

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO

**FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C
& SUBPART L REQUIREMENT**

OF

Product Name: PDA Phone
Brand Name: Sony
Type No.: PM-0872-BV
Model Difference: N/A
FCC ID: PY7-PM0872
Report No.: ER/2015/40157
Issue Date: Jun. 22, 2015
FCC Rule Part: 2, 22H & 24E & 27C & L
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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/40157	Rev.00	Initial creation of document	Jun. 22, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	PDA Phone	
Brand Name:	Sony	
Type No.:	PM-0872-BV	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: 1242-6715.3, Length: 100 cm	
Headset:	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
BT PHF:	Model No.: MW600, Supplier: BALDA Type No.: DDA-0002029.B coupling with Simple Hands Free (Model No.: MH755:, Supplier: BALDA, Type No.: AG-0502)	
Product SW/HW version:	30.0.A.0.20 / A	
Radio SW/HW version:	30.0.A.0.20 / A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	3.8Vdc	
	Battery:	Model No.: AGPB016-A001, Supplier: Sony Type No.: N/A
	Adapter:	1. Model No.: EP800, Supplier: Phihong Type No.: AC-0300-US 2. Model No.: EP800, Supplier: Salcomp Type No.: AC-0030-US
IMEI:	004402454897030	

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GSM / WCDMA / LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	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	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	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)	1715MHz – 1750MHz	23dBm
	LTE-Band 4 (Bandwidth 15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (Bandwidth 20MHz)	1720MHz – 1745MHz	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 – 847.5MHz	23dBm
	LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 7 (Bandwidth 5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (Bandwidth 10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (Bandwidth 15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (Bandwidth 20MHz)	2510.0MHz – 2560MHz	23dBm
	LTE-Band 12 (Bandwidth 1.4MHz)	699.7MHz – 715.3MHz	23dBm
	LTE-Band 12 (Bandwidth 3MHz)	700.5MHz – 714.5MHz	23dBm
	LTE-Band 12 (Bandwidth 5MHz)	701.5MHz – 713.5MHz	23dBm
	LTE-Band 12 (Bandwidth 10MHz)	704.0MHz – 711.0MHz	23dBm
	LTE-Band 13 (Bandwidth 5MHz)	779.5MHz – 784.5MHz	23dBm
	LTE-Band 13 (Bandwidth 10MHz)	782MHz - 782MHz	23dBm
	LTE-Band 17 (Bandwidth 5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (Bandwidth 10MHz)	709.0MHz – 711.0MHz	23dBm

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Type of Emission:	GSM 850	251KGXW
	EDGE 850	257KG7W
	GSM 1900	253KGXW
	EDGE 1900	246KG7W
	WCDMA Band II	4M21F9W
	WCDMA Band IV	4M21F9W
	WCDMA Band V	4M24F9W
	HSDPA Band II	4M23F9W
	HSDPA Band IV	4M21F9W
	HSDPA Band V	4M24F9W
	HSUPA Band II	4M21F9W
	HSUPA Band IV	4M22F9W
	HSUPA Band V	4M23F9W
	LTE-Band 2 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 2 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 2 (Bandwidth 3MHz) 16QAM	2M72D7W
	LTE-Band 2 (Bandwidth 5MHz) QPSK	4M54G7D
	LTE-Band 2 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 2 (Bandwidth 10MHz) QPSK	9M02G7D
	LTE-Band 2 (Bandwidth 10MHz) 16QAM	8M98D7W
	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	4M52G7D
	LTE-Band 4 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 4 (Bandwidth 10MHz) QPSK	9M01G7D
	LTE-Band 4 (Bandwidth 10MHz) 16QAM	8M97D7W
	LTE-Band 4 (Bandwidth 15MHz) QPSK	13M5G7D
LTE-Band 4 (Bandwidth 15MHz) 16QAM	13M5D7W	
LTE-Band 4 (Bandwidth 20MHz) QPSK	18M0G7D	
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	1M10D7W
	LTE-Band 5 (Bandwidth 3MHz) QPSK	2M75G7D
	LTE-Band 5 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 5 (Bandwidth 5MHz) QPSK	4M49G7D
	LTE-Band 5 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 5 (Bandwidth 10MHz) QPSK	8M99G7D
	LTE-Band 5 (Bandwidth 10MHz) 16QAM	9M00D7W
	LTE-Band 7 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 7 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 7 (Bandwidth 10MHz) QPSK	9M01G7D
	LTE-Band 7 (Bandwidth 10MHz) 16QAM	9M00D7W
	LTE-Band 7 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 7 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 7 (Bandwidth 20MHz) QPSK	18M0G7D
	LTE-Band 7 (Bandwidth 20MHz) 16QAM	18M0D7W
	LTE-Band 12 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 12 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 12 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 12 (Bandwidth 5MHz) QPSK	4M52G7D
	LTE-Band 12 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 12 (Bandwidth 10MHz) QPSK	9M01G7D
	LTE-Band 12 (Bandwidth 10MHz) 16QAM	8M97D7W
	LTE-Band 13 (Bandwidth 5MHz) QPSK	4M53G7D
	LTE-Band 13 (Bandwidth 5MHz) 16QAM	4M53D7W
	LTE-Band 13 (Bandwidth 10MHz) QPSK	9M03G7D
	LTE-Band 13 (Bandwidth 10MHz) 16QAM	9M01D7W
	LTE-Band 17 (Bandwidth 5MHz) QPSK	4M53G7D
	LTE-Band 17 (Bandwidth 5MHz) 16QAM	4M52D7W
LTE-Band 17 (Bandwidth 10MHz) QPSK	9M03G7D	
LTE-Band 17 (Bandwidth 10MHz) 16QAM	9M01D7W	

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Max ERP/EIRP Power Measurement Result:

	dBm		W
GSM 850	21.99	ERP	0.158
EDGE 850	21.20	ERP	0.132
GSM 1900	27.24	EIRP	0.530
EDGE 1900	26.44	EIRP	0.441
WCDMA Band II	22.95	EIRP	0.197
WCDMA Band IV	21.50	EIRP	0.141
WCDMA Band V	14.17	ERP	0.026
HSDPA Band II	23.52	EIRP	0.225
HSDPA Band IV	22.27	EIRP	0.169
HSDPA Band V	15.77	ERP	0.038
HSUPA Band II	23.46	EIRP	0.222
HSUPA Band IV	21.35	EIRP	0.136
HSUPA Band V	15.40	ERP	0.035
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	26.96	EIRP	0.497
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	26.41	EIRP	0.438
LTE-Band 2 (Bandwidth 3MHz) QPSK	26.32	EIRP	0.429
LTE-Band 2 (Bandwidth 3MHz) 16QAM	26.69	EIRP	0.467
LTE-Band 2 (Bandwidth 5MHz) QPSK	26.51	EIRP	0.448
LTE-Band 2 (Bandwidth 5MHz) 16QAM	26.76	EIRP	0.474
LTE-Band 2 (Bandwidth 10MHz) QPSK	26.52	EIRP	0.449
LTE-Band 2 (Bandwidth 10MHz) 16QAM	26.81	EIRP	0.480
LTE-Band 2 (Bandwidth 15MHz) QPSK	26.86	EIRP	0.485
LTE-Band 2 (Bandwidth 15MHz) 16QAM	27.07	EIRP	0.509
LTE-Band 2 (Bandwidth 20MHz) QPSK	26.89	EIRP	0.489
LTE-Band 2 (Bandwidth 20MHz) 16QAM	26.96	EIRP	0.497

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	dBm		W
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	25.97	EIRP	0.395
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	26.23	EIRP	0.420
LTE-Band 4 (Bandwidth 3MHz) QPSK	25.45	EIRP	0.351
LTE-Band 4 (Bandwidth 3MHz) 16QAM	25.75	EIRP	0.376
LTE-Band 4 (Bandwidth 5MHz) QPSK	25.48	EIRP	0.353
LTE-Band 4 (Bandwidth 5MHz) 16QAM	25.92	EIRP	0.391
LTE-Band 4 (Bandwidth 10MHz) QPSK	25.66	EIRP	0.368
LTE-Band 4 (Bandwidth 10MHz) 16QAM	26.22	EIRP	0.419
LTE-Band 4 (Bandwidth 15MHz) QPSK	25.99	EIRP	0.397
LTE-Band 4 (Bandwidth 15MHz) 16QAM	26.57	EIRP	0.454
LTE-Band 4 (Bandwidth 20MHz) QPSK	25.77	EIRP	0.378
LTE-Band 4 (Bandwidth 20MHz) 16QAM	26.48	EIRP	0.445
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	14.93	ERP	0.031
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	15.40	ERP	0.035
LTE-Band 5 (Bandwidth 3MHz) QPSK	15.69	ERP	0.037
LTE-Band 5 (Bandwidth 3MHz) 16QAM	16.26	ERP	0.042
LTE-Band 5 (Bandwidth 5MHz) QPSK	16.31	ERP	0.043
LTE-Band 5 (Bandwidth 5MHz) 16QAM	16.73	ERP	0.047
LTE-Band 5 (Bandwidth 10MHz) QPSK	15.66	ERP	0.037
LTE-Band 5 (Bandwidth 10MHz) 16QAM	16.01	ERP	0.040
LTE-Band 7 (Bandwidth 5MHz) QPSK	30.04	EIRP	1.009
LTE-Band 7 (Bandwidth 5MHz) 16QAM	30.58	EIRP	1.143
LTE-Band 7 (Bandwidth 10MHz) QPSK	29.56	EIRP	0.904
LTE-Band 7 (Bandwidth 10MHz) 16QAM	30.43	EIRP	1.104
LTE-Band 7 (Bandwidth 15MHz) QPSK	29.13	EIRP	0.818
LTE-Band 7 (Bandwidth 15MHz) 16QAM	30.17	EIRP	1.040
LTE-Band 7 (Bandwidth 20MHz) QPSK	29.00	EIRP	0.794
LTE-Band 7 (Bandwidth 20MHz) 16QAM	30.15	EIRP	1.035

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	dBm		W
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	13.26	ERP	0.021
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	13.62	ERP	0.023
LTE-Band 12 (Bandwidth 3MHz) QPSK	13.88	ERP	0.024
LTE-Band 12 (Bandwidth 3MHz) 16QAM	14.44	ERP	0.028
LTE-Band 12 (Bandwidth 5MHz) QPSK	13.76	ERP	0.024
LTE-Band 12 (Bandwidth 5MHz) 16QAM	14.41	ERP	0.028
LTE-Band 12 (Bandwidth 10MHz) QPSK	13.70	ERP	0.023
LTE-Band 12 (Bandwidth 10MHz) 16QAM	14.14	ERP	0.026
LTE-Band 13 (Bandwidth 5MHz) QPSK	14.71	ERP	0.030
LTE-Band 13 (Bandwidth 5MHz) 16QAM	14.81	ERP	0.030
LTE-Band 13 (Bandwidth 10MHz) QPSK	14.95	ERP	0.031
LTE-Band 13 (Bandwidth 10MHz) 16QAM	15.05	ERP	0.032
LTE-Band 17 (Bandwidth 5MHz) QPSK	12.91	ERP	0.020
LTE-Band 17 (Bandwidth 5MHz) 16QAM	13.19	ERP	0.021
LTE-Band 17 (Bandwidth 10MHz) QPSK	13.48	ERP	0.022
LTE-Band 17 (Bandwidth 10MHz) 16QAM	14.03	ERP	0.025

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1.2. Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	PDA Phone
Brand Name:	Sony
Type No.:	PM-0872-BV
Model Difference:	N/A
FCC ID	PY7-PM0872
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	Class 12
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Release 8
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 7 / 12 / 13 / 17
LTE Rel. Version	Release 9 / Category 4
Wi-Fi Specification	802.11a/b/g/n
Bluetooth Version	V4.0 dual mode + HS
NFC Specification	NFC

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

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

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

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

Note:

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

1.4. Test Facility

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

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-5.

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

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2.4. Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

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

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

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

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.8	698
GSM 1900	3.8	547
GPRS 850	3.8	511
GPRS 1900	3.8	496
EDGE 850	3.8	614
EDGE 1900	3.8	646
WCDMA B2	3.8	518
WCDMA B4	3.8	503
WCDMA B5	3.8	511
HSUPA B2	3.8	533
HSUPA B4	3.8	511
HSUPA B5	3.8	514
HSDPA B2	3.8	541

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HSDPA B4	3.8	536
HSDPA B5	3.8	536

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	3.8	990
LTE Band 2_1.4M 16QAM	3.8	933
LTE Band 2_3M QPSK	3.8	988
LTE Band 2_3M 16QAM	3.8	941
LTE Band 2_5M QPSK	3.8	996
LTE Band 2_5M 16QAM	3.8	923
LTE Band 2_10M QPSK	3.8	1021
LTE Band 2_10M 16QAM	3.8	954
LTE Band 2_15M QPSK	3.8	1015
LTE Band 2_15M 16QAM	3.8	961
LTE Band 2_20M QPSK	3.8	1012
LTE Band 2_20M 16QAM	3.8	976

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	3.8	1176
LTE Band 4_1.4M 16QAM	3.8	1079
LTE Band 4_3M QPSK	3.8	1171
LTE Band 4_3M 16QAM	3.8	1075
LTE Band 4_5M QPSK	3.8	1155
LTE Band 4_5M 16QAM	3.8	1072
LTE Band 4_10M QPSK	3.8	1132
LTE Band 4_10M 16QAM	3.8	1087
LTE Band 4_15M QPSK	3.8	1147
LTE Band 4_15M 16QAM	3.8	1095
LTE Band 4_20M QPSK	3.8	1154
LTE Band 4_20M 16QAM	3.8	1096

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	3.8	1033
LTE Band 5_1.4M 16QAM	3.8	987
LTE Band 5_3M QPSK	3.8	1030
LTE Band 5_3M 16QAM	3.8	973
LTE Band 5_5M QPSK	3.8	1046
LTE Band 5_5M 16QAM	3.8	974
LTE Band 5_10M QPSK	3.8	1029
LTE Band 5_10M 16QAM	3.8	969

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	3.8	721
LTE Band 7_5M 16QAM	3.8	669
LTE Band 7_10M QPSK	3.8	733
LTE Band 7_10M 16QAM	3.8	679
LTE Band 7_15M QPSK	3.8	748
LTE Band 7_15M 16QAM	3.8	697
LTE Band 7_20M QPSK	3.8	744
LTE Band 7_20M 16QAM	3.8	694

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 12_1.4M QPSK	3.8	908
LTE Band 12_1.4M 16QAM	3.8	868
LTE Band 12_3M QPSK	3.8	912
LTE Band 12_3M 16QAM	3.8	864
LTE Band 12_5M QPSK	3.8	920
LTE Band 12_5M 16QAM	3.8	862
LTE Band 12_10M QPSK	3.8	984
LTE Band 12_10M 16QAM	3.8	952

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 13_5M QPSK	3.8	716
LTE Band 13_5M 16QAM	3.8	664
LTE Band 13_10M QPSK	3.8	719
LTE Band 13_10M 16QAM	3.8	654

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 17_5M QPSK	3.8	635
LTE Band 17_5M 16QAM	3.8	593
LTE Band 17_10M QPSK	3.8	630
LTE Band 17_10M 16QAM	3.8	588

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2.6. Configuration of Tested System

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

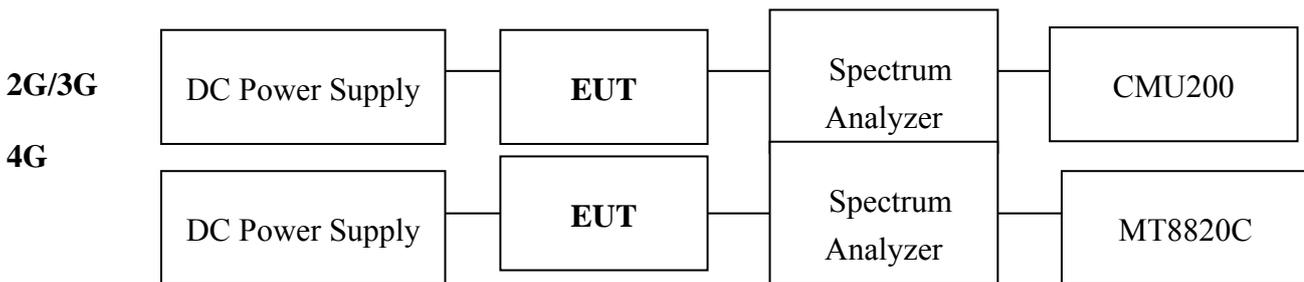
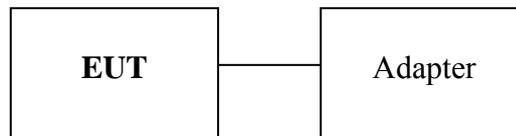


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

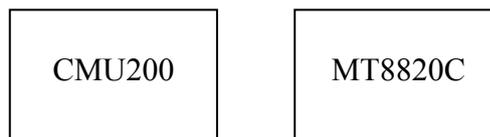


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	MY40005907	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(c)(10) §27.50(d)(4) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(c)(2), (4) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§27.53(f)	Spurious emission in 1559 -1610MHz Band	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
GSM/GPRS/EDGE 850	E1-plan	E1-plan
GSM/GPRS/EDGE 1900	E2-plan	E2-plan
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	E1-plan	E1-plan
WCDMA/HSPA Band V	E1-plan	E1-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E1-plan	E1-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	E2-plan	E2-plan
LTE Band 12	H-plan	H-plan
LTE Band 13	H-plan	H-plan
LTE Band 17	H-plan	H-plan

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GSM/GPRS/EDGE MODE

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

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 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, 4183, 4233 1312, 1413, 1513 9262, 9400, 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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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 Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
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 Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	1 RB/ 74 RB Offest

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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 Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
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 Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20025 to 20325	20025, 20175, 20325	15MHz	16QAM,	1 RB, 74 RB Offest

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LTE Band 5 MODE

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

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	16QAM,	1 RB, 0 RB Offest

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDEDTED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	1 RB/ 0 RB Offest

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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 Offest
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
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 Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23230	23230	10MHz	16QAM	1 RB/ 0 RB Offest

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 Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
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 Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	1 RB, 0 RB Offest

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3. 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 : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz - 417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	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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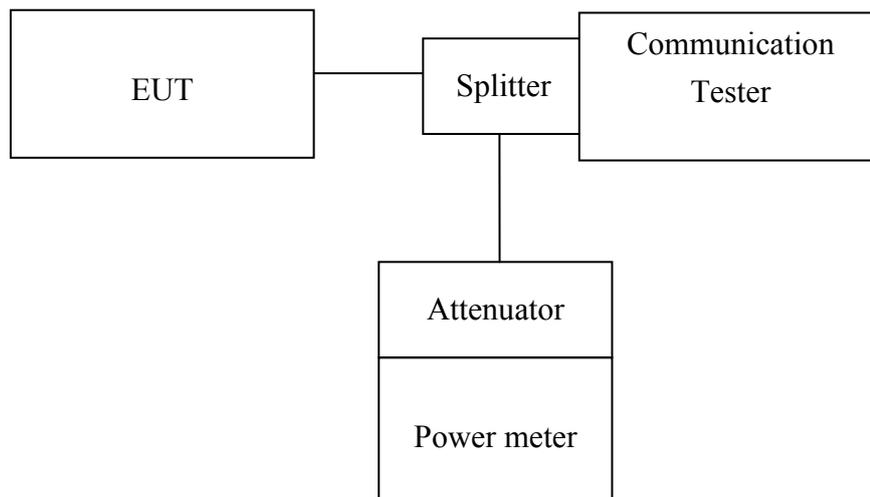
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5. RF CONDUCTED OUTPUT POWER MEASUREMENT

5.1. 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.

5.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

5.3. 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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5.4. 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
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
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

5.5. Measurement Result

RF Conducted Output Power

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

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 850	824.2	128	33.30	33.10
	836.6	190	33.20	33.00
	848.8	251	33.00	32.90
GSM 1900	1850.2	512	29.90	29.80
	1880.0	661	29.90	29.80
	1909.8	810	29.90	29.80

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	33.30	33.10	28.10	28.00	27.60	27.50	28.10	27.90
	836.6	190	33.20	33.00	28.10	28.00	27.70	27.50	28.00	27.80
	848.8	251	33.10	32.90	28.20	28.10	27.60	27.40	27.90	27.70
GPRS 1900	1850.2	512	29.90	29.80	28.90	28.70	27.00	26.80	25.70	25.50
	1880.0	661	29.90	29.80	28.80	28.70	27.00	26.90	25.70	25.60
	1909.8	810	29.90	29.80	28.90	28.70	27.10	27.00	25.80	25.70
EDGE 850	824.2	128	28.60	25.40	28.00	24.80	28.00	24.80	27.60	24.50
	836.6	190	28.80	25.60	28.20	25.00	28.30	25.00	27.90	24.80
	848.8	251	28.70	25.60	28.10	24.90	28.10	24.90	27.70	24.60
EDGE 1900	1850.2	512	28.30	24.90	27.60	24.20	27.70	24.10	27.00	23.70
	1880.0	661	28.60	25.00	28.00	24.40	27.80	24.30	27.20	23.90
	1909.8	810	28.30	24.90	27.70	24.20	27.80	24.20	27.10	23.80

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SGS Taiwan Ltd.

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WCDMA MODE:

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

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	26.27	23.30
	1880.0	9400	26.76	23.67
	1907.6	9538	26.11	23.19
WCDMA Band IV	1712.4	1312	26.67	23.89
	1732.6	1413	26.53	23.83
	1752.6	1513	26.25	23.68
WCDMA Band V	826.4	4132	26.48	23.20
	836.6	4183	26.32	23.15
	846.6	4233	26.52	23.23
HSDPA Band II	1852.4	9262	25.73	22.28
	1880.0	9400	26.08	22.03
	1907.6	9538	22.58	22.16
HSDPA Band IV	1712.4	1312	26.07	22.76
	1732.6	1413	25.91	22.53
	1752.6	1513	25.83	22.55
HSDPA Band V	826.4	4132	25.67	22.01
	836.6	4183	25.59	22.02
	846.6	4233	25.69	22.05

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	25.74	22.30
	1880.0	9400	26.03	22.50
	1907.6	9538	25.57	22.11
HSUPA Band IV	1712.4	1312	26.09	22.75
	1732.6	1413	25.93	22.53
	1752.6	1513	25.83	22.56
HSUPA Band V	826.4	4132	25.74	22.03
	836.6	4183	25.66	22.01
	846.6	4233	25.75	22.07

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

Cable loss offset Low Band: 0.4dB

Cable loss offset High Band: 0.7dB

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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	22.51	22.56	22.47	21.82	21.93	21.73
	1	5	22.49	22.56	22.44	21.76	21.87	21.60
	3	2	22.55	22.59	22.57	21.57	21.65	21.47
	6	0	21.50	21.65	21.59	20.75	20.77	20.66

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	22.50	22.53	22.45	21.48	21.89	21.73
	1	14	22.45	22.53	22.32	21.76	21.87	21.62
	8	4	21.62	21.64	21.58	20.73	20.79	20.51
	15	0	21.67	21.66	21.58	20.71	20.72	20.57

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	22.55	22.60	22.53	21.87	21.97	21.83
	1	24	22.48	22.58	22.44	21.77	21.89	21.64
	12	6	21.64	21.69	21.66	20.71	20.78	20.66
	25	0	21.56	21.62	21.61	20.68	20.71	20.58

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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	22.58	22.68	22.56	21.87	21.98	21.84
	1	49	22.51	22.62	22.48	21.66	21.87	21.67
	25	12	21.57	21.65	21.63	20.70	20.63	20.52
	50	0	21.70	21.70	21.68	20.74	20.77	20.70

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	22.58	22.71	22.60	21.98	22.03	21.92
	1	74	22.54	22.63	22.45	21.86	22.03	21.74
	36	19	21.70	21.72	21.57	20.76	20.80	20.73
	75	0	21.72	21.73	21.58	20.78	20.85	20.73

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	22.67	22.72	22.69	22.06	22.12	22.01
	1	99	22.64	22.67	22.47	21.88	21.92	21.69
	50	25	21.73	21.69	21.66	20.76	20.79	20.70
	100	0	21.71	21.72	21.64	20.67	20.73	20.68

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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	22.51	22.73	22.66	22.11	22.01	21.91
	1	5	22.91	22.65	22.67	21.97	21.92	21.98
	3	2	22.95	22.71	22.66	21.86	21.76	21.67
	6	0	21.95	21.86	21.86	21.16	20.99	20.92

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	22.59	22.72	22.60	22.14	21.99	21.89
	1	14	22.85	22.47	22.61	22.06	21.98	21.86
	8	4	21.90	21.86	21.84	21.14	20.95	20.92
	15	0	22.03	21.87	21.71	21.08	20.91	20.86

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	22.90	22.77	22.60	22.18	22.08	21.87
	1	24	22.81	22.67	22.63	22.02	21.95	21.89
	12	6	22.06	21.87	21.85	21.08	20.93	20.86
	25	0	22.02	21.88	21.82	21.04	20.89	20.67

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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	23.00	22.80	22.69	22.25	22.02	21.94
	1	49	22.79	22.70	22.35	21.92	22.00	21.90
	25	12	22.03	21.86	21.44	21.00	20.88	20.83
	50	0	22.06	21.91	21.84	21.05	20.92	20.86

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	22.86	22.86	22.89	22.20	22.15	22.07
	1	74	22.63	22.50	22.65	22.01	21.81	21.84
	36	19	22.00	21.90	21.87	20.95	20.92	20.90
	75	0	22.03	21.89	21.85	21.03	20.92	20.88

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	22.98	22.92	22.79	22.25	21.98	22.06
	1	99	22.69	22.62	22.63	22.01	21.73	21.76
	50	25	21.98	21.87	21.85	20.94	20.88	20.89
	100	0	21.95	21.85	21.82	20.94	20.87	20.86

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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	22.51	23.77	23.79	23.27	23.21	23.19
	1	5	23.77	23.81	23.24	23.08	23.04	23.14
	3	2	23.48	23.48	23.47	22.83	22.77	22.80
	6	0	22.97	23.00	22.90	22.13	22.07	22.13

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	23.73	23.74	23.68	23.22	23.05	23.03
	1	14	23.75	23.64	23.69	22.85	22.82	22.85
	8	4	22.97	22.99	22.93	22.09	22.03	22.02
	15	0	22.96	22.96	22.94	22.04	22.04	21.99

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625	Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625
5	1	0	23.58	23.15	23.57	23.04	22.77	23.08
	1	24	23.16	23.14	23.49	22.93	22.78	23.07
	12	6	22.96	22.95	23.00	22.05	22.11	22.07
	25	0	22.95	22.94	22.95	21.97	21.96	21.94

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	23.58	23.42	23.98	23.41	22.80	22.85
	1	49	23.54	23.88	23.88	23.20	23.07	23.20
	25	12	22.93	23.00	22.97	22.01	22.06	22.05
	50	0	23.01	23.00	23.01	22.05	22.04	22.10

LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	22.51	21.20	21.25	20.38	20.27	20.19
	1	24	21.00	21.09	21.21	20.23	20.32	20.45
	12	6	20.14	20.10	20.23	19.20	19.15	19.27
	25	0	20.10	20.09	20.19	19.13	19.09	19.18

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400
10	1	0	21.33	21.33	21.33	20.82	20.61	20.17
	1	49	21.18	21.19	21.28	20.09	20.53	20.12
	25	12	20.06	20.13	20.28	19.08	19.15	19.28
	50	0	20.09	20.15	20.28	19.10	19.18	19.26

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375	Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375
15	1	0	21.44	21.54	21.37	20.82	20.61	20.21
	1	74	21.55	21.35	21.38	20.87	20.45	20.55
	36	19	20.13	20.24	20.34	19.18	19.25	19.33
	75	0	20.23	20.28	20.33	19.25	19.28	19.31

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	21.52	21.67	21.51	20.72	20.69	20.79
	1	99	21.74	21.46	21.75	20.75	20.65	20.48
	50	25	20.32	20.30	20.40	19.33	19.32	19.40
	100	0	20.36	20.32	20.40	19.40	19.36	19.35

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LTE Band 12

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173	Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173
1.4	1	0	22.51	22.31	22.65	21.96	22.20	21.73
	1	5	22.67	22.64	22.55	21.75	21.59	21.97
	3	2	22.49	22.77	22.73	21.93	21.94	21.88
	6	0	21.84	21.84	21.81	21.04	21.01	20.98

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165	Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165
3	1	0	22.66	22.61	22.82	22.02	22.24	22.07
	1	14	22.66	22.65	22.64	22.06	22.05	22.11
	8	4	21.76	21.89	21.84	21.03	21.01	20.86
	15	0	21.90	21.88	21.89	20.98	20.88	20.98

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155	Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155
5	1	0	22.89	22.89	22.92	22.02	21.91	22.14
	1	24	22.32	22.87	22.53	22.14	21.76	22.04
	12	6	22.00	21.97	22.04	21.08	21.03	21.11
	25	0	21.91	21.92	21.79	21.00	20.97	21.02

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LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130	Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130
10	1	0	22.88	22.83	22.90	21.93	22.20	22.27
	1	49	22.94	23.05	22.88	22.01	22.21	22.13
	25	12	22.00	21.99	21.99	21.07	21.05	21.04
	50	0	21.86	22.00	21.97	21.07	21.05	21.01

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	22.51	22.91	22.97	21.92	22.14	22.26
	1	24	22.92	22.72	22.83	22.19	22.04	22.11
	12	6	21.94	21.86	21.92	21.07	20.99	21.03
	25	0	21.91	21.57	21.66	20.95	20.63	20.95

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	22.79	22.23
	1	49	22.56	22.11
	25	12	21.86	20.93
	50	0	21.86	20.94

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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) 23790	Channel (High) 23825	Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825
5	1	0	22.51	22.68	22.69	21.99	22.09	22.12
	1	24	22.65	22.60	22.64	21.89	21.62	21.94
	12	6	21.91	21.85	21.38	21.01	20.74	20.80
	25	0	21.88	21.66	21.40	20.78	20.75	20.60

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	22.59	22.63	22.70	21.94	22.32	22.26
	1	49	22.76	22.70	22.79	22.18	21.80	21.90
	25	12	21.86	21.68	21.81	20.59	20.87	20.86
	50	0	21.86	21.66	21.78	20.91	20.87	20.90

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HSDPA Release 6 MODE:

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

HSDPA SUB-TEST Setting

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

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

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

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.68	23.74	23.36	20.3dBm – 25.7dBm	Pass
	2	23.39	23.71	23.35	20.3dBm – 25.7dBm	Pass
	3	23.20	23.29	22.83	19.8dBm – 25.7dBm	Pass
	4	23.27	23.30	22.95	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	22.98	23.31	23.18	20.3dBm – 25.7dBm	Pass
	2	23.15	23.07	23.19	20.3dBm – 25.7dBm	Pass
	3	22.50	22.86	22.65	19.8dBm – 25.7dBm	Pass
	4	22.57	22.87	22.77	19.8dBm – 25.7dBm	Pass

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Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	22.86	22.99	23.23	20.3dBm – 25.7dBm	Pass
	2	23.00	23.02	22.98	20.3dBm – 25.7dBm	Pass
	3	22.40	22.51	22.74	19.8dBm – 25.7dBm	Pass
	4	22.45	22.55	22.80	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 6 MODE

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

HSPA SUB-TEST Setting

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

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

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

Results:

Mode	Sub-test	Avg. Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.43	23.83	23.44	18.8dBm – 25.7dBm	Pass
	2	21.48	21.90	21.48	16.8dBm – 25.7dBm	Pass
	3	22.49	22.85	22.52	17.8dBm – 25.7dBm	Pass
	4	21.61	21.95	21.52	16.8dBm – 25.7dBm	Pass
	5	23.32	23.69	23.35	18.8dBm – 25.7dBm	Pass

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Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.19	23.19	23.28	20.3dBm – 25.7dBm	Pass
	2	21.24	21.26	21.32	20.3dBm – 25.7dBm	Pass
	3	22.25	22.21	22.36	19.8dBm – 25.7dBm	Pass
	4	21.37	21.31	21.36	19.8dBm – 25.7dBm	Pass
	5	23.08	23.05	23.19	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	23.03	23.06	23.03	18.8dBm – 25.7dBm	Pass
	2	21.09	21.14	21.07	16.8dBm – 25.7dBm	Pass
	3	22.07	22.12	22.11	17.8dBm – 25.7dBm	Pass
	4	21.14	21.20	21.15	16.8dBm – 25.7dBm	Pass
	5	22.89	22.89	22.92	18.8dBm – 25.7dBm	Pass

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Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.3	27.3	25.3	23.3	21.3	19.2	17.2	15.2	13.2

PCL	9	10	11	12	13	14	15
Output power (dBm)	11.2	9.2	7.2	5.1	3.2	1.5	-0.2

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

WCDMA/HSDPA/HSUPA band II, V

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

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6. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

6.1. Standard Applicable

According to FCC §2.1046

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

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3W ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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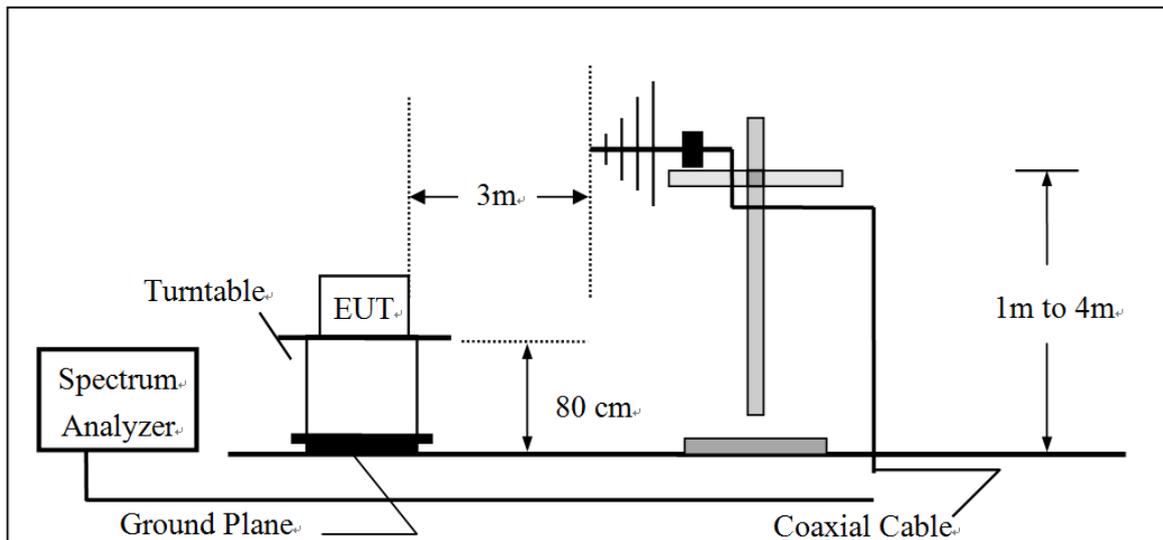
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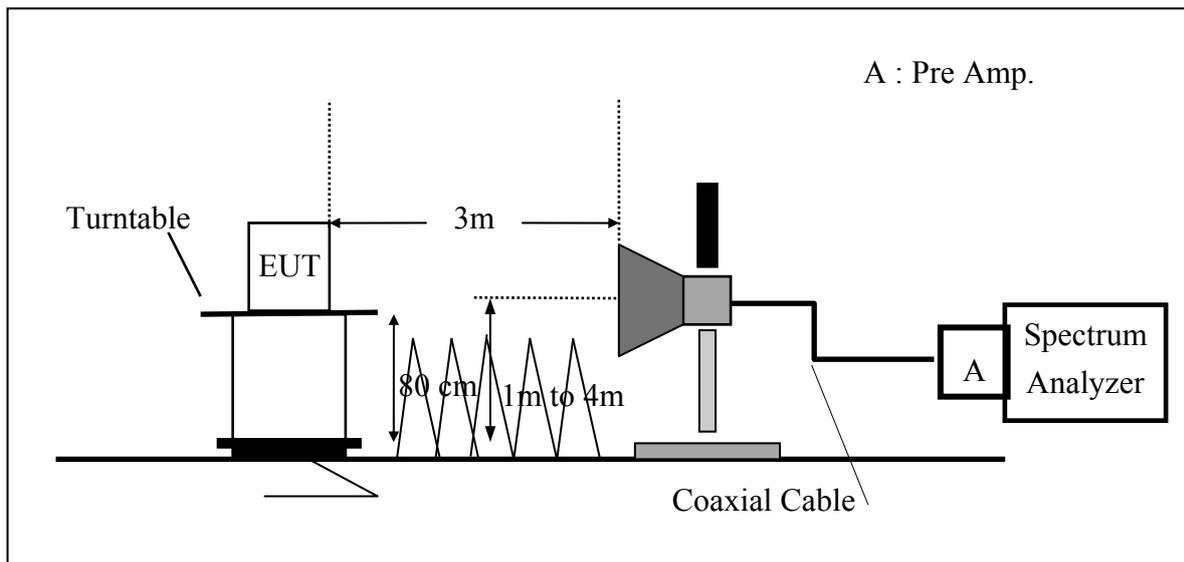
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6.2. Test SET-UP

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



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

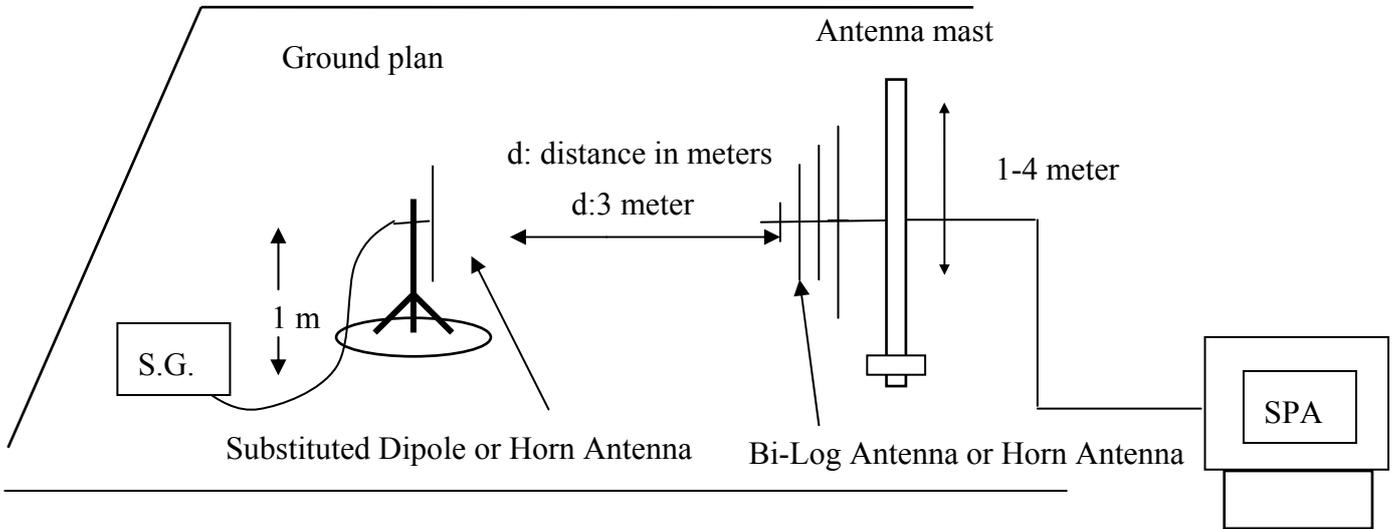


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(C) Substituted Method Test Set-UP



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6.3. 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 $VBW >= 3 \times RBW$.
 - (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 = $601 * 10^{-3} = 6s$.)

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 $10 * \log (TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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6.4. 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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6.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	13.47	3.45	-2.94	13.99	38.45
			H	21.47	3.45	-2.94	21.99	38.45
	836.6	190	V	12.81	3.46	-2.97	13.30	38.45
			H	21.48	3.46	-2.97	21.96	38.45
	848.8	251	V	11.61	3.47	-3.01	12.07	38.45
			H	20.39	3.47	-3.01	20.85	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	12.36	3.45	-2.94	12.88	38.45
			H	21.31	3.45	-2.94	21.83	38.45
	836.6	190	V	12.42	3.46	-2.97	12.91	38.45
			H	21.26	3.46	-2.97	21.74	38.45
	848.8	251	V	11.29	3.47	-3.01	11.75	38.45
			H	20.24	3.47	-3.01	20.70	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	10.97	3.45	-2.94	11.49	38.45
			H	20.31	3.45	-2.94	20.83	38.45
	836.6	190	V	11.57	3.46	-2.97	12.06	38.45
			H	20.72	3.46	-2.97	21.20	38.45
	848.8	251	V	10.59	3.47	-3.01	11.06	38.45
			H	19.69	3.47	-3.01	20.15	38.45

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	17.12	4.84	-4.49	17.48	33.01
			H	26.51	4.84	-4.49	26.87	33.01
	1880.0	661	V	19.53	4.79	-4.53	19.79	33.01
			H	25.85	4.79	-4.53	26.12	33.01
	1909.8	810	V	18.66	4.74	-4.57	18.84	33.01
			H	27.06	4.74	-4.57	27.24	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	16.82	4.84	-4.49	17.17	33.01
			H	26.44	4.84	-4.49	26.80	33.01
	1880.0	661	V	19.15	4.79	-4.53	19.42	33.01
			H	25.49	4.79	-4.53	25.76	33.01
	1909.8	810	V	18.39	4.74	-4.57	18.57	33.01
			H	26.90	4.74	-4.57	27.08	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	16.58	4.84	-4.49	16.94	33.01
			H	26.09	4.84	-4.49	26.44	33.01
	1880.0	661	V	18.00	4.79	-4.53	18.27	33.01
			H	24.86	4.79	-4.53	25.12	33.01
	1909.8	810	V	17.26	4.74	-4.57	17.44	33.01
			H	25.71	4.74	-4.57	25.89	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B2	1852.4	9262	V	12.24	4.84	-4.49	12.59	33.01
			H	22.60	4.84	-4.49	22.95	33.01
	1880.0	9400	V	13.85	4.79	-4.53	14.12	33.01
			H	22.63	4.79	-4.53	22.90	33.01
	1907.6	9538	V	12.85	4.75	-4.56	13.03	33.01
			H	21.92	4.75	-4.56	22.10	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	13.64	4.84	-4.49	13.99	33.01
			H	22.94	4.84	-4.49	23.29	33.01
	1880.0	9400	V	16.52	4.79	-4.53	16.79	33.01
			H	23.26	4.79	-4.53	23.52	33.01
	1907.6	9538	V	14.79	4.75	-4.56	14.97	33.01
			H	13.01	4.84	-4.49	13.36	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	23.07	4.75	-4.56	23.26	33.01
			H	22.89	4.84	-4.49	23.25	33.01
	1880.0	9400	V	15.37	4.79	-4.53	15.63	33.01
			H	23.19	4.79	-4.53	23.46	33.01
	1907.6	9538	V	14.41	4.75	-4.56	14.60	33.01
			H	22.74	4.75	-4.56	22.92	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	20.43	5.09	-4.29	21.22	30.00
			H	17.30	5.09	-4.29	18.10	30.00
	1732.6	1413	V	20.76	5.05	-4.31	21.50	30.00
			H	19.36	5.05	-4.31	20.10	30.00
	1752.6	1513	V	20.46	5.02	-4.36	21.11	30.00
			H	19.03	5.01	-4.37	19.67	30.00

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
HSDPA B4	1712.4	1312	V	21.47	5.09	-4.29	22.27	30.00
			H	18.71	5.09	-4.29	19.50	30.00
	1732.6	1413	V	20.96	5.05	-4.31	21.70	30.00
			H	20.38	5.05	-4.31	21.11	30.00
	1752.6	1513	V	21.27	5.01	-4.37	21.91	30.00
			H	20.53	5.01	-4.37	21.18	30.00

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
HSUPA B4	1712.4	1312	V	19.72	5.09	-4.29	20.51	30.00
			H	17.92	5.09	-4.29	18.71	30.00
	1732.6	1413	V	19.32	5.05	-4.31	20.06	30.00
			H	19.45	5.05	-4.31	20.19	30.00
	1752.6	1513	V	20.71	5.01	-4.37	21.35	30.00
			H	19.92	5.01	-4.37	20.56	30.00

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	5.80	3.46	-2.94	6.31	38.45
			H	13.66	3.46	-2.94	14.17	38.45
	836.6	4183	V	4.13	3.46	-2.97	4.61	38.45
			H	13.48	3.46	-2.97	13.97	38.45
	846.6	4233	V	4.14	3.47	-3.01	4.61	38.45
			H	13.11	3.47	-3.01	13.57	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	7.01	3.46	-2.94	7.52	38.45
			H	15.26	3.46	-2.94	15.77	38.45
	836.6	4183	V	5.53	3.46	-2.97	6.02	38.45
			H	15.19	3.46	-2.97	15.68	38.45
	846.6	4233	V	5.63	3.47	-3.01	6.09	38.45
			H	14.89	3.47	-3.01	15.35	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	6.84	3.46	-2.94	7.35	38.45
			H	14.89	3.46	-2.94	15.40	38.45
	836.6	4183	V	4.76	3.46	-2.97	5.24	38.45
			H	14.75	3.46	-2.97	15.24	38.45
	846.6	4233	V	5.10	3.47	-3.01	5.56	38.45
			H	14.34	3.47	-3.01	14.80	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	26.60	4.84	-4.49	26.96	33.01
			H	22.15	4.84	-4.49	22.51	33.01
	1880.0	18900	V	25.46	4.80	-4.52	25.73	33.01
			H	20.69	4.80	-4.52	20.96	33.01
	1909.3	19193	V	24.70	4.75	-4.56	24.88	33.01
			H	18.82	4.75	-4.56	19.00	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	25.22	4.84	-4.49	25.58	33.01
			H	20.03	4.84	-4.49	20.39	33.01
	1880.0	18900	V	25.71	4.79	-4.53	25.97	33.01
			H	20.68	4.79	-4.53	20.95	33.01
	1909.3	19193	V	24.10	4.75	-4.56	24.28	33.01
			H	18.20	4.74	-4.57	18.38	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	25.32	4.84	-4.49	25.68	33.01
			H	20.34	4.84	-4.49	20.70	33.01
	1880.0	18900	V	25.82	4.80	-4.52	26.09	33.01
			H	21.09	4.80	-4.52	21.36	33.01
	1909.3	19193	V	24.94	4.75	-4.56	25.12	33.01
			H	19.11	4.75	-4.56	19.29	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	25.33	4.84	-4.49	25.69	33.01
			H	20.23	4.84	-4.49	20.58	33.01
	1880.0	18900	V	26.14	4.79	-4.53	26.41	33.01
			H	21.16	4.79	-4.53	21.42	33.01
	1909.3	19193	V	24.49	4.75	-4.56	24.67	33.01
			H	18.56	4.75	-4.56	18.74	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	25.09	4.84	-4.49	25.45	33.01
			H	20.14	4.84	-4.49	20.49	33.01
	1880.0	18900	V	25.25	4.80	-4.52	25.53	33.01
			H	20.58	4.80	-4.52	20.86	33.01
	1908.5	19185	V	24.93	4.75	-4.56	25.12	33.01
			H	19.25	4.75	-4.56	19.44	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	25.01	4.84	-4.49	25.36	33.01
			H	19.83	4.84	-4.49	20.18	33.01
	1880.0	18900	V	26.05	4.79	-4.53	26.32	33.01
			H	20.57	4.79	-4.53	20.84	33.01
	1908.5	19185	V	24.23	4.75	-4.56	24.41	33.01
			H	18.18	4.75	-4.56	18.36	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	25.26	4.84	-4.49	25.61	33.01
			H	20.31	4.84	-4.49	20.66	33.01
	1880.0	18900	V	25.56	4.80	-4.52	25.83	33.01
			H	20.88	4.80	-4.52	21.15	33.01
	1908.5	19185	V	25.16	4.75	-4.56	25.35	33.01
			H	19.47	4.75	-4.56	19.66	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	25.25	4.84	-4.49	25.60	33.01
			H	20.24	4.84	-4.49	20.59	33.01
	1880.0	18900	V	26.43	4.79	-4.53	26.69	33.01
			H	20.94	4.79	-4.53	21.20	33.01
	1908.5	19185	V	24.62	4.75	-4.56	24.80	33.01
			H	18.56	4.75	-4.56	18.74	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: 5M QPSK RB: 1,0	1852.5	18625	V	25.21	4.84	-4.49	25.57	33.01
			H	20.33	4.84	-4.49	20.69	33.01
	1880.0	18900	V	24.84	4.80	-4.52	25.11	33.01
			H	20.57	4.80	-4.52	20.84	33.01
	1907.5	19175	V	24.54	4.75	-4.56	24.73	33.01
			H	19.05	4.75	-4.56	19.24	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	24.93	4.84	-4.49	25.28	33.01
			H	19.44	4.84	-4.49	19.78	33.01
	1880.0	18900	V	26.25	4.79	-4.53	26.51	33.01
			H	20.81	4.79	-4.53	21.07	33.01
	1907.5	19175	V	24.42	4.75	-4.56	24.60	33.01
			H	18.34	4.75	-4.56	18.52	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	25.37	4.84	-4.49	25.73	33.01
			H	20.38	4.84	-4.49	20.74	33.01
	1880.0	18900	V	25.05	4.80	-4.52	25.32	33.01
			H	20.82	4.80	-4.52	21.10	33.01
	1907.5	19175	V	24.76	4.75	-4.56	24.96	33.01
			H	19.35	4.75	-4.56	19.54	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	25.12	4.84	-4.49	25.47	33.01
			H	19.63	4.84	-4.49	19.98	33.01
	1880.0	18900	V	26.49	4.79	-4.53	26.76	33.01
			H	21.05	4.79	-4.53	21.31	33.01
	1907.5	19175	V	24.65	4.74	-4.57	24.83	33.01
			H	18.62	4.74	-4.57	18.80	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: 10M QPSK RB: 1,0	1855.0	18650	V	25.19	4.84	-4.49	25.55	33.01
			H	20.18	4.84	-4.49	20.54	33.01
	1880.0	18900	V	23.73	4.80	-4.52	24.01	33.01
			H	20.09	4.80	-4.52	20.37	33.01
	1905.0	19150	V	23.77	4.76	-4.55	23.97	33.01
			H	18.35	4.76	-4.55	18.56	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	24.77	4.83	-4.50	25.10	33.01
			H	17.88	4.83	-4.50	18.21	33.01
	1880.0	18900	V	26.26	4.79	-4.53	26.52	33.01
			H	20.50	4.79	-4.53	20.75	33.01
	1905.0	19150	V	24.58	4.75	-4.56	24.76	33.01
			H	18.52	4.75	-4.56	18.70	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	25.38	4.84	-4.49	25.74	33.01
			H	20.42	4.84	-4.49	20.77	33.01
	1880.0	18900	V	24.10	4.80	-4.52	24.39	33.01
			H	20.46	4.80	-4.52	20.74	33.01
	1905.0	19150	V	24.02	4.76	-4.55	24.22	33.01
			H	18.56	4.76	-4.55	18.77	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	25.03	4.83	-4.50	25.37	33.01
			H	18.17	4.83	-4.50	18.50	33.01
	1880.0	18900	V	26.56	4.79	-4.53	26.81	33.01
			H	20.80	4.79	-4.53	21.05	33.01
	1905.0	19150	V	24.81	4.75	-4.56	24.99	33.01
			H	18.75	4.75	-4.56	18.93	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: 15M QPSK RB: 1,0	1857.5	18675	V	25.19	4.84	-4.49	25.55	33.01
			H	20.26	4.84	-4.49	20.62	33.01
	1880.0	18900	V	23.27	4.81	-4.52	23.56	33.01
			H	19.50	4.81	-4.52	19.79	33.01
	1902.5	19125	V	24.86	4.77	-4.55	25.08	33.01
			H	18.57	4.77	-4.55	18.79	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	24.57	4.82	-4.50	24.88	33.01
			H	17.60	4.82	-4.50	17.92	33.01
	1880.0	18900	V	26.61	4.78	-4.53	26.86	33.01
			H	20.52	4.78	-4.54	20.77	33.01
	1902.5	19125	V	24.69	4.75	-4.56	24.88	33.01
			H	18.66	4.75	-4.56	18.84	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	25.40	4.84	-4.49	25.75	33.01
			H	20.39	4.84	-4.49	20.75	33.01
	1880.0	18900	V	23.60	4.81	-4.52	23.89	33.01
			H	19.82	4.80	-4.52	20.11	33.01
	1902.5	19125	V	25.06	4.77	-4.55	25.28	33.01
			H	18.79	4.77	-4.55	19.01	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	24.82	4.82	-4.50	25.14	33.01
			H	17.91	4.82	-4.50	18.23	33.01
	1880.0	18900	V	26.82	4.78	-4.53	27.07	33.01
			H	20.70	4.78	-4.53	20.95	33.01
	1902.5	19125	V	24.97	4.75	-4.56	25.15	33.01
			H	18.95	4.75	-4.56	19.14	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	25.35	4.84	-4.49	25.71	33.01
			H	20.24	4.84	-4.49	20.60	33.01
	1880.0	18900	V	22.74	4.81	-4.51	23.03	33.01
			H	18.65	4.81	-4.51	18.95	33.01
	1900.0	19100	V	26.07	4.78	-4.54	26.31	33.01
			H	19.37	4.78	-4.54	19.61	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	23.15	4.81	-4.51	23.45	33.01
			H	17.87	4.81	-4.51	18.17	33.01
	1880.0	18900	V	26.65	4.78	-4.54	26.89	33.01
			H	19.94	4.78	-4.54	20.18	33.01
	1900.0	19100	V	24.85	4.75	-4.56	25.03	33.01
			H	18.51	4.75	-4.56	18.69	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	25.38	4.84	-4.49	25.73	33.01
			H	20.35	4.84	-4.49	20.71	33.01
	1880.0	18900	V	23.03	4.81	-4.51	23.33	33.01
			H	18.99	4.81	-4.51	19.28	33.01
	1900.0	19100	V	26.11	4.78	-4.54	26.34	33.01
			H	19.43	4.78	-4.54	19.67	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	23.51	4.81	-4.51	23.81	33.01
			H	18.29	4.81	-4.51	18.59	33.01
	1880.0	18900	V	26.71	4.78	-4.54	26.96	33.01
			H	20.10	4.78	-4.54	20.34	33.01
	1900.0	19100	V	25.03	4.75	-4.56	25.22	33.01
			H	18.72	4.75	-4.56	18.90	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	25.17	5.09	-4.29	25.97	30.00
			H	20.21	5.09	-4.29	21.01	30.00
	1732.5	20175	V	24.65	5.05	-4.31	25.39	30.00
			H	21.91	5.05	-4.31	22.65	30.00
	1754.3	20393	V	24.40	5.01	-4.37	25.04	30.00
			H	20.04	5.01	-4.37	20.69	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	24.94	5.09	-4.29	25.74	30.00
			H	19.98	5.09	-4.29	20.78	30.00
	1732.5	20175	V	24.74	5.05	-4.31	25.48	30.00
			H	21.95	5.05	-4.31	22.68	30.00
	1754.3	20393	V	24.38	5.01	-4.37	25.01	30.00
			H	20.06	5.01	-4.37	20.70	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	25.42	5.09	-4.29	26.23	30.00
			H	20.59	5.09	-4.29	21.39	30.00
	1732.5	20175	V	24.93	5.05	-4.31	25.66	30.00
			H	22.24	5.05	-4.31	22.98	30.00
	1754.3	20393	V	24.46	5.01	-4.37	25.10	30.00
			H	20.36	5.01	-4.37	21.00	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	25.19	5.09	-4.29	25.99	30.00
			H	20.43	5.09	-4.29	21.23	30.00
	1732.5	20175	V	25.18	5.05	-4.31	25.92	30.00
			H	22.37	5.05	-4.31	23.10	30.00
	1754.3	20393	V	24.46	5.01	-4.37	25.09	30.00
			H	20.39	5.01	-4.37	21.02	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	24.64	5.09	-4.29	25.45	30.00
			H	20.12	5.09	-4.29	20.92	30.00
	1732.5	20175	V	23.78	5.05	-4.31	24.52	30.00
			H	21.65	5.05	-4.31	22.40	30.00
	1753.5	20385	V	24.00	5.01	-4.37	24.65	30.00
			H	20.03	5.02	-4.37	20.68	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	24.04	5.09	-4.29	24.83	30.00
			H	19.66	5.09	-4.29	20.46	30.00
	1732.5	20175	V	24.49	5.05	-4.31	25.23	30.00
			H	22.09	5.05	-4.32	22.82	30.00
	1753.5	20385	V	24.14	5.01	-4.37	24.78	30.00
			H	20.23	5.01	-4.37	20.86	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	24.95	5.09	-4.29	25.75	30.00
			H	20.46	5.09	-4.29	21.26	30.00
	1732.5	20175	V	24.16	5.05	-4.31	24.90	30.00
			H	21.95	5.05	-4.31	22.69	30.00
	1753.5	20385	V	24.24	5.01	-4.37	24.89	30.00
			H	20.30	5.02	-4.37	20.95	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	24.41	5.09	-4.29	25.20	30.00
			H	20.01	5.09	-4.29	20.80	30.00
	1732.5	20175	V	24.93	5.05	-4.31	25.67	30.00
			H	22.56	5.05	-4.32	23.29	30.00
	1753.5	20385	V	24.33	5.01	-4.37	24.96	30.00
			H	20.46	5.01	-4.37	21.09	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	24.68	5.09	-4.29	25.48	30.00
			H	19.92	5.09	-4.29	20.72	30.00
	1732.5	20175	V	23.63	5.05	-4.31	24.38	30.00
			H	21.43	5.05	-4.31	22.18	30.00
	1752.5	20375	V	23.95	5.02	-4.36	24.60	30.00
			H	20.00	5.02	-4.36	20.65	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	23.77	5.08	-4.29	24.56	30.00
			H	19.33	5.08	-4.29	20.12	30.00
	1732.5	20175	V	24.73	5.04	-4.32	25.45	30.00
			H	22.14	5.05	-4.32	22.87	30.00
	1752.5	20375	V	24.15	5.01	-4.37	24.78	30.00
			H	20.18	5.01	-4.37	20.82	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	25.04	5.09	-4.29	25.84	30.00
			H	20.34	5.09	-4.29	21.14	30.00
	1732.5	20175	V	23.93	5.05	-4.31	24.68	30.00
			H	21.73	5.05	-4.31	22.48	30.00
	1752.5	20375	V	24.24	5.02	-4.36	24.90	30.00
			H	20.39	5.02	-4.36	21.05	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	24.07	5.08	-4.29	24.86	30.00
			H	19.66	5.08	-4.29	20.44	30.00
	1732.5	20175	V	25.19	5.04	-4.32	25.92	30.00
			H	22.60	5.05	-4.32	23.33	30.00
	1752.5	20375	V	24.32	5.01	-4.38	24.96	30.00
			H	20.45	5.01	-4.37	21.09	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	24.47	5.09	-4.29	25.27	30.00
			H	19.92	5.09	-4.29	20.72	30.00
	1732.5	20175	V	22.84	5.06	-4.30	23.59	30.00
			H	21.00	5.06	-4.30	21.76	30.00
	1750.0	20350	V	24.31	5.03	-4.35	24.99	30.00
			H	20.45	5.03	-4.35	21.13	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	22.67	5.07	-4.30	23.45	30.00
			H	19.73	5.07	-4.30	20.51	30.00
	1732.5	20175	V	24.94	5.04	-4.32	25.66	30.00
			H	22.30	5.04	-4.32	23.02	30.00
	1750.0	20350	V	24.11	5.01	-4.37	24.74	30.00
			H	20.19	5.01	-4.37	20.83	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	24.85	5.09	-4.29	25.65	30.00
			H	20.28	5.09	-4.29	21.08	30.00
	1732.5	20175	V	23.06	5.06	-4.30	23.82	30.00
			H	21.21	5.06	-4.30	21.96	30.00
	1750.0	20350	V	24.75	5.03	-4.35	25.43	30.00
			H	20.91	5.03	-4.35	21.59	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	22.89	5.07	-4.30	23.67	30.00
			H	19.97	5.07	-4.30	20.74	30.00
	1732.5	20175	V	25.50	5.04	-4.32	26.22	30.00
			H	22.82	5.04	-4.32	23.54	30.00
	1750.0	20350	V	24.25	5.01	-4.37	24.89	30.00
			H	20.37	5.01	-4.37	21.01	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: 15M QPSK RB: 1,0	1717.5	20025	V	24.56	5.09	-4.29	25.37	30.00
			H	19.77	5.09	-4.29	20.57	30.00
	1732.5	20175	V	22.68	5.06	-4.30	23.44	30.00
			H	20.55	5.06	-4.30	21.30	30.00
	1747.5	20325	V	25.28	5.03	-4.34	25.98	30.00
			H	21.79	5.03	-4.34	22.49	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	22.50	5.06	-4.30	23.26	30.00
			H	20.36	5.06	-4.30	21.12	30.00
	1732.5	20175	V	25.29	5.04	-4.33	25.99	30.00
			H	22.11	5.04	-4.33	22.82	30.00
	1747.5	20325	V	24.04	5.01	-4.37	24.68	30.00
			H	20.16	5.01	-4.37	20.80	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	24.89	5.09	-4.29	25.69	30.00
			H	20.11	5.09	-4.29	20.91	30.00
	1732.5	20175	V	22.83	5.06	-4.30	23.59	30.00
			H	20.71	5.06	-4.30	21.47	30.00
	1747.5	20325	V	25.85	5.03	-4.34	26.55	30.00
			H	22.40	5.03	-4.34	23.10	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	22.64	5.06	-4.30	23.40	30.00
			H	20.53	5.06	-4.30	21.29	30.00
	1732.5	20175	V	25.86	5.04	-4.33	26.57	30.00
			H	22.70	5.04	-4.33	23.40	30.00
	1747.5	20325	V	24.21	5.01	-4.37	24.85	30.00
			H	20.46	5.01	-4.37	21.10	30.00

Remark :

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	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	24.36	5.09	-4.29	25.16	30.00
			H	19.70	5.09	-4.29	20.50	30.00
	1732.5	20175	V	22.44	5.07	-4.30	23.20	30.00
			H	20.23	5.07	-4.30	21.00	30.00
	1745.0	20300	V	25.05	5.04	-4.32	25.77	30.00
			H	22.24	5.04	-4.32	22.96	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	23.27	5.06	-4.30	24.02	30.00
			H	21.02	5.06	-4.30	21.77	30.00
	1732.5	20175	V	25.01	5.03	-4.34	25.71	30.00
			H	21.32	5.03	-4.34	22.01	30.00
	1745.0	20300	V	23.85	5.01	-4.37	24.49	30.00
			H	20.18	5.01	-4.37	20.82	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	24.70	5.09	-4.29	25.50	30.00
			H	20.00	5.09	-4.29	20.80	30.00
	1732.5	20175	V	22.63	5.07	-4.30	23.40	30.00
			H	20.43	5.07	-4.30	21.20	30.00
	1745.0	20300	V	25.52	5.04	-4.32	26.24	30.00
			H	22.76	5.04	-4.32	23.48	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	23.57	5.06	-4.30	24.33	30.00
			H	20.52	5.06	-4.30	21.29	30.00
	1732.5	20175	V	25.79	5.03	-4.34	26.48	30.00
			H	22.22	5.03	-4.34	22.92	30.00
	1745.0	20300	V	24.04	5.01	-4.37	24.68	30.00
			H	20.40	5.01	-4.37	21.04	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	12.33	3.45	-2.94	12.85	38.45
			H	13.91	3.45	-2.94	14.43	38.45
	836.5	20525	V	10.70	3.46	-2.97	11.19	38.45
			H	13.79	3.46	-2.97	14.28	38.45
	848.3	20643	V	11.08	3.47	-3.01	11.54	38.45
			H	14.00	3.47	-3.01	14.46	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	12.60	3.46	-2.94	13.11	38.45
			H	14.42	3.46	-2.94	14.93	38.45
	836.5	20525	V	10.71	3.46	-2.97	11.20	38.45
			H	13.74	3.46	-2.97	14.23	38.45
	848.3	20643	V	10.48	3.47	-3.01	10.94	38.45
			H	13.41	3.47	-3.00	13.88	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	12.51	3.45	-2.94	13.03	38.45
			H	14.20	3.45	-2.94	14.71	38.45
	836.5	20525	V	10.90	3.46	-2.97	11.39	38.45
			H	13.92	3.46	-2.97	14.41	38.45
	848.3	20643	V	11.20	3.47	-3.01	11.66	38.45
			H	14.32	3.47	-3.00	14.78	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	13.08	3.46	-2.94	13.59	38.45
			H	14.88	3.46	-2.94	15.40	38.45
	836.5	20525	V	10.99	3.46	-2.97	11.48	38.45
			H	14.02	3.46	-2.97	14.51	38.45
	848.3	20643	V	10.72	3.47	-3.01	11.18	38.45
			H	13.68	3.47	-3.01	14.14	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	12.42	3.45	-2.94	12.94	38.45
			H	13.81	3.45	-2.94	14.33	38.45
	836.5	20525	V	11.01	3.46	-2.97	11.50	38.45
			H	13.68	3.46	-2.97	14.17	38.45
	847.5	20635	V	11.62	3.47	-3.00	12.09	38.45
			H	14.56	3.47	-3.00	15.02	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	13.28	3.46	-2.94	13.79	38.45
			H	15.18	3.46	-2.94	15.69	38.45
	836.5	20525	V	11.38	3.46	-2.97	11.86	38.45
			H	13.97	3.46	-2.97	14.46	38.45
	847.5	20635	V	10.39	3.47	-3.01	10.85	38.45
			H	13.04	3.47	-3.01	13.50	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	12.61	3.46	-2.94	13.12	38.45
			H	14.13	3.45	-2.94	14.65	38.45
	836.5	20525	V	11.26	3.46	-2.97	11.75	38.45
			H	13.89	3.46	-2.97	14.38	38.45
	847.5	20635	V	11.86	3.47	-3.00	12.33	38.45
			H	14.77	3.47	-3.00	15.23	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	13.85	3.46	-2.94	14.37	38.45
			H	15.75	3.46	-2.94	16.26	38.45
	836.5	20525	V	11.71	3.46	-2.98	12.20	38.45
			H	14.25	3.46	-2.98	14.74	38.45
	847.5	20635	V	10.59	3.47	-3.01	11.05	38.45
			H	13.21	3.47	-3.01	13.67	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	12.28	3.46	-2.94	12.80	38.45
			H	13.79	3.45	-2.94	14.31	38.45
	836.5	20525	V	11.03	3.46	-2.97	11.53	38.45
			H	13.65	3.46	-2.97	14.14	38.45
	846.5	20625	V	13.31	3.46	-2.99	13.78	38.45
			H	15.84	3.46	-2.99	16.31	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	13.10	3.46	-2.95	13.61	38.45
			H	15.00	3.46	-2.95	15.50	38.45
	836.5	20525	V	11.72	3.46	-2.98	12.21	38.45
			H	14.19	3.46	-2.98	14.68	38.45
	846.5	20625	V	10.47	3.47	-3.01	10.93	38.45
			H	12.82	3.47	-3.01	13.28	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	12.67	3.45	-2.94	13.19	38.45
			H	14.14	3.45	-2.94	14.66	38.45
	836.5	20525	V	11.26	3.46	-2.97	11.76	38.45
			H	13.89	3.46	-2.97	14.38	38.45
	846.5	20625	V	13.71	3.47	-2.99	14.19	38.45
			H	16.26	3.46	-2.99	16.73	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	13.57	3.46	-2.95	14.08	38.45
			H	15.45	3.46	-2.95	15.96	38.45
	836.5	20525	V	12.07	3.46	-2.98	12.56	38.45
			H	14.53	3.46	-2.98	15.01	38.45
	846.5	20625	V	10.70	3.47	-3.00	11.16	38.45
			H	13.03	3.47	-3.00	13.49	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: 10M QPSK RB: 1,0	829.0	20450	V	12.63	3.45	-2.94	13.15	38.45
			H	13.84	3.46	-2.94	14.36	38.45
	836.5	20525	V	11.46	3.46	-2.96	11.95	38.45
			H	14.07	3.46	-2.96	14.56	38.45
	844.0	20600	V	12.23	3.46	-2.98	12.71	38.45
			H	14.59	3.46	-2.98	15.07	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	10.97	3.46	-2.97	11.46	38.45
			H	12.73	3.46	-2.97	13.22	38.45
	836.5	20525	V	12.39	3.46	-2.99	12.86	38.45
			H	15.18	3.46	-2.98	15.66	38.45
	844.0	20600	V	10.44	3.47	-3.01	10.90	38.45
			H	12.87	3.47	-3.01	13.33	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	12.77	3.45	-2.94	13.29	38.45
			H	14.08	3.45	-2.94	14.60	38.45
	836.5	20525	V	11.66	3.46	-2.96	12.16	38.45
			H	14.30	3.46	-2.96	14.80	38.45
	844.0	20600	V	12.44	3.46	-2.98	12.92	38.45
			H	14.88	3.46	-2.98	15.36	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	11.24	3.46	-2.97	11.73	38.45
			H	12.98	3.46	-2.96	13.48	38.45
	836.5	20525	V	12.75	3.46	-2.99	13.23	38.45
			H	15.54	3.46	-2.99	16.01	38.45
	844.0	20600	V	10.68	3.47	-3.00	11.14	38.45
			H	13.13	3.47	-3.00	13.59	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	24.80	5.80	-5.34	25.26	33.01
			H	29.21	5.80	-5.34	29.67	33.01
	2535.0	21100	V	22.28	5.87	-5.39	22.77	33.01
			H	29.51	5.87	-5.38	30.00	33.01
	2567.5	21425	V	19.81	5.94	-5.44	20.31	33.01
			H	26.52	5.94	-5.44	27.02	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	24.32	5.81	-5.35	24.79	33.01
			H	29.57	5.81	-5.35	30.04	33.01
	2535.0	21100	V	21.17	5.88	-5.39	21.66	33.01
			H	29.50	5.88	-5.39	29.99	33.01
	2567.5	21425	V	18.44	5.95	-5.44	18.94	33.01
			H	26.92	5.95	-5.44	27.43	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	25.32	5.80	-5.34	25.78	33.01
			H	30.07	5.80	-5.34	30.53	33.01
	2535.0	21100	V	22.63	5.87	-5.38	23.11	33.01
			H	30.10	5.87	-5.38	30.58	33.01
	2567.5	21425	V	20.00	5.94	-5.44	20.50	33.01
			H	27.30	5.94	-5.44	27.81	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	24.71	5.81	-5.35	25.17	33.01
			H	29.60	5.81	-5.35	30.07	33.01
	2535.0	21100	V	21.32	5.88	-5.39	21.81	33.01
			H	29.89	5.88	-5.39	30.37	33.01
	2567.5	21425	V	19.14	5.95	-5.44	19.65	33.01
			H	27.02	5.95	-5.44	27.52	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 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	25.17	5.80	-5.34	25.63	33.01
			H	29.10	5.80	-5.34	29.56	33.01
	2535.0	21100	V	23.49	5.87	-5.38	23.98	33.01
			H	28.66	5.87	-5.38	29.14	33.01
	2565.0	21400	V	20.44	5.93	-5.43	20.94	33.01
H			27.36	5.93	-5.43	27.86	33.01	
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	21.90	5.82	-5.35	22.37	33.01
			H	28.57	5.82	-5.35	29.04	33.01
	2535.0	21100	V	20.71	5.88	-5.40	21.19	33.01
			H	28.57	5.89	-5.40	29.06	33.01
	2565.0	21400	V	19.10	5.95	-5.44	19.61	33.01
H			26.21	5.95	-5.44	26.72	33.01	
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	25.31	5.80	-5.34	25.77	33.01
			H	29.98	5.80	-5.34	30.43	33.01
	2535.0	21100	V	23.92	5.87	-5.38	24.40	33.01
			H	29.88	5.87	-5.38	30.37	33.01
	2565.0	21400	V	20.68	5.93	-5.43	21.18	33.01
H			27.96	5.93	-5.43	28.46	33.01	
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	22.37	5.82	-5.35	22.84	33.01
			H	29.59	5.82	-5.35	30.06	33.01
	2535.0	21100	V	20.90	5.88	-5.40	21.39	33.01
			H	28.86	5.88	-5.40	29.35	33.01
	2565.0	21400	V	19.21	5.95	-5.44	19.71	33.01
H			26.82	5.95	-5.44	27.33	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 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	26.56	5.80	-5.34	27.02	33.01
			H	28.67	5.80	-5.34	29.13	33.01
	2535.0	21100	V	25.48	5.86	-5.38	25.96	33.01
			H	28.45	5.86	-5.38	28.93	33.01
	2562.5	21375	V	23.43	5.92	-5.42	23.93	33.01
			H	26.90	5.92	-5.42	27.40	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	25.37	5.83	-5.36	25.84	33.01
			H	28.12	5.83	-5.36	28.60	33.01
	2535.0	21100	V	25.19	5.89	-5.40	25.68	33.01
			H	27.59	5.89	-5.40	28.08	33.01
	2562.5	21375	V	24.96	5.95	-5.44	25.47	33.01
			H	25.96	5.95	-5.44	26.47	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	25.57	5.80	-5.34	26.03	33.01
			H	29.71	5.80	-5.34	30.17	33.01
	2535.0	21100	V	26.41	5.86	-5.38	26.89	33.01
			H	28.96	5.86	-5.38	29.44	33.01
	2562.5	21375	V	24.26	5.92	-5.42	24.76	33.01
			H	27.63	5.92	-5.42	28.13	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	26.49	5.83	-5.36	26.96	33.01
			H	29.25	5.83	-5.36	29.72	33.01
	2535.0	21100	V	26.10	5.89	-5.40	26.59	33.01
			H	28.56	5.89	-5.40	29.05	33.01
	2562.5	21375	V	21.64	5.95	-5.44	22.15	33.01
			H	26.74	5.95	-5.44	27.25	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 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	24.03	5.80	-5.34	24.49	33.01
			H	28.54	5.80	-5.34	29.00	33.01
	2535.0	21100	V	24.68	5.86	-5.38	25.16	33.01
			H	27.53	5.86	-5.37	28.02	33.01
	2560.0	21350	V	21.31	5.91	-5.41	21.81	33.01
			H	26.74	5.91	-5.41	27.24	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	23.10	5.84	-5.36	23.58	33.01
			H	27.59	5.84	-5.36	28.07	33.01
	2535.0	21100	V	19.09	5.89	-5.40	19.58	33.01
			H	27.56	5.89	-5.40	28.05	33.01
	2560.0	21350	V	19.15	5.95	-5.44	19.66	33.01
			H	26.12	5.95	-5.44	26.62	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	25.17	5.80	-5.34	25.63	33.01
			H	29.69	5.80	-5.34	30.15	33.01
	2535.0	21100	V	25.61	5.86	-5.37	26.09	33.01
			H	28.47	5.85	-5.37	28.95	33.01
	2560.0	21350	V	22.14	5.91	-5.41	22.64	33.01
			H	27.65	5.91	-5.41	28.14	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	24.19	5.84	-5.36	24.67	33.01
			H	28.68	5.84	-5.36	29.16	33.01
	2535.0	21100	V	20.07	5.89	-5.40	20.56	33.01
			H	28.49	5.90	-5.40	28.98	33.01
	2560.0	21350	V	19.79	5.95	-5.44	20.30	33.01
			H	26.86	5.95	-5.44	27.37	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	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	9.84	3.39	-2.61	10.62	34.77
			H	1.89	3.39	-2.61	2.67	34.77
	707.5	23095	V	12.49	3.37	-2.60	13.26	34.77
			H	6.10	3.37	-2.60	6.87	34.77
	715.3	23173	V	10.62	3.35	-2.61	11.36	34.77
			H	4.77	3.35	-2.61	5.51	34.77
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	10.14	3.39	-2.61	10.92	34.77
			H	2.35	3.38	-2.61	3.13	34.77
	707.5	23095	V	11.64	3.37	-2.60	12.41	34.77
			H	5.17	3.37	-2.60	5.93	34.77
	715.3	23173	V	11.43	3.35	-2.61	12.17	34.77
			H	5.45	3.35	-2.61	6.19	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	9.87	3.39	-2.61	10.64	34.77
			H	1.91	3.39	-2.61	2.69	34.77
	707.5	23095	V	12.86	3.37	-2.60	13.62	34.77
			H	6.44	3.37	-2.60	7.21	34.77
	715.3	23173	V	10.76	3.35	-2.61	11.50	34.77
			H	4.94	3.35	-2.61	5.68	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	10.24	3.39	-2.61	11.02	34.77
			H	2.41	3.39	-2.61	3.18	34.77
	707.5	23095	V	11.92	3.37	-2.60	12.69	34.77
			H	5.61	3.37	-2.60	6.38	34.77
	715.3	23173	V	11.42	3.35	-2.61	12.16	34.77
			H	5.74	3.35	-2.61	6.48	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 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	9.74	3.39	-2.61	10.52	34.77
			H	1.76	3.39	-2.61	2.54	34.77
	707.5	23095	V	13.12	3.37	-2.60	13.88	34.77
			H	6.25	3.37	-2.60	7.02	34.77
	714.5	23165	V	9.56	3.36	-2.60	10.31	34.77
			H	3.48	3.36	-2.60	4.23	34.77
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	10.83	3.38	-2.61	11.60	34.77
			H	3.48	3.38	-2.61	4.25	34.77
	707.5	23095	V	11.13	3.37	-2.60	11.90	34.77
			H	4.53	3.37	-2.60	5.30	34.77
	714.5	23165	V	11.32	3.35	-2.61	12.06	34.77
			H	5.46	3.35	-2.61	6.20	34.77
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	9.77	3.39	-2.61	10.55	34.77
			H	1.78	3.38	-2.61	2.56	34.77
	707.5	23095	V	13.67	3.37	-2.60	14.44	34.77
			H	6.83	3.37	-2.60	7.60	34.77
	714.5	23165	V	9.65	3.36	-2.61	10.40	34.77
			H	3.56	3.36	-2.60	4.31	34.77
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	11.03	3.38	-2.61	11.80	34.77
			H	3.63	3.38	-2.61	4.40	34.77
	707.5	23095	V	11.36	3.37	-2.60	12.12	34.77
			H	4.77	3.37	-2.60	5.53	34.77
	714.5	23165	V	11.65	3.35	-2.61	12.39	34.77
			H	5.74	3.35	-2.61	6.48	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 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	9.84	3.39	-2.61	10.62	34.77
			H	1.68	3.39	-2.61	2.45	34.77
	707.5	23095	V	12.99	3.37	-2.60	13.76	34.77
			H	5.97	3.37	-2.60	6.74	34.77
	713.5	23155	V	9.28	3.36	-2.60	10.04	34.77
			H	2.95	3.36	-2.60	3.71	34.77
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	12.14	3.38	-2.61	12.91	34.77
			H	5.04	3.38	-2.61	5.81	34.77
	707.5	23095	V	10.20	3.36	-2.60	10.97	34.77
			H	3.76	3.36	-2.60	4.53	34.77
	713.5	23155	V	11.03	3.35	-2.61	11.77	34.77
			H	5.17	3.35	-2.61	5.91	34.77
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	9.82	3.38	-2.61	10.60	34.77
			H	1.72	3.39	-2.61	2.50	34.77
	707.5	23095	V	13.64	3.37	-2.60	14.41	34.77
			H	6.58	3.37	-2.60	7.35	34.77
	713.5	23155	V	9.37	3.36	-2.60	10.13	34.77
			H	3.00	3.36	-2.60	3.76	34.77
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	12.58	3.38	-2.61	13.35	34.77
			H	5.40	3.38	-2.61	6.17	34.77
	707.5	23095	V	10.40	3.36	-2.60	11.16	34.77
			H	3.83	3.36	-2.60	4.60	34.77
	713.5	23155	V	11.27	3.35	-2.61	12.01	34.77
			H	5.40	3.35	-2.61	6.14	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 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	9.91	3.39	-2.61	10.68	34.77
			H	1.76	3.39	-2.61	2.54	34.77
	707.5	23095	V	11.83	3.38	-2.61	12.60	34.77
			H	4.43	3.38	-2.61	5.21	34.77
	711.0	23130	V	12.93	3.37	-2.60	13.70	34.77
			H	6.10	3.37	-2.60	6.86	34.77
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	11.43	3.37	-2.60	12.19	34.77
			H	4.69	3.37	-2.60	5.46	34.77
	707.5	23095	V	9.13	3.36	-2.60	9.89	34.77
			H	2.74	3.36	-2.60	3.49	34.77
	711.0	23130	V	10.97	3.35	-2.61	11.71	34.77
			H	5.01	3.35	-2.61	5.75	34.77
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	9.90	3.39	-2.61	10.68	34.77
			H	1.75	3.38	-2.61	2.53	34.77
	707.5	23095	V	12.11	3.38	-2.61	12.88	34.77
			H	4.75	3.38	-2.61	5.52	34.77
	711.0	23130	V	13.37	3.37	-2.60	14.14	34.77
			H	6.46	3.37	-2.60	7.23	34.77
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	11.73	3.37	-2.60	12.50	34.77
			H	4.93	3.37	-2.60	5.70	34.77
	707.5	23095	V	9.25	3.36	-2.60	10.01	34.77
			H	2.98	3.36	-2.60	3.74	34.77
	711.0	23130	V	11.13	3.35	-2.61	11.87	34.77
			H	5.18	3.35	-2.61	5.92	34.77

Remark :

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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	14.11	3.37	-2.77	14.71	34.77
			H	8.46	3.37	-2.77	9.06	34.77
	782.0	23230	V	13.65	3.38	-2.78	14.25	34.77
			H	8.46	3.38	-2.78	9.06	34.77
	784.5	23255	V	11.44	3.38	-2.78	12.04	34.77
			H	6.62	3.39	-2.79	7.22	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	11.65	3.38	-2.78	12.25	34.77
			H	6.82	3.38	-2.78	7.42	34.77
	782.0	23230	V	11.39	3.39	-2.79	11.98	34.77
			H	6.93	3.39	-2.79	7.53	34.77
	784.5	23255	V	12.43	3.40	-2.80	13.03	34.77
			H	8.29	3.40	-2.80	8.89	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	14.21	3.37	-2.77	14.81	34.77
			H	8.71	3.37	-2.77	9.32	34.77
	782.0	23230	V	14.09	3.38	-2.78	14.69	34.77
			H	8.93	3.38	-2.78	9.53	34.77
	784.5	23255	V	11.68	3.38	-2.79	12.28	34.77
			H	6.84	3.38	-2.79	7.44	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	12.07	3.38	-2.78	12.67	34.77
			H	7.25	3.38	-2.78	7.85	34.77
	782.0	23230	V	11.68	3.39	-2.79	12.28	34.77
			H	7.22	3.39	-2.79	7.82	34.77
	784.5	23255	V	12.93	3.40	-2.80	13.52	34.77
			H	8.80	3.40	-2.80	9.40	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	14.35	3.37	-2.77	14.95	34.77
			H	8.72	3.37	-2.77	9.33	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	12.78	3.40	-2.80	13.37	34.77
			H	8.59	3.40	-2.80	9.19	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	14.44	3.37	-2.77	15.05	34.77
			H	8.76	3.37	-2.77	9.36	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	12.94	3.40	-2.80	13.54	34.77
			H	8.64	3.40	-2.80	9.23	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	12.14	3.37	-2.60	12.91	34.77
			H	7.72	3.37	-2.60	8.49	34.77
	710.0	23790	V	11.67	3.37	-2.60	12.44	34.77
			H	7.57	3.37	-2.60	8.33	34.77
	713.5	23825	V	9.23	3.36	-2.60	9.99	34.77
			H	5.00	3.36	-2.60	5.76	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	10.89	3.37	-2.60	11.66	34.77
			H	6.61	3.37	-2.60	7.37	34.77
	710.0	23790	V	9.05	3.36	-2.60	9.81	34.77
			H	4.92	3.36	-2.60	5.68	34.77
	713.5	23825	V	11.06	3.35	-2.61	11.80	34.77
			H	7.07	3.35	-2.61	7.81	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	12.42	3.37	-2.60	13.19	34.77
			H	8.11	3.37	-2.60	8.88	34.77
	710.0	23790	V	12.03	3.37	-2.60	12.79	34.77
			H	7.92	3.37	-2.60	8.68	34.77
	713.5	23825	V	9.32	3.36	-2.60	10.08	34.77
			H	5.19	3.36	-2.60	5.95	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	11.11	3.37	-2.60	11.87	34.77
			H	6.97	3.37	-2.60	7.73	34.77
	710.0	23790	V	9.20	3.36	-2.60	9.96	34.77
			H	5.00	3.36	-2.60	5.75	34.77
	713.5	23825	V	11.31	3.35	-2.61	12.05	34.77
			H	7.28	3.35	-2.61	8.03	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	12.44	3.37	-2.60	13.20	34.77
			H	7.78	3.37	-2.60	8.55	34.77
	710.0	23790	V	12.71	3.37	-2.60	13.48	34.77
			H	8.29	3.37	-2.60	9.06	34.77
	711.0	23800	V	12.57	3.37	-2.60	13.34	34.77
			H	8.24	3.37	-2.60	9.01	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	9.44	3.36	-2.61	10.18	34.77
			H	5.39	3.36	-2.61	6.14	34.77
	710.0	23790	V	10.04	3.35	-2.61	10.79	34.77
			H	6.14	3.35	-2.61	6.89	34.77
	711.0	23800	V	10.87	3.35	-2.61	11.61	34.77
			H	6.85	3.35	-2.61	7.60	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	12.61	3.37	-2.60	13.37	34.77
			H	8.15	3.37	-2.60	8.92	34.77
	710.0	23790	V	13.26	3.37	-2.60	14.03	34.77
			H	8.87	3.37	-2.60	9.64	34.77
	711.0	23800	V	12.97	3.37	-2.60	13.73	34.77
			H	8.67	3.37	-2.60	9.44	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	9.54	3.36	-2.61	10.29	34.77
			H	5.50	3.36	-2.61	6.25	34.77
	710.0	23790	V	10.17	3.35	-2.61	10.92	34.77
			H	6.20	3.35	-2.61	6.94	34.77
	711.0	23800	V	11.02	3.35	-2.61	11.76	34.77
			H	7.06	3.35	-2.61	7.80	34.77

Remark :

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

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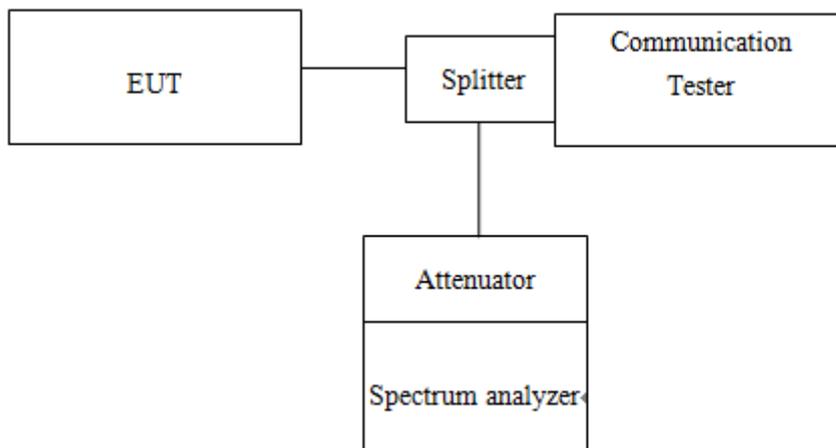
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7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. 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.

7.2. Test Set-up



7.3. Measurement Procedure

99% & 26dB Bandwidth

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 20dB BW is arrow-mark

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7.4. 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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7.5. Measurement Result
99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	245.05	251.41	247.42
836.60	190	242.53	245.45	256.91
848.80	251	250.52	250.18	249.69

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	249.94	240.51	242.65
1880.00	661	253.31	243.21	245.17
1909.80	810	245.28	252.25	246.32

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.2064	4.2274	4.2129
1880.00	9400	4.1934	4.2343	4.1986
1909.80	9538	4.2056	4.2318	4.1987

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	4.2134	4.2142	4.2055
1880.0	9400	4.2028	4.1997	4.2184
1907.6	9538	4.2104	4.2036	4.2137

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Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1850	4.1909	4.1957
836.60	4183	4.2372	4.2230	4.2316
846.60	4233	4.1965	4.2351	4.2102

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.1002	1.1014	1851.5	18615	2.7083	2.7122
1880.0	18900	1.0944	1.0984	1880.0	18900	2.7102	2.7151
1909.3	19193	1.1003	1.1011	1908.5	19185	2.7099	2.7074

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	4.5214	4.5245	1855.0	18650	8.9983	8.9829
1880.0	18900	4.5416	4.4956	1880.0	18900	8.9954	8.9729
1907.5	19175	4.5136	4.5088	1905.0	19150	9.0160	8.9677

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LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	13.4829	13.4962	1860.0	18700	17.9375	17.9572
1880.0	18900	13.3860	13.4768	1880.0	18900	17.9377	17.9190
1902.5	19125	13.4615	13.4861	1900.0	19100	17.9817	17.9056

LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.0981	1.1009	1711.5	19965	2.7149	2.7079
1732.5	20175	1.0933	1.0974	1732.5	20175	2.7098	2.6930
1754.3	20393	1.0998	1.0982	1753.5	20385	2.7185	2.7026

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	4.5111	4.5129	1715.0	20000	8.9977	8.9667
1732.5	20175	4.5123	4.5158	1732.5	20175	8.9635	8.9743
1752.5	20375	4.5163	4.5090	1750.0	20350	9.0077	8.9710

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LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	13.4466	13.4640	1720.0	20050	17.9208	17.9718
1732.5	20175	13.4788	13.4831	1732.5	20175	17.9676	17.9720
1747.5	20325	13.4690	13.4555	1745.0	20300	17.9009	17.9319

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.0965	1.1047	825.5	20415	2.7035	2.7057
836.5	20525	1.0924	1.0982	836.5	20525	2.7184	2.7107
848.3	20643	1.0909	1.0983	847.5	20635	2.7472	2.7053

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
826.5	20425	4.5398	4.5165	829.0	20450	8.9918	8.9662
836.5	20525	4.5350	4.5149	836.5	20525	8.9865	8.9960
846.5	20625	4.4869	4.5147	844.0	20600	8.9878	8.9847

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2502.5	20775	4.5114	4.5070	2505.0	20800	9.0131	8.9765
2535.0	21100	4.5080	4.4921	2535.0	21100	9.0070	8.9851
2567.5	21425	4.5064	4.5005	2565.0	21400	8.9881	8.9285

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2507.5	20825	13.4513	13.4655	2510.0	20850	17.9339	17.9375
2535.0	21100	13.4720	13.4942	2535.0	21100	17.9786	17.9897
2562.5	21375	13.4590	13.4270	2560.0	21350	17.8732	17.8878

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
699.7	23017	1.1017	1.1019	700.5	23025	2.7018	2.7141
707.5	23095	1.0971	1.0939	707.5	23095	2.7041	2.7121
715.3	23173	1.0991	1.1001	714.5	23165	2.7129	2.7063

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LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
701.5	23035	4.5247	4.5018	704.0	23060	8.9824	8.9682
707.5	23095	4.5125	4.5144	707.5	23095	9.0008	8.9696
713.5	23155	4.5045	4.5105	711.0	23130	9.0090	8.9813

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
779.5	23205	4.5303	4.5266	23230	782	9.0239	9.0136
782.0	23230	4.5018	4.5094				
782.0	23255	4.5187	4.5259				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
706.5	23755	4.5267	4.5199	709.0	23780	9.0261	8.9905
710.0	23790	4.5011	4.5144	710.0	23790	8.9908	9.0081
713.5	23825	4.5126	4.5015	711.0	23780	9.0164	8.9865

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26dB Bandwidth

Frequency (MHz)	CH	26dB Bandwidth (KHz)	26dB Bandwidth (KHz)	26dB Bandwidth (KHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	310.8	323.3	311.8
836.60	190	314.8	309.1	325.3
848.80	251	312.8	315.4	324.1

Frequency (MHz)	CH	26dB Bandwidth (KHz)	26dB Bandwidth (KHz)	26dB Bandwidth (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	316.9	301.6	300.3
1880.00	661	325.0	308.6	317.9
1909.80	810	315.1	321.9	319.7

Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.831	4.809	4.867
1880.00	9400	4.839	4.827	4.836
1909.80	9538	4.811	4.797	4.867

Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	4.858	4.705	4.662
1880.0	9400	4.822	4.627	4.656
1907.6	9538	4.895	4.653	4.724

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Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.796	4.778	4.815
836.60	4183	4.777	4.849	4.817
846.60	4233	4.796	4.821	4.815

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.284	1.274	1851.5	18615	2.979	2.965
1880.0	18900	1.265	1.262	1880.0	18900	2.972	2.949
1909.3	19193	1.270	1.266	1908.5	19185	2.963	2.977

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	5.068	4.987	1855.0	18650	9.803	9.819
1880.0	18900	4.753	4.953	1880.0	18900	9.894	9.834
1907.5	19175	5.005	5.049	1905.0	19150	9.838	9.859

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LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	14.857	14.666	1860.0	18700	19.598	19.503
1880.0	18900	14.431	14.602	1880.0	18900	19.433	19.108
1902.5	19125	14.576	14.751	1900.0	19100	19.426	19.438

LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.264	1.261	1711.5	19965	2.964	2.983
1732.5	20175	1.258	1.267	1732.5	20175	2.970	2.984
1754.3	20393	1.265	1.270	1753.5	20385	2.973	2.964

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	5.084	5.053	1715.0	20000	9.721	9.751
1732.5	20175	5.023	4.972	1732.5	20175	9.787	9.787
1752.5	20375	5.022	4.985	1750.0	20350	9.891	9.818

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LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	14.666	14.769	1720.0	20050	19.262	19.601
1732.5	20175	14.728	14.852	1732.5	20175	19.444	19.309
1747.5	20325	14.684	14.658	1745.0	20300	19.167	19.332

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.268	1.292	825.5	20415	2.977	2.969
836.5	20525	1.262	1.268	836.5	20525	2.959	2.940
848.3	20643	1.261	1.274	847.5	20635	2.923	2.959

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
826.5	20425	5.049	5.041	829.0	20450	9.904	9.821
836.5	20525	5.030	5.020	836.5	20525	9.671	9.879
846.5	20625	4.847	5.013	844.0	20600	9.832	9.778

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2502.5	20775	5.071	5.051	2505.0	20800	9.889	9.848
2535.0	21100	5.017	4.903	2535.0	21100	9.889	9.848
2567.5	21425	5.020	4.903	2565.0	21400	9.538	9.393

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2507.5	20825	14.684	14.682	2510.0	20850	19.401	19.418
2535.0	21100	14.459	14.367	2535.0	21100	19.514	19.179
2562.5	21375	14.669	14.405	2560.0	21350	19.126	19.211

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
699.7	23017	1.274	1.281	700.5	23025	2.970	2.978
707.5	23095	1.252	1.281	707.5	23095	2.950	2.972
715.3	23173	1.262	1.283	714.5	23165	2.924	2.954

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LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
701.5	23035	5.068	5.014	704.0	23060	9.819	9.874
707.5	23095	5.006	5.079	707.5	23095	9.789	9.848
713.5	23155	5.092	5.010	711.0	23130	9.932	9.978

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
779.5	23205	5.006	5.080	23230	782	9.811	9.893
782.0	23230	5.048	4.931				
782.0	23255	4.996	5.020				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
706.5	23755	5.023	4.953	709.0	23780	9.994	9.810
710.0	23790	5.026	5.025	710.0	23790	9.864	9.824
713.5	23825	4.958	4.962	711.0	23780	9.850	9.813

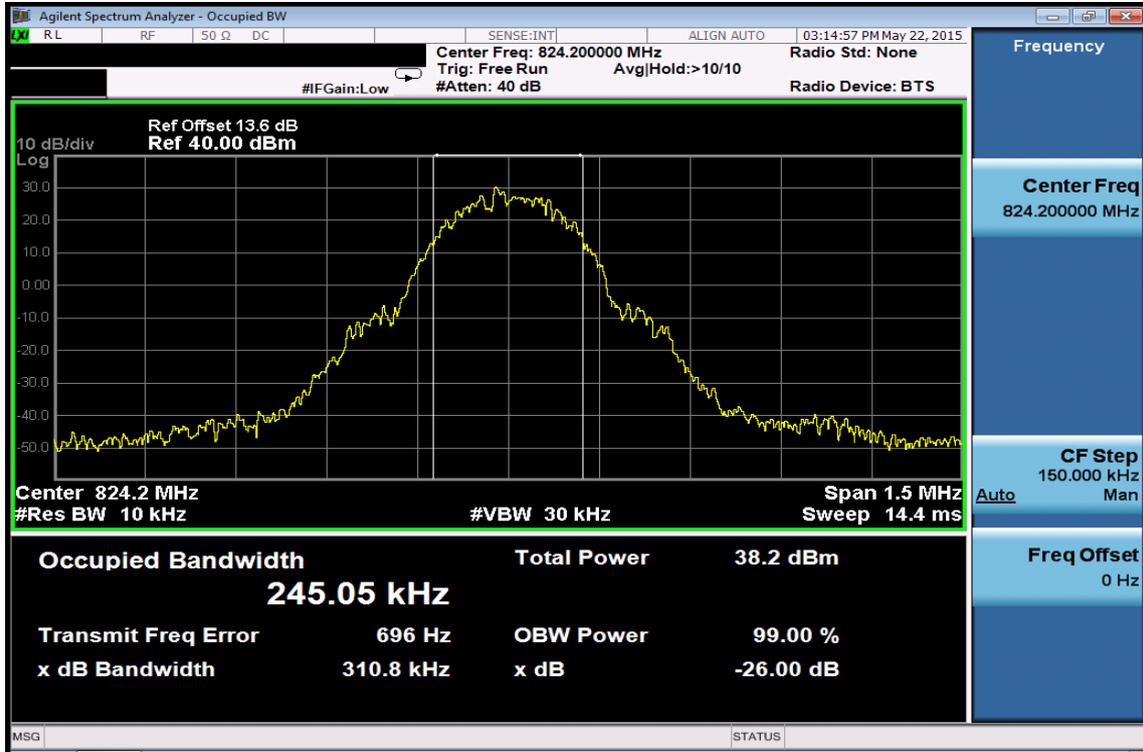
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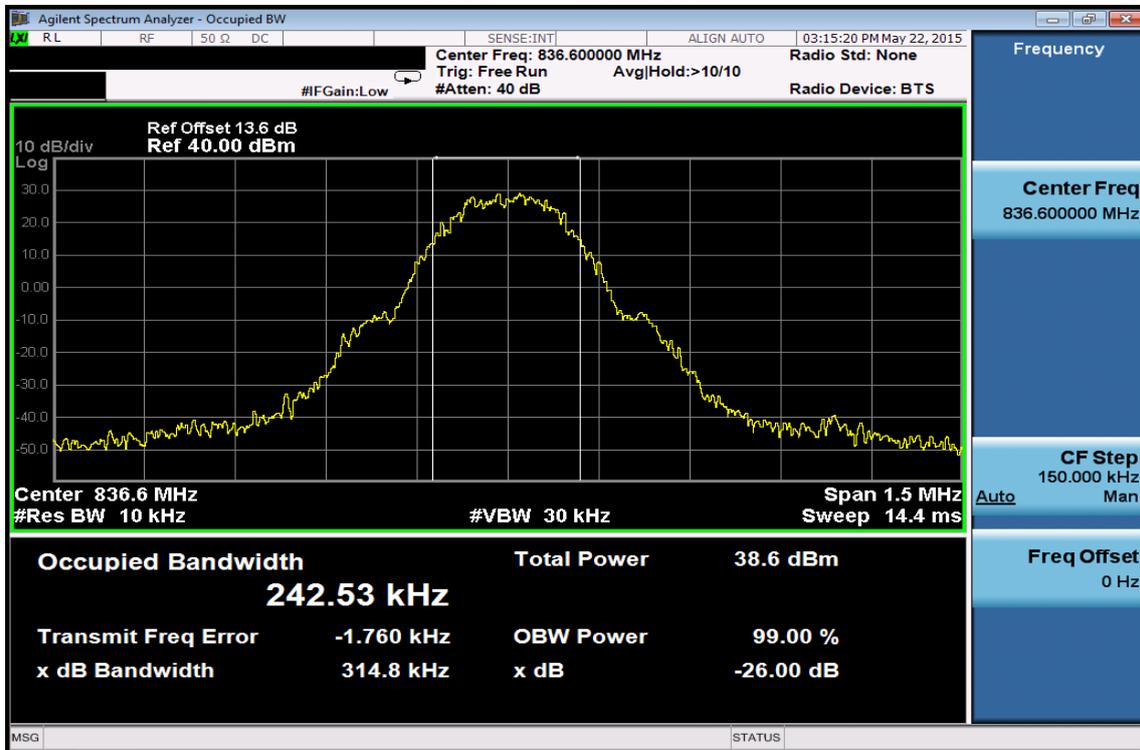
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99% & 26dB Bandwidth Test Data

GSM 850 Channel Low



GSM 850 Channel Mid



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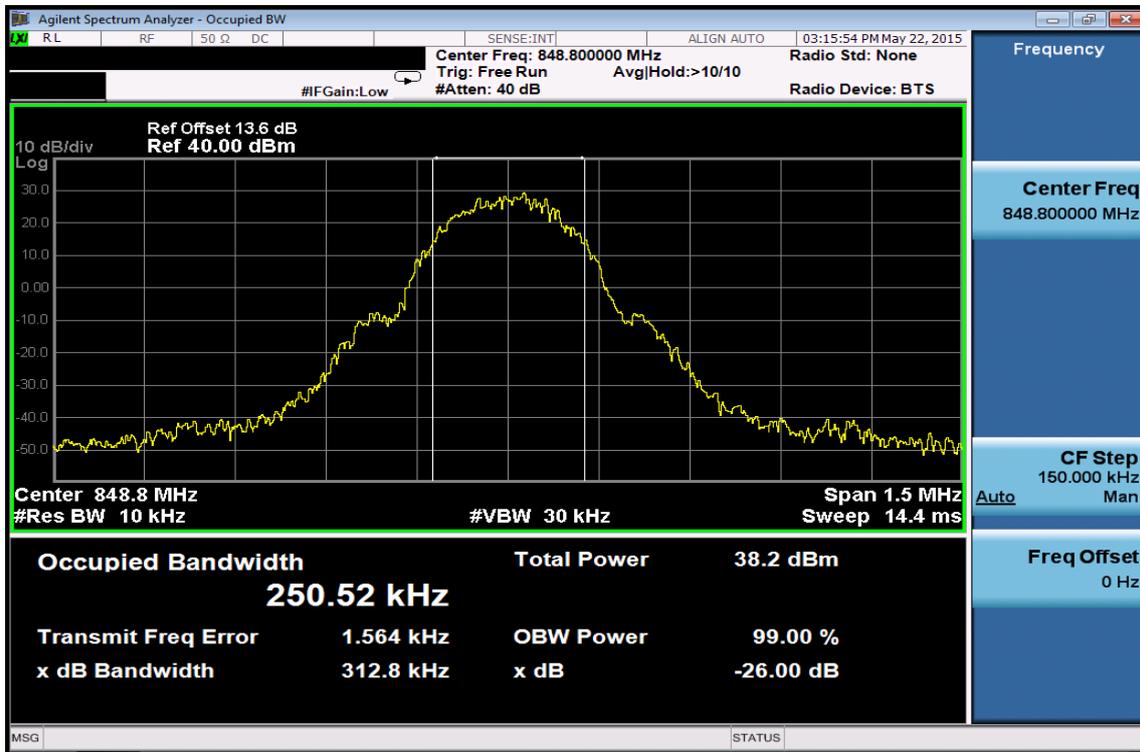
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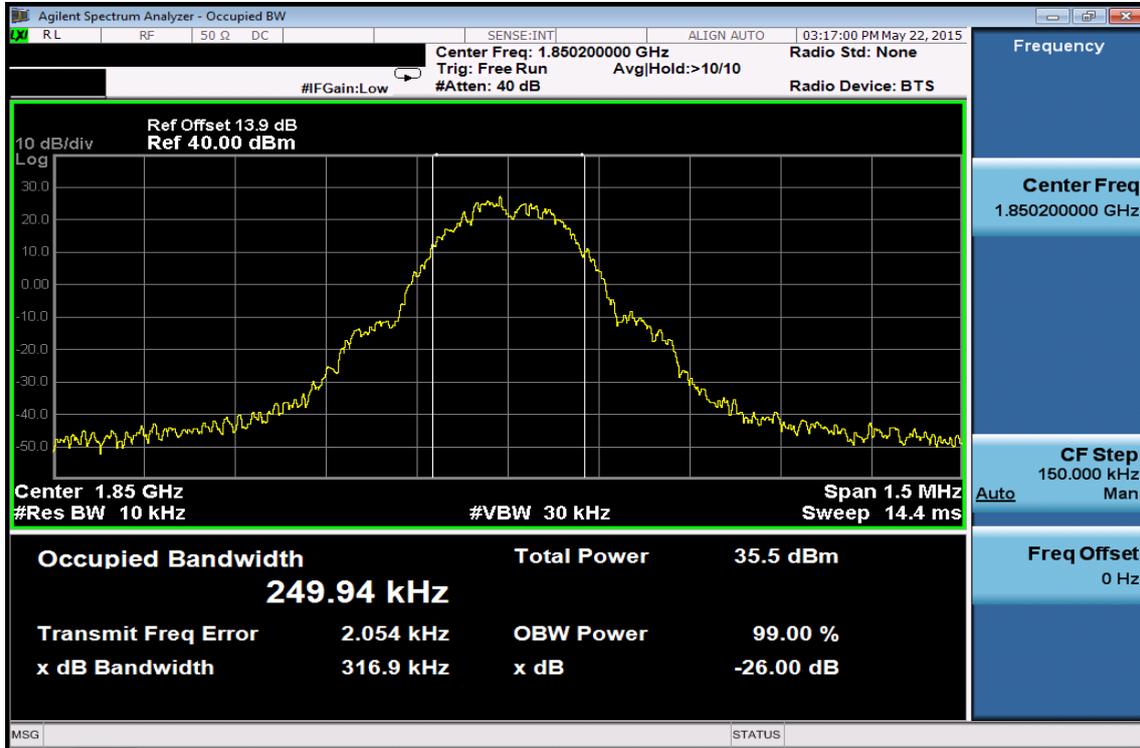
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GSM 850 Channel High



GSM 1900 Channel Low



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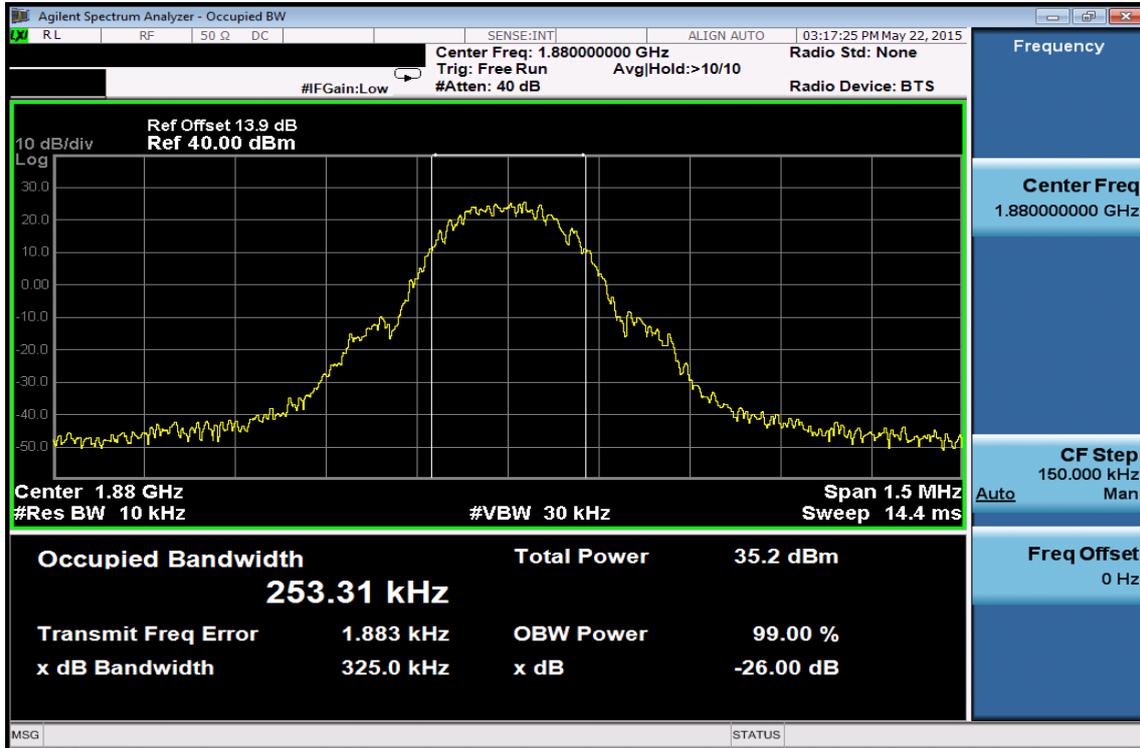
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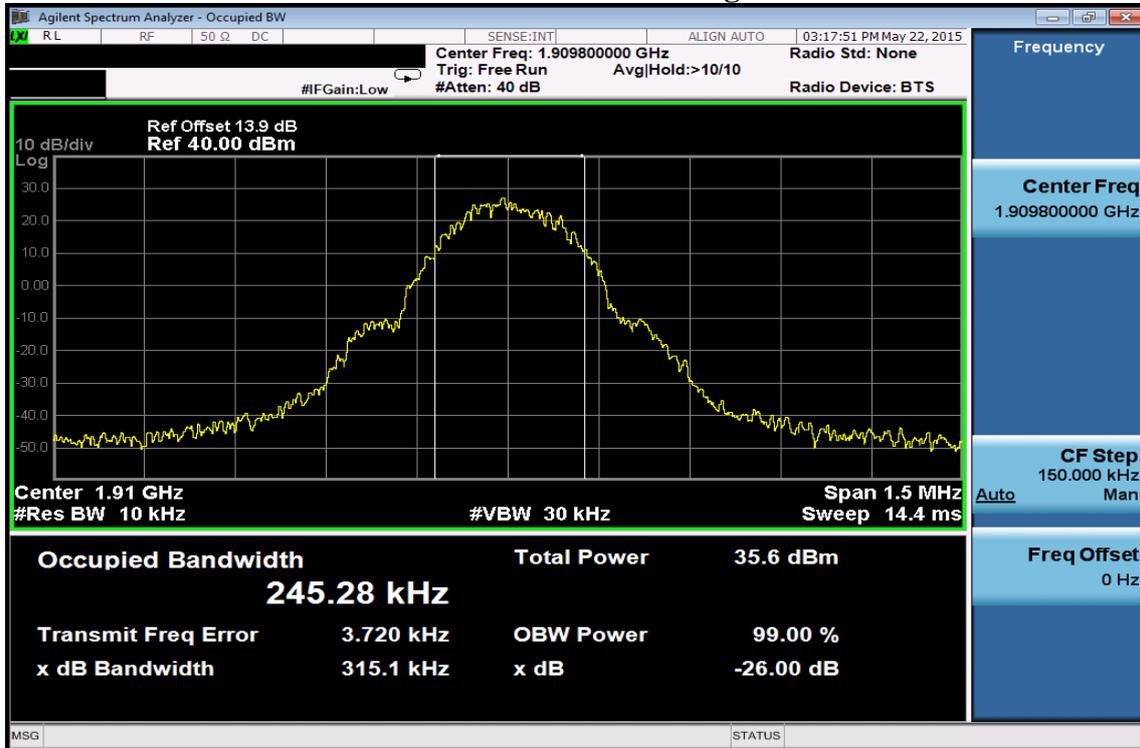
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GSM 1900 Channel Mid



GSM 1900 Channel High



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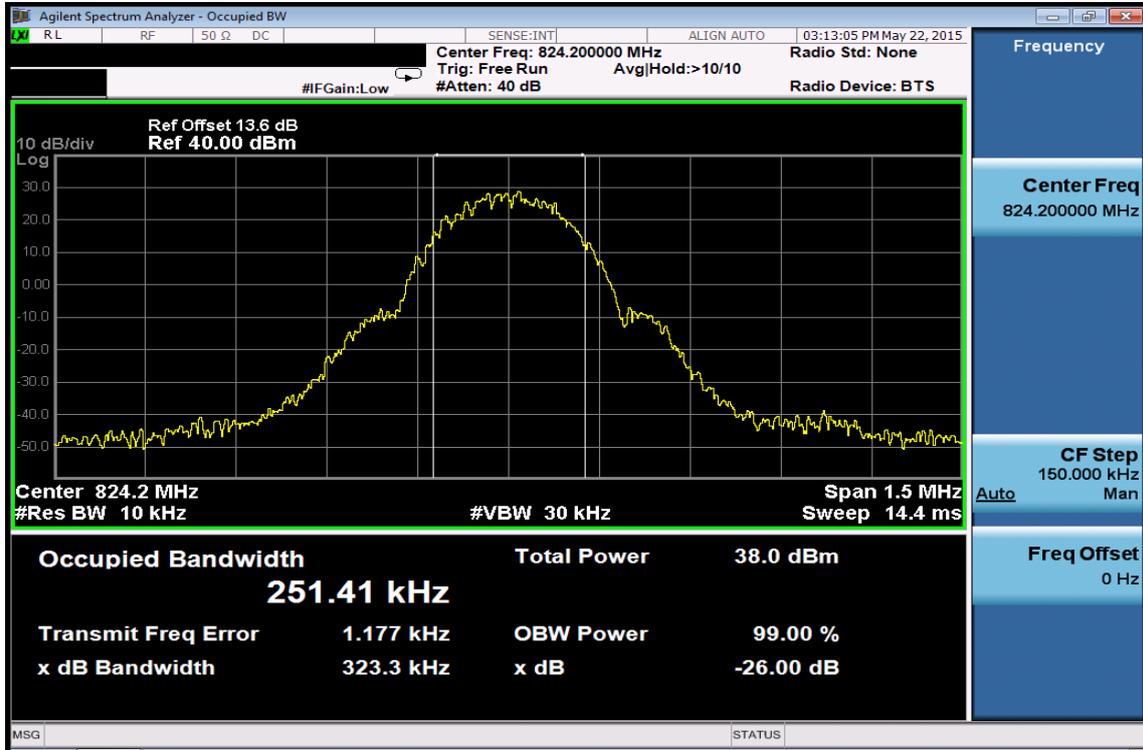
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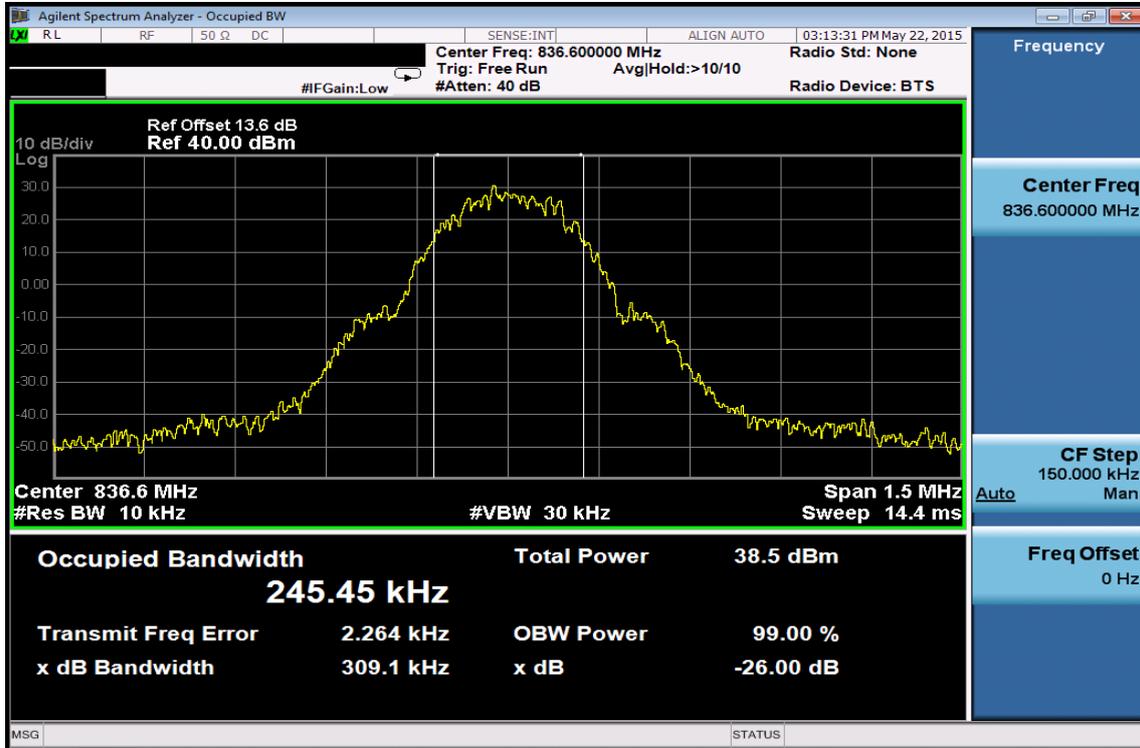
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GPRS 850 Channel Low



GPRS 850 Channel Mid



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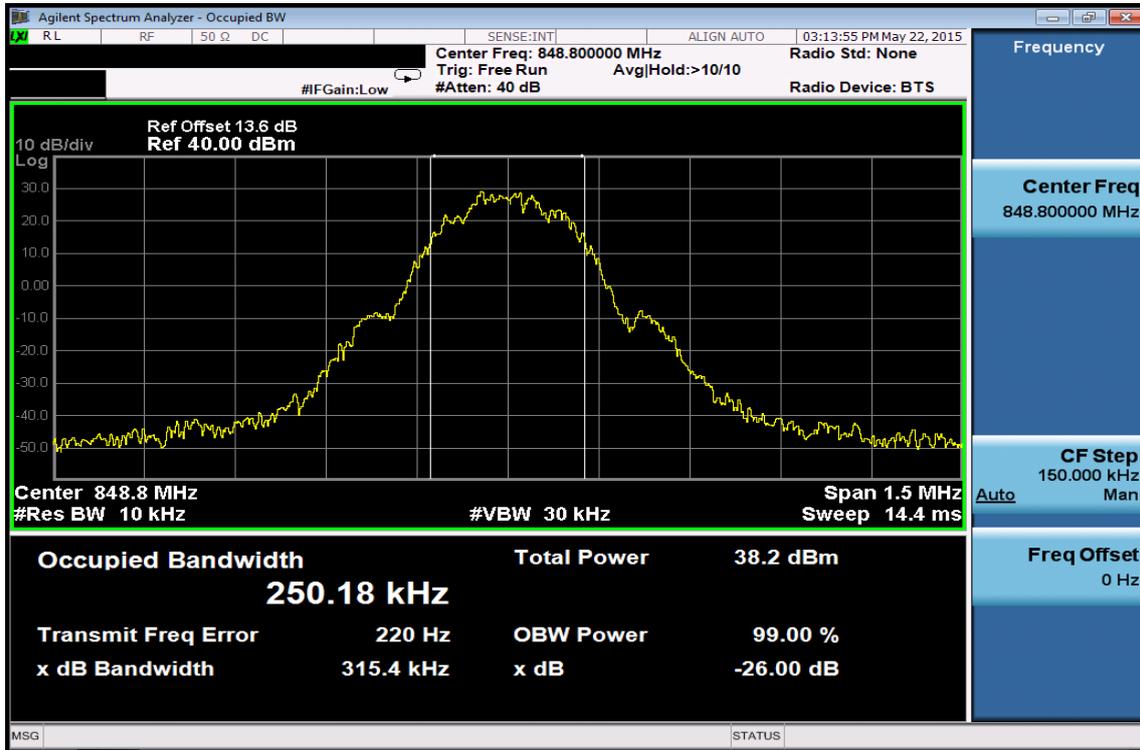
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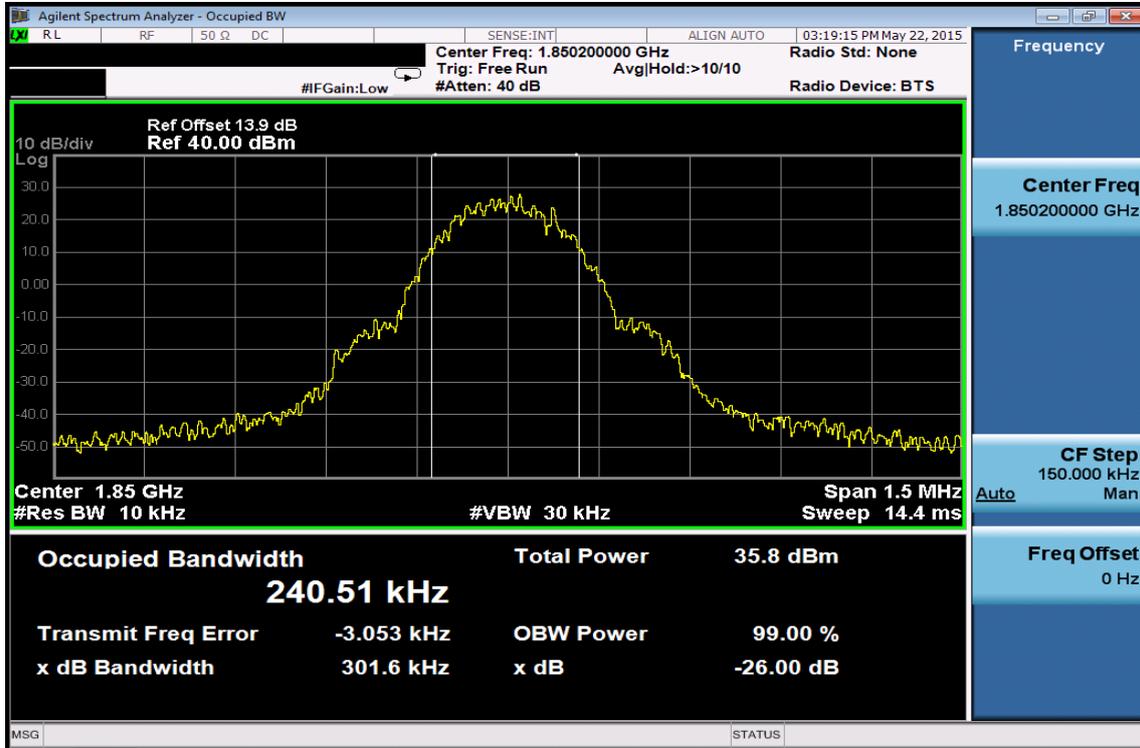
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GPRS 850 Channel High



GPRS 1900 Channel Low



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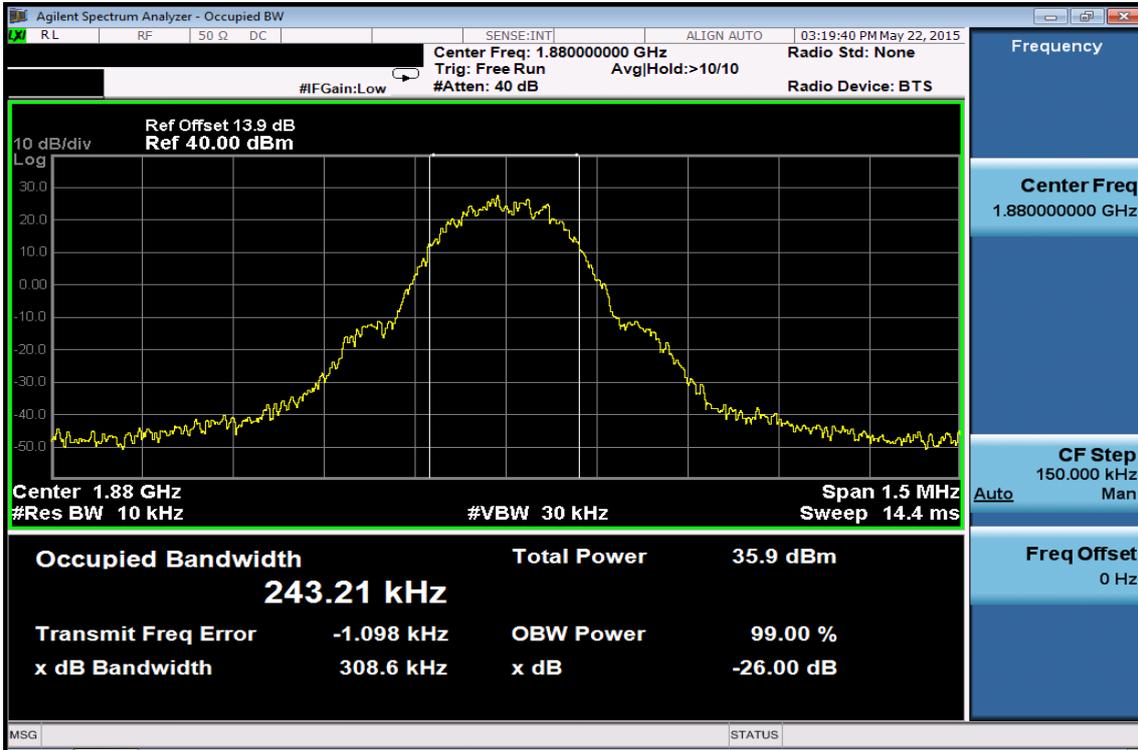
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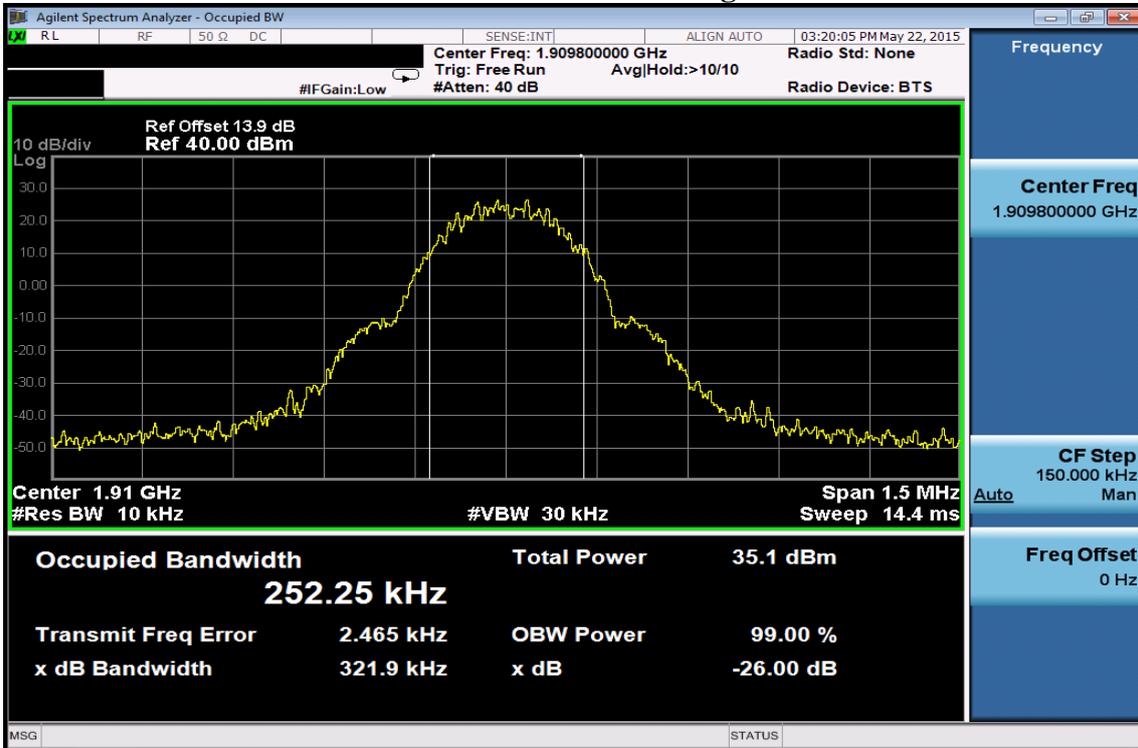
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GPRS 1900 Channel Mid



GPRS 1900 Channel High

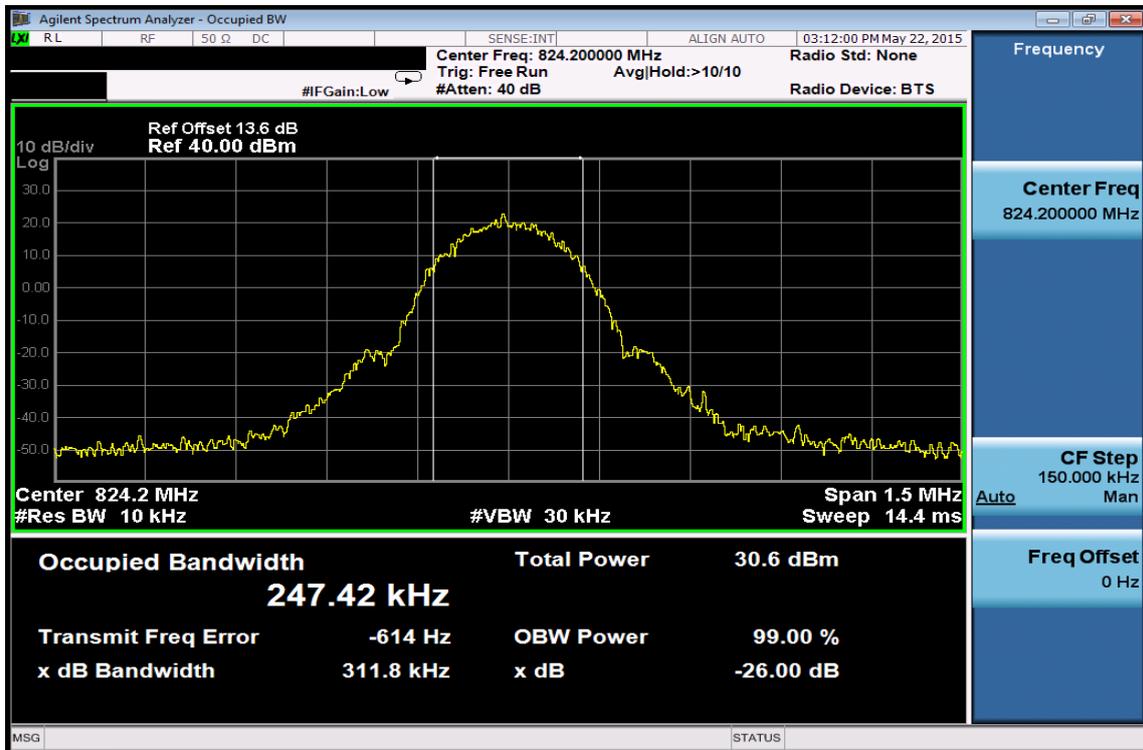


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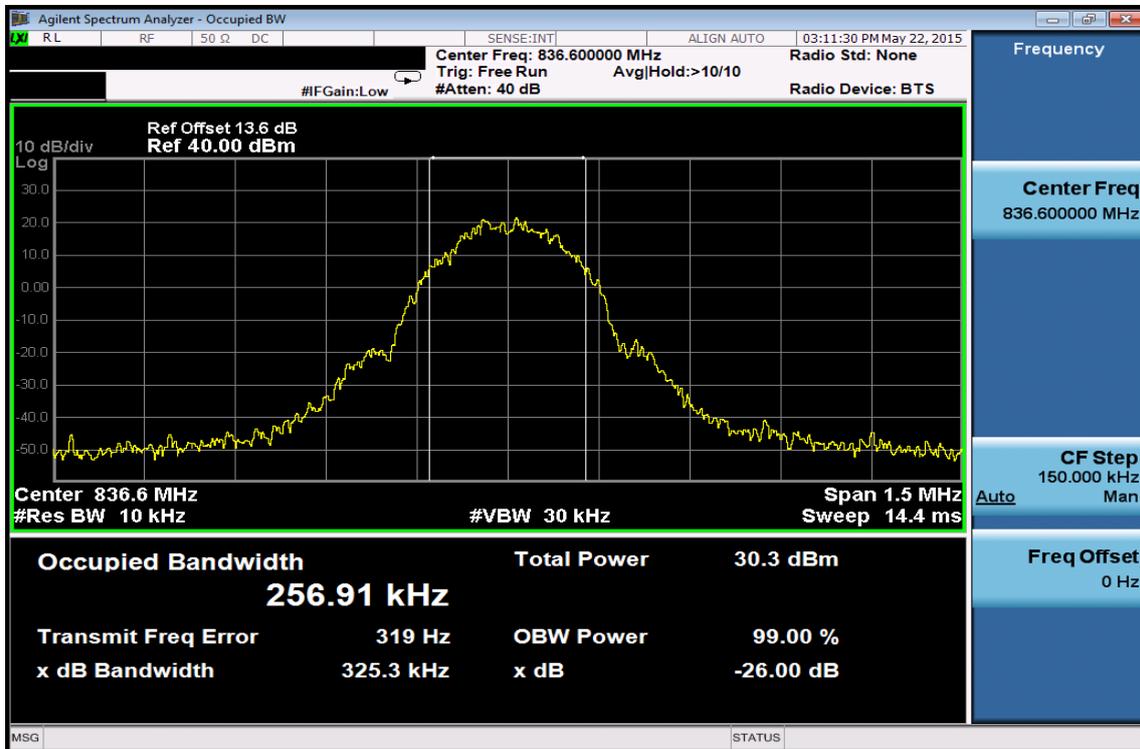
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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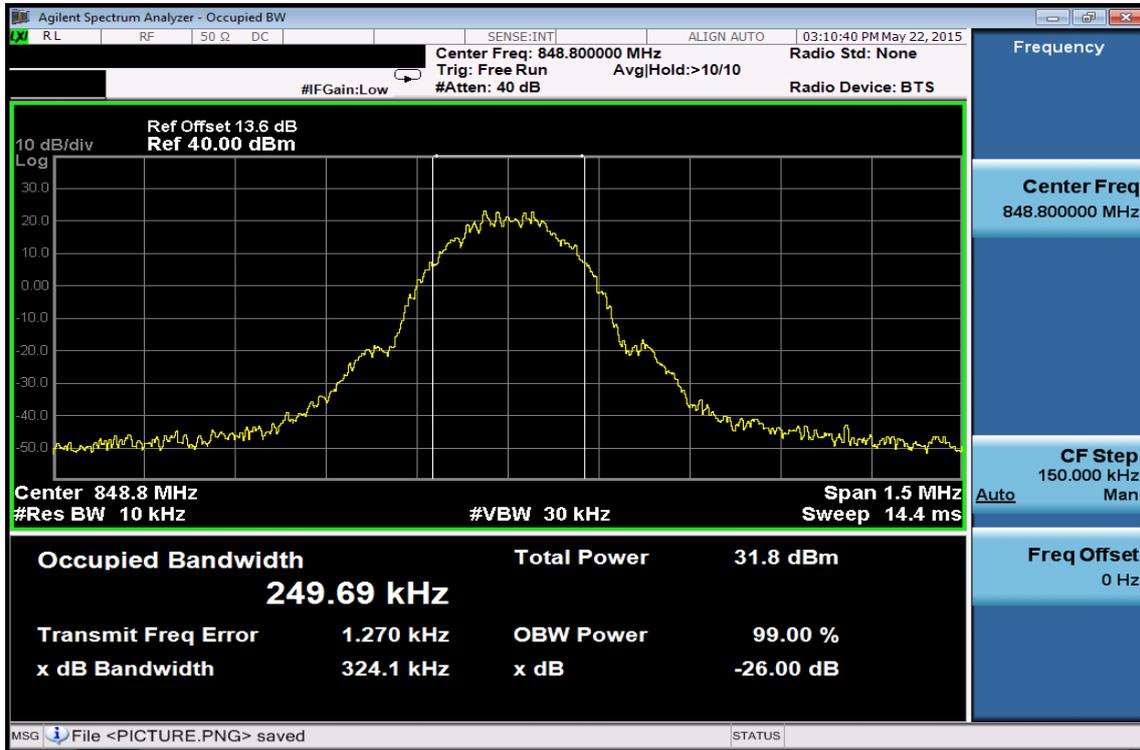
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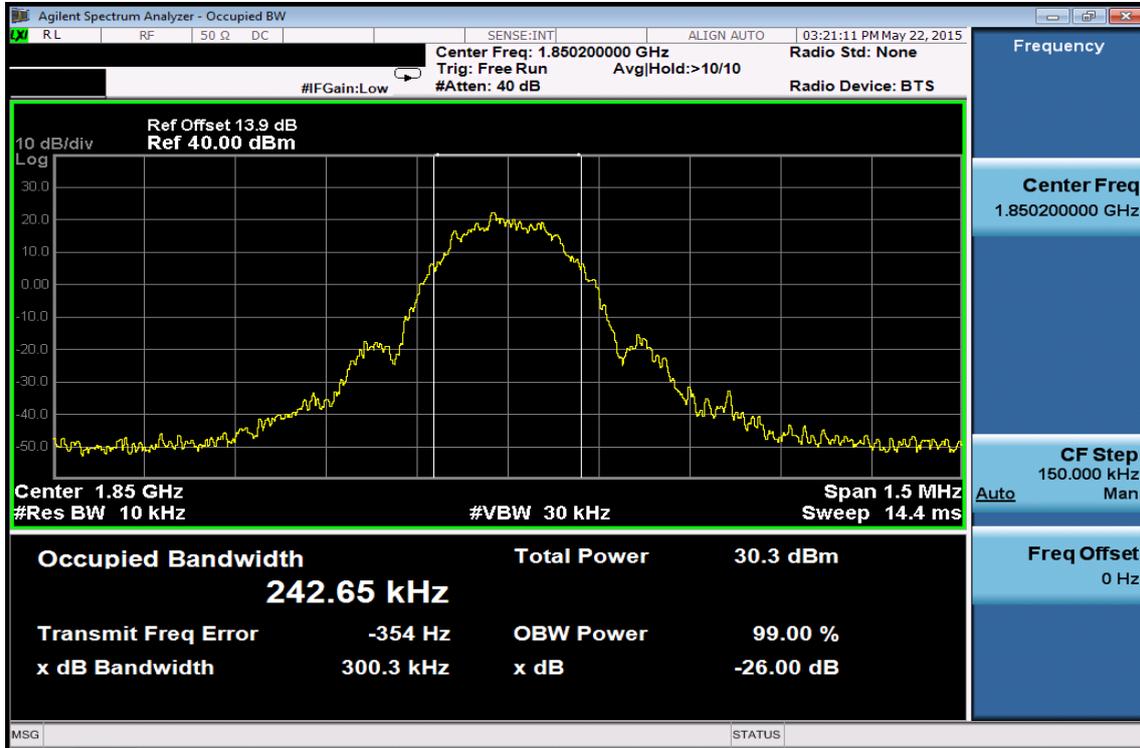
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EDGE 850 Channel High



EDGE 1900 Channel Low



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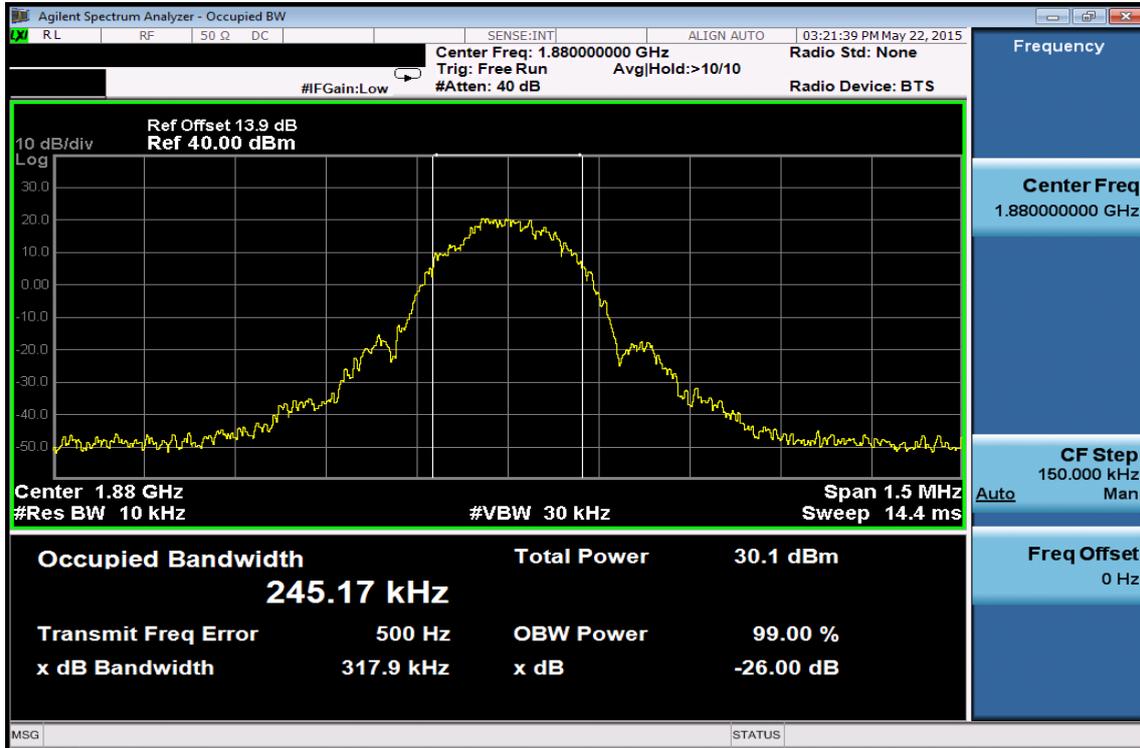
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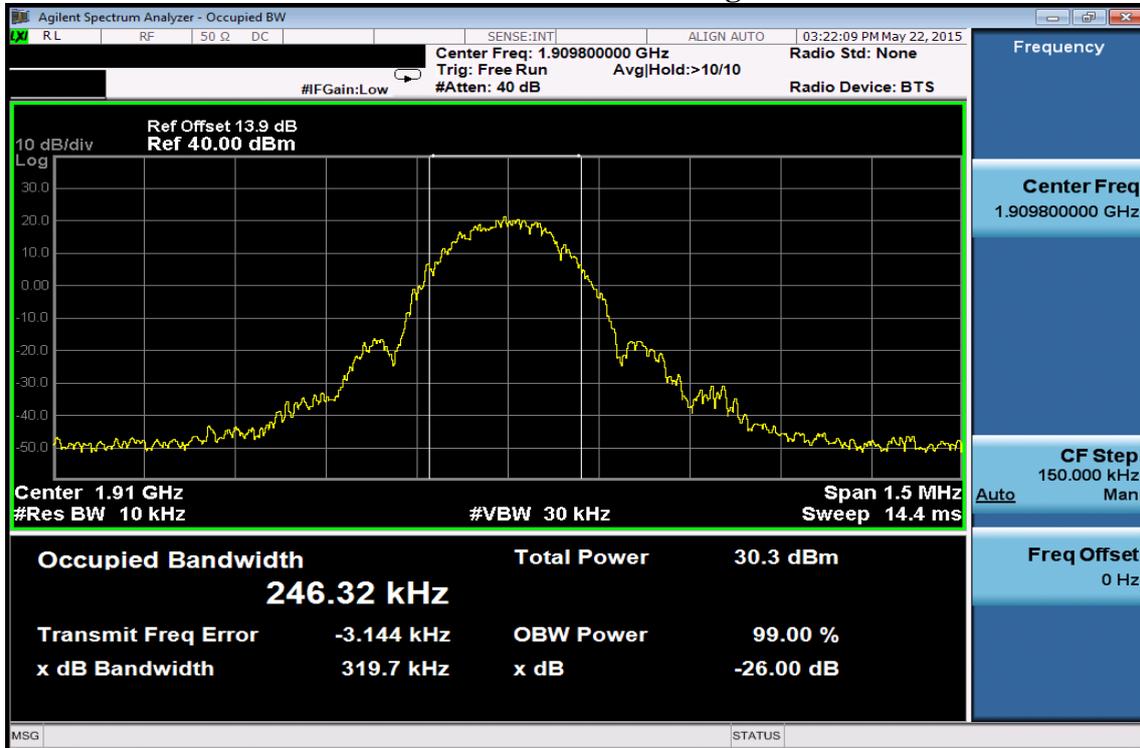
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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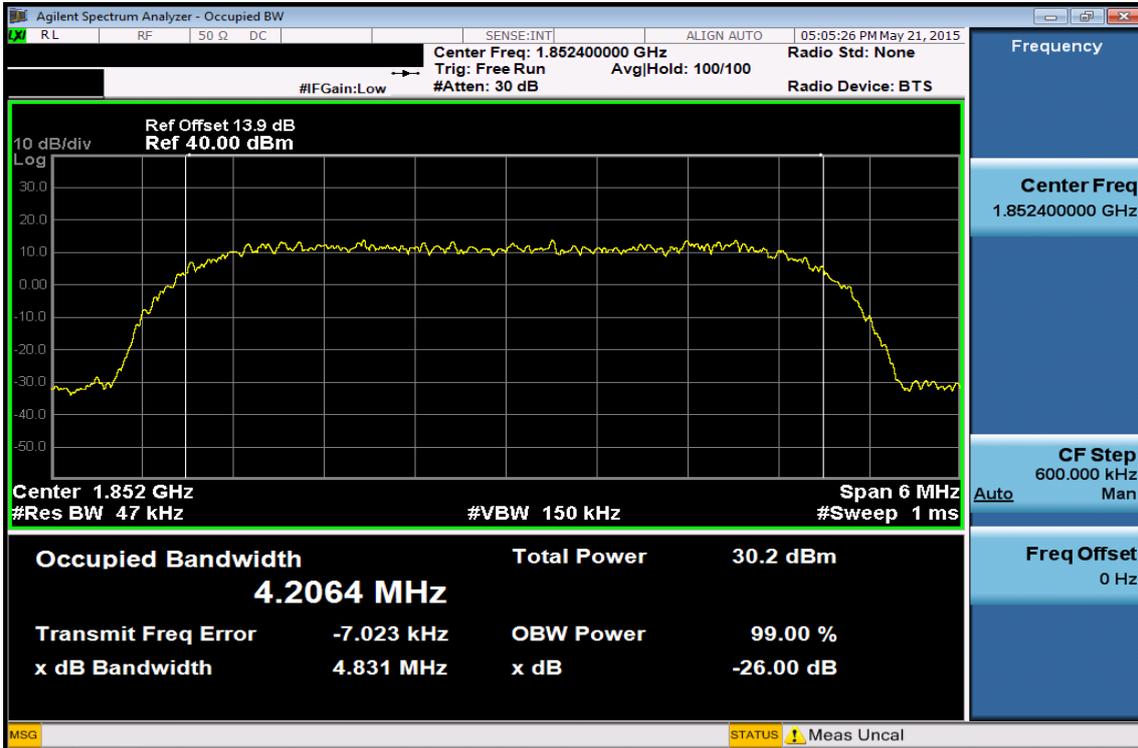
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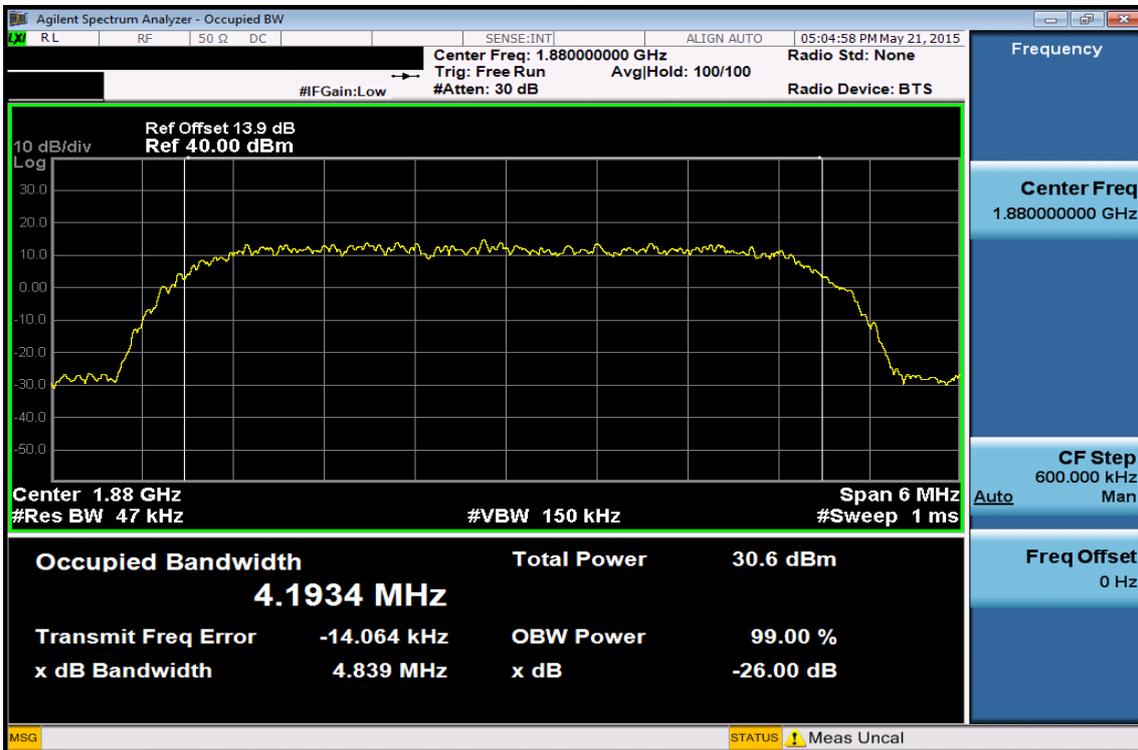
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WCDMA II Channel Low



WCDMA II Channel Mid



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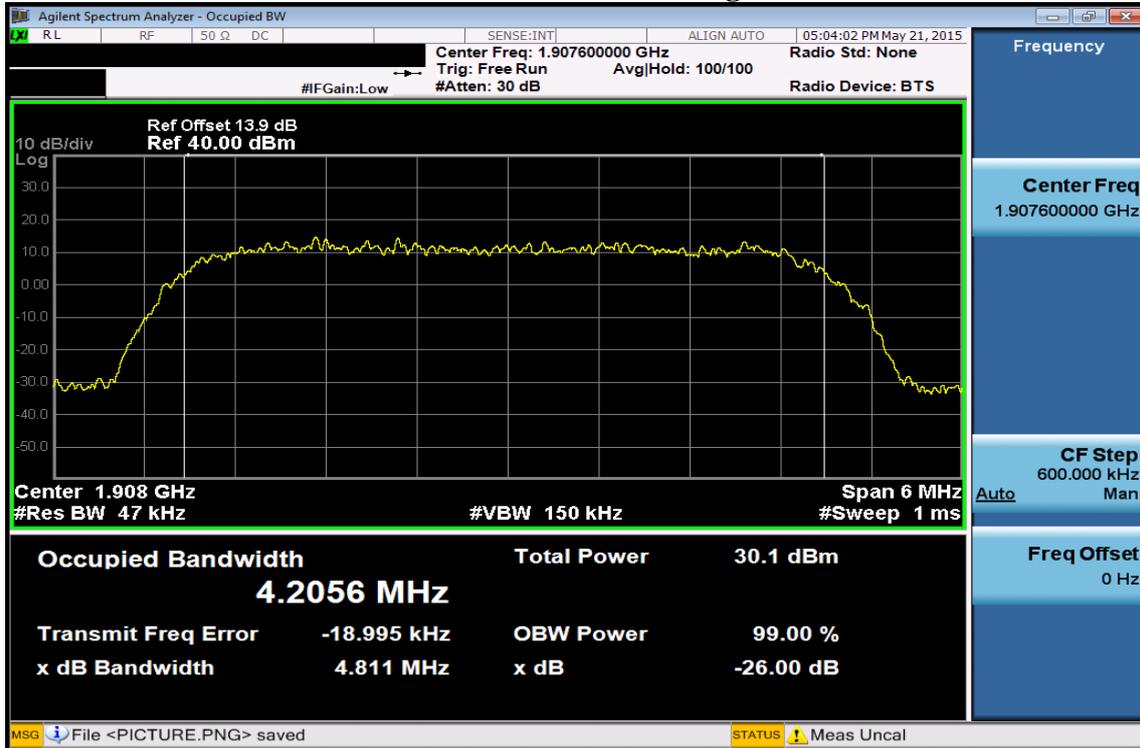
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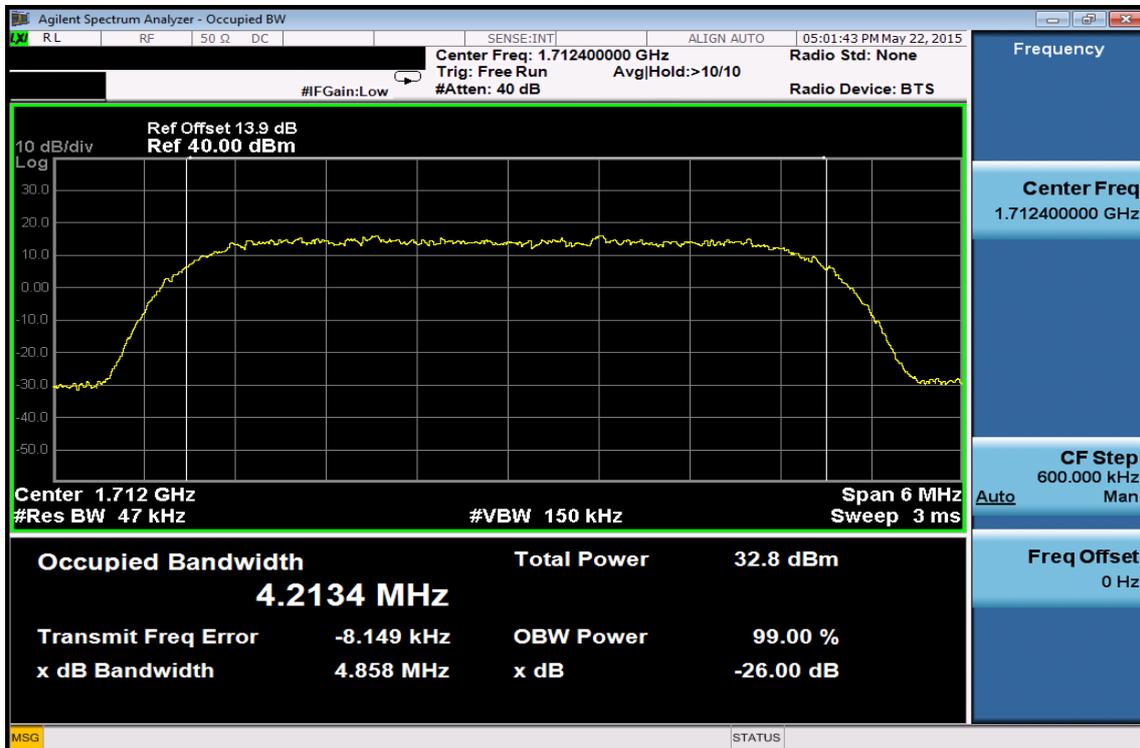
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WCDMA II Channel High



WCDMA IV Channel Low



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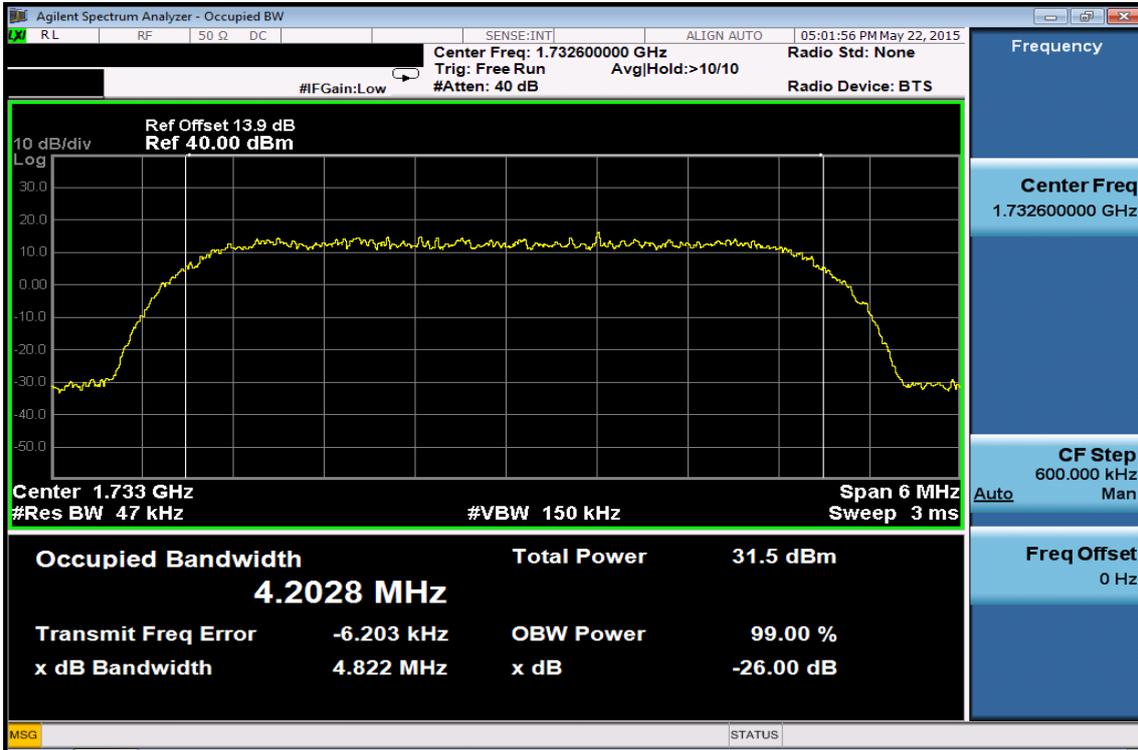
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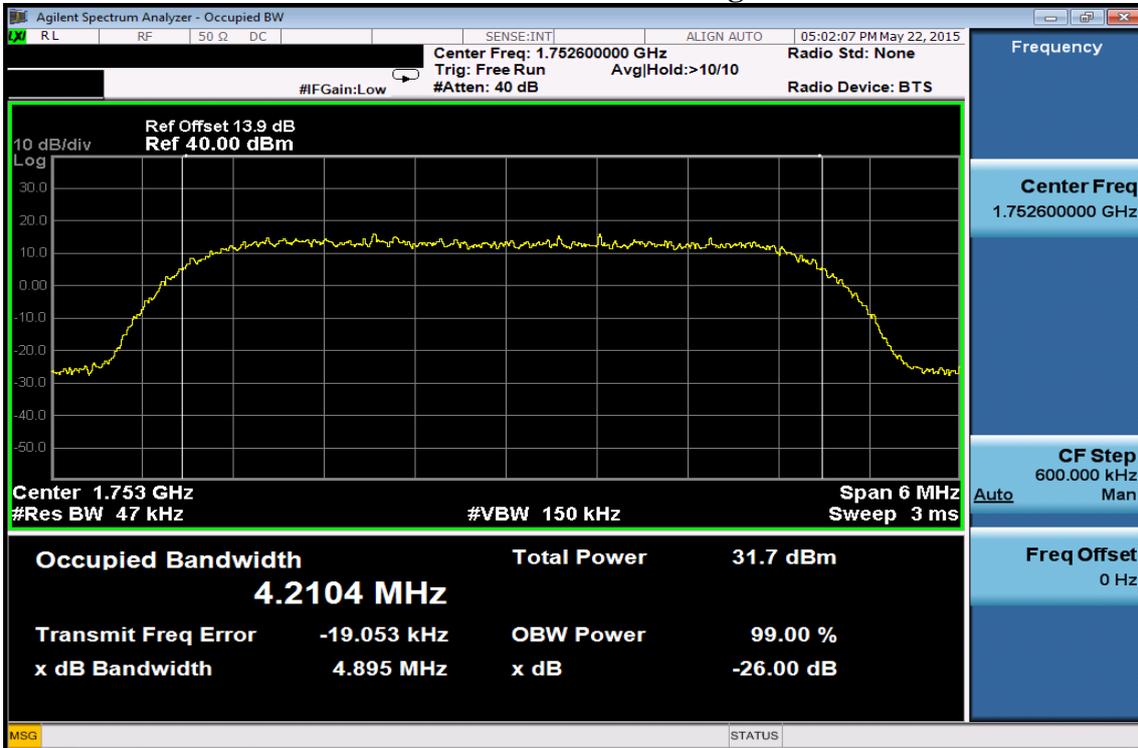
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WCDMA IV Channel Mid



WCDMA IV Channel High



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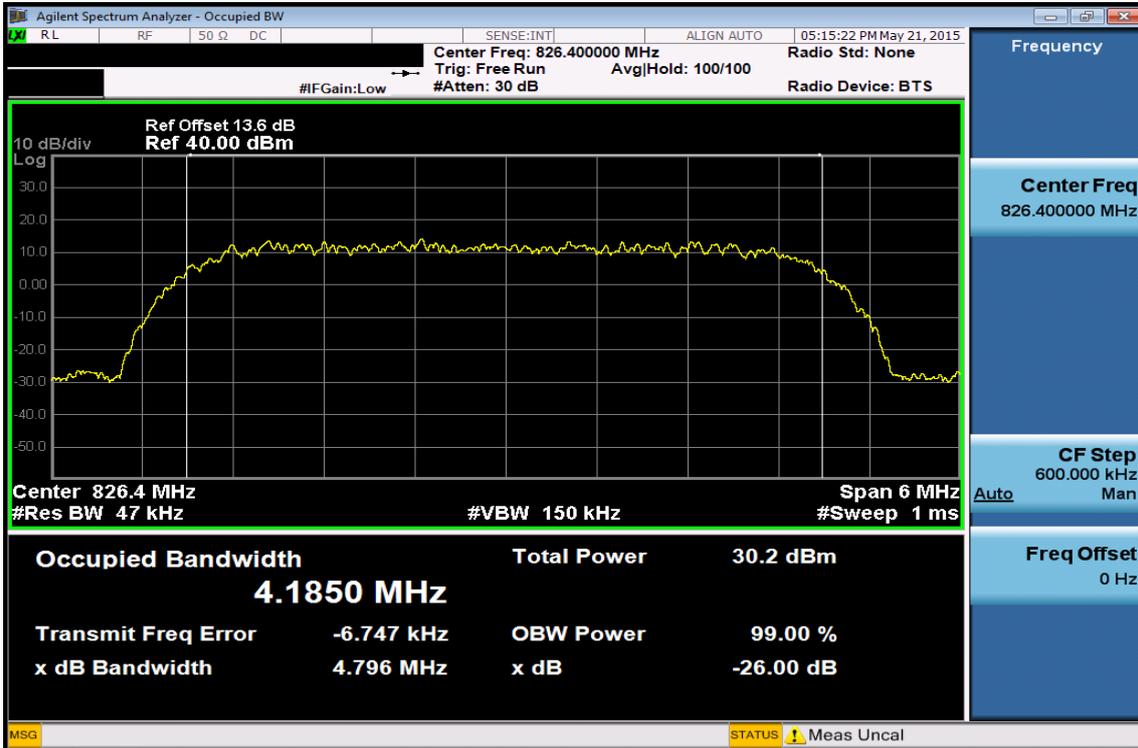
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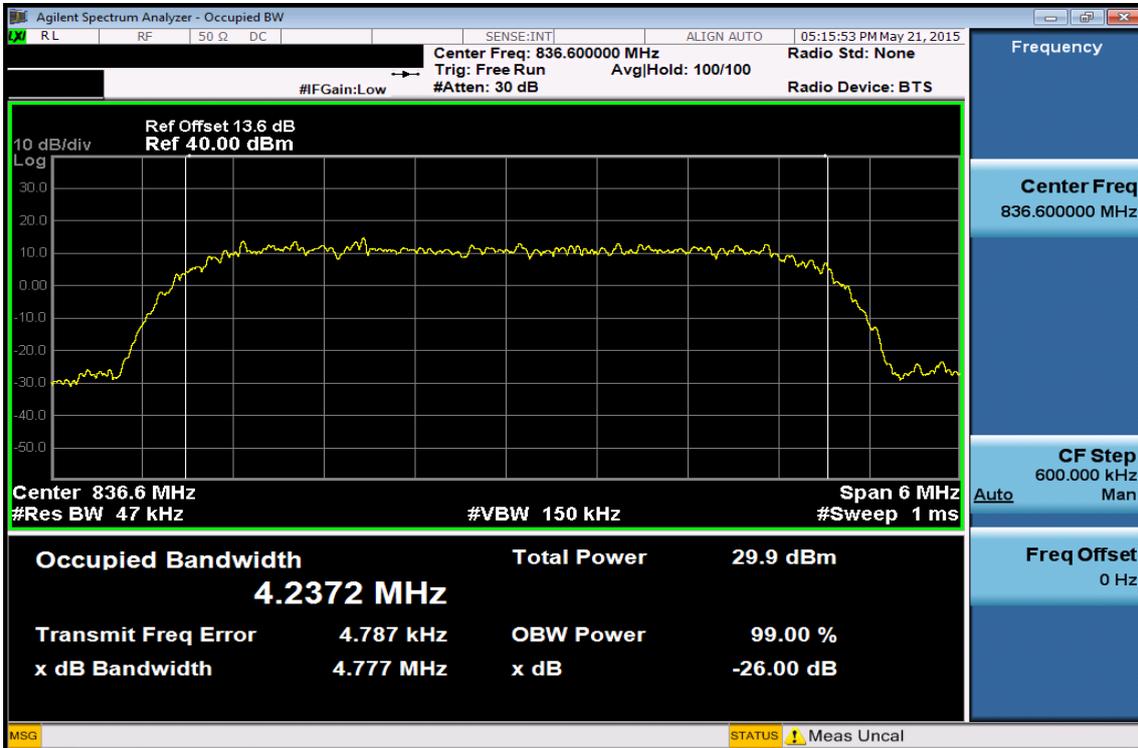
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WCDMA V Channel Low



WCDMA V Channel Mid



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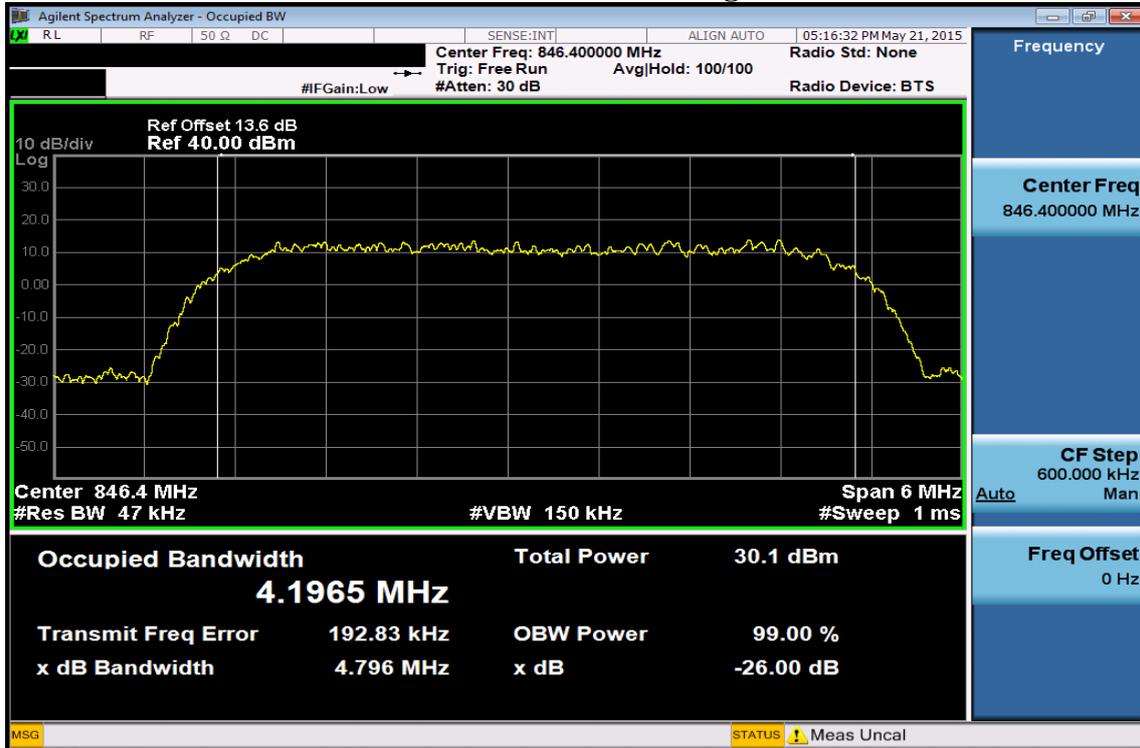
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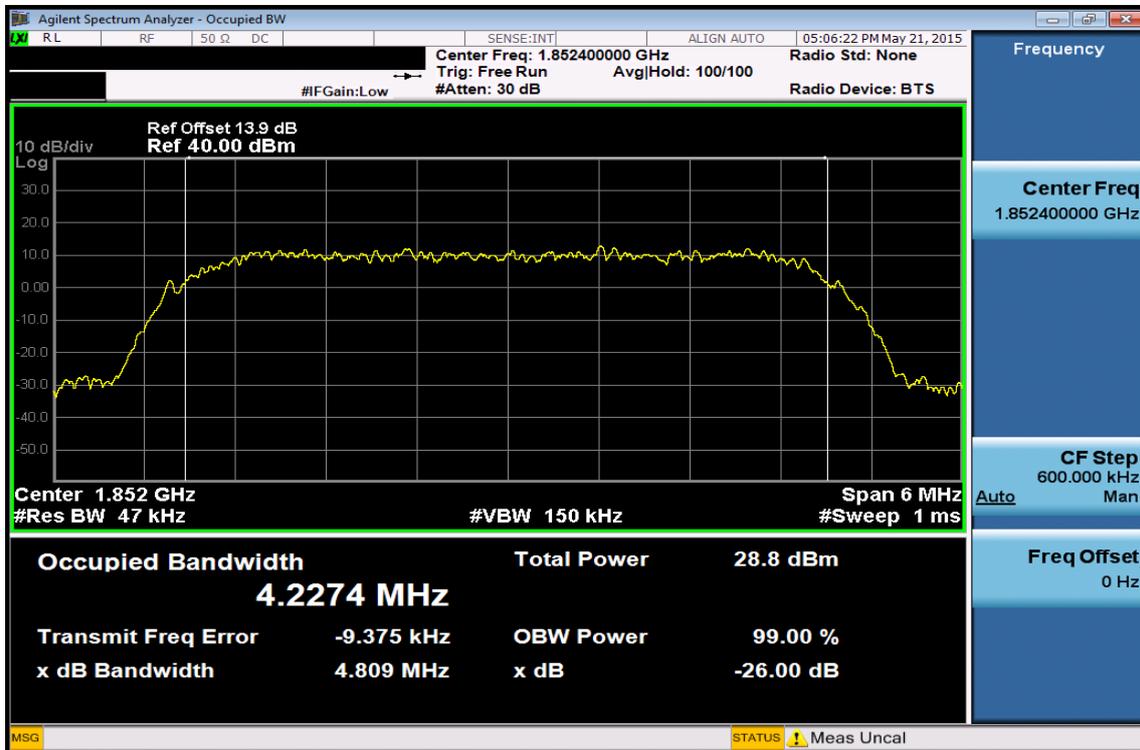
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WCDMA V Channel High



HSDPA II Channel Low



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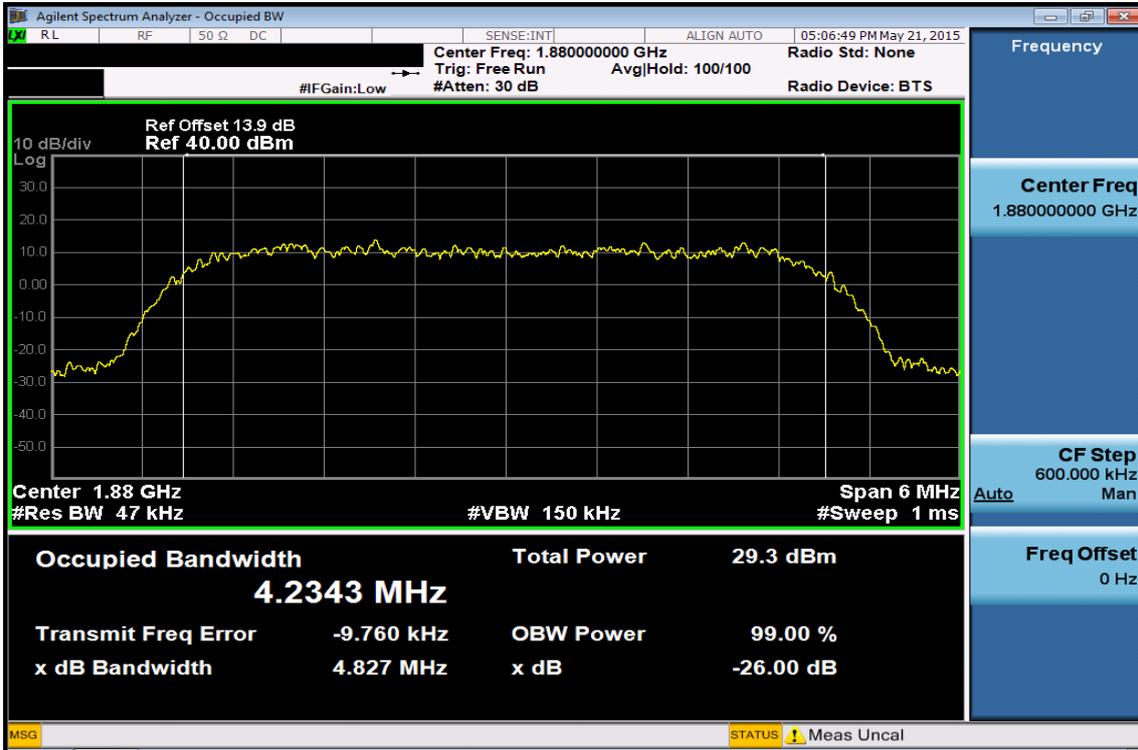
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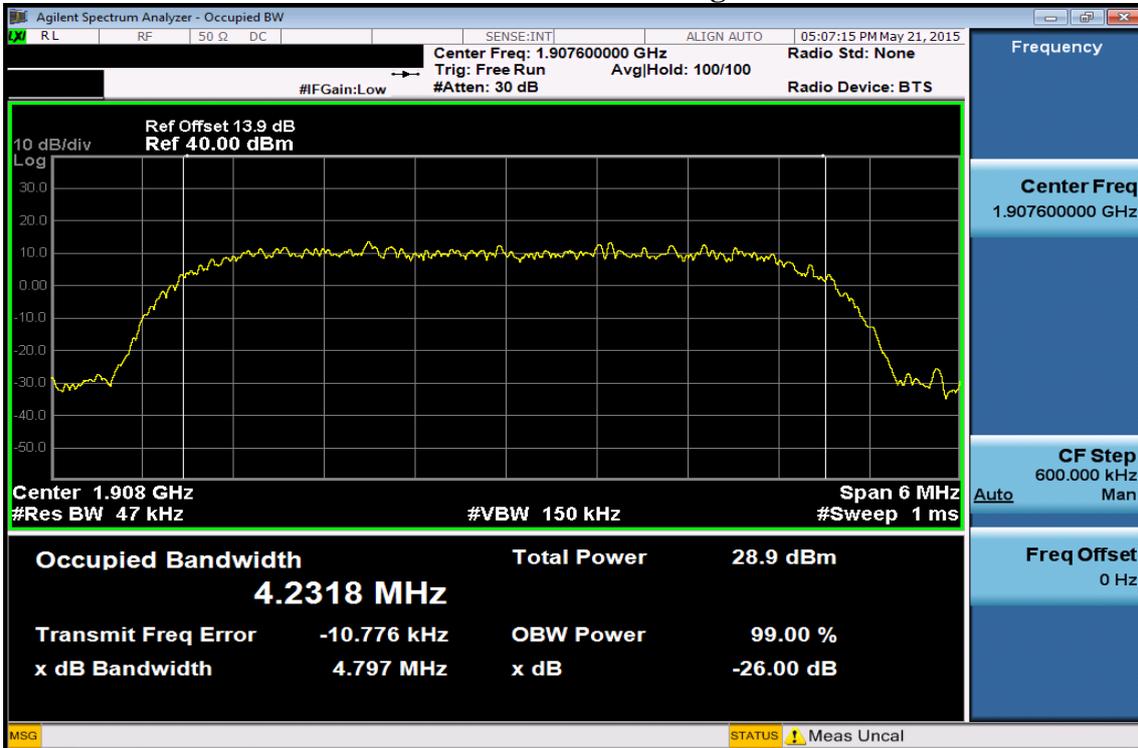
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HSDPA II Channel Mid



HSDPA II Channel High



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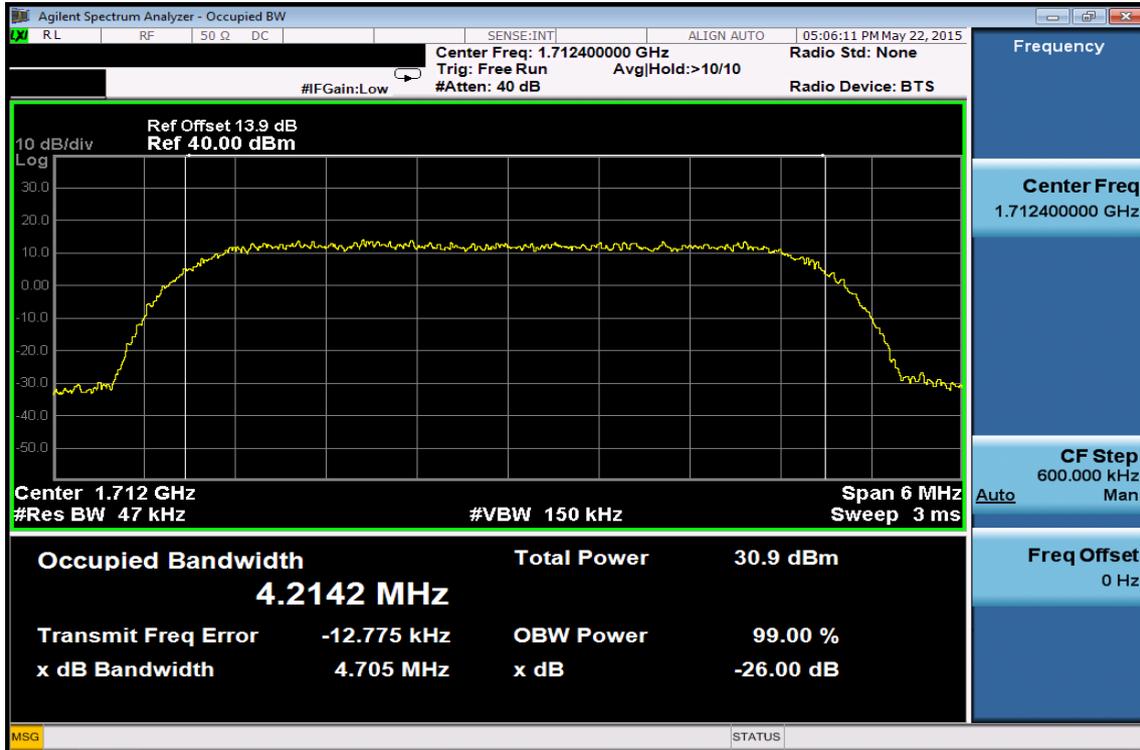
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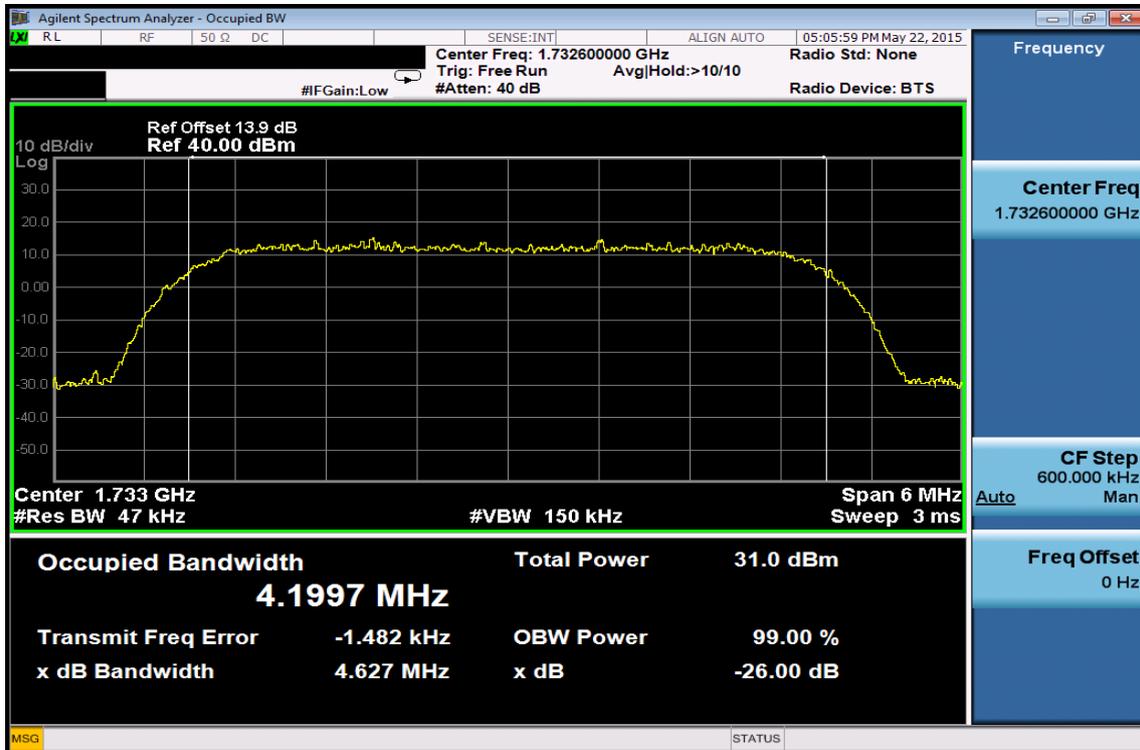
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HSDPA IV Channel Low



HSDPA IV Channel Mid



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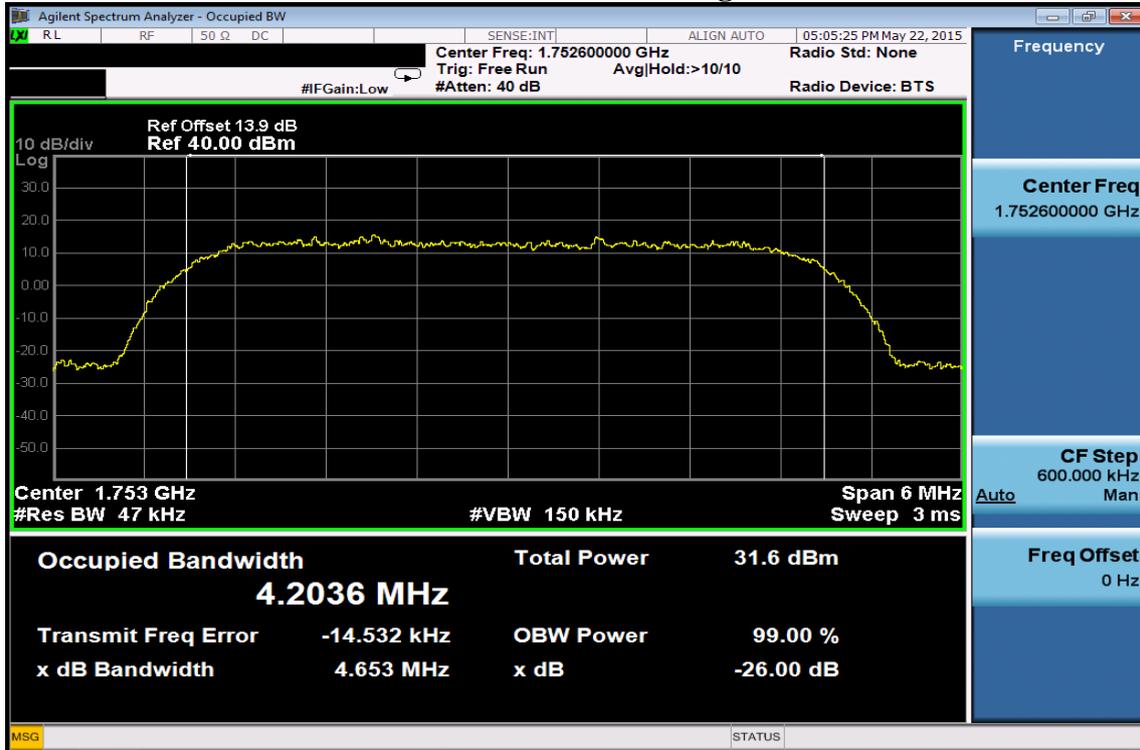
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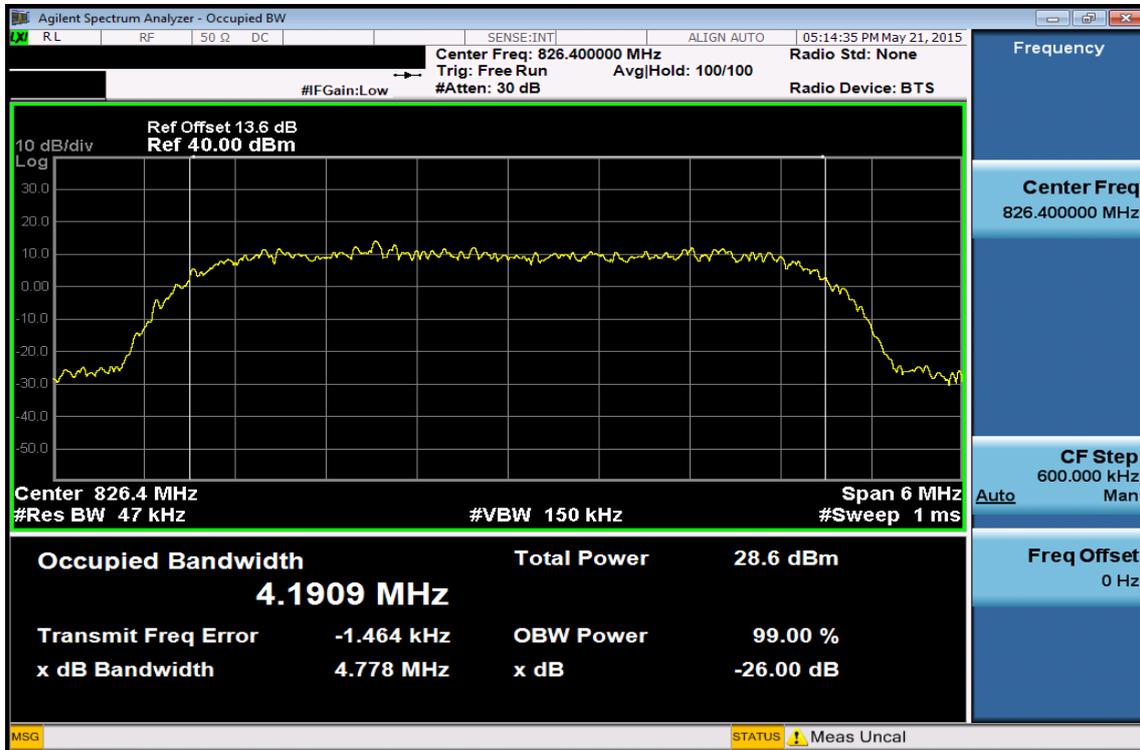
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HSDPA IV Channel High



HSDPA V Channel Low



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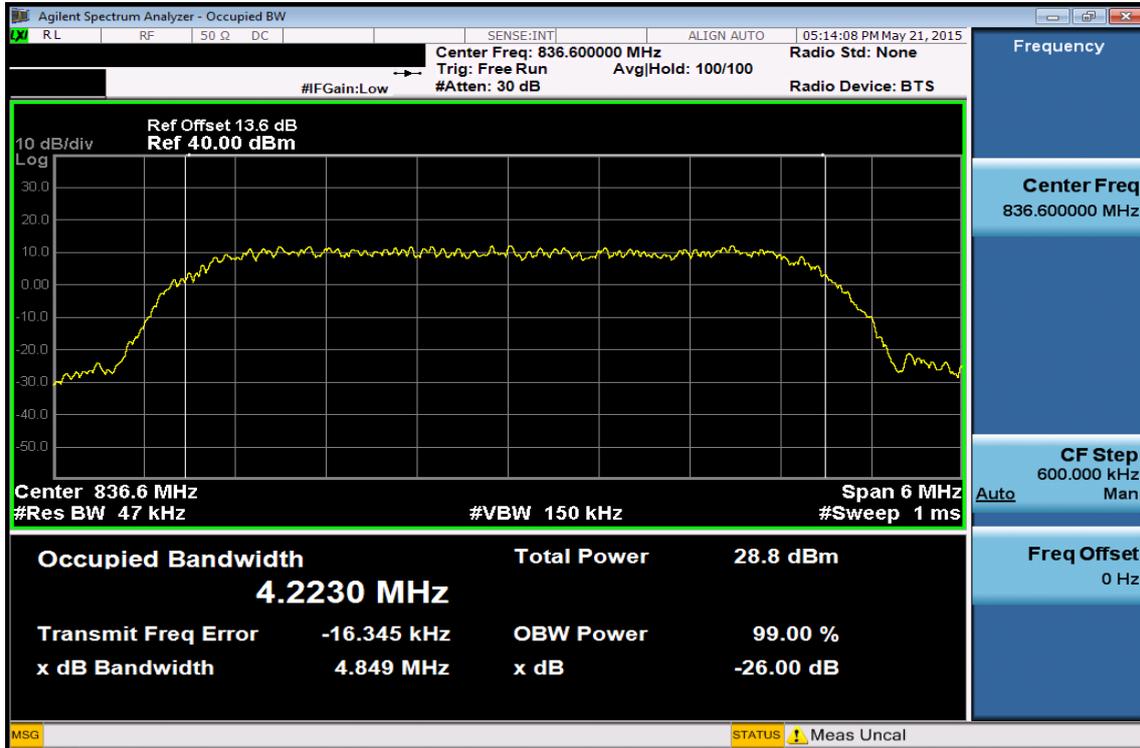
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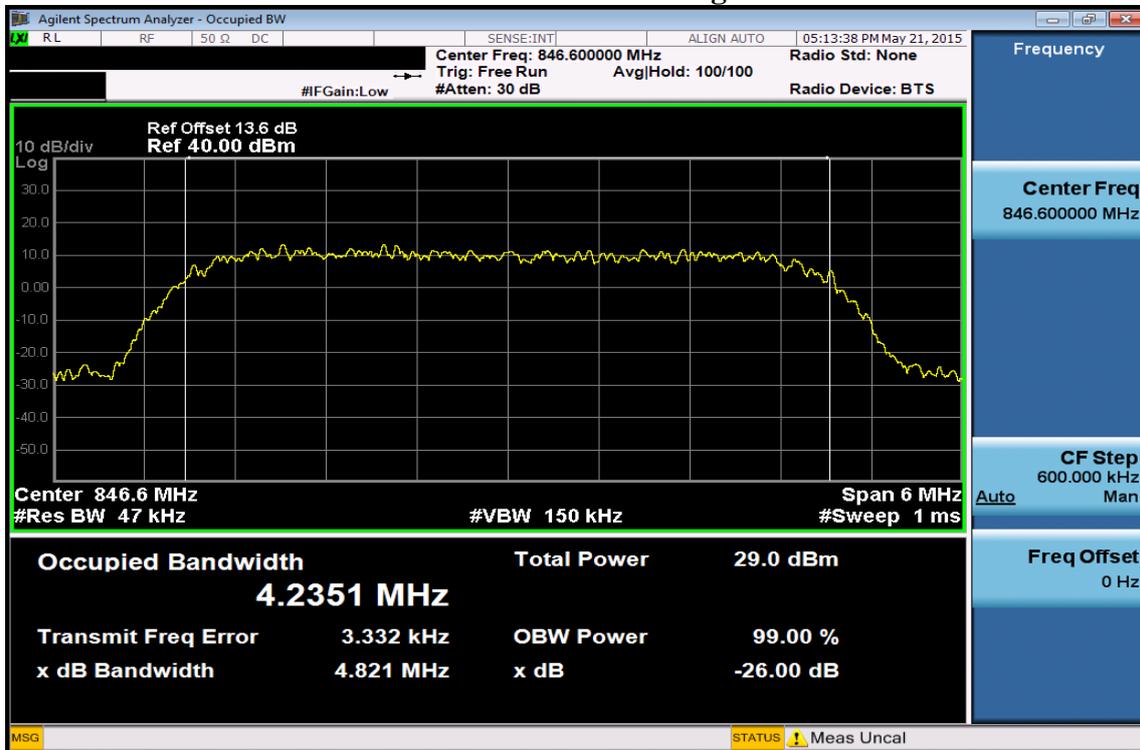
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HSDPA V Channel Mid



HSDPA V Channel High



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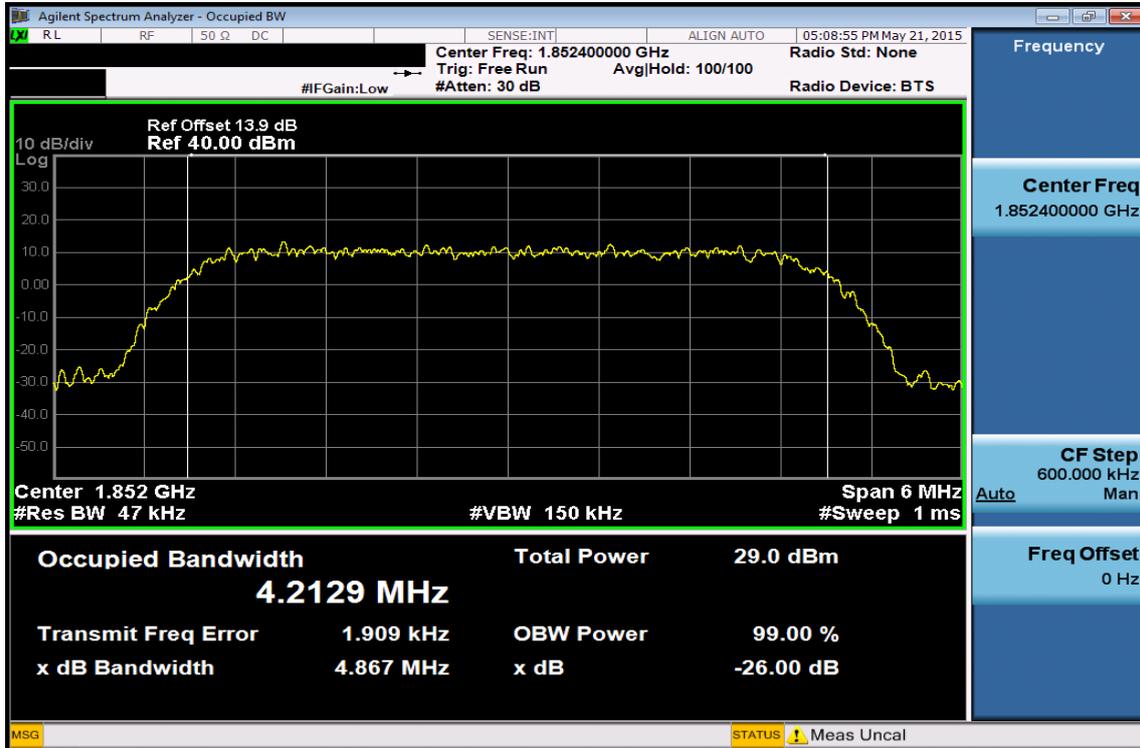
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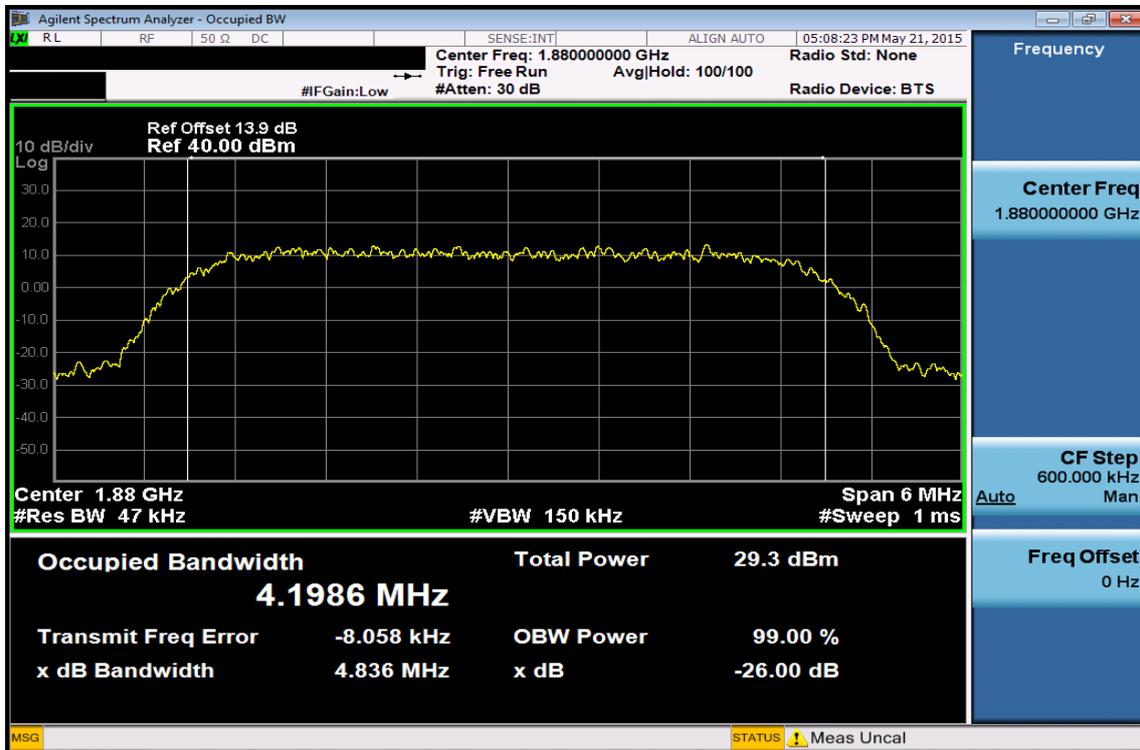
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HSUPA II Channel Low



HSUPA II Channel Mid



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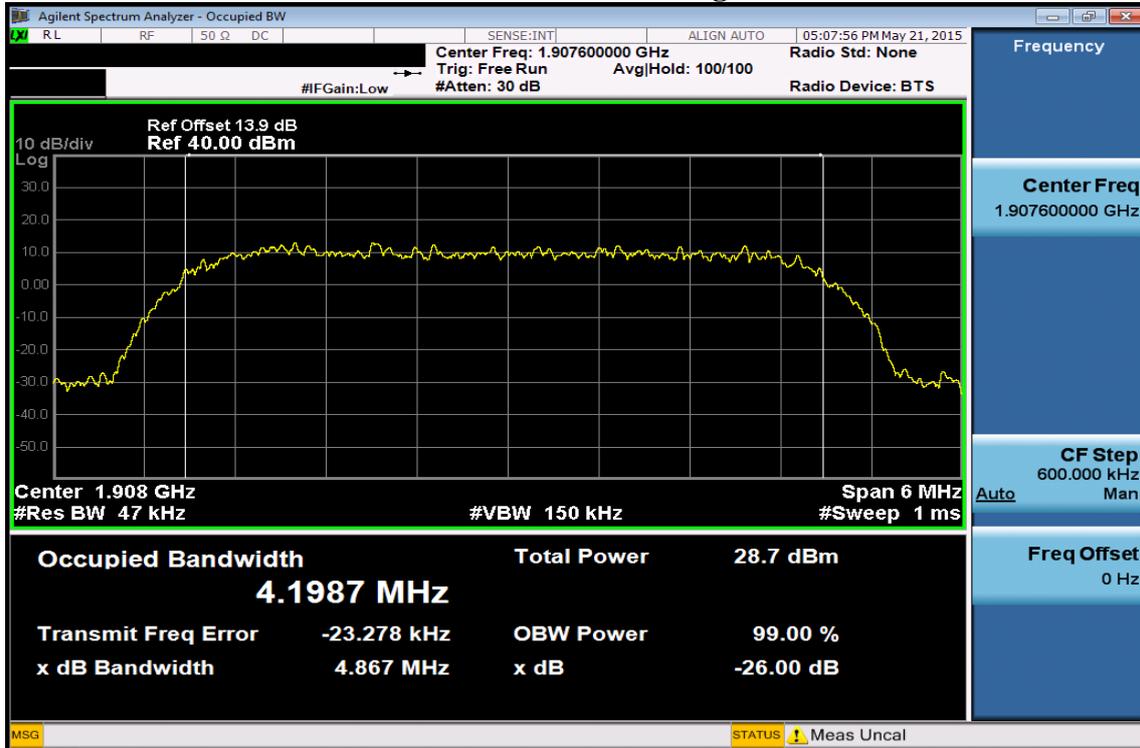
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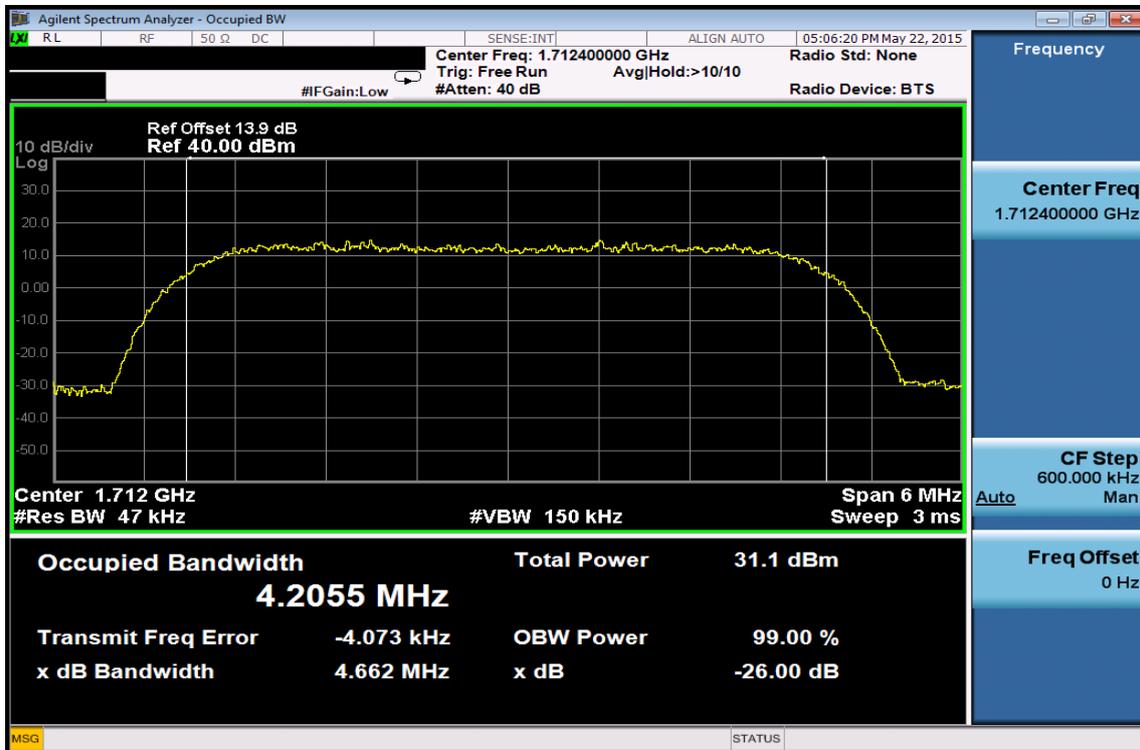
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HSUPA II Channel High



HSUPA IV Channel Low



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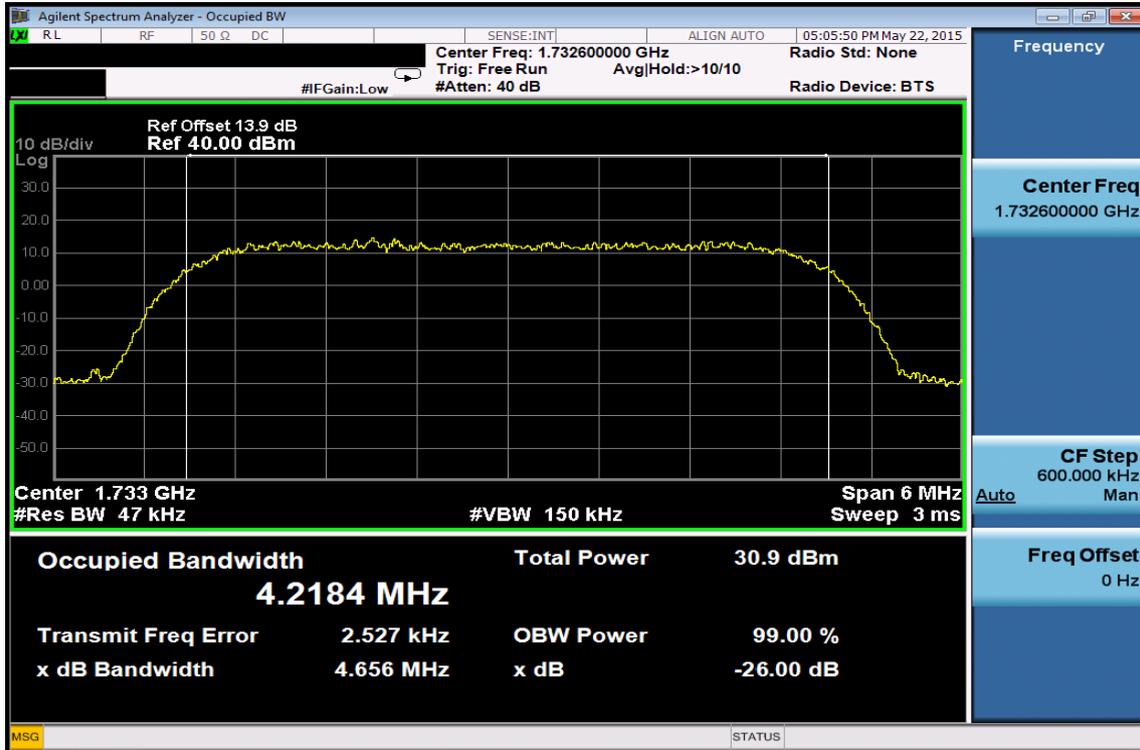
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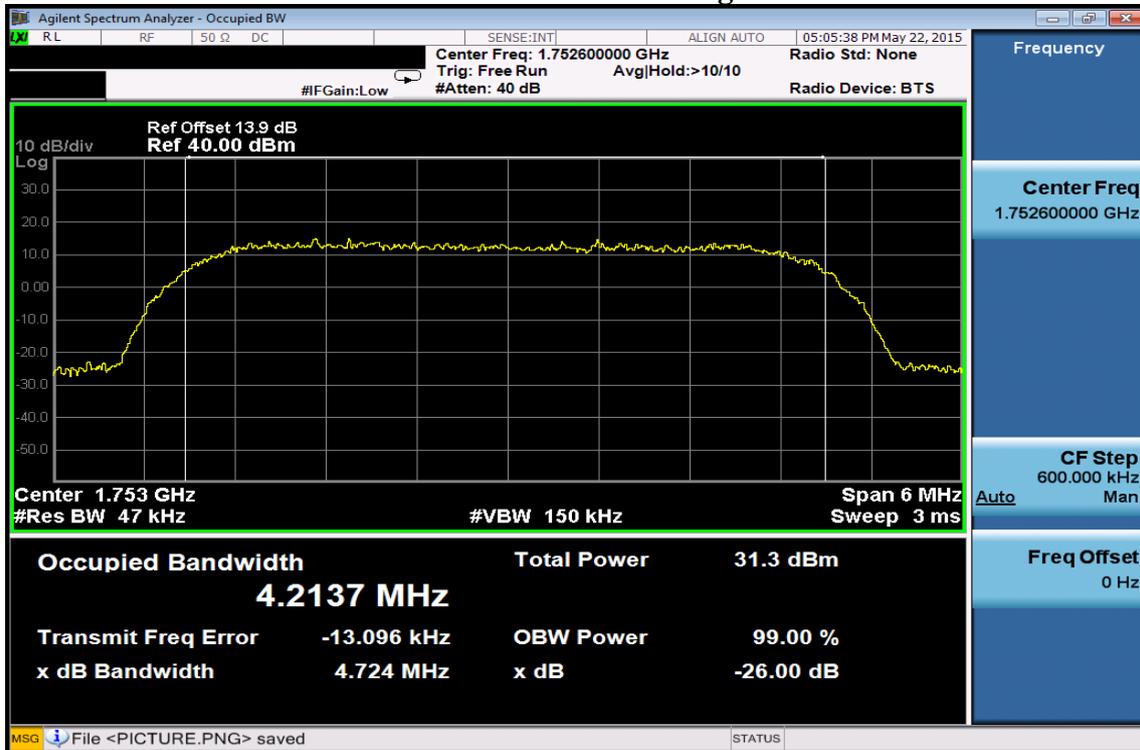
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HSUPA IV Channel Mid



HSUPA IV Channel High



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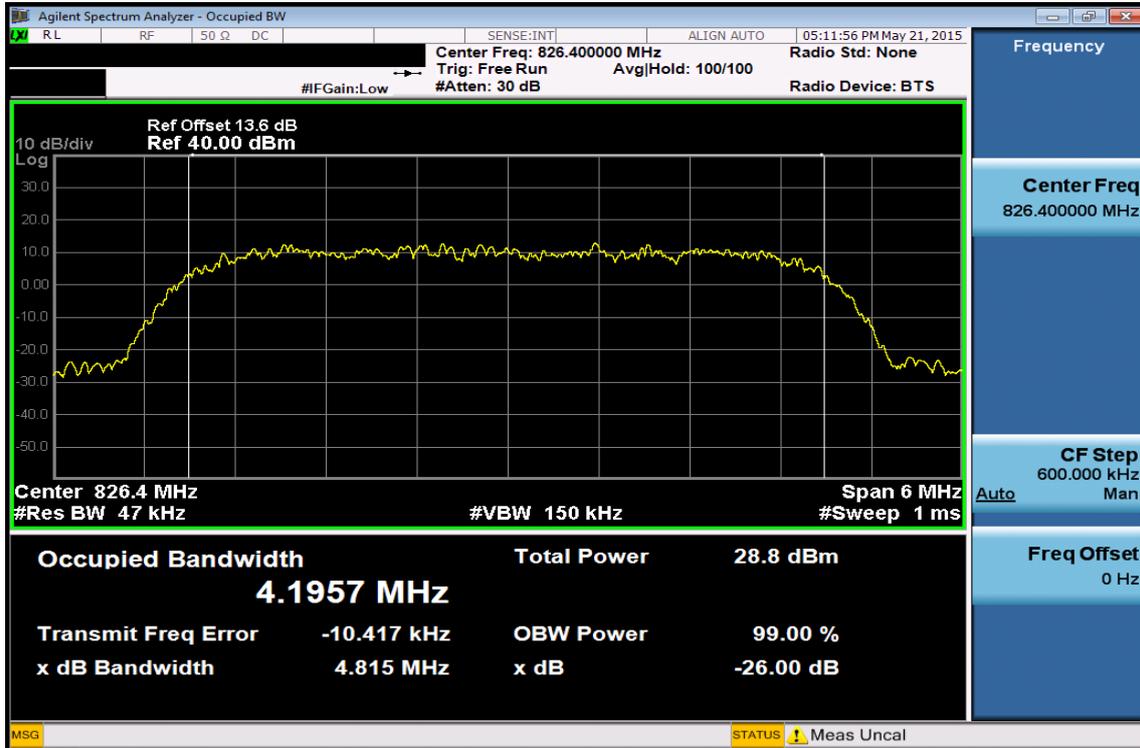
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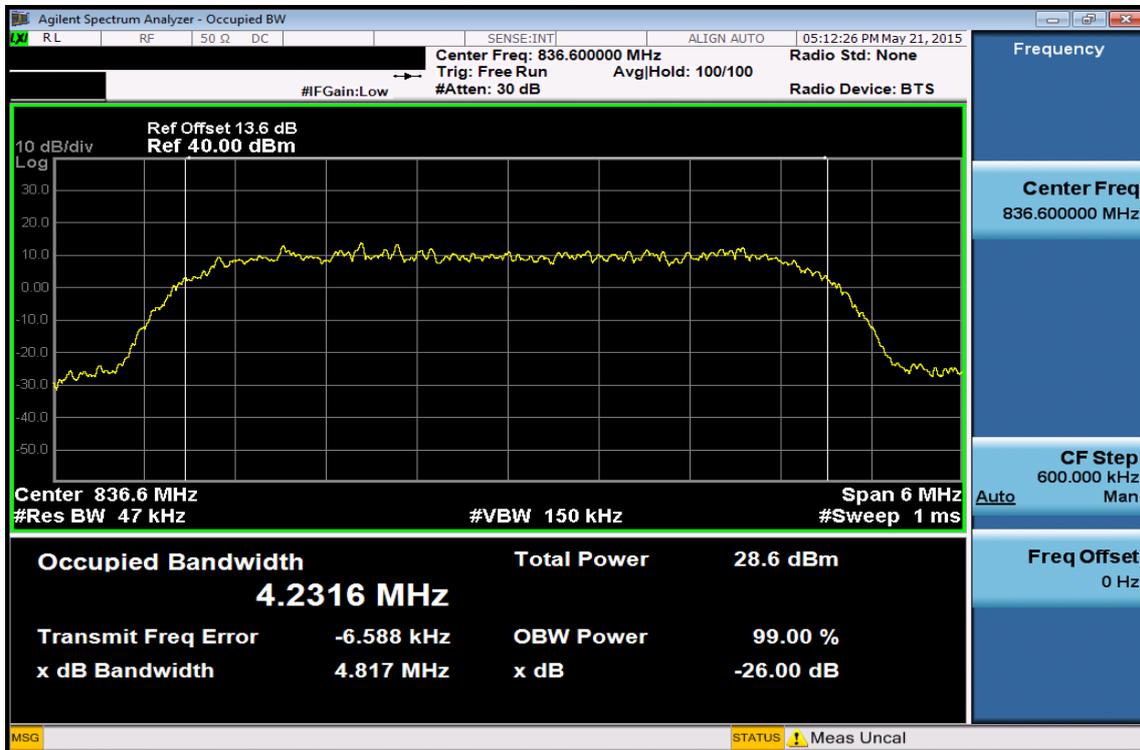
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HSUPA V Channel Low



HSUPA V Channel Mid



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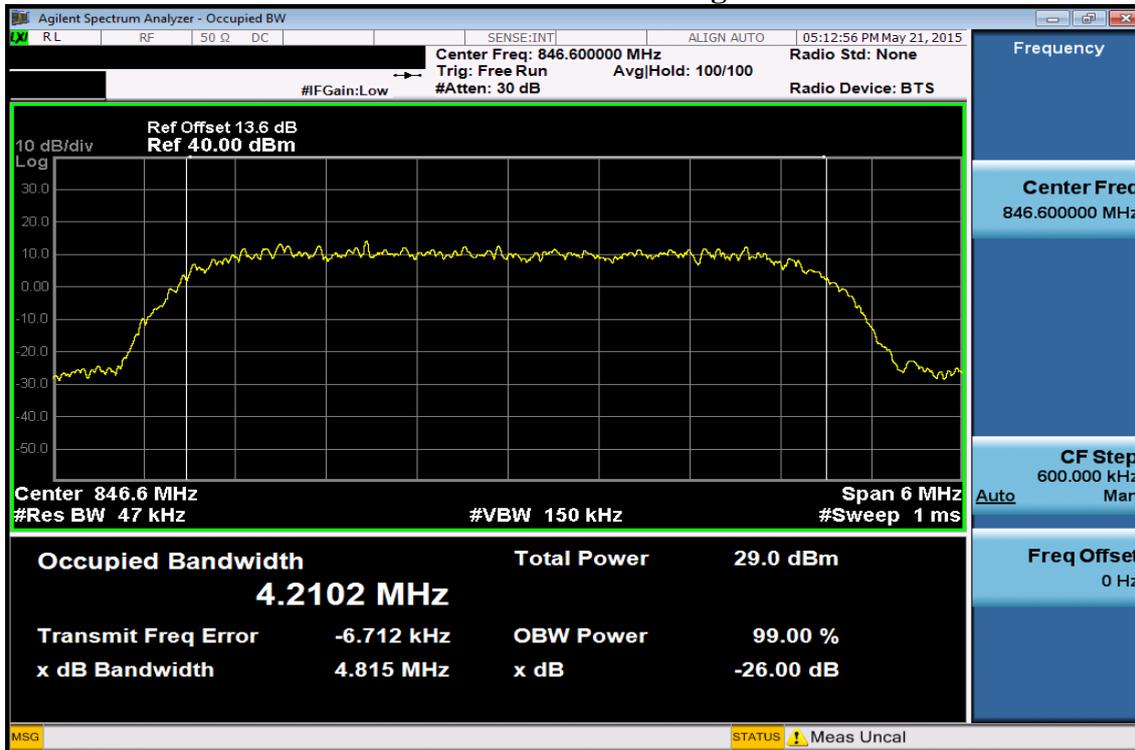
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HSUPA V Channel High



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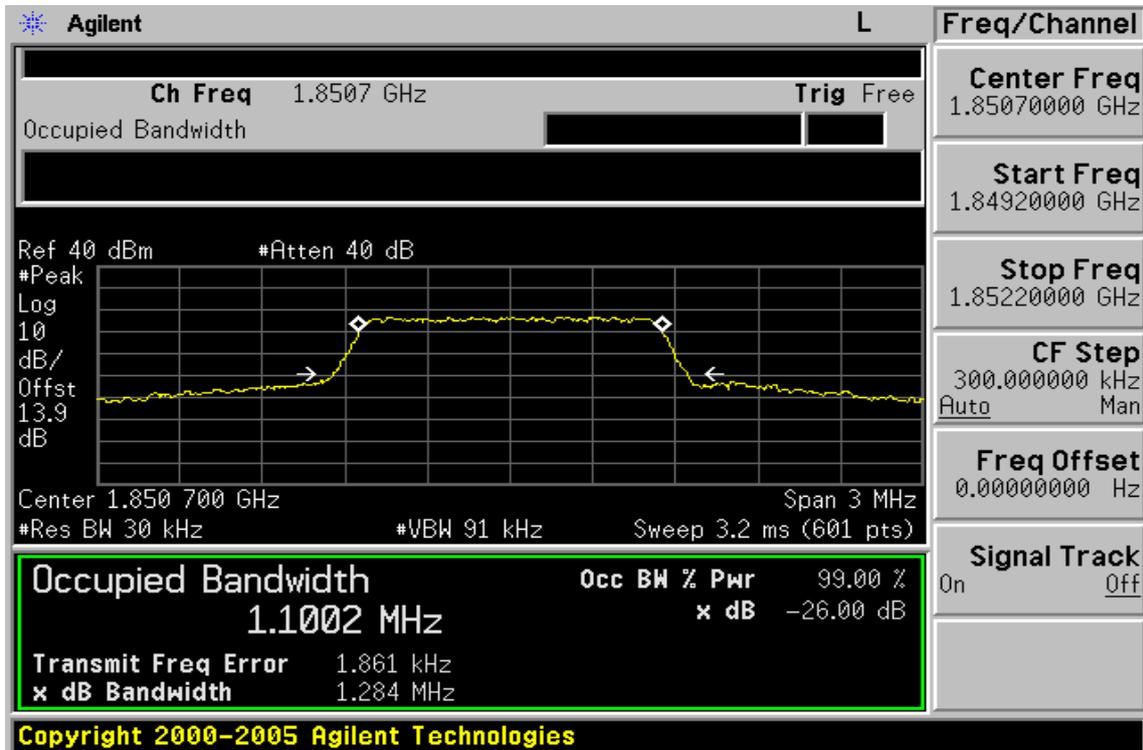
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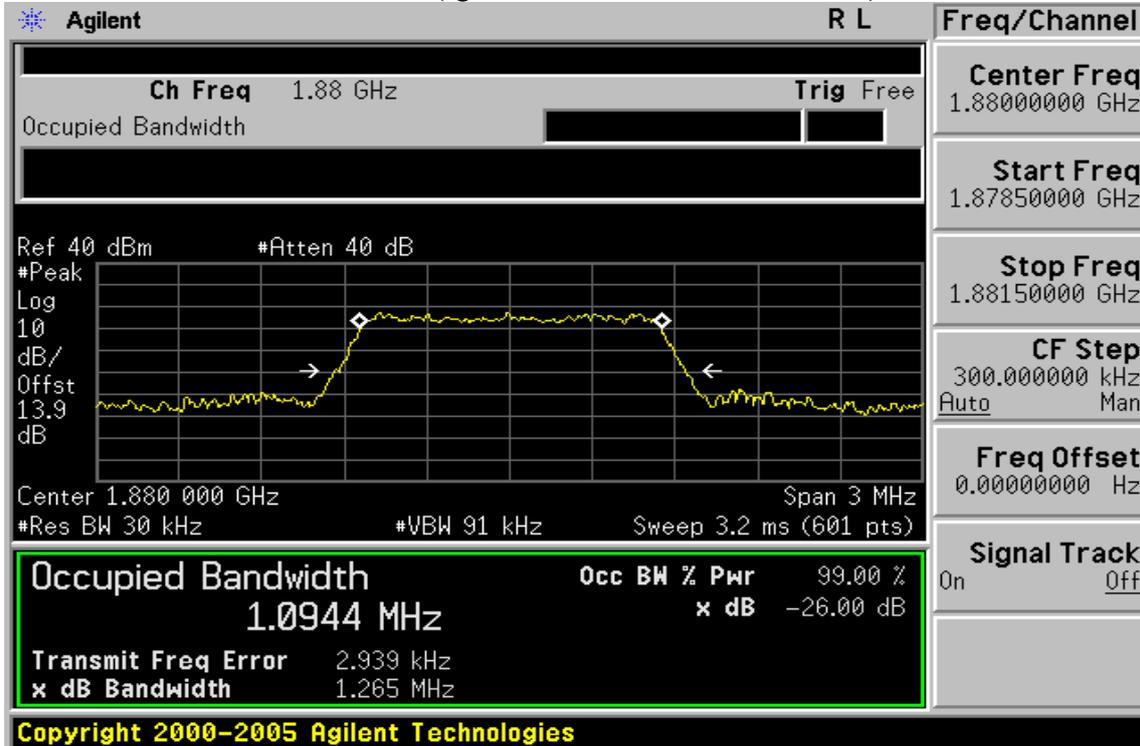
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Mid



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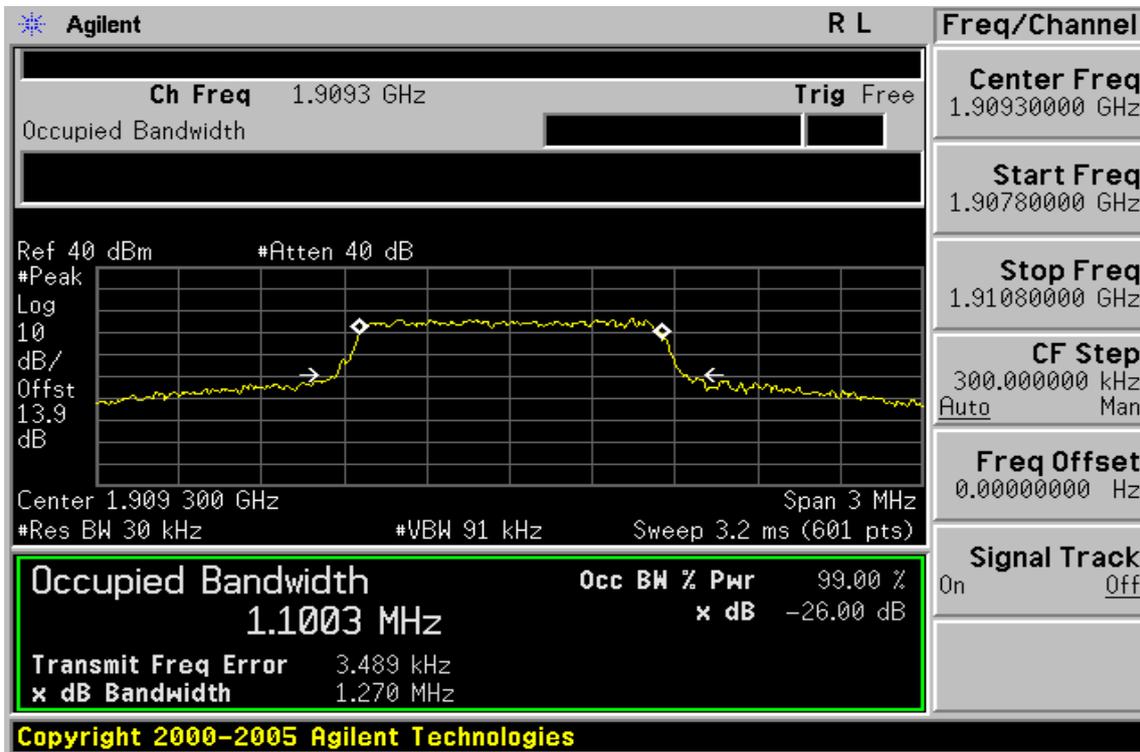
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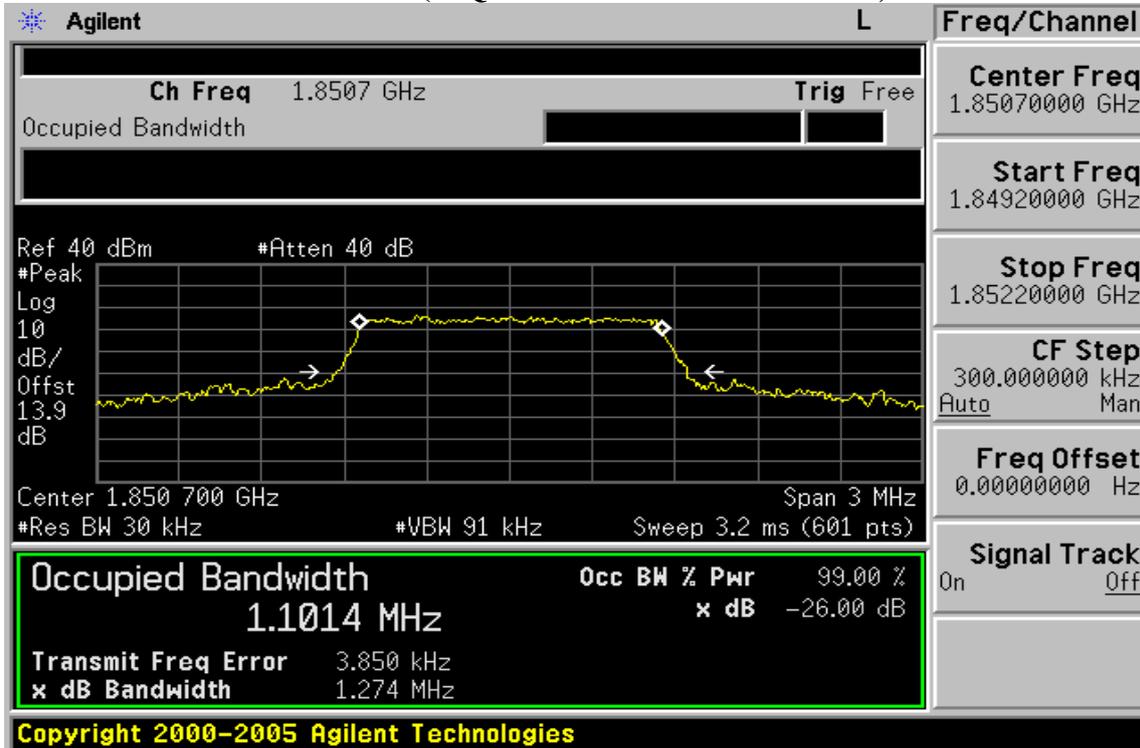
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Low



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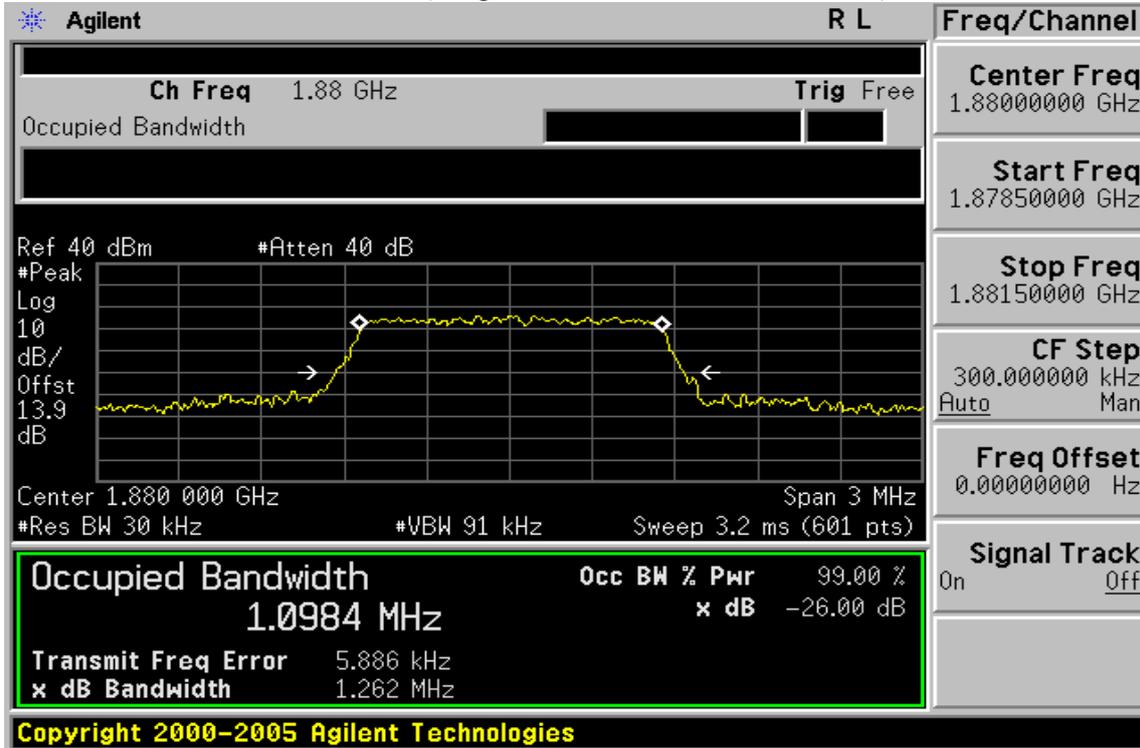
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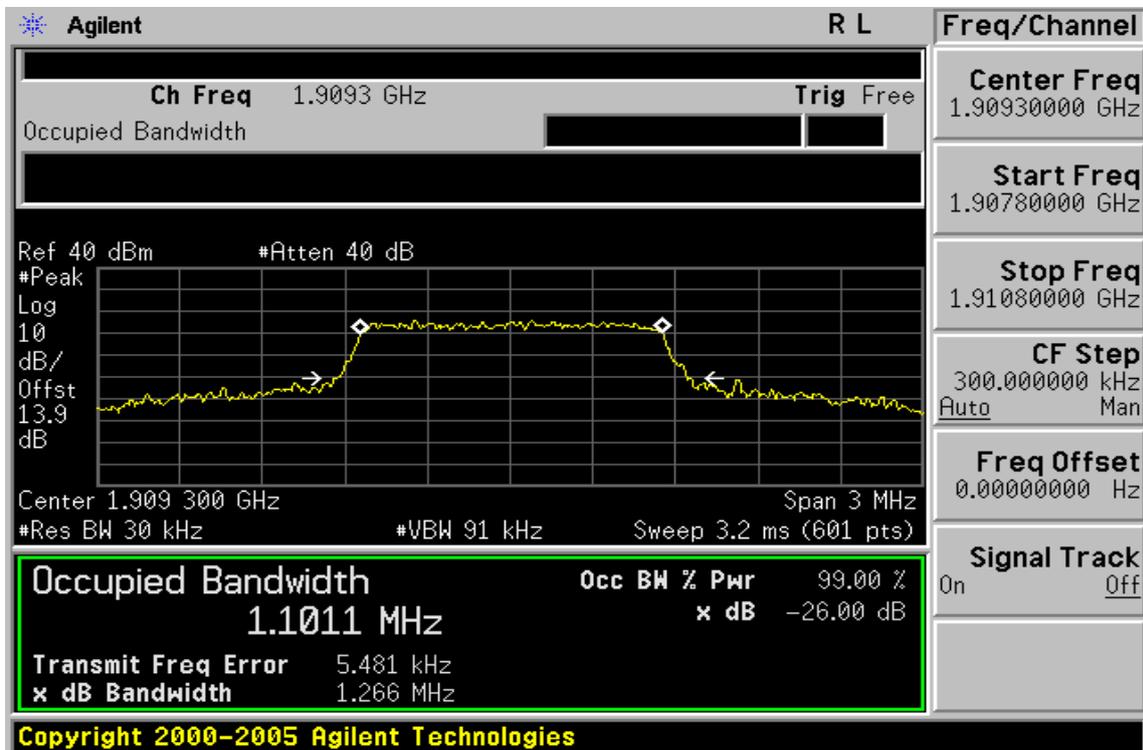
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1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel High



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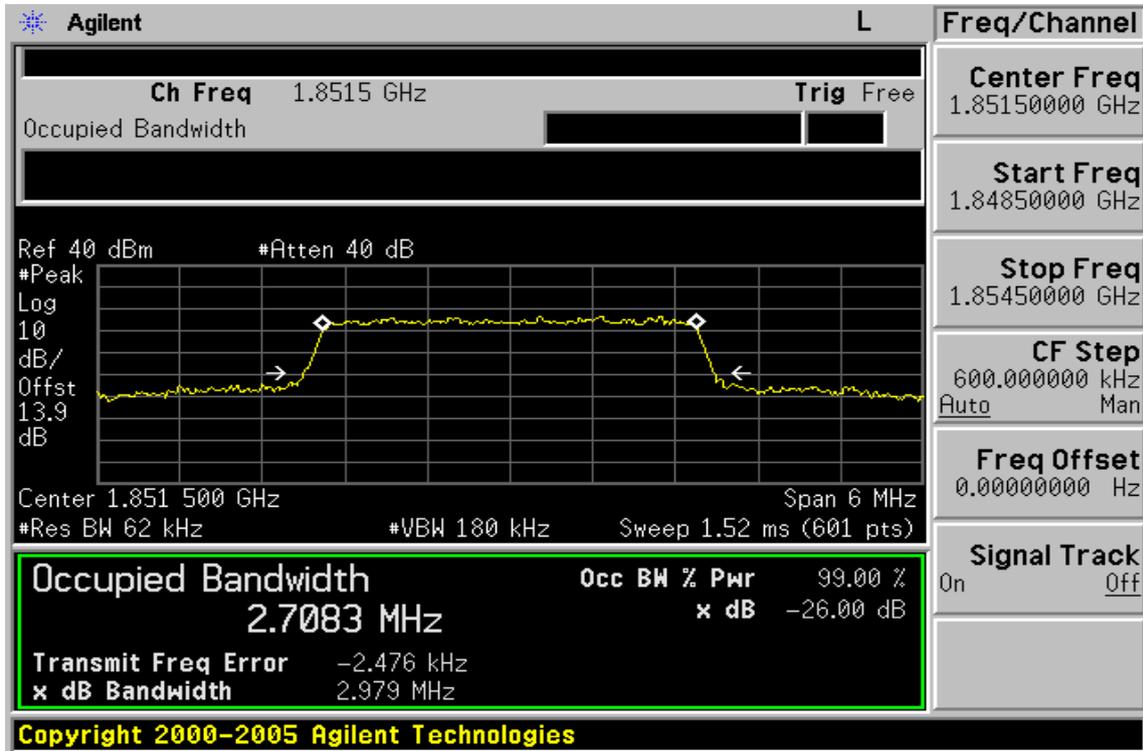
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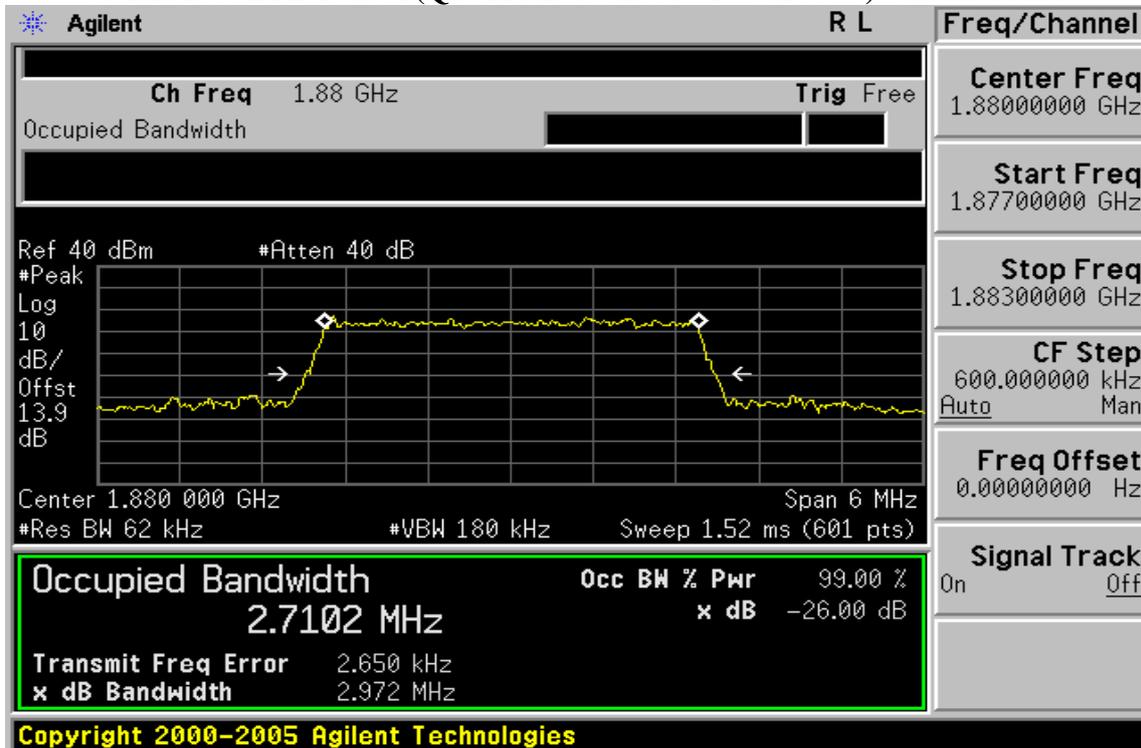
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Mid



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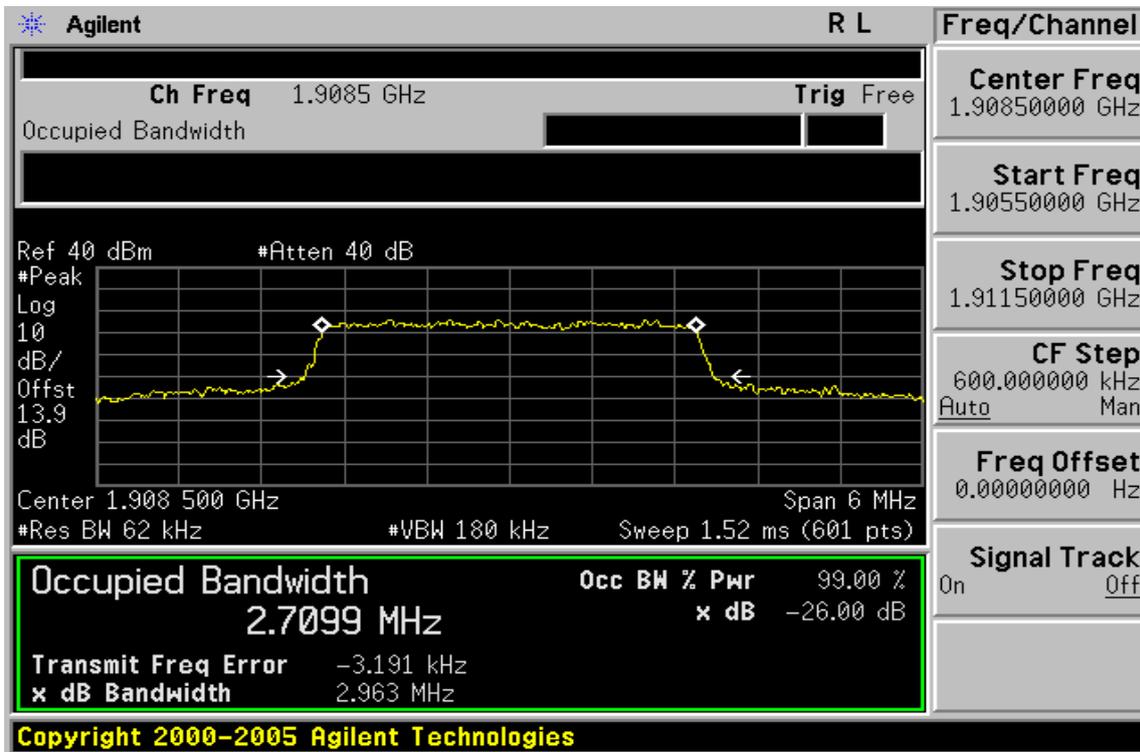
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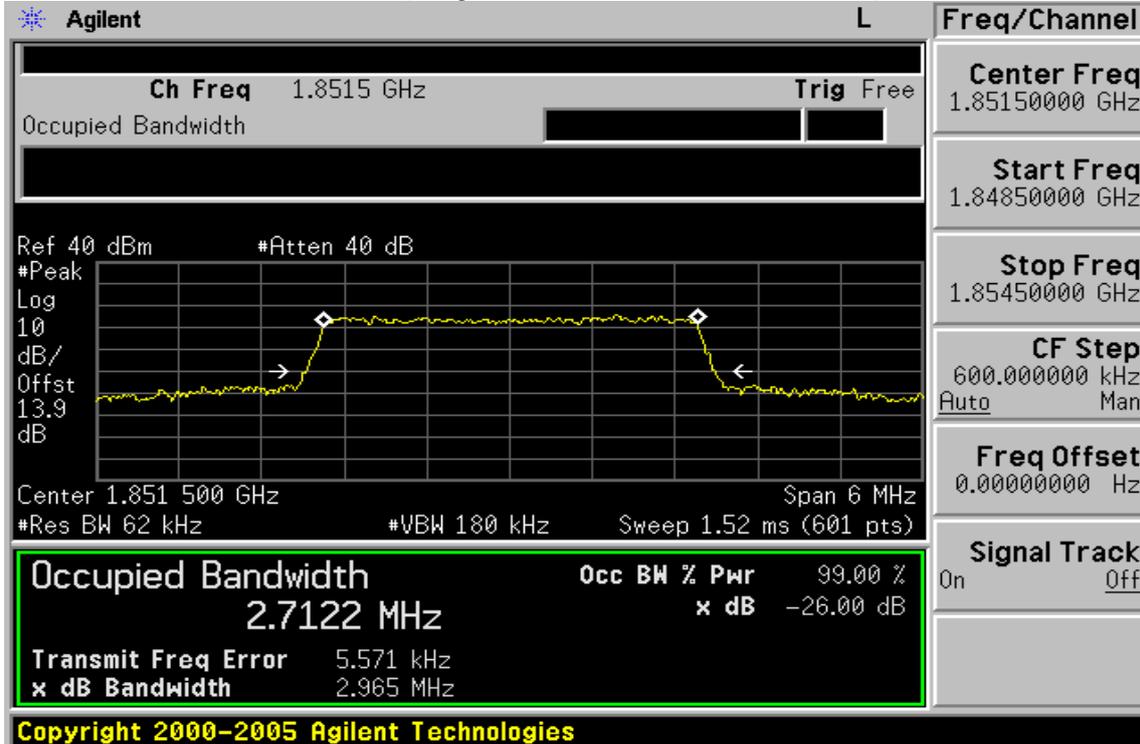
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Low



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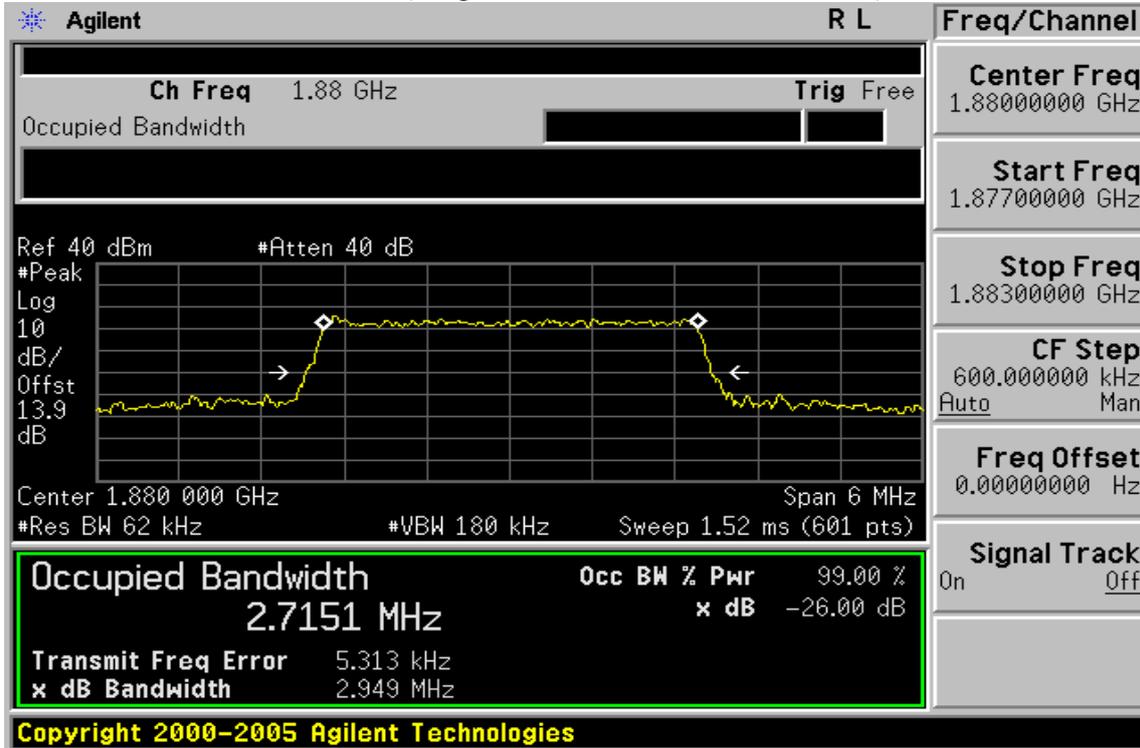
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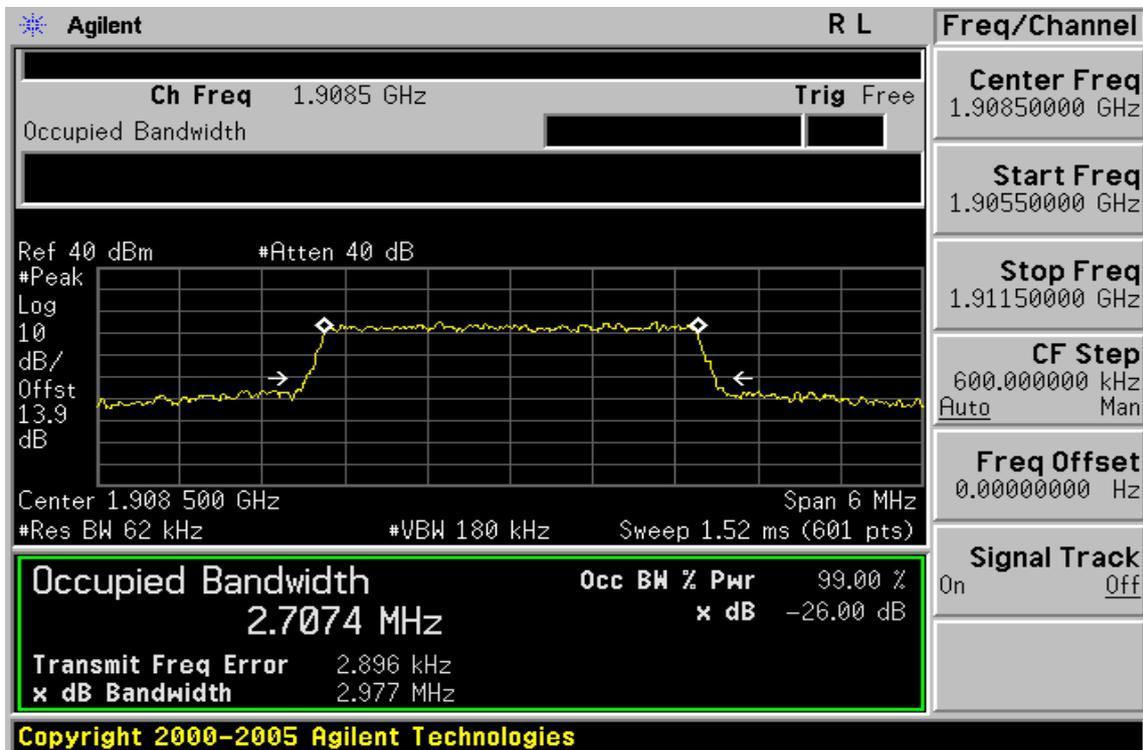
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3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel High



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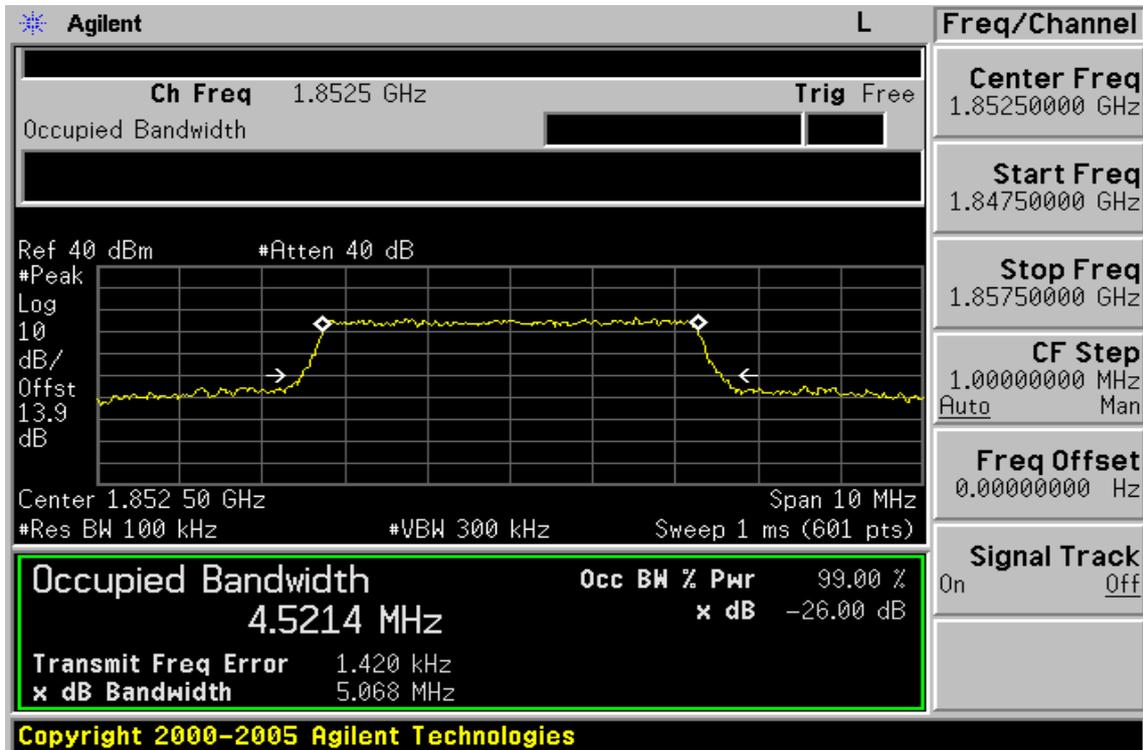
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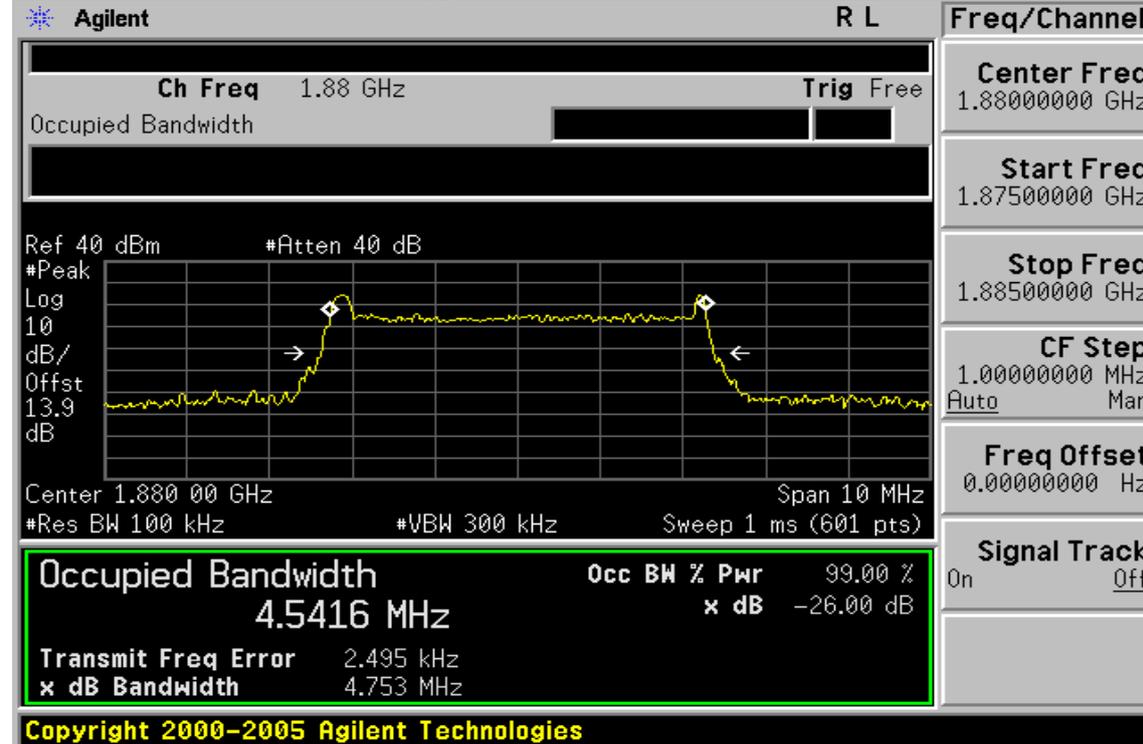
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Mid



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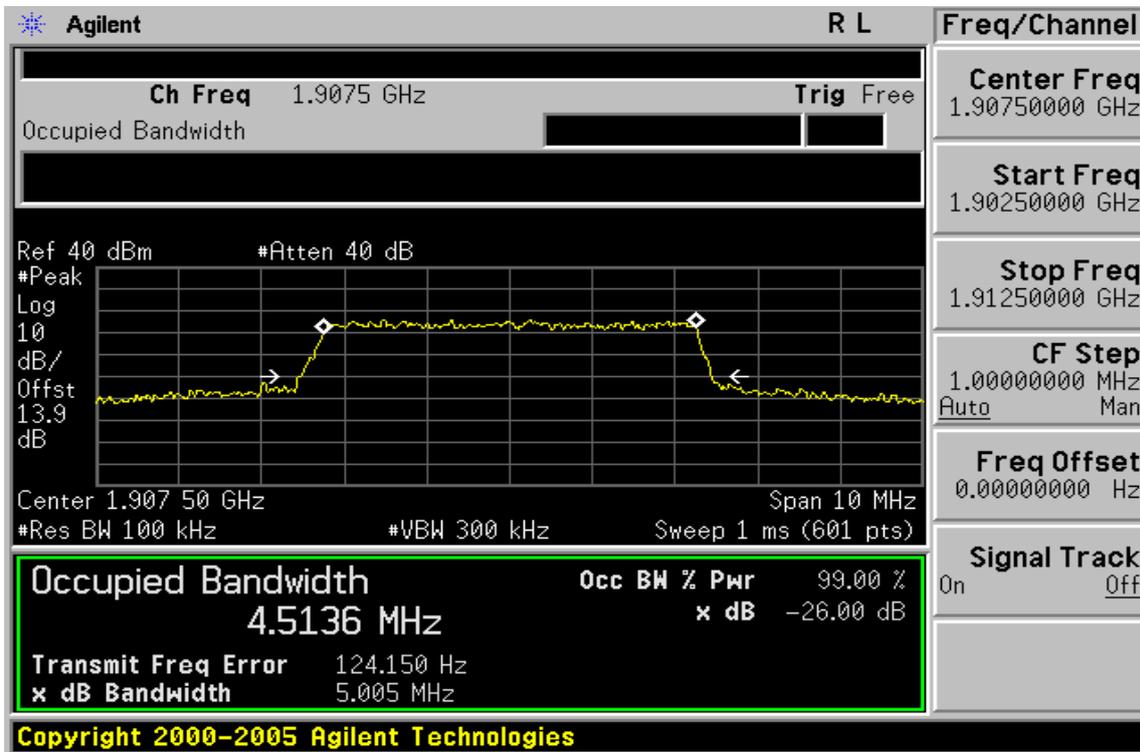
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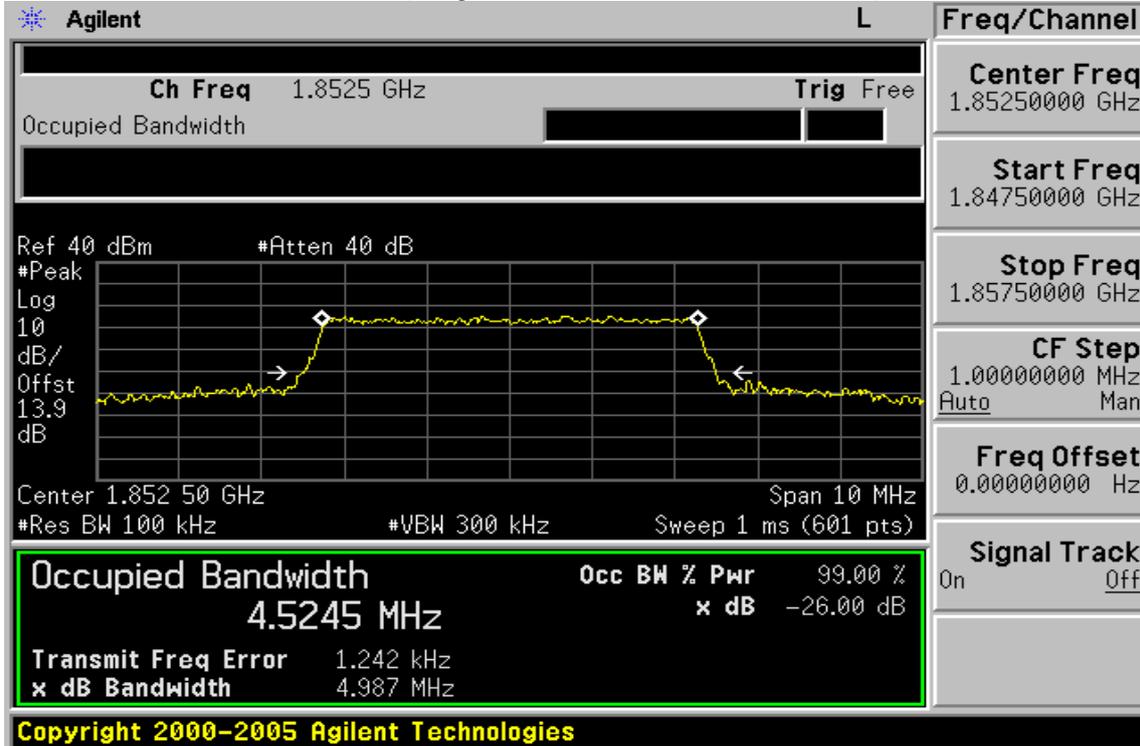
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Low



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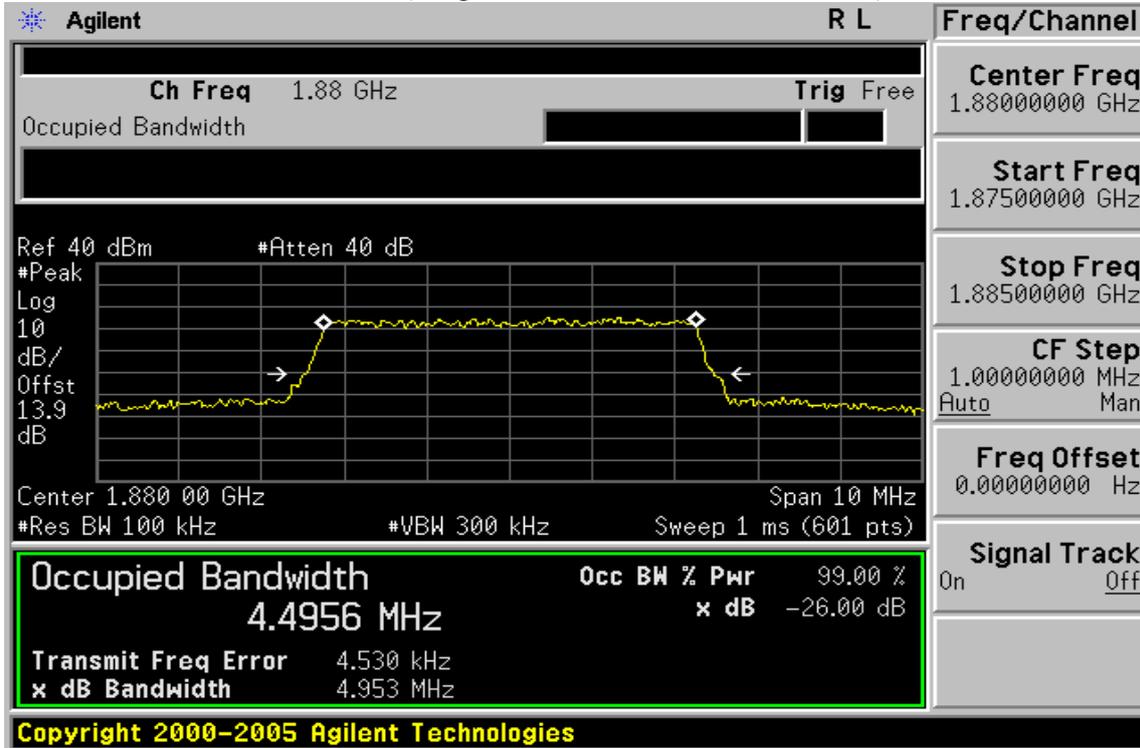
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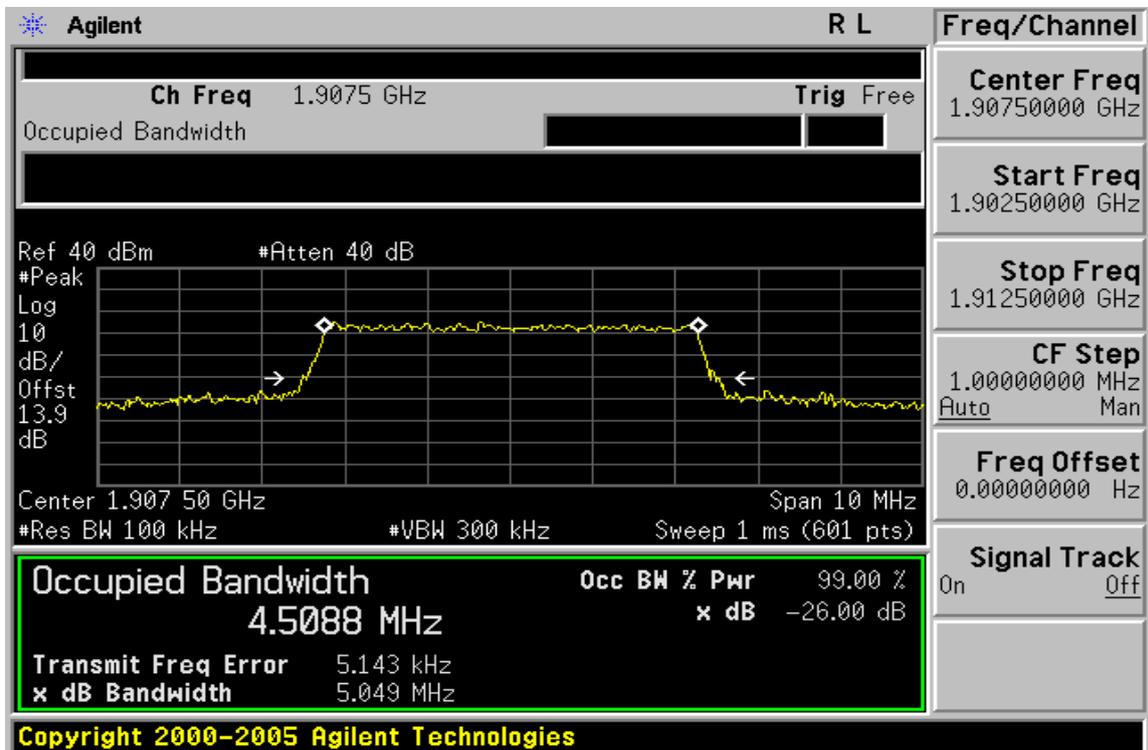
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5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel High



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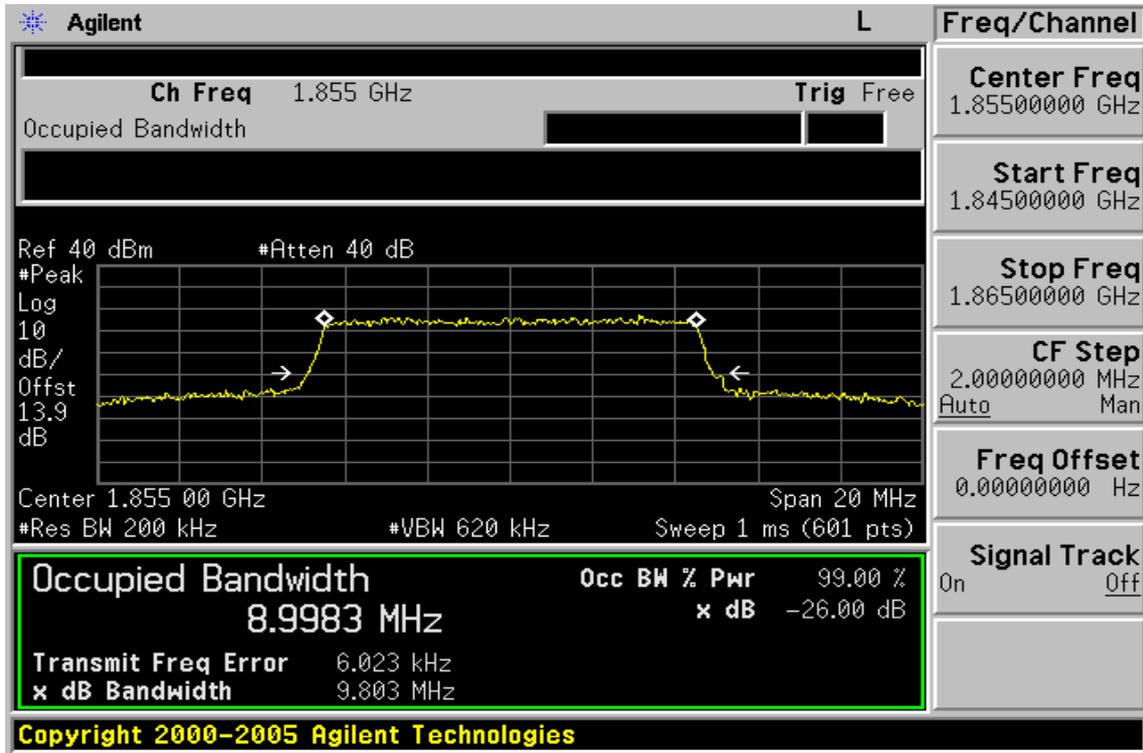
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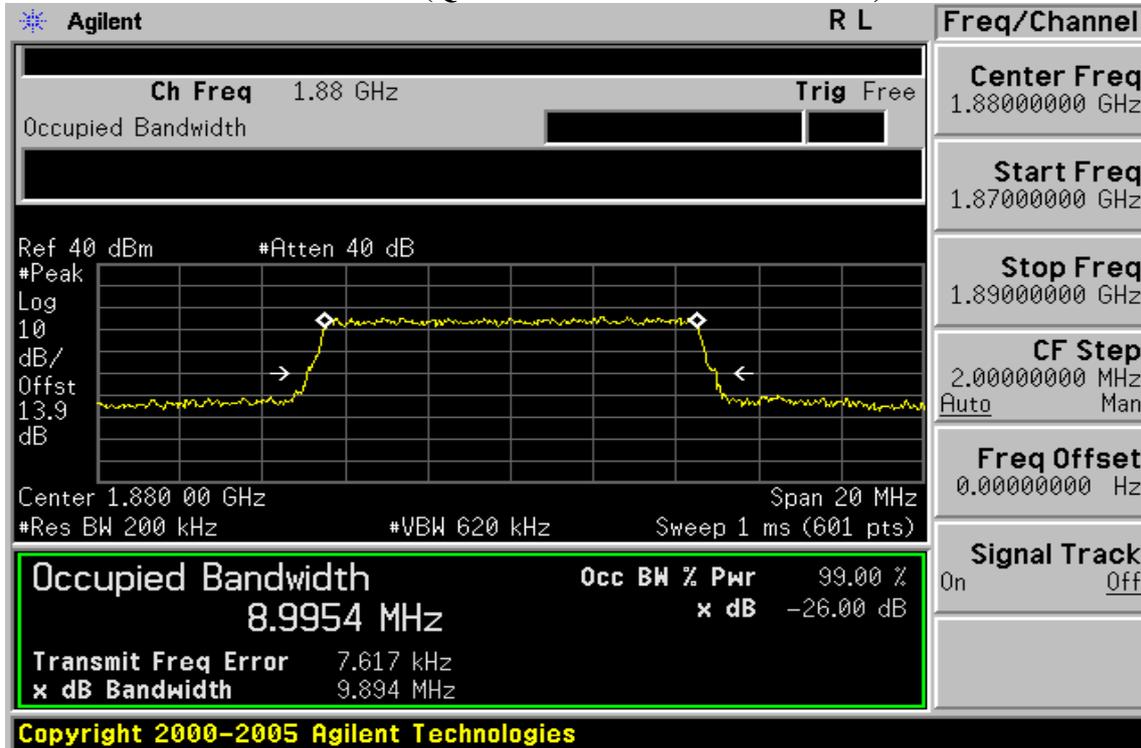
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10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Mid



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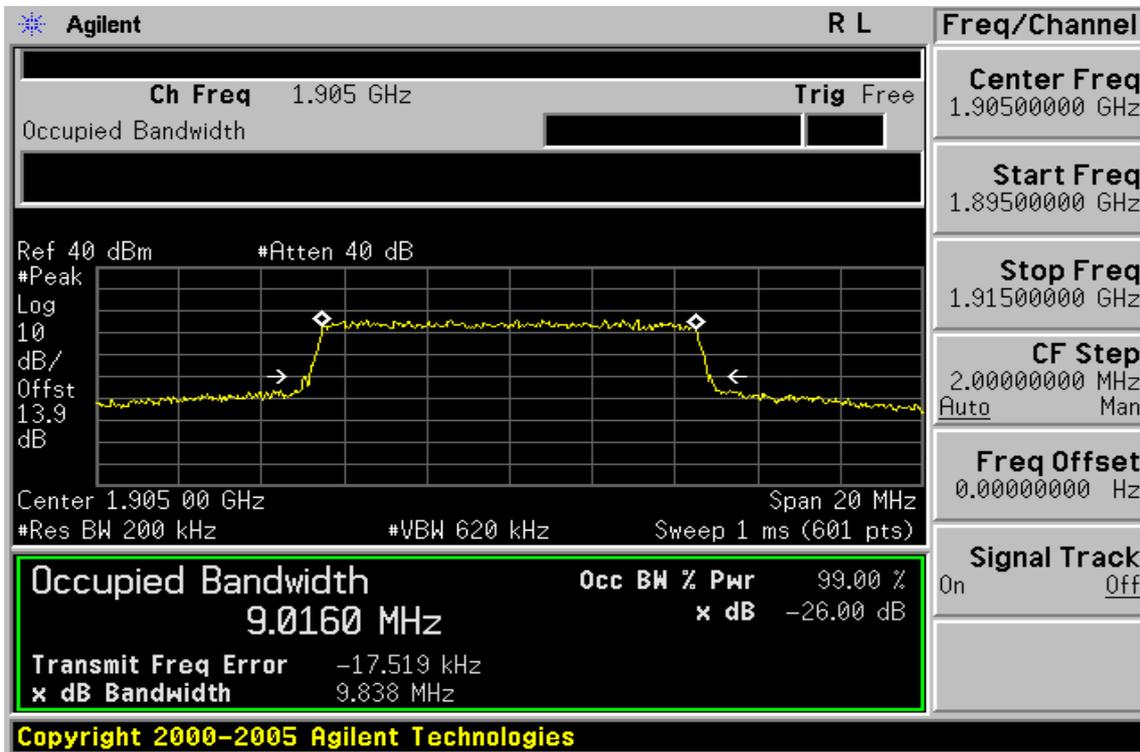
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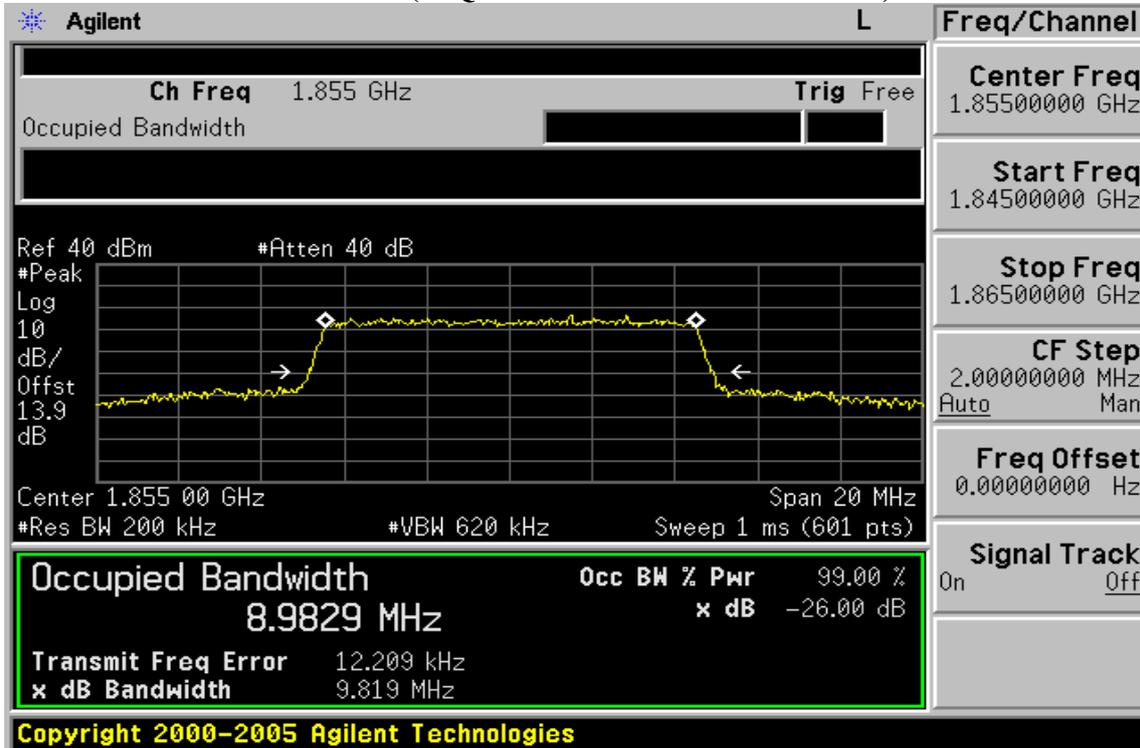
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10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Low



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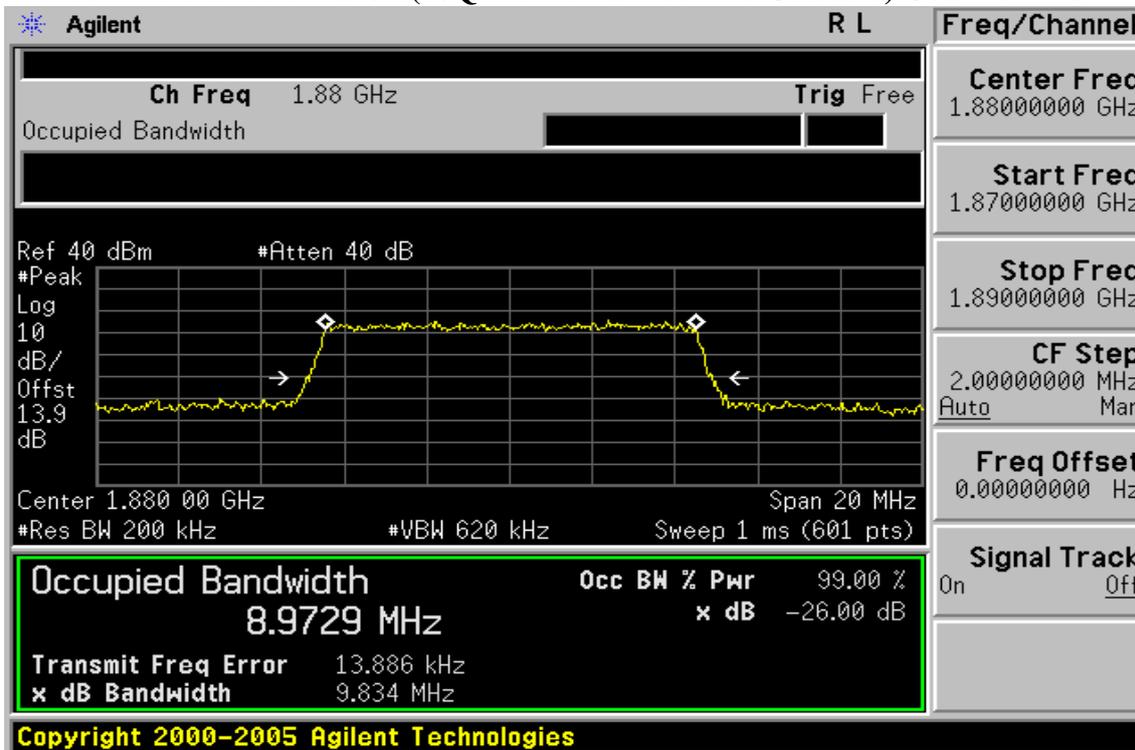
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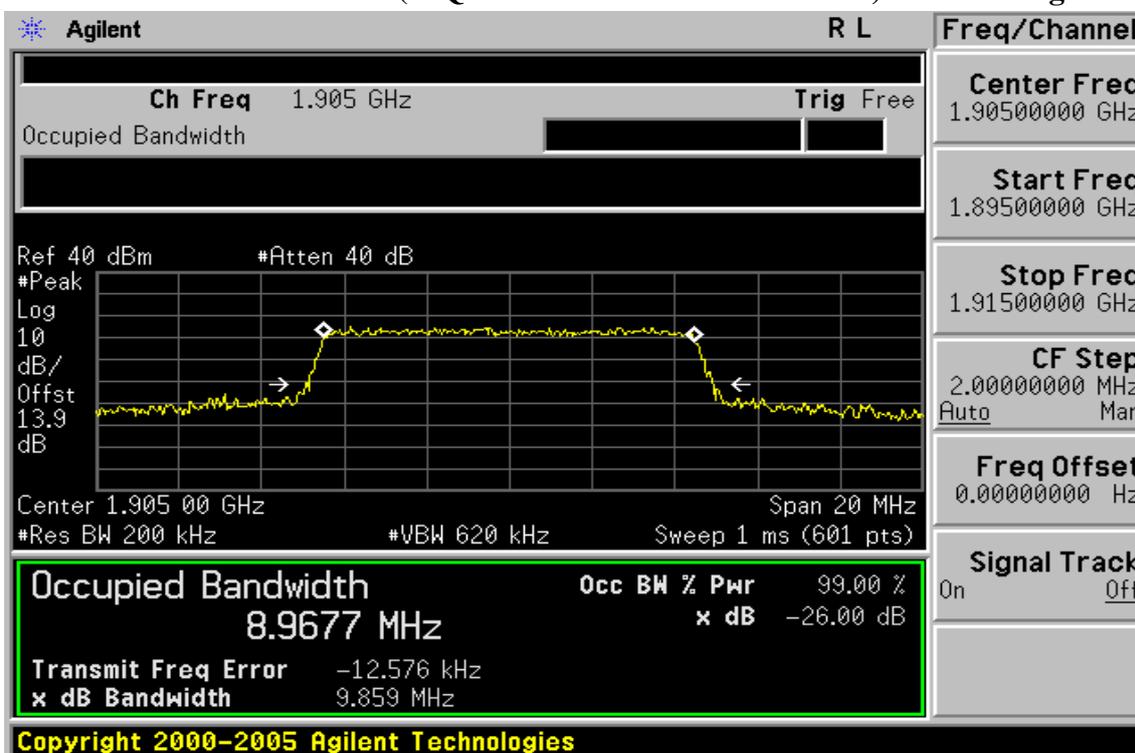
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10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel High



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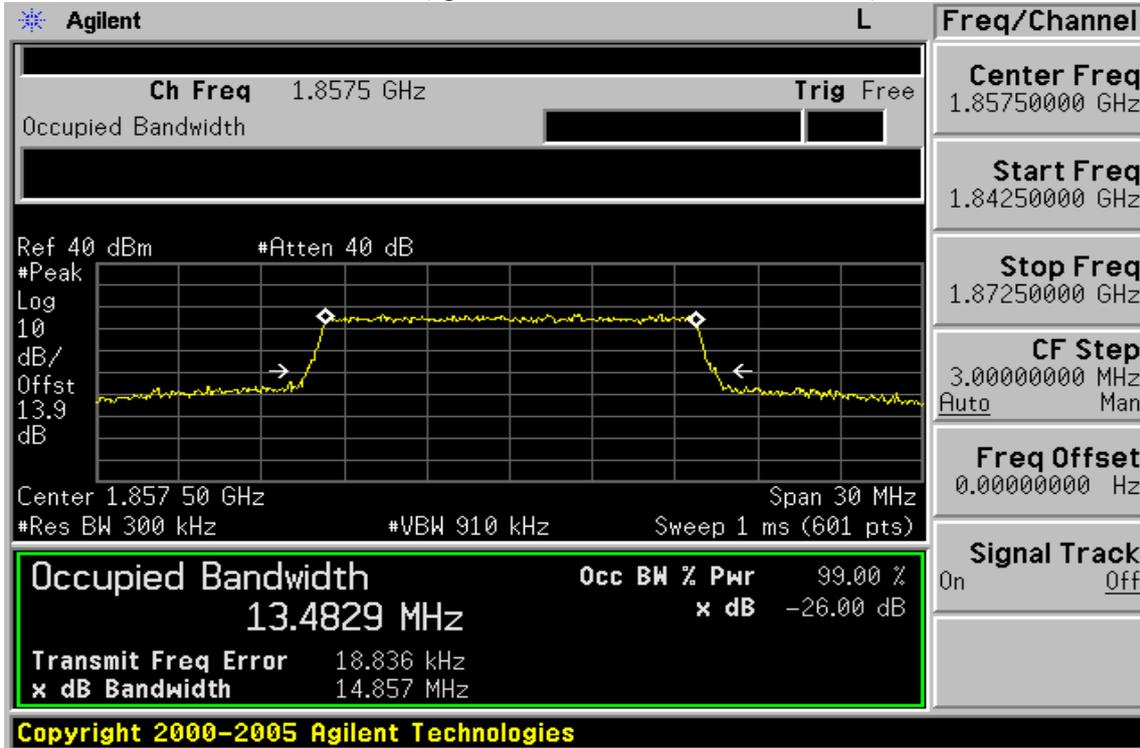
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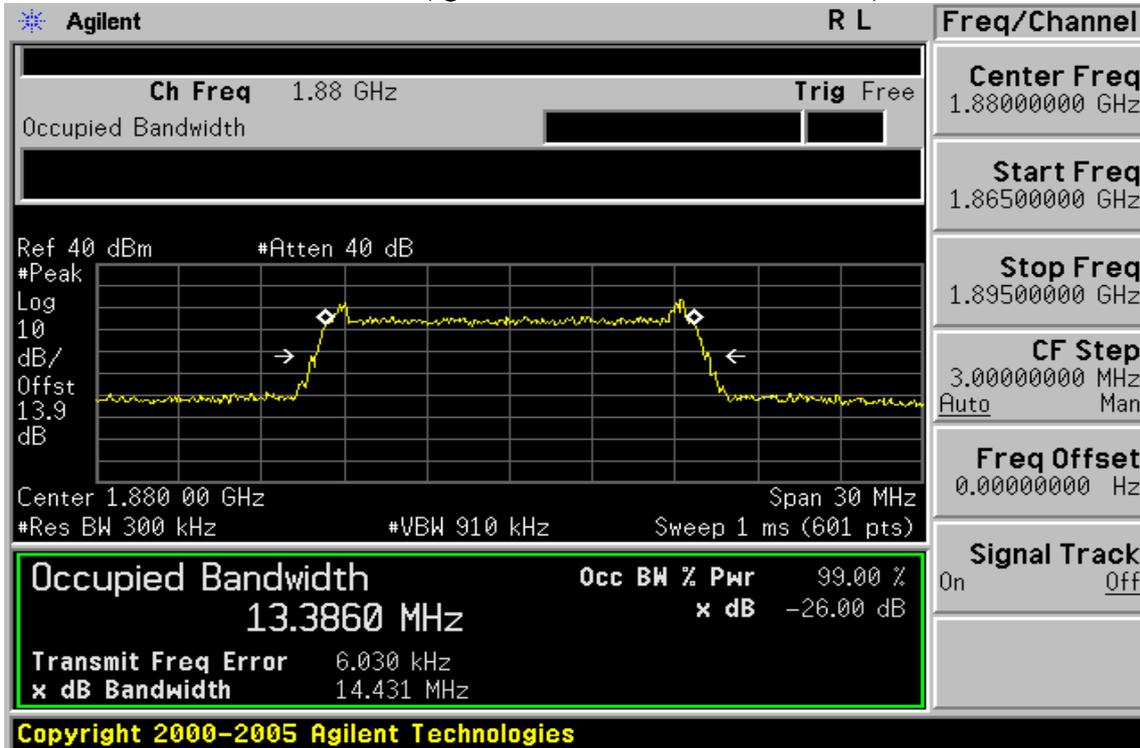
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Mid



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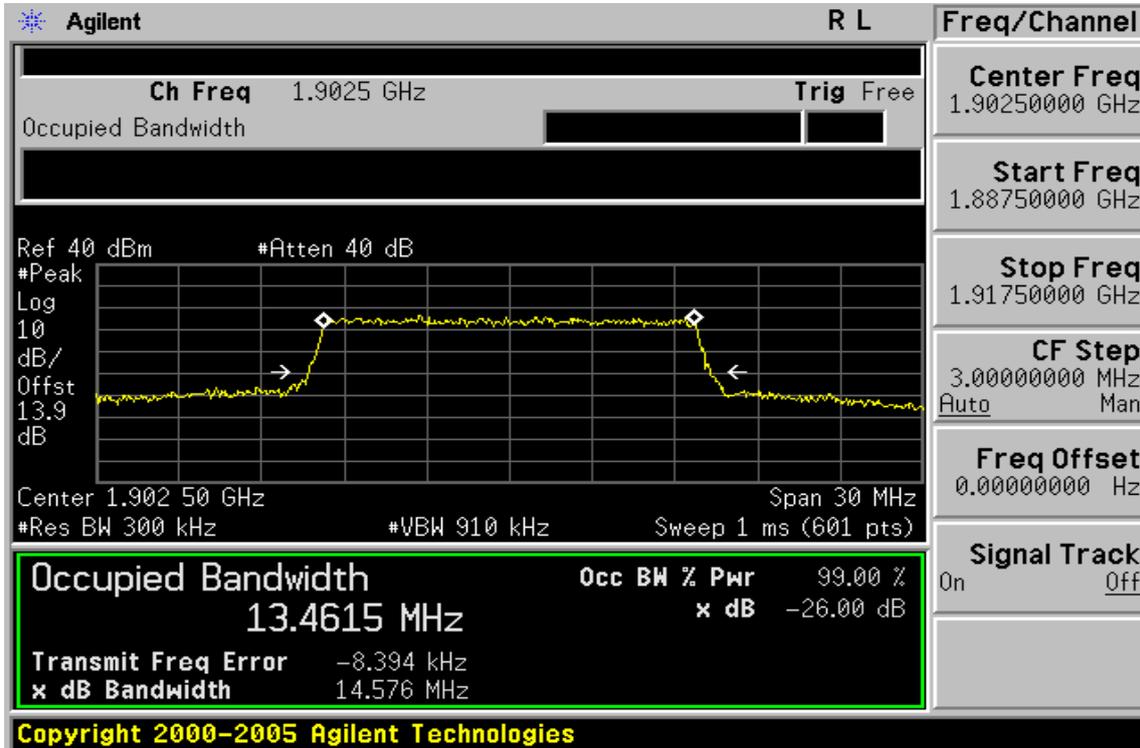
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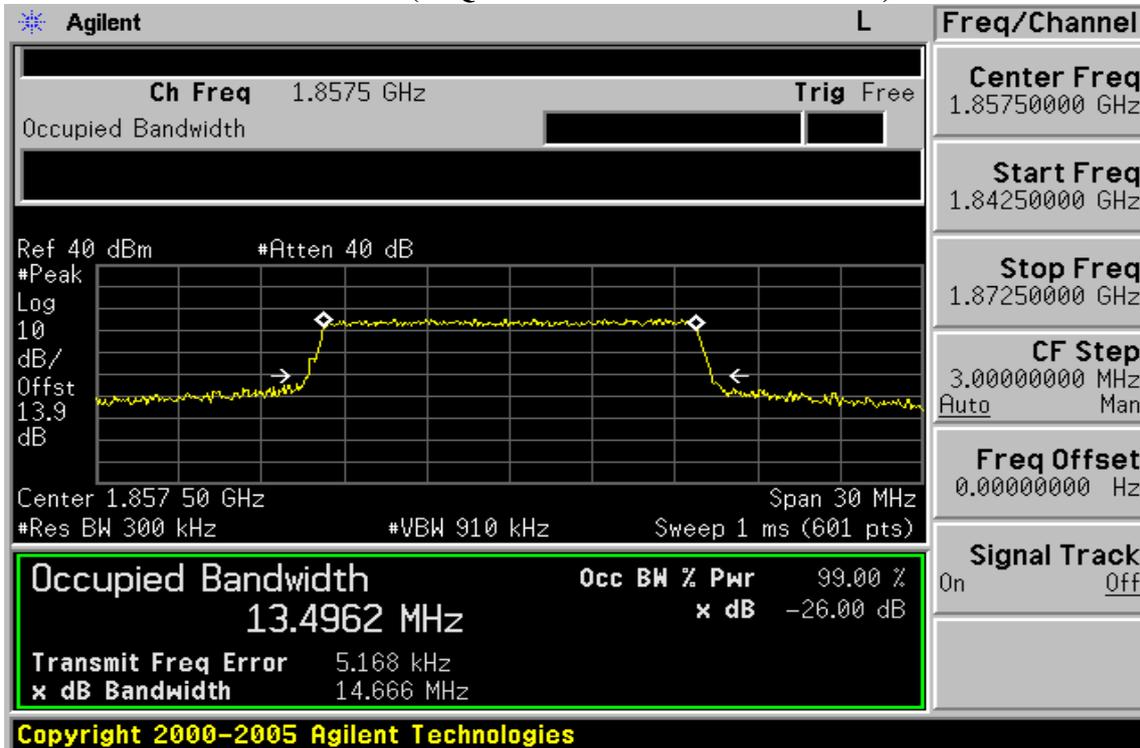
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Low



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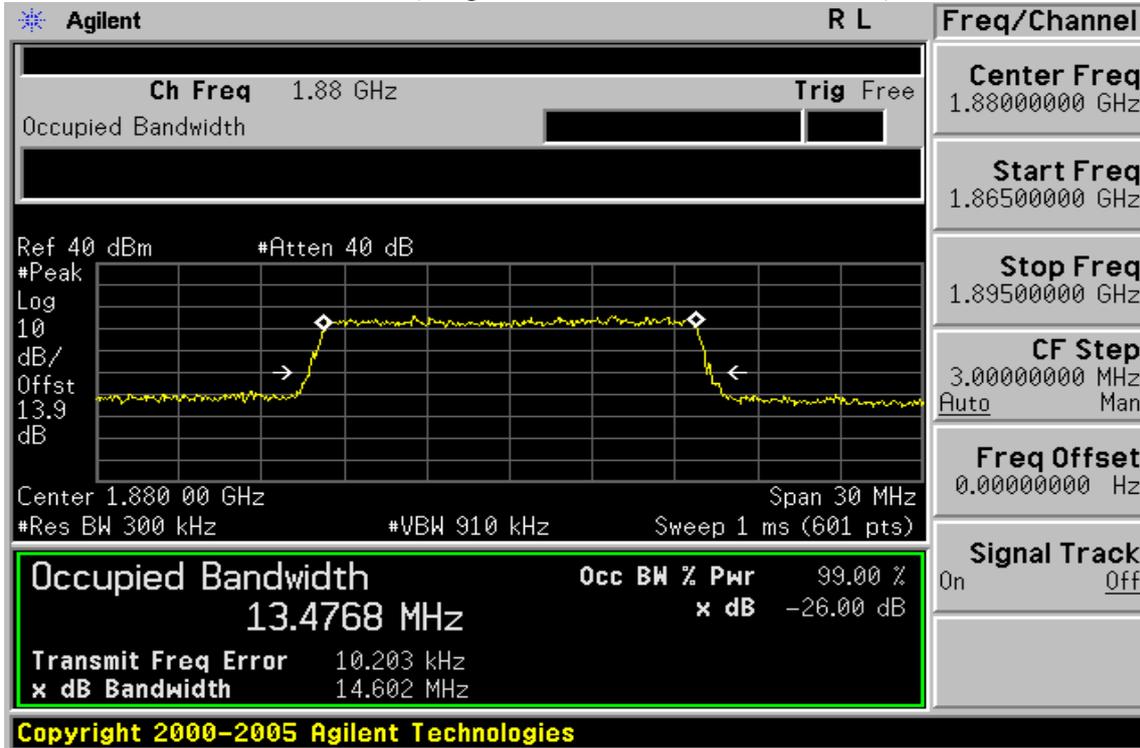
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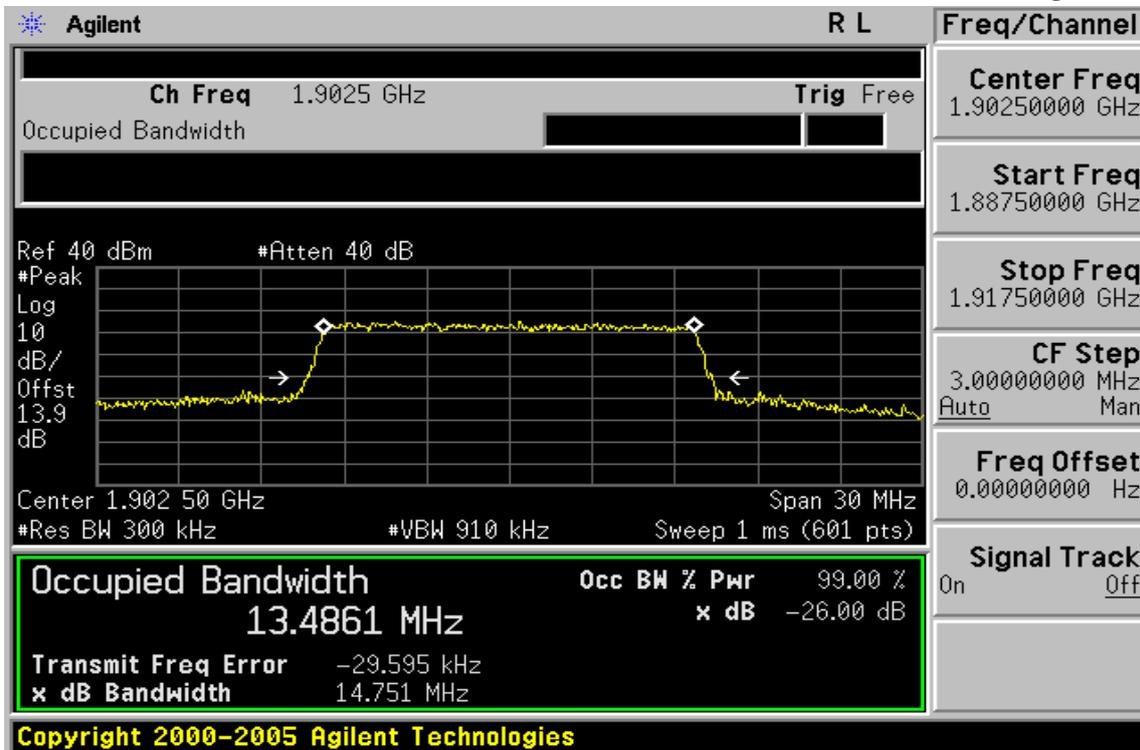
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15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel High



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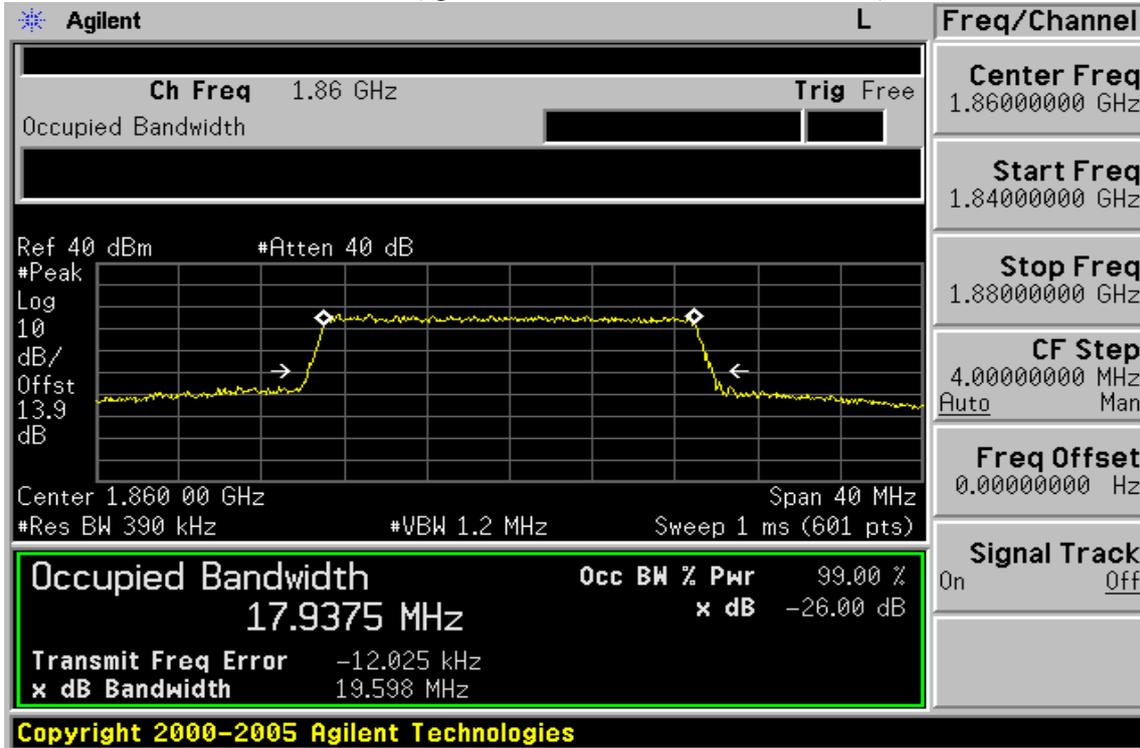
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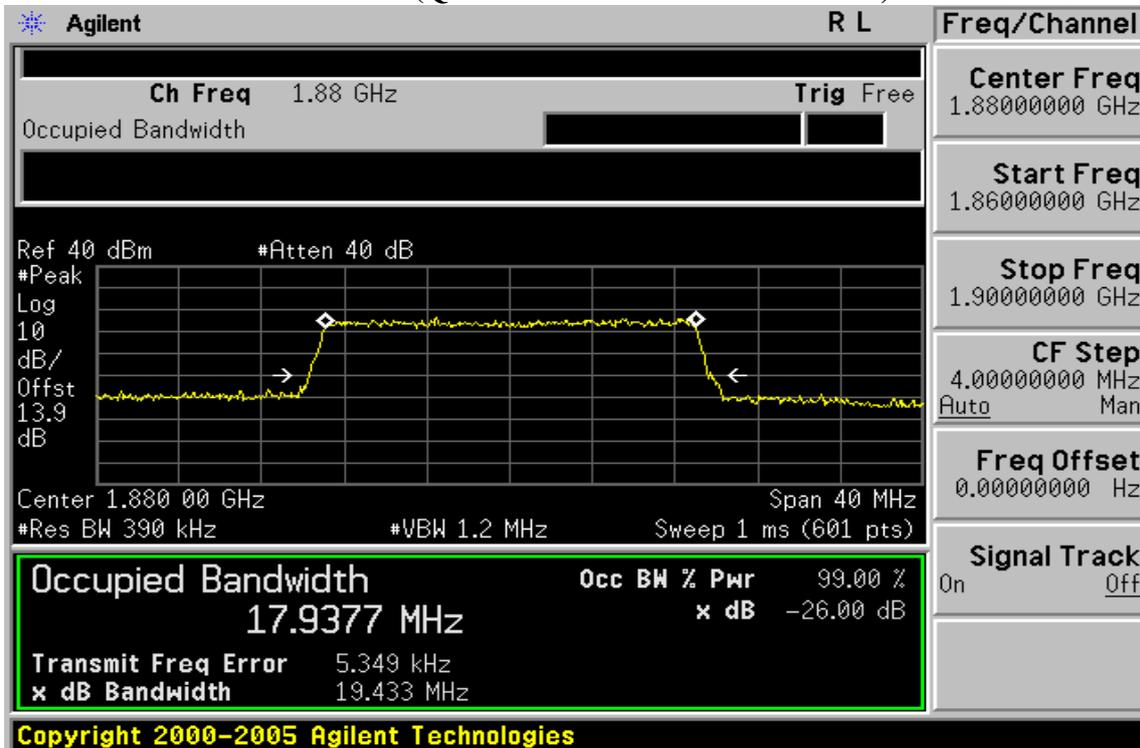
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Mid



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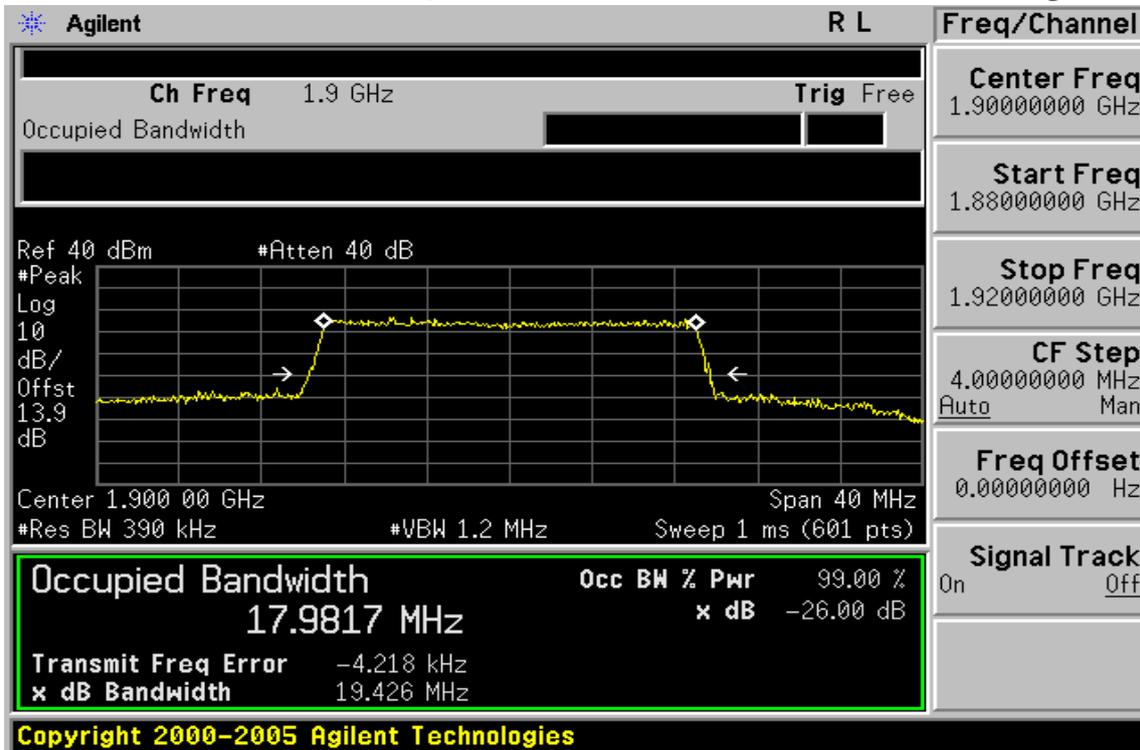
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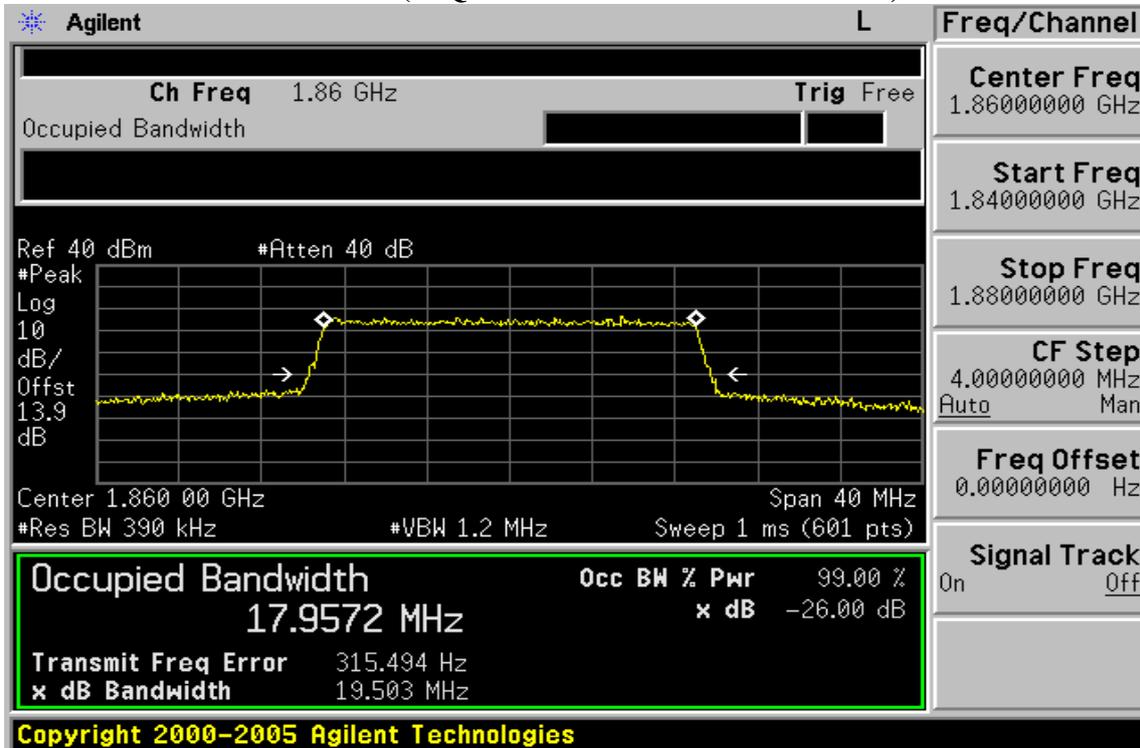
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Low

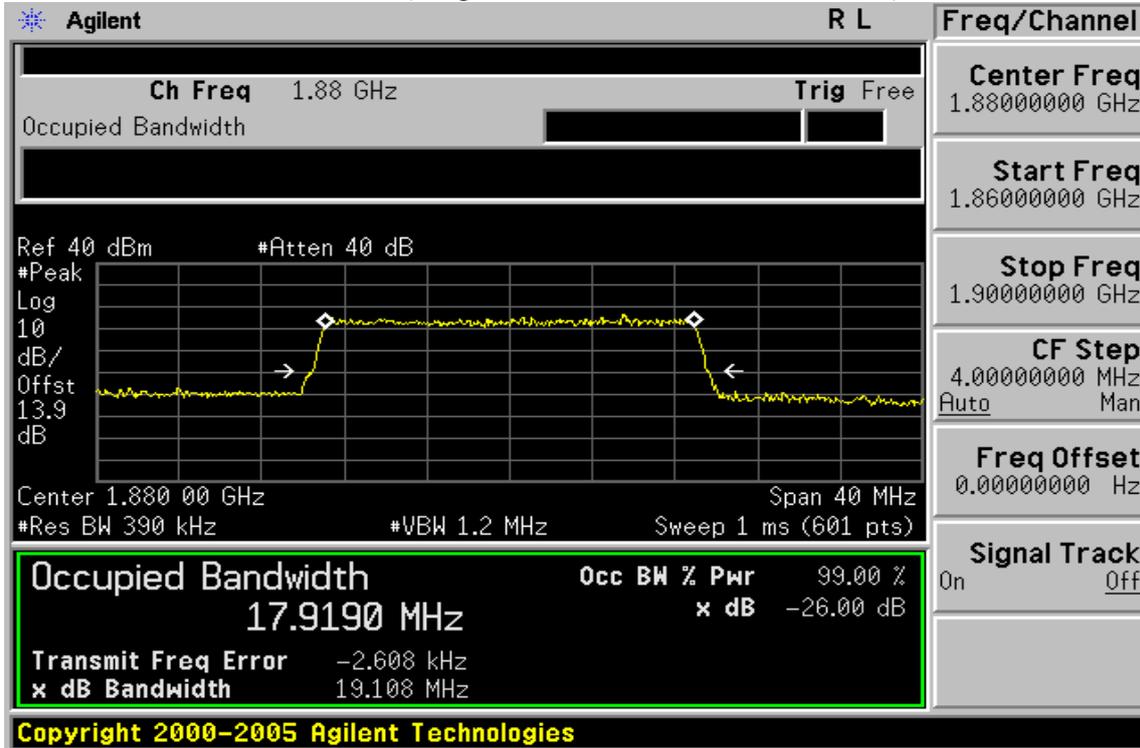


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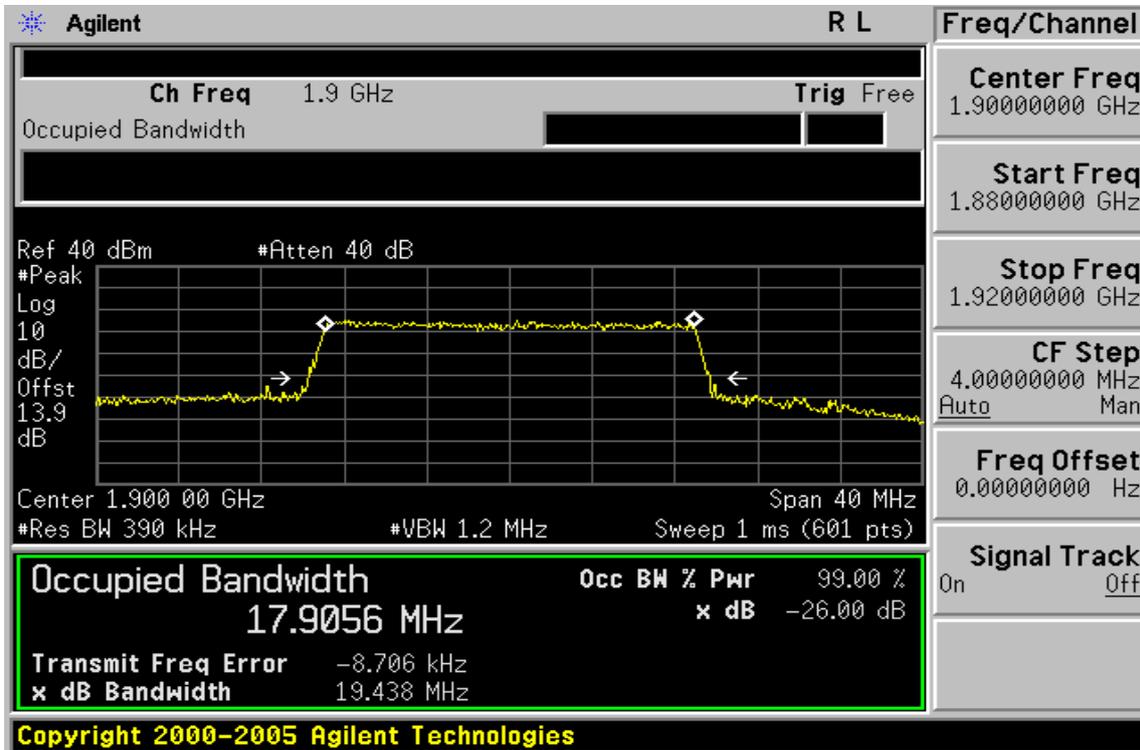
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20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel High



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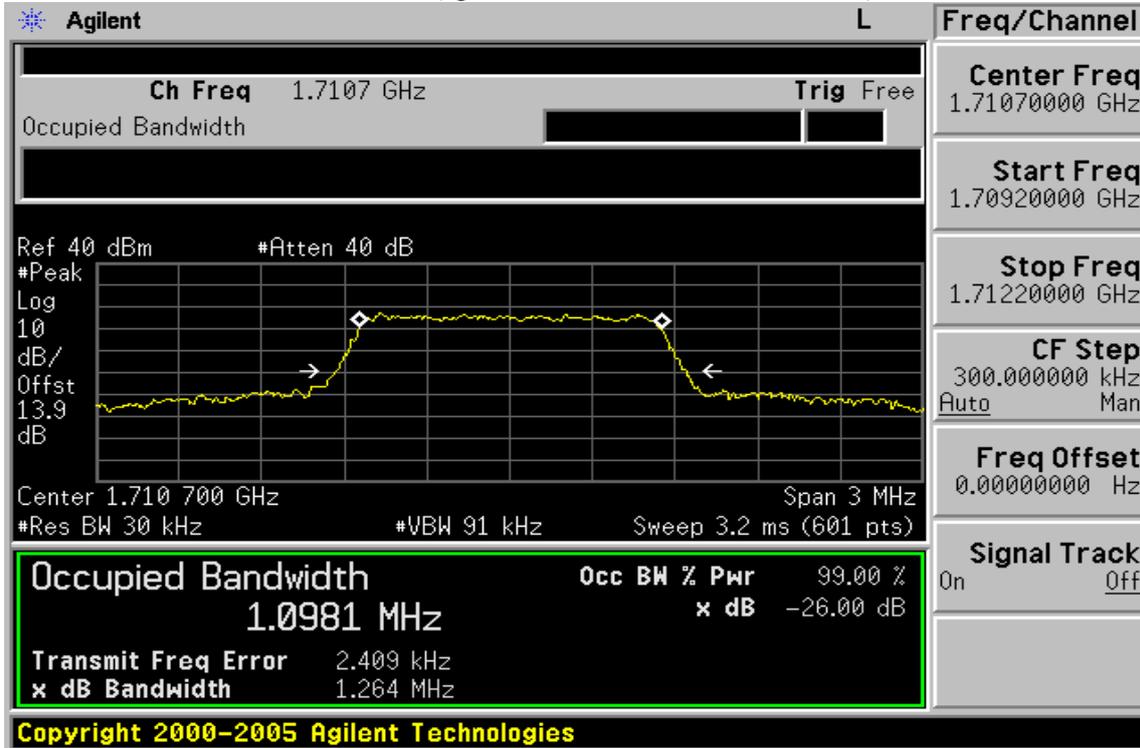
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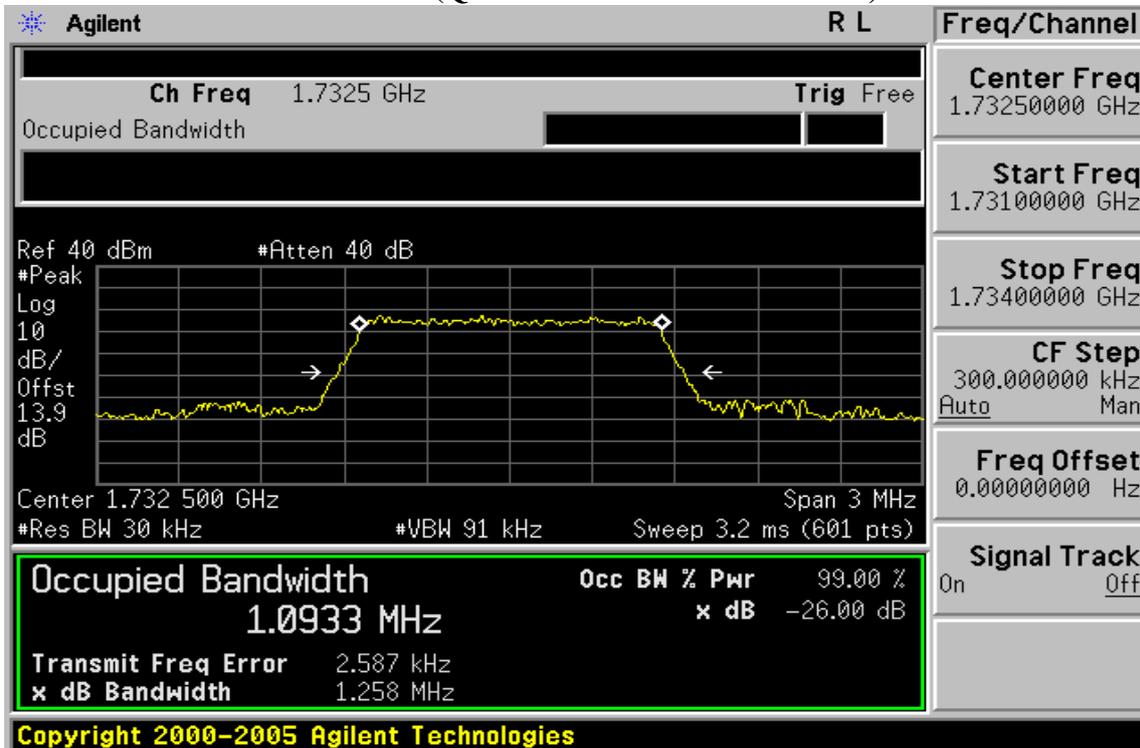
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Mid



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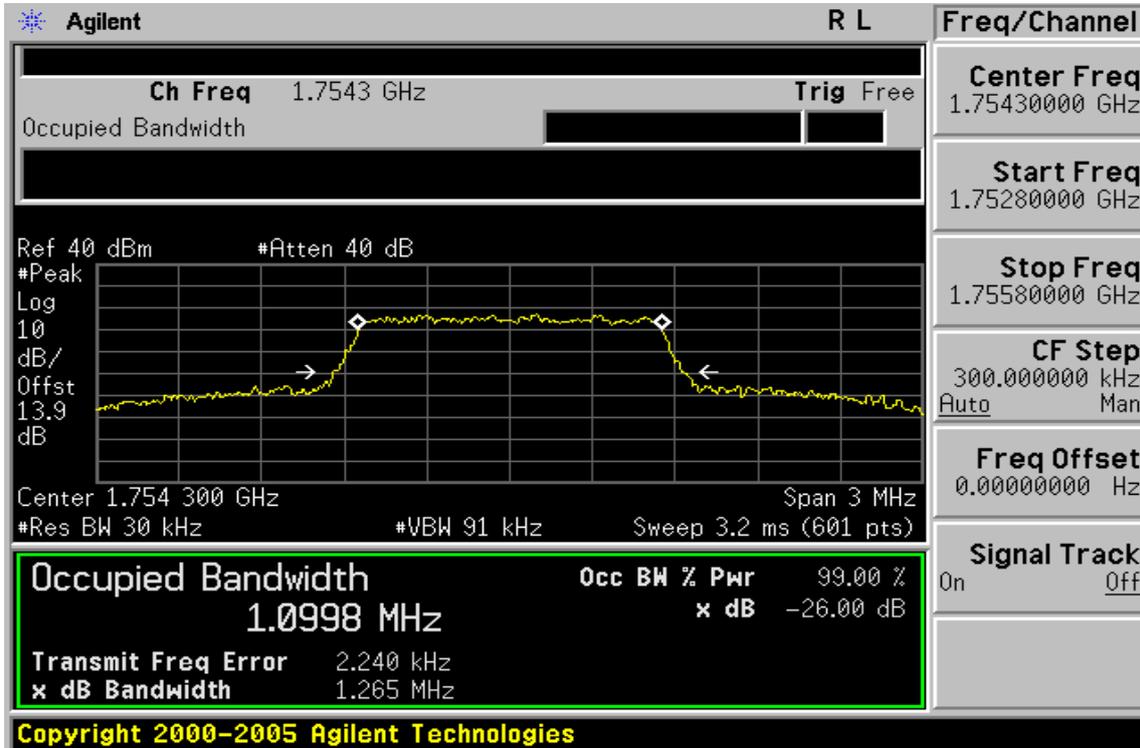
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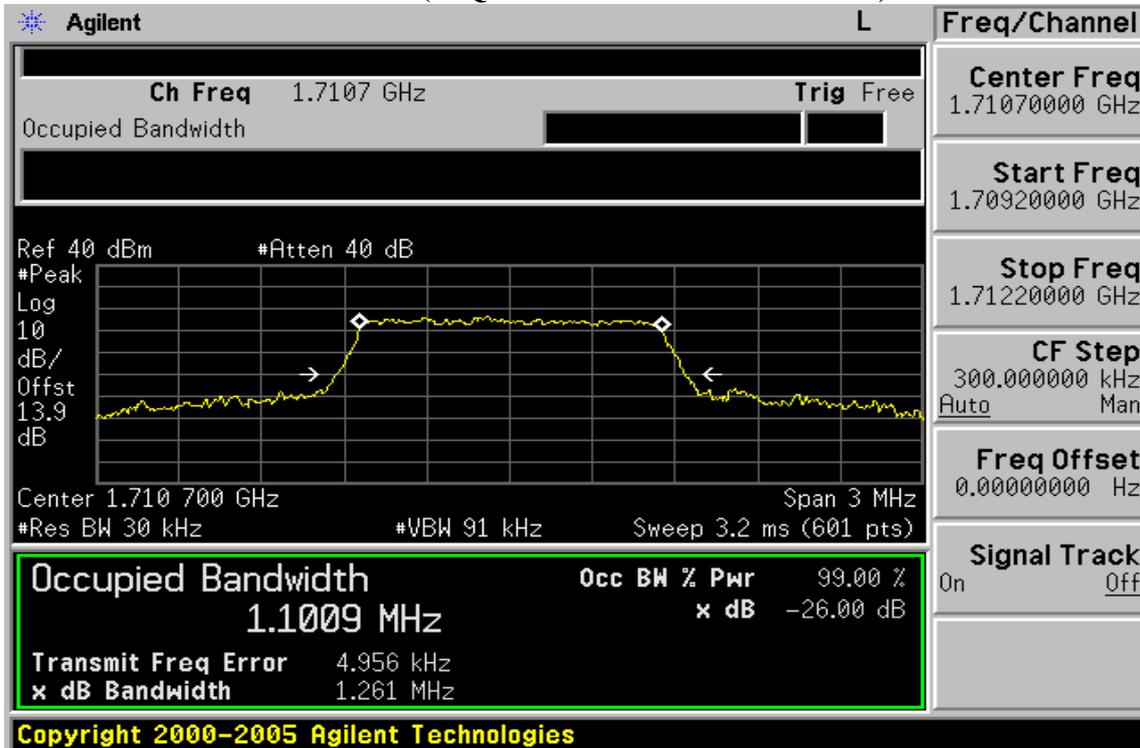
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Low



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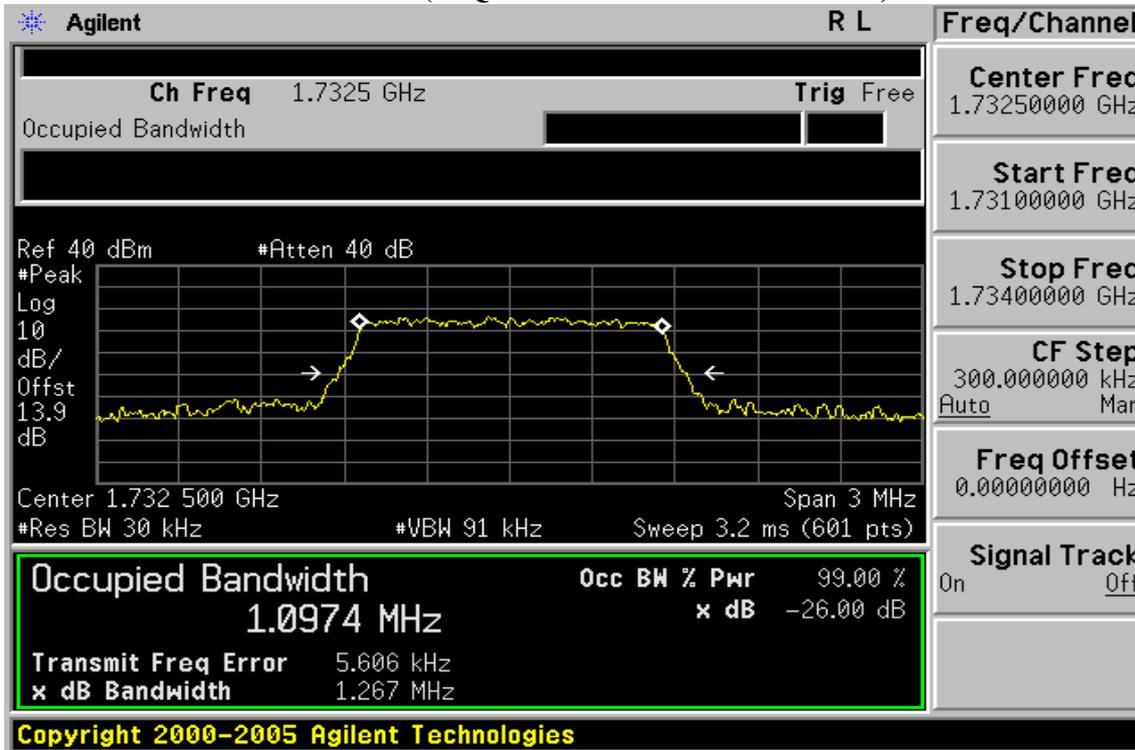
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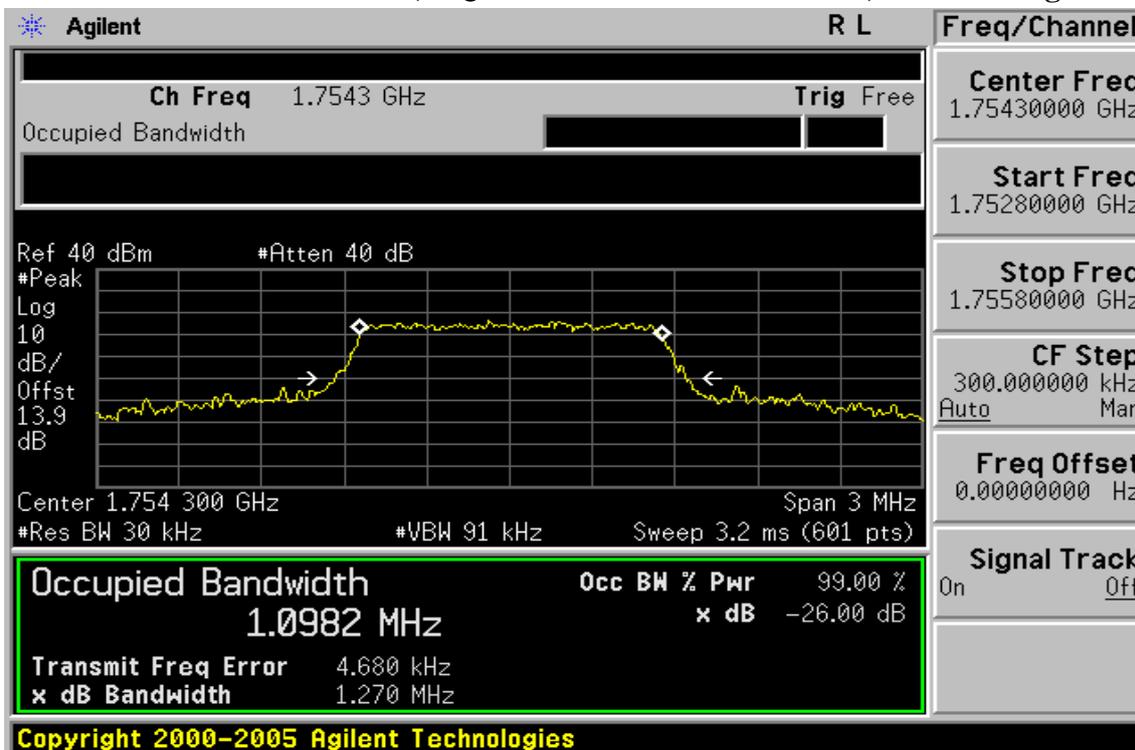
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1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel High



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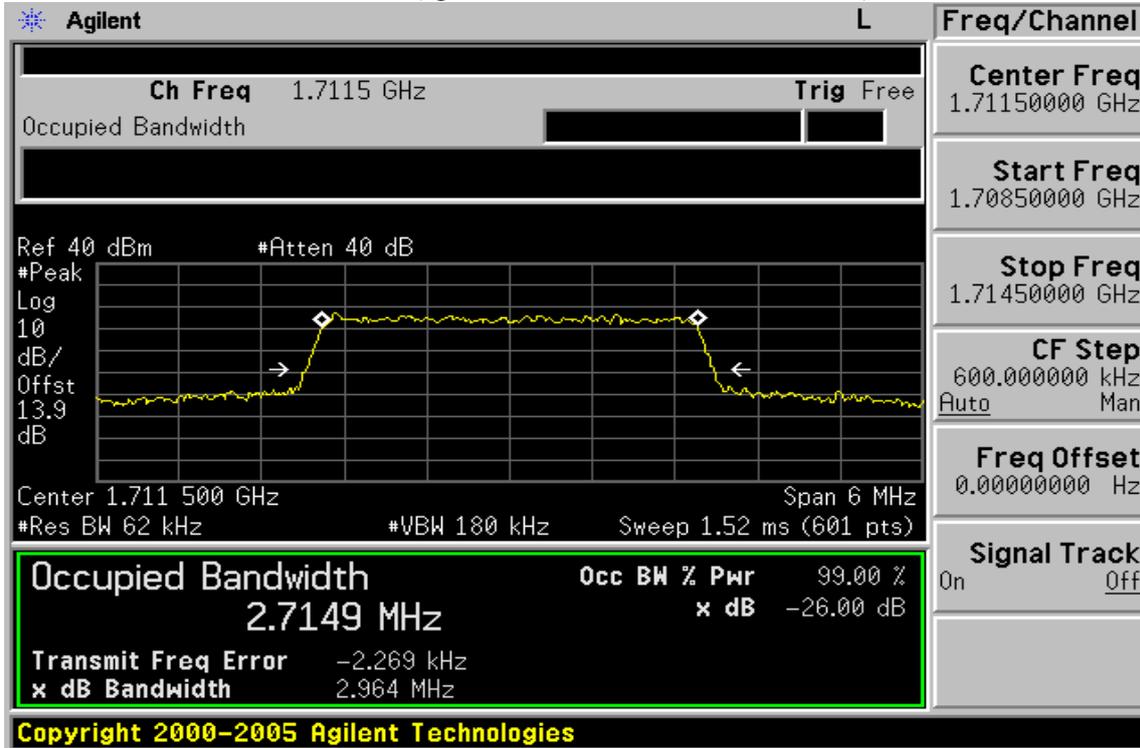
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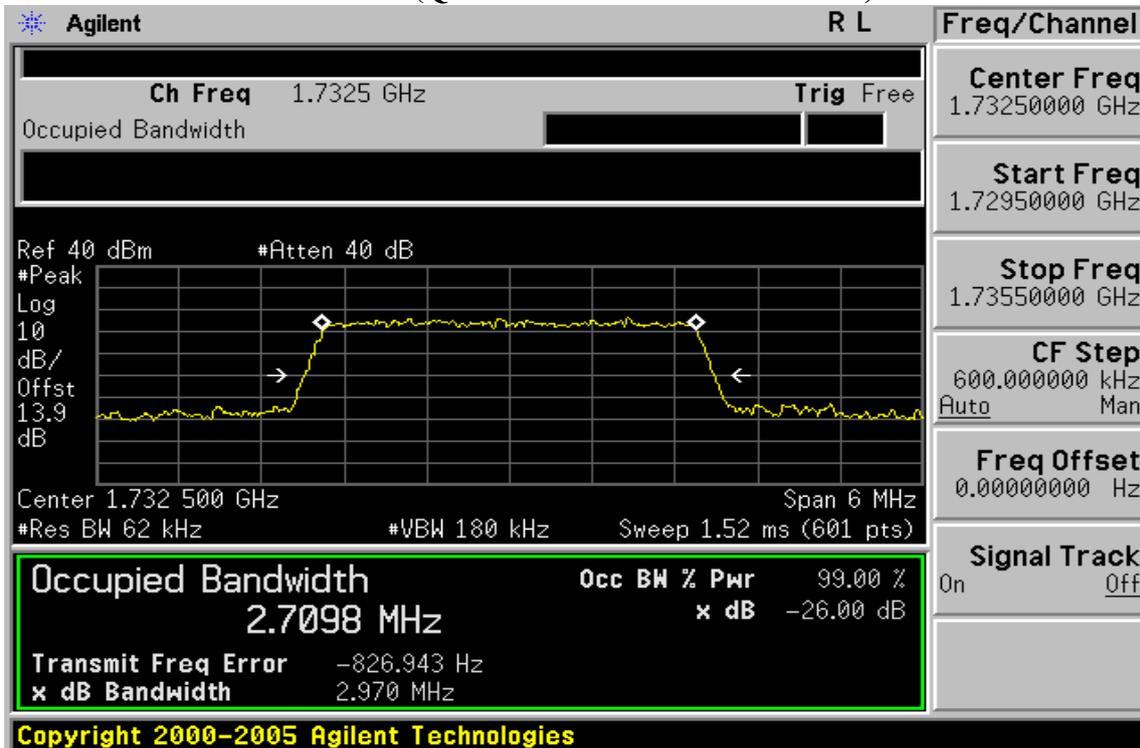
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Mid



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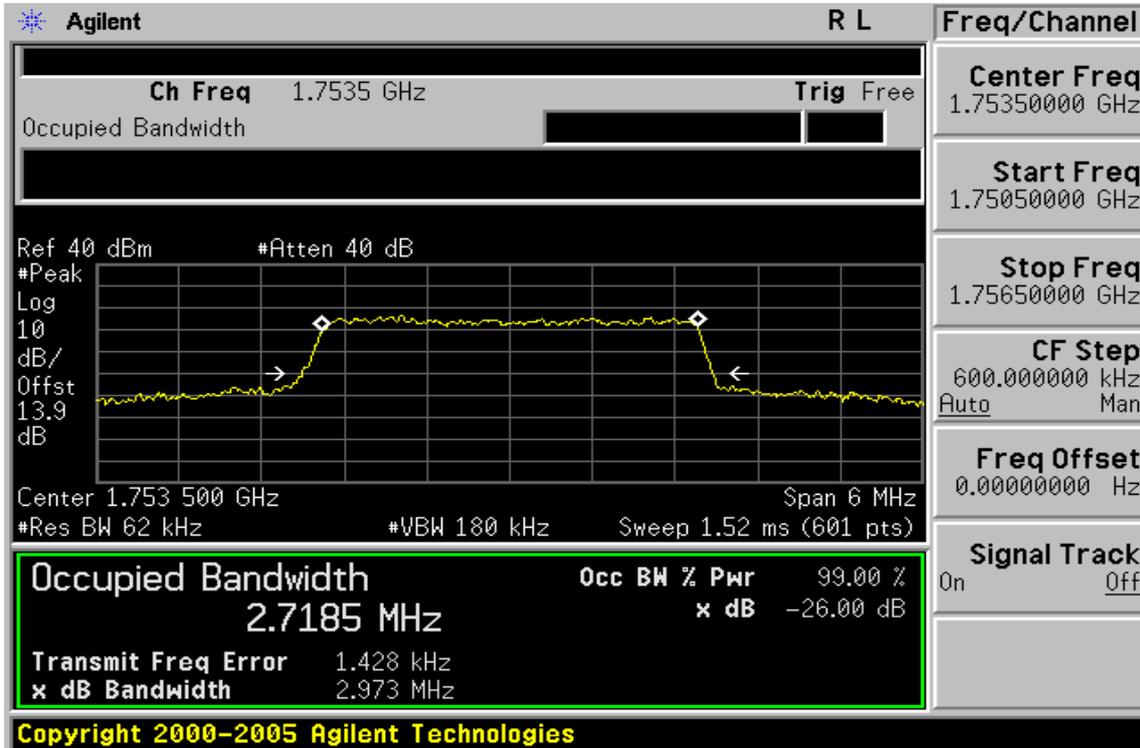
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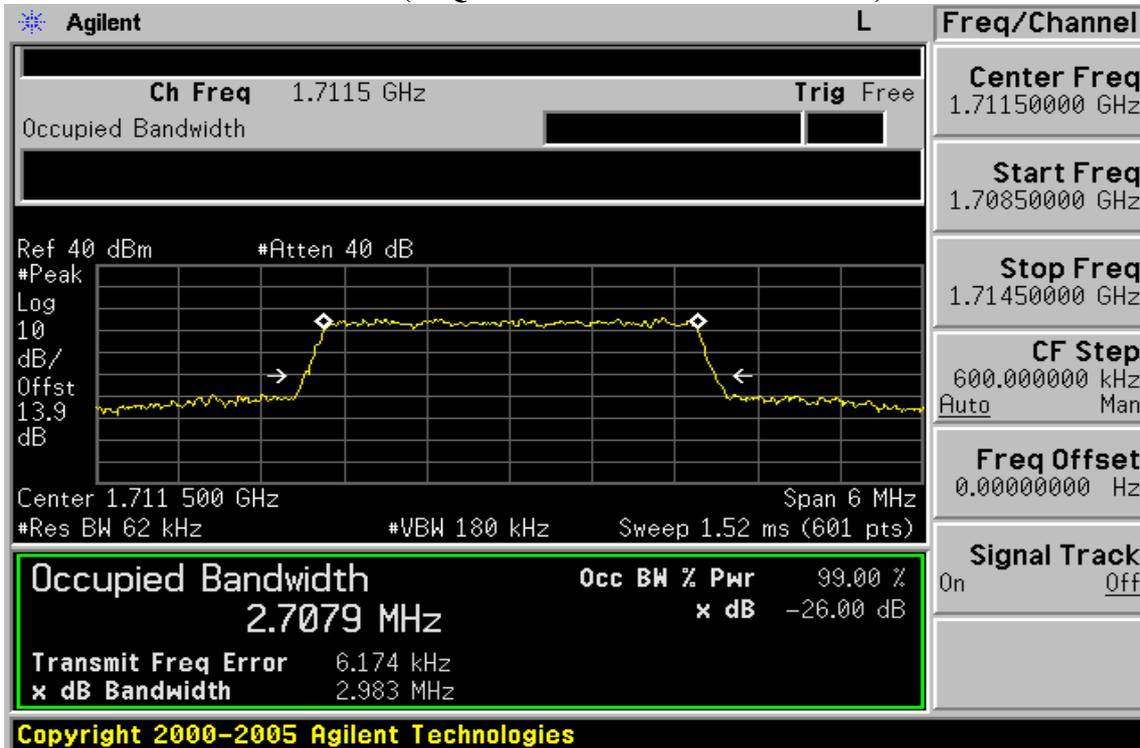
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Low



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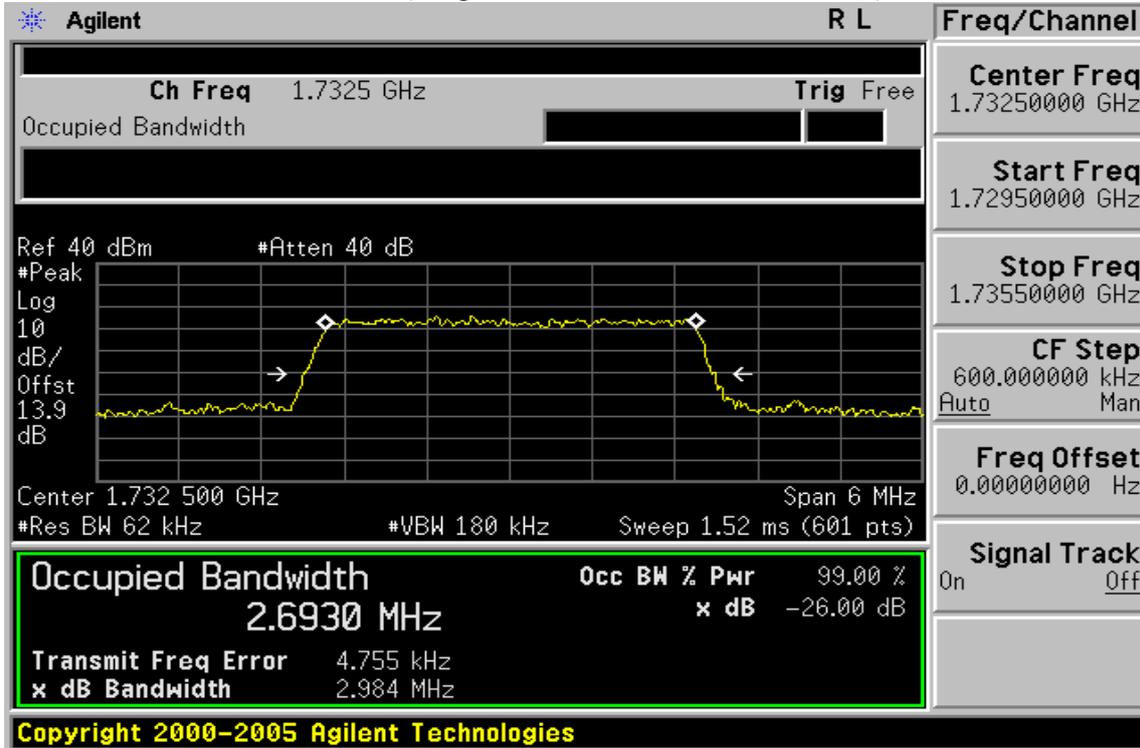
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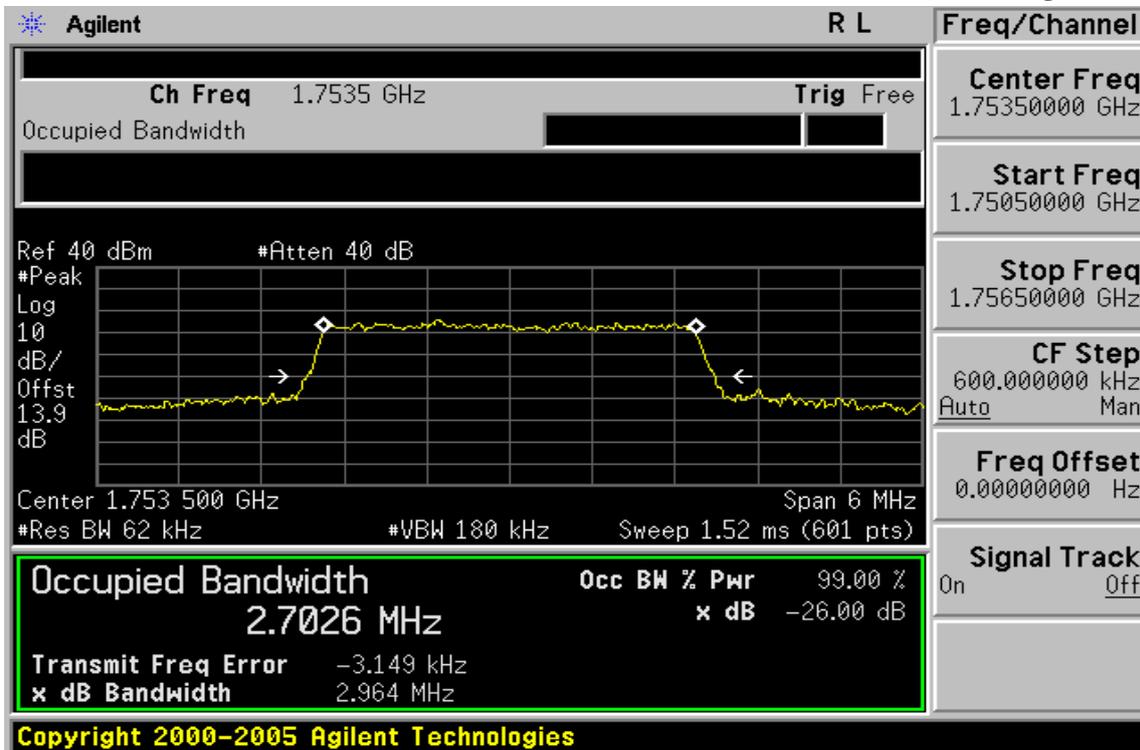
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3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel High



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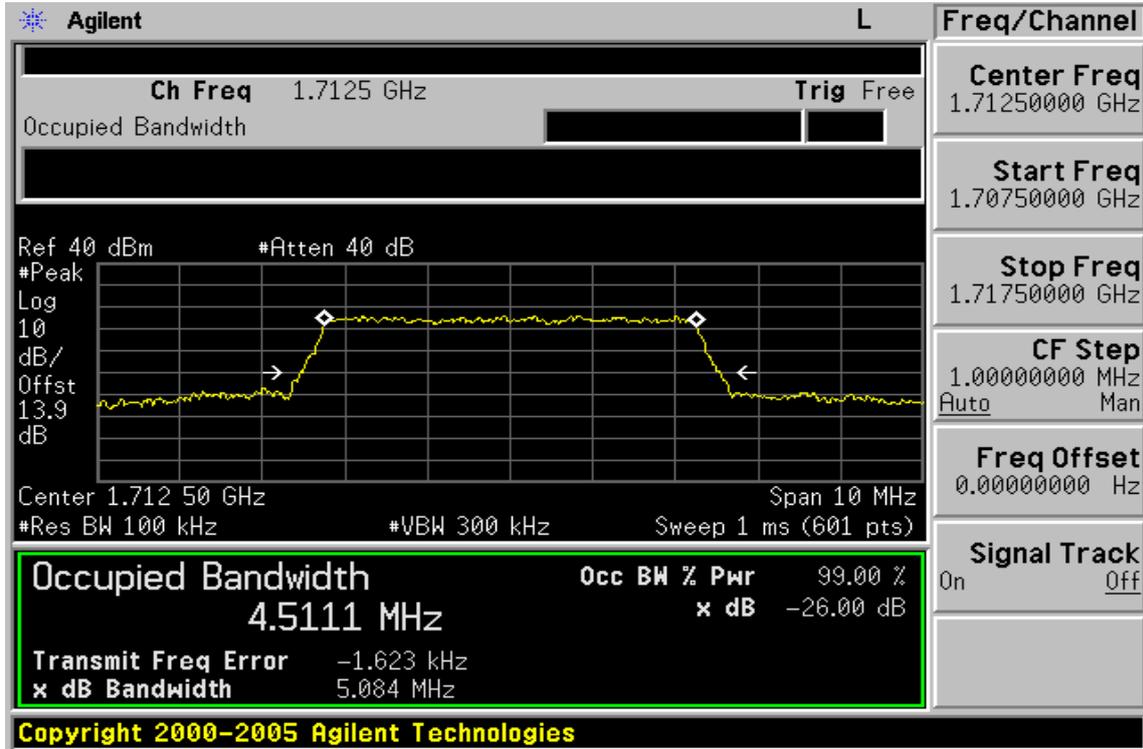
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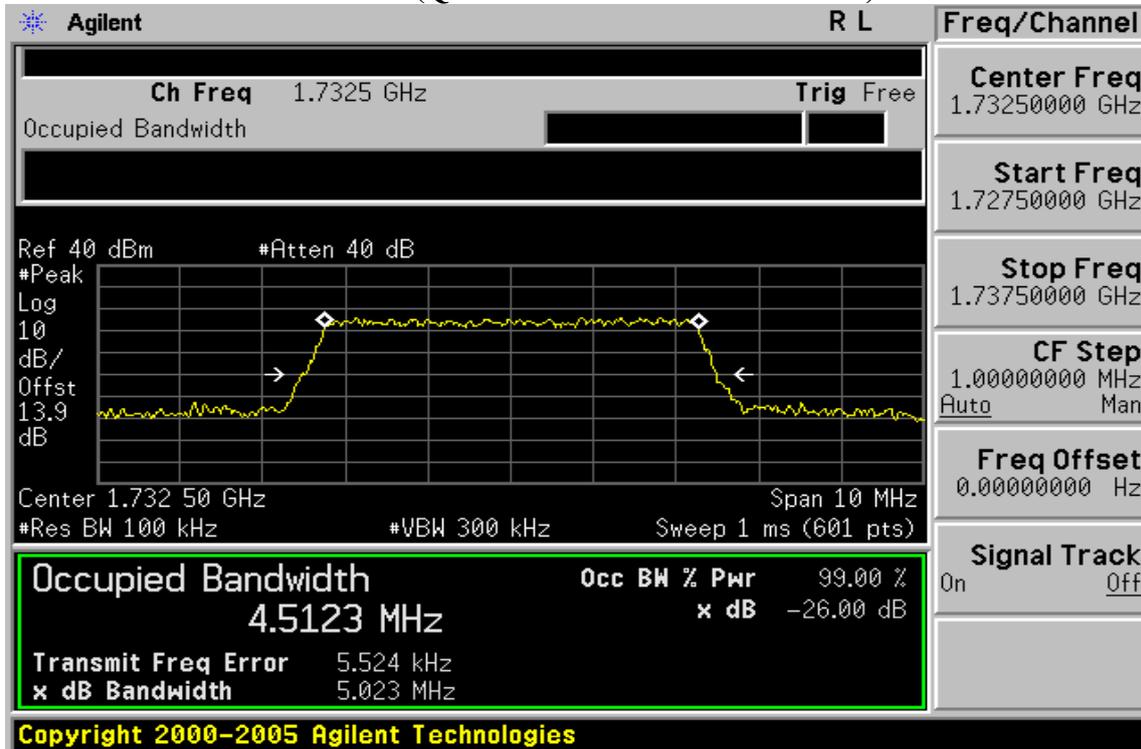
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Mid



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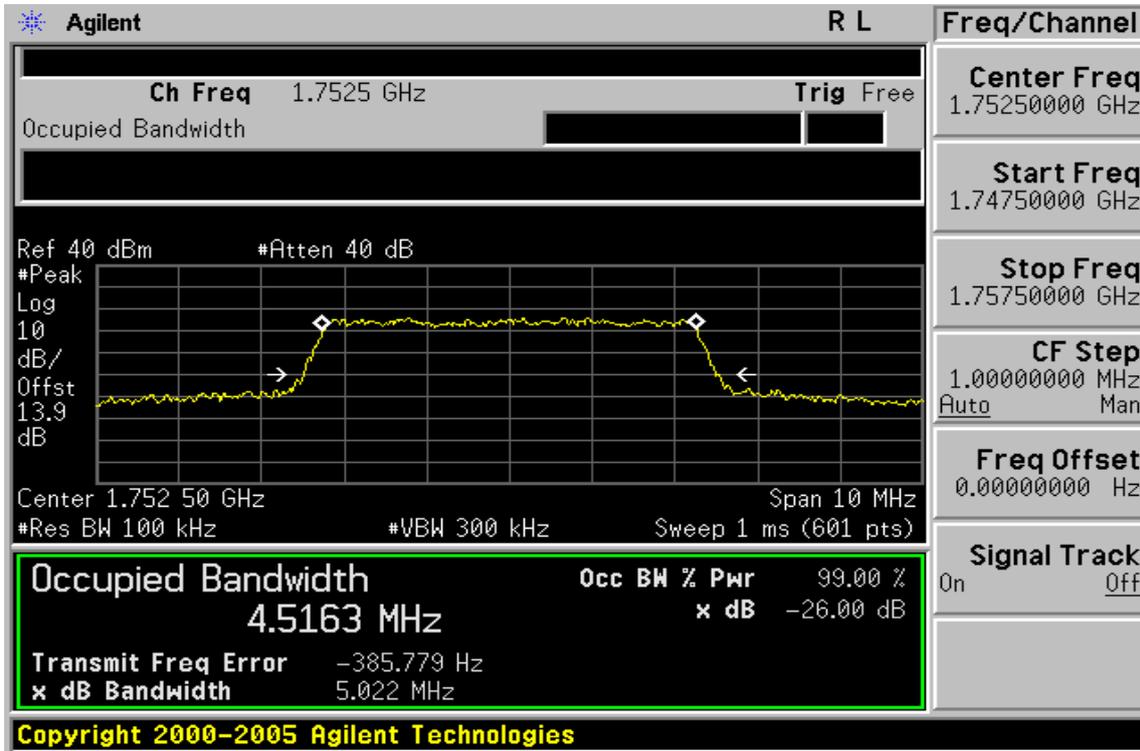
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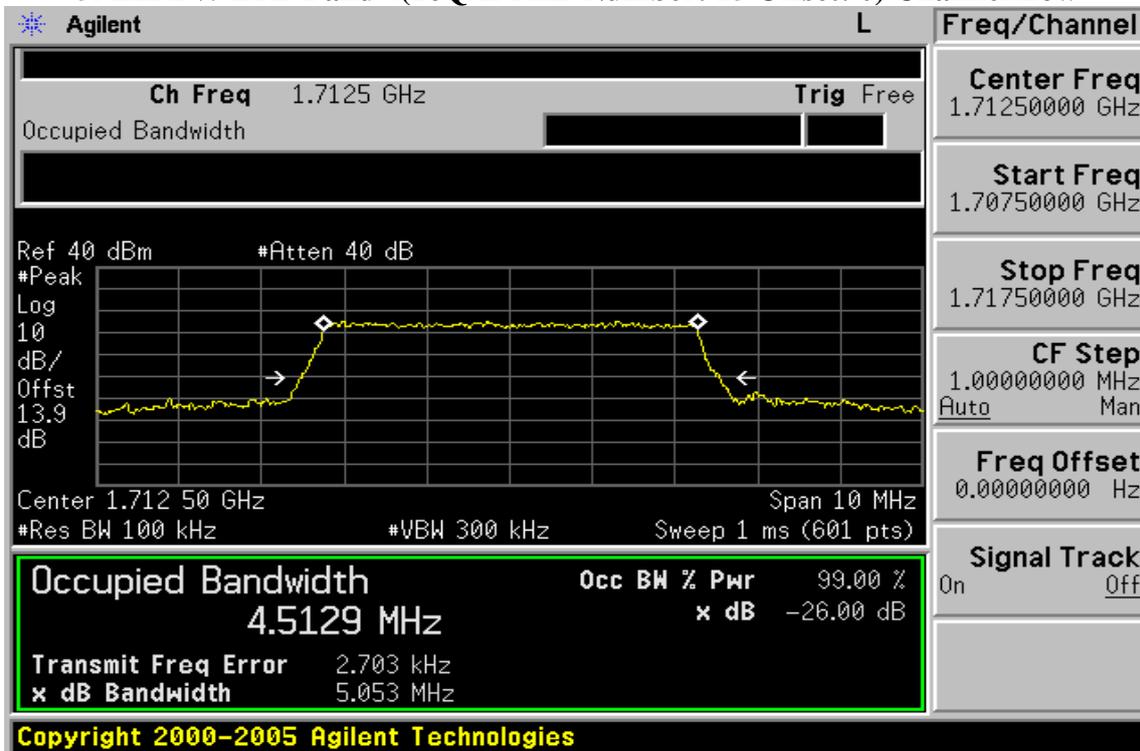
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Low



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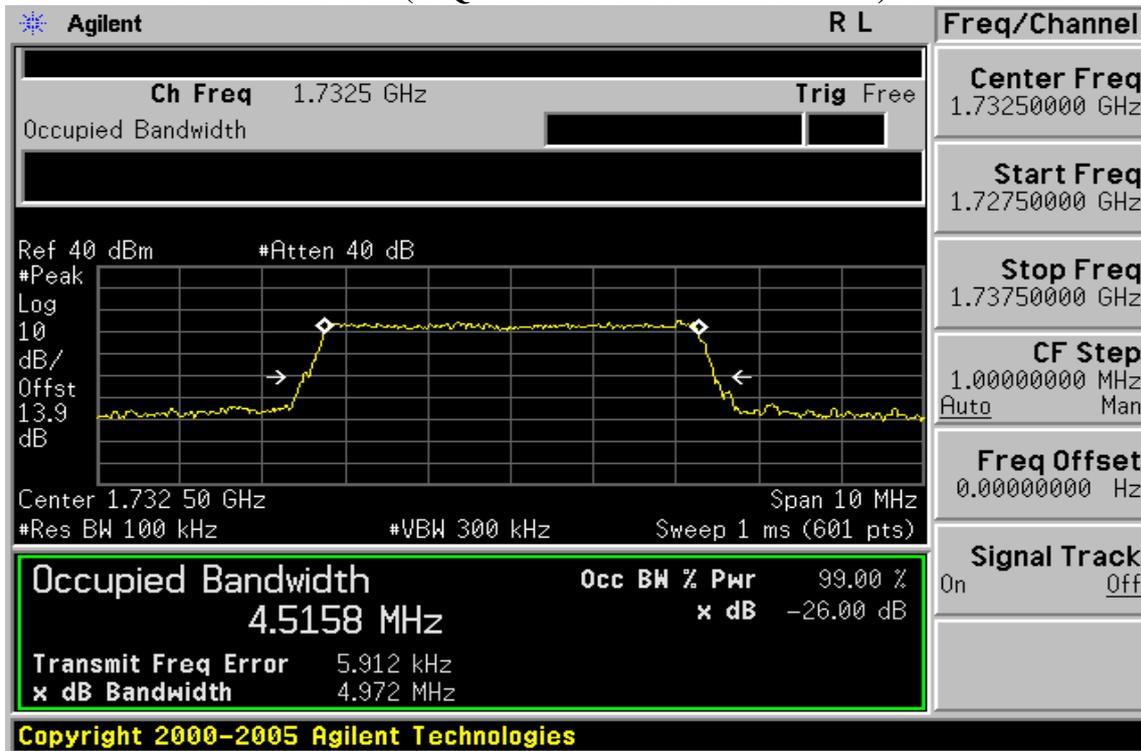
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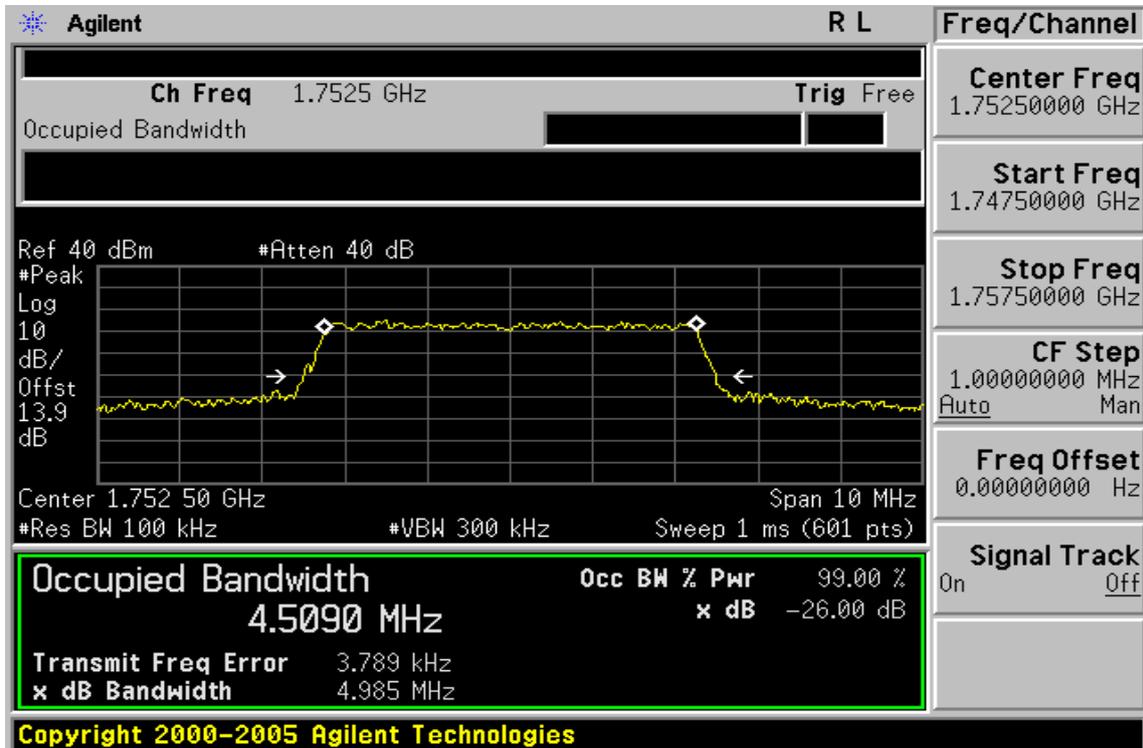
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5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel High



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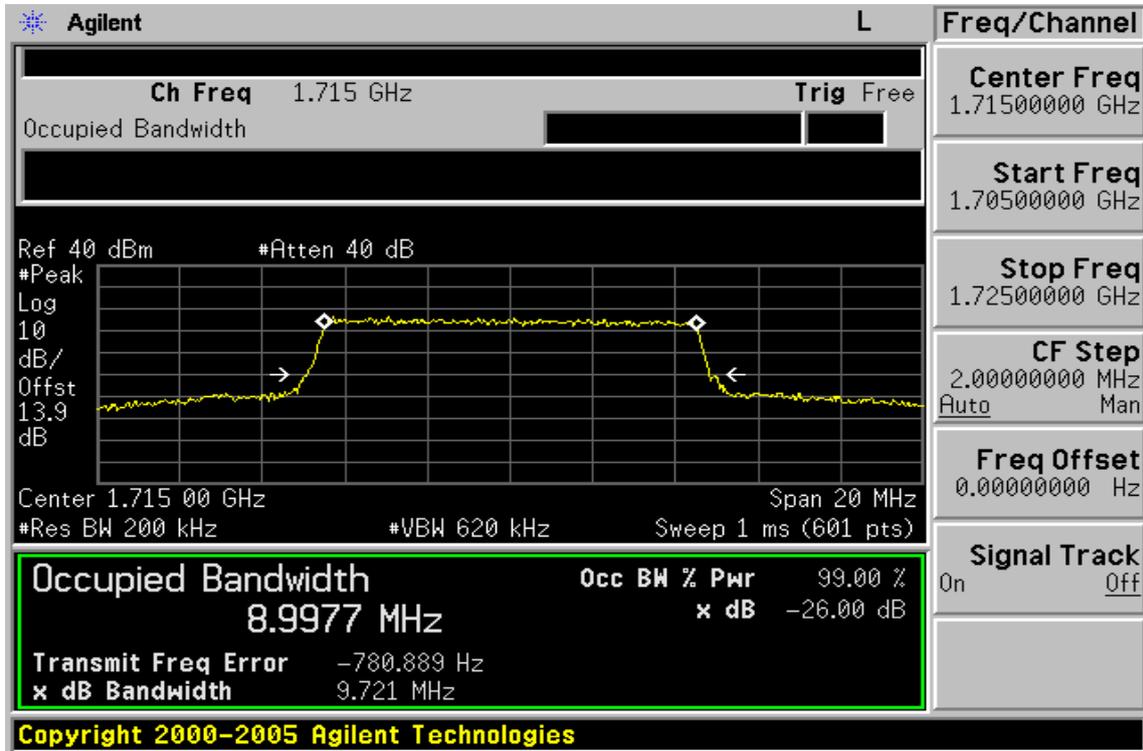
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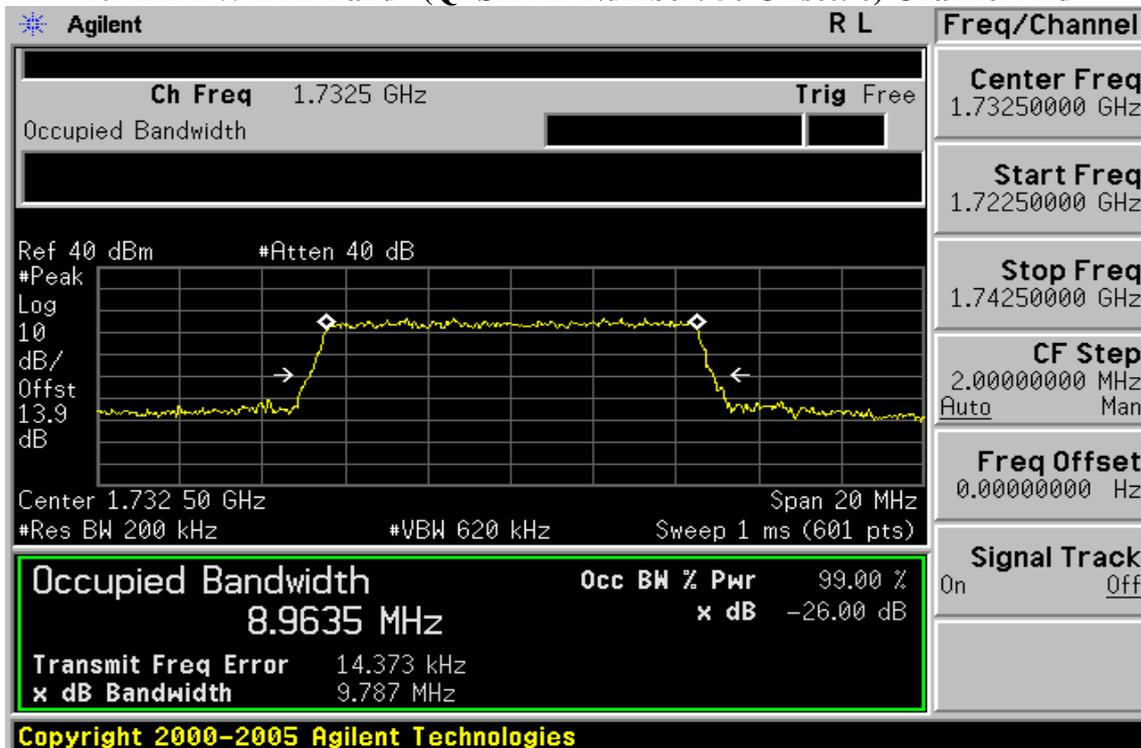
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Mid



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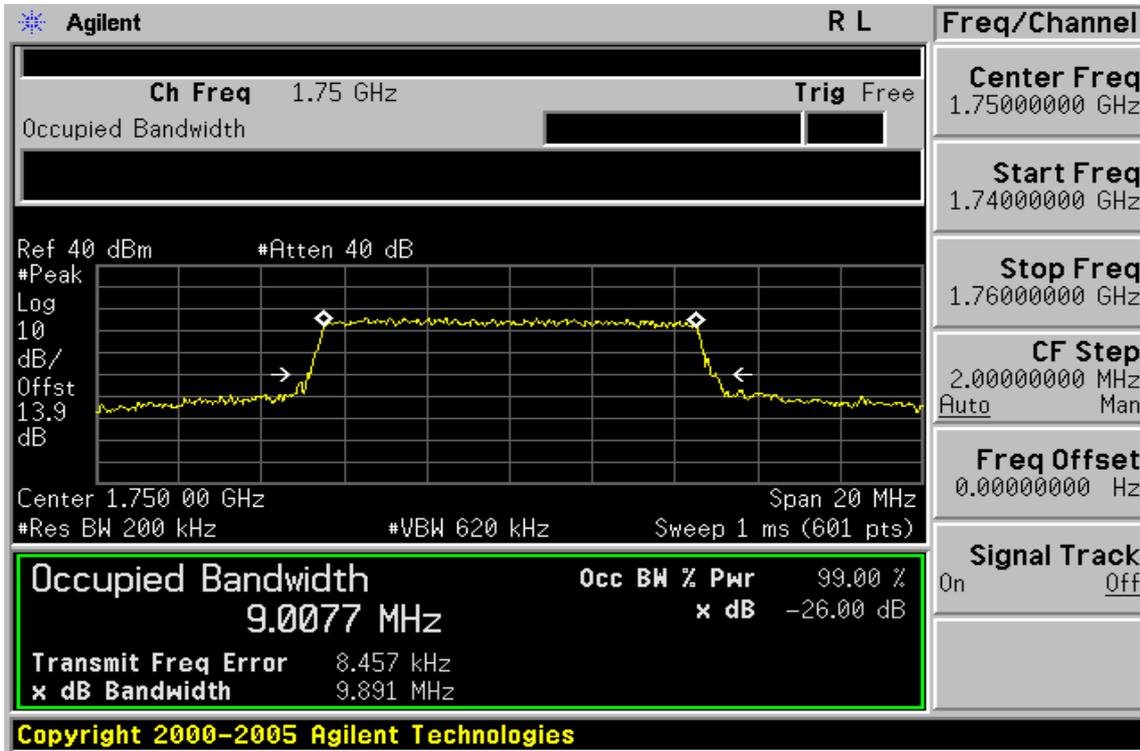
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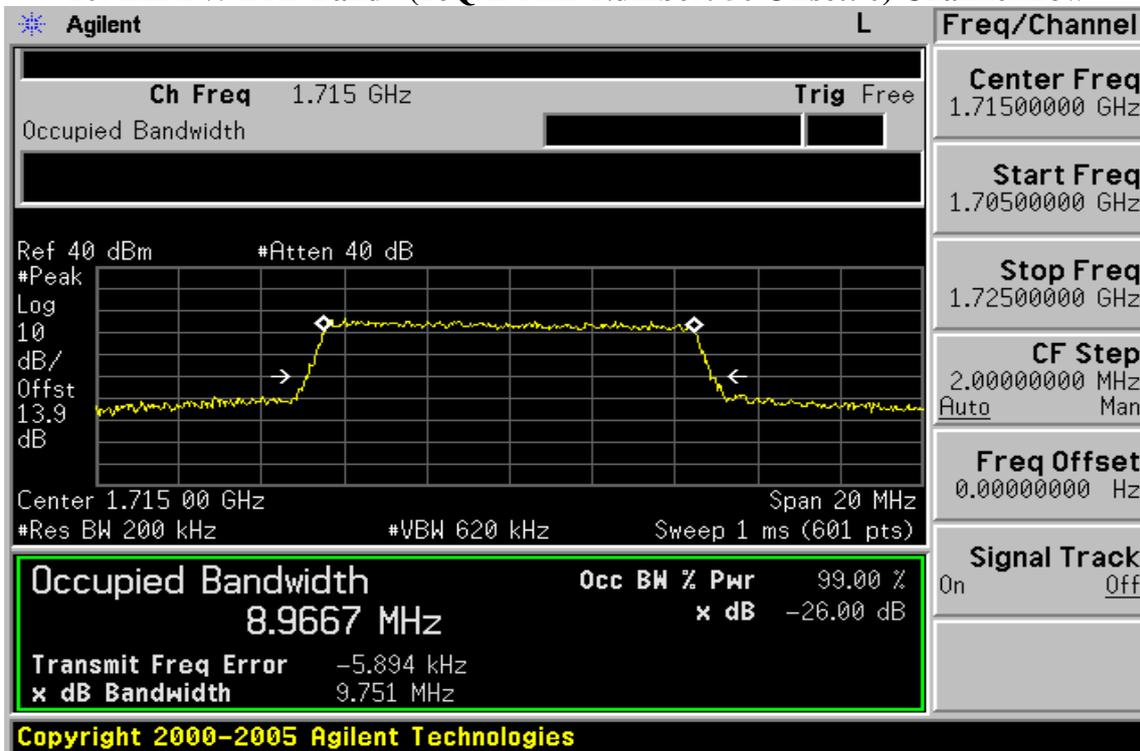
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Low



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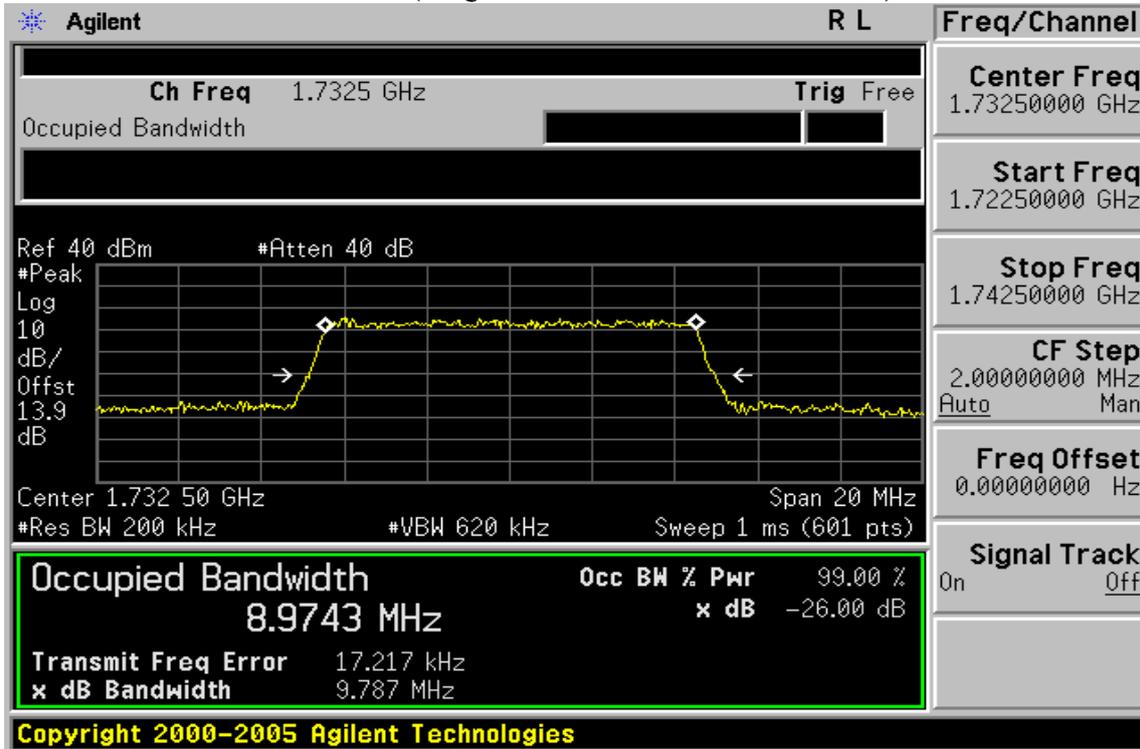
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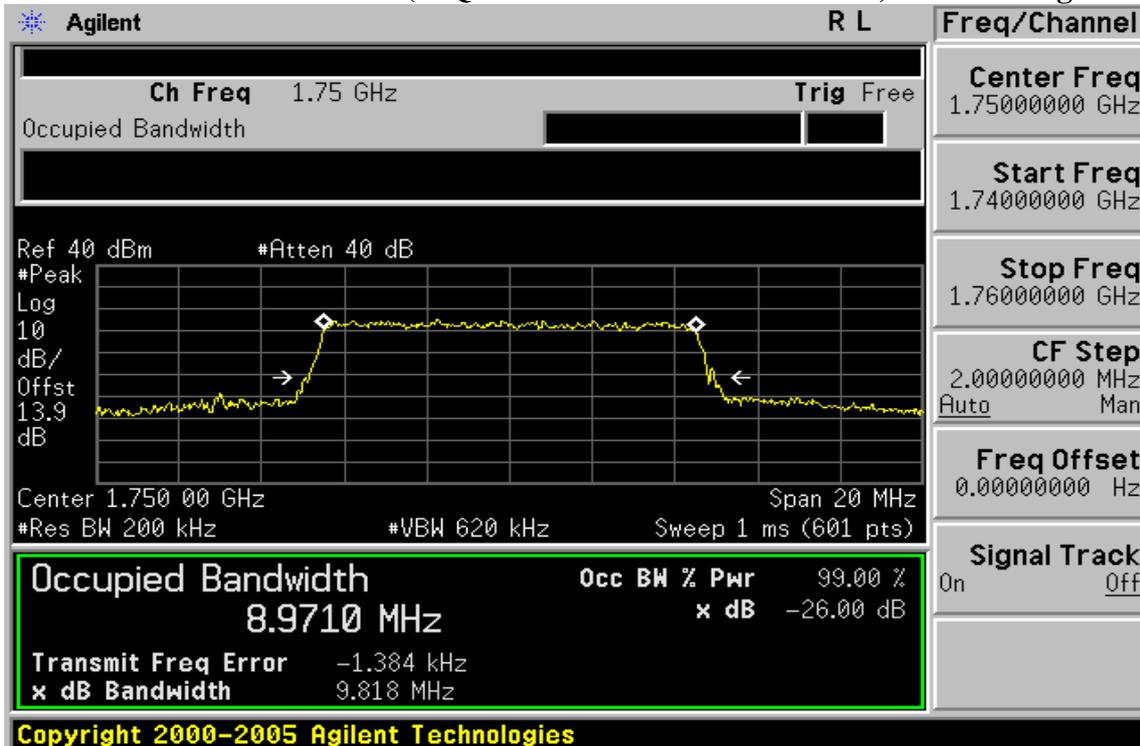
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10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel High



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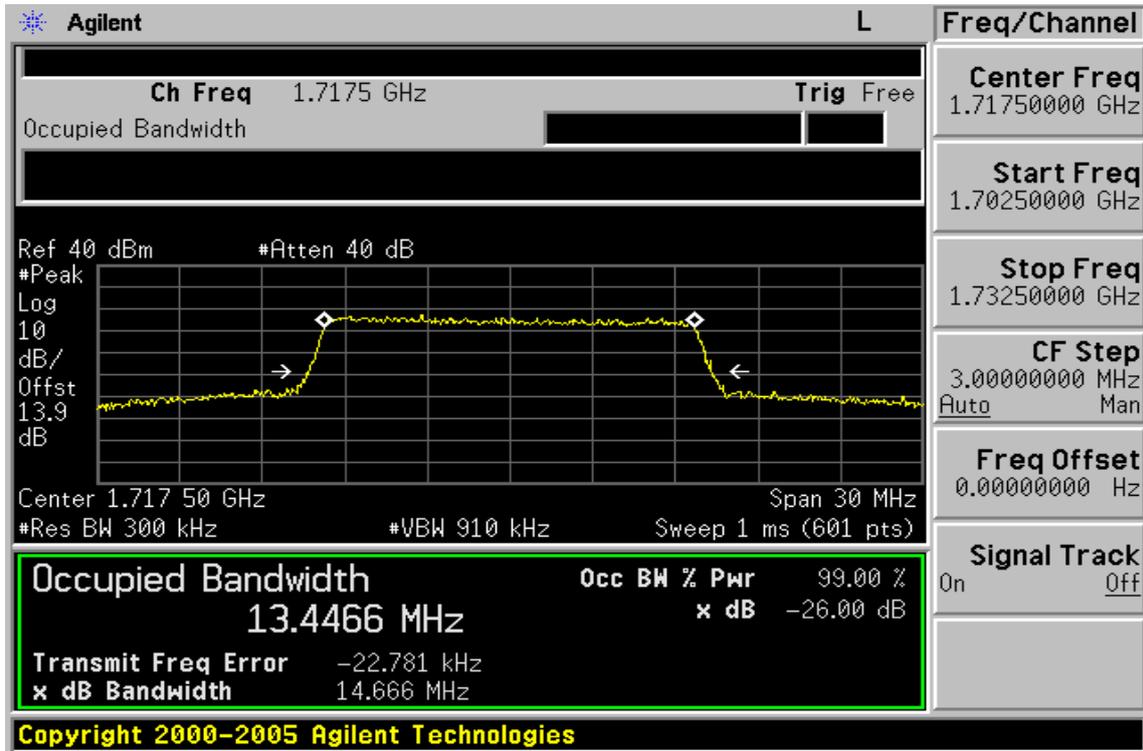
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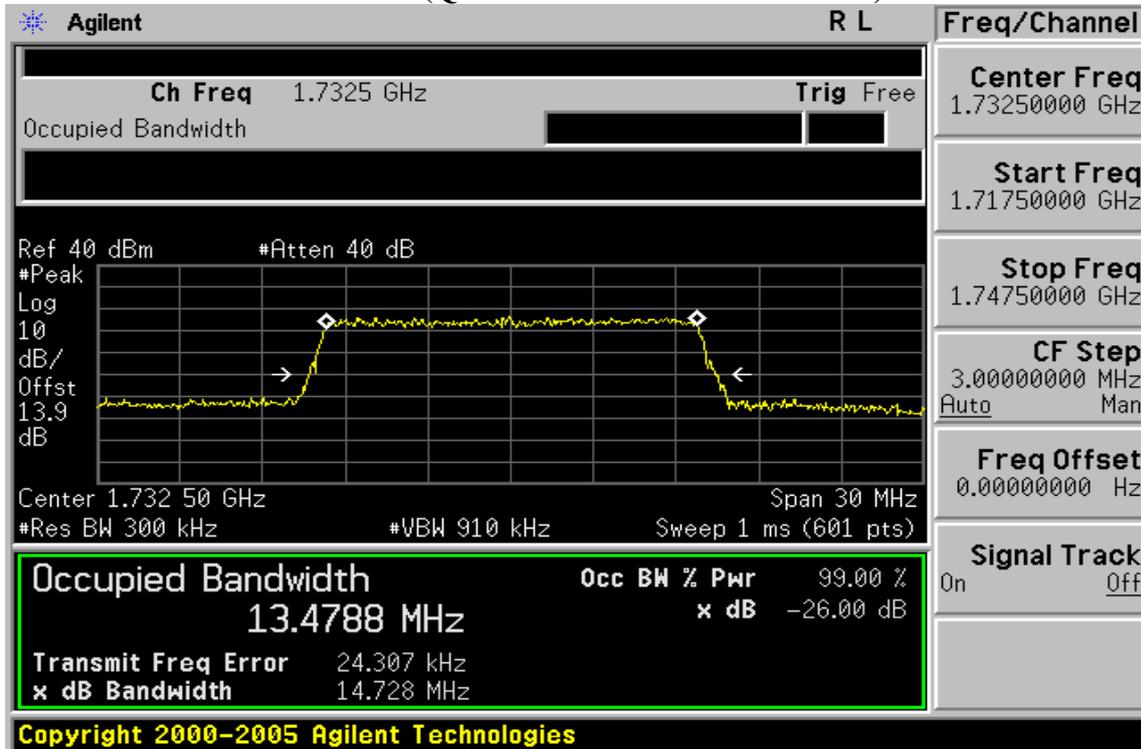
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Mid



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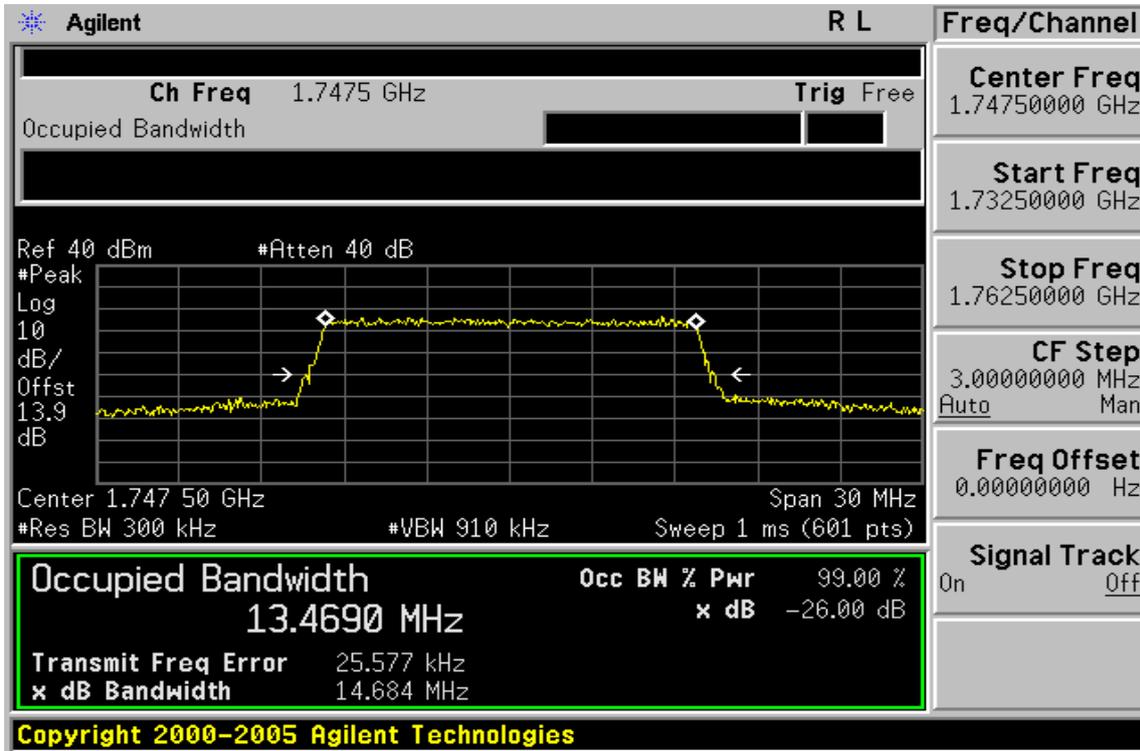
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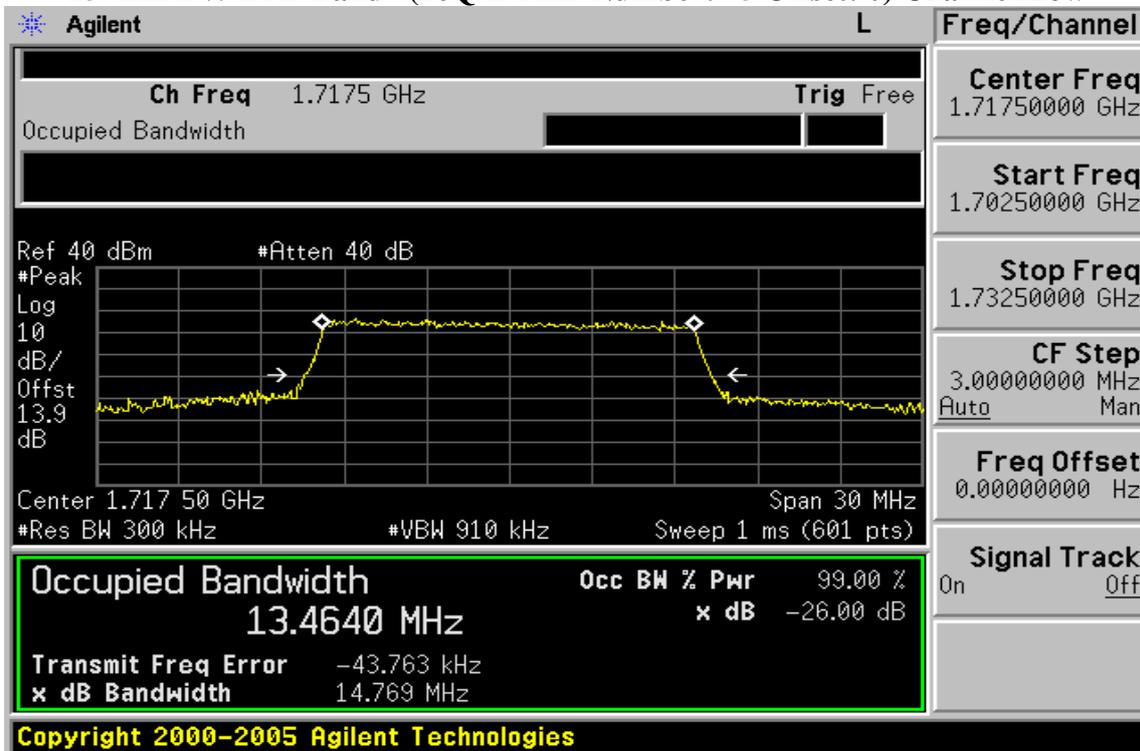
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Low



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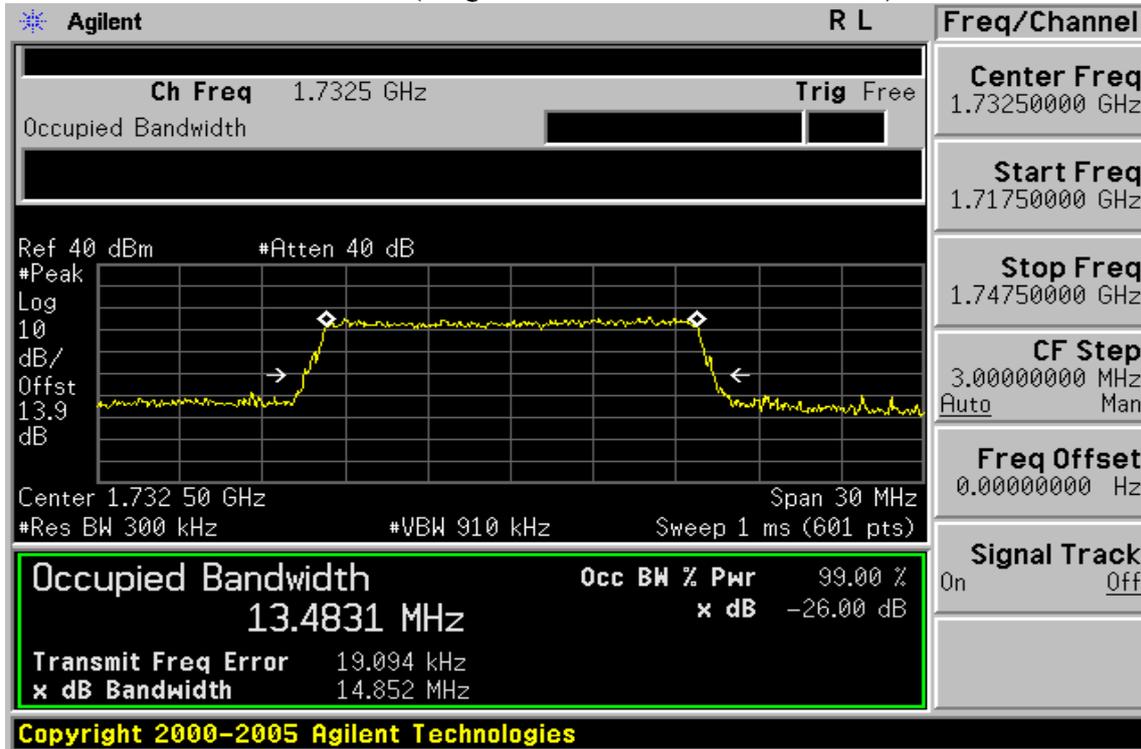
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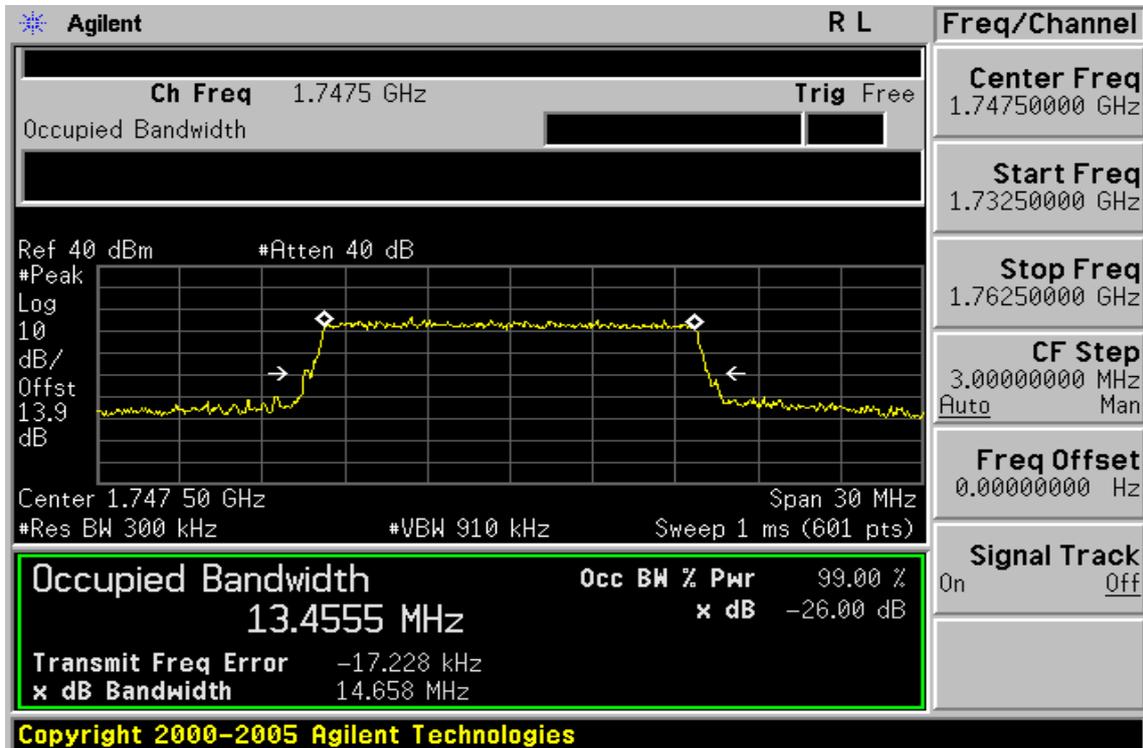
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15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel High



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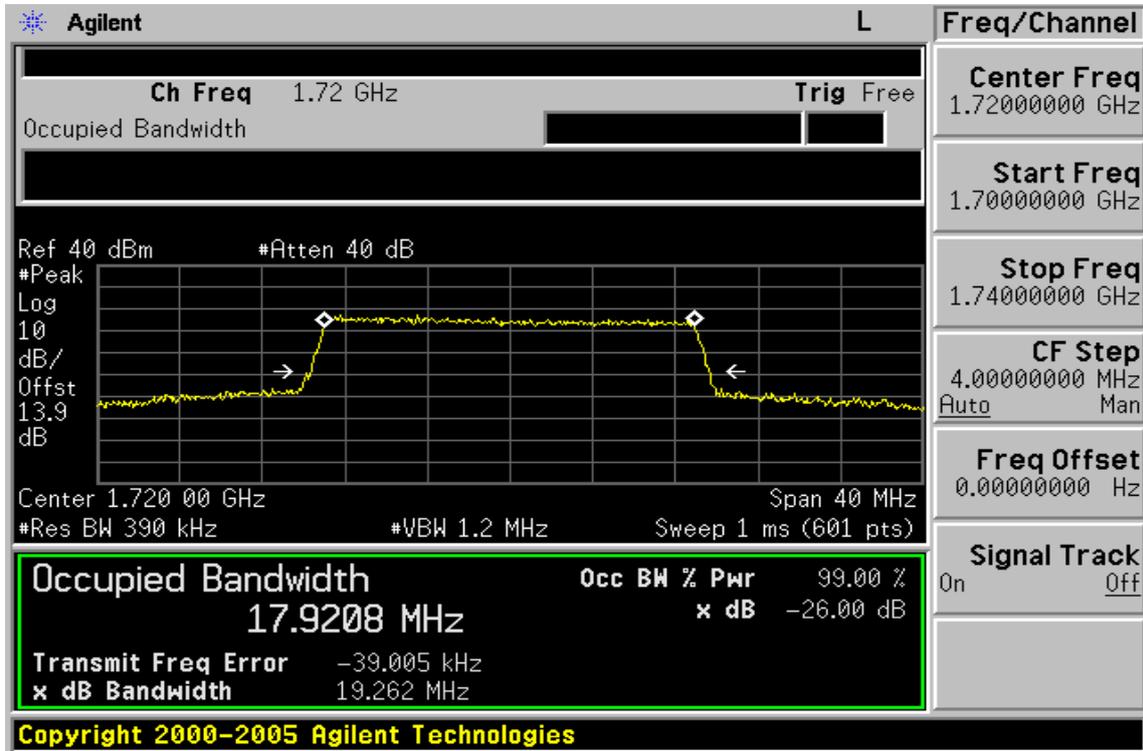
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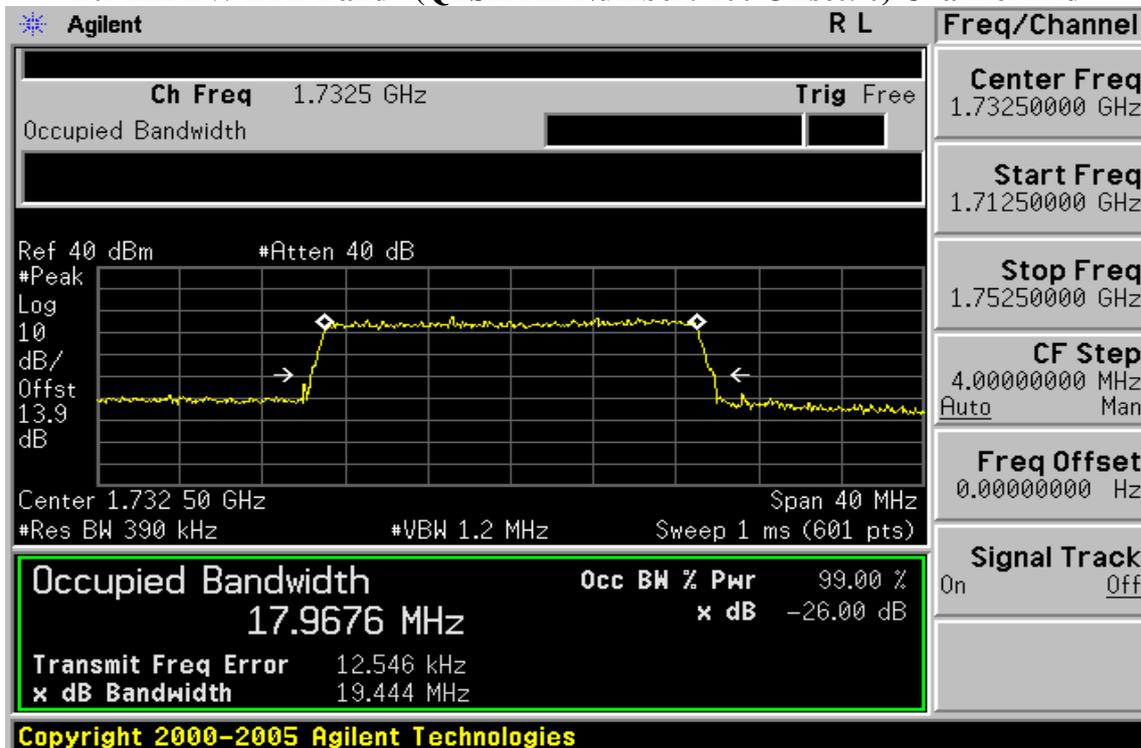
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Mid



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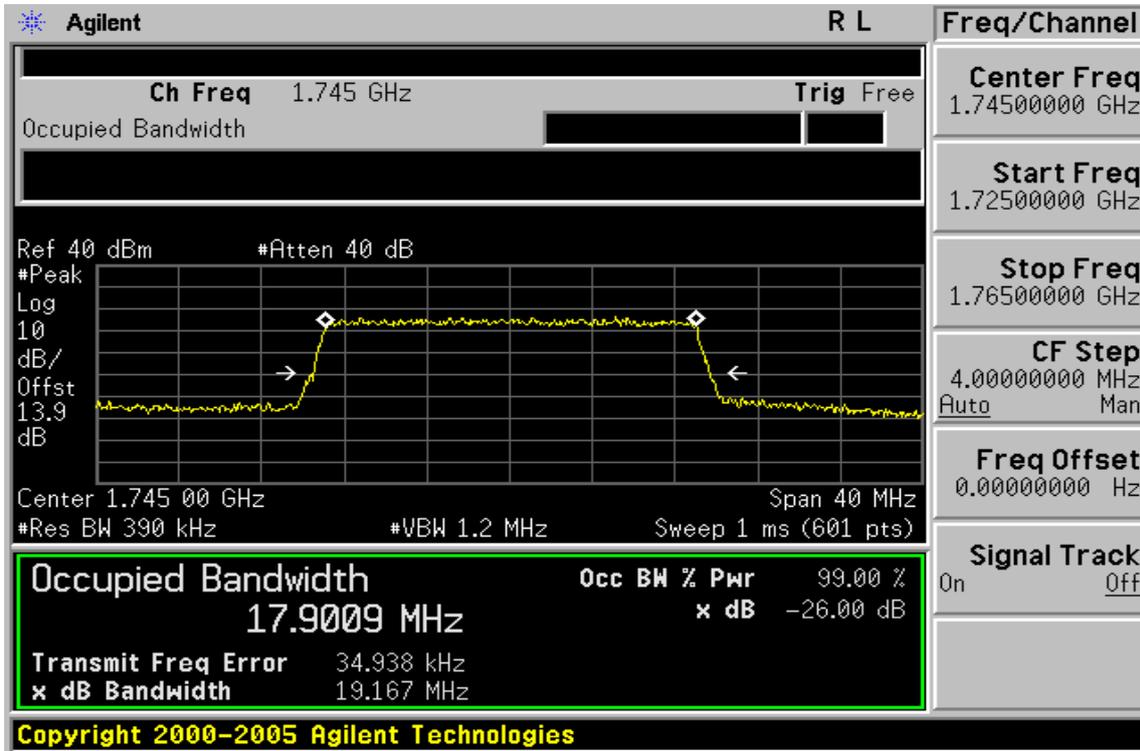
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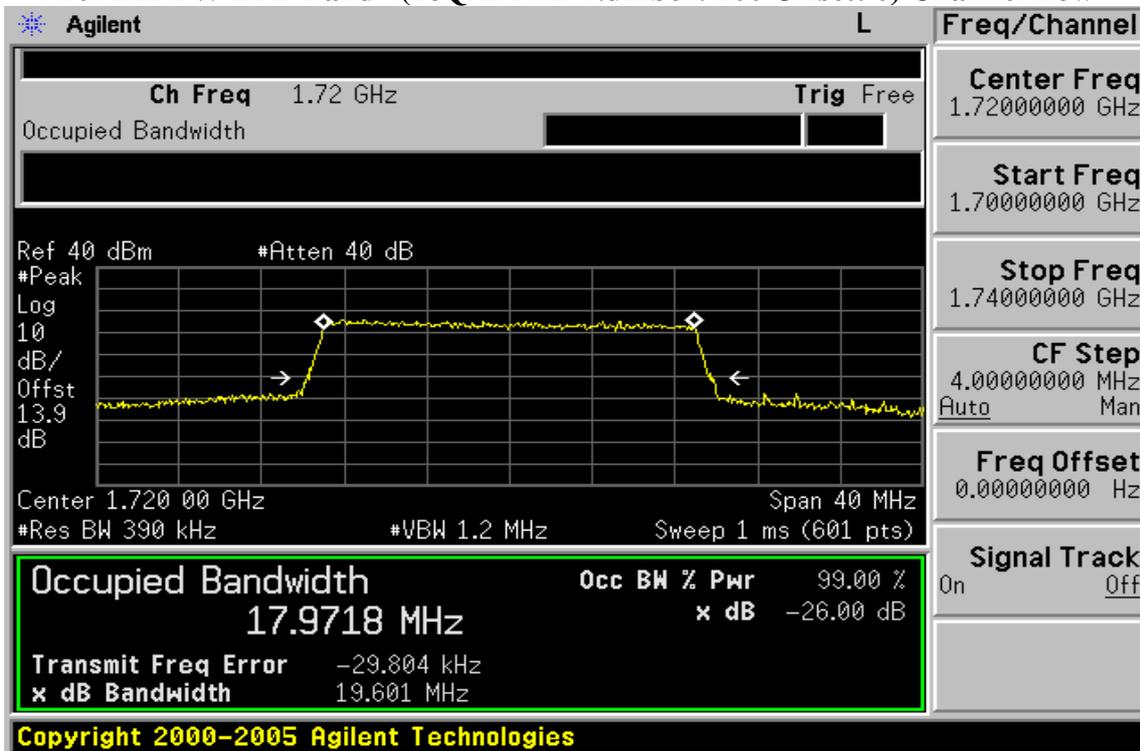
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Low



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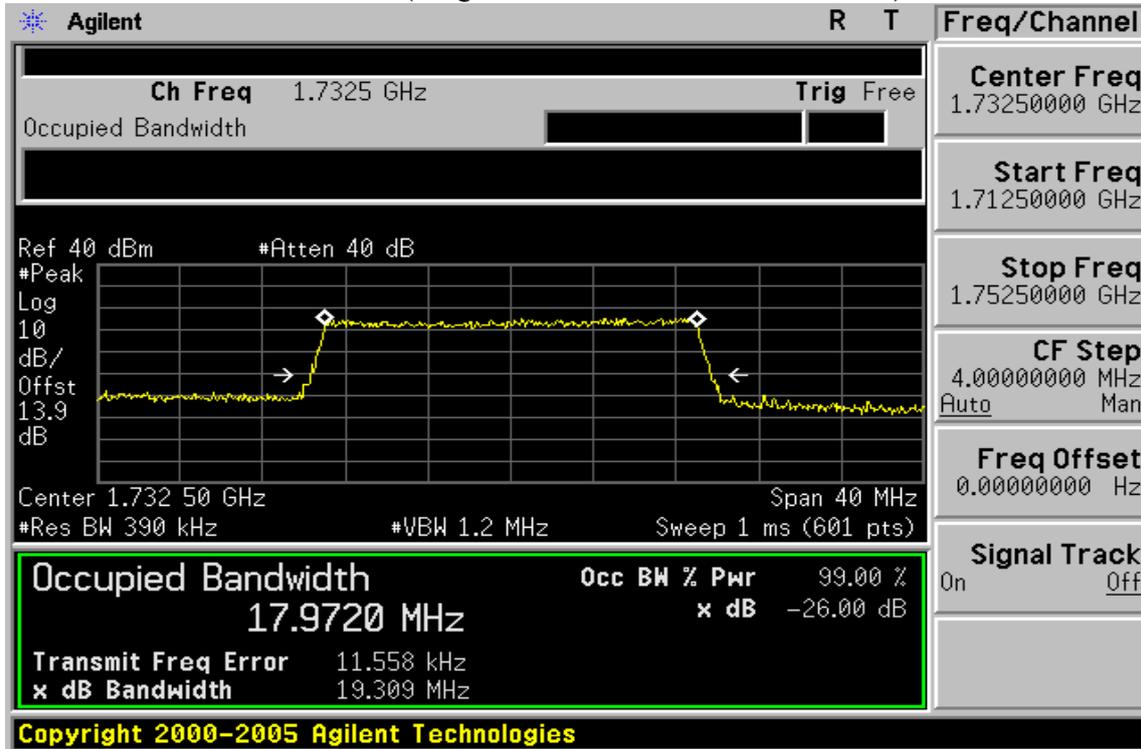
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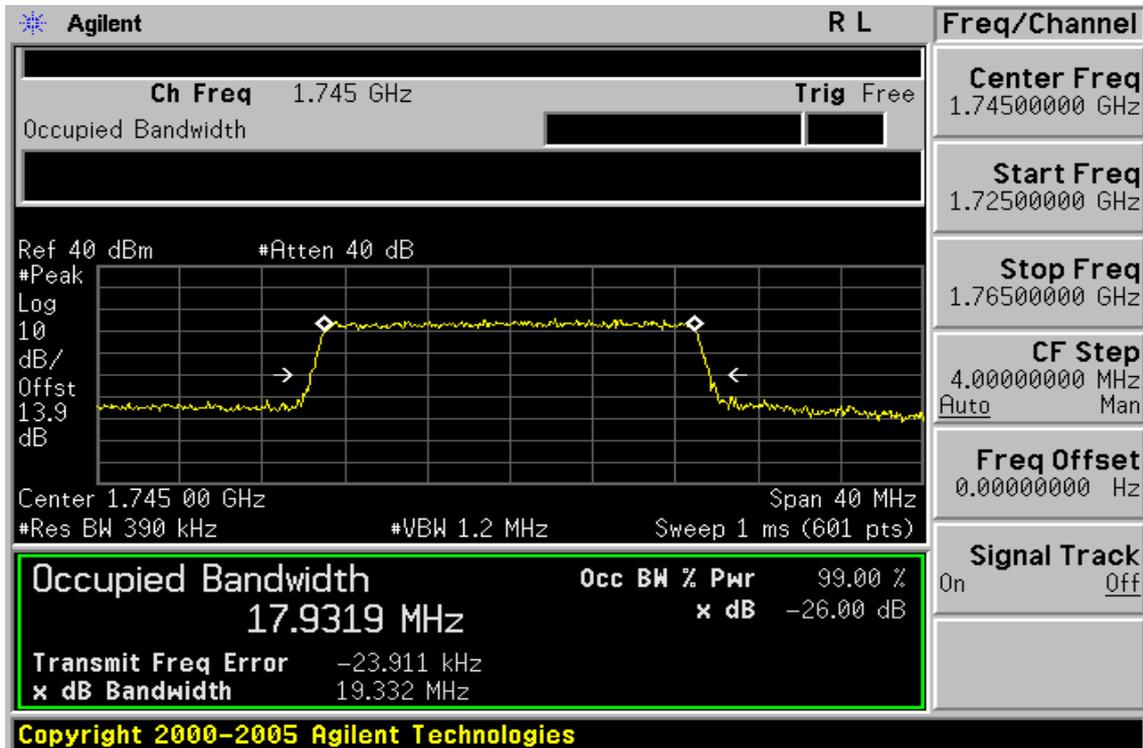
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20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel High



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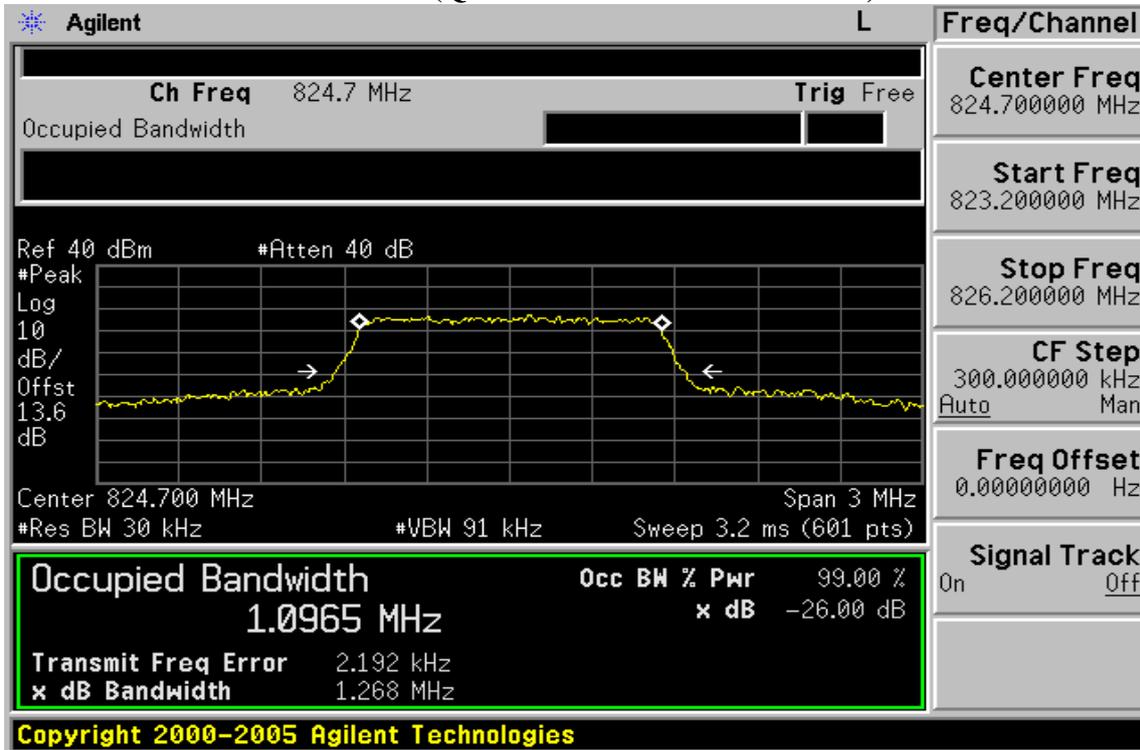
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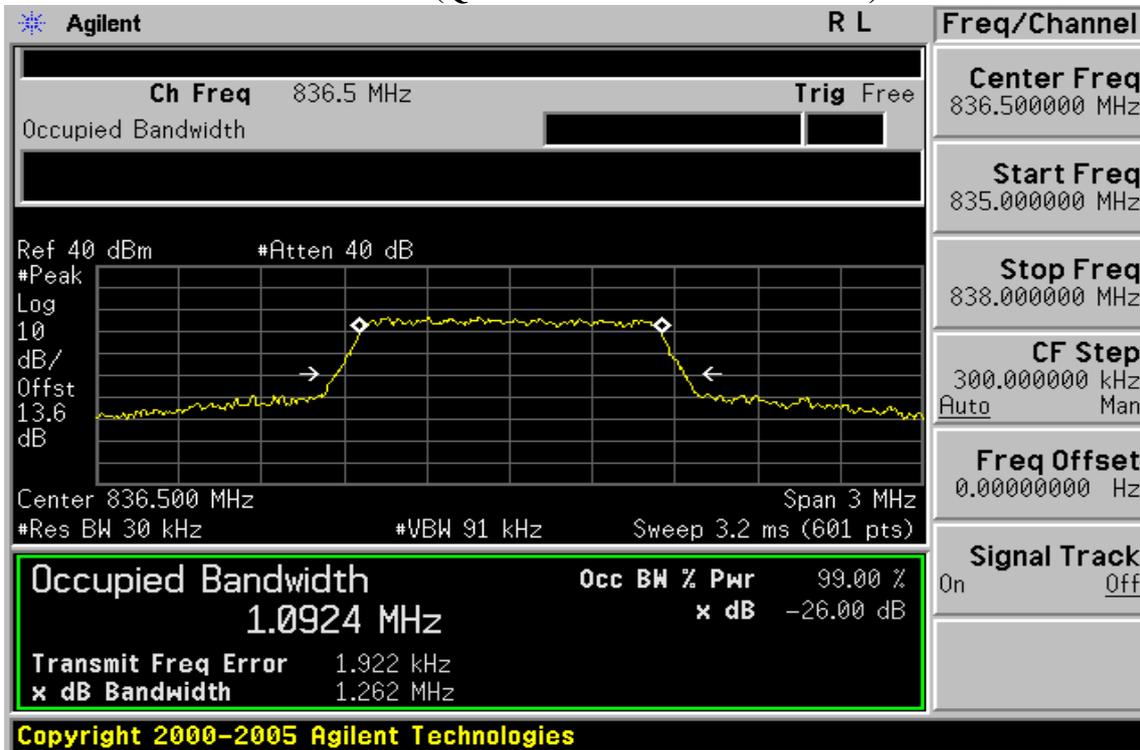
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low



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



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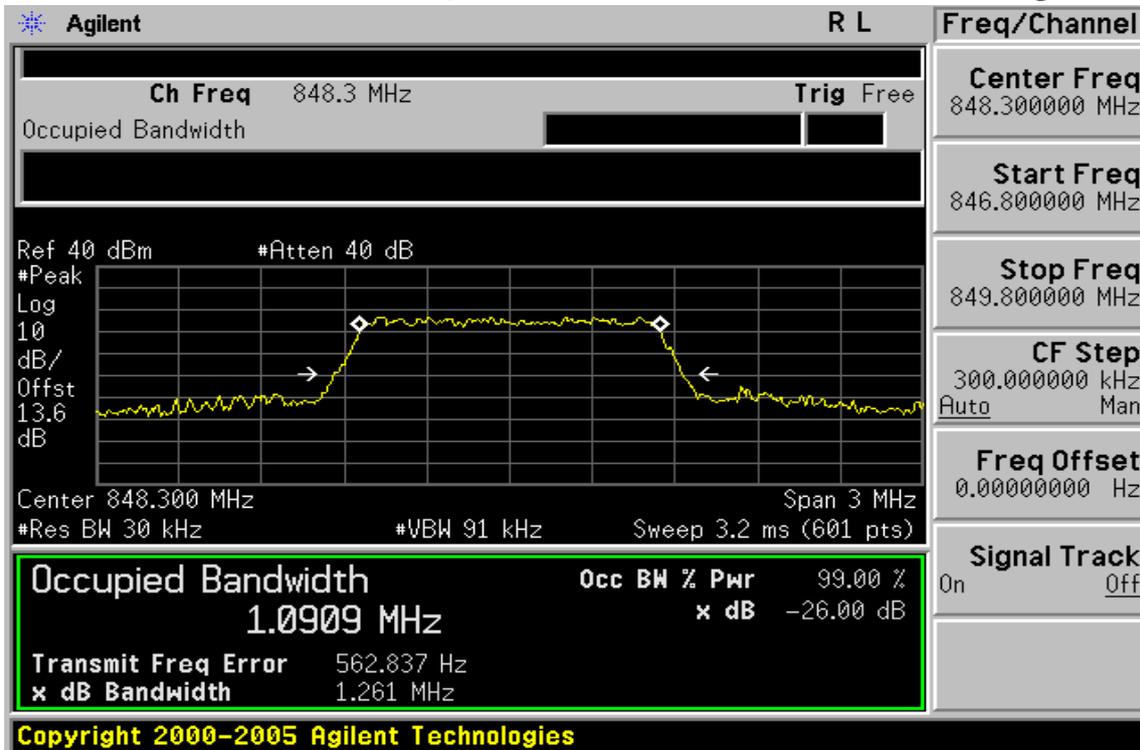
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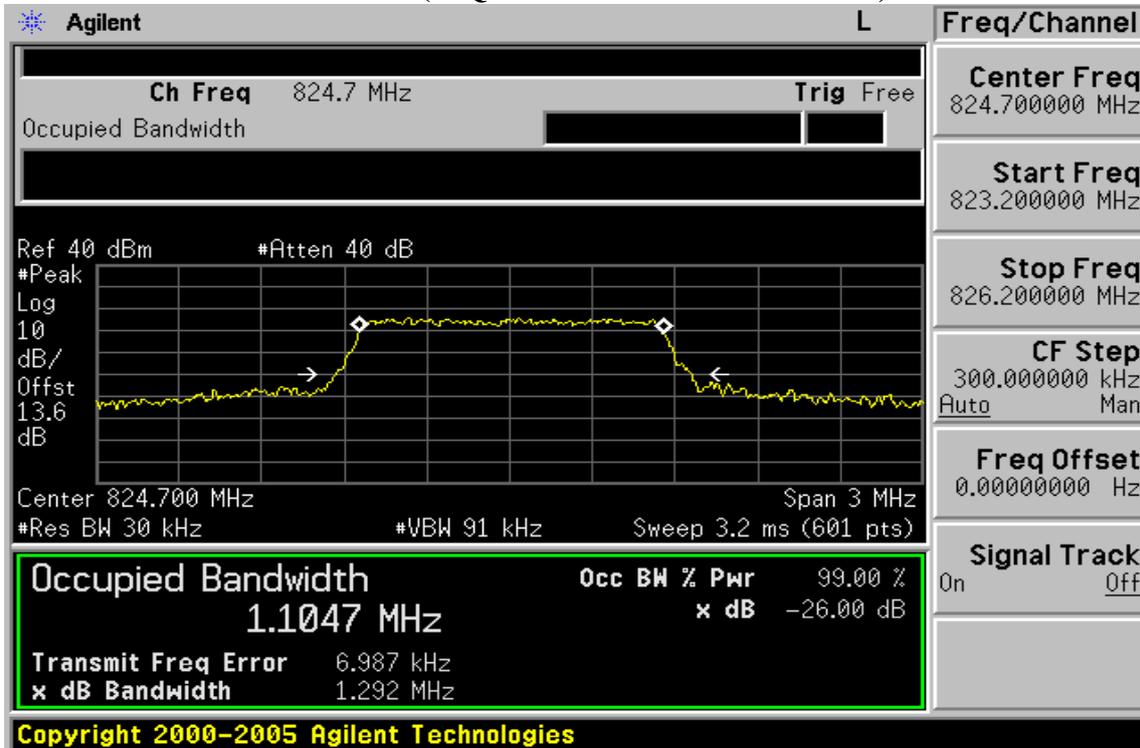
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel High



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



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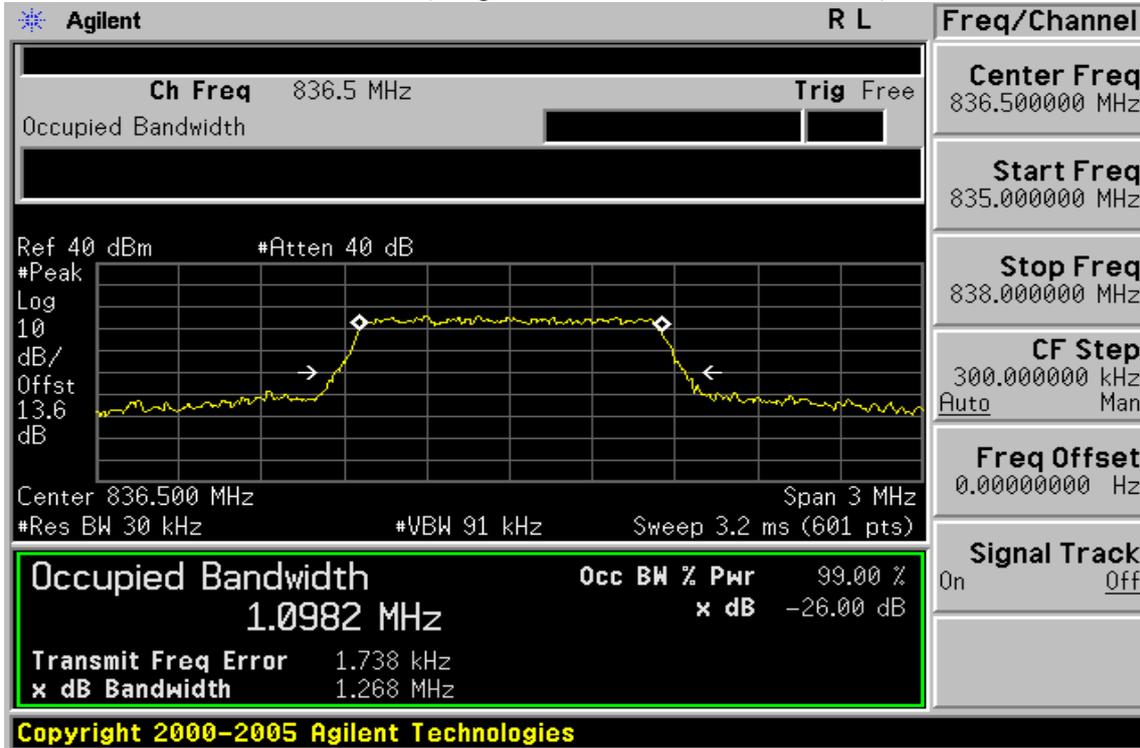
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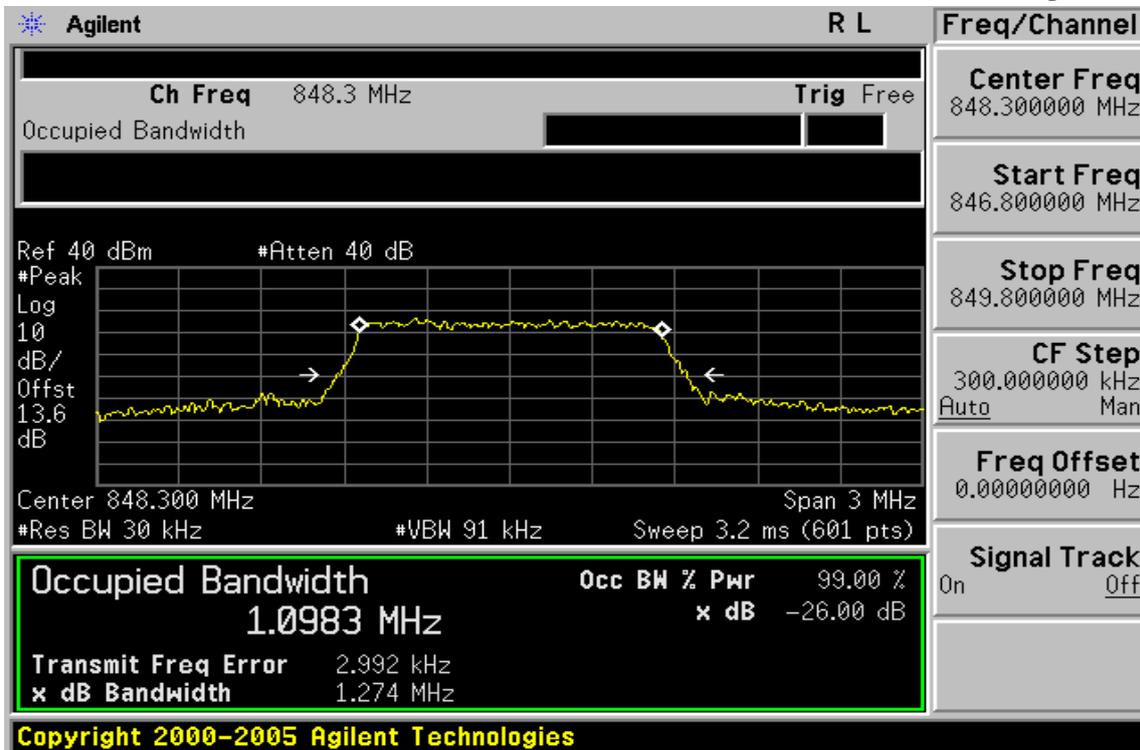
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1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Mid



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



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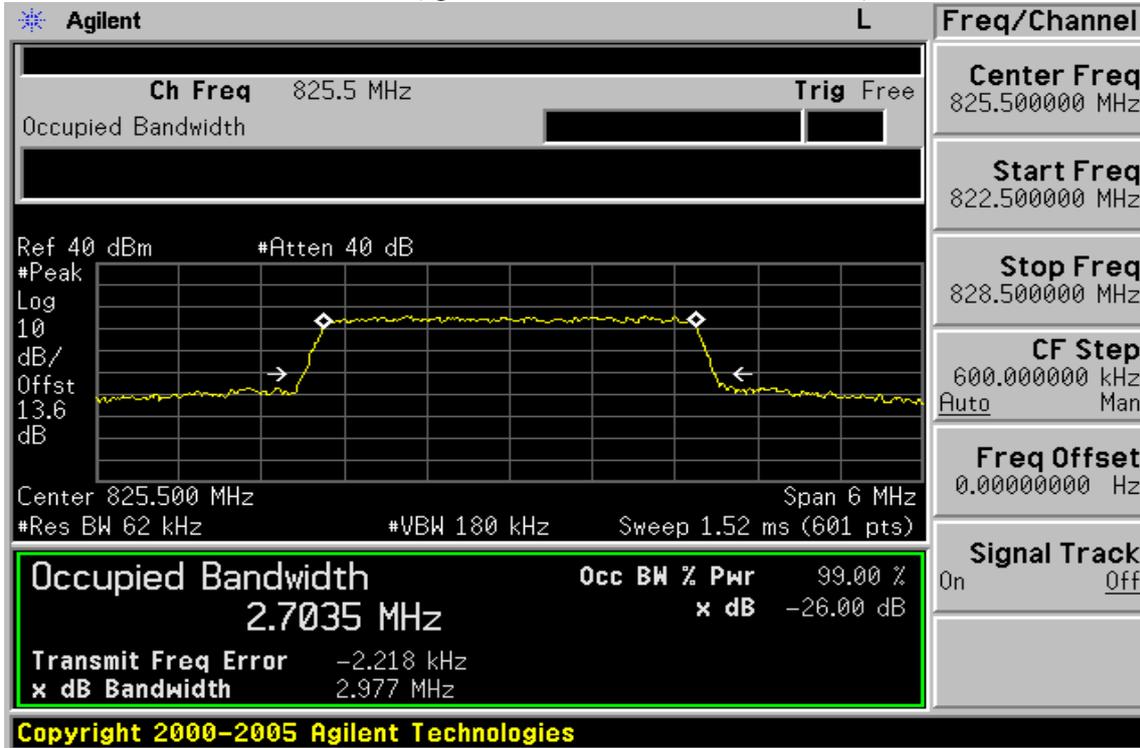
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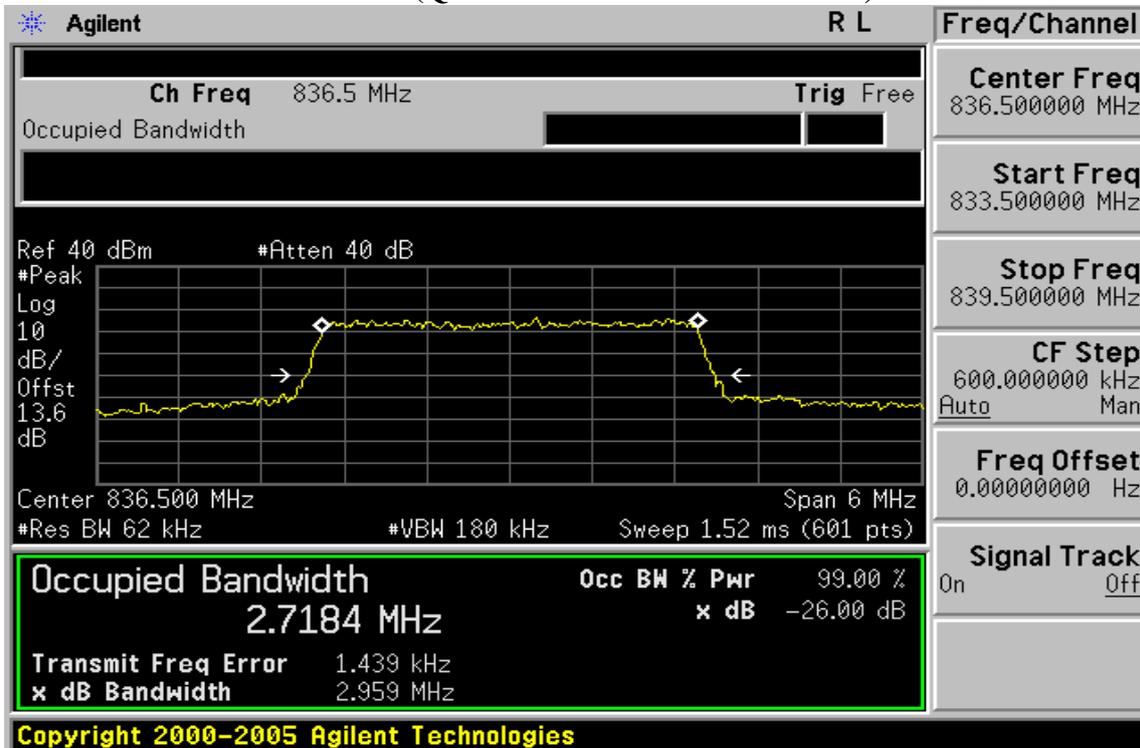
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Mid



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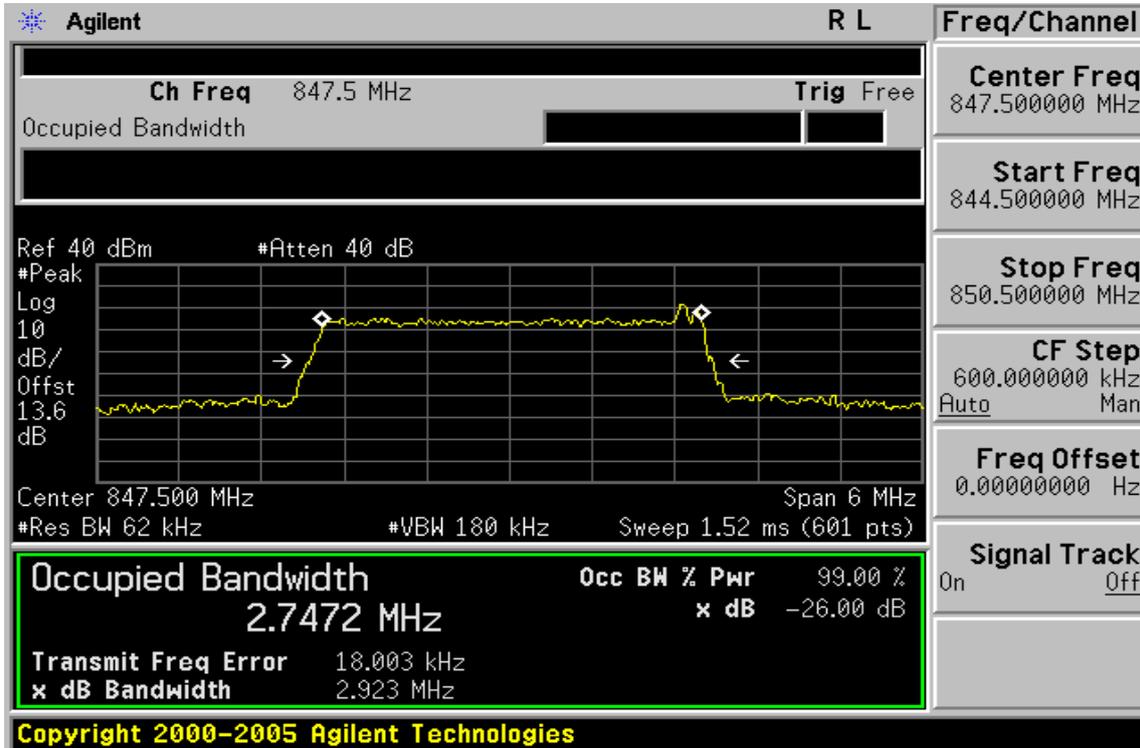
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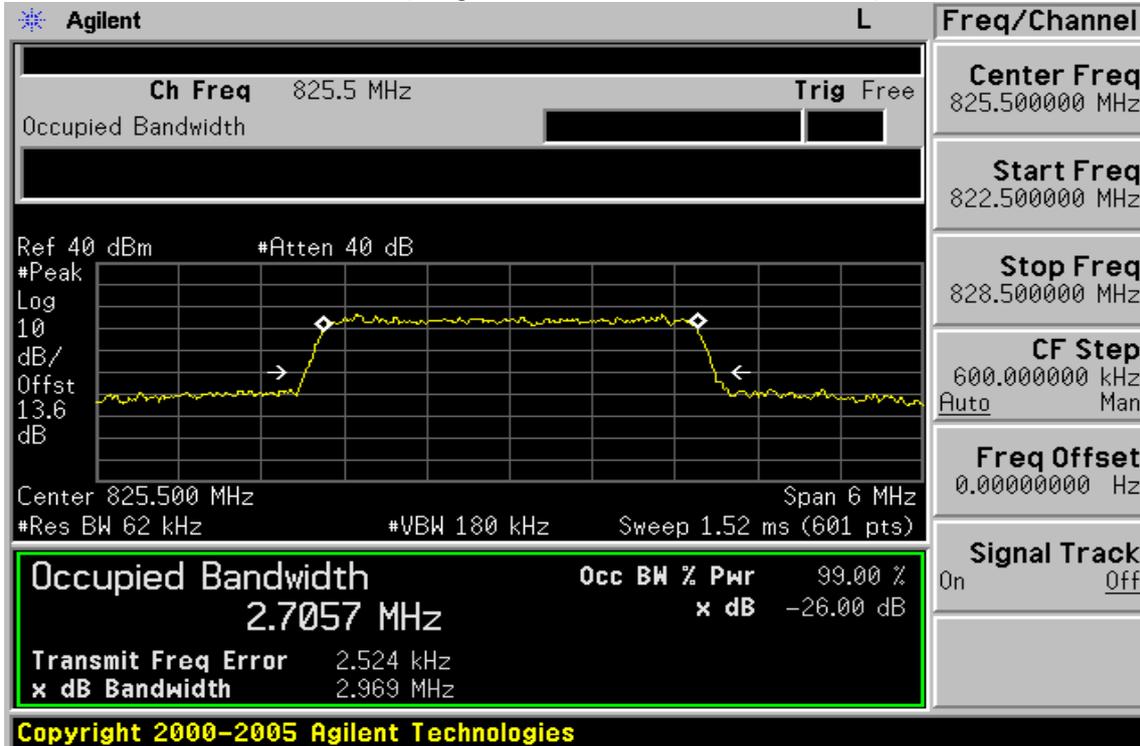
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel High



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



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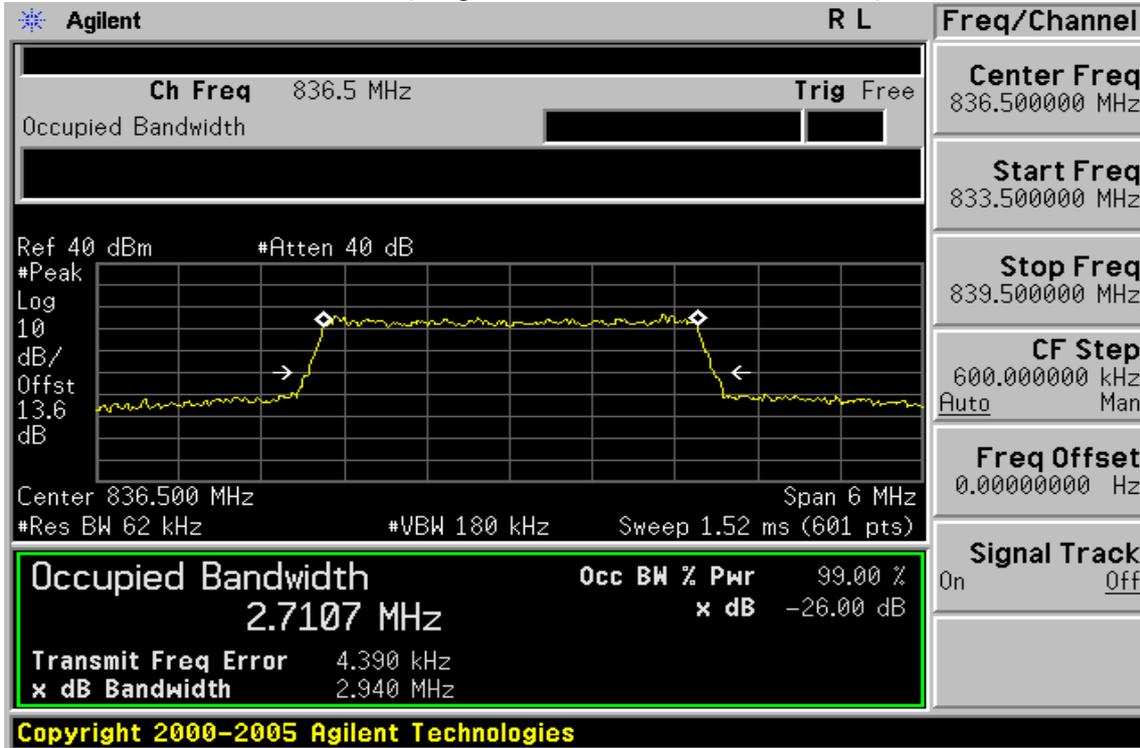
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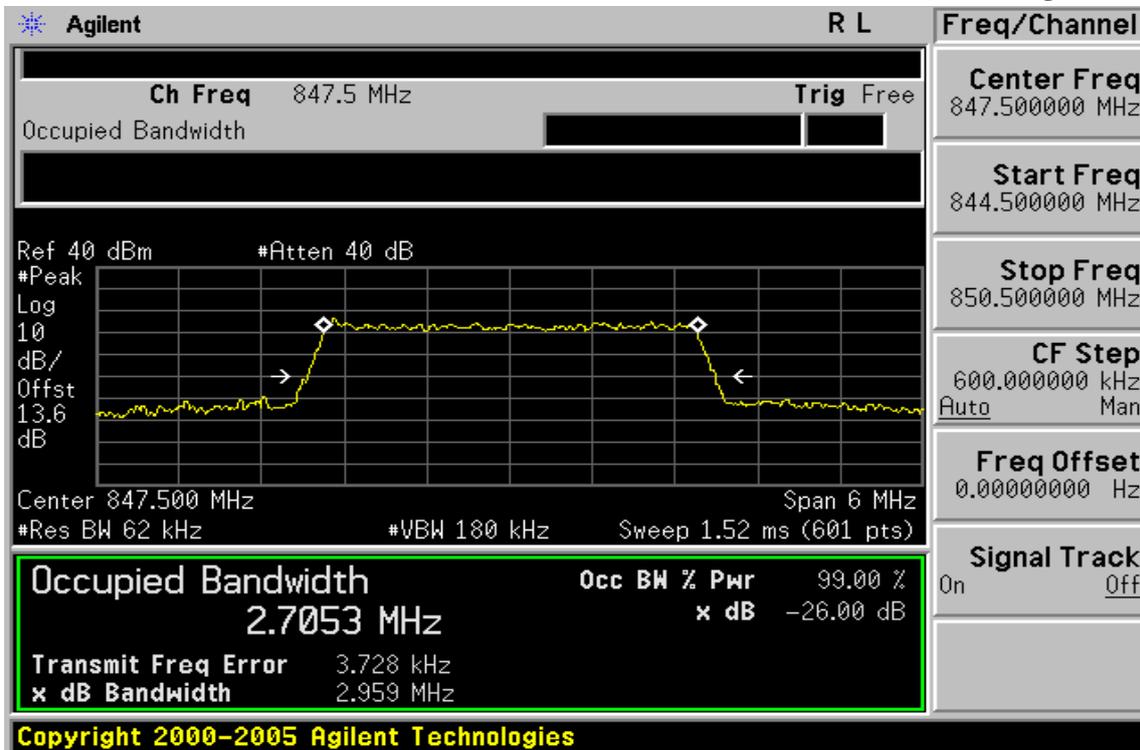
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3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Mid



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



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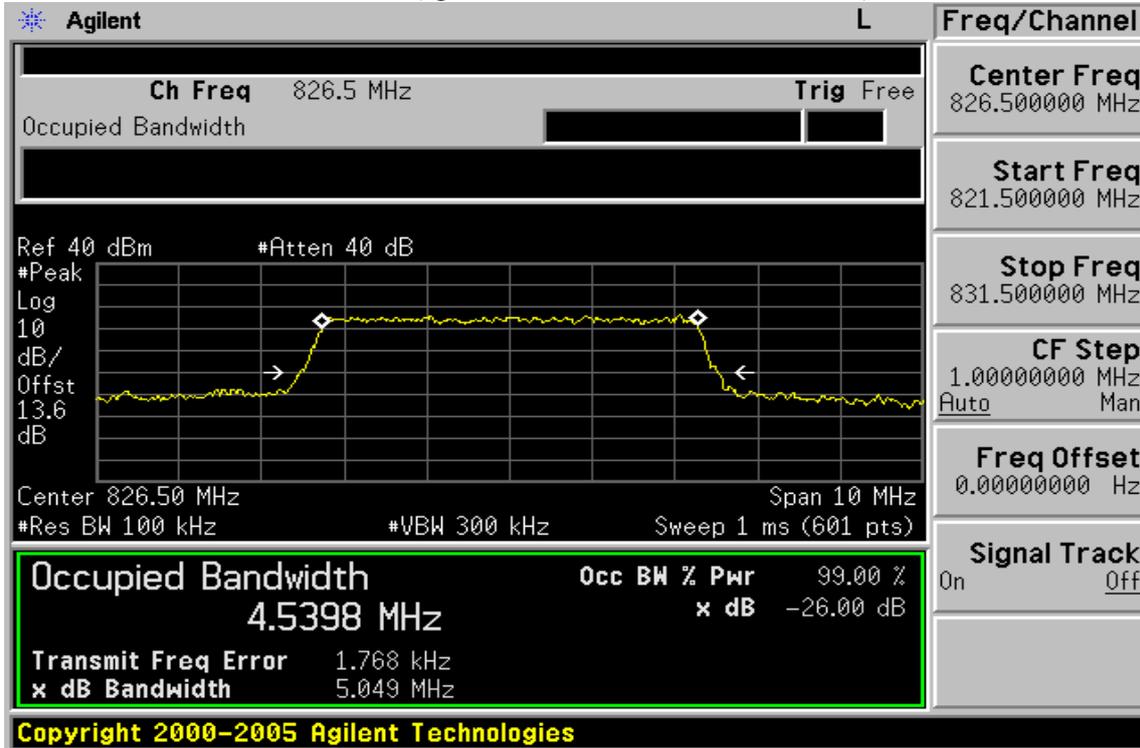
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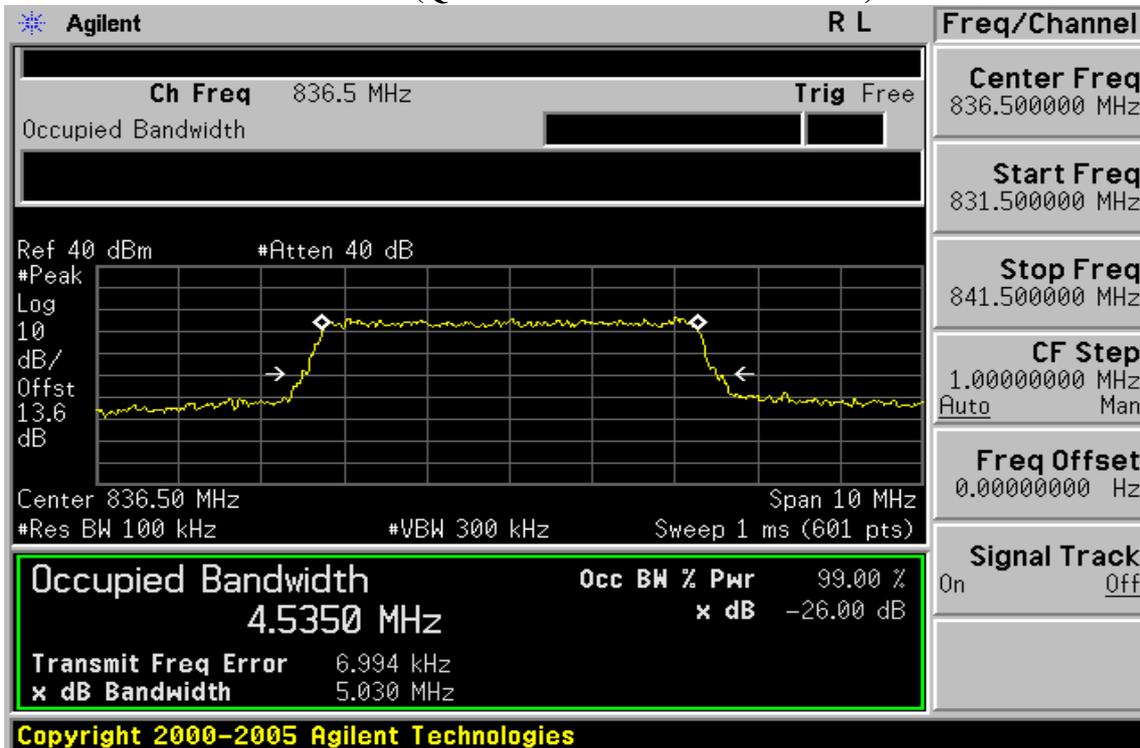
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Mid



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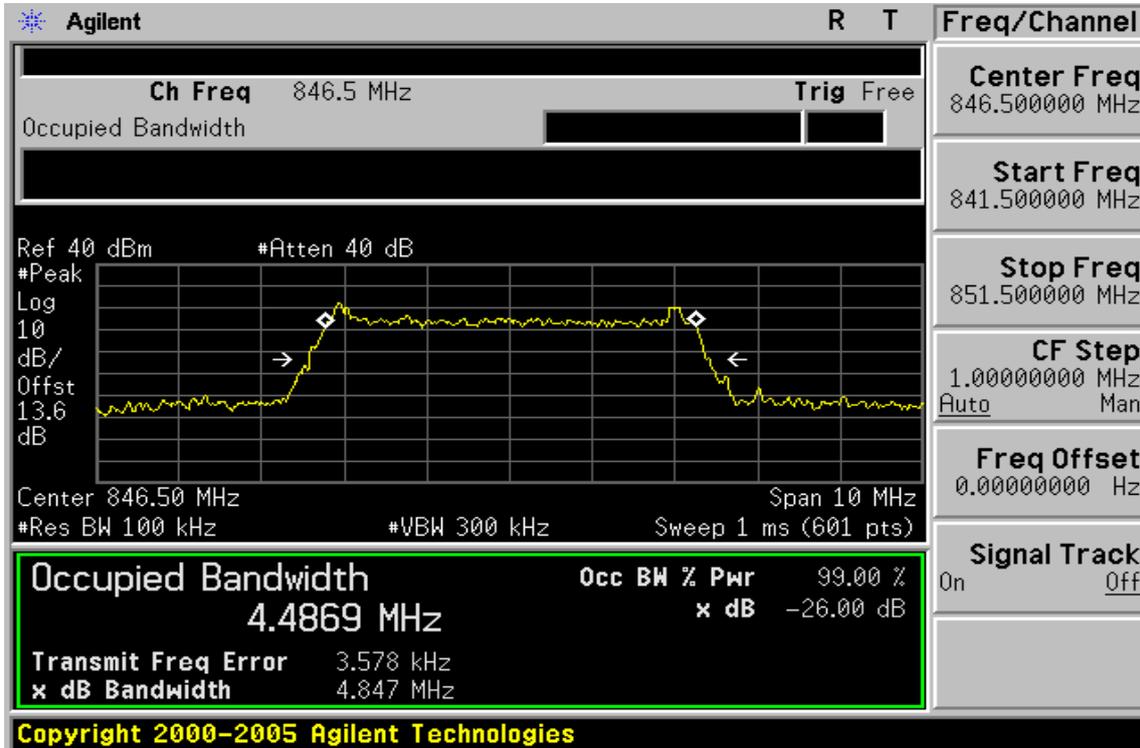
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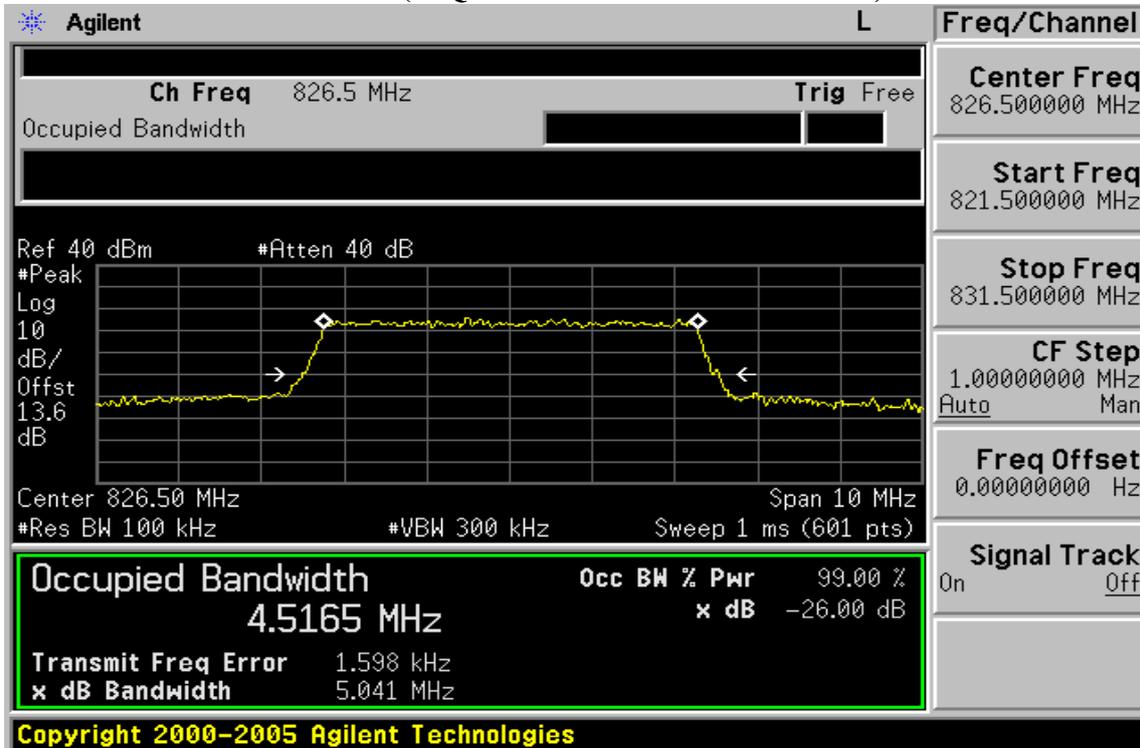
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel High



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



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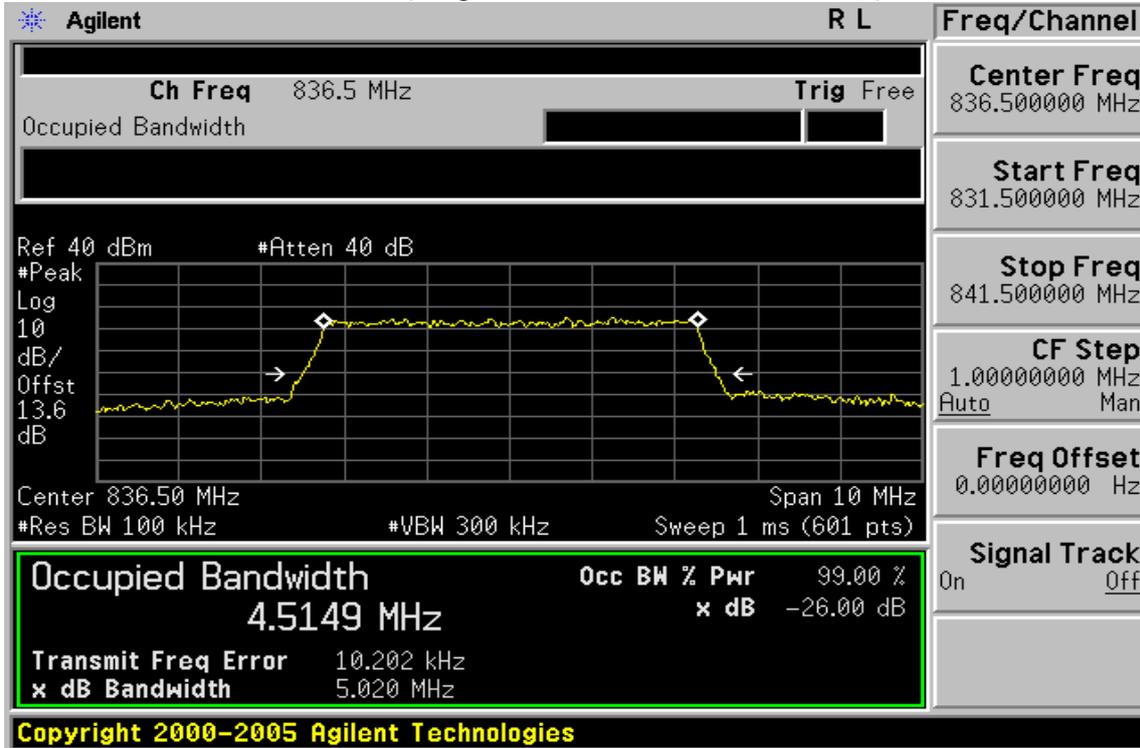
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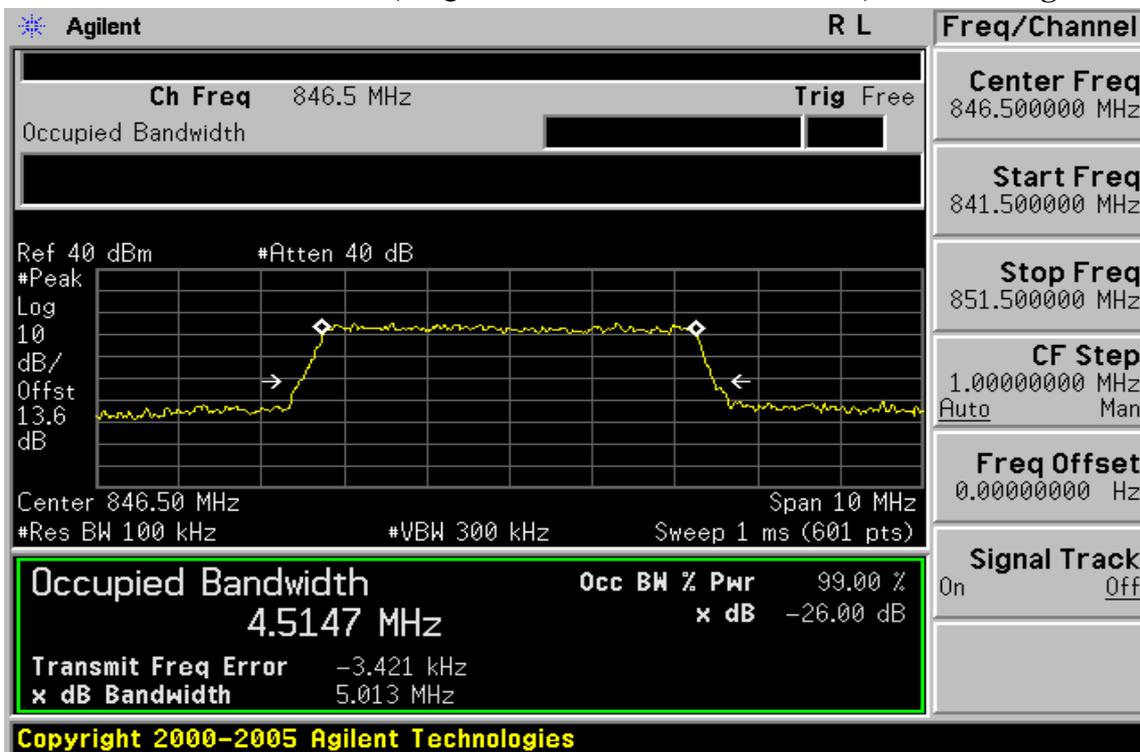
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5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Mid



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

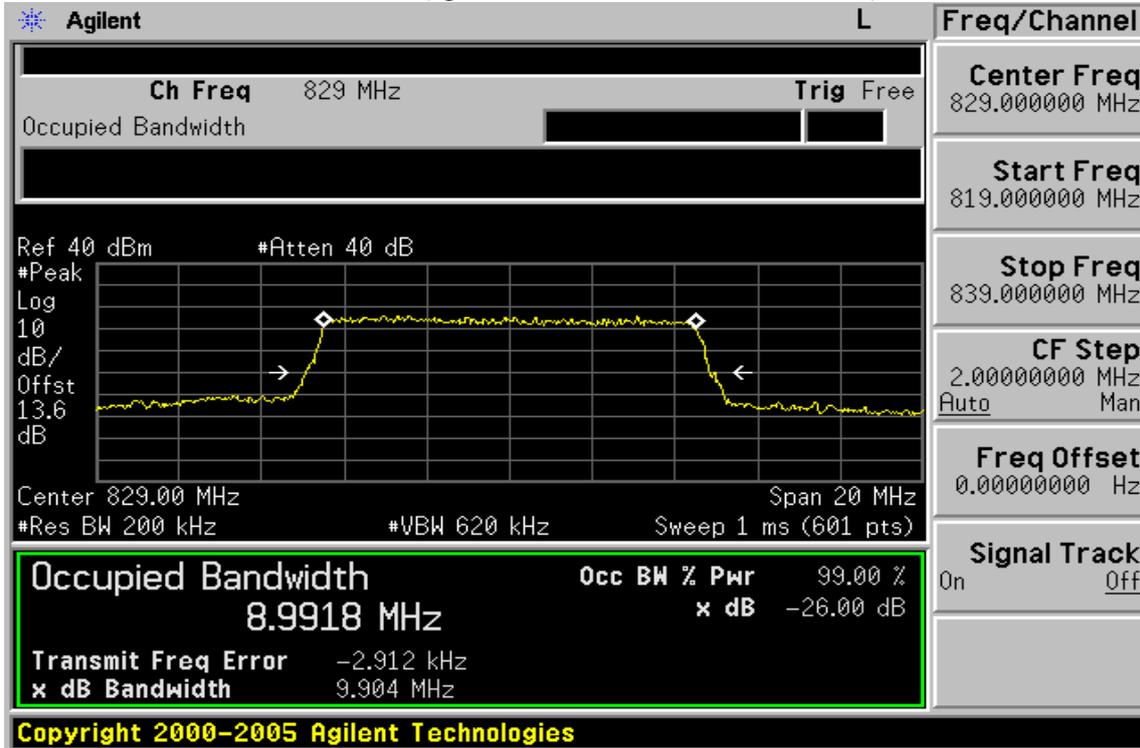


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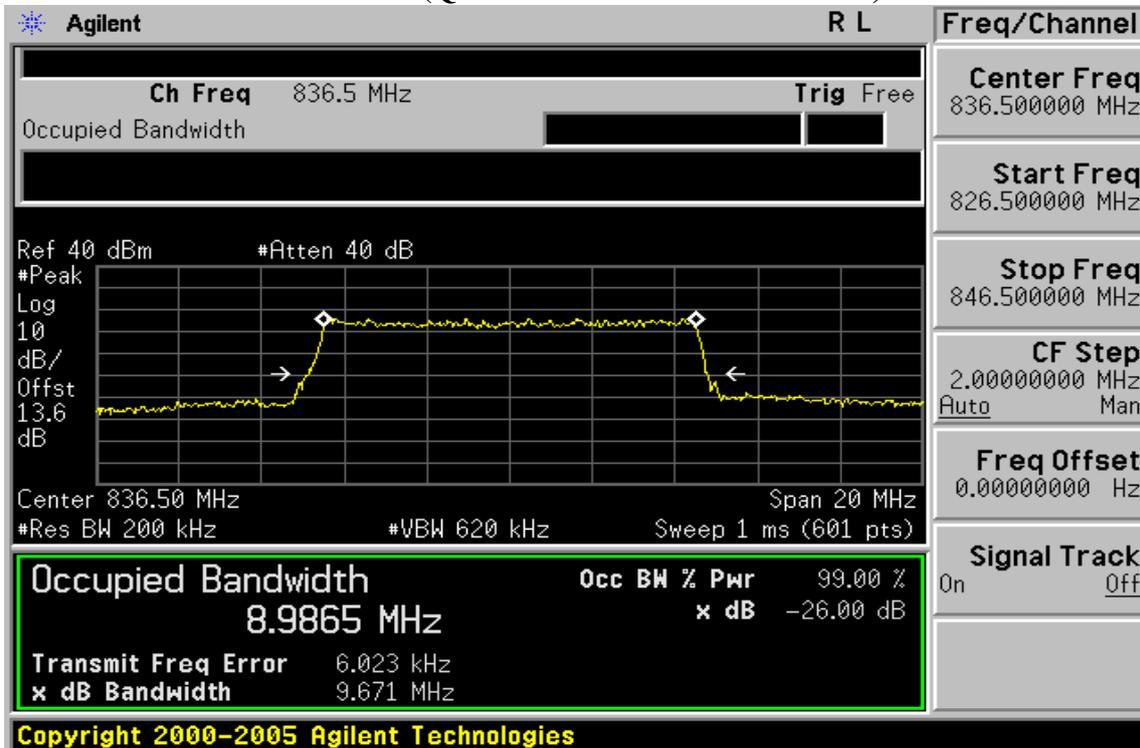
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Mid



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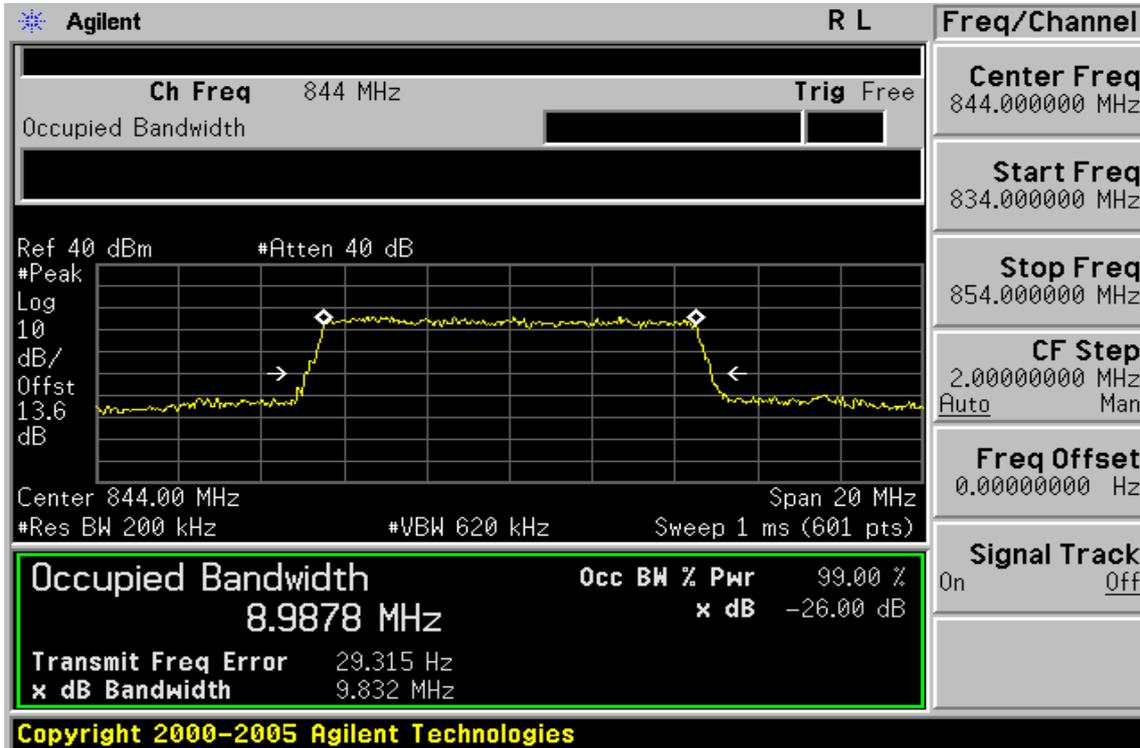
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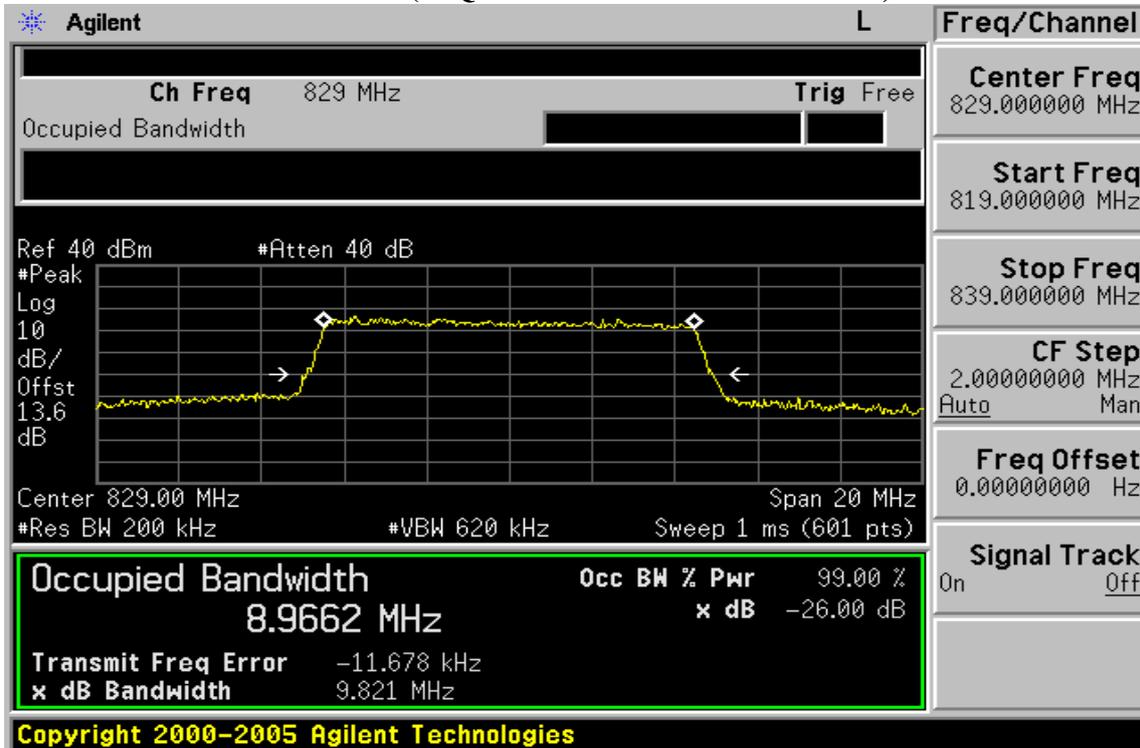
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel High



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



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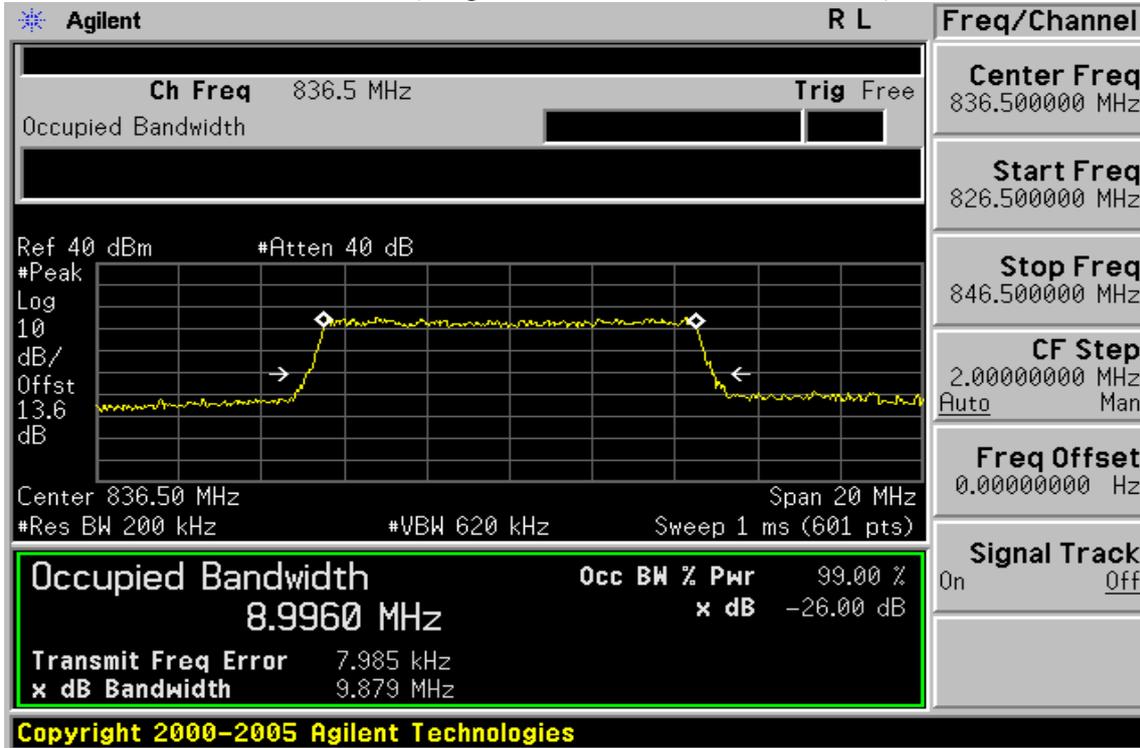
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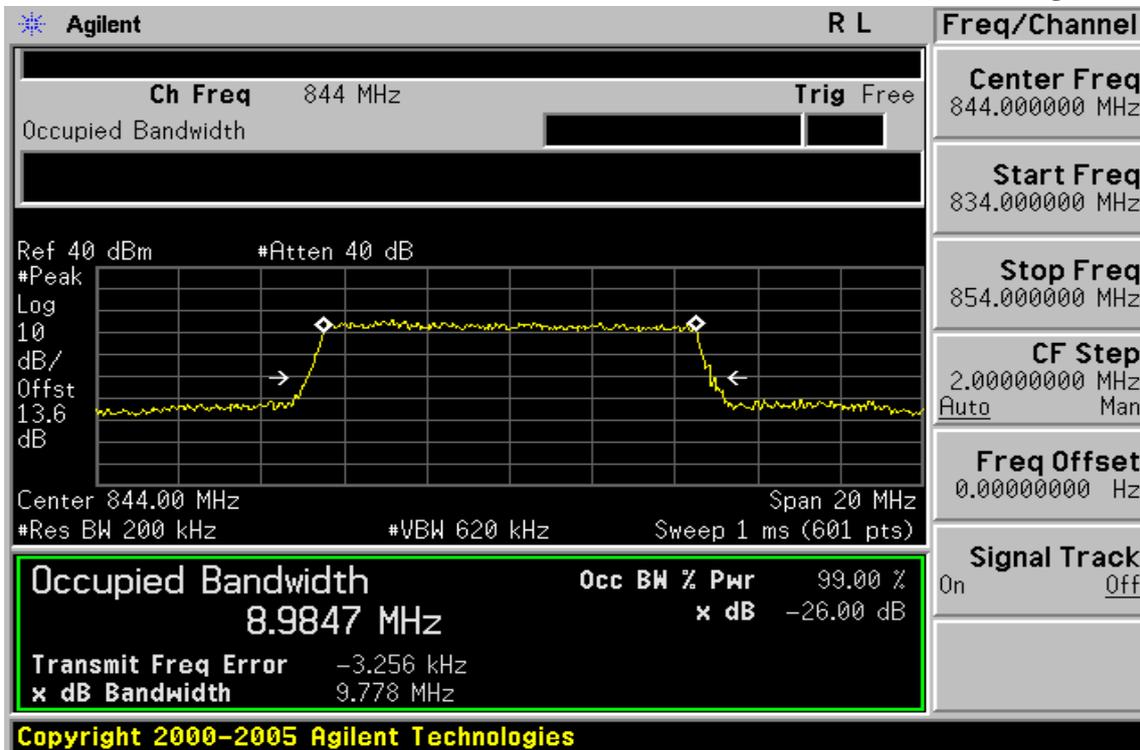
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10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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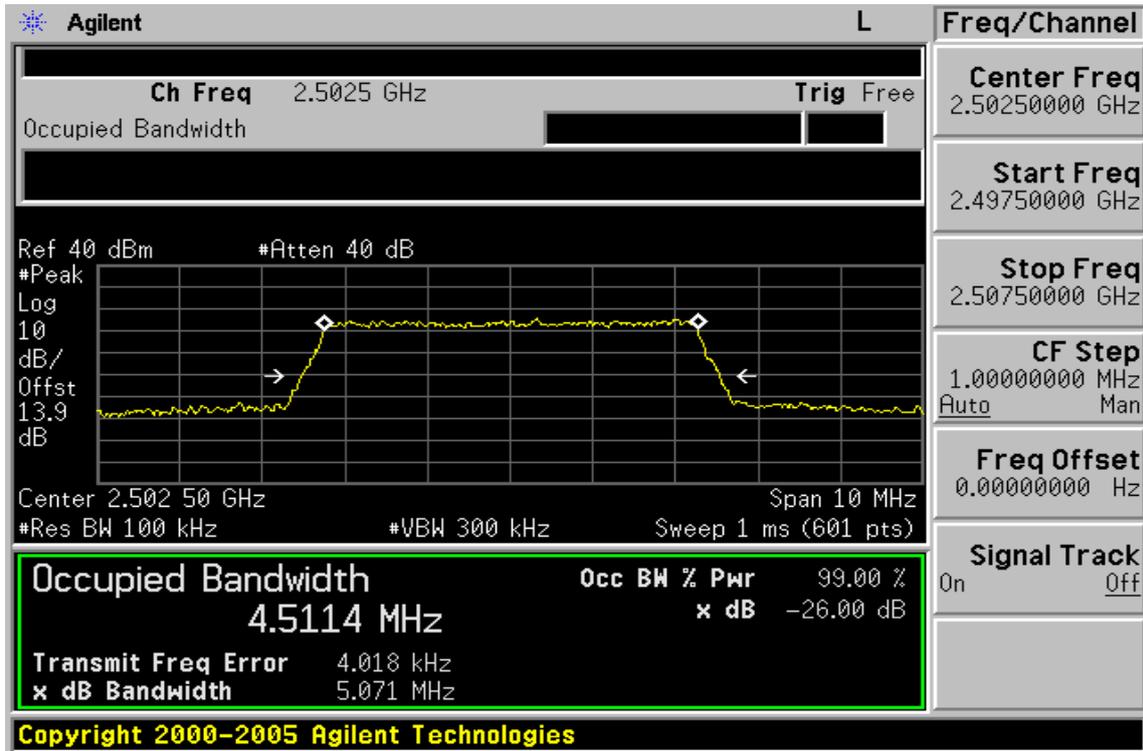
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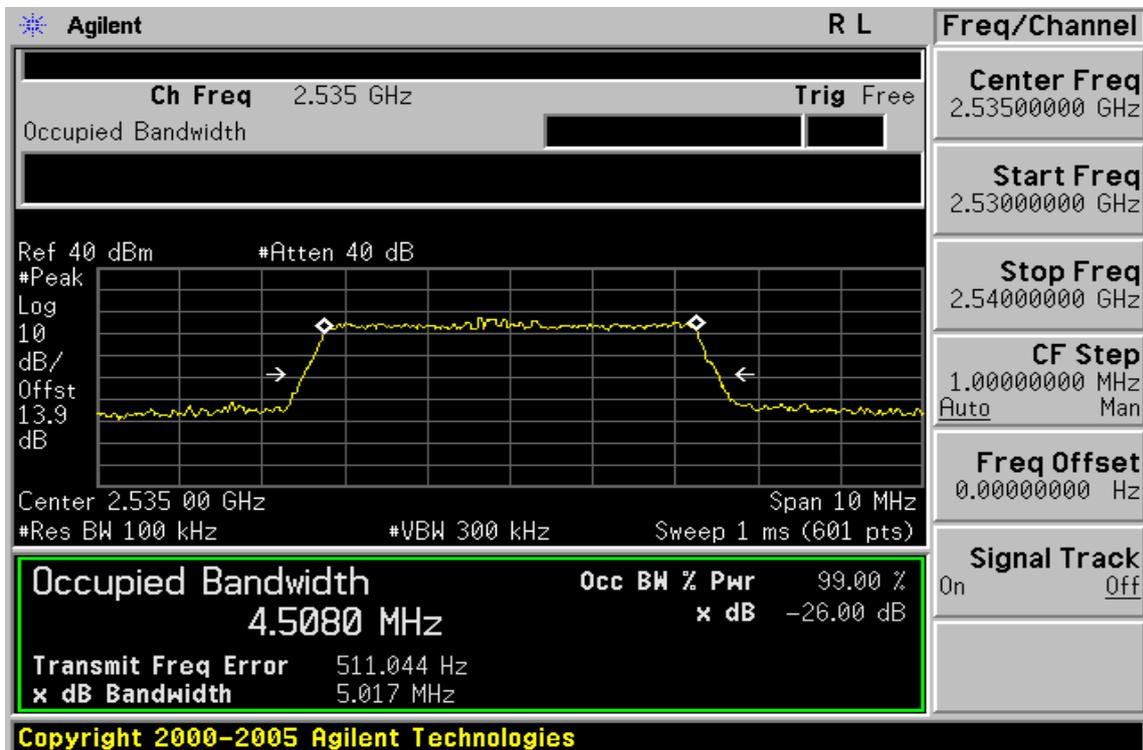
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Mid



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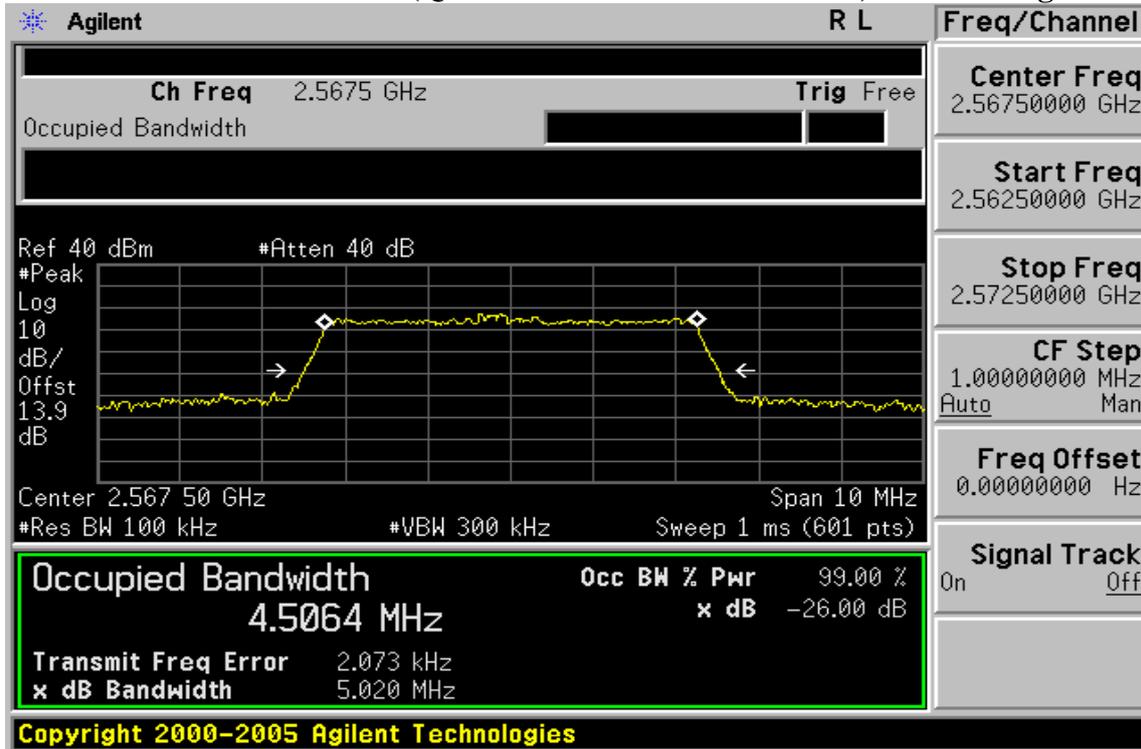
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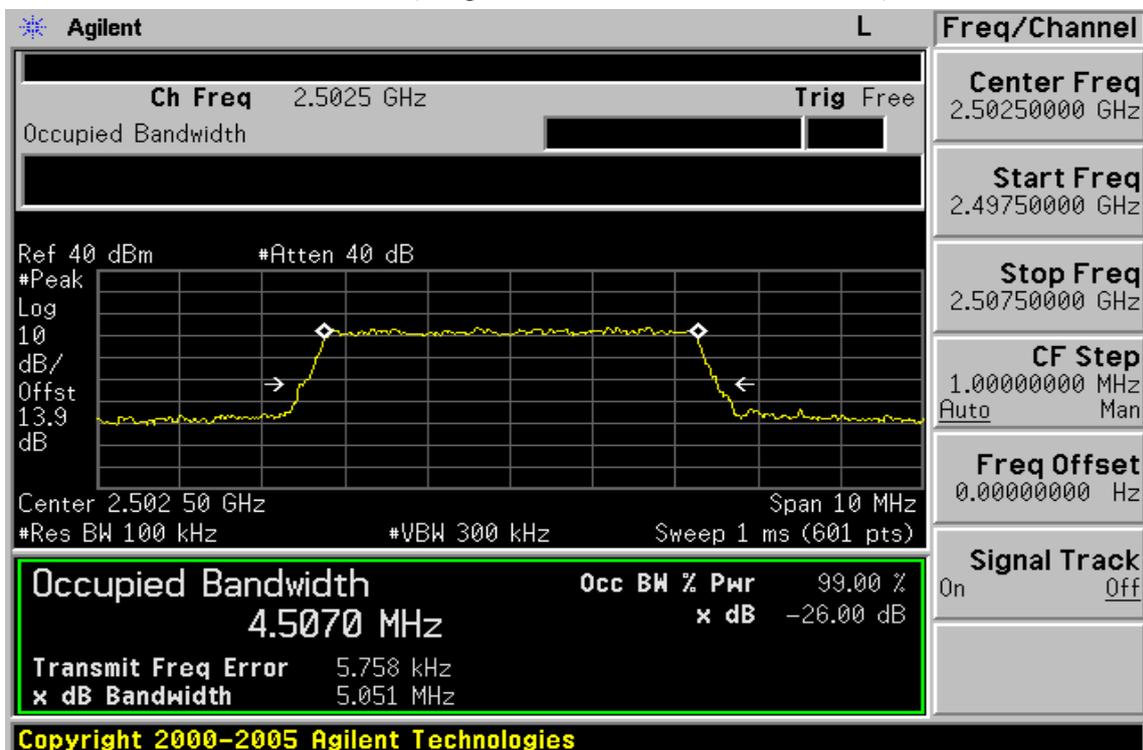
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High



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



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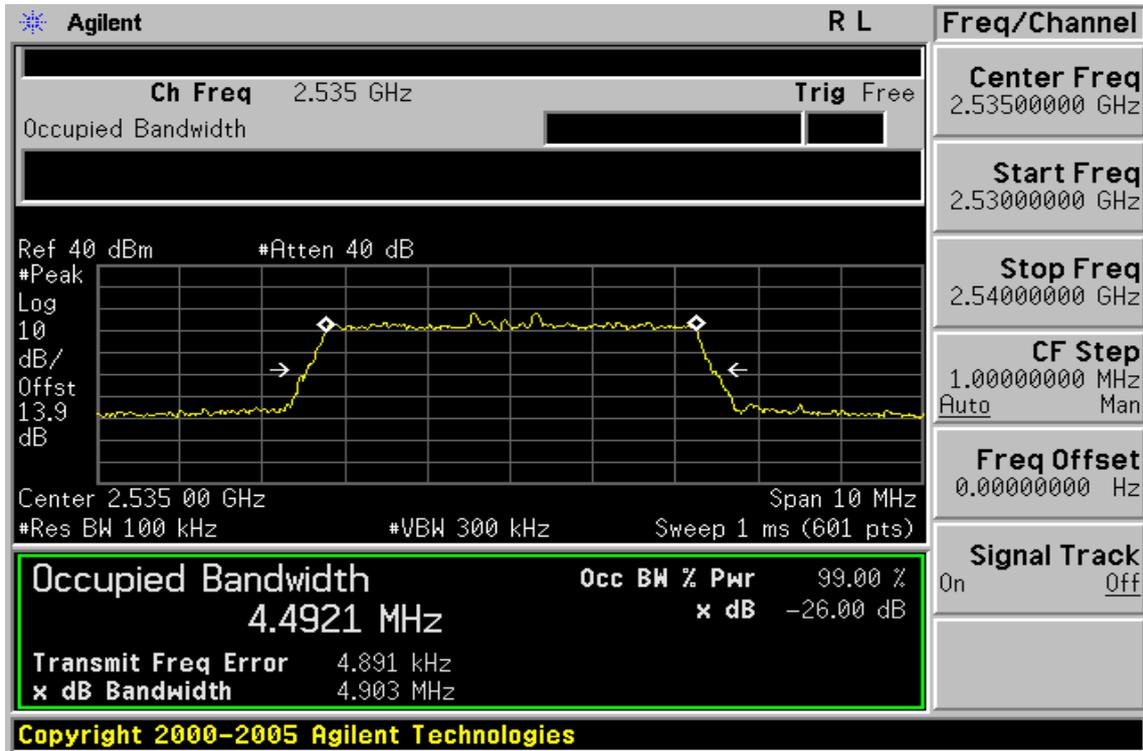
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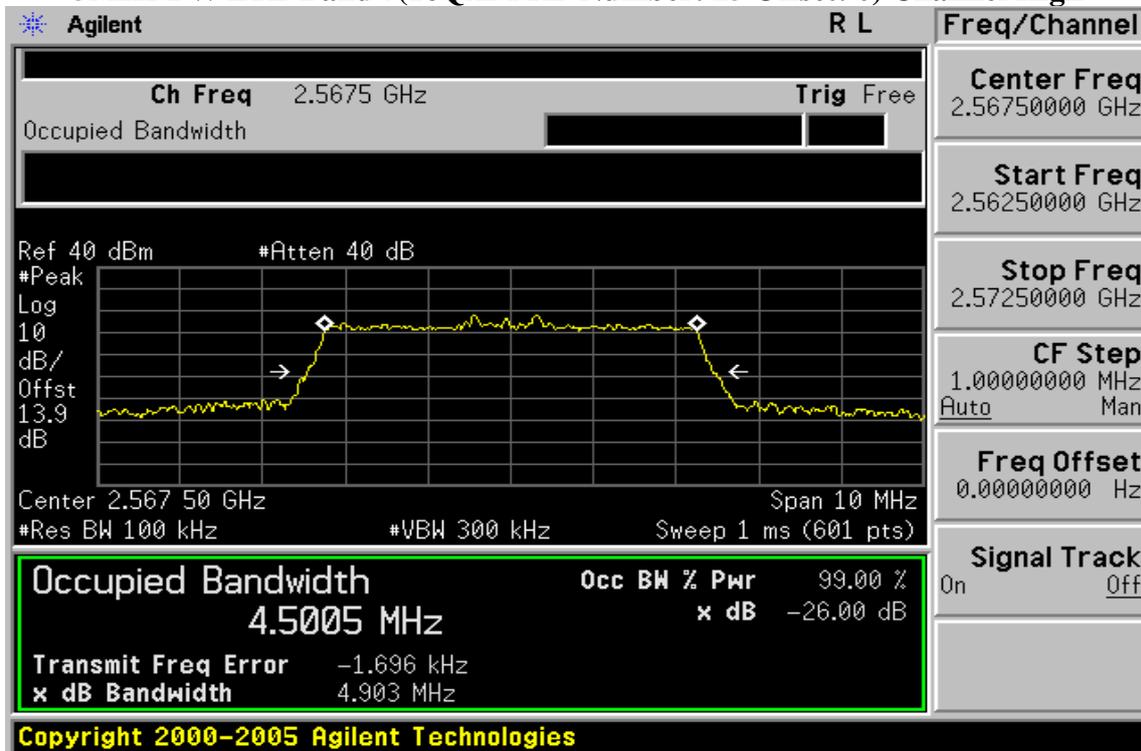
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5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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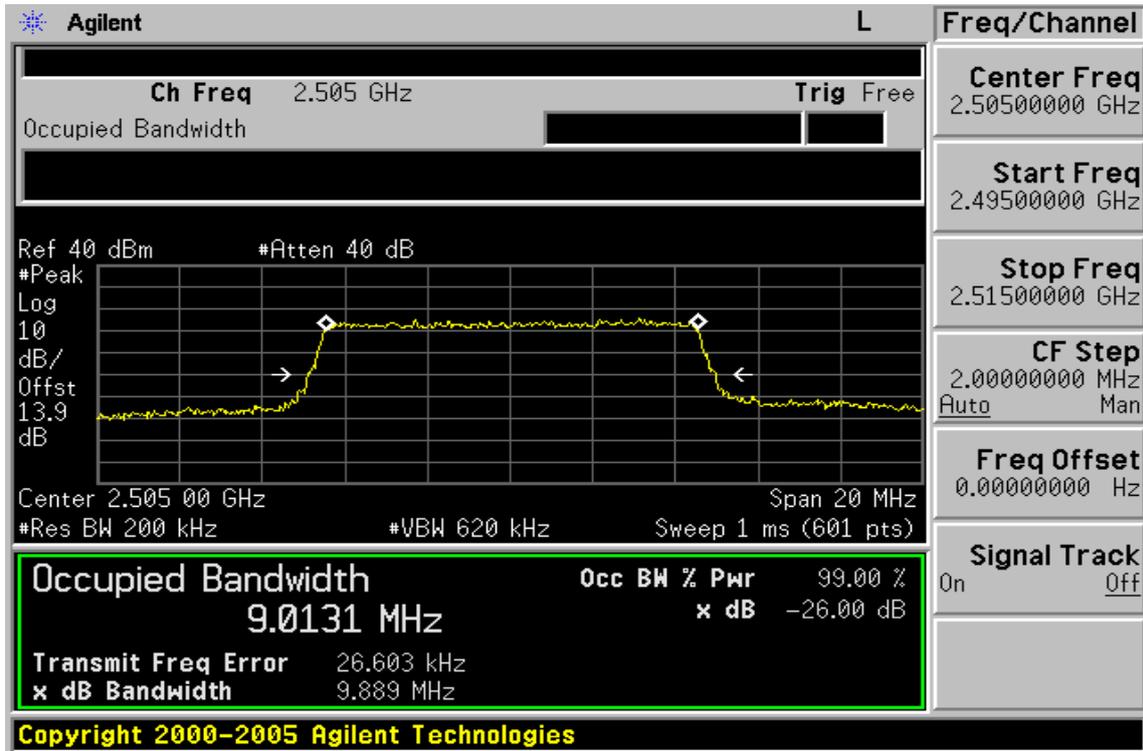
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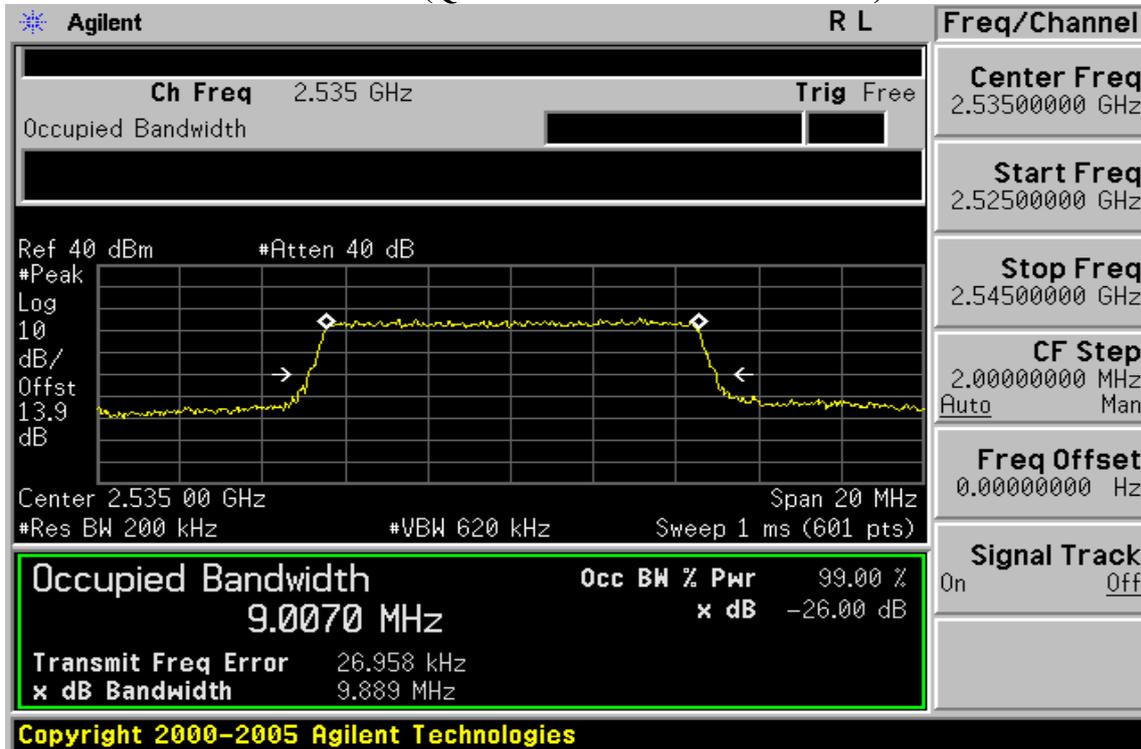
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10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel Mid



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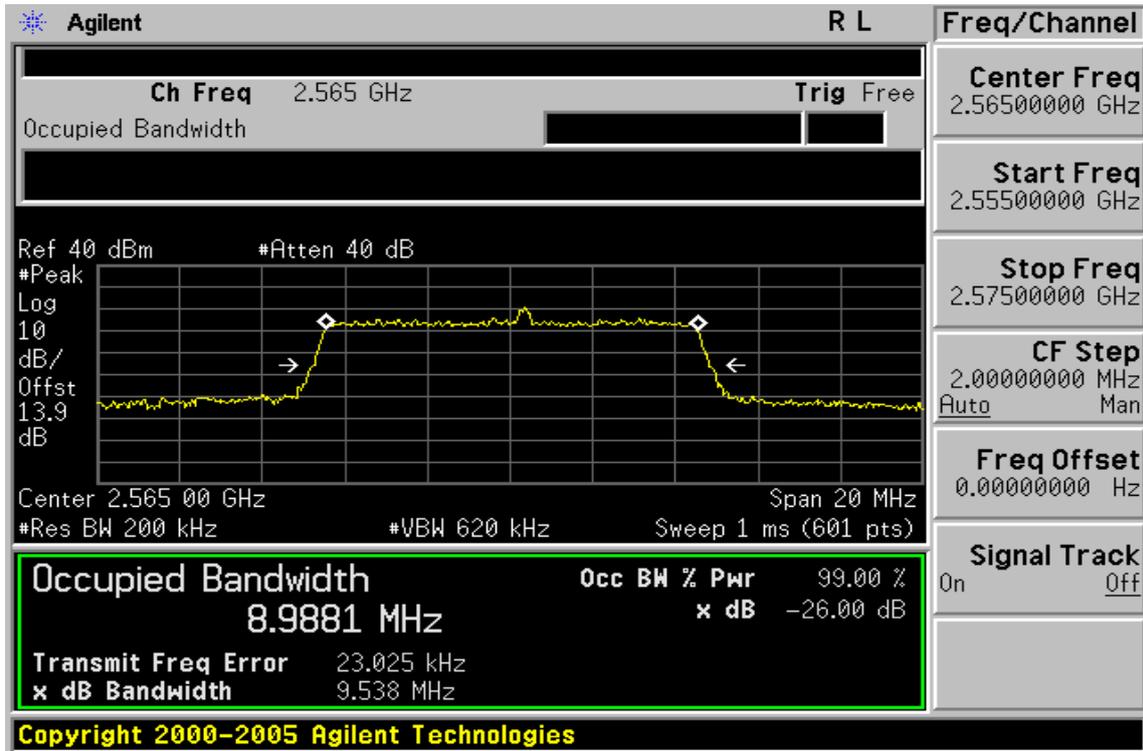
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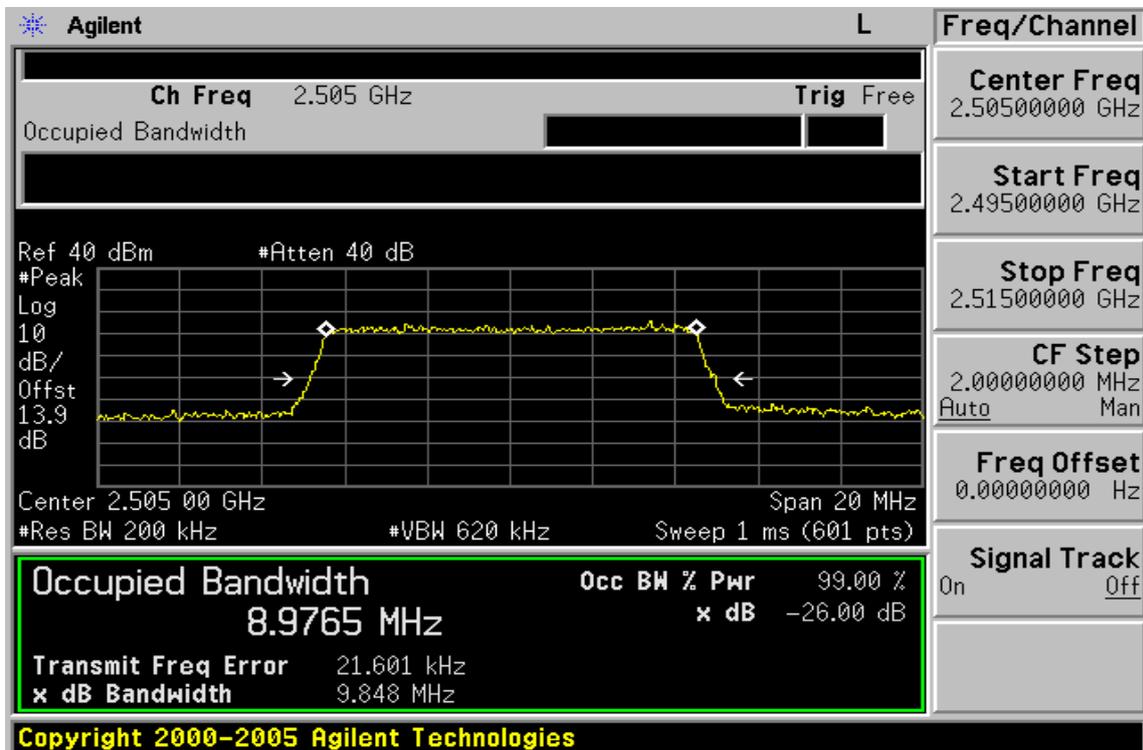
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10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High



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



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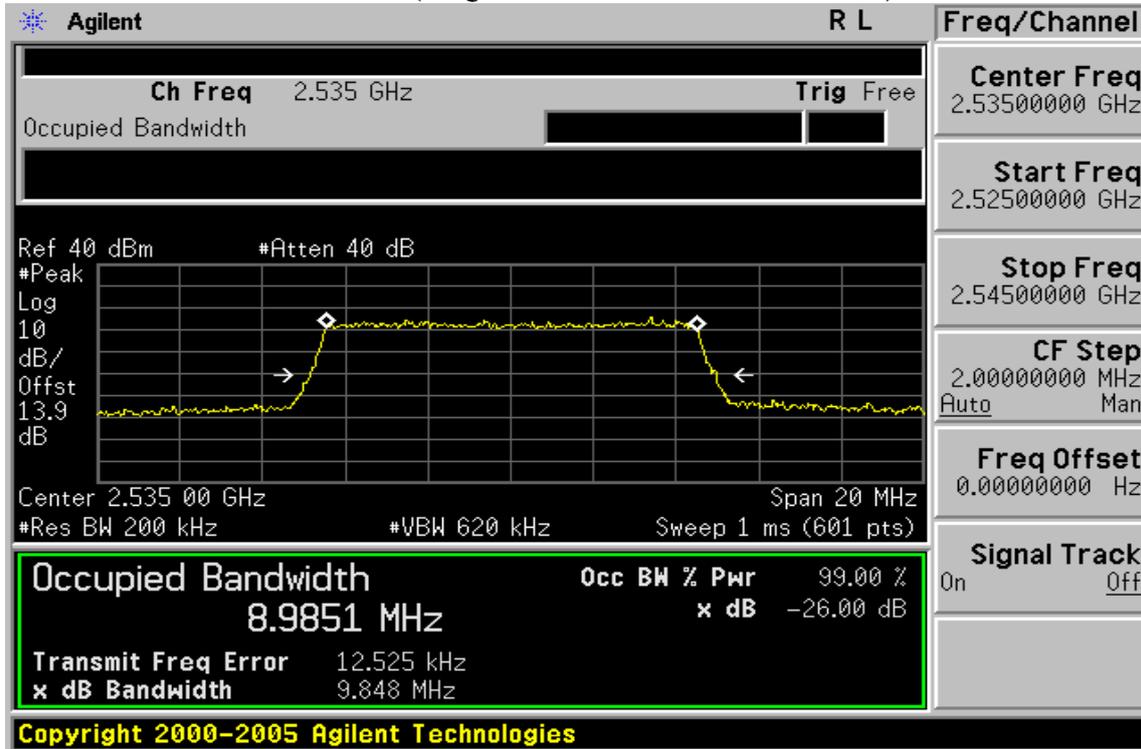
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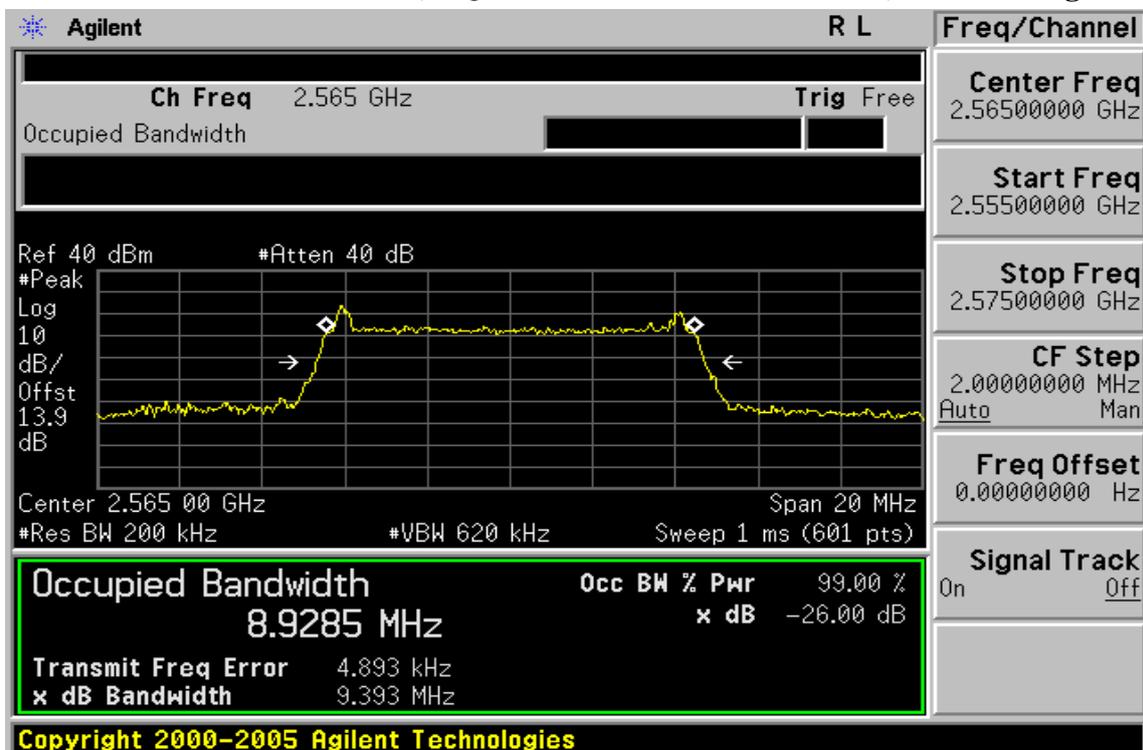
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10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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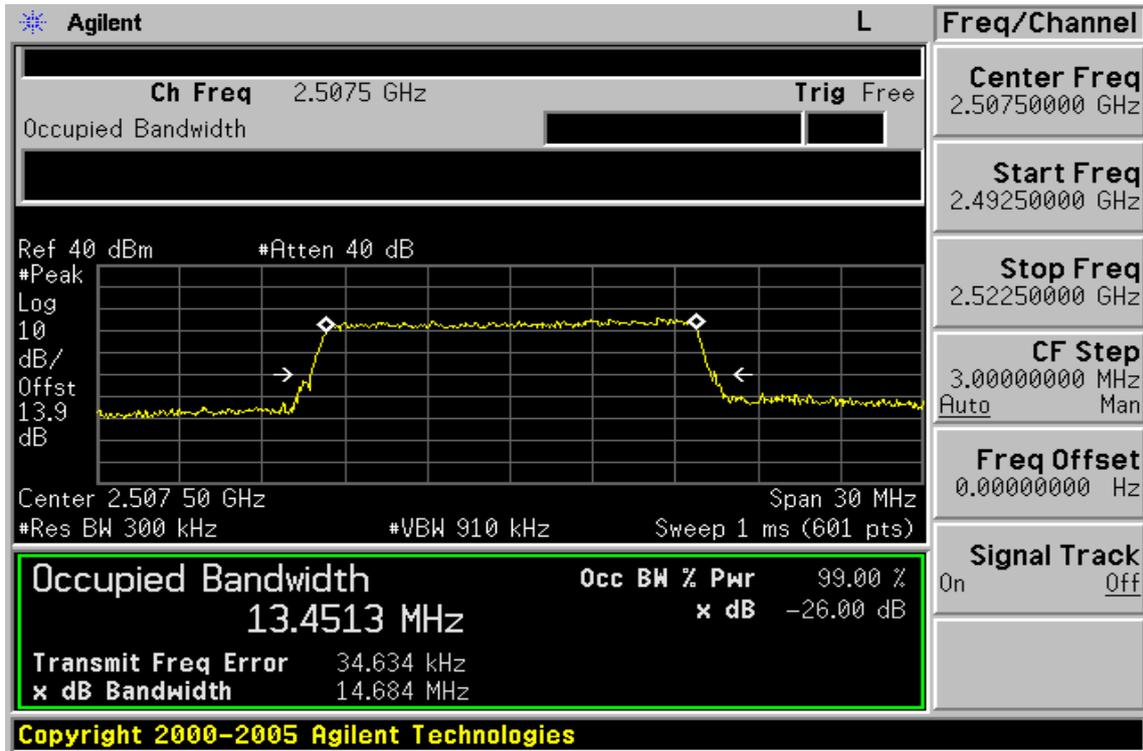
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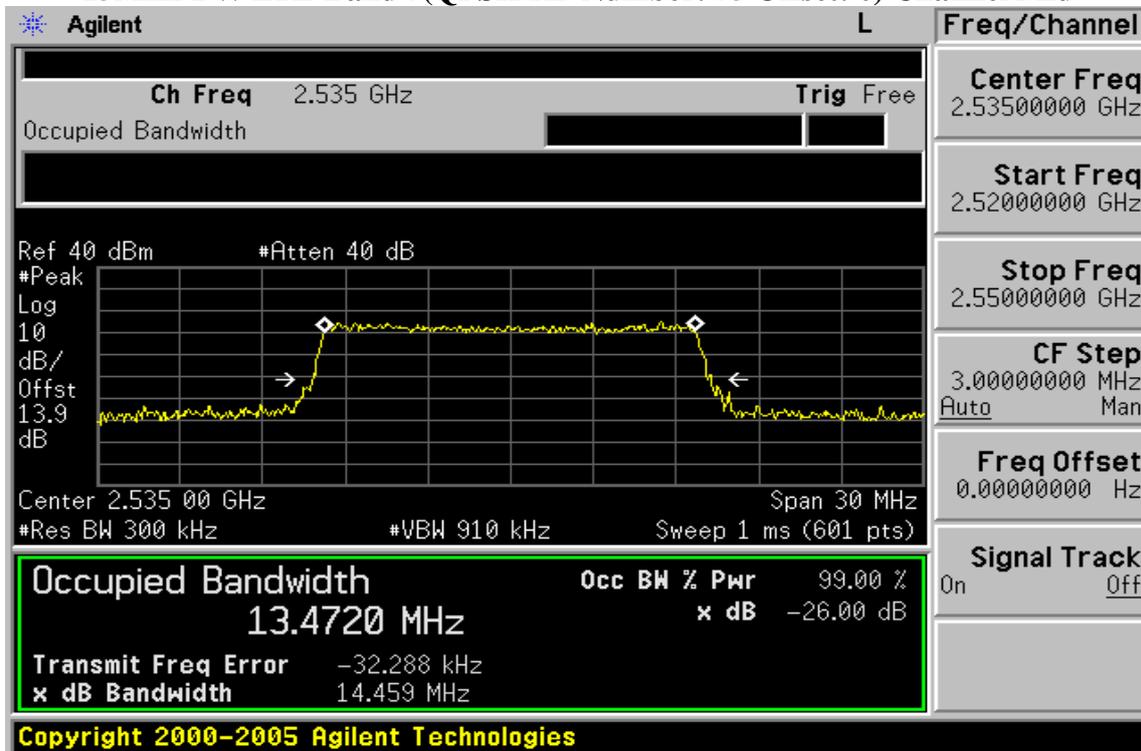
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15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel Mid



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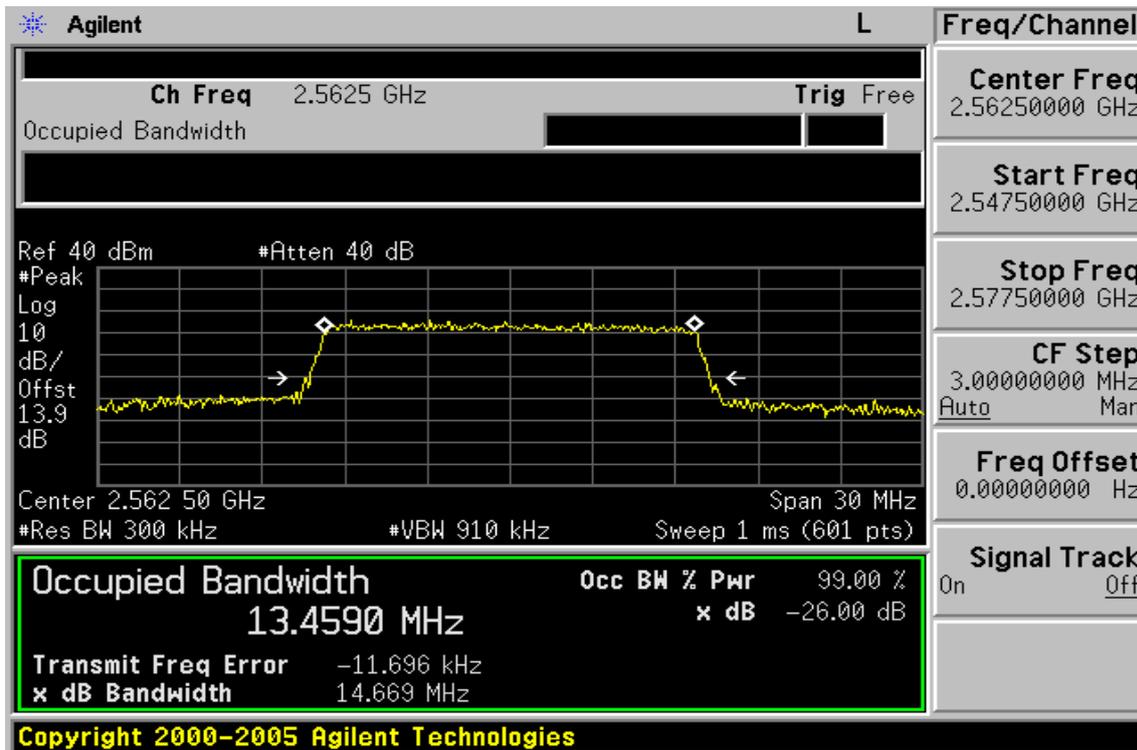
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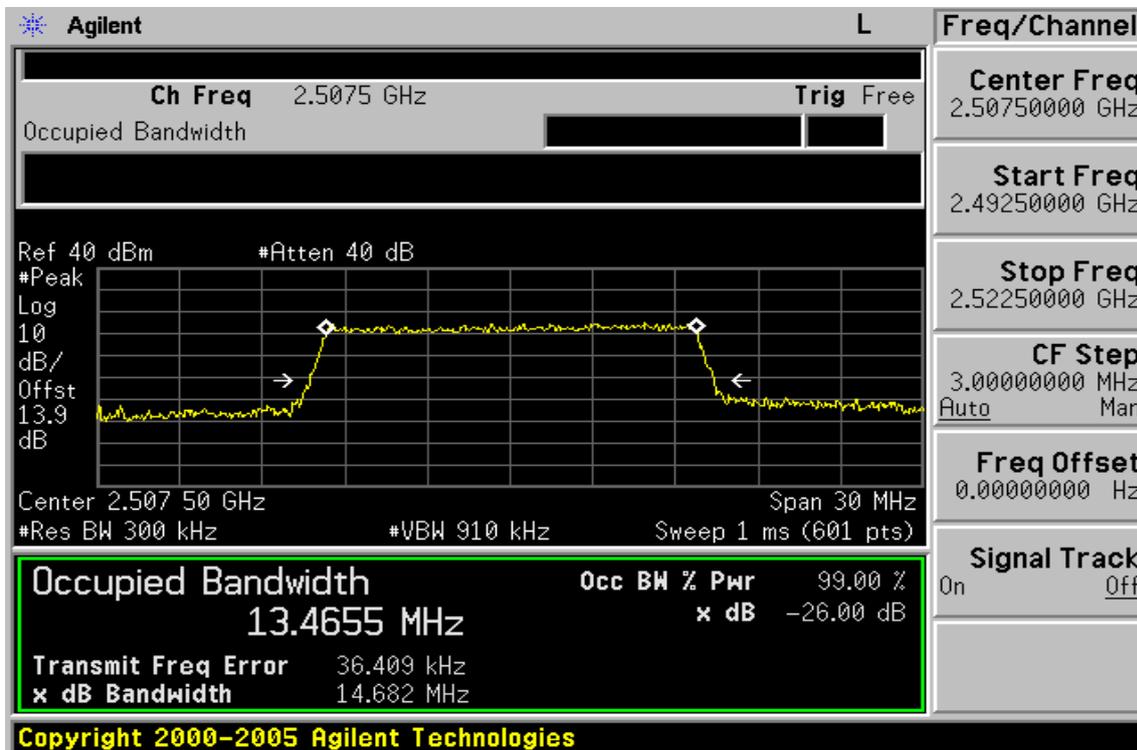
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15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High



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



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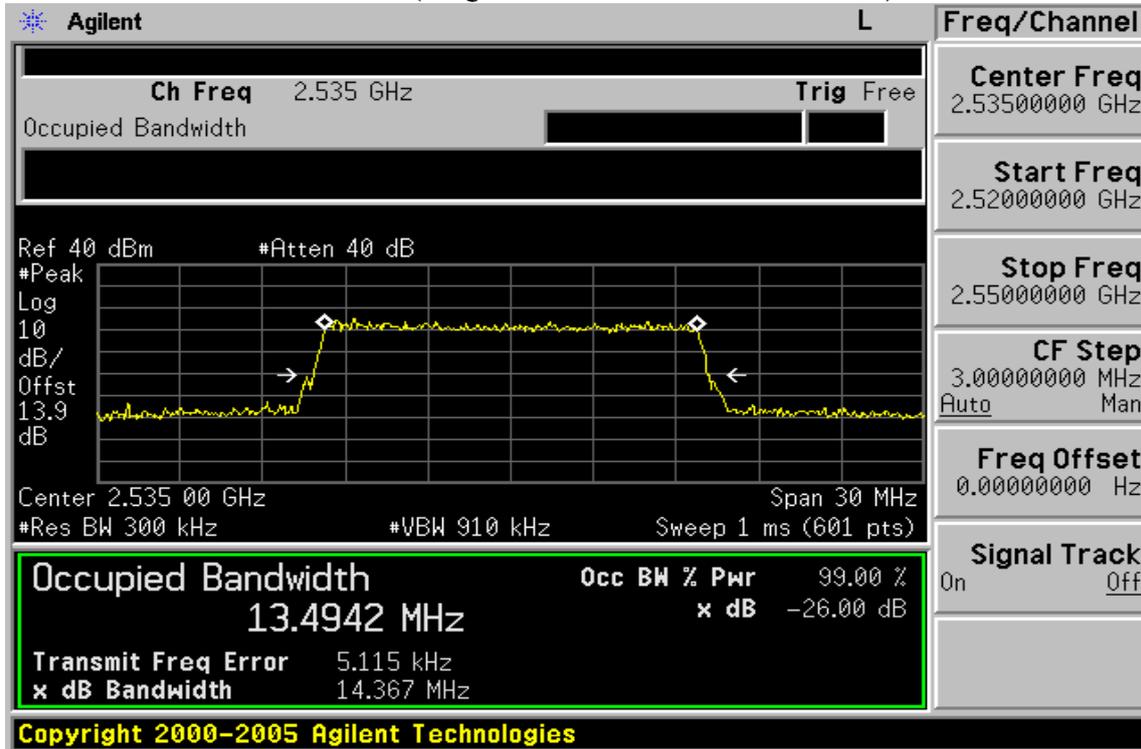
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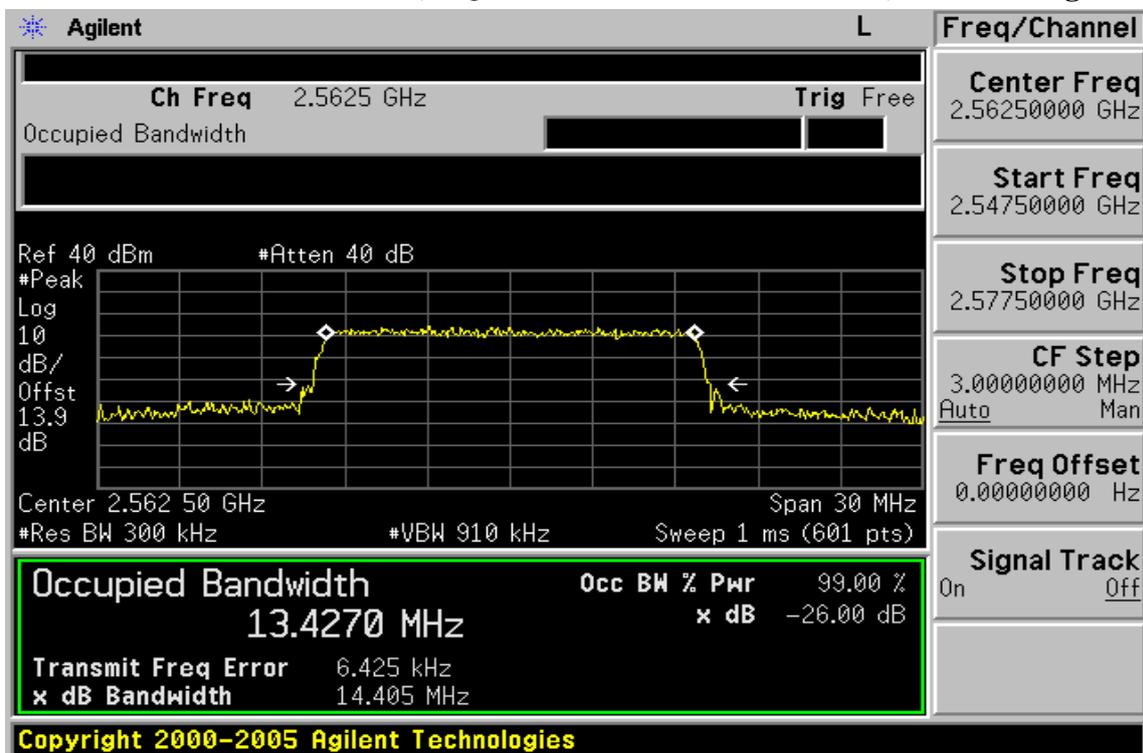
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15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid



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



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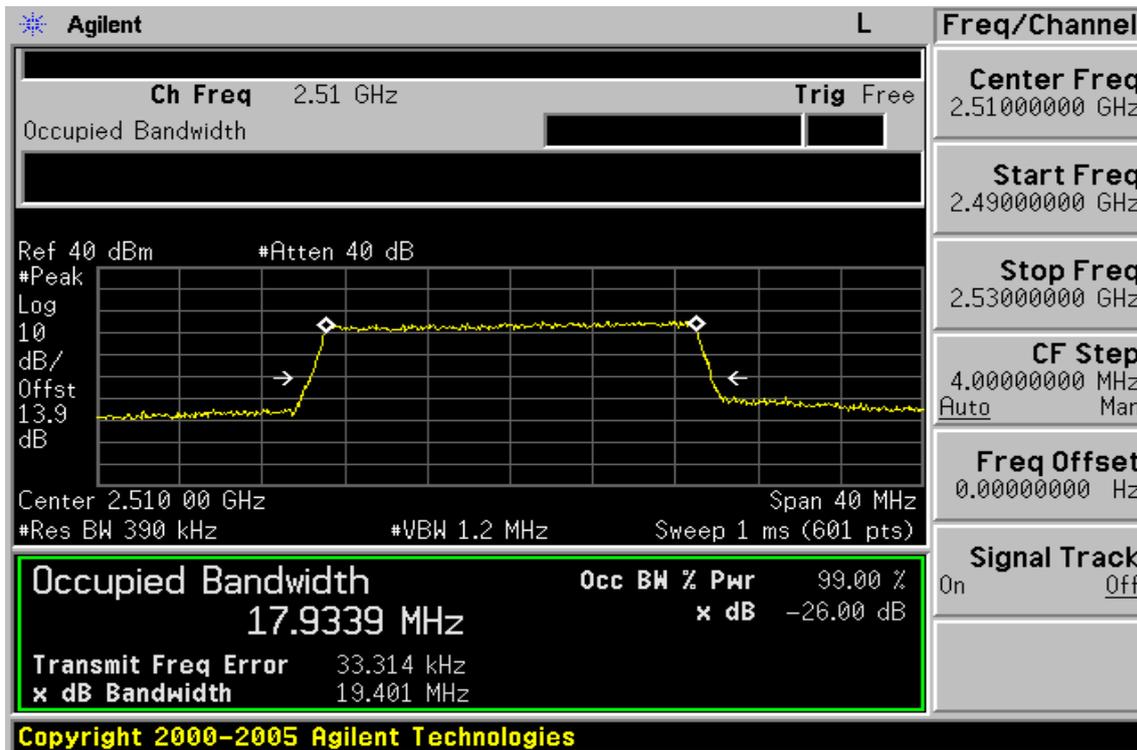
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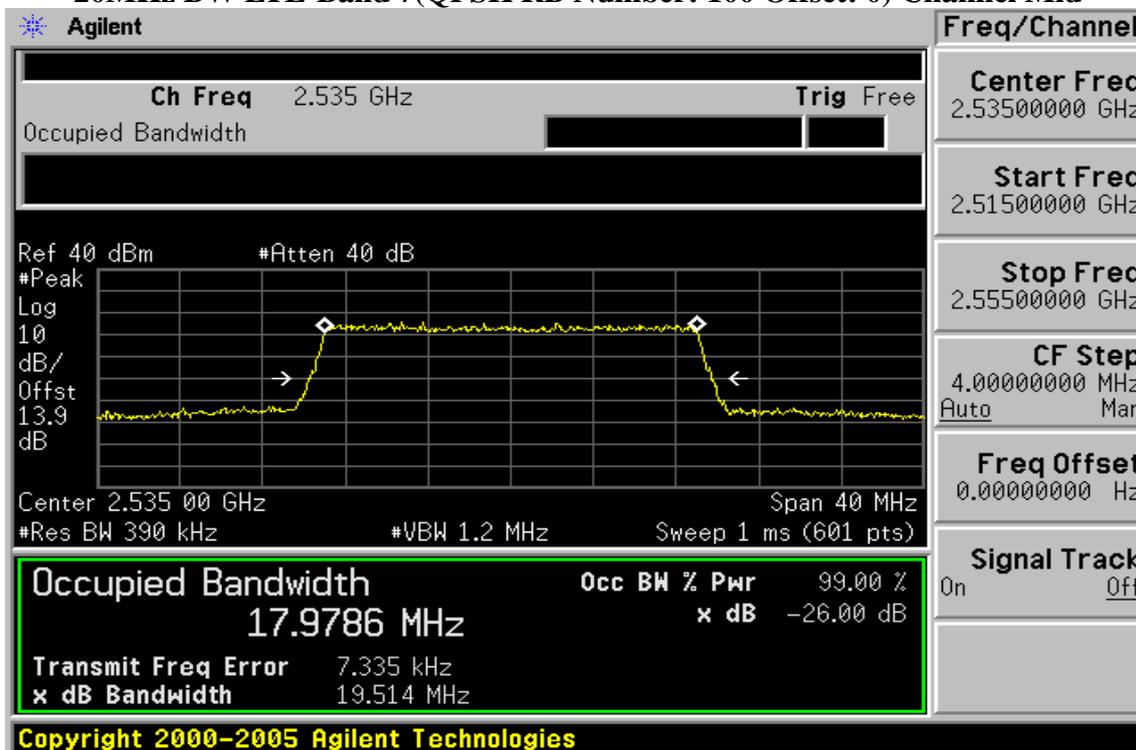
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20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel Mid



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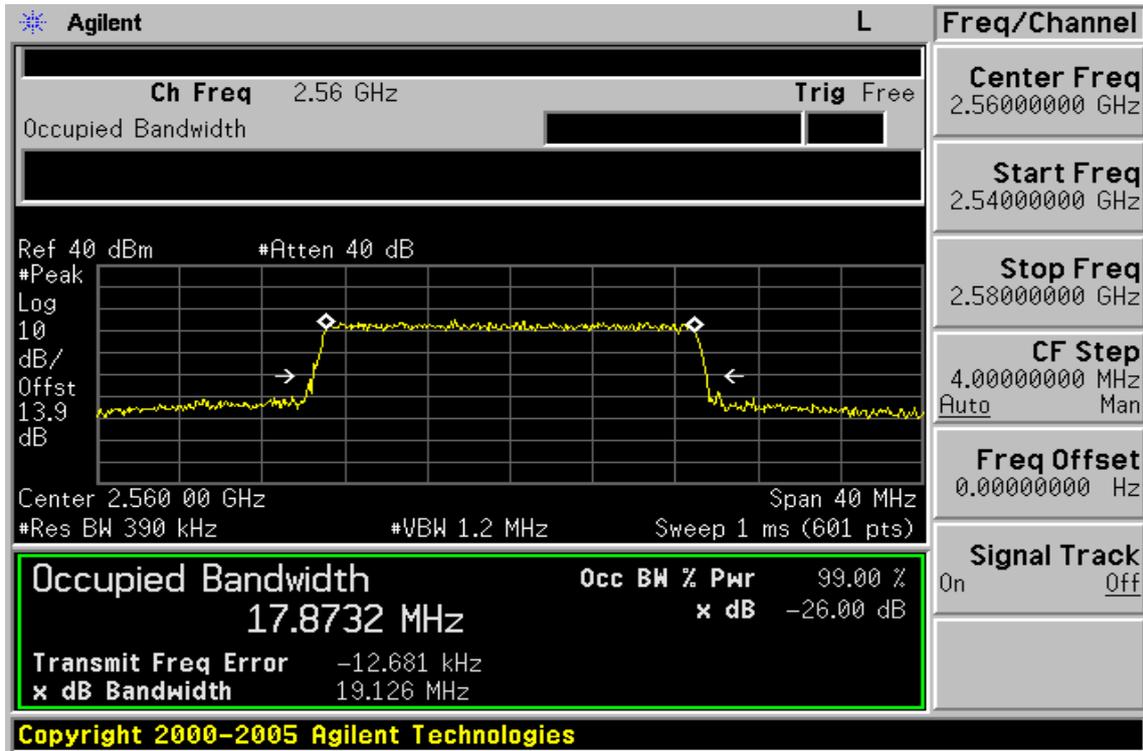
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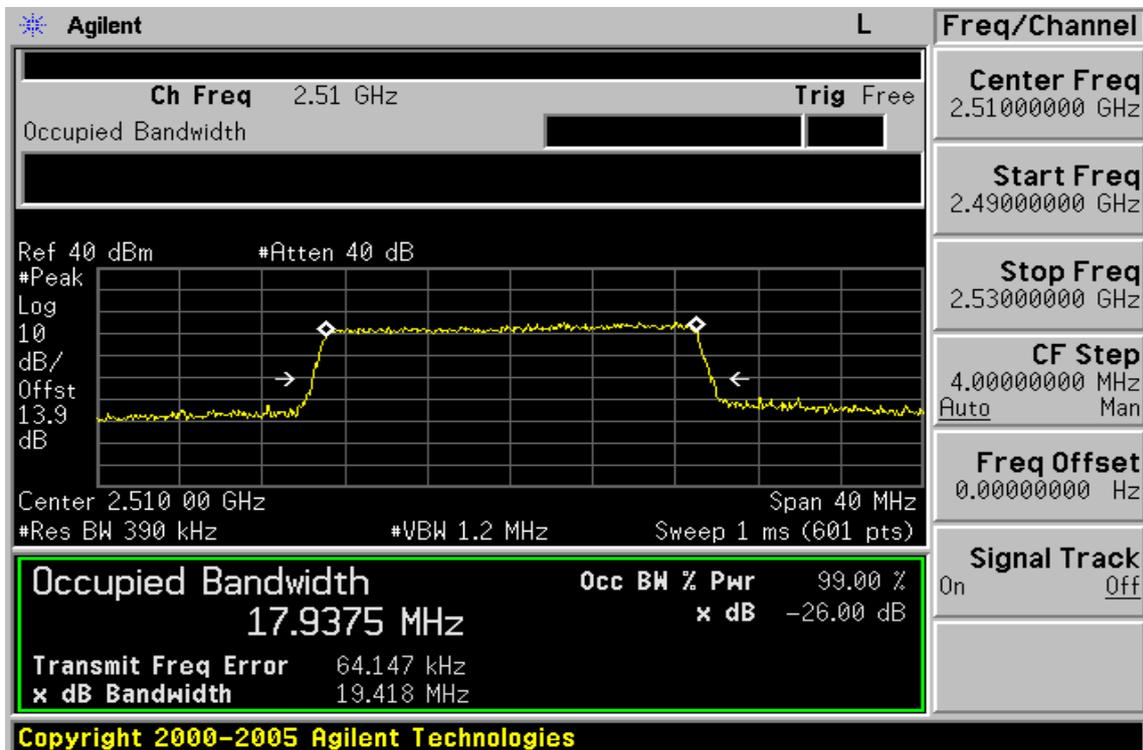
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20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High



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



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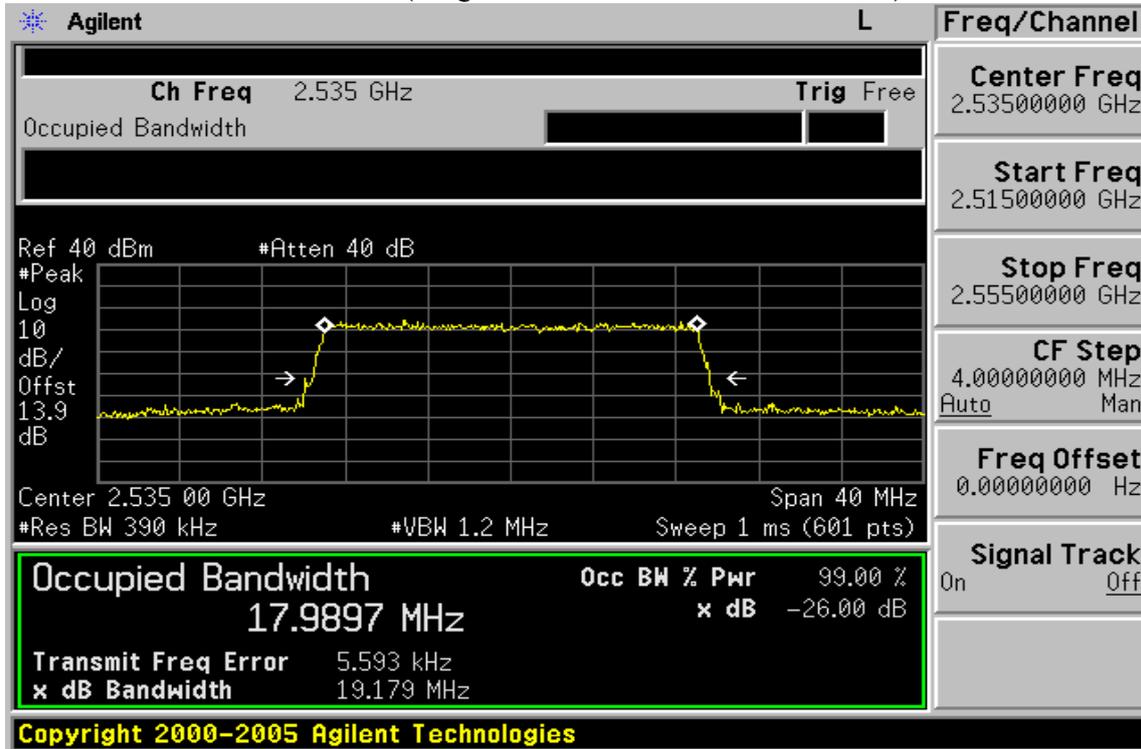
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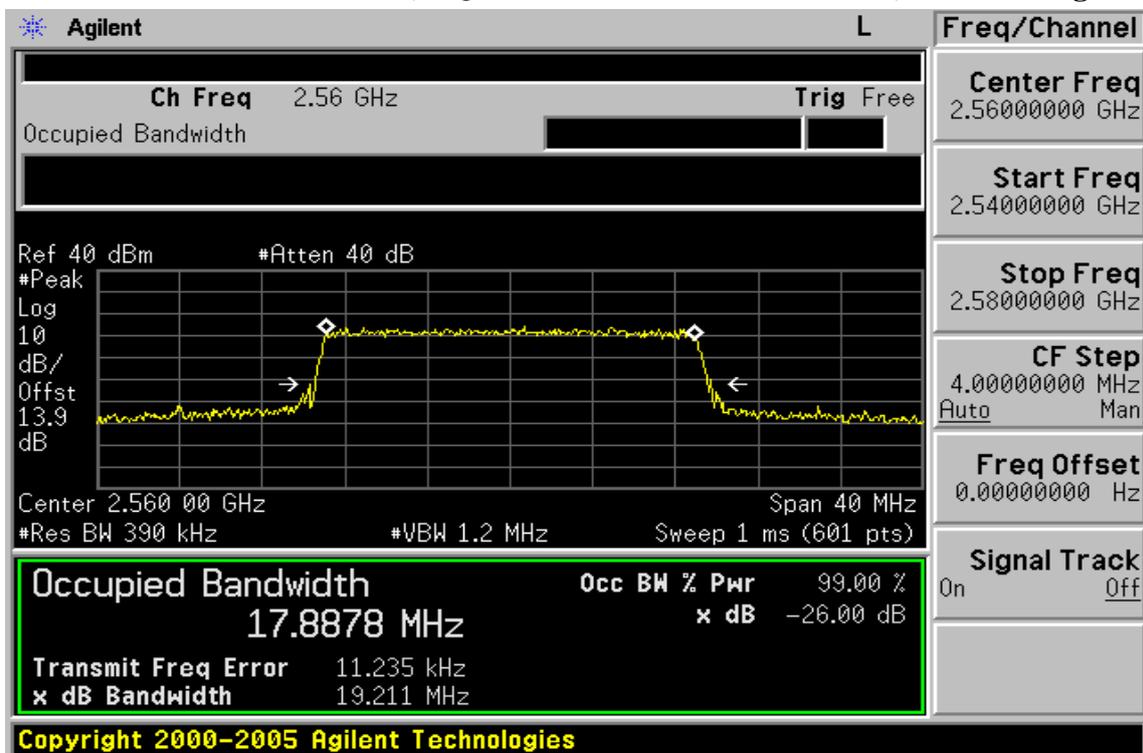
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20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid



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



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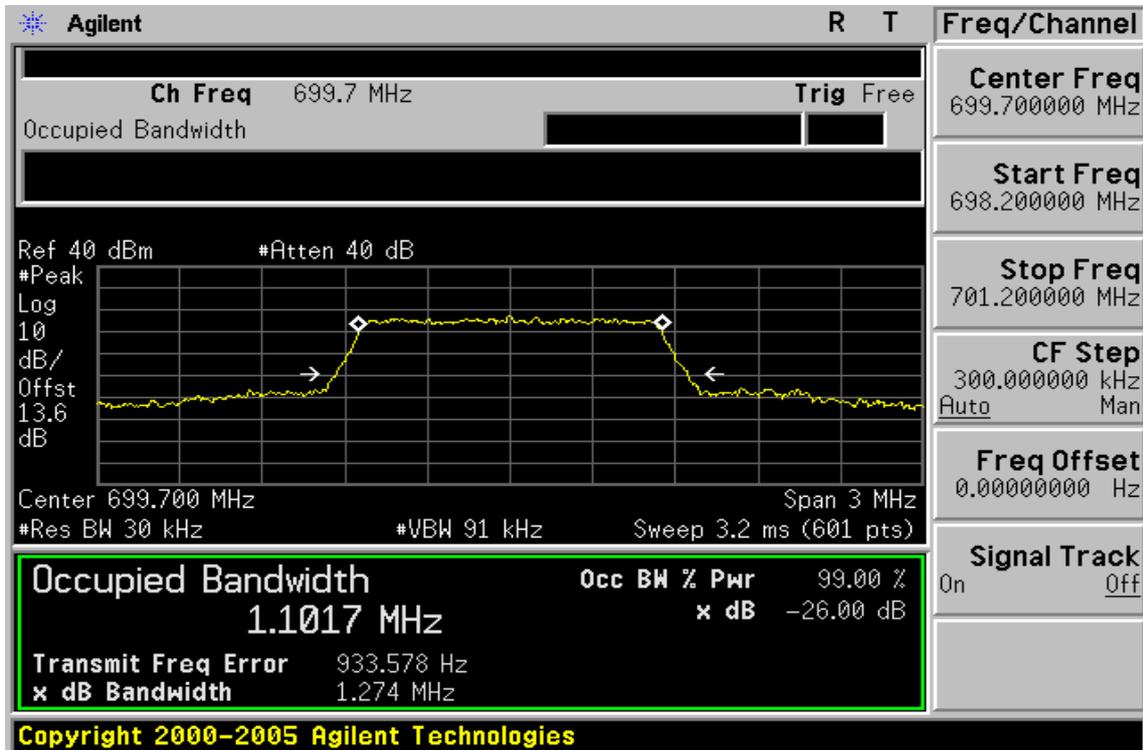
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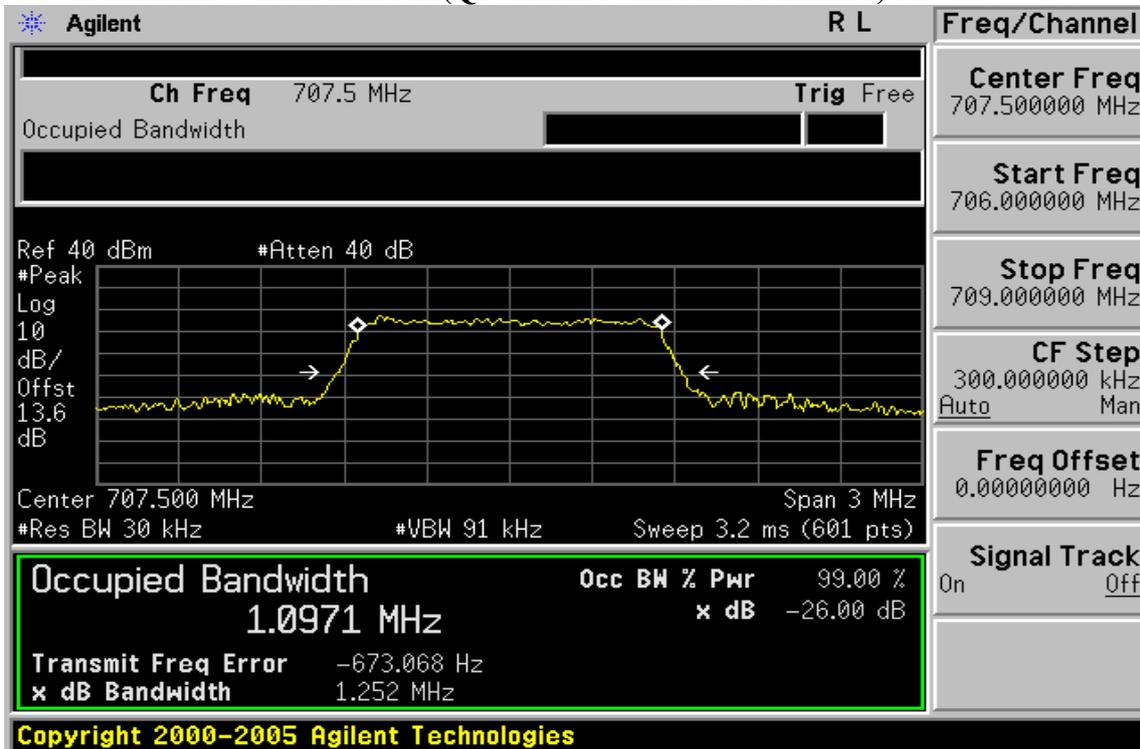
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1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel Mid



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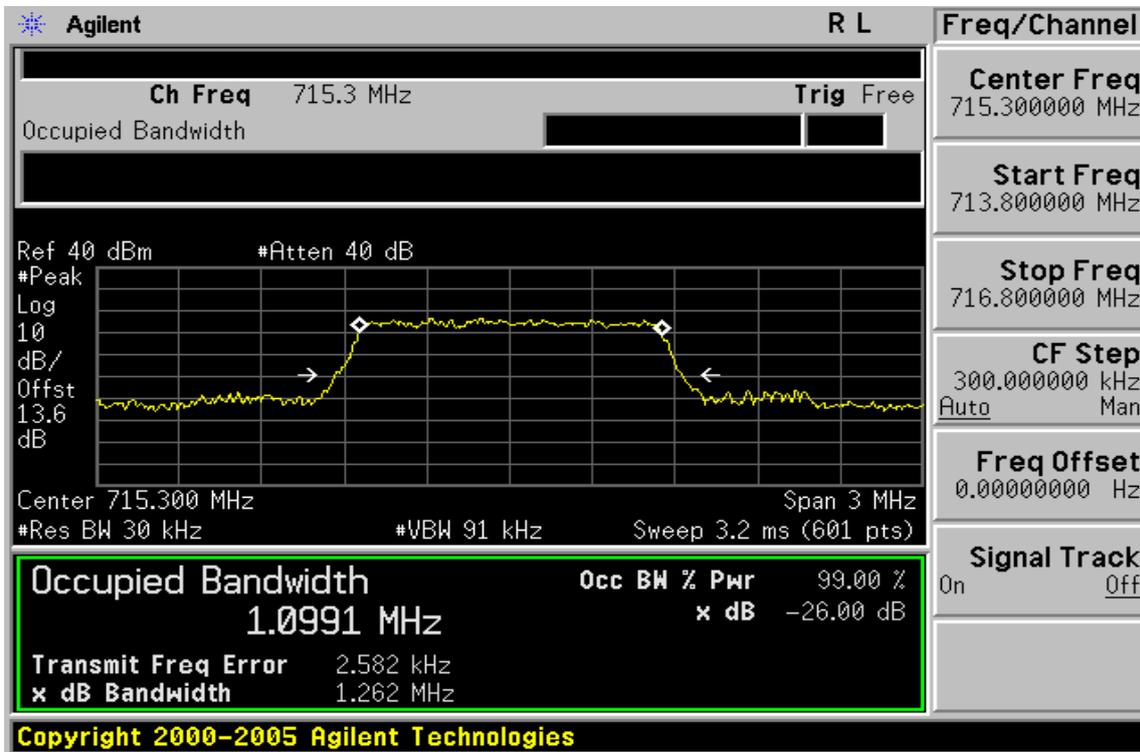
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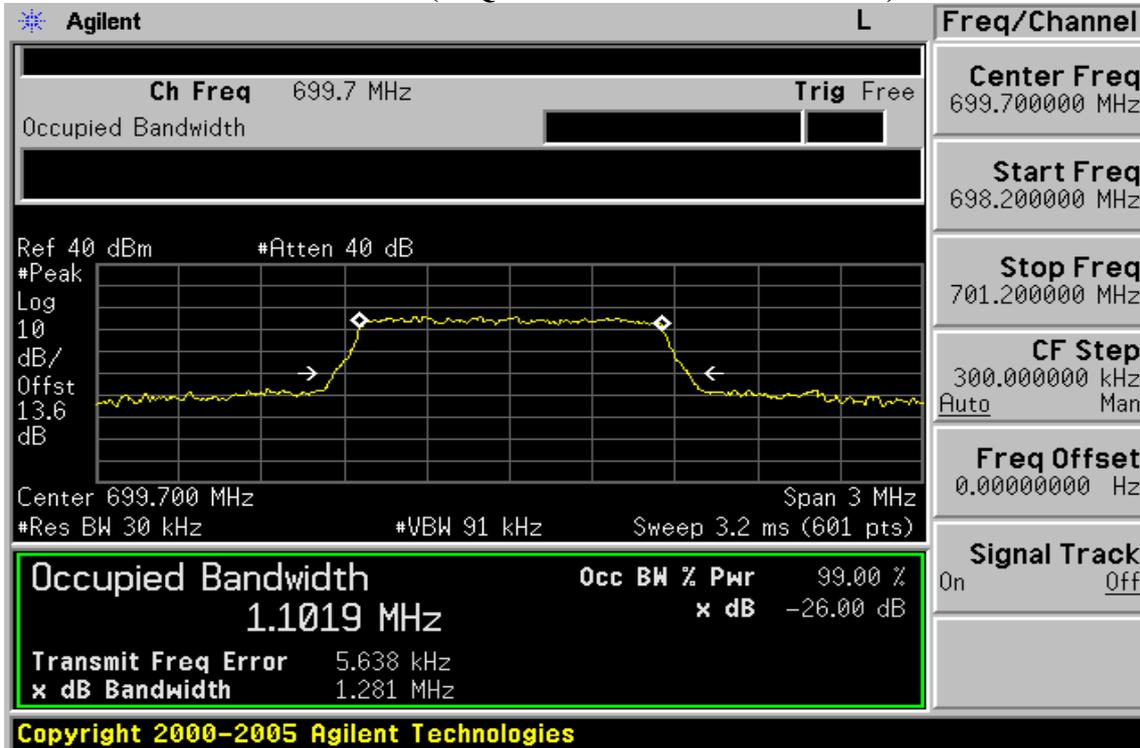
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1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 12(16QAM RB Number: 6 Offset: 0) Channel Low



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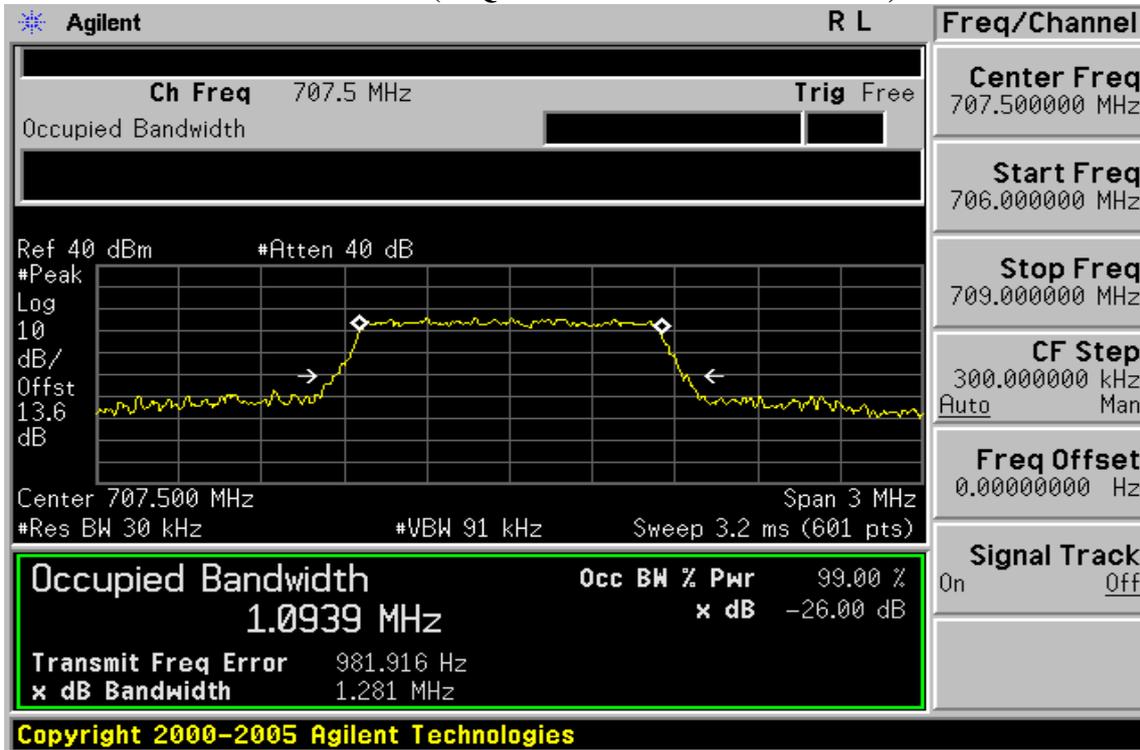
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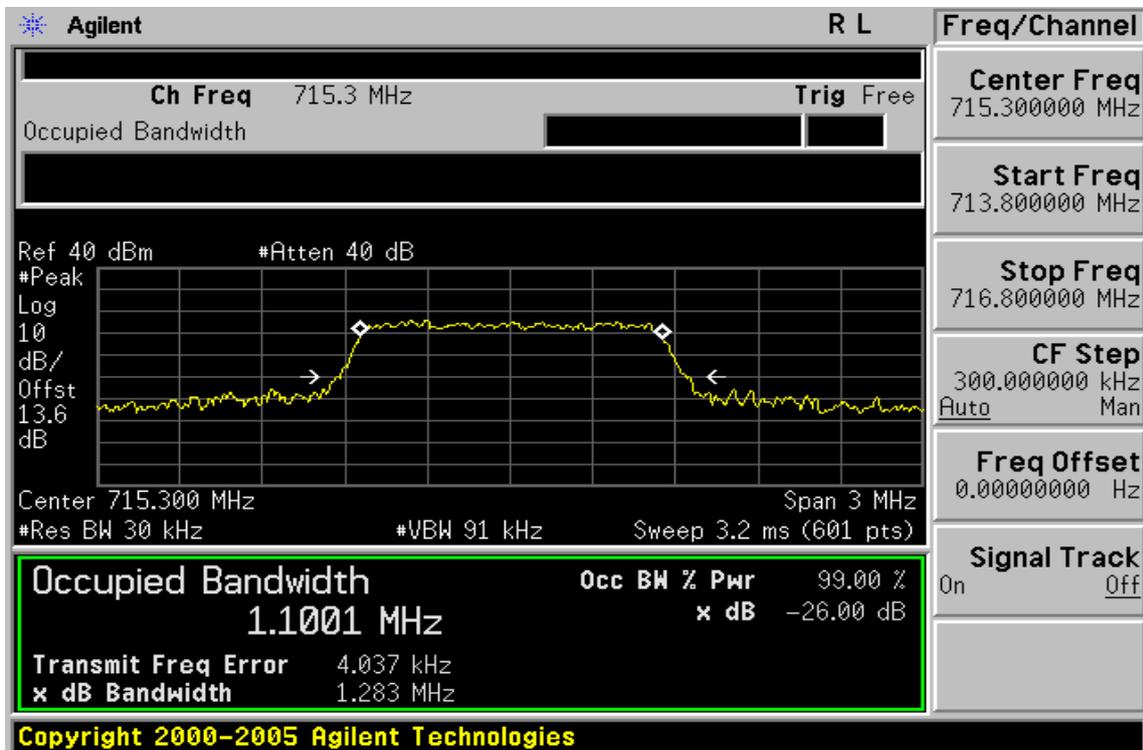
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1.4MHz BW LTE-Band 12(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 12(16QAM RB Number: 6 Offset: 0) Channel High



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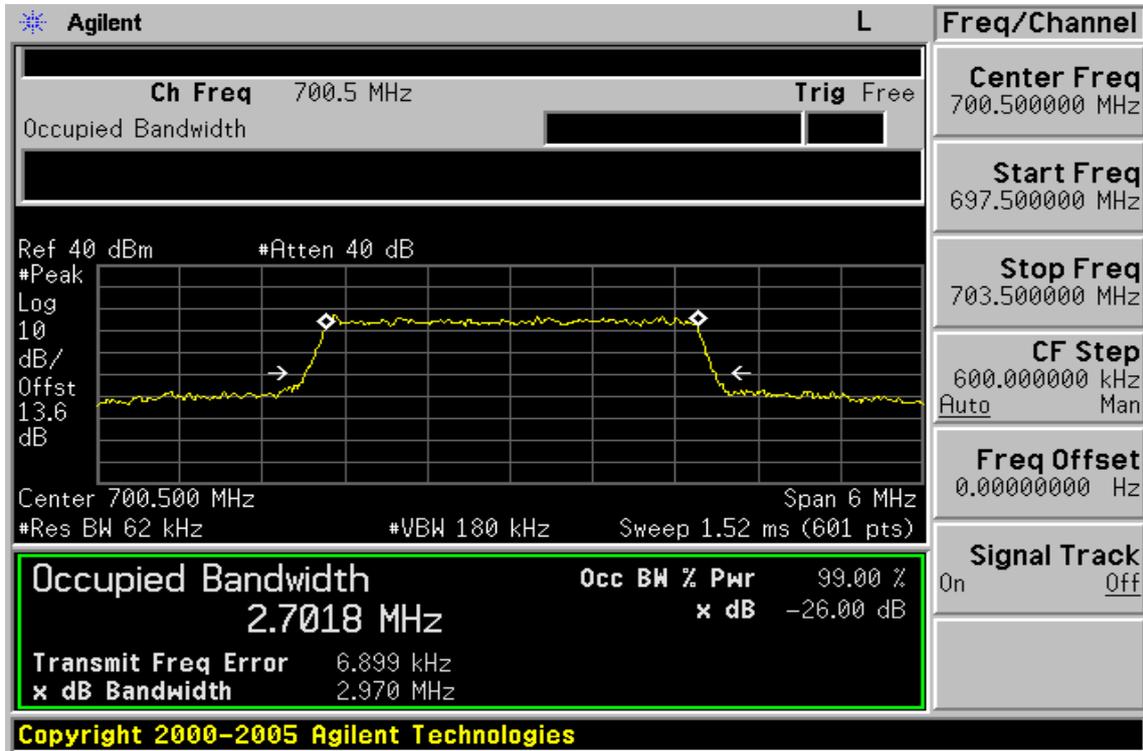
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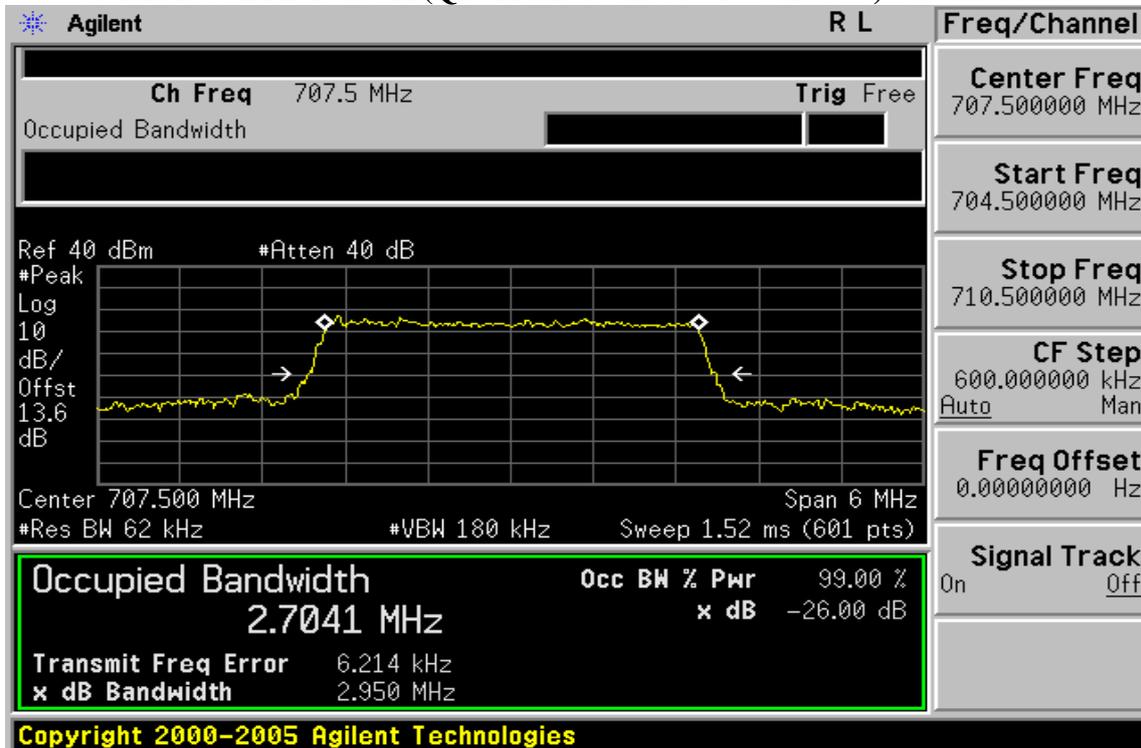
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3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel Mid



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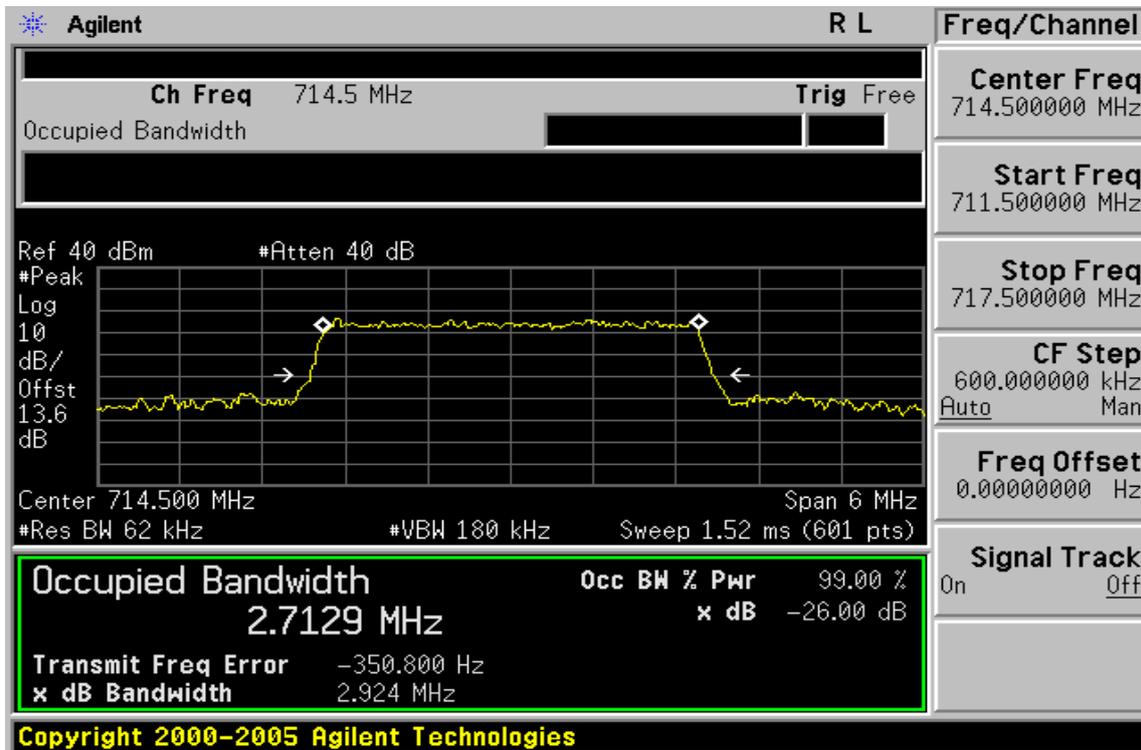
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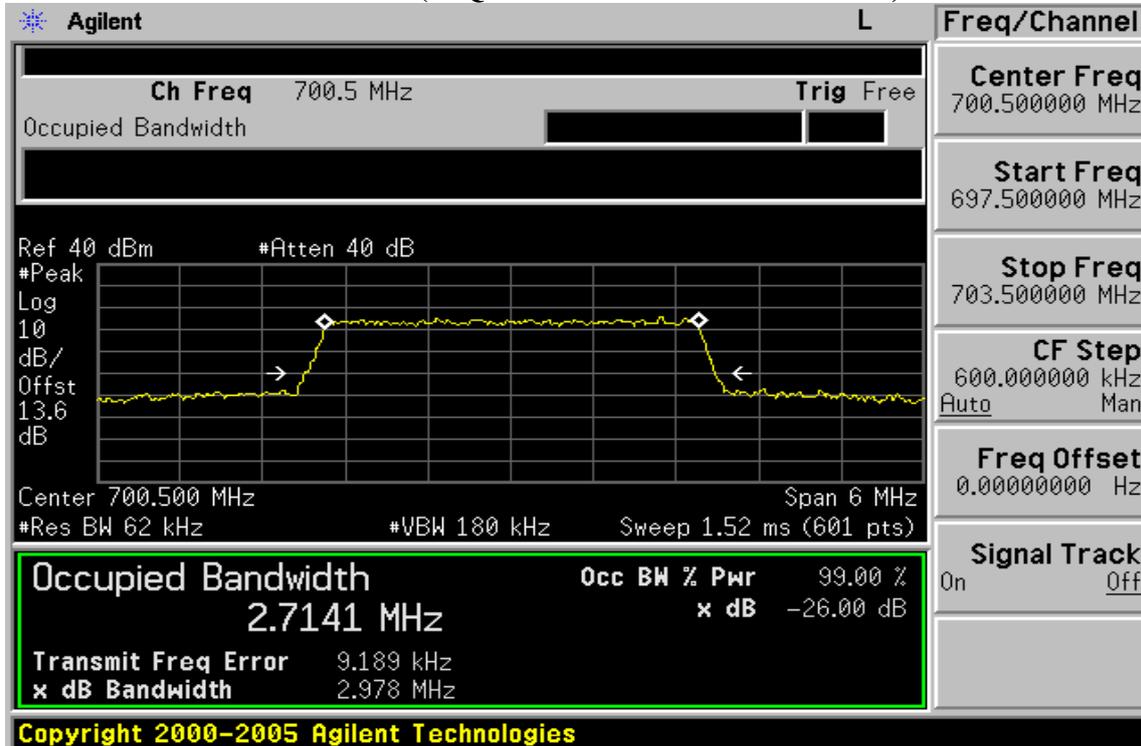
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3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 12(16QAM RB Number: 15 Offset: 0) Channel Low



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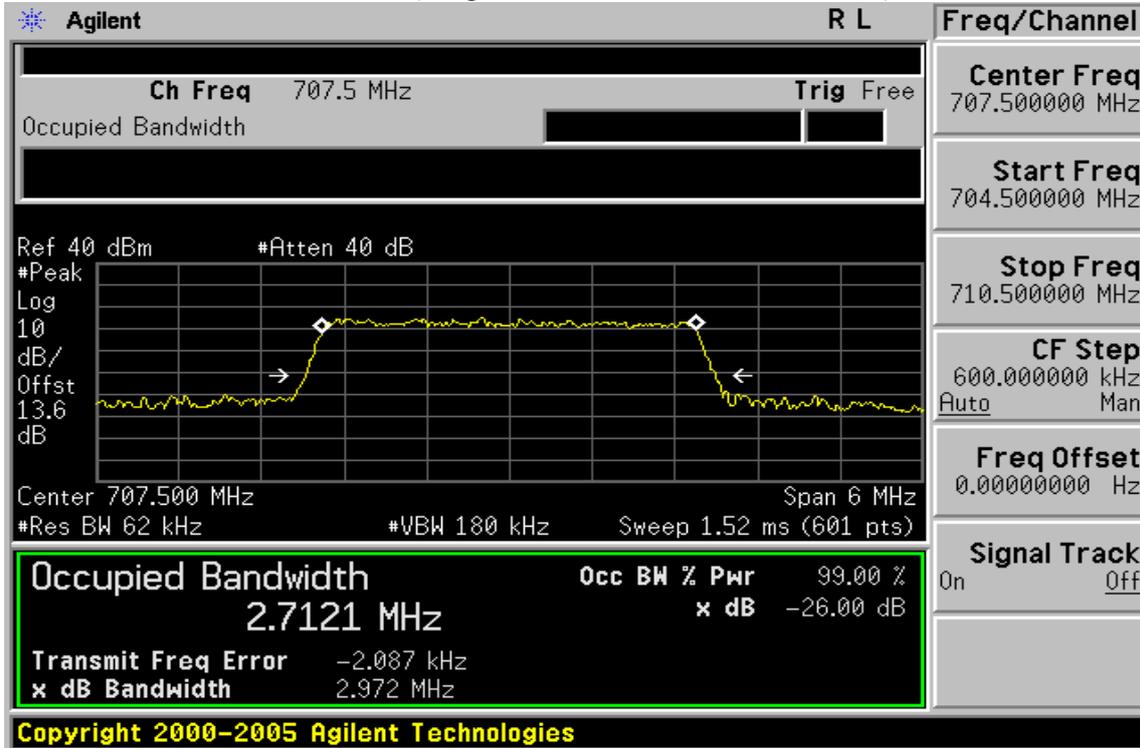
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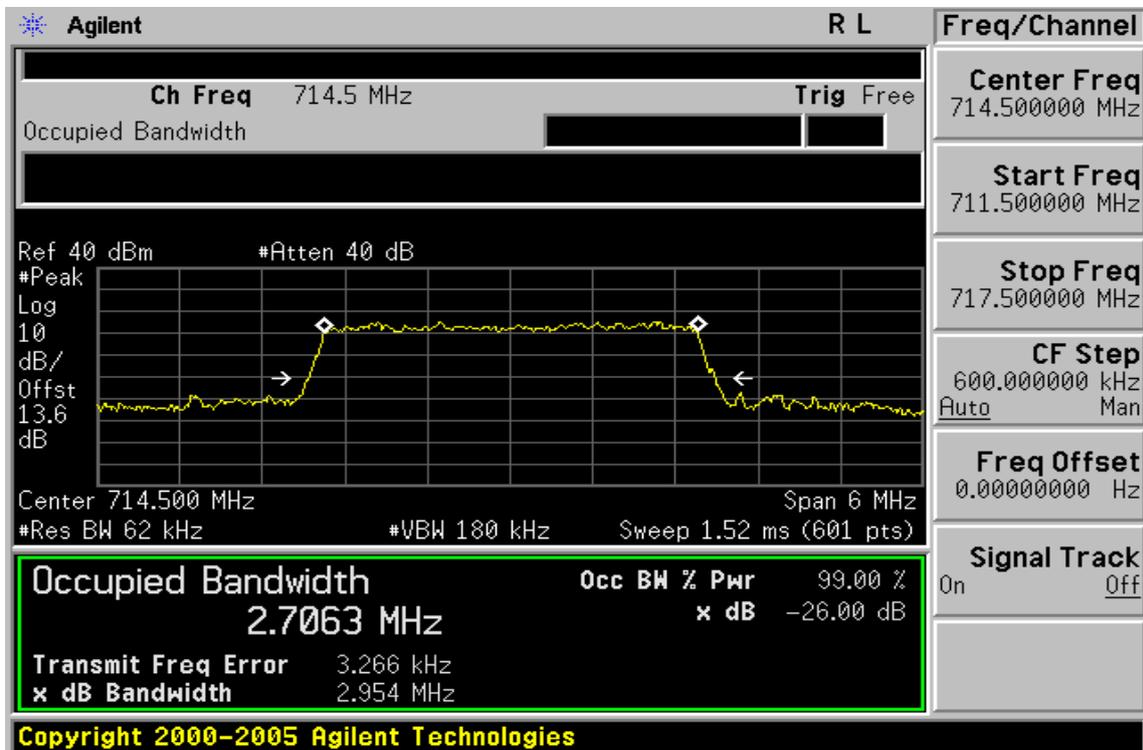
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3MHz BW LTE-Band 12(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 12(16QAM RB Number: 15 Offset: 0) Channel High



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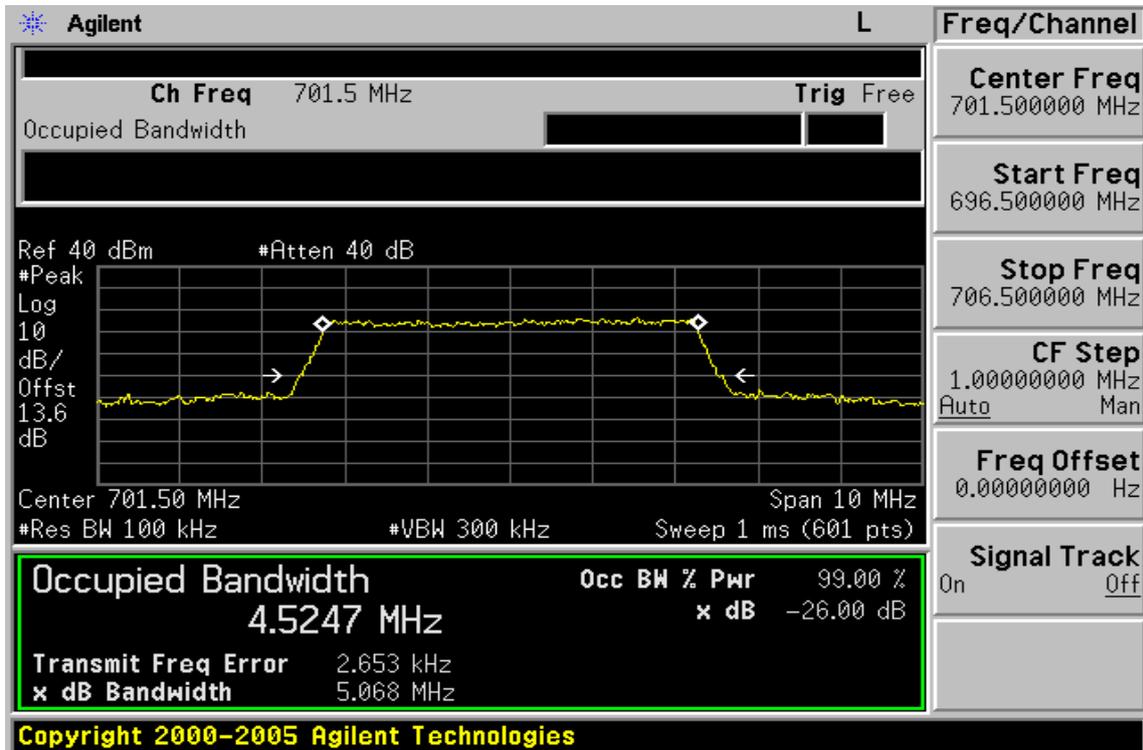
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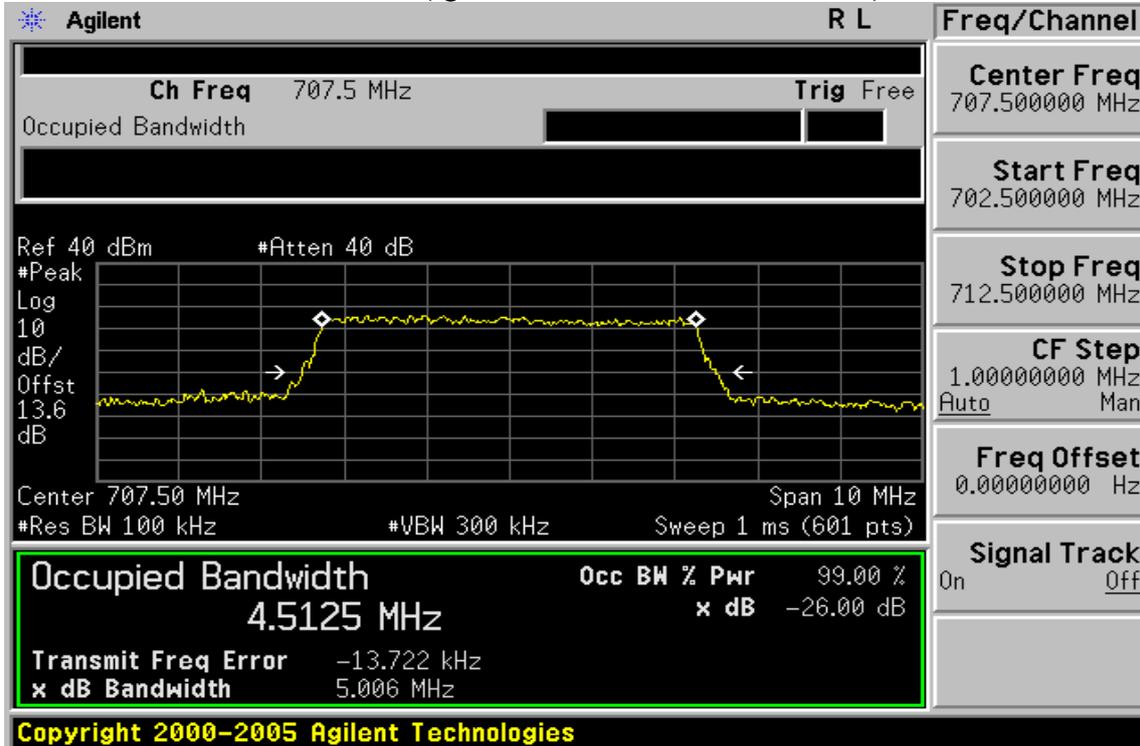
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5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel Mid



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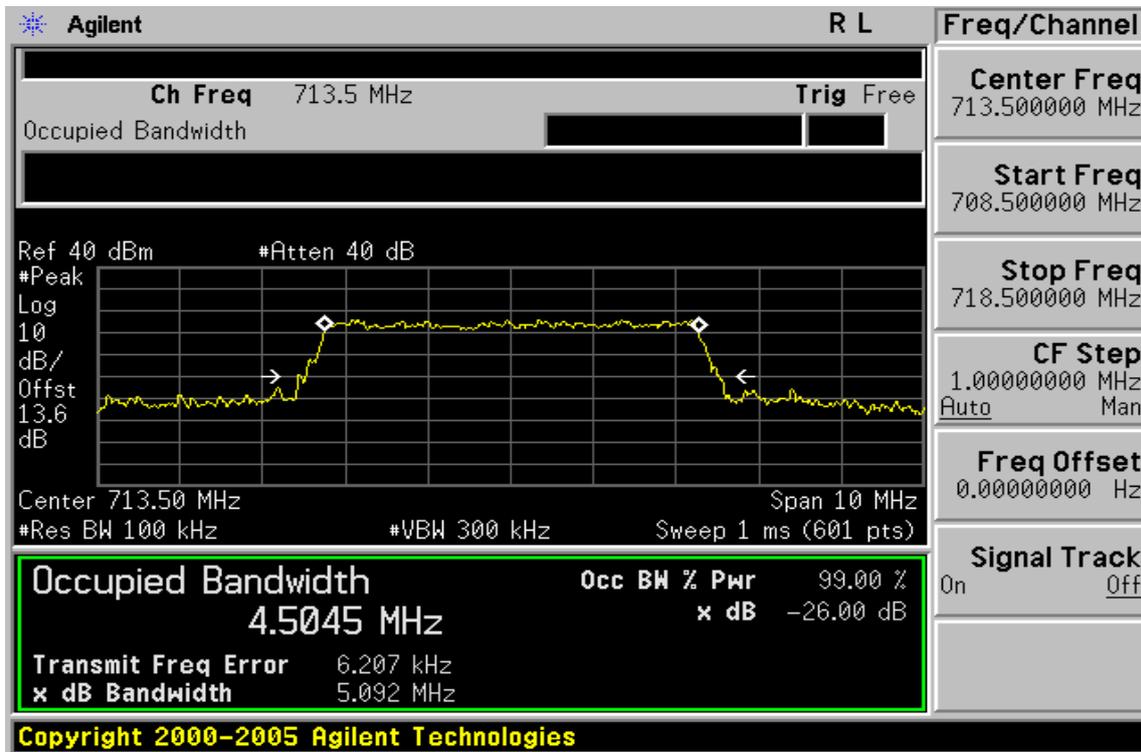
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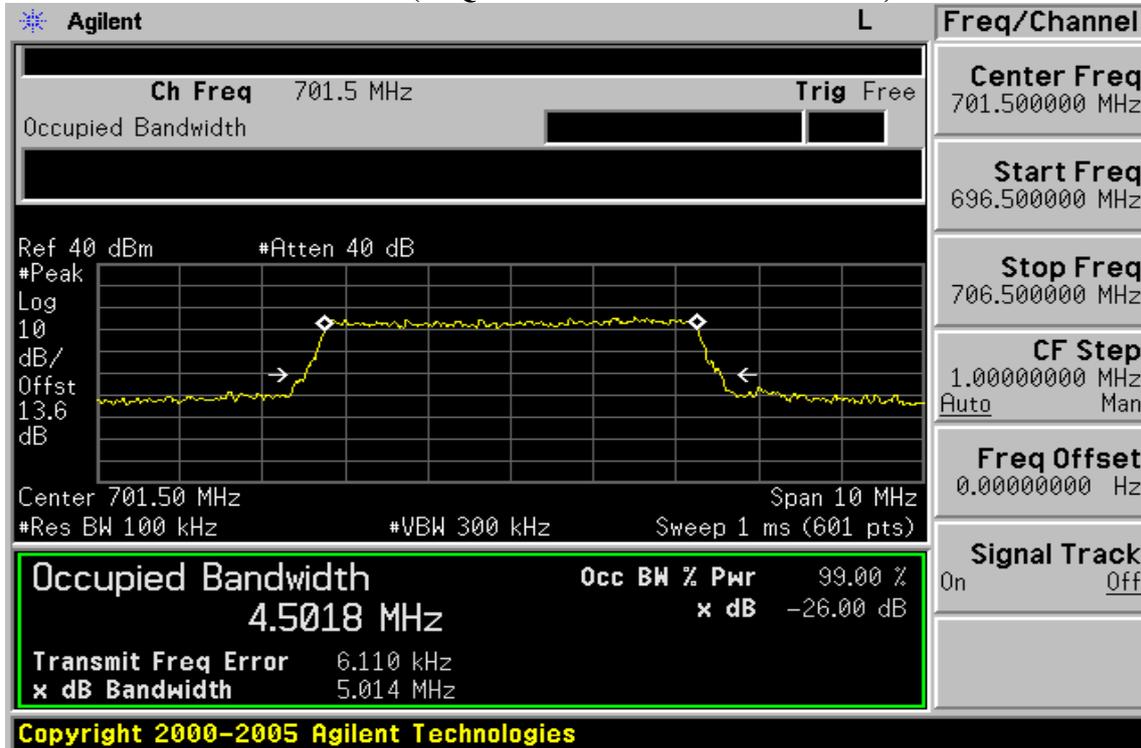
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5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 12(16QAM RB Number: 25 Offset: 0) Channel Low



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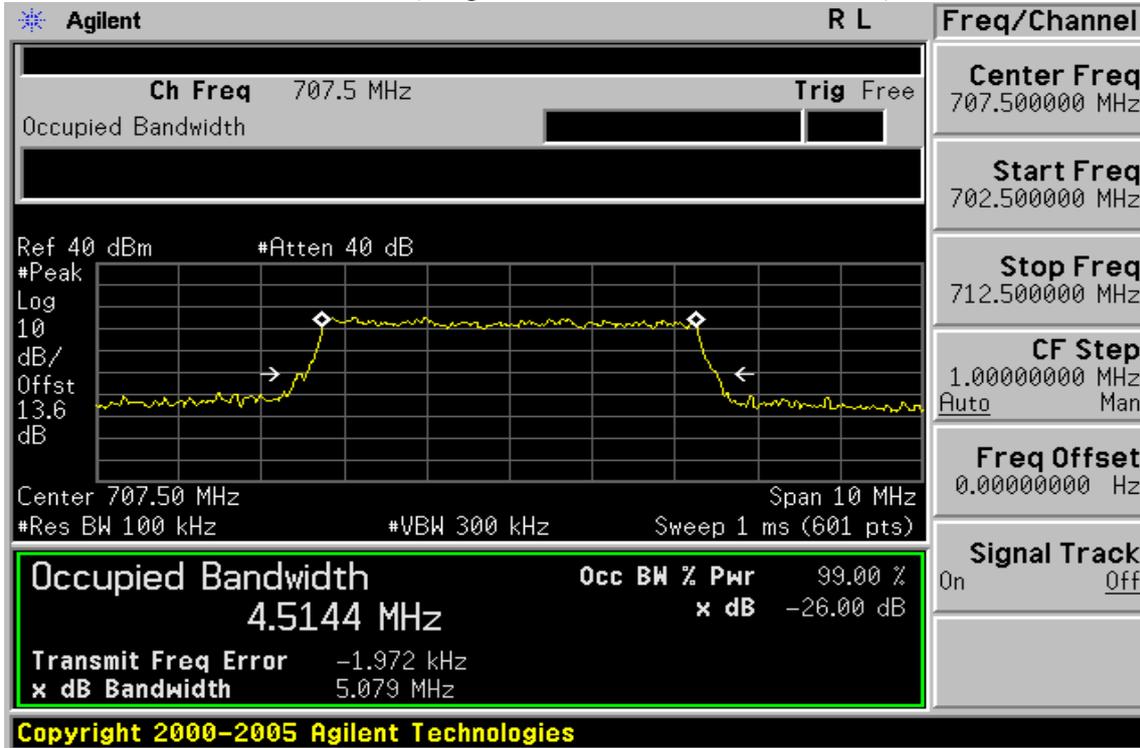
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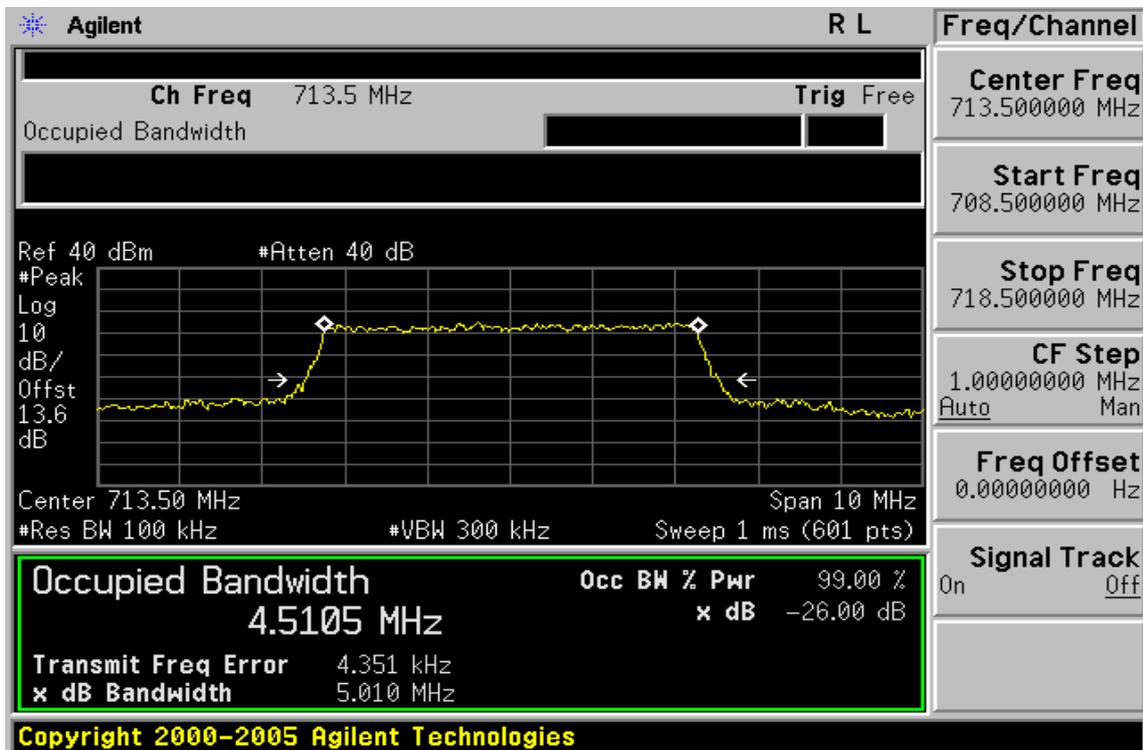
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5MHz BW LTE-Band 12(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 12(16QAM RB Number: 25 Offset: 0) Channel High



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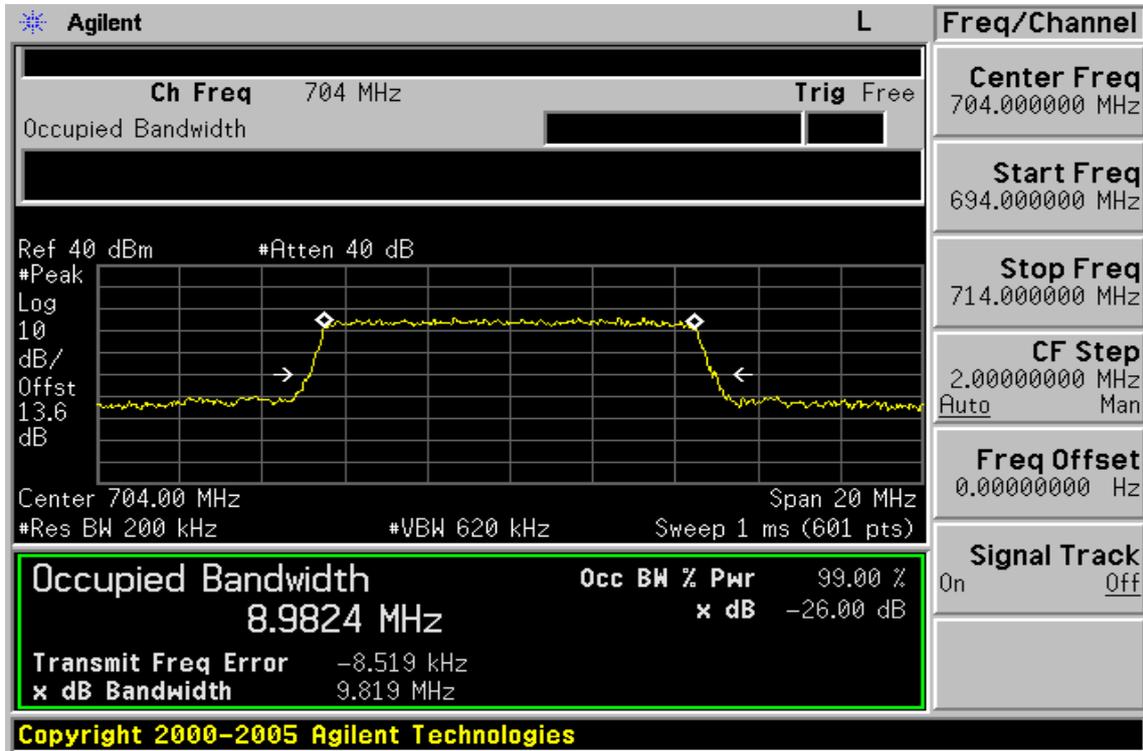
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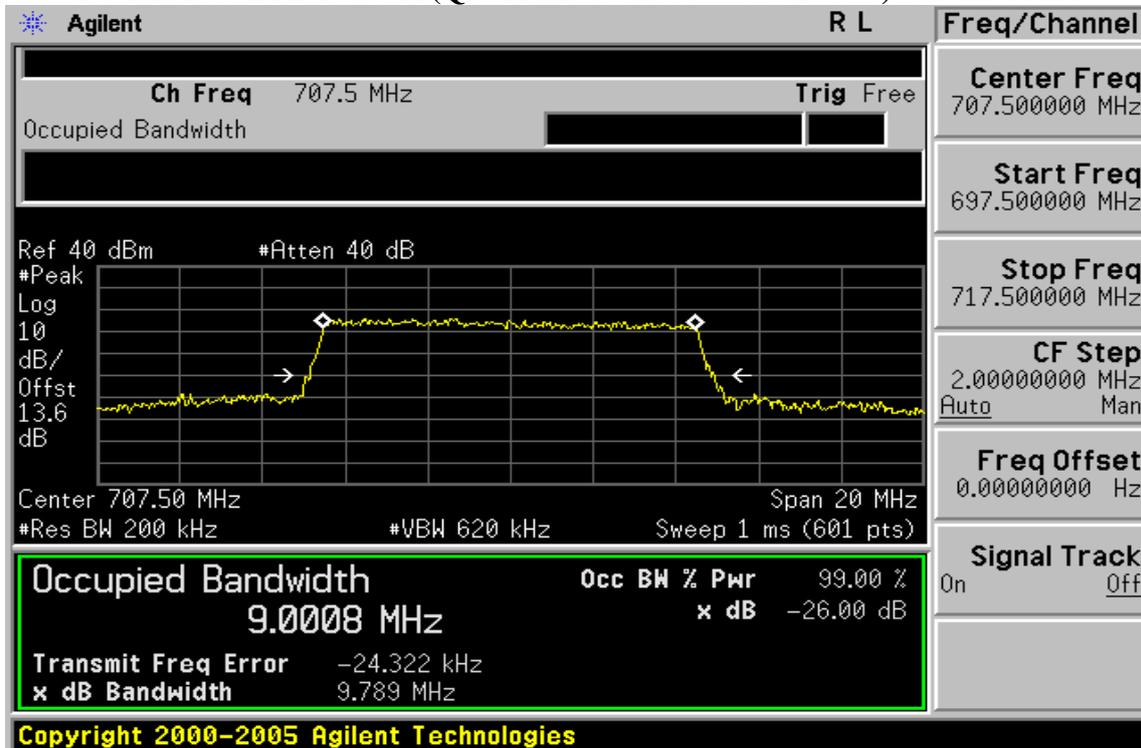
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10MHz BW LTE-Band 12(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 12(QPSK RB Number: 50 Offset: 0) Channel Mid



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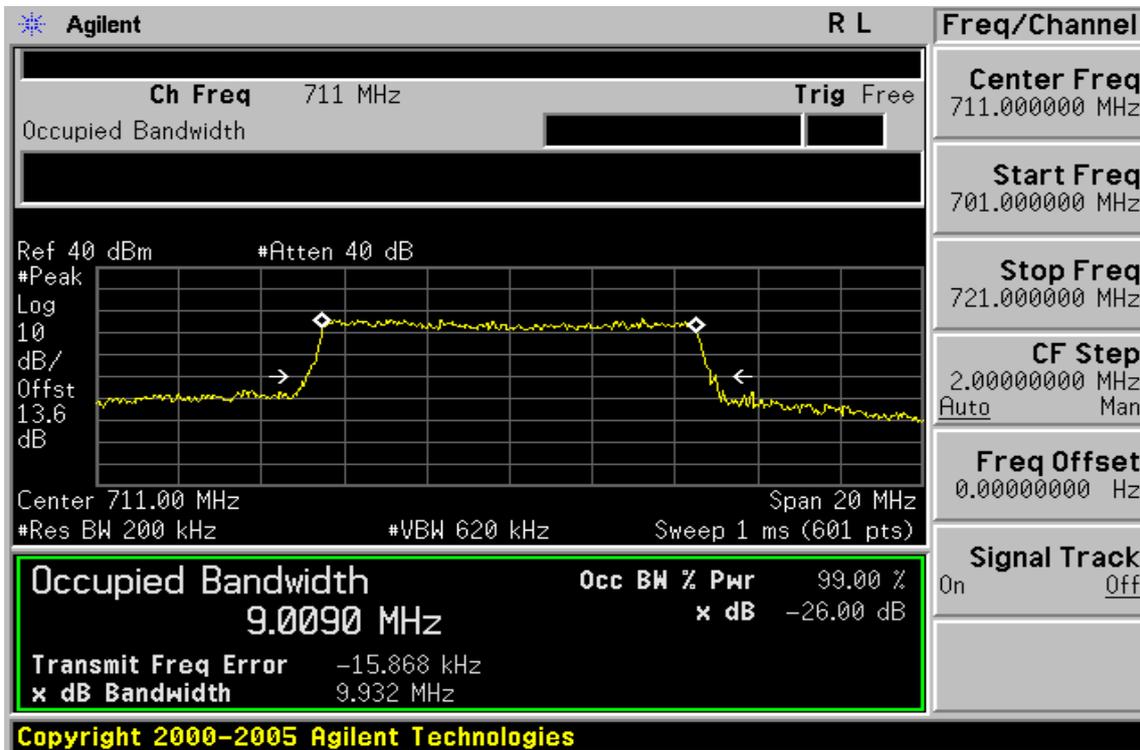
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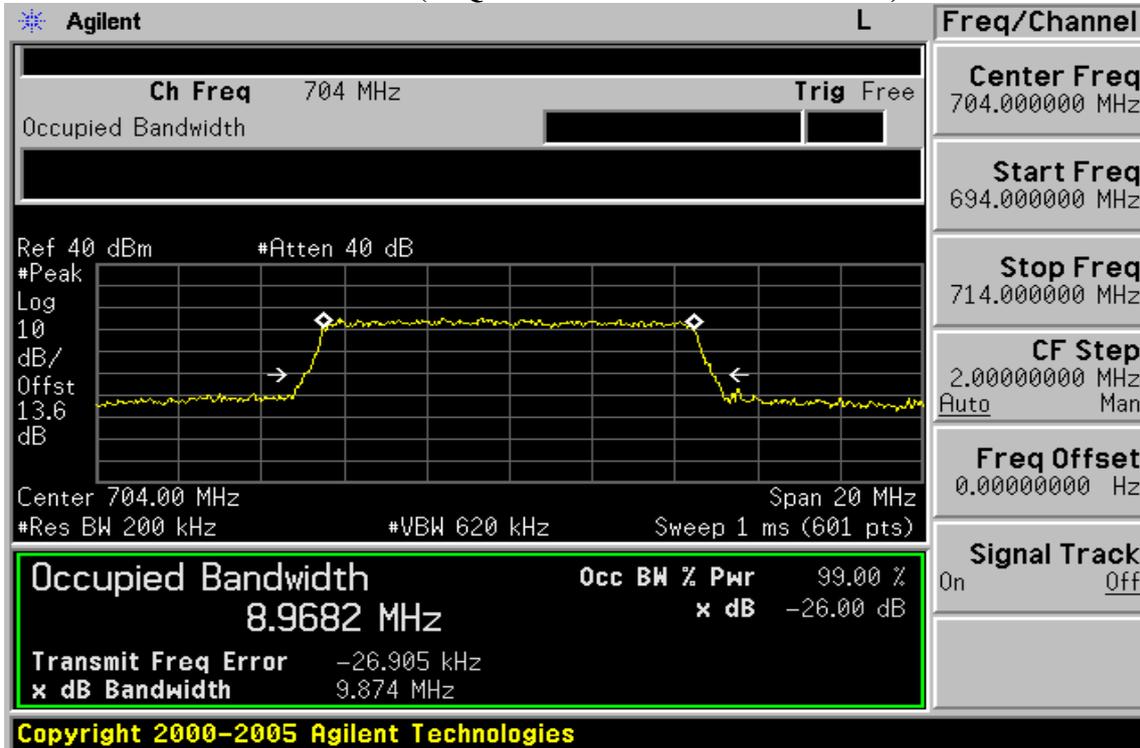
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10MHz BW LTE-Band 12 (QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 12(16QAM RB Number: 50 Offset: 0) Channel Low



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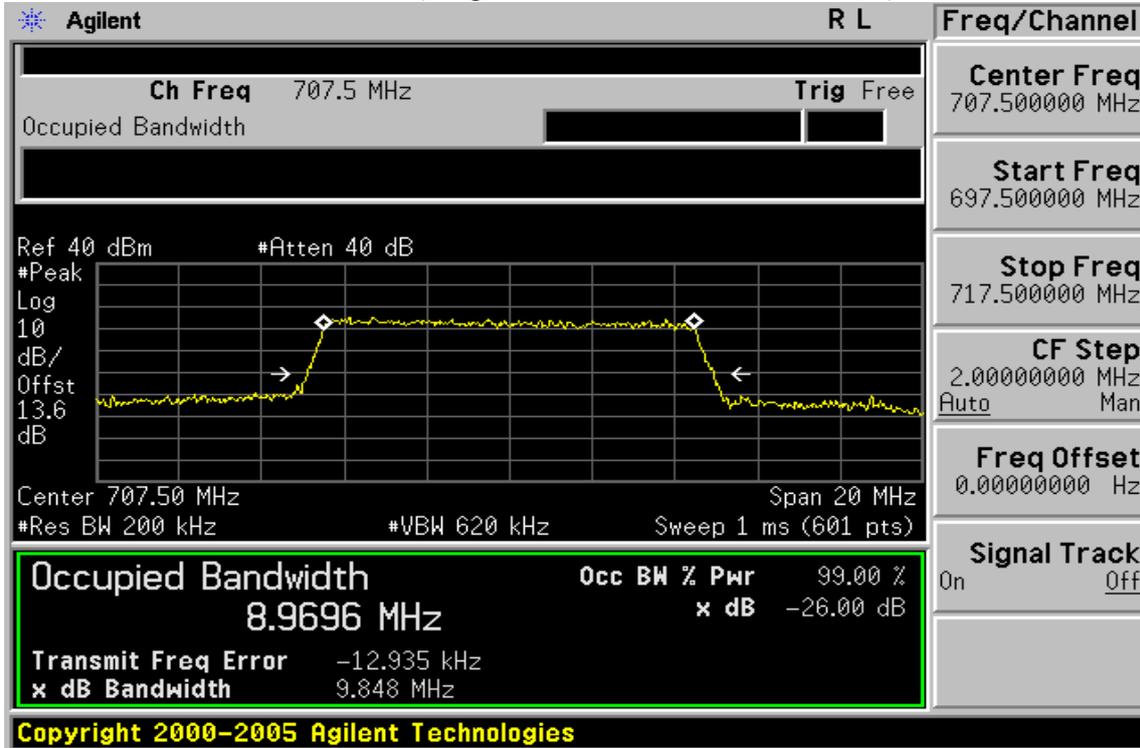
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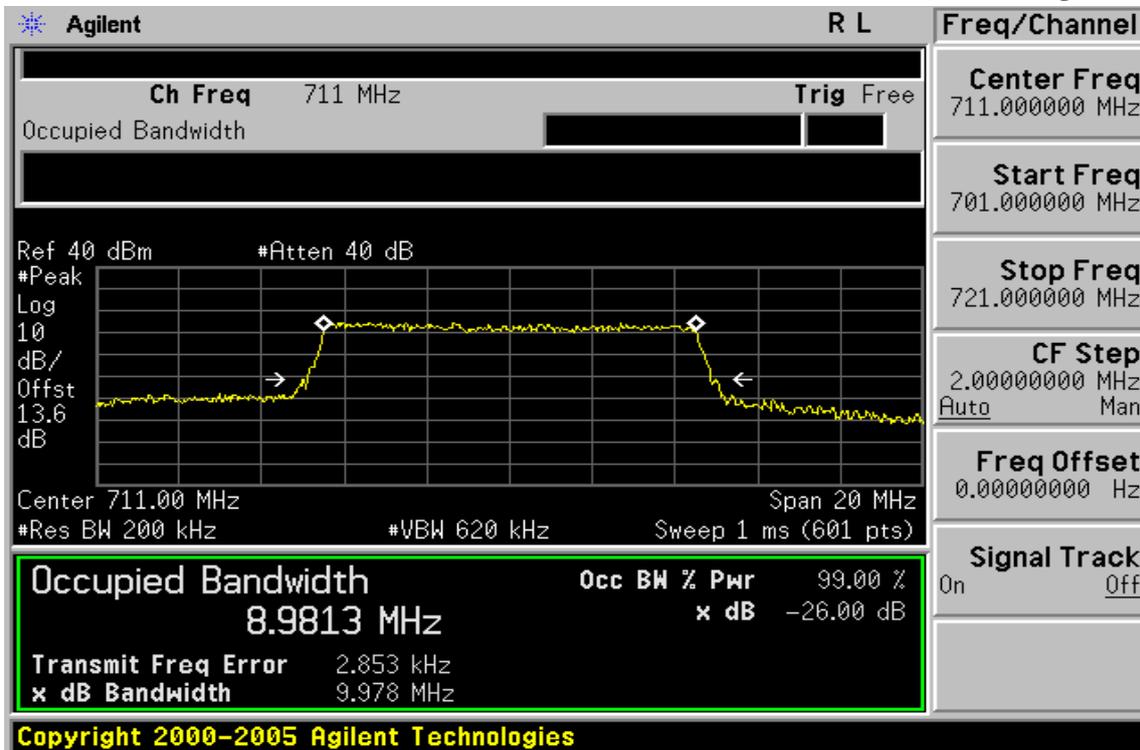
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10MHz BW LTE-Band12(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 12(16QAM RB Number: 50 Offset: 0) Channel High



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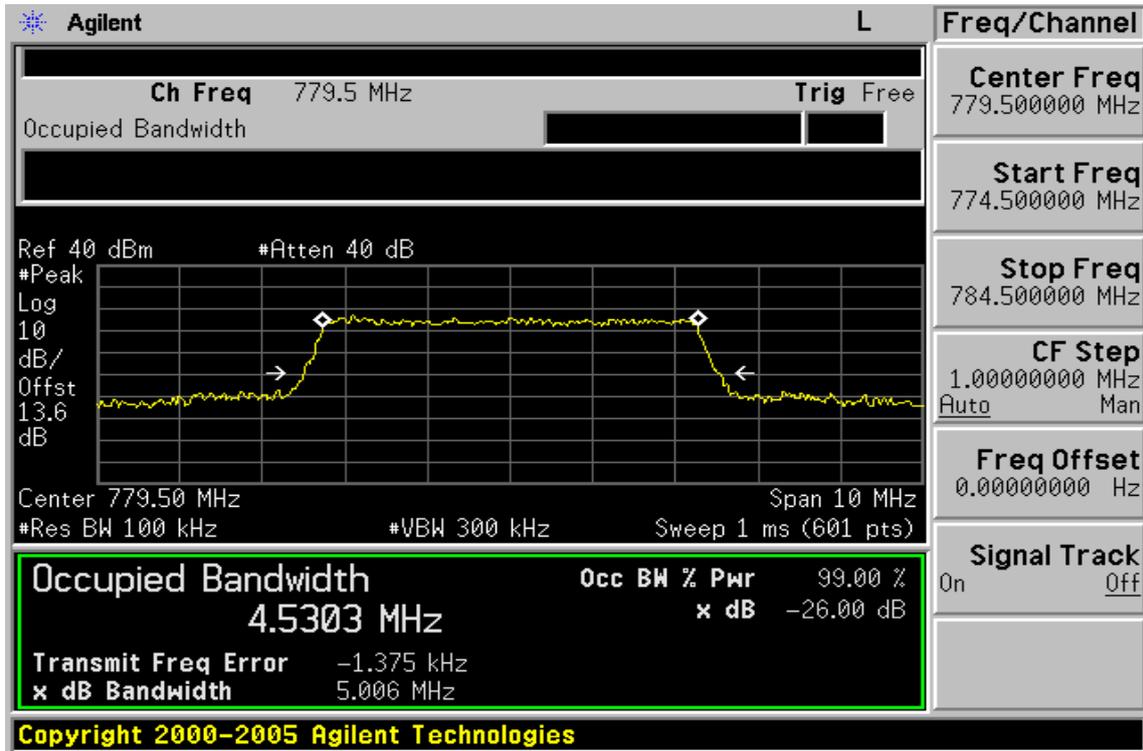
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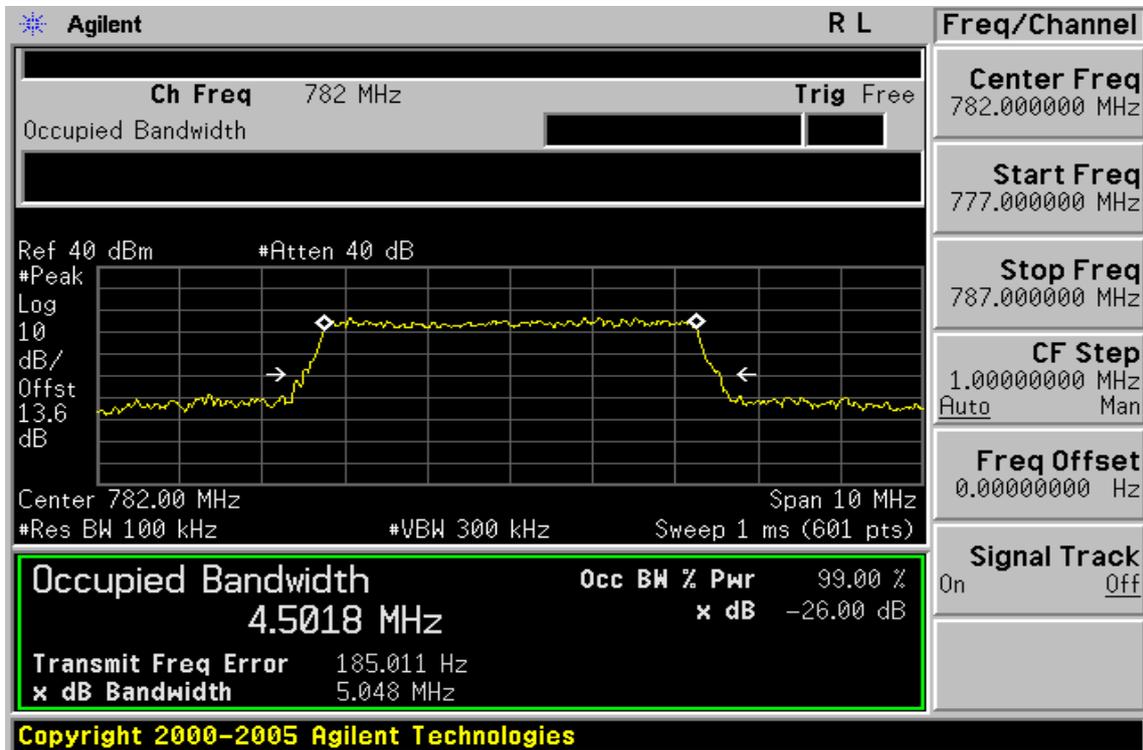
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5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel Mid



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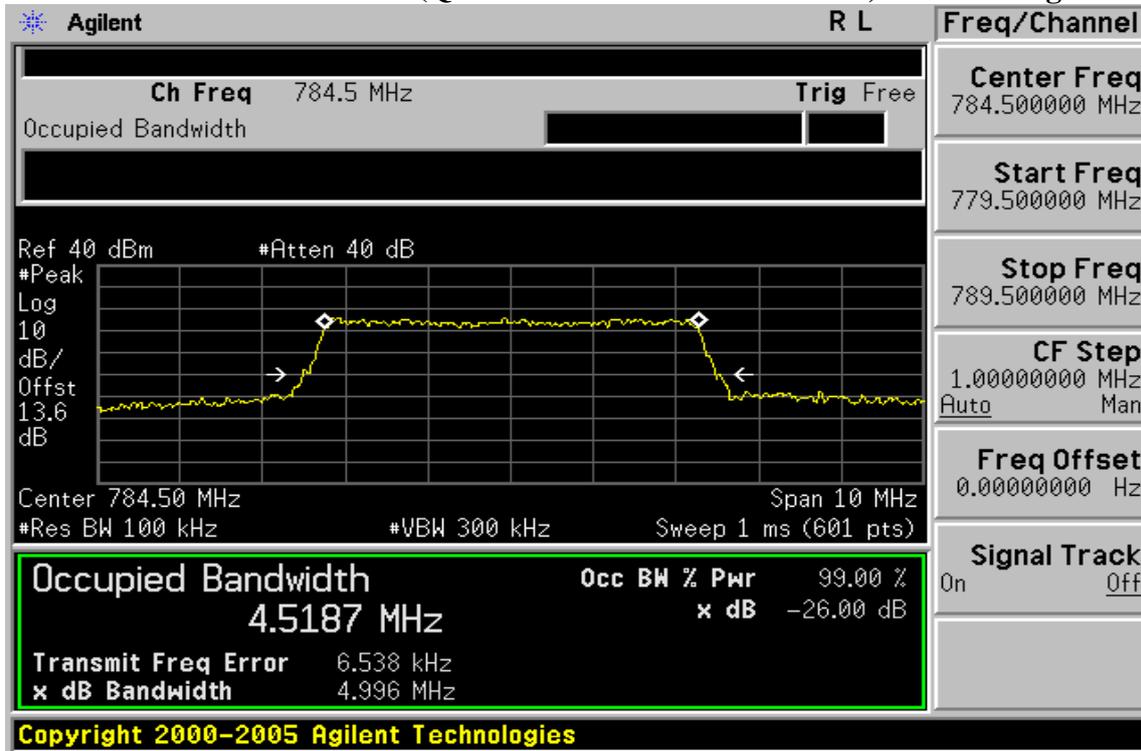
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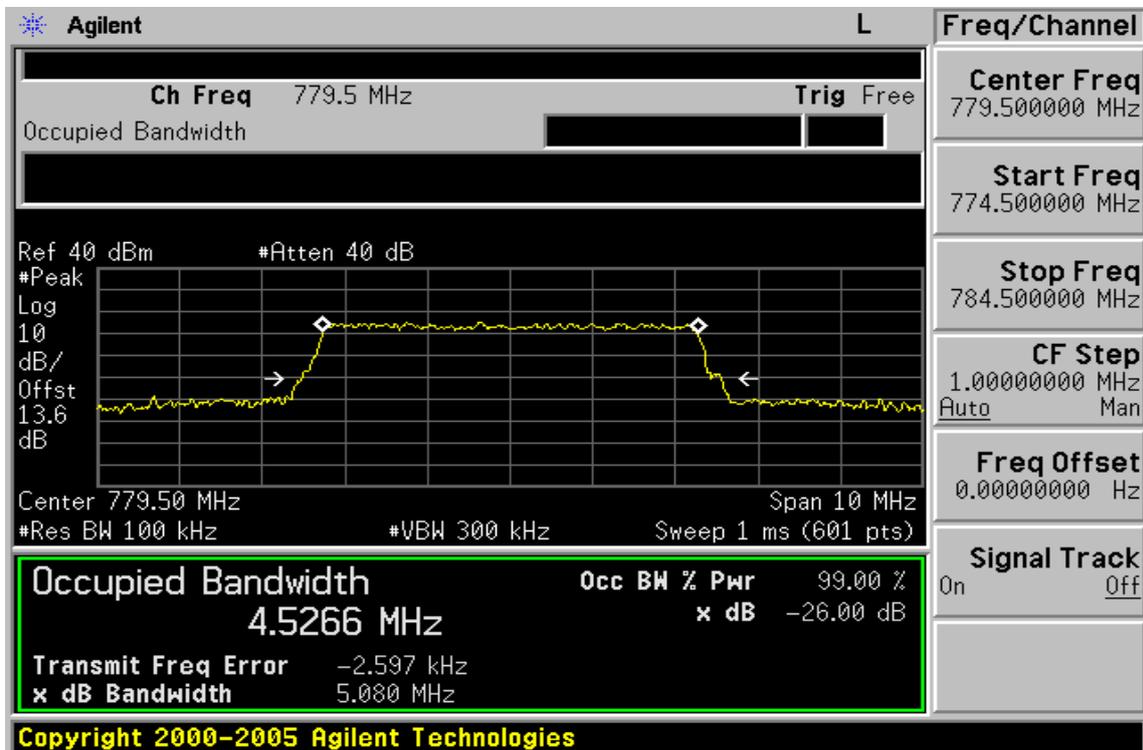
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5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 13(16QAM RB Number: 25 Offset: 0) Channel Low

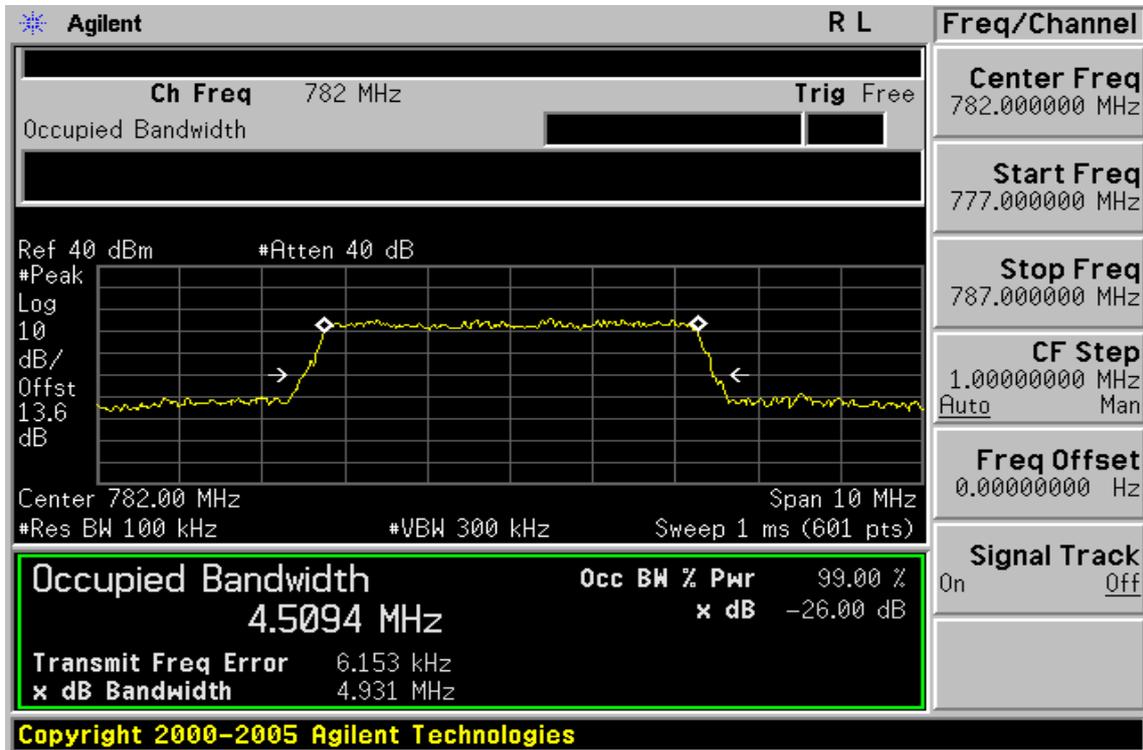


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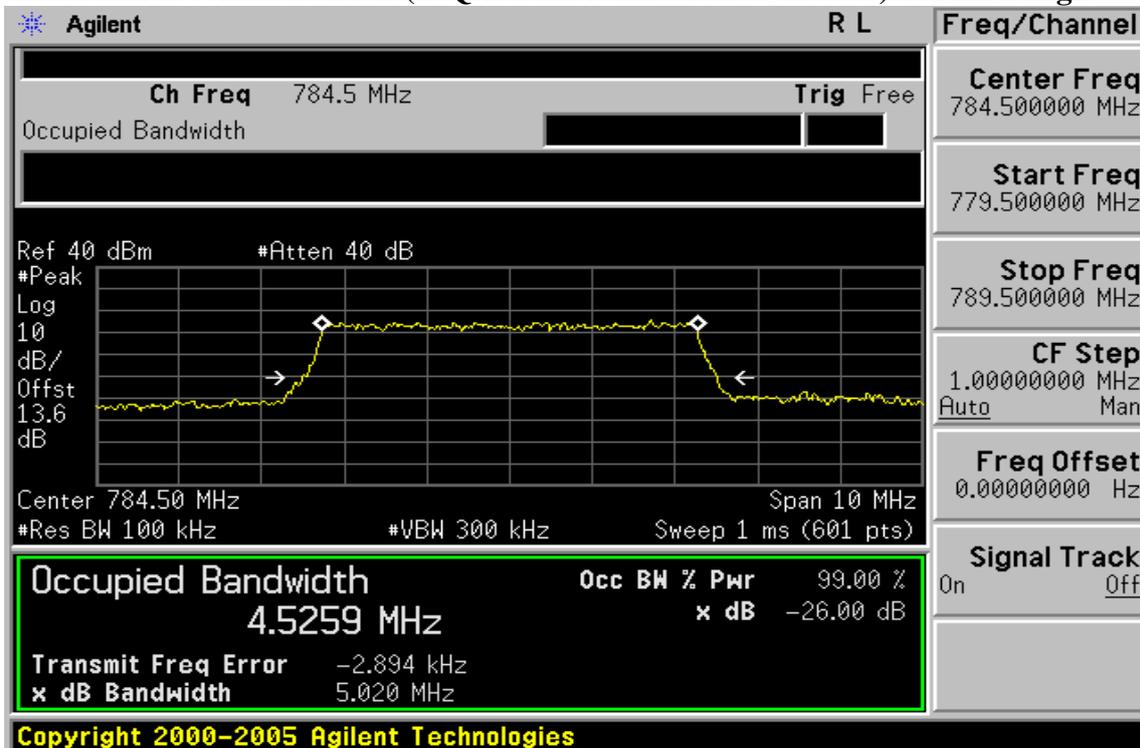
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5MHz BW LTE-Band 13(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 13(16QAM RB Number: 25 Offset: 0) Channel High



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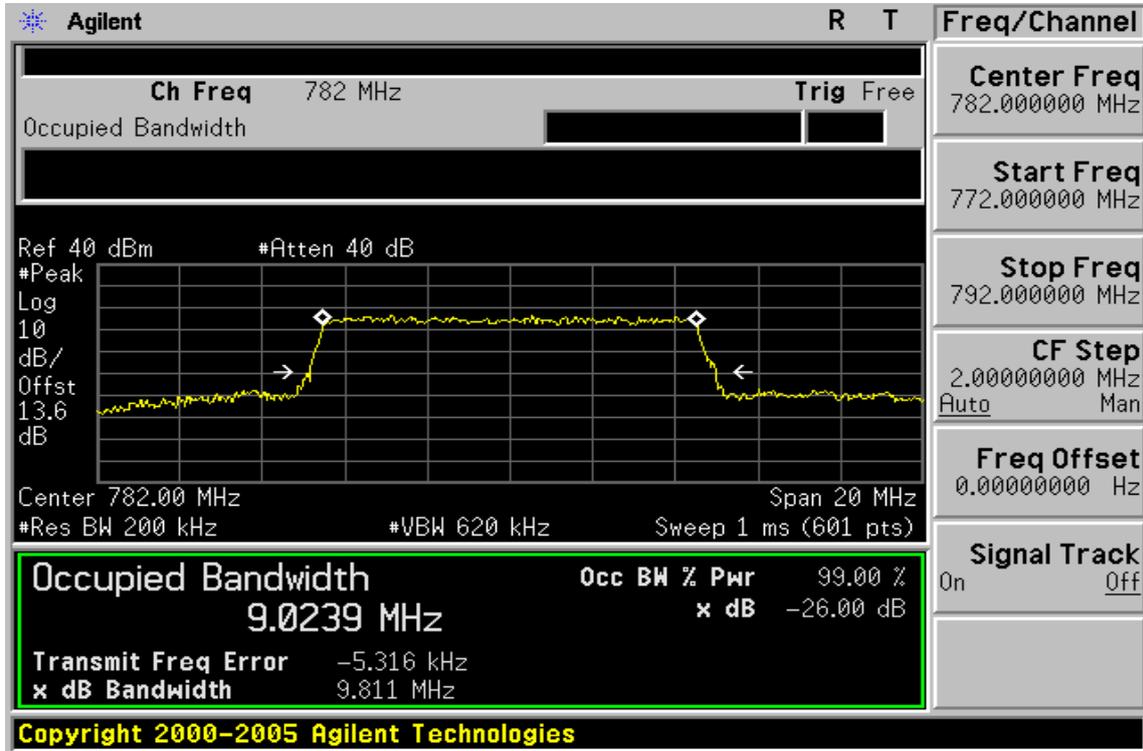
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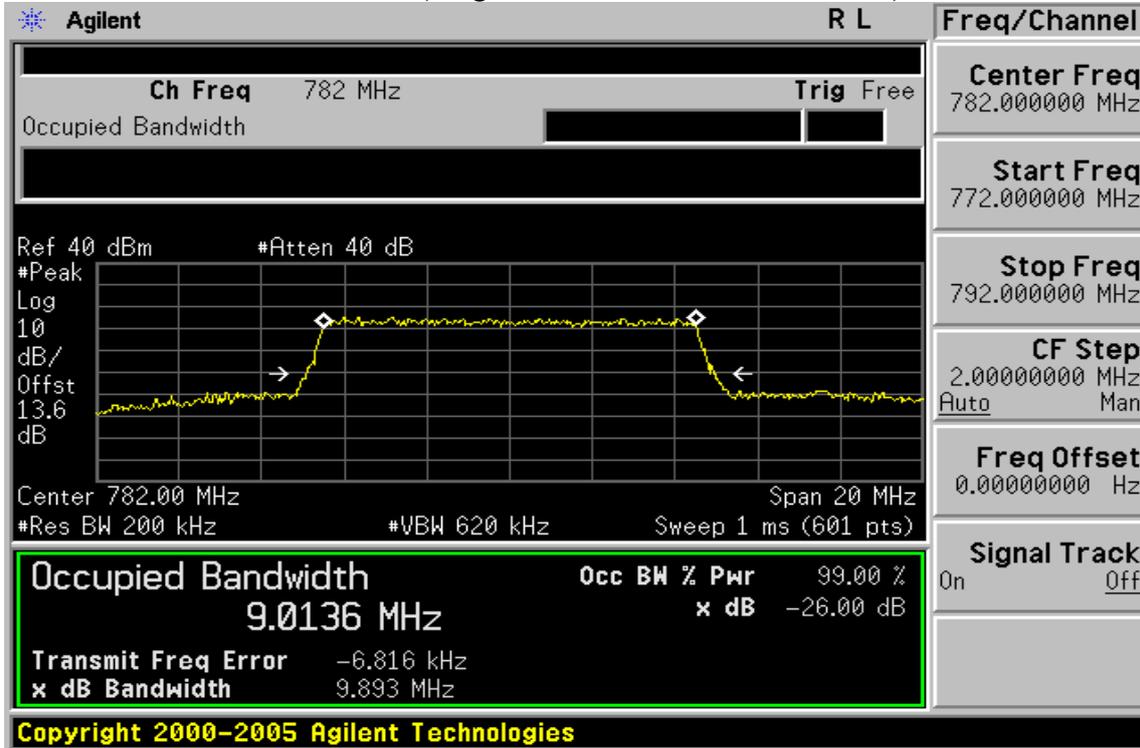
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10MHz BW LTE-Band 13(QPSK RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 13(16QAM RB Number: 50 Offset: 0) Channel Mid



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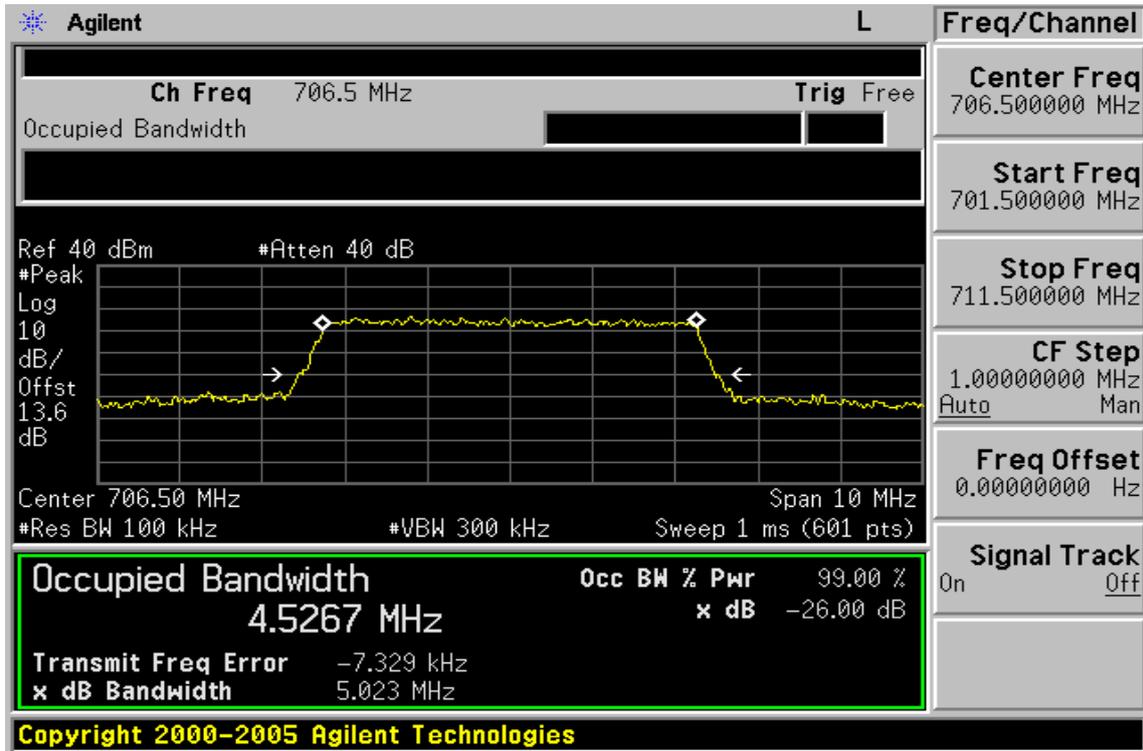
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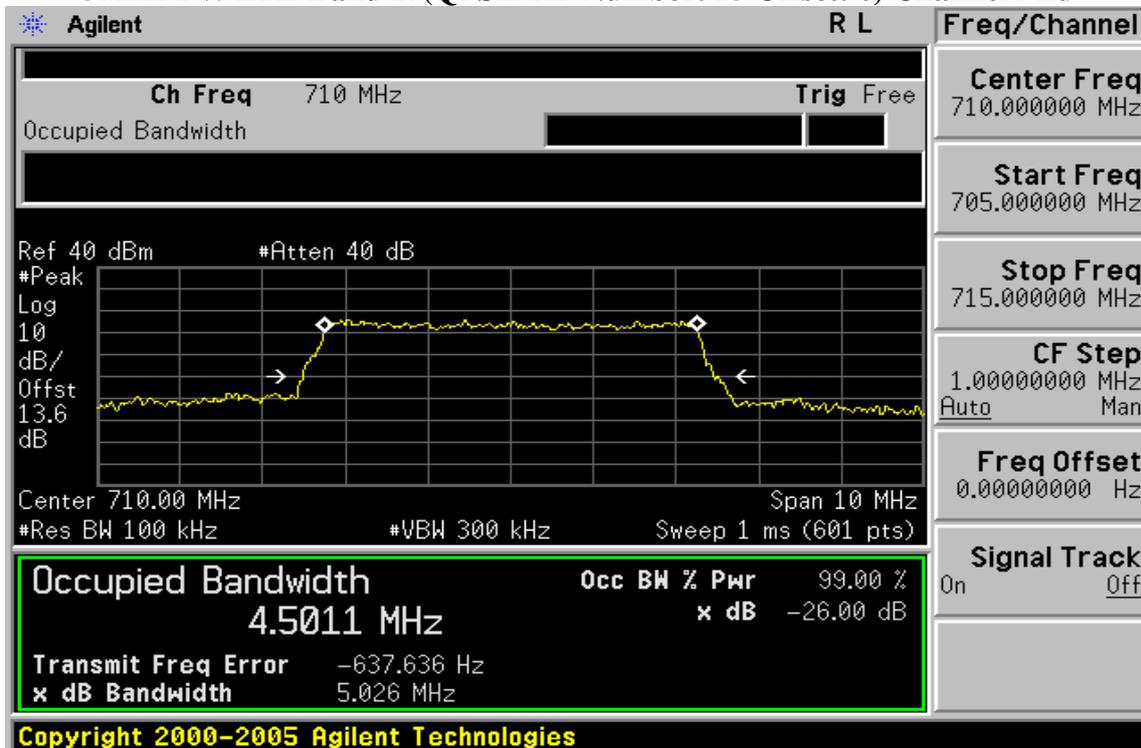
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5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel Mid



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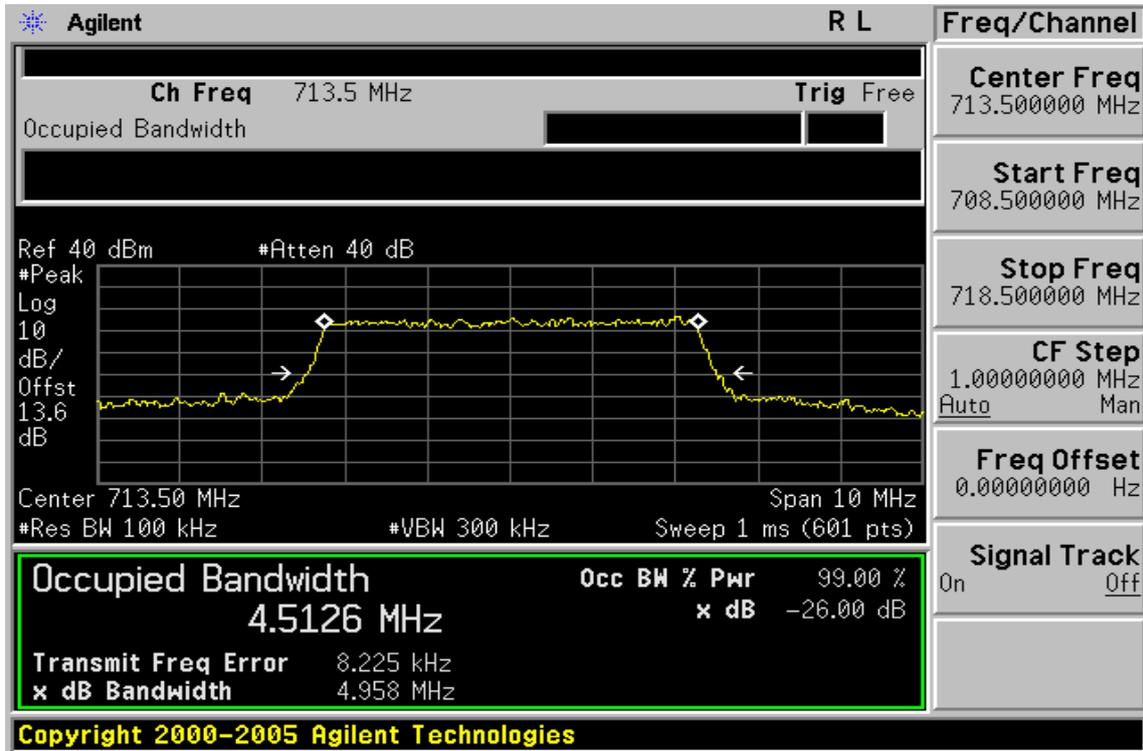
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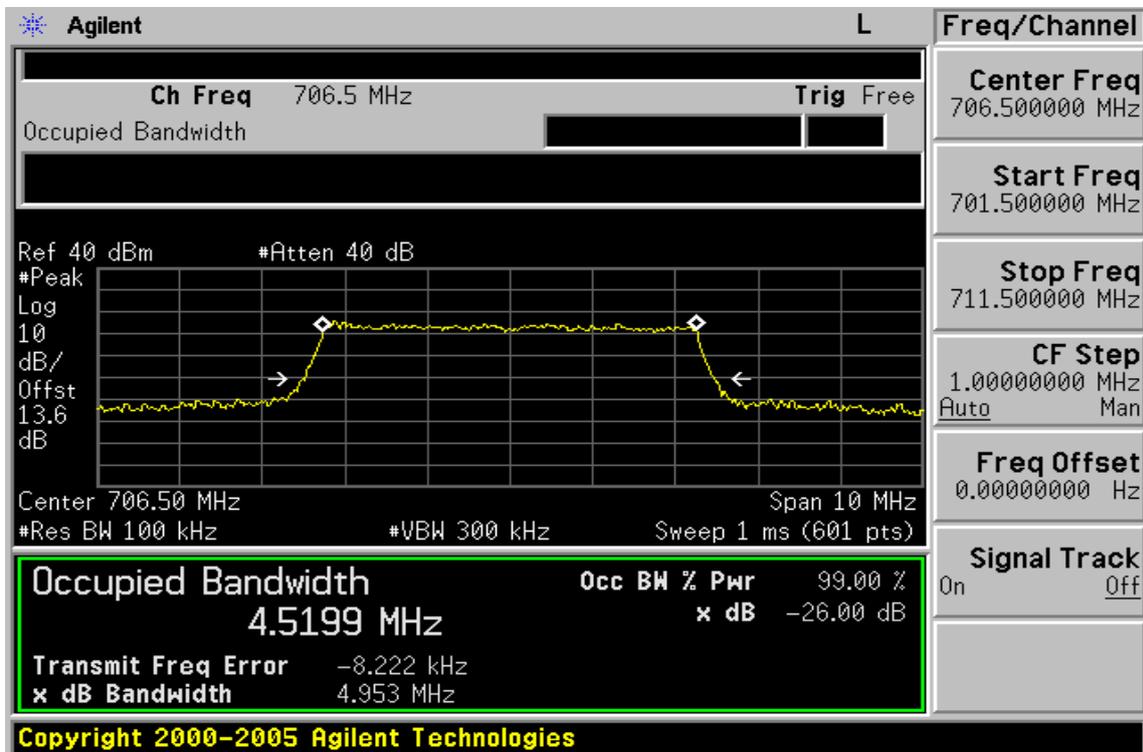
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5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 17 (16QAM RB Number: 25 Offset: 0) Channel Low



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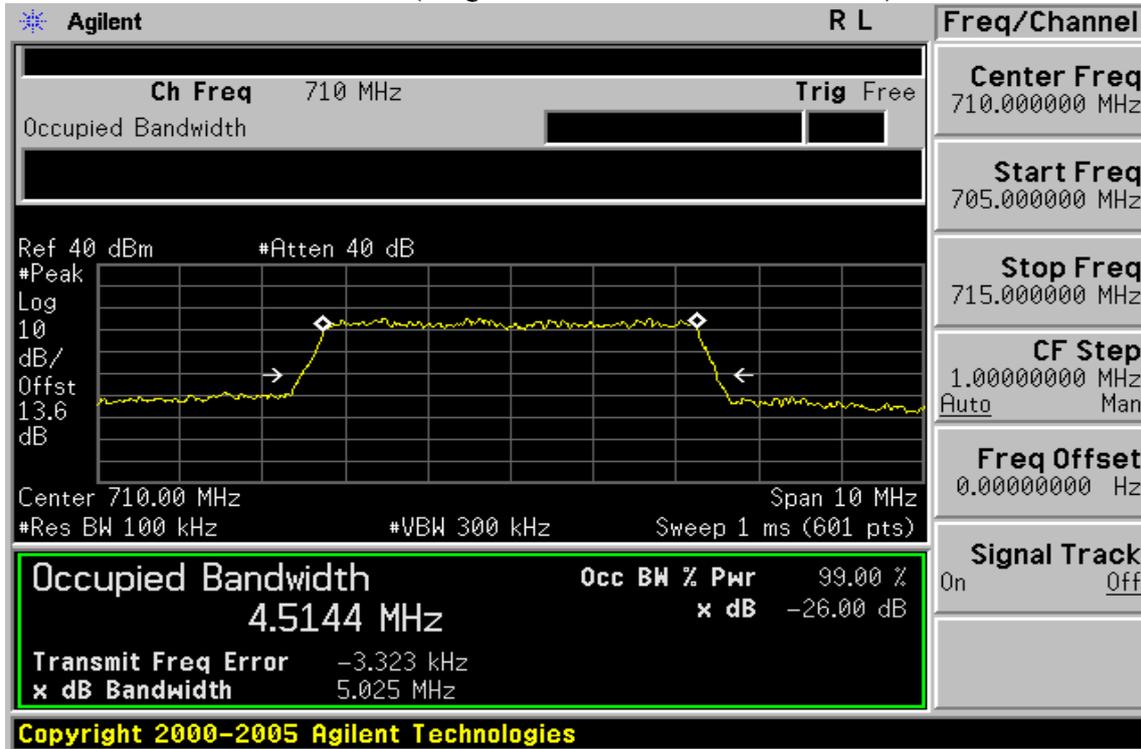
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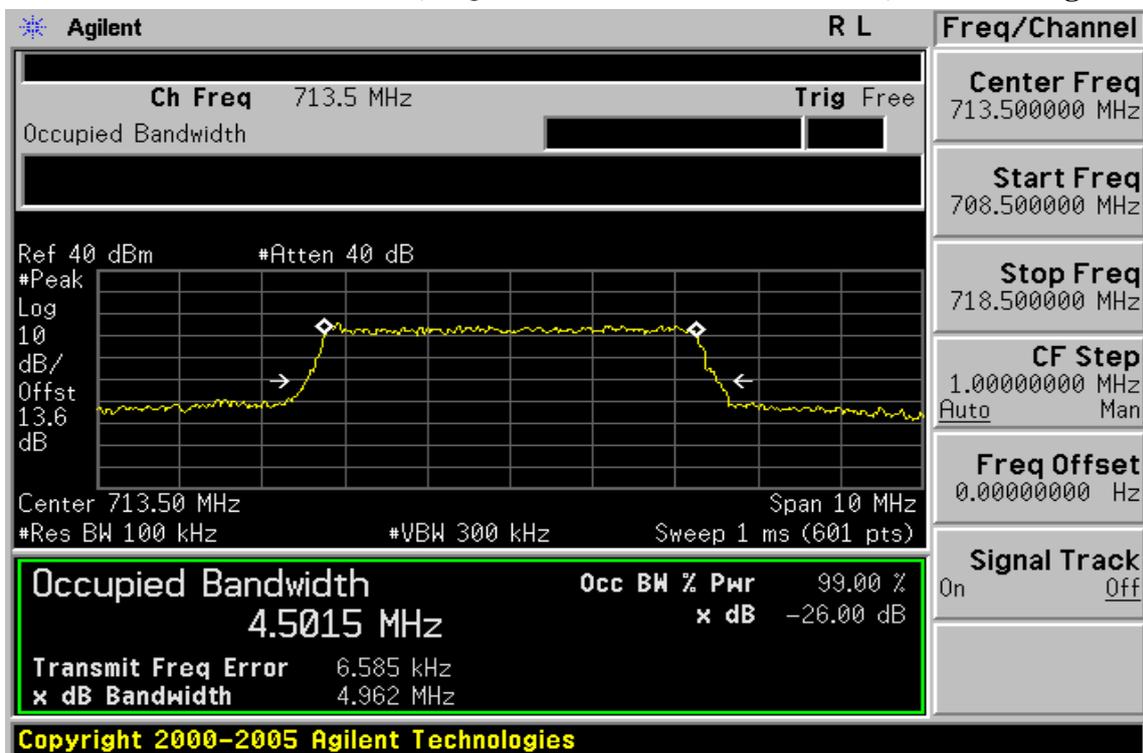
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5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel High



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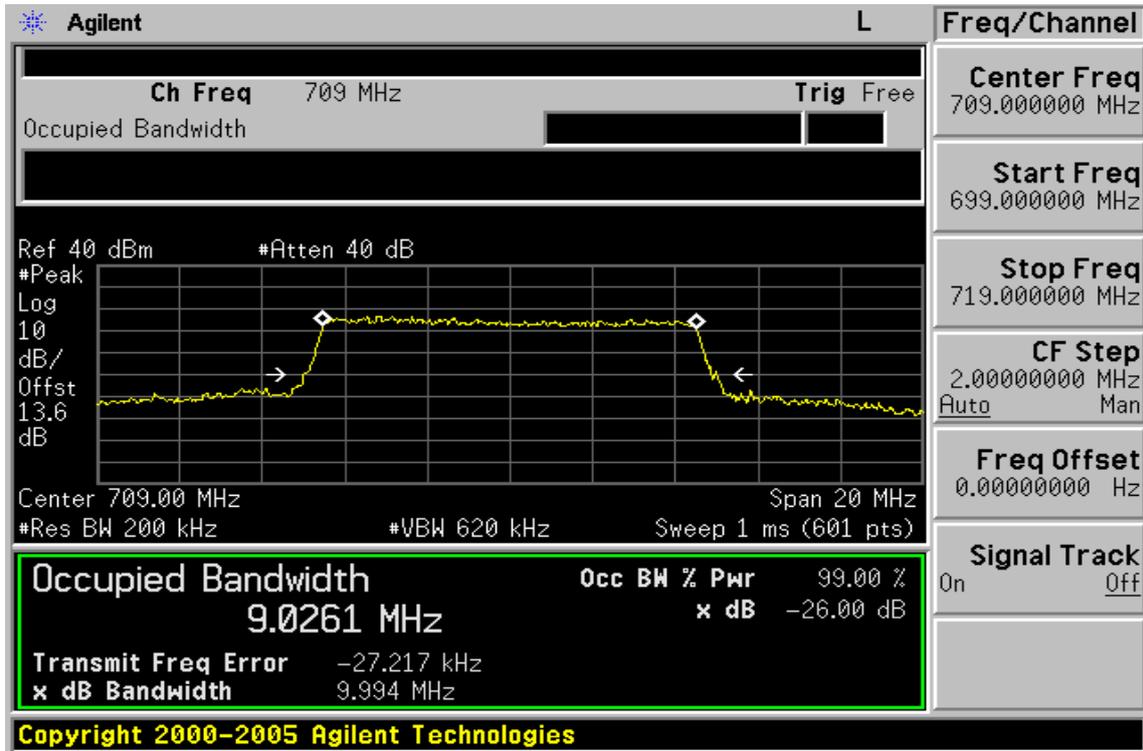
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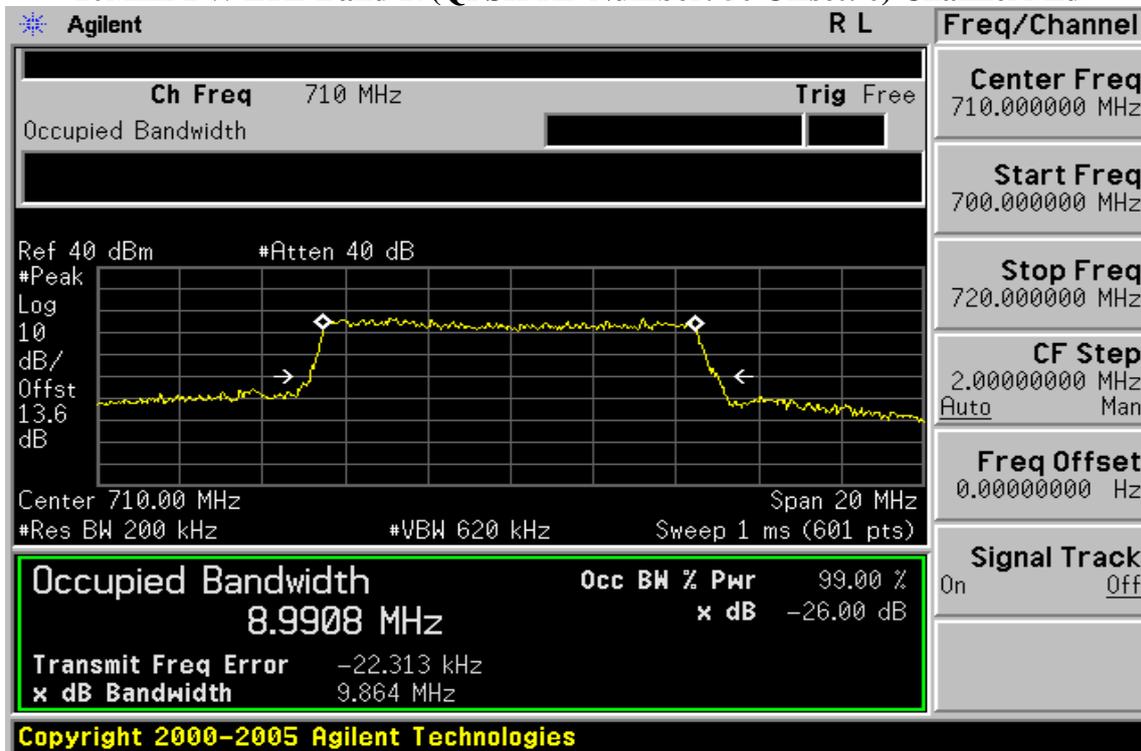
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10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel Mid



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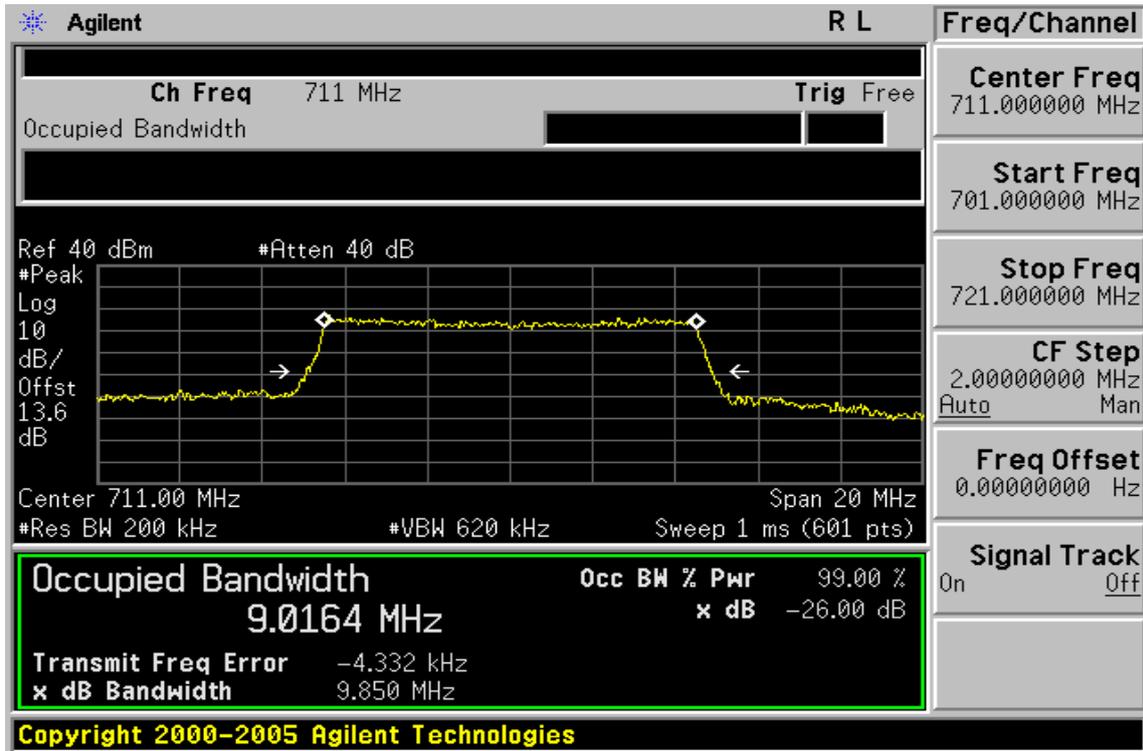
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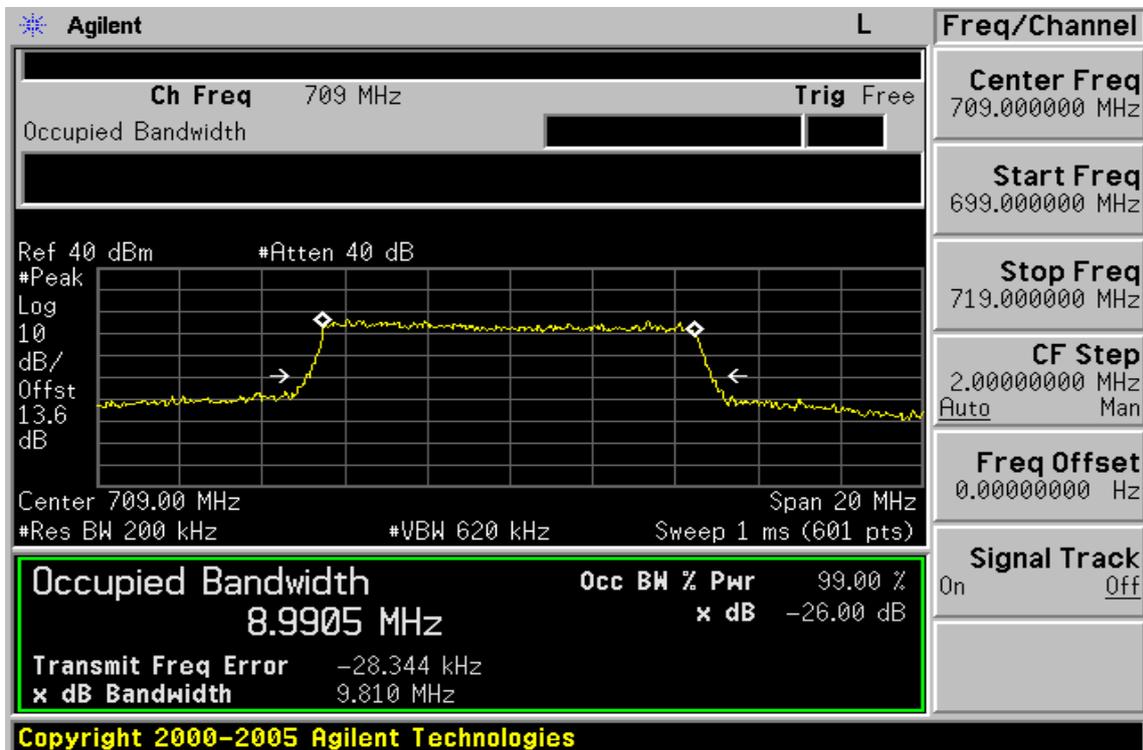
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10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 17 (16QAM RB Number: 50 Offset: 0) Channel Low



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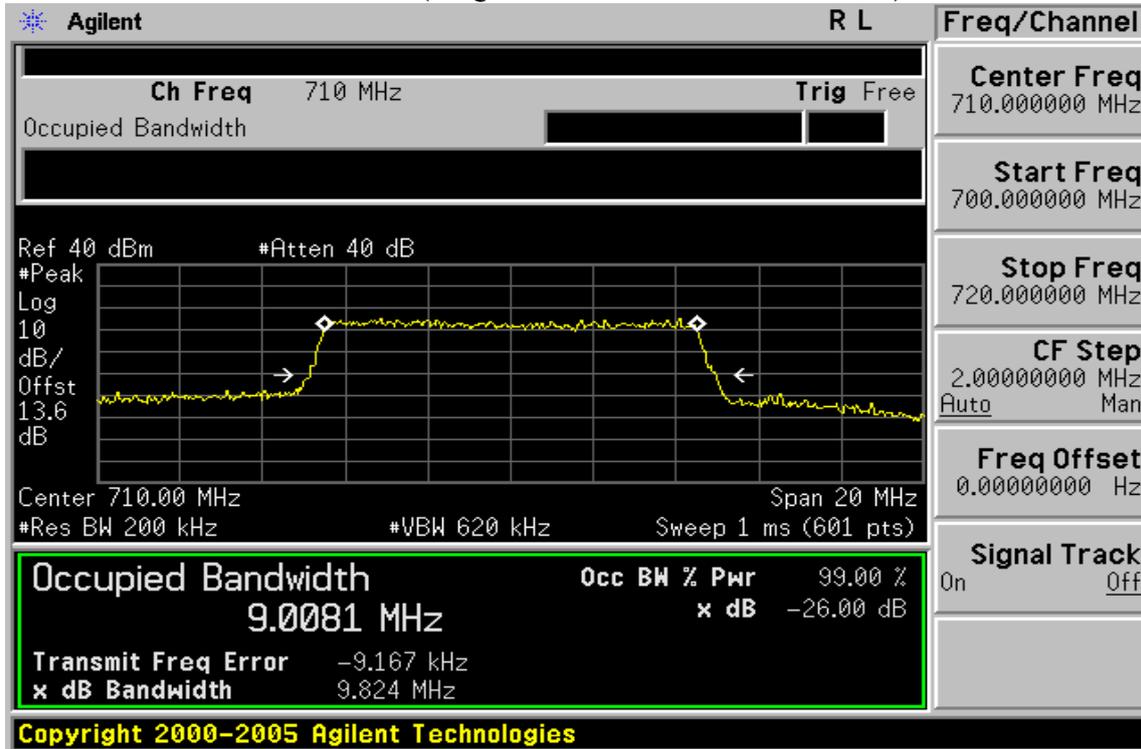
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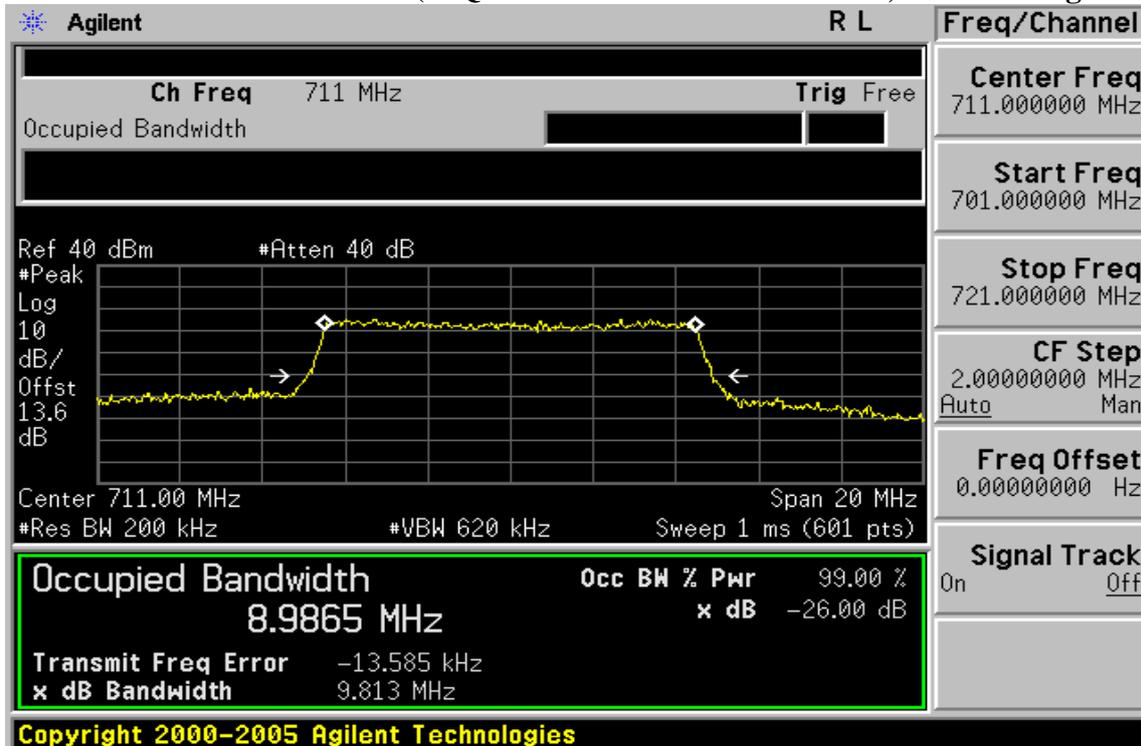
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10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel High



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