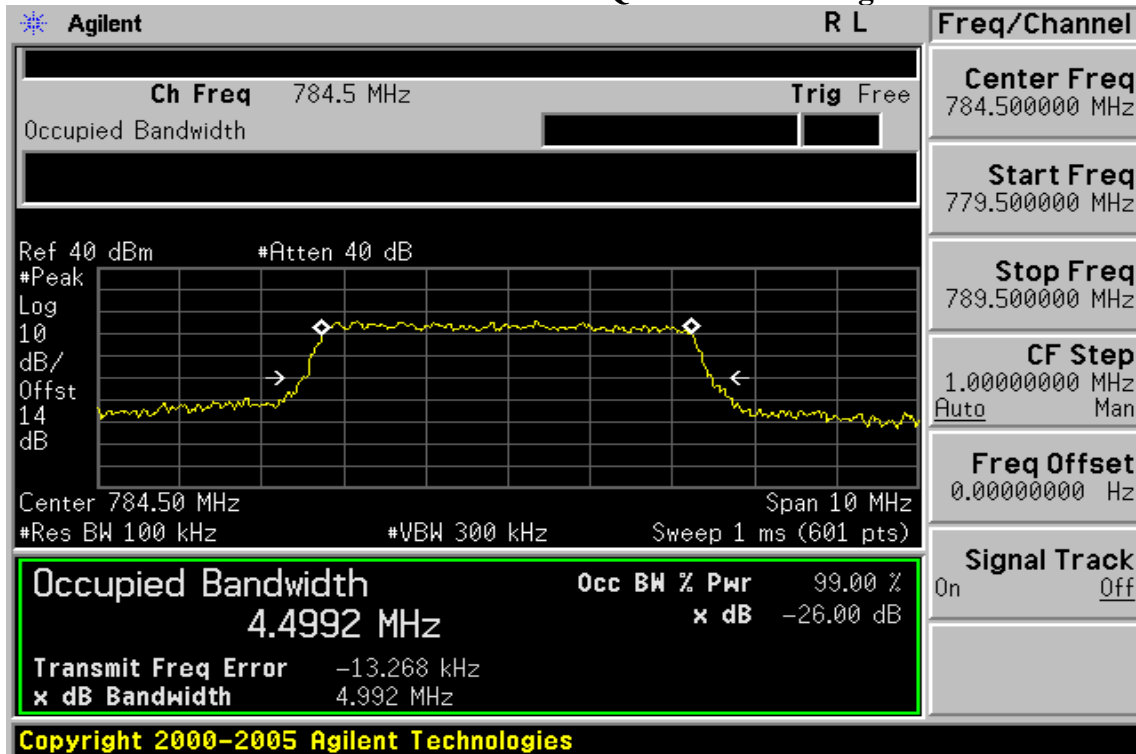
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5MHz BW LTE-Band 13 QPSK Channel Mid



5MHz BW LTE-Band 13 QPSK Channel High



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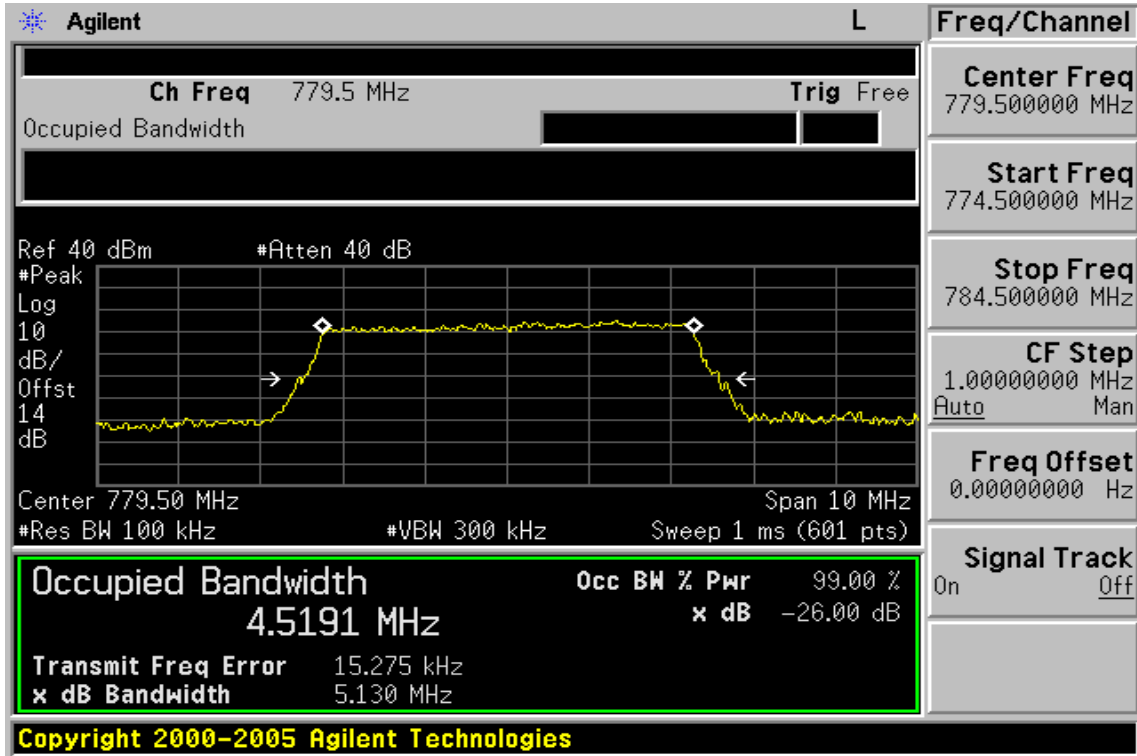
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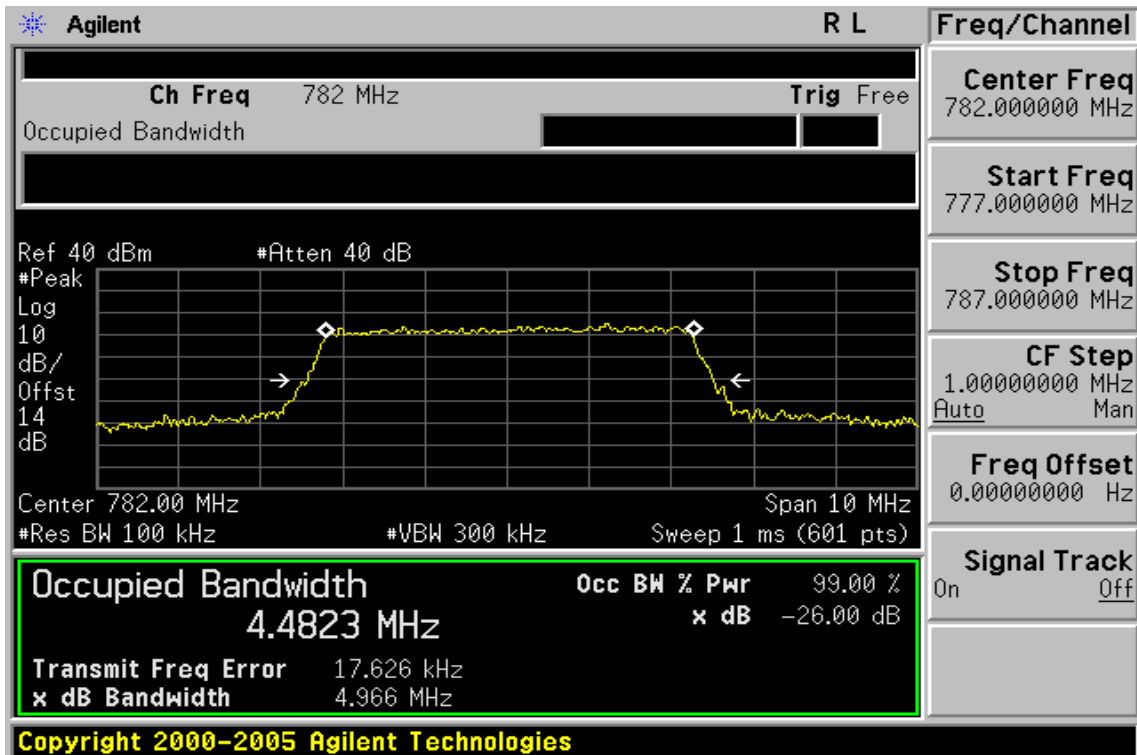
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5MHz BW LTE-Band 13 16QAM Channel Low



5MHz BW LTE-Band 13 16QAM Channel Mid



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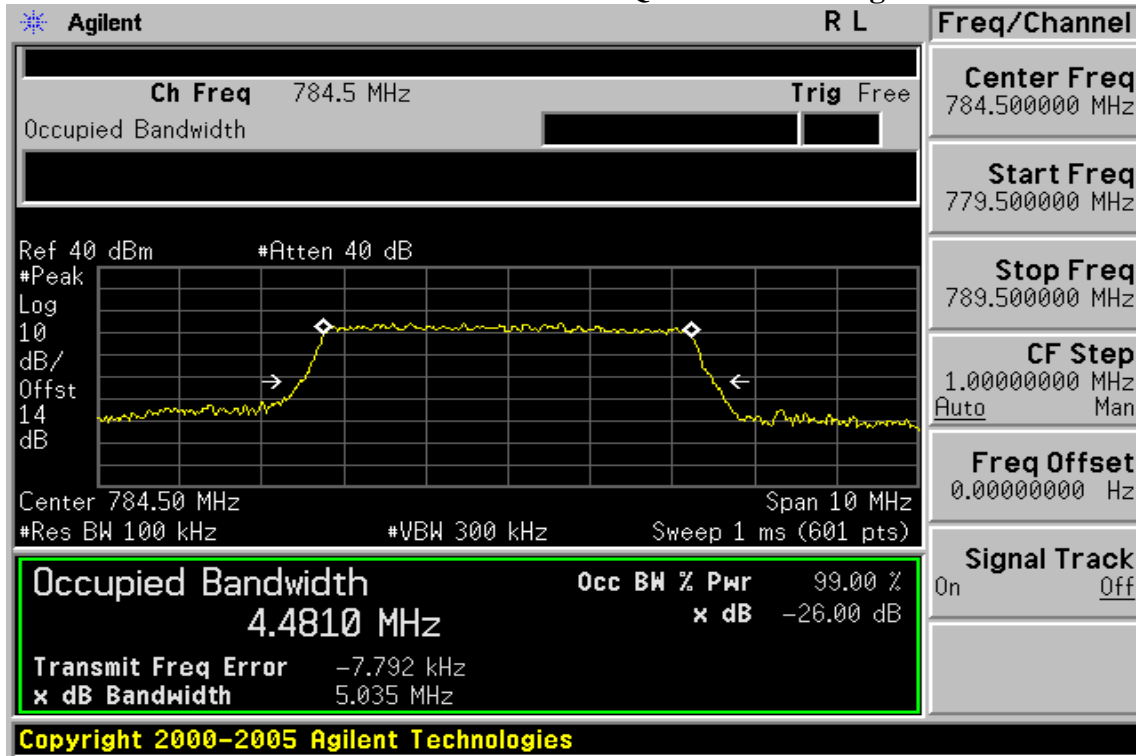
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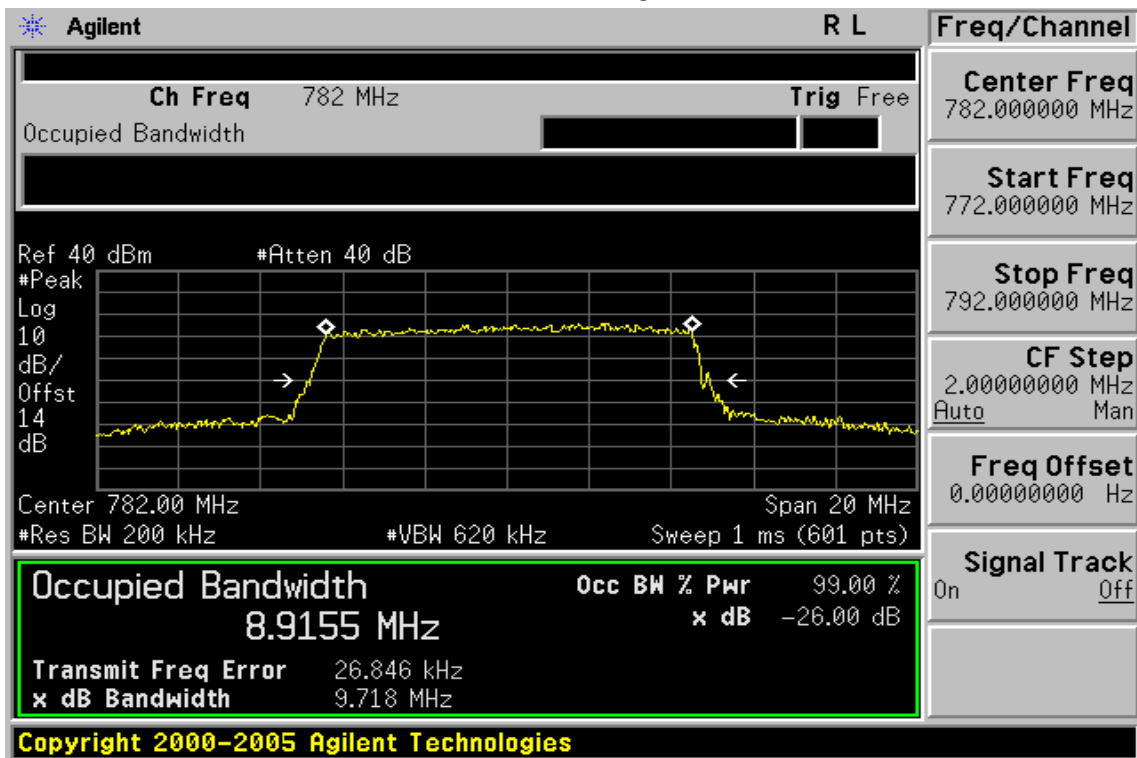
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**5MHz BW LTE-Band 13 16QAM Channel High**



**10MHz BW LTE-Band 13 QPSK Channel Mid**



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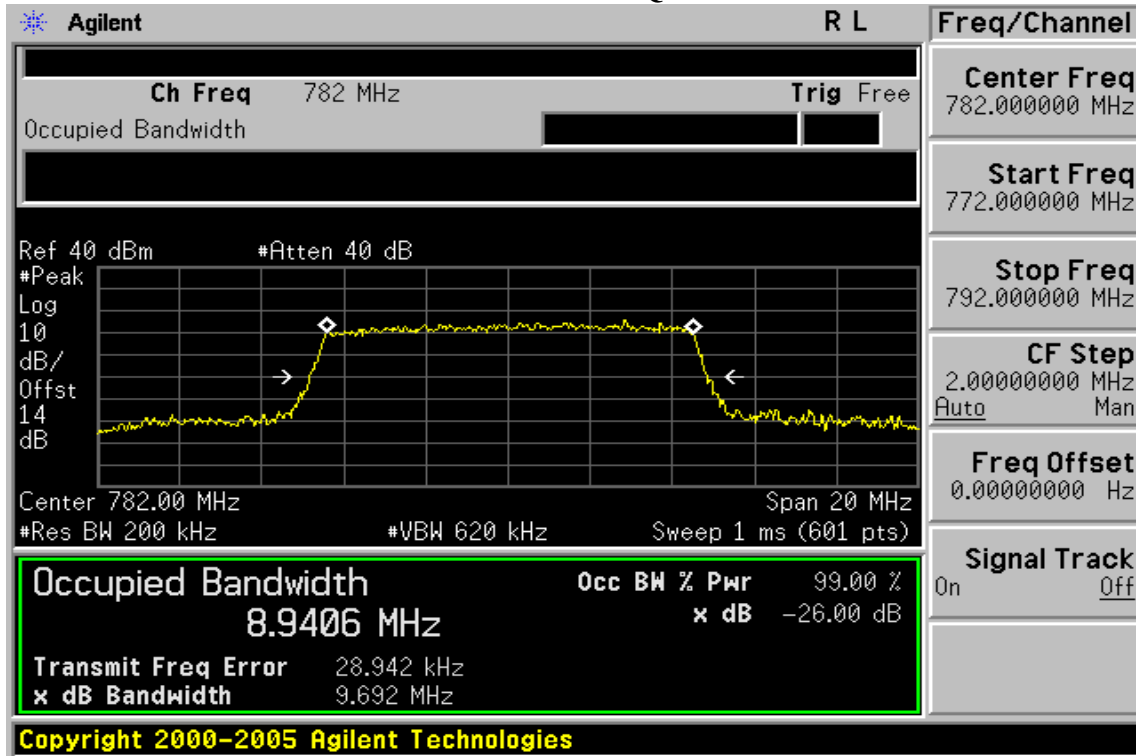
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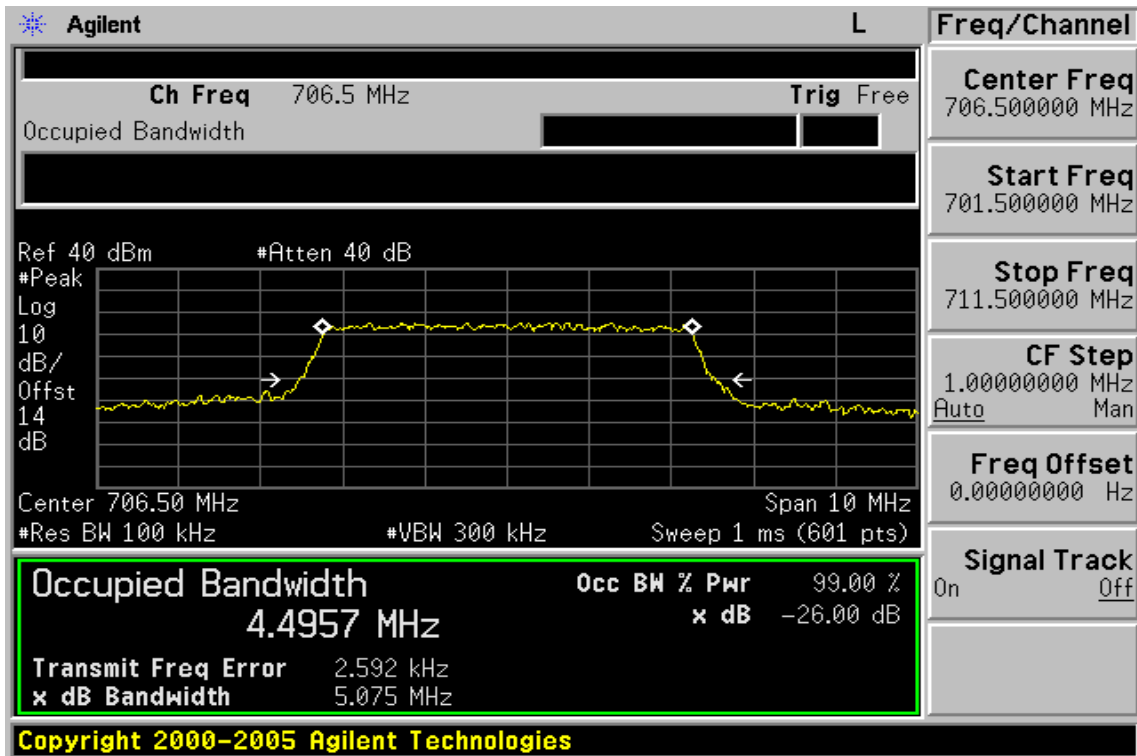
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10MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 17 QPSK Channel Low



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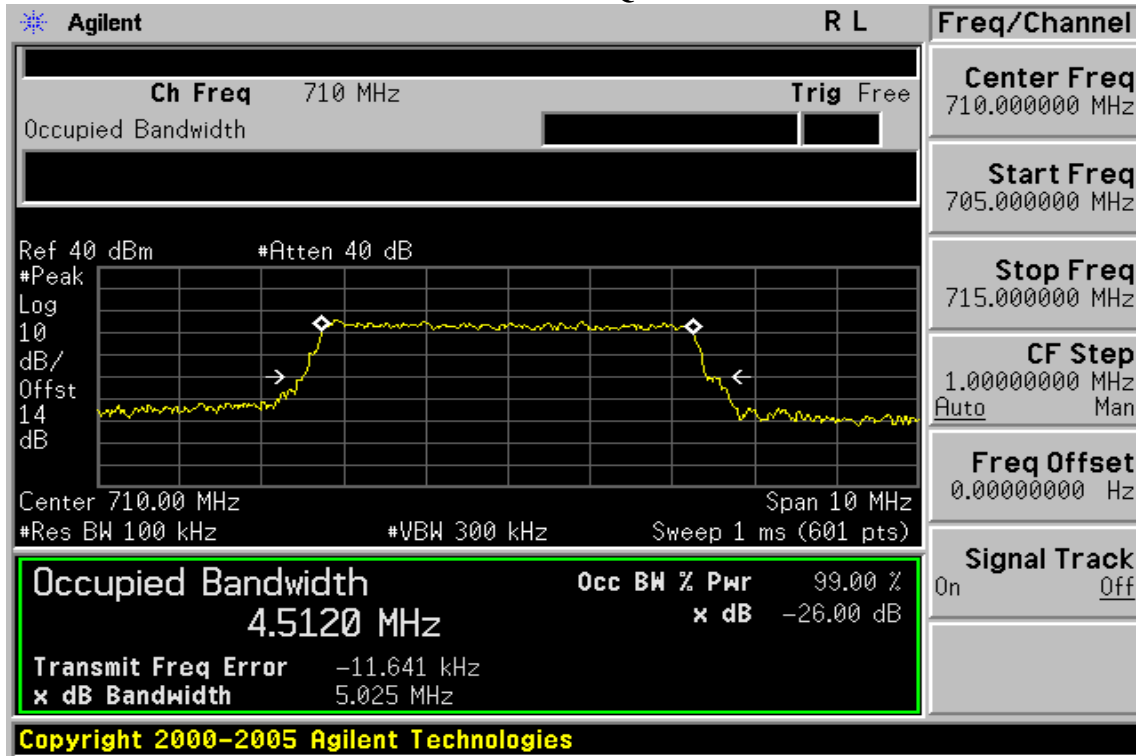
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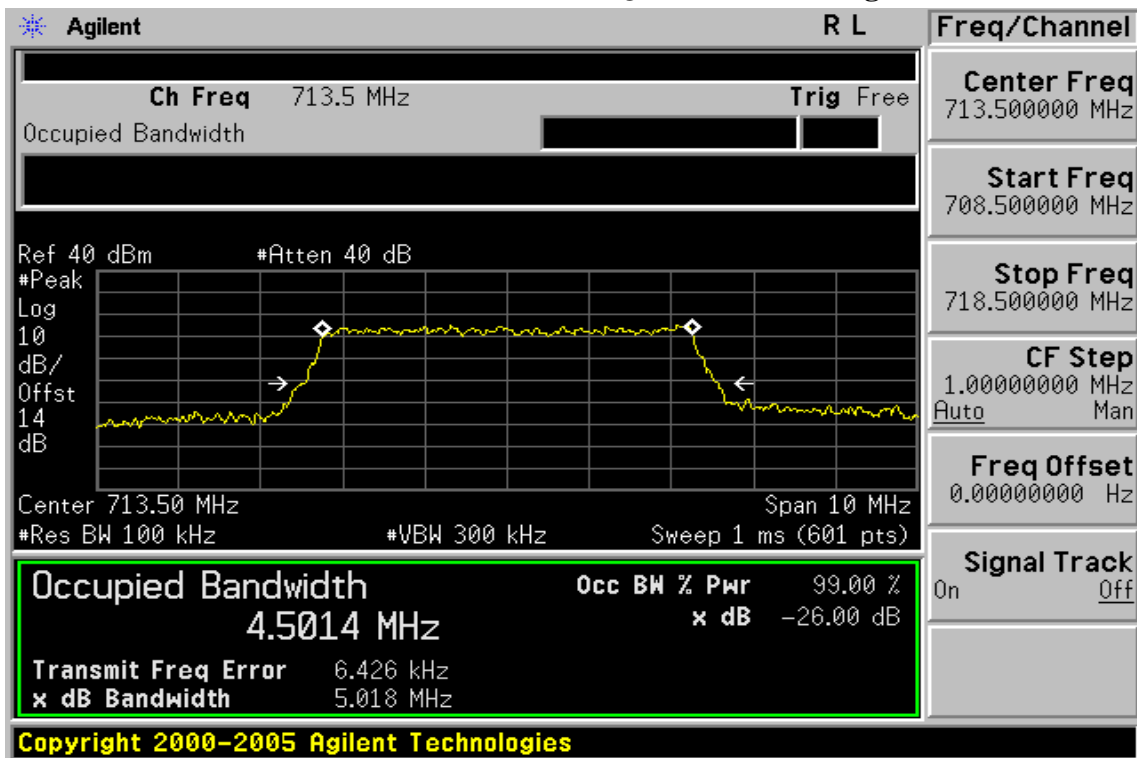
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5MHz BW LTE-Band 17 QPSK Channel Mid



5MHz BW LTE-Band 17 QPSK Channel High



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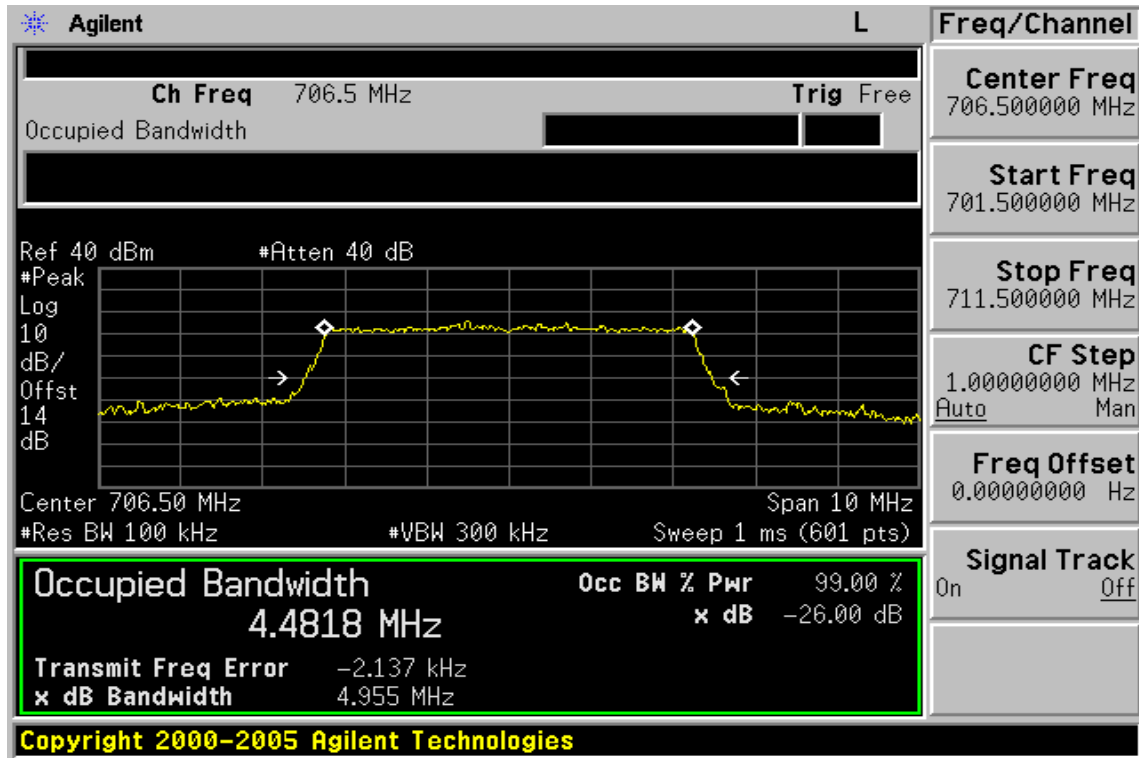
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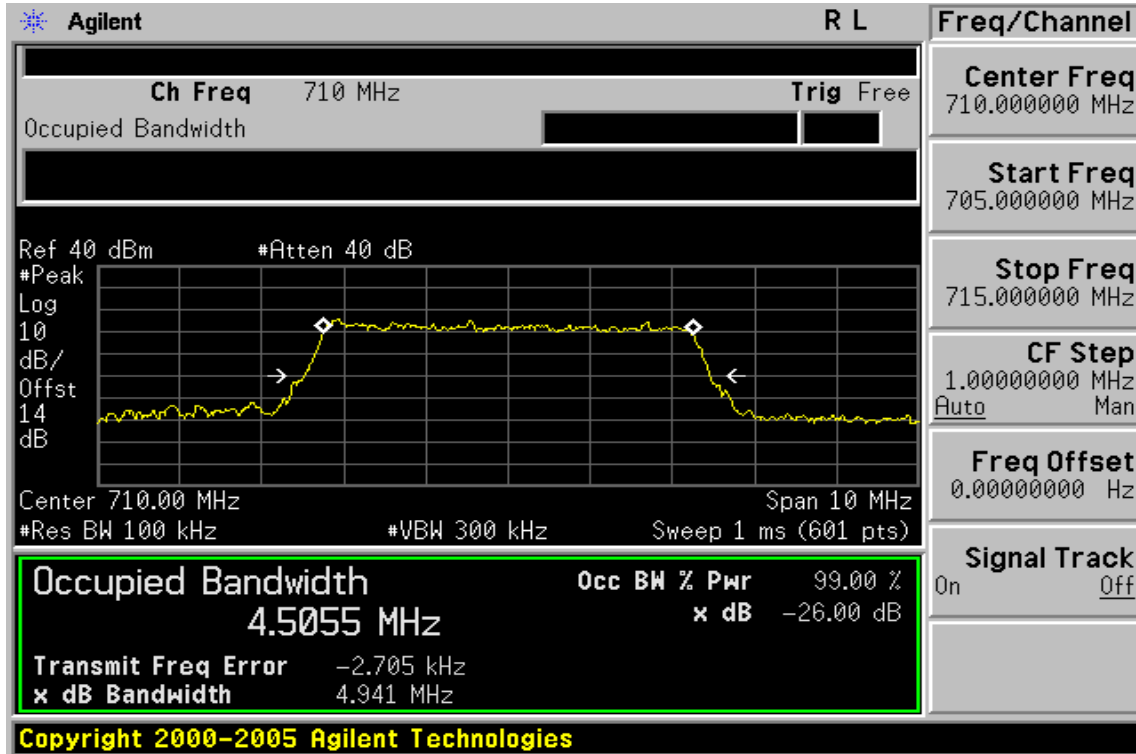
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5MHz BW LTE-Band 17 16QAM Channel Low



5MHz BW LTE-Band 17 Channel Mid



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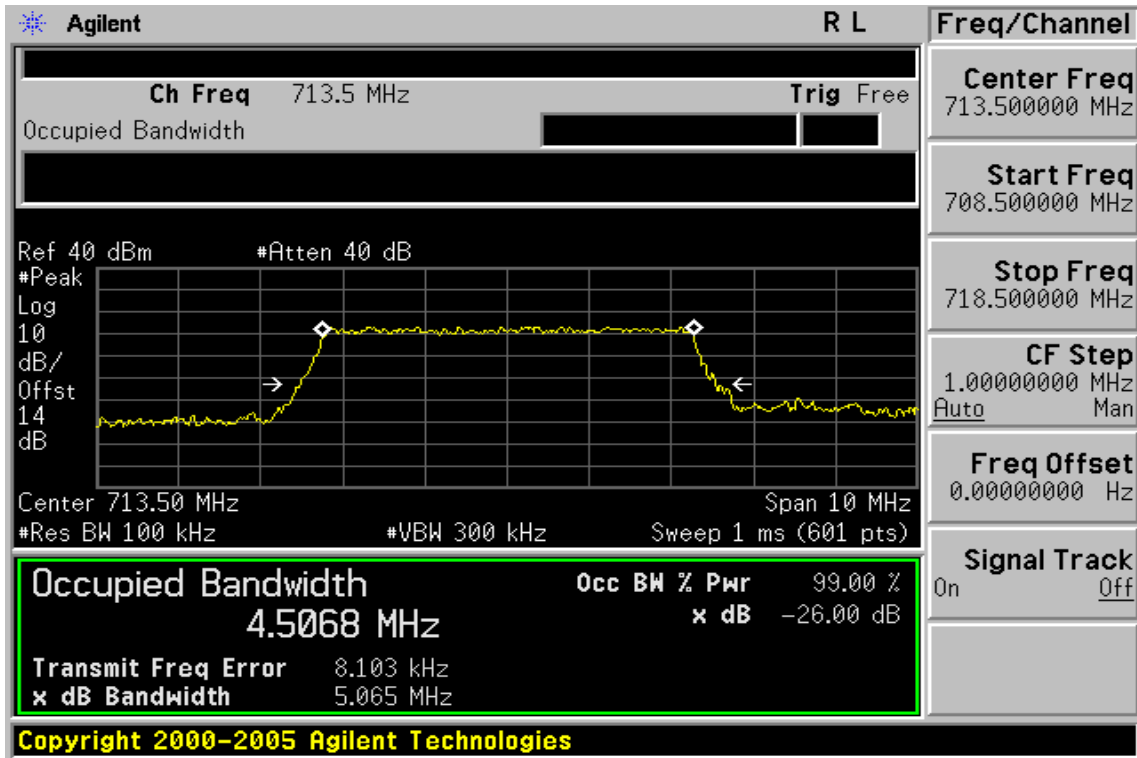
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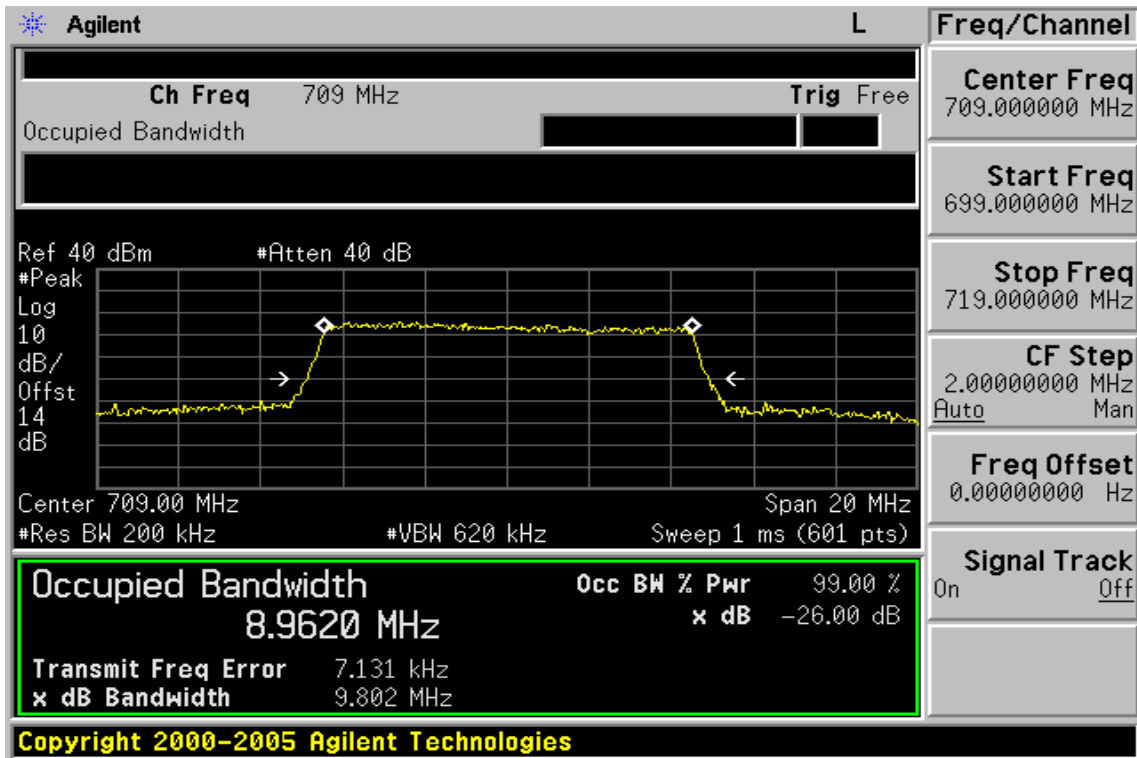
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**5MHz BW LTE-Band 17 16QAM Channel High**



**10MHz BW LTE-Band 17 QPSK Channel Low**



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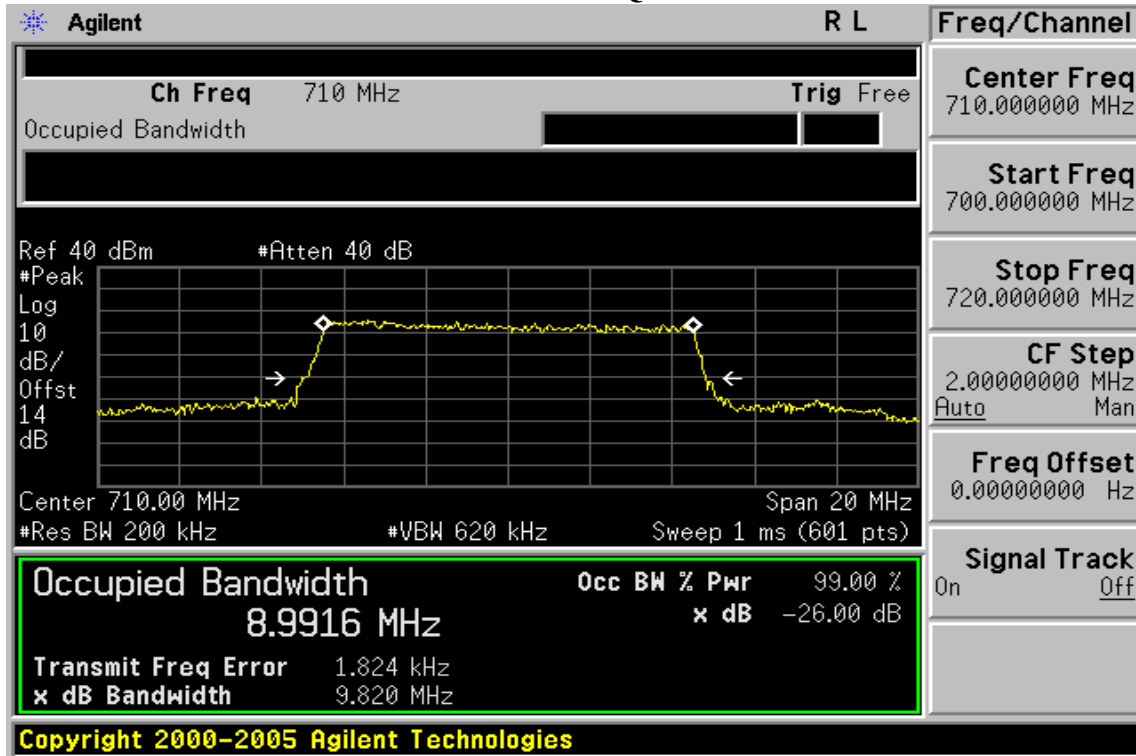
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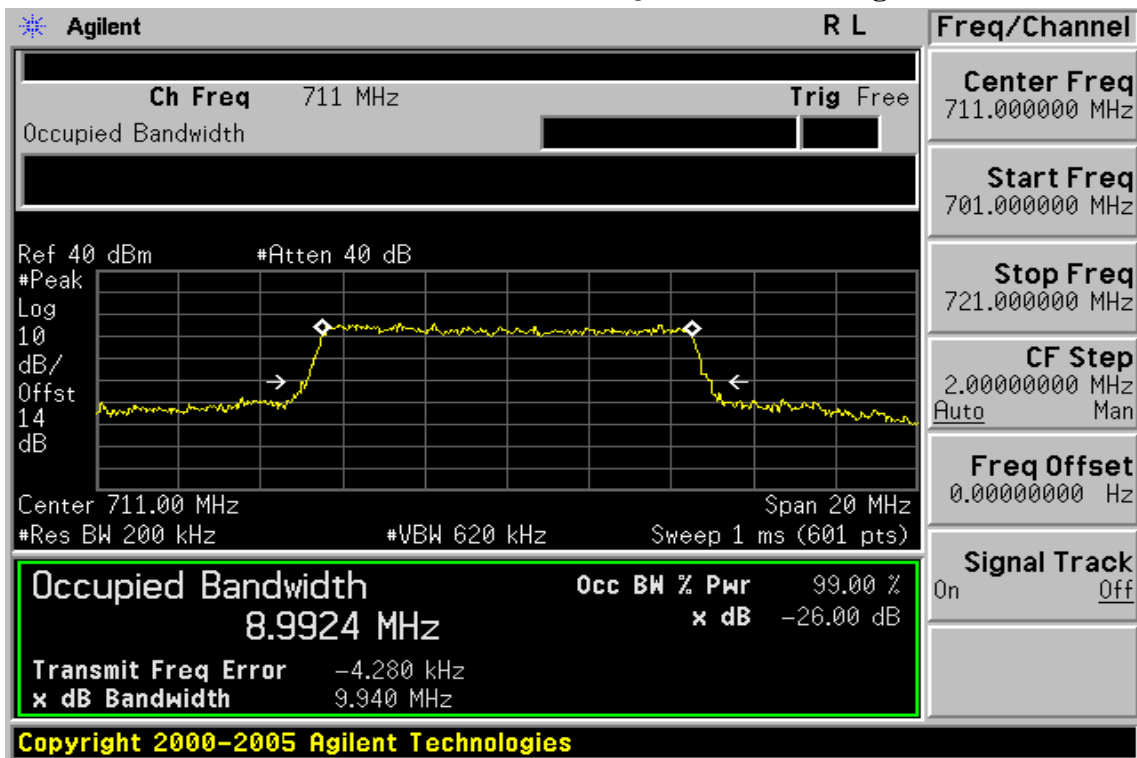
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10MHz BW LTE-Band 17 QPSK Channel Mid



10MHz BW LTE-Band 17 QPSK Channel High



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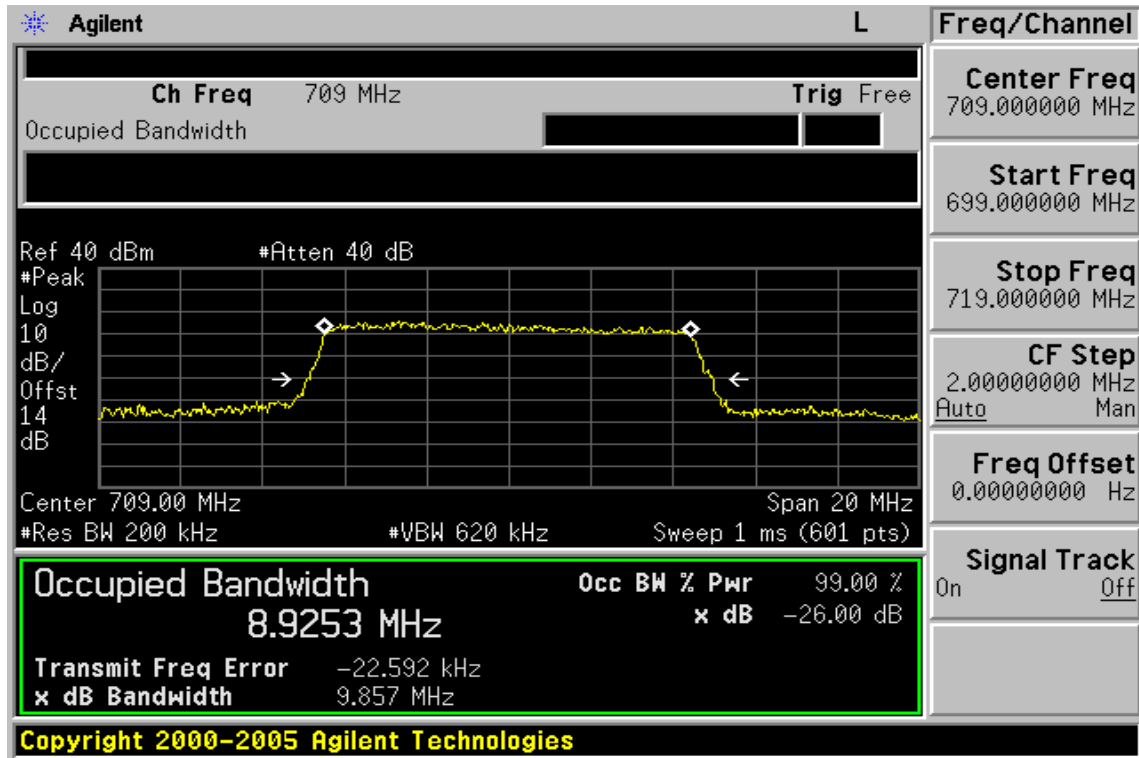
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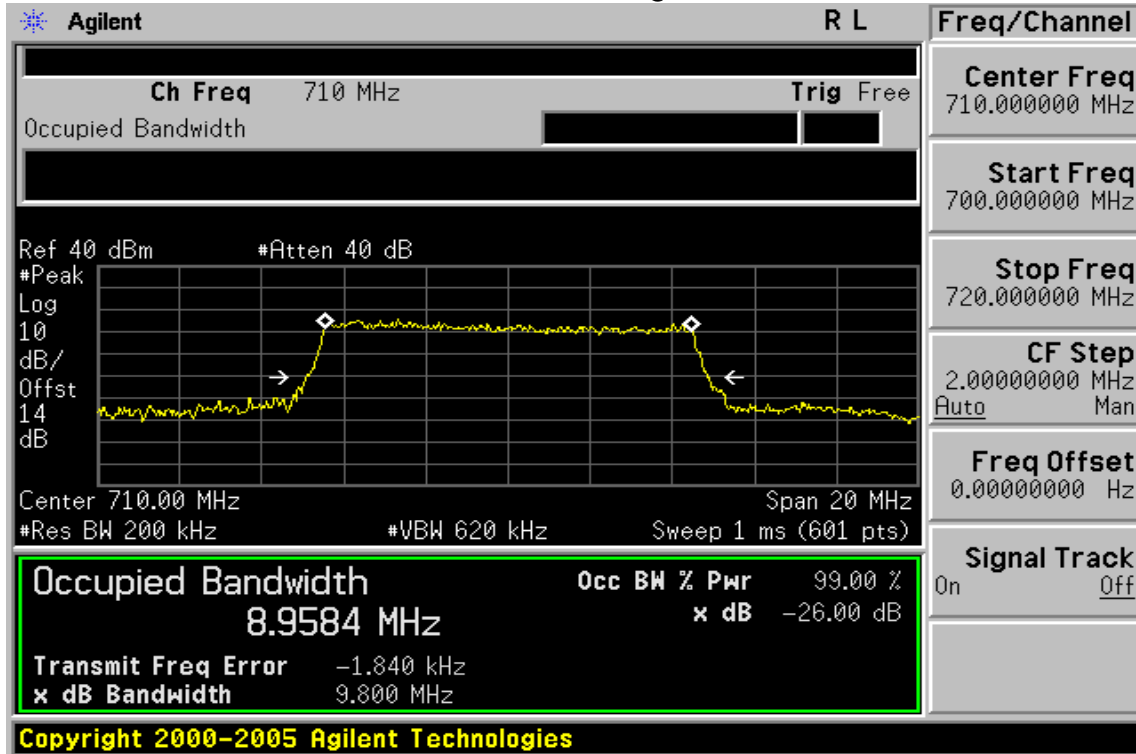
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10MHz BW LTE-Band 17 16QAM Channel Low



10MHz BW LTE-Band 17 16QAM Channel Mid



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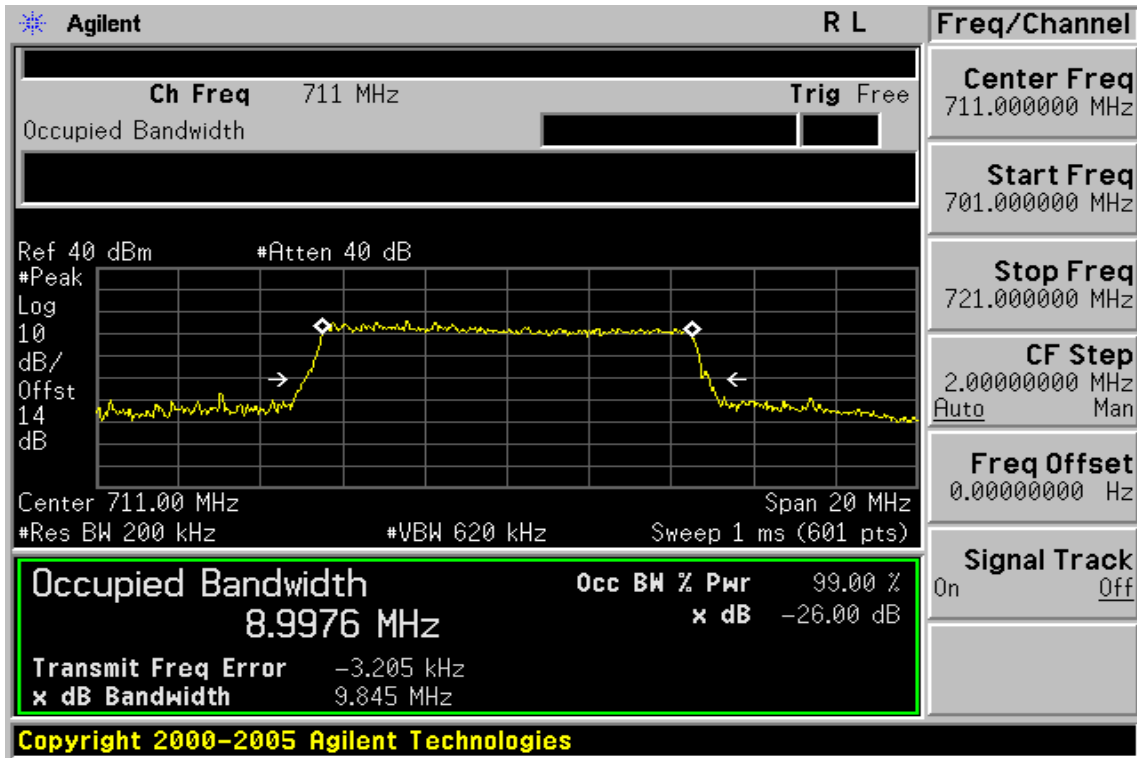
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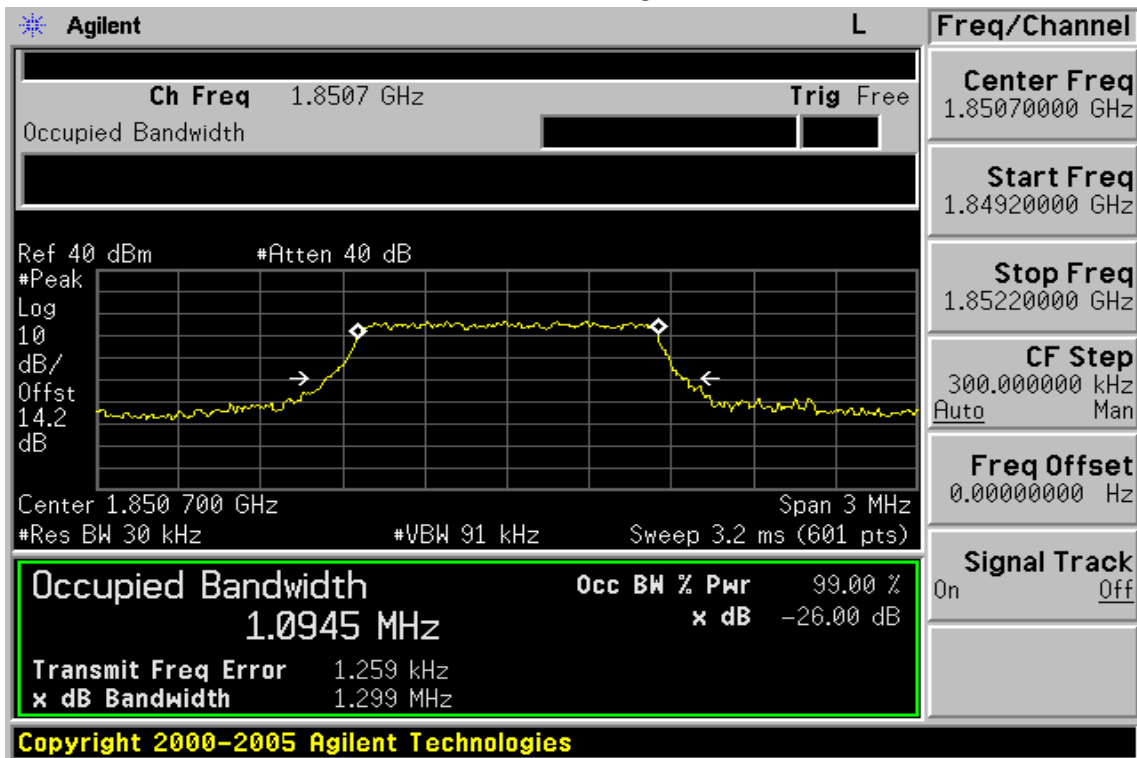
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10MHz BW LTE-Band 17 16QAM Channel High



1.4MHz BW LTE-Band 25 QPSK Channel Low



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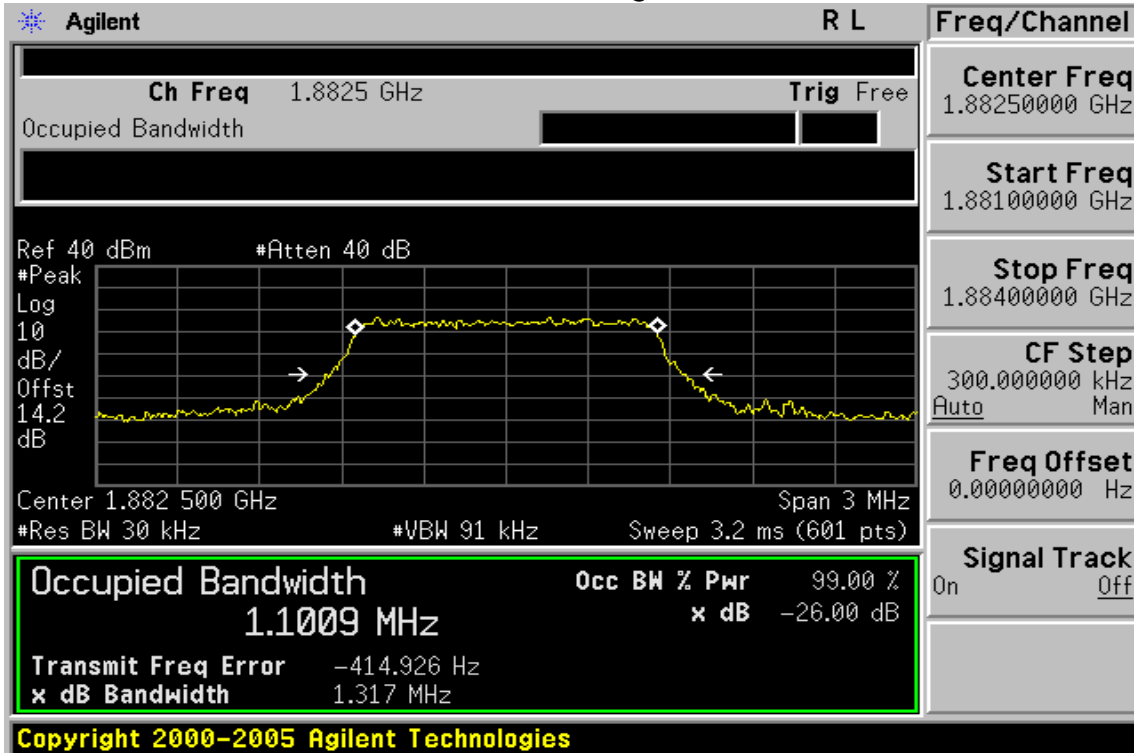
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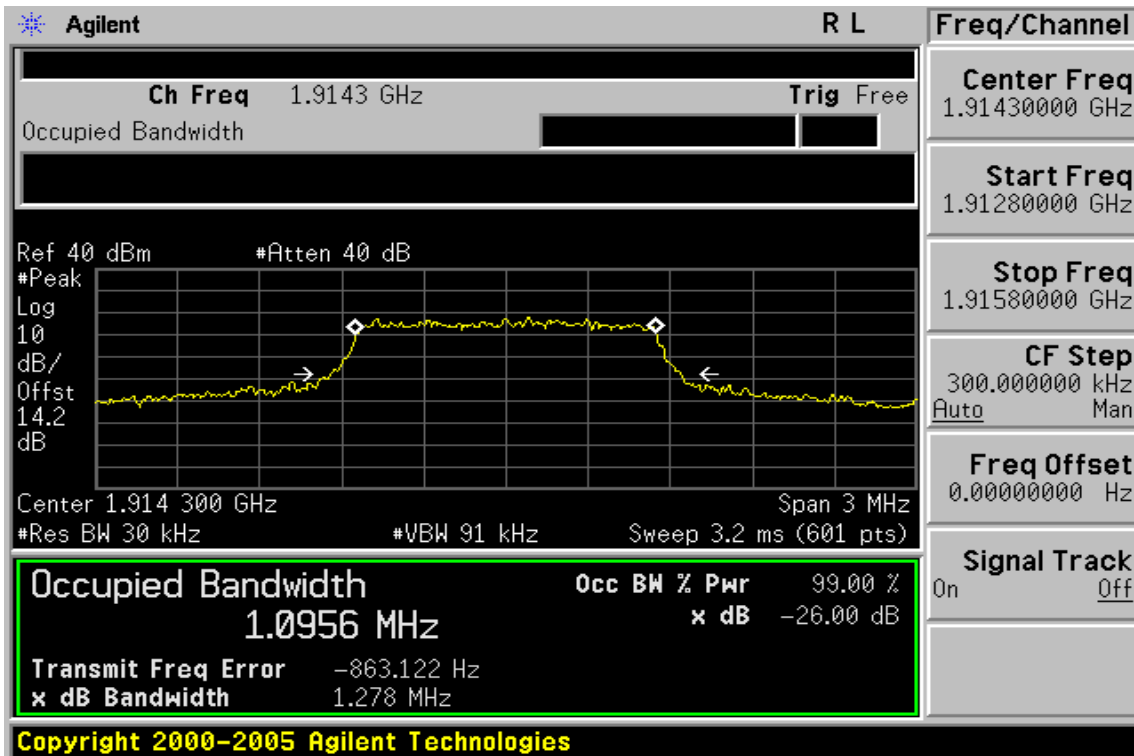
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1.4MHz BW LTE-Band 25 QPSK Channel Mid



1.4MHz BW LTE-Band 25 QPSK Channel High



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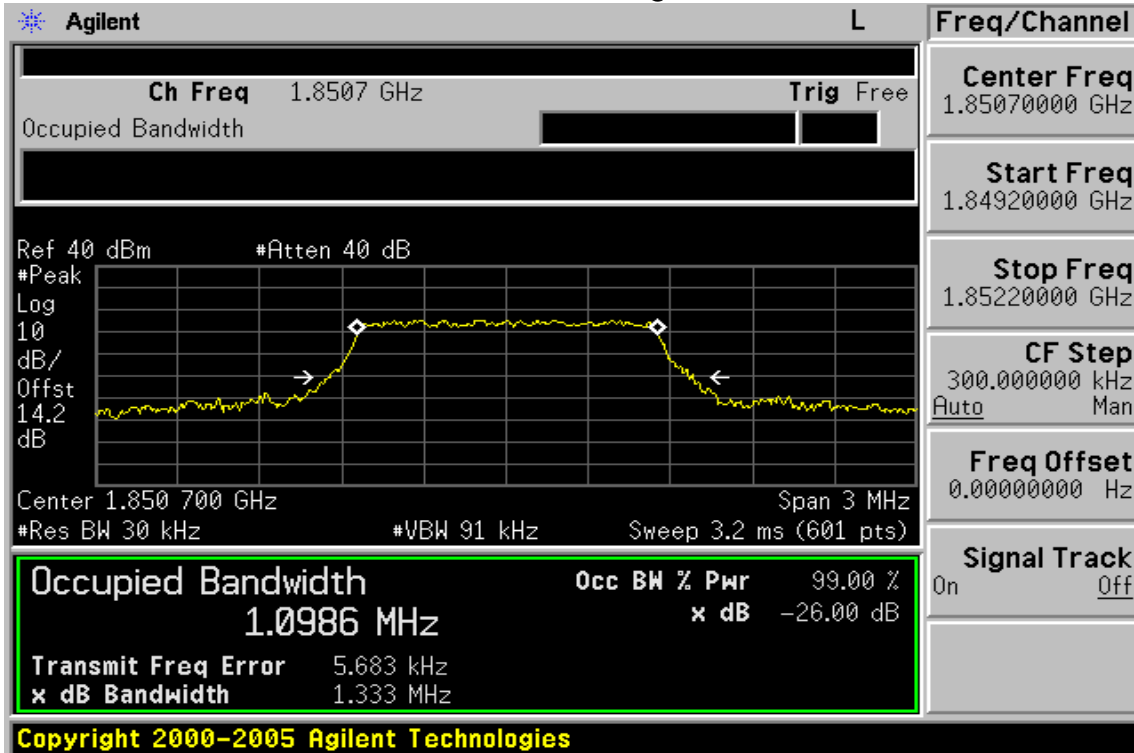
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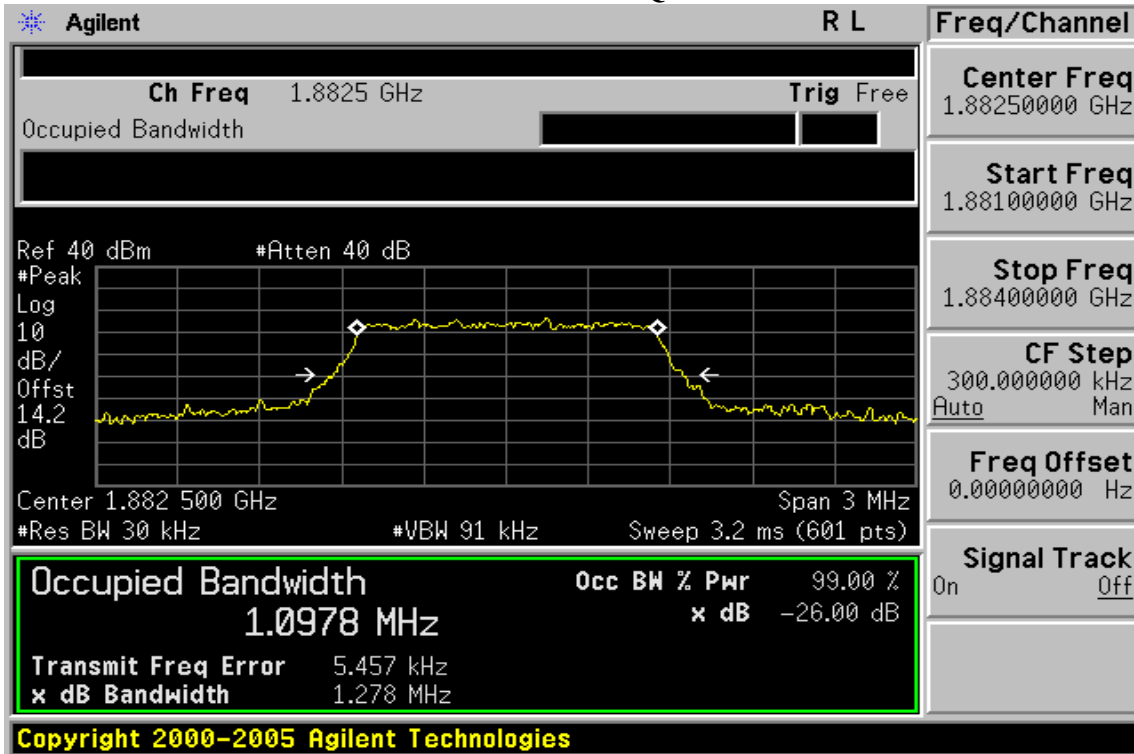
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1.4MHz BW LTE-Band 25 16QAM Channel Low



1.4MHz BW LTE-Band 25 16QAM Channel Mid



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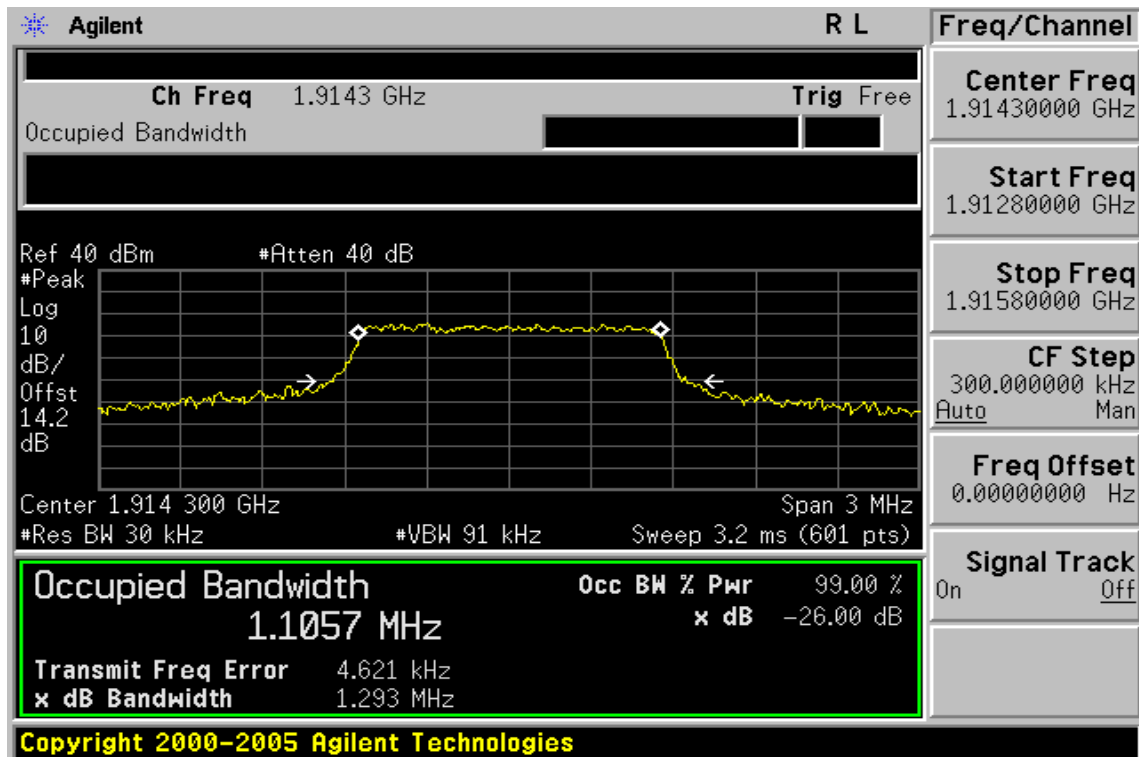
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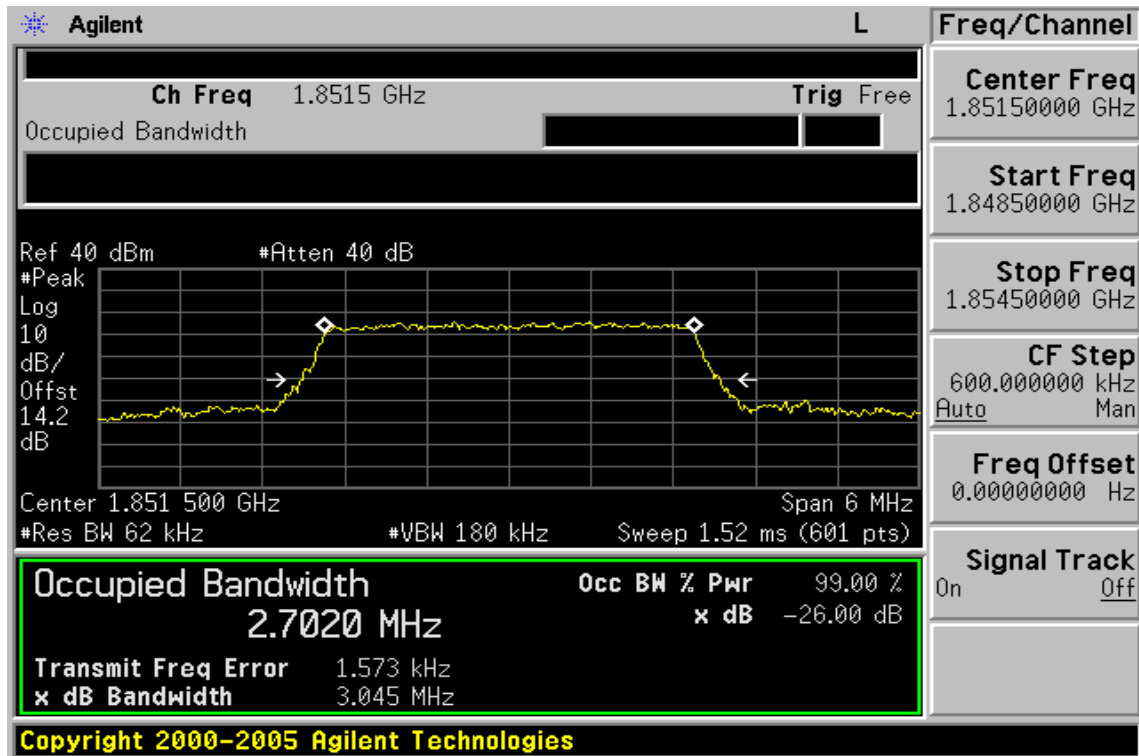
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**1.4MHz BW LTE-Band 25 16QAM Channel High**



**3MHz BW LTE-Band 25 QPSK Channel Low**



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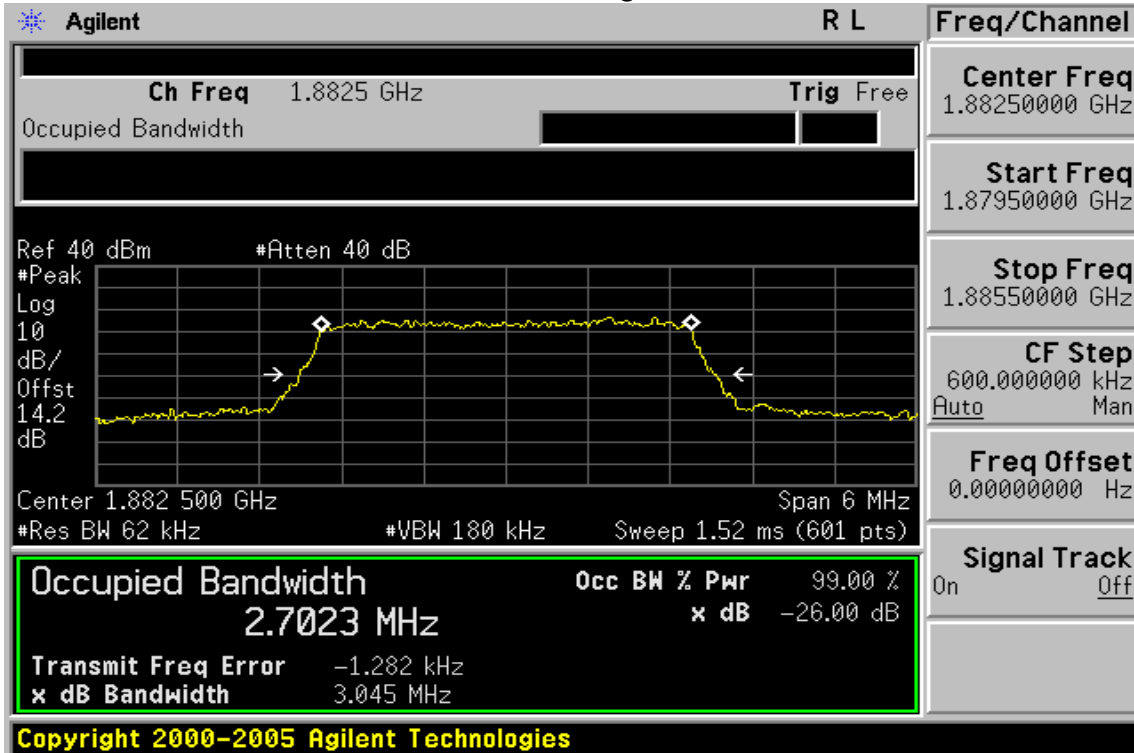
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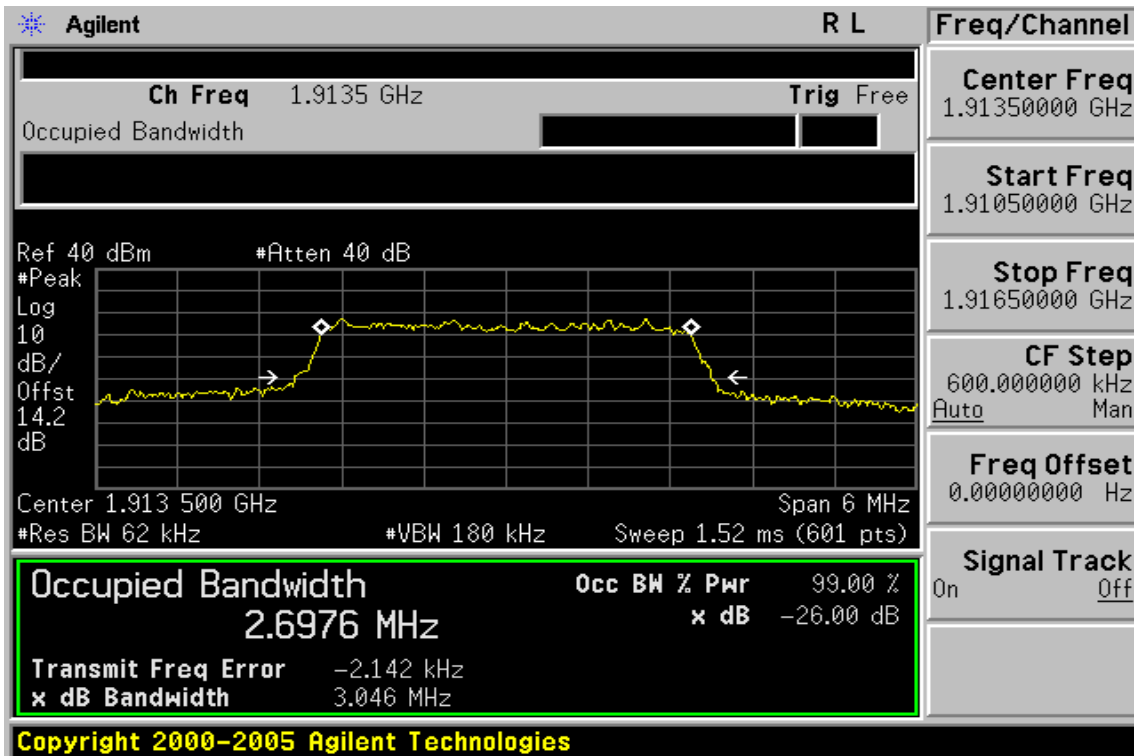
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3MHz BW LTE-Band 25 QPSK Channel Mid



3MHz BW LTE-Band 25 QPSK Channel High



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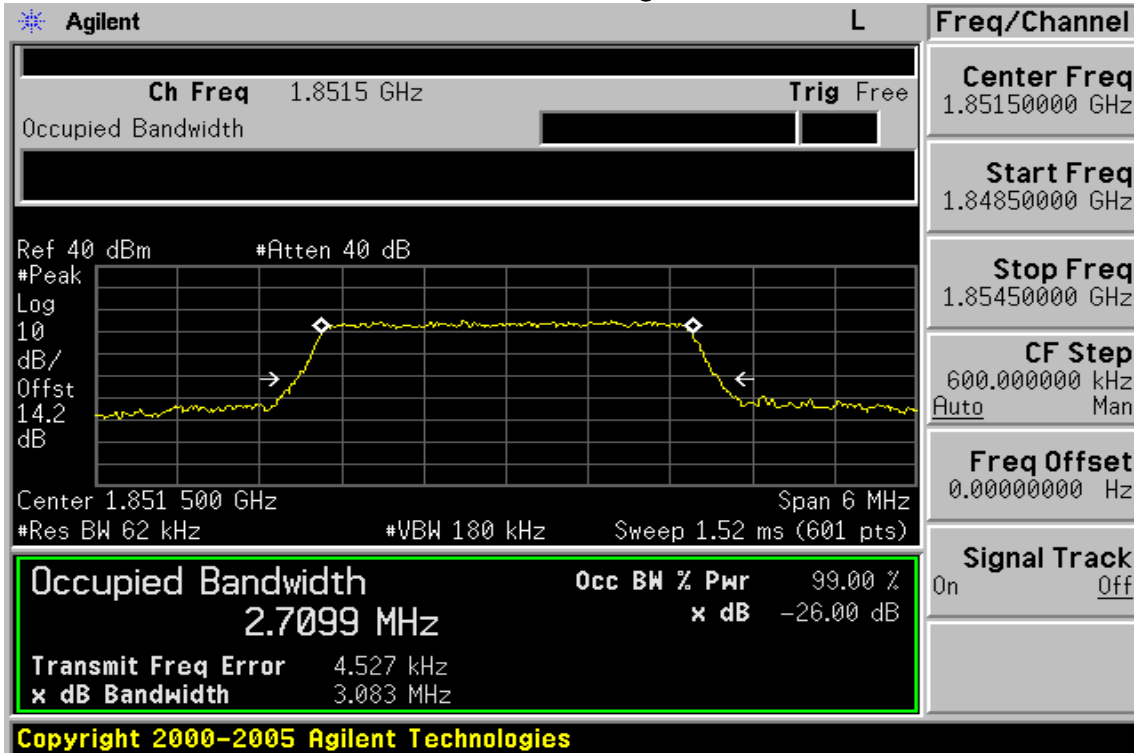
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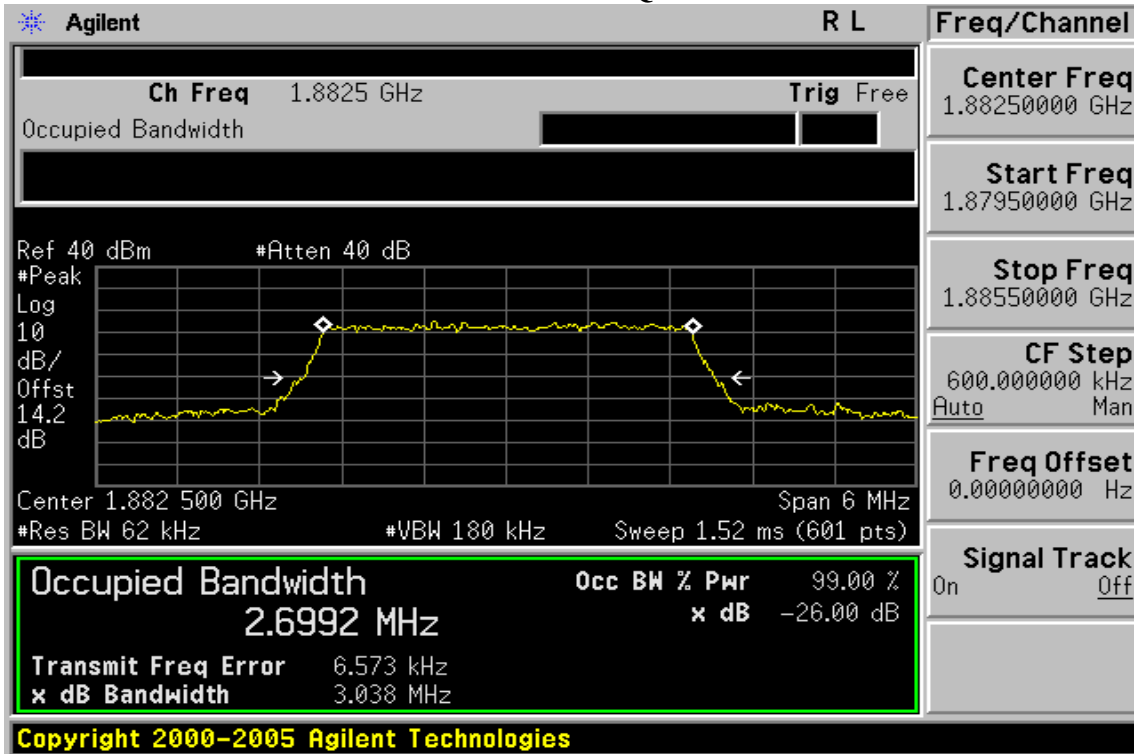
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3MHz BW LTE-Band 25 16QAM Channel Low



3MHz BW LTE-Band 25 16QAM Channel Mid



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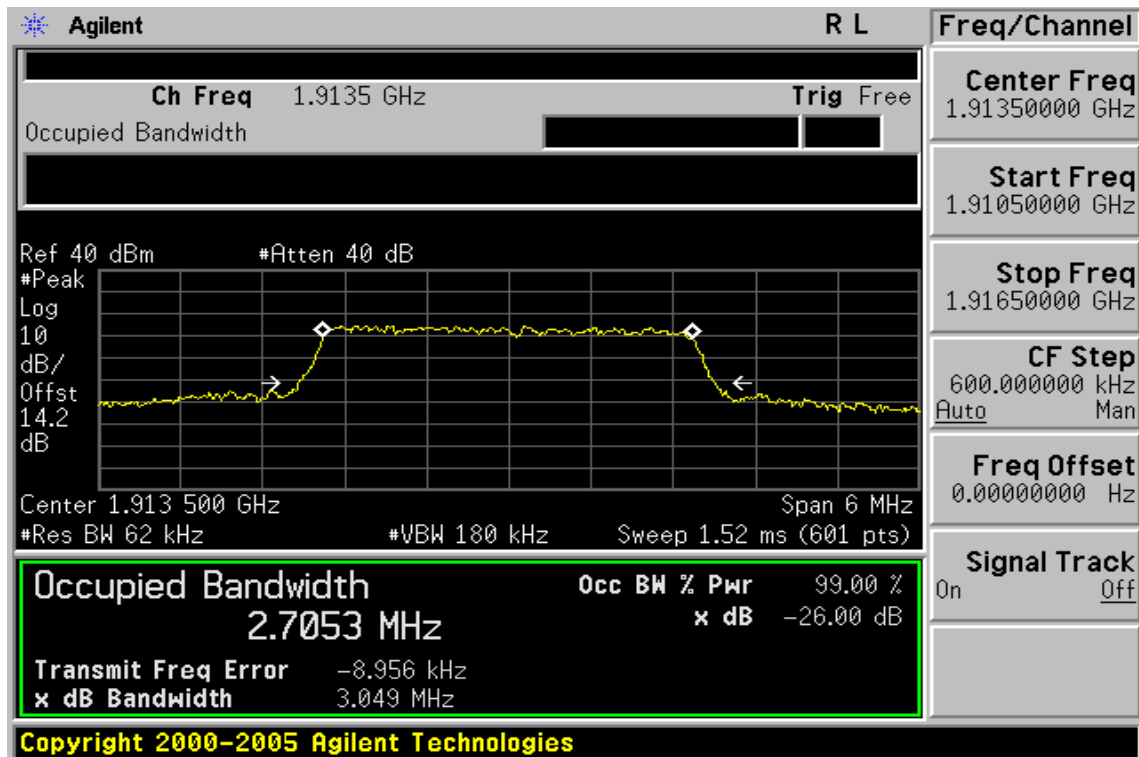
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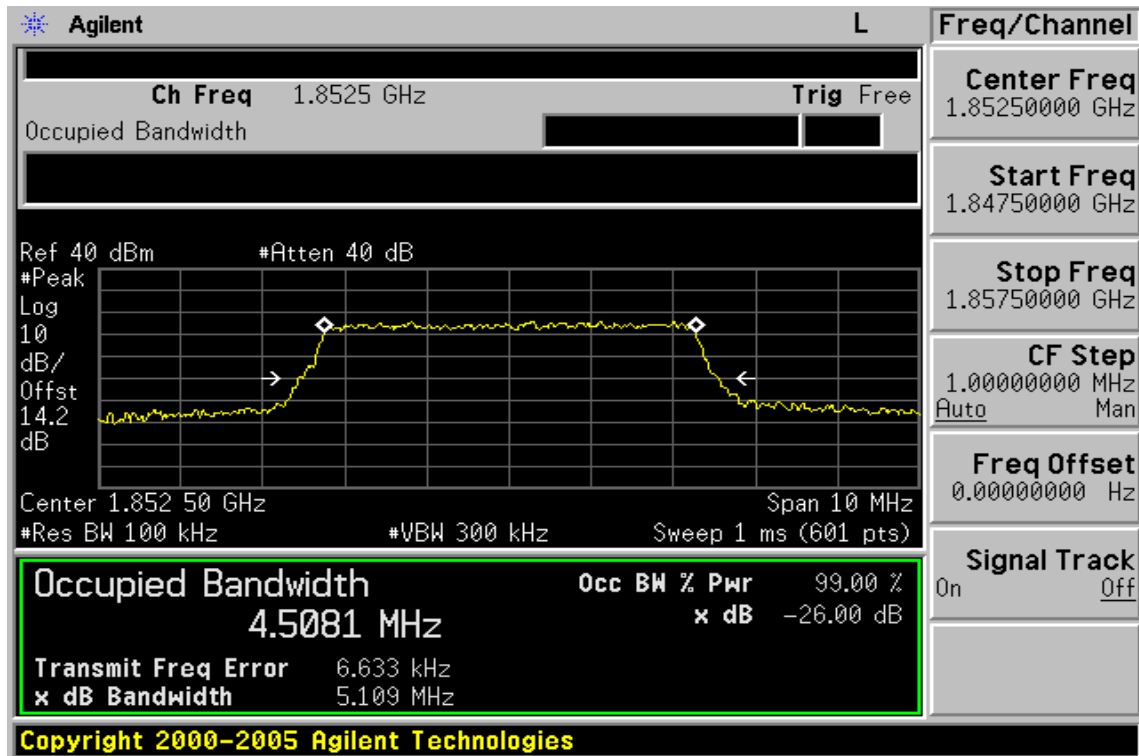
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**3MHz BW LTE-Band 25 16QAM Channel High**



**5MHz BW LTE-Band 25 QPSK Channel Low**



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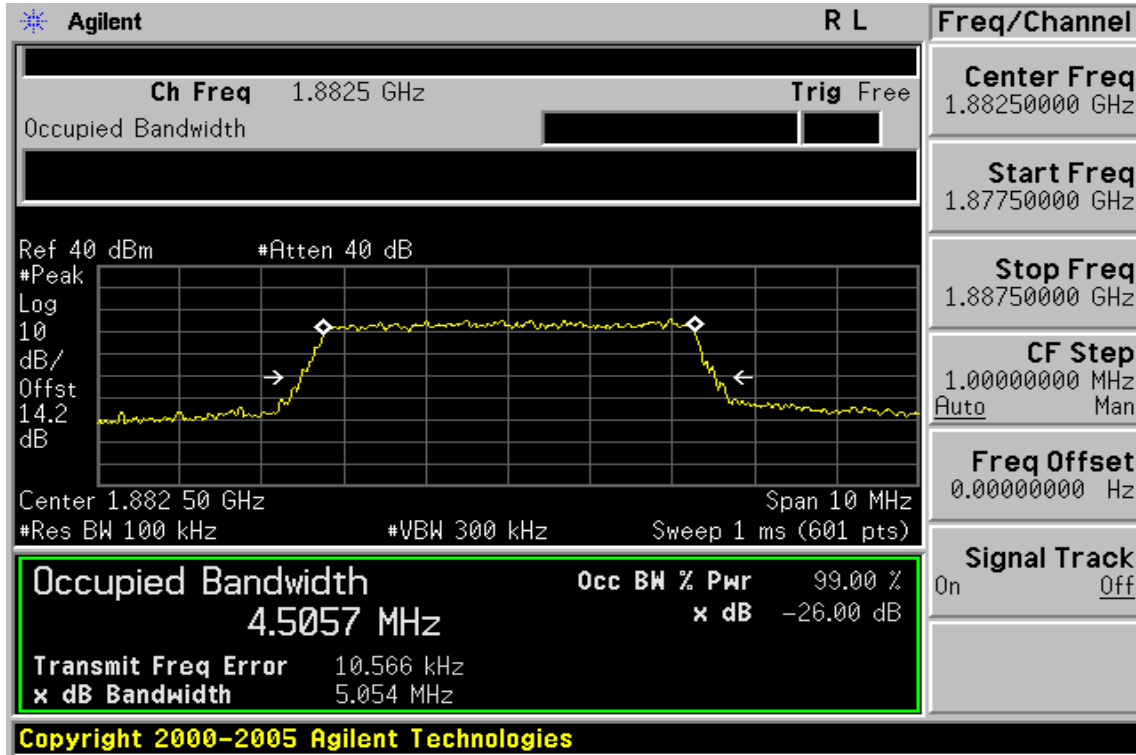
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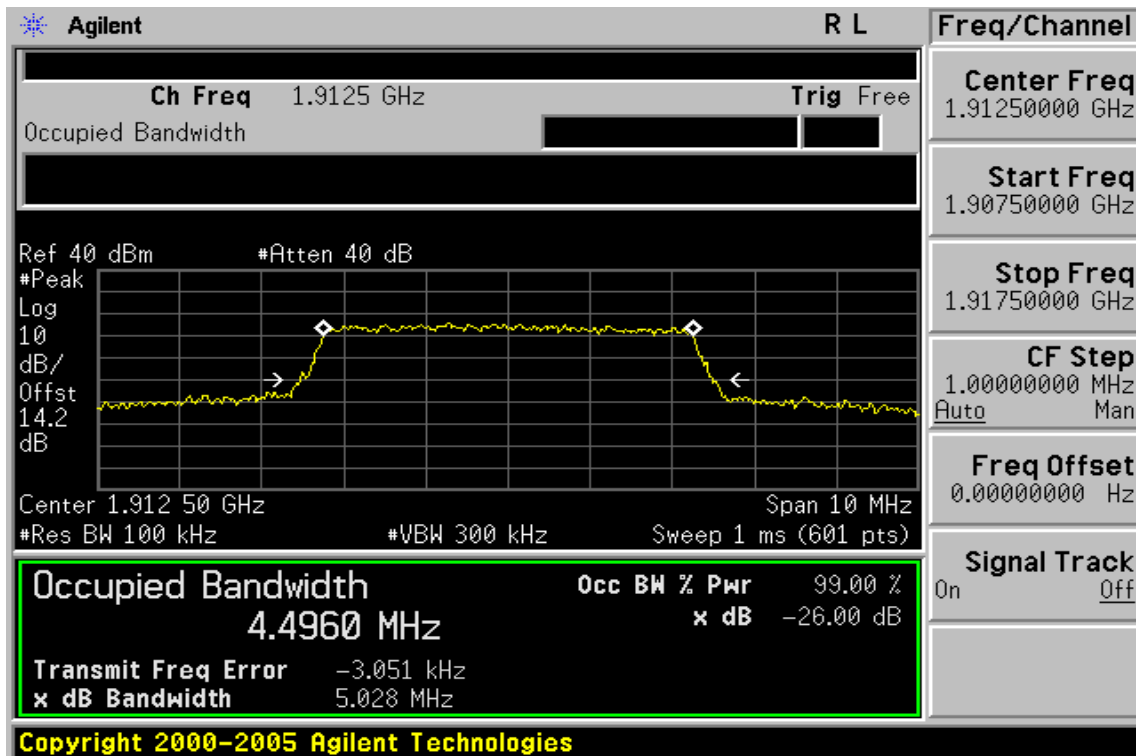
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5MHz BW LTE-Band 25 QPSK Channel Mid



5MHz BW LTE-Band 25 QPSK Channel High



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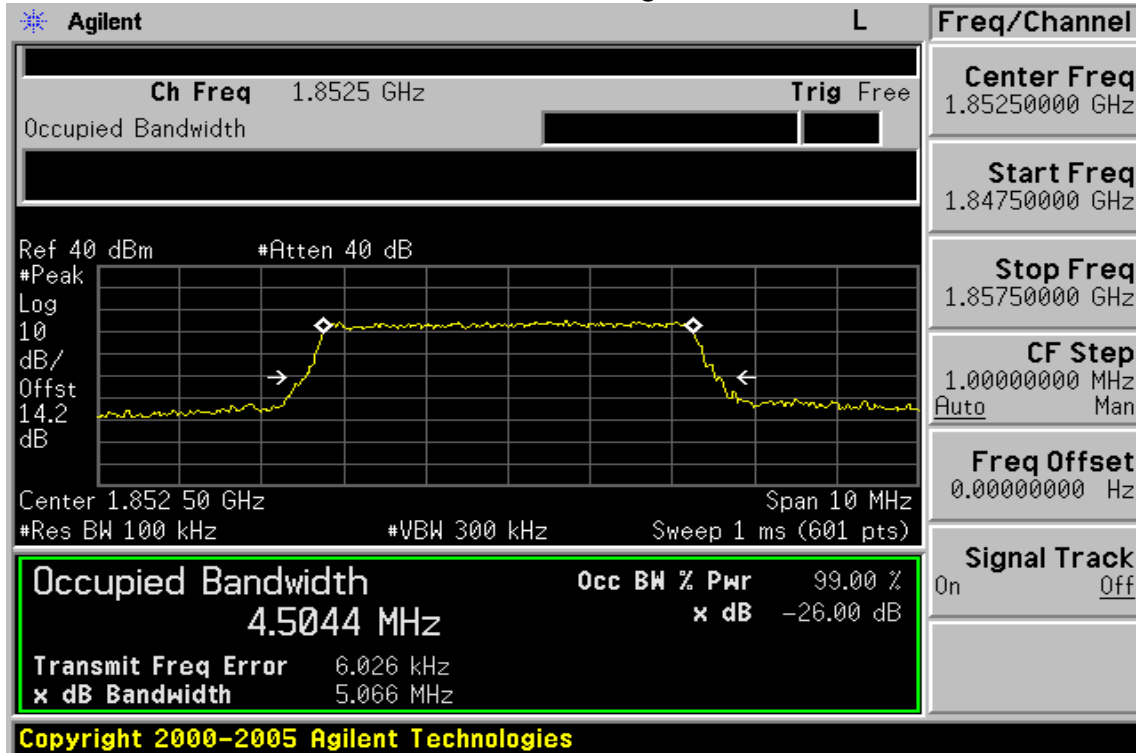
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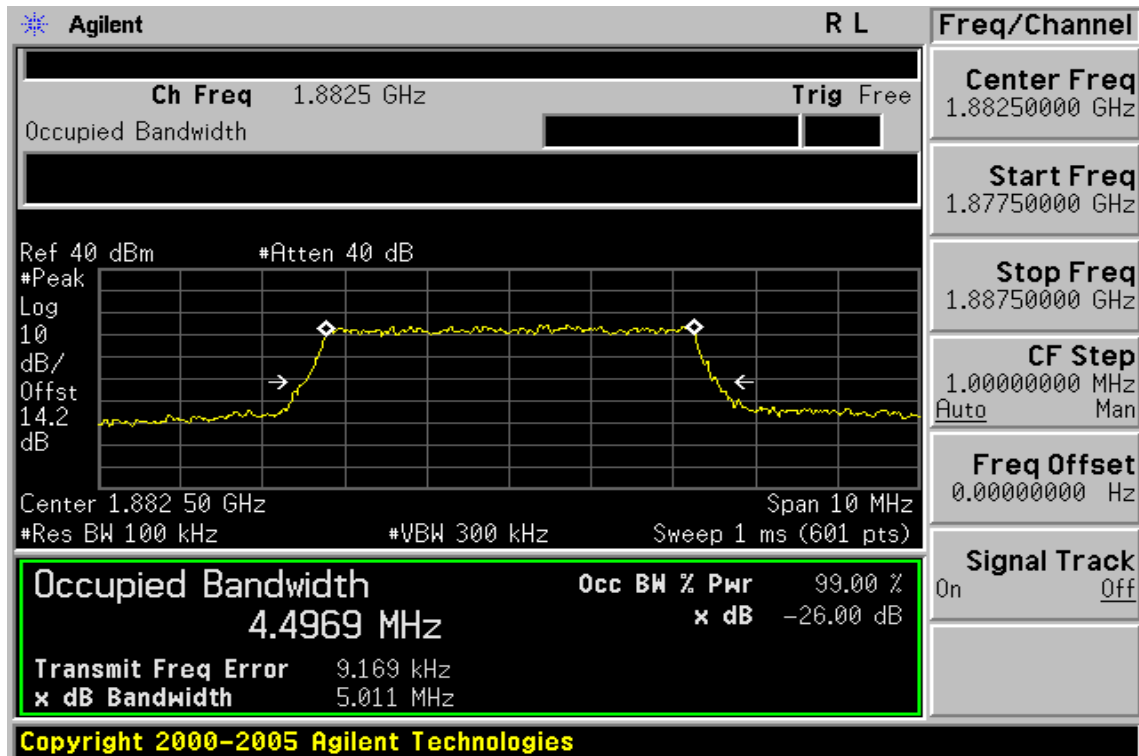
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5MHz BW LTE-Band 25 16QAM Channel Low



5MHz BW LTE-Band 25 16QAM Channel Mid



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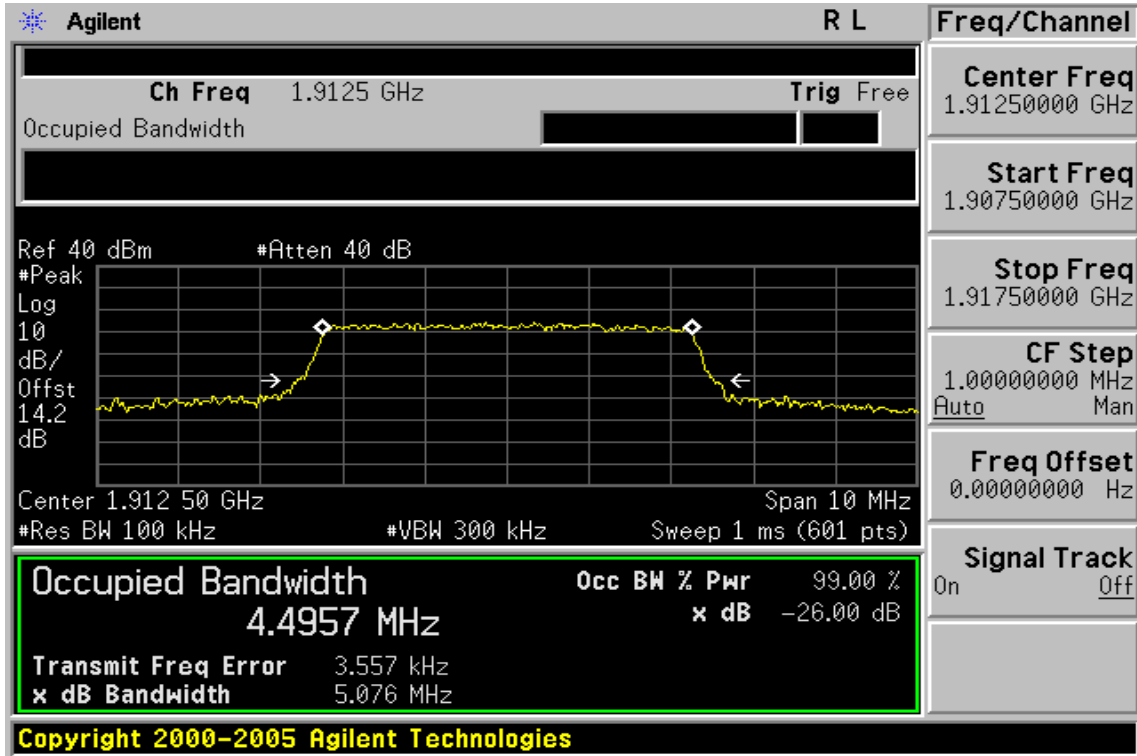
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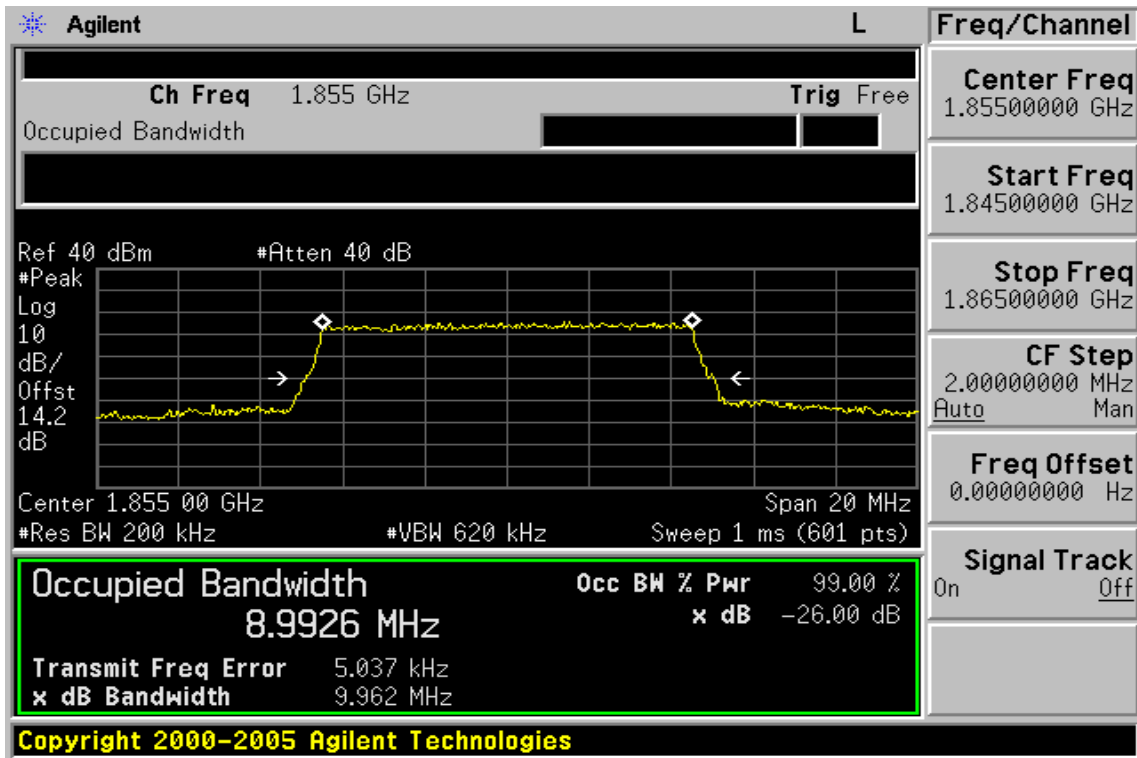
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**5MHz BW LTE-Band 25 16QAM Channel High**



**10MHz BW LTE-Band 25 QPSK Channel Low**



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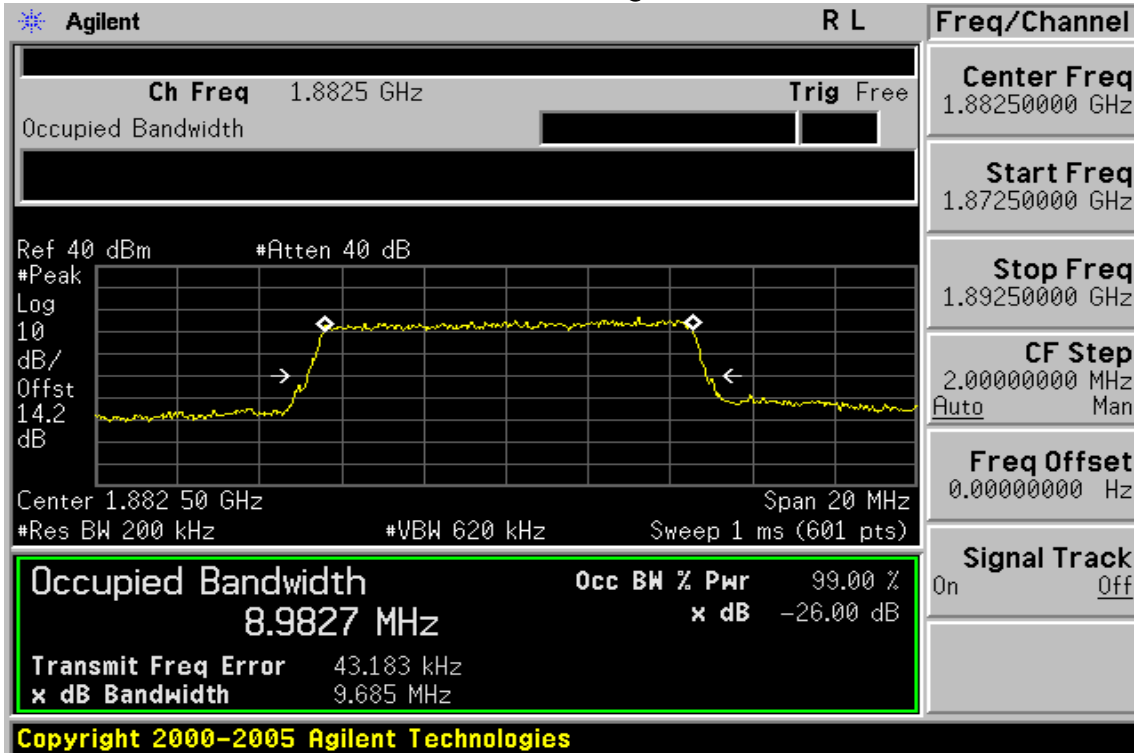
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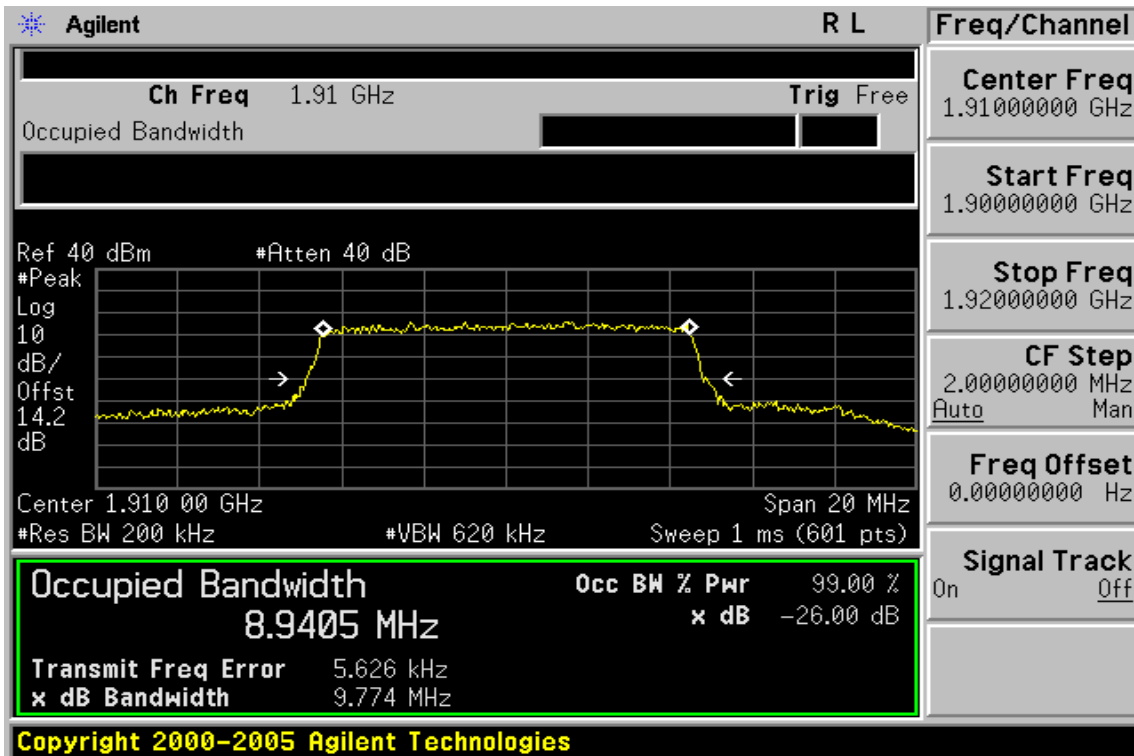
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10MHz BW LTE-Band 25 QPSK Channel Mid



10MHz BW LTE-Band 25 QPSK Channel High



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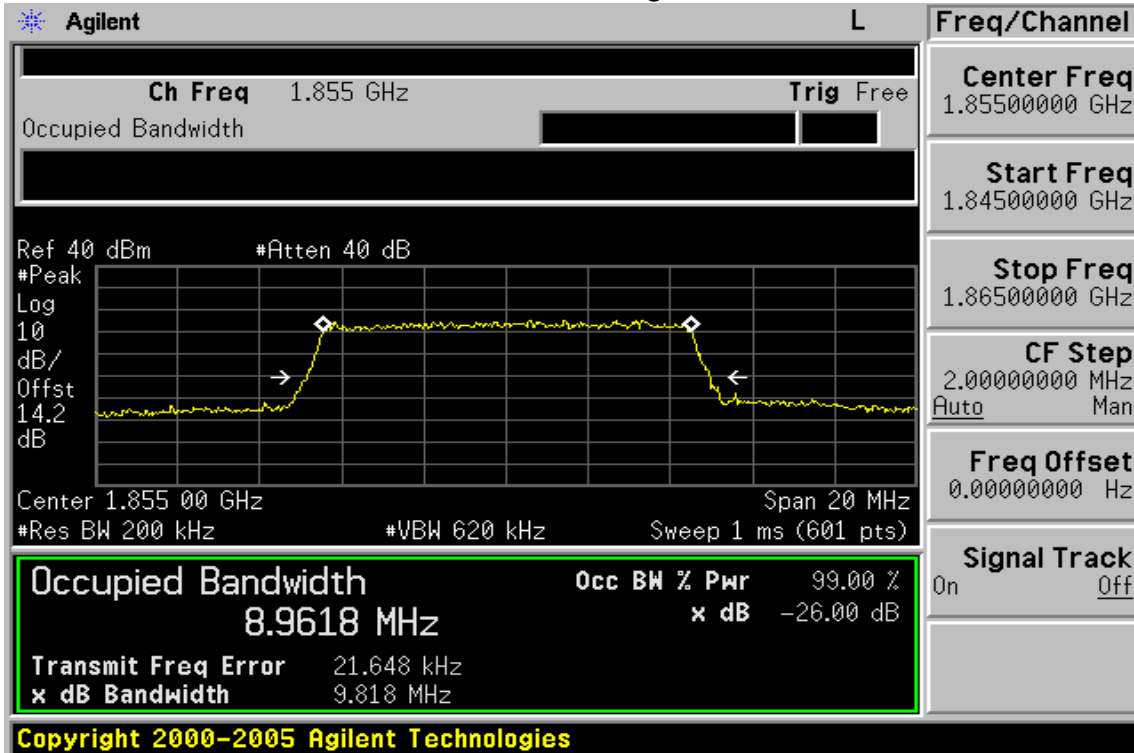
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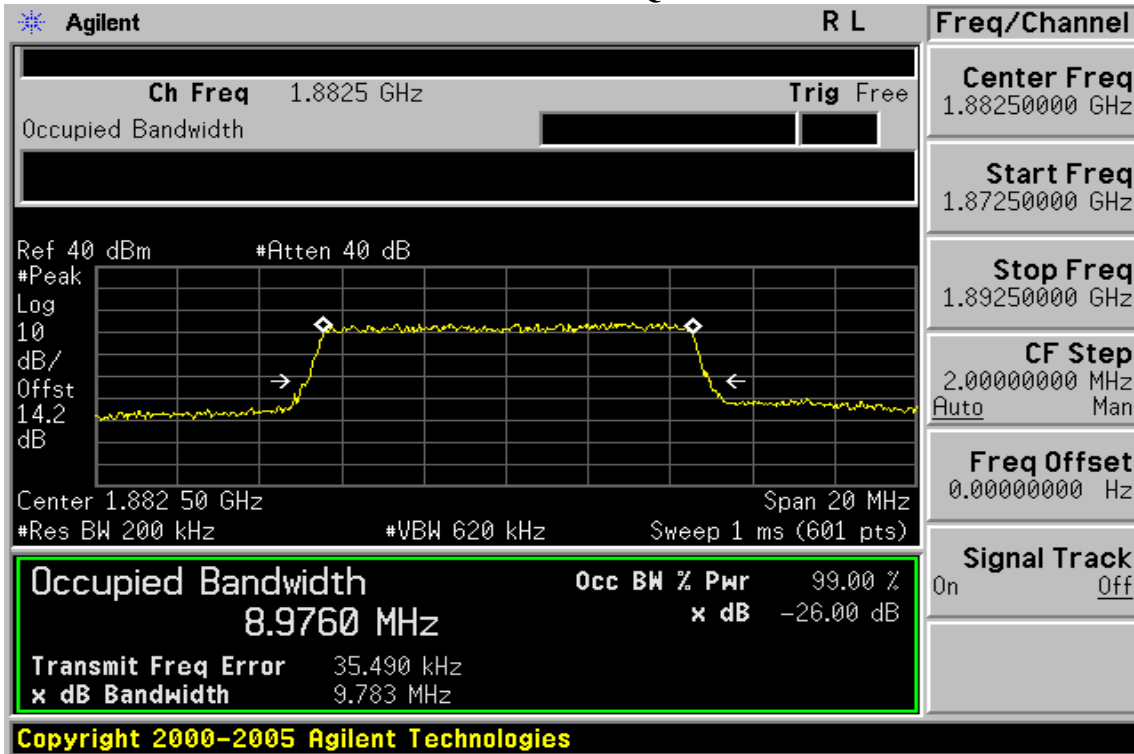
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10MHz BW LTE-Band 25 16QAM Channel Low



10MHz BW LTE-Band 25 16QAM Channel Mid



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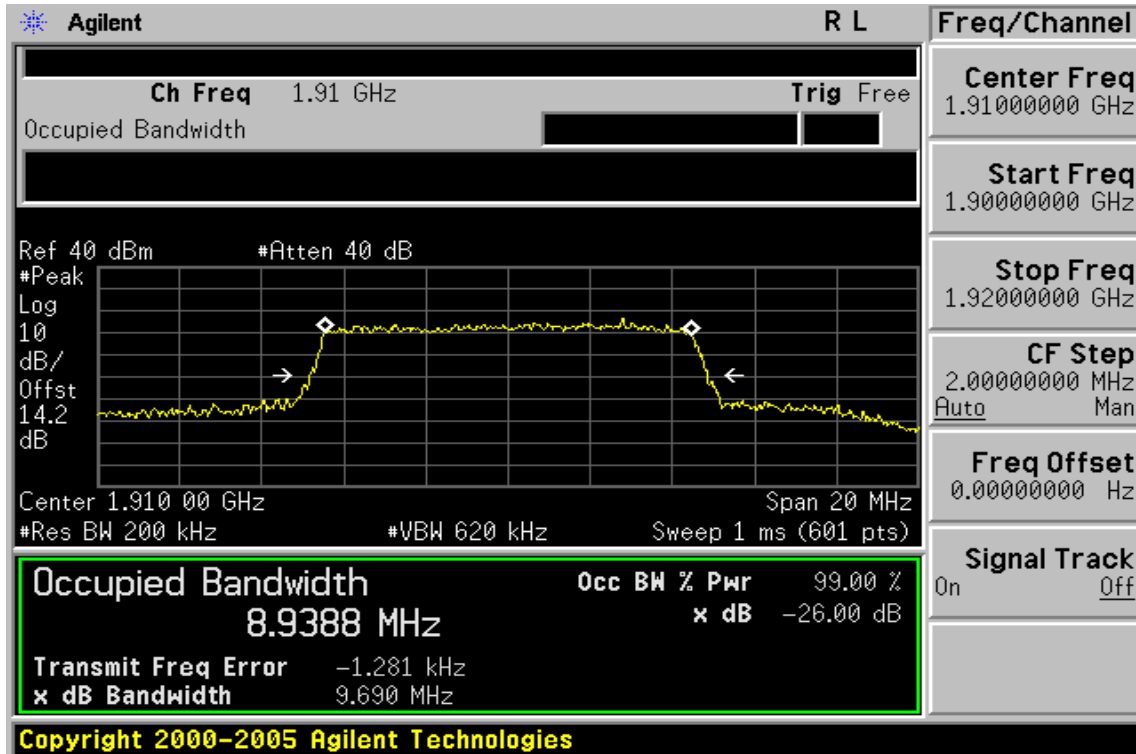
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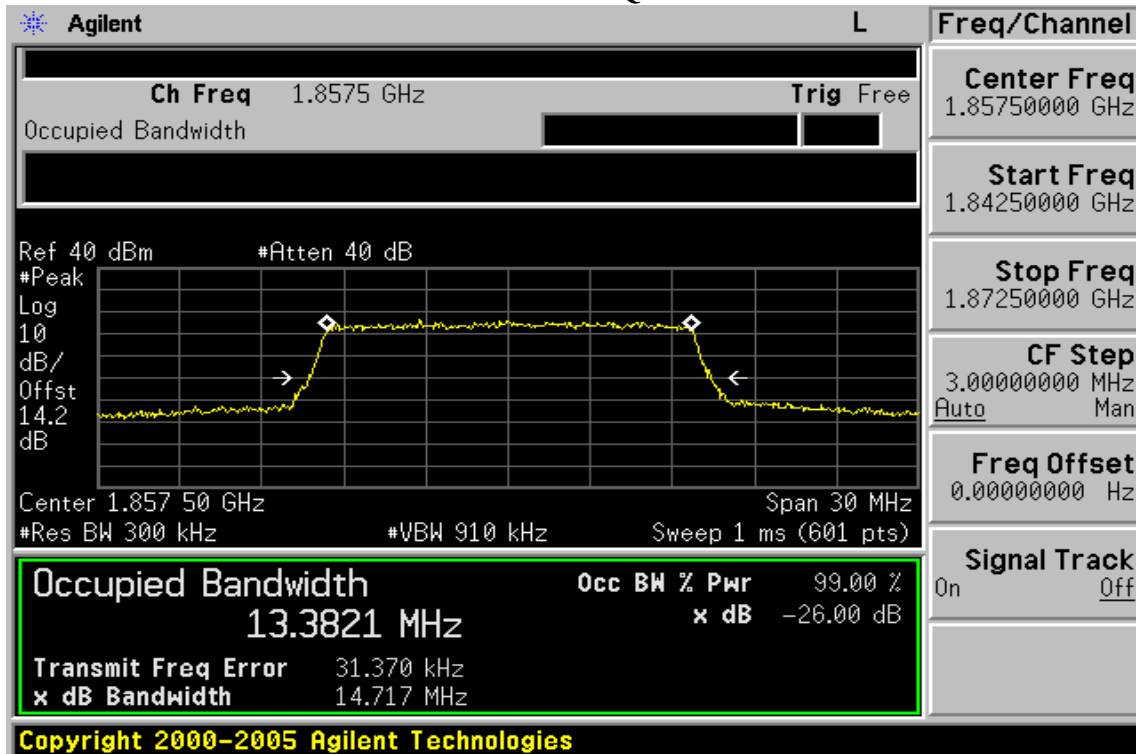
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**10MHz BW LTE-Band 25 16QAM Channel High**



**15MHz BW LTE-Band 25 QPSK Channel Low**



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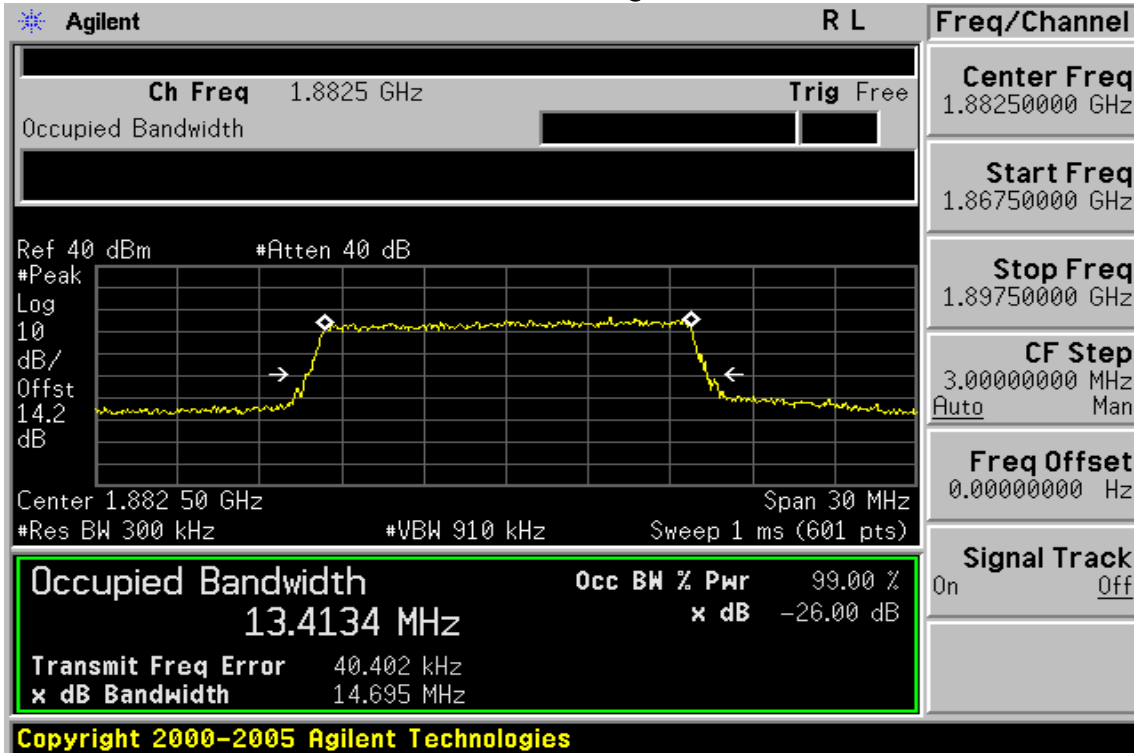
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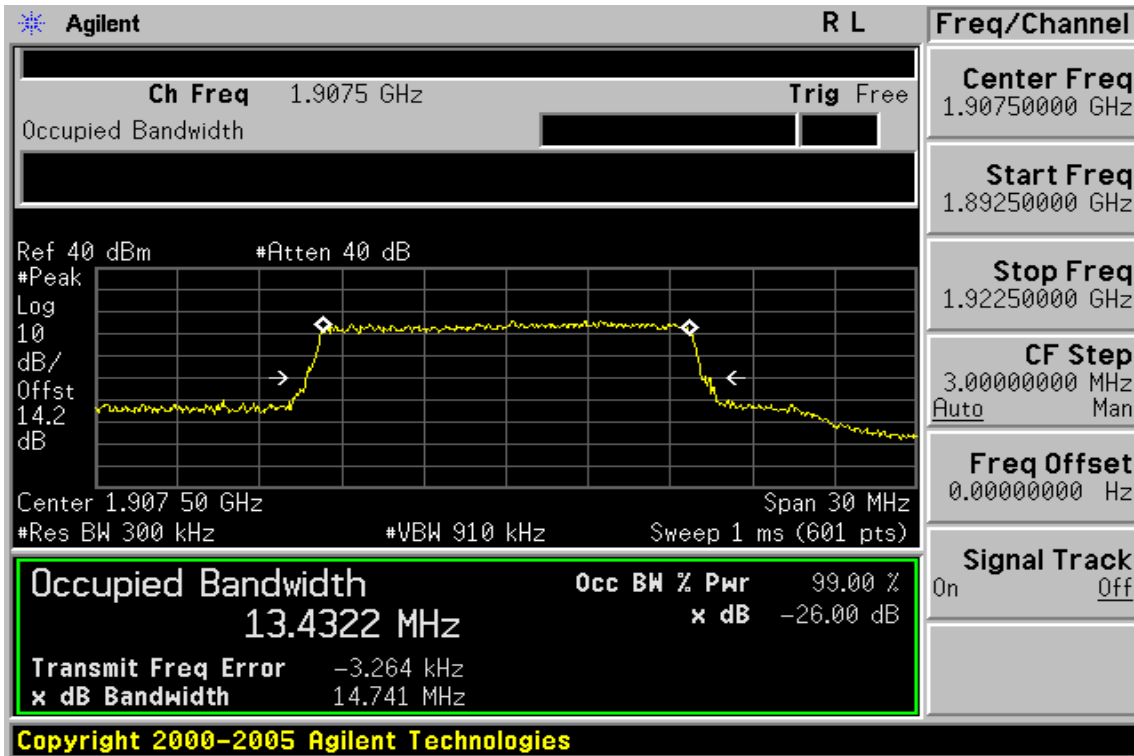
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15MHz BW LTE-Band 25 QPSK Channel Mid



15MHz BW LTE-Band 25 QPSK Channel High



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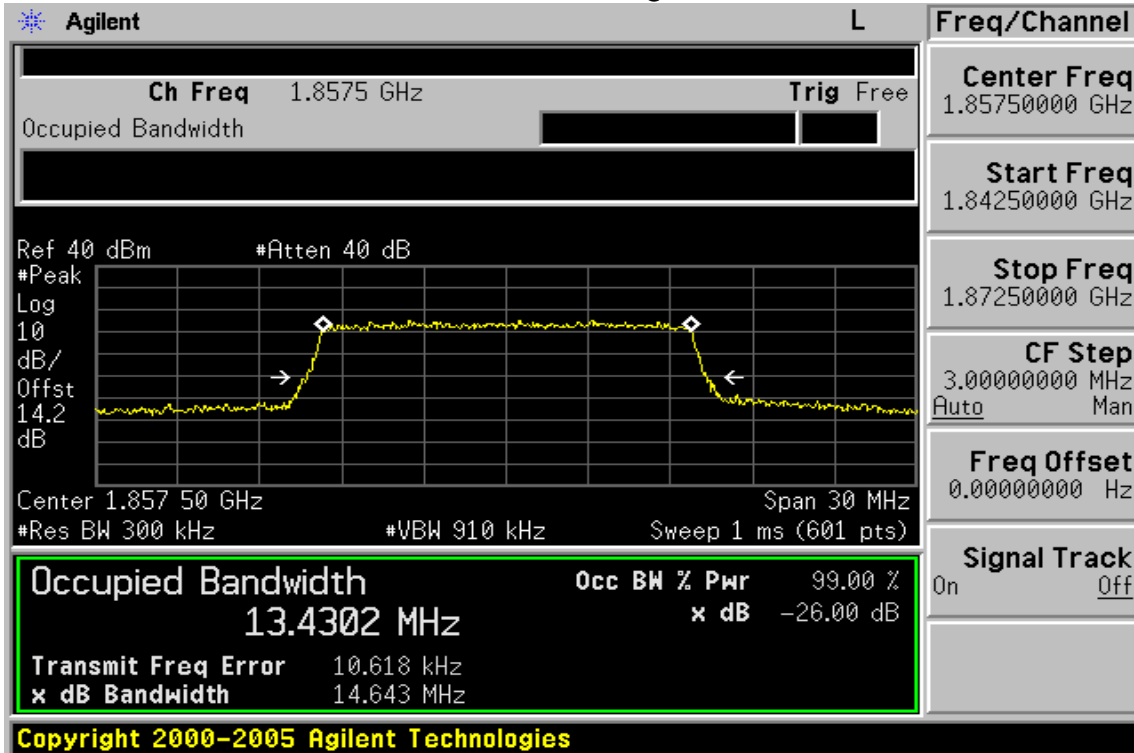
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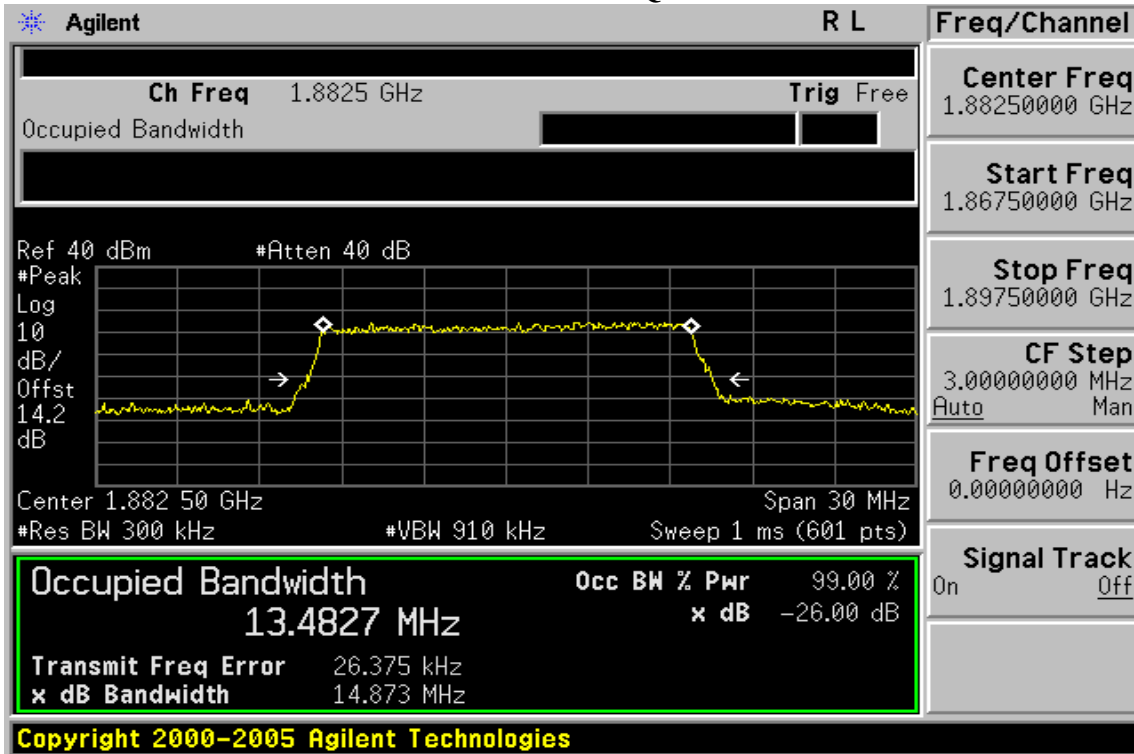
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15MHz BW LTE-Band 25 16QAM Channel Low



15MHz BW LTE-Band 25 16QAM Channel Mid



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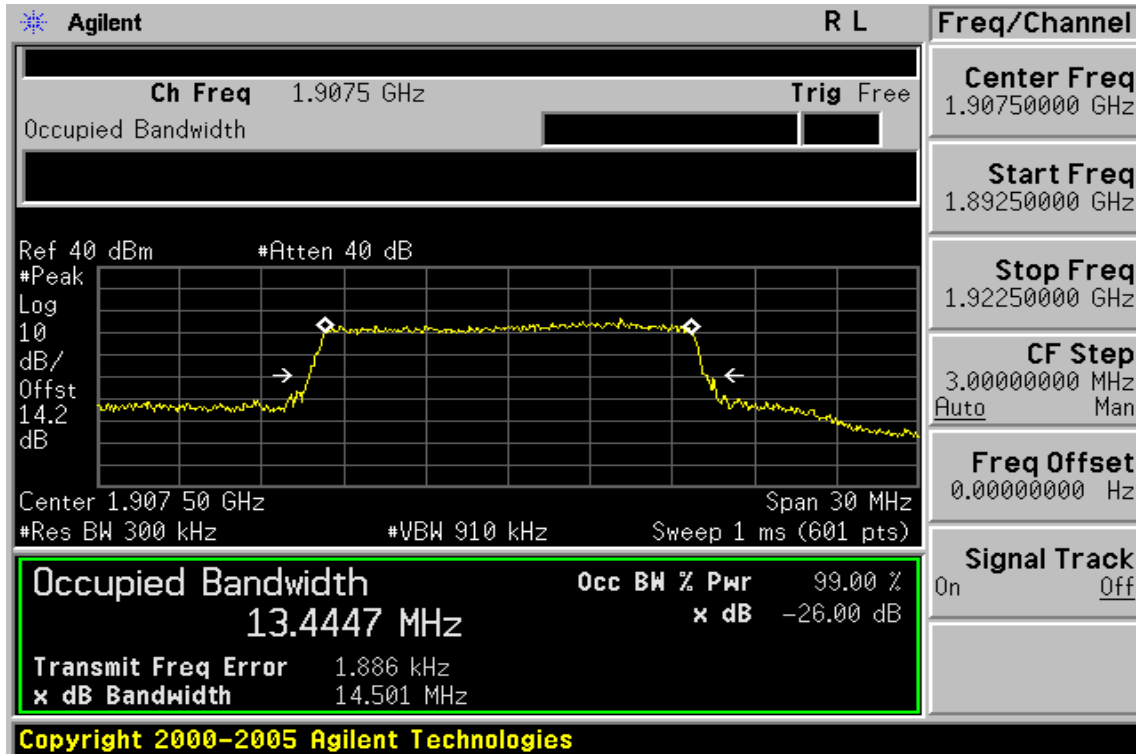
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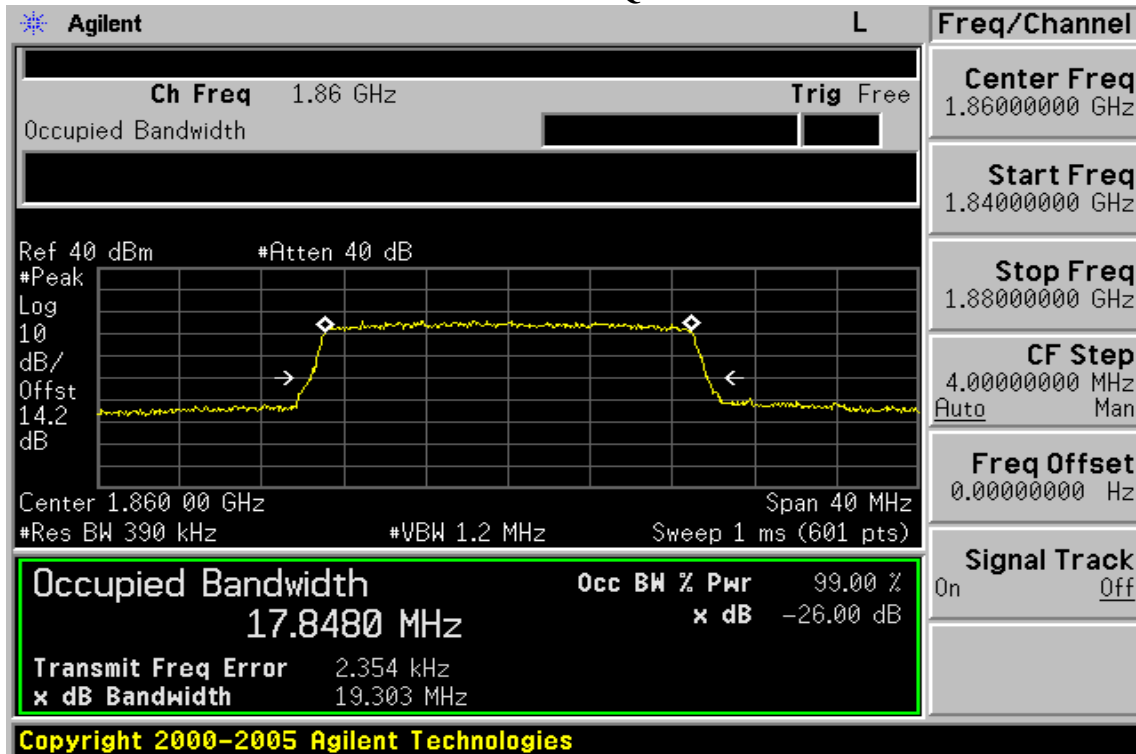
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**15MHz BW LTE-Band 25 16QAM Channel High**



**20MHz BW LTE-Band 25 QPSK Channel Low**



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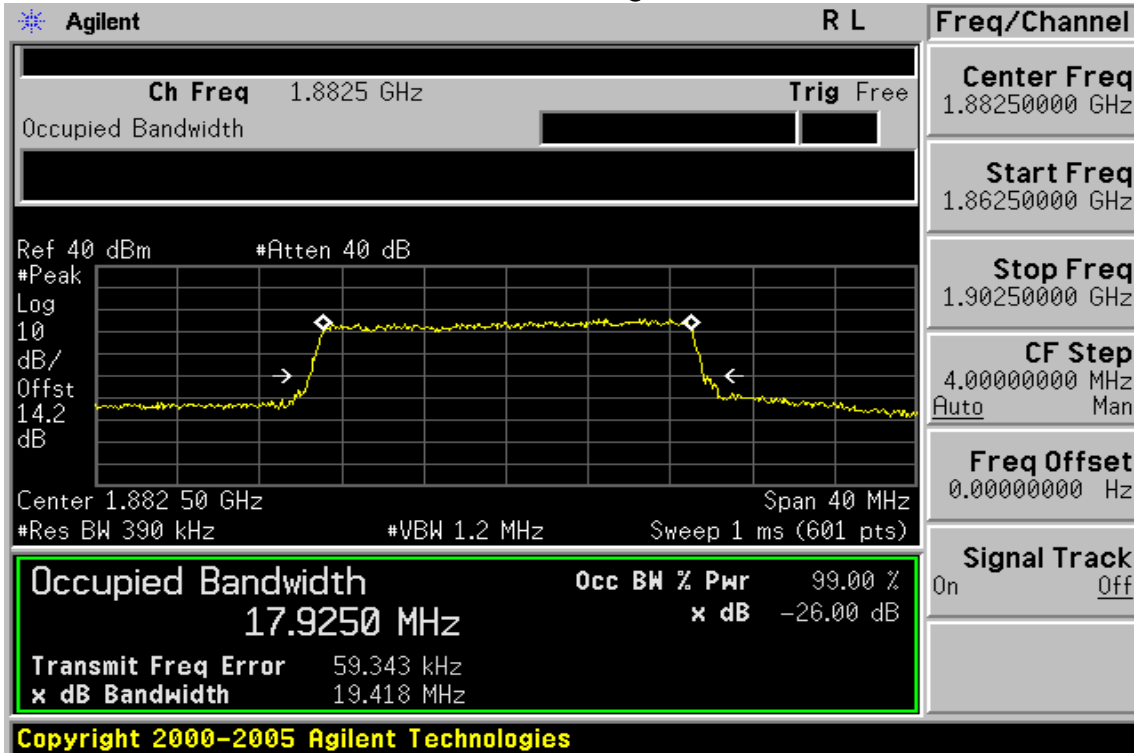
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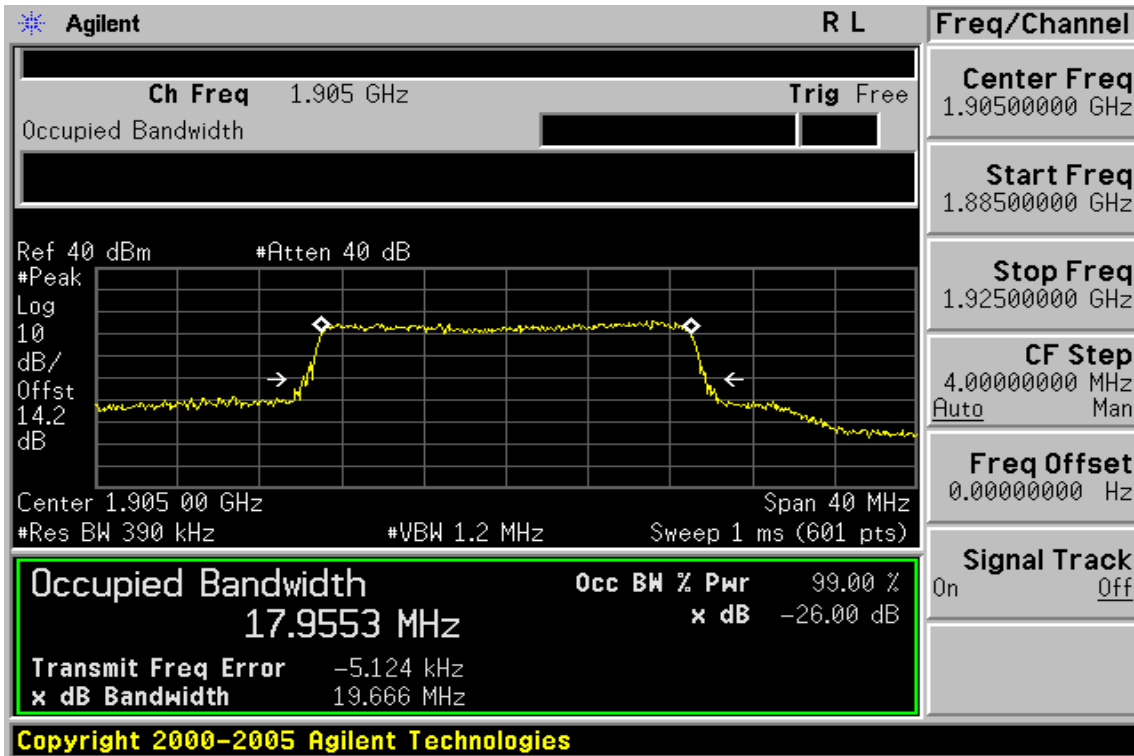
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20MHz BW LTE-Band 25 QPSK Channel Mid



20MHz BW LTE-Band 25 QPSK Channel High



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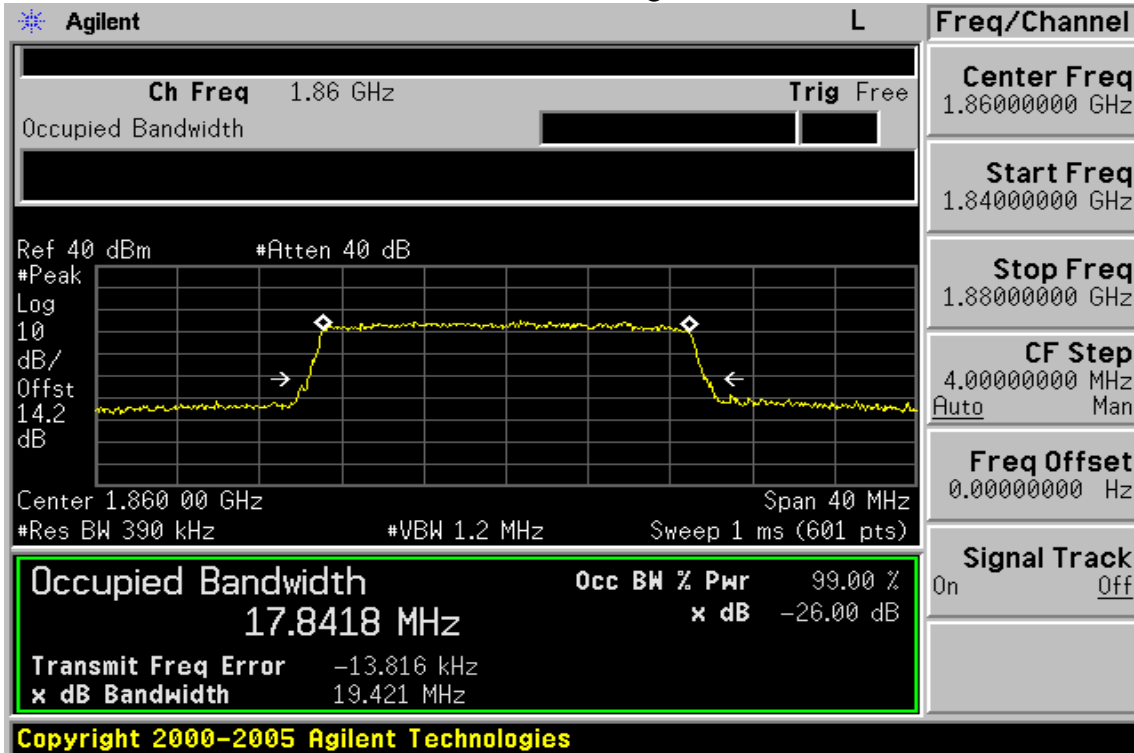
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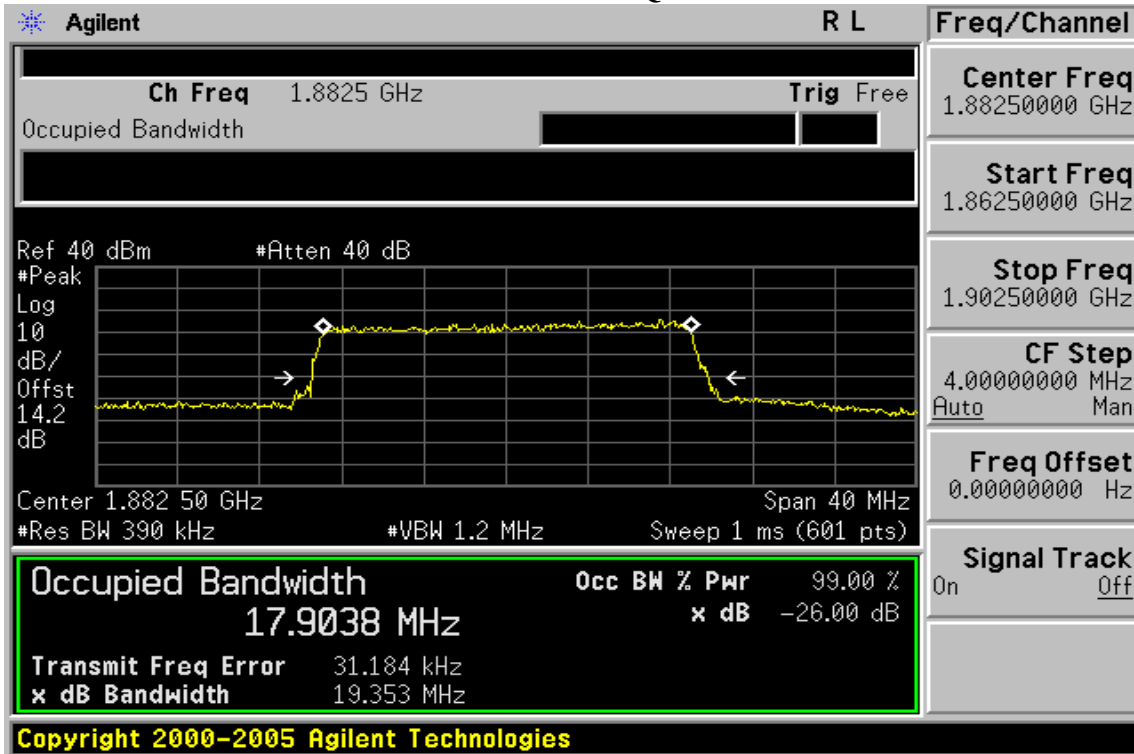
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20MHz BW LTE-Band 25 16QAM Channel Low



20MHz BW LTE-Band 25 16QAM Channel Mid



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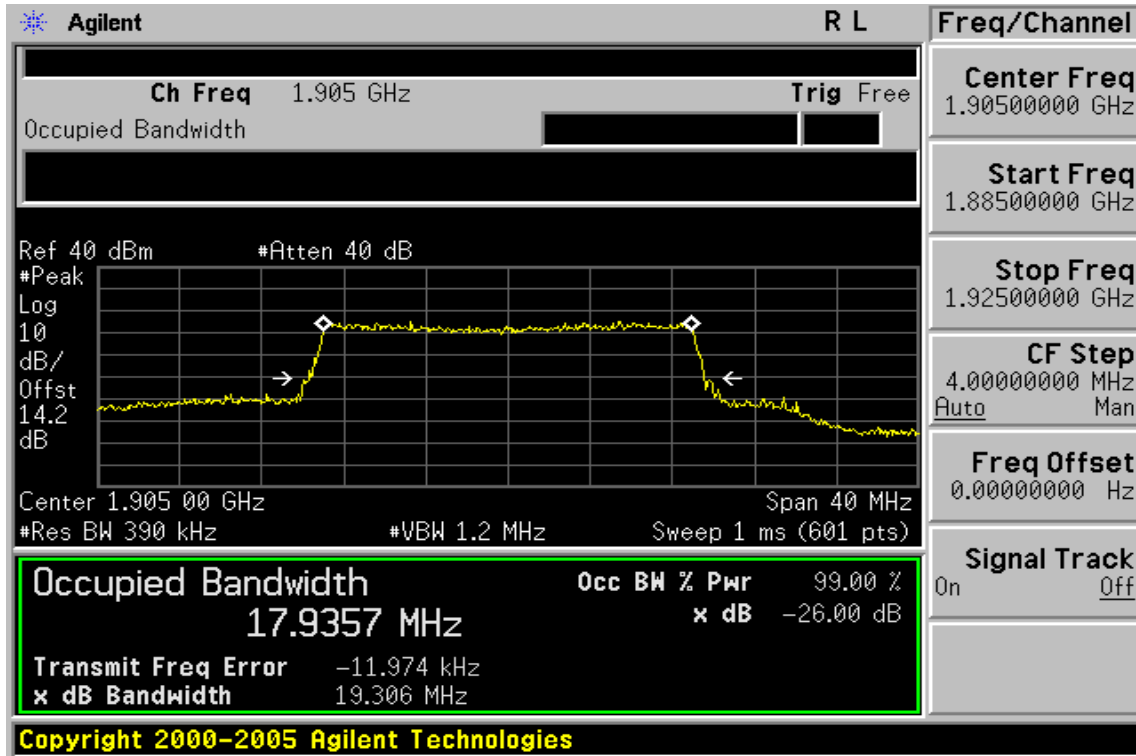
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20MHz BW LTE-Band 25 16QAM Channel High



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