



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART
C & SUBPART L INDUSTRY CANADA RSS-130, RSS-132, RSS-133
and RSS-139, RSS-199 REQUIREMENT

OF

Product Name: Smart phone
Brand Name: BLU
Model No.: Studio Selfie LTE
Model Difference: N/A
FCC ID: YHLBLUSTSEELTE
IC ID: 11492A-STSEELTE
Report No.: ER/2015/70109
Issue Date: Sep. 17, 2015
FCC Rule Part: 2, 22H & 24E & 27C & L
IC Rule Part RSS 130 Issue 1 Oct. 2013, RSS 132 Issue 3 Jan. 2013,
RSS 133 Issue 6 Jan. 2013 and RSS 139 Issue 2 Feb.
2009 and RSS 199 Issue 2 Oct. 2014
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VERIFICATION OF COMPLIANCE

Applicant (FCC): CT ASIA (HK) Ltd
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Applicant (IC): CT ASIA (HK) Ltd
Unit 1309-11, 13/F, 9 Wing Hong Street, Cheung Sha Wan, Kow-
loon, Hong Kong

Product Name: Smart phone

Brand Name: BLU

Model No.: Studio Selfie LTE

Model Difference: N/A

FCC ID: YHLBLUSTSEELTE

IC ID: 11492A-STSEELTE

File Number: ER/2015/70109

Date of test: Aug. 18, 2015 ~ Sep. 17, 2015

Date of EUT Received: Aug. 18, 2015

We hereby certify that:

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

The test results of this report relate only to the tested sample identified in this report.

Test By:

Marcus Tseng

Date:

Sep. 17, 2015

Marcus Tseng / Sr. Engineer

Prepared
By:

Tiffany Kao

Date:

Sep. 17, 2015

Tiffany Kao / Clerk

Approved
By:

Jim Chang

Date:

Sep. 17, 2015

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/70109	Rev.00	Initial creation of document	Sep. 17, 2015

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Table of Contents

1. GENERAL PRODUCT INFORMATION	6
1.1. Product Description.....	6
1.2. Product Feature of Equipment Under Test.....	14
1.3. Test Methodology of Applied Standards.....	15
1.4. Test Facility	15
1.5. Special Accessories	15
1.6. Equipment Modifications.....	15
2. SYSTEM TEST CONFIGURATION	16
2.1. EUT Configuration	16
2.2. EUT Exercise	16
2.3. Test Procedure.....	16
2.4. Measurement Results Explanation Example	17
2.5. Final Amplifier Voltage and Current Information:	17
2.6. Configuration of Tested System	21
3. SUMMARY OF TEST RESULTS	22
4. DESCRIPTION OF TEST MODES.....	23
4.1. The Worst Test Modes and Channel Details.....	23
5. MEASUREMENT UNCERTAINTY	30
6. RF CONDUCTED OUTPUT POWER MEASUREMENT.....	31
6.1. Standard Applicable	31
6.2. Test Set-up.....	31
6.3. Measurement Procedure	31
6.4. Measurement Equipment Used	32
6.5. Measurement Result.....	32
7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT	49
7.1. Standard Applicable	49
7.2. Test SET-UP	50
7.3. Measurement Procedure	52
7.4. Measurement Equipment Used	53
7.5. Measurement Result: (Peak) –using option of peak measurement.....	54
7.6. Measurement Result: (Average) –using option of average measurement.....	81
8. OCCUPIED BANDWIDTH MEASUREMENT.....	108
8.1. Standard Applicable	108

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8.2.	Test Set-up	108
8.3.	Measurement Procedure	108
8.4.	Measurement Equipment Used	109
8.5.	Measurement Result	110
9.	OUT OF BAND EMISSION AT ANTENNA TERMINALS	304
9.1.	Standard Applicable	304
9.2.	Test SET-UP	308
9.3.	Measurement Procedure	308
9.4.	Measurement Equipment Used	309
9.5.	Measurement Result:	309
10.	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	476
10.1.	Standard Applicable	476
10.2.	EUT Setup	479
10.3.	Measurement Procedure:	480
10.4.	Measurement Equipment Used:	481
10.5.	Measurement Result:	482
11.	FREQUENCY STABILITY MEASUREMENT	542
11.1.	Standard Applicable:	542
11.2.	Test Set-up:	542
11.3.	Measurement Procedure:	542
11.4.	Measurement Equipment Used:	543
11.5.	Measurement Result:	544
12.	PEAK TO AVERAGE RATIO	554
12.1.	Standard Applicable	554
12.2.	Test SET-UP	554
12.3.	Measurement Procedure	554
12.4.	Measurement Equipment Used	554
12.5.	Measurement Result	555
	PHOTOGRAPHS OF SET UP	616
	PHOTOGRAPHS OF EUT	619

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Smart phone	
Brand Name:	BLU	
Type No.:	Studio Selfie LTE	
Model Difference:	N/A	
Data Cable (USB):	Model No.: PCB042100307-4, Supplier: Jess-Link	
Simple Hands-Free:	Model No.: HF-AC04D-03, Supplier: Dongguan Galien Electron Co., Ltd	
Product SW/HW version:	BLU_S0070UU-V09_TMOBILE / OB	
Radio SW/HW version:	N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	3.8Vdc from Rechargeable Li-polymer Battery or 5.0V from AC/DC Adapter	
	Battery:	Model No.: C635944200P, Supplier: APACK
	Adapter:	Model No.: DSA-5PF02-05 FUS 050100, Supplier: DVE
IMEI:	354079070001330	

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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 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 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	246KGXW
	GPRS 850	243KGXW
	EDGE 850	248KG7W
	GSM 1900	246KGXW
	GPRS 1900	248KGXW
	EDGE 1900	244KG7W
	WCDMA Band II	4M18F9W
	WCDMA Band IV	4M16F9W
	WCDMA Band V	4M16F9W
	HSDPA Band II	4M16F9W
	HSDPA Band IV	4M16F9W
	HSDPA Band V	4M15F9W
	HSUPA Band II	4M17F9W
	HSUPA Band IV	4M16F9W
	HSUPA Band V	4M14F9W
	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	4M50G7D
	LTE-Band 2 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 2 (Bandwidth 10MHz) QPSK	8M99G7D
	LTE-Band 2 (Bandwidth 10MHz) 16QAM	8M98D7W
	LTE-Band 2 (Bandwidth 15MHz) QPSK	13M4G7D
	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	2M71G7D
	LTE-Band 4 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 4 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 4 (Bandwidth 5MHz) 16QAM	4M50D7W
	LTE-Band 4 (Bandwidth 10MHz) QPSK	8M98G7D
	LTE-Band 4 (Bandwidth 10MHz) 16QAM	8M98D7W
	LTE-Band 4 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 4 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 4 (Bandwidth 20MHz) QPSK	17M9G7D
	LTE-Band 4 (Bandwidth 20MHz) 16QAM	18M0D7W

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Type of Emission:	LTE-Band 7 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 7 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 7 (Bandwidth 10MHz) QPSK	8M98G7D
	LTE-Band 7 (Bandwidth 10MHz) 16QAM	8M97D7W
	LTE-Band 7 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 7 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 7 (Bandwidth 20MHz) QPSK	17M9G7D
	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	2M72D7W
	LTE-Band 12 (Bandwidth 5MHz) QPSK	4M52G7D
	LTE-Band 12 (Bandwidth 5MHz) 16QAM	4M50D7W
	LTE-Band 12 (Bandwidth 10MHz) QPSK	9M01G7D
	LTE-Band 12 (Bandwidth 10MHz) 16QAM	9M01D7W
	LTE-Band 17 (Bandwidth 5MHz) QPSK	4M53G7D
	LTE-Band 17 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 17 (Bandwidth 10MHz) QPSK	8M95G7D
	LTE-Band 17 (Bandwidth 10MHz) 16QAM	8M96D7W

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Max ERP/EIRP Power Measurement Result:

	dBm		W
GSM 850	22.79	ERP	0.190
GPRS 850	22.6	ERP	0.182
EDGE 850	20.26	ERP	0.106
GSM 1900	31.09	EIRP	1.285
GPRS 1900	30.76	EIRP	1.191
EDGE 1900	30.97	EIRP	1.250
WCDMA Band II	31.21	EIRP	1.321
WCDMA Band IV	24.34	EIRP	0.272
WCDMA Band V	19.76	ERP	0.095
HSDPA Band II	29.69	EIRP	0.931
HSDPA Band IV	28.86	EIRP	0.769
HSDPA Band V	18.73	ERP	0.075
HSUPA Band II	29.86	EIRP	0.968
HSUPA Band IV	27.43	EIRP	0.553
HSUPA Band V	17.71	ERP	0.059
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	27.45	EIRP	0.556
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	26.38	EIRP	0.435
LTE-Band 2 (Bandwidth 3MHz) QPSK	28.8	EIRP	0.759
LTE-Band 2 (Bandwidth 3MHz) 16QAM	26.36	EIRP	0.433
LTE-Band 2 (Bandwidth 5MHz) QPSK	28.66	EIRP	0.735
LTE-Band 2 (Bandwidth 5MHz) 16QAM	28.44	EIRP	0.698
LTE-Band 2 (Bandwidth 10MHz) QPSK	28.17	EIRP	0.656
LTE-Band 2 (Bandwidth 10MHz) 16QAM	28.55	EIRP	0.716
LTE-Band 2 (Bandwidth 15MHz) QPSK	28.16	EIRP	0.655
LTE-Band 2 (Bandwidth 15MHz) 16QAM	27.72	EIRP	0.592
LTE-Band 2 (Bandwidth 20MHz) QPSK	27.85	EIRP	0.610
LTE-Band 2 (Bandwidth 20MHz) 16QAM	28.05	EIRP	0.638

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	dBm		W
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	27.80	EIRP	0.603
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	27.87	EIRP	0.612
LTE-Band 4 (Bandwidth 3MHz) QPSK	28.22	EIRP	0.664
LTE-Band 4 (Bandwidth 3MHz) 16QAM	28.22	EIRP	0.664
LTE-Band 4 (Bandwidth 5MHz) QPSK	28.43	EIRP	0.697
LTE-Band 4 (Bandwidth 5MHz) 16QAM	28.42	EIRP	0.695
LTE-Band 4 (Bandwidth 10MHz) QPSK	27.48	EIRP	0.560
LTE-Band 4 (Bandwidth 10MHz) 16QAM	27.51	EIRP	0.564
LTE-Band 4 (Bandwidth 15MHz) QPSK	27.58	EIRP	0.573
LTE-Band 4 (Bandwidth 15MHz) 16QAM	27.54	EIRP	0.568
LTE-Band 4 (Bandwidth 20MHz) QPSK	27.30	EIRP	0.537
LTE-Band 4 (Bandwidth 20MHz) 16QAM	27.45	EIRP	0.556
LTE-Band 7 (Bandwidth 5MHz) QPSK	28.35	EIRP	0.684
LTE-Band 7 (Bandwidth 5MHz) 16QAM	27.43	EIRP	0.553
LTE-Band 7 (Bandwidth 10MHz) QPSK	27.61	EIRP	0.577
LTE-Band 7 (Bandwidth 10MHz) 16QAM	27.32	EIRP	0.540
LTE-Band 7 (Bandwidth 15MHz) QPSK	27.84	EIRP	0.608
LTE-Band 7 (Bandwidth 15MHz) 16QAM	27.67	EIRP	0.585
LTE-Band 7 (Bandwidth 20MHz) QPSK	27.82	EIRP	0.605
LTE-Band 7 (Bandwidth 20MHz) 16QAM	27.50	EIRP	0.562

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	dBm		W
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	14.55	ERP	0.029
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	16.06	ERP	0.040
LTE-Band 12 (Bandwidth 3MHz) QPSK	15.91	ERP	0.039
LTE-Band 12 (Bandwidth 3MHz) 16QAM	15.67	ERP	0.037
LTE-Band 12 (Bandwidth 5MHz) QPSK	14.61	ERP	0.029
LTE-Band 12 (Bandwidth 5MHz) 16QAM	15.36	ERP	0.034
LTE-Band 12 (Bandwidth 10MHz) QPSK	14.65	ERP	0.029
LTE-Band 12 (Bandwidth 10MHz) 16QAM	15.15	ERP	0.033
LTE-Band 17 (Bandwidth 5MHz) QPSK	14.74	ERP	0.030
LTE-Band 17 (Bandwidth 5MHz) 16QAM	15.81	ERP	0.038
LTE-Band 17 (Bandwidth 10MHz) QPSK	15.42	ERP	0.035
LTE-Band 17 (Bandwidth 10MHz) 16QAM	15.81	ERP	0.038

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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 802.11bgn, Bluetooth features, and below is details of information.

Product Feature	
Product Name:	Smart phone
Brand Name:	BLU
Model No.:	Studio Selfie LTE
Model Difference:	N/A
FCC ID	YHLBLUSTSEELTE
IC ID	11492A-STSEELTE
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 2 / 4 / 7 / 12 / 17
LTE Rel. Version	Rel.9
Wi-Fi Specification	802.11b/g/n
Bluetooth Version	V4.1 dual mode + HS

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.

RSS Gen Issue 4 Nov. 2015

RSS-130-issue 1 Oct. 2013 , RSS-132 Issue 3 Jan. 2013,

RSS-133 Issue 6 Jan. 2013, RSS-139 Issue 2 Feb. 2009

RSS-199 Issue 2 Oct. 2014.

Note:

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

1.4. Test Facility

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

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-4.

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

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2.4. Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation example with cable loss 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) =0.5+10+3.2=13.7(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.8+10+3.2=14.0(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.8	586
GSM 1900	3.8	426
GPRS 850	3.8	541
GPRS 1900	3.8	367
EDGE 850	3.8	435
EDGE 1900	3.8	441
WCDMA B2	3.8	781
WCDMA B4	3.8	774
WCDMA B5	3.8	762
HSUPA B2	3.8	406
HSUPA B4	3.8	413
HSUPA B5	3.8	406

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HSDPA B2	3.8	416
HSDPA B4	3.8	424
HSDPA B5	3.8	421

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	3.8 Vdc	871
LTE Band 2_1.4M 16QAM	3.8 Vdc	899
LTE Band 2_3M QPSK	3.8 Vdc	901
LTE Band 2_3M 16QAM	3.8 Vdc	911
LTE Band 2_5M QPSK	3.8 Vdc	965
LTE Band 2_5M 16QAM	3.8 Vdc	916
LTE Band 2_10M QPSK	3.8 Vdc	991
LTE Band 2_10M 16QAM	3.8 Vdc	932
LTE Band 2_15M QPSK	3.8 Vdc	998
LTE Band 2_15M 16QAM	3.8 Vdc	969
LTE Band 2_20M QPSK	3.8 Vdc	963
LTE Band 2_20M 16QAM	3.8 Vdc	931

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	3.8 Vdc	1031
LTE Band 4_1.4M 16QAM	3.8 Vdc	1036
LTE Band 4_3M QPSK	3.8 Vdc	1069
LTE Band 4_3M 16QAM	3.8 Vdc	1078
LTE Band 4_5M QPSK	3.8 Vdc	1088
LTE Band 4_5M 16QAM	3.8 Vdc	1063
LTE Band 4_10M QPSK	3.8 Vdc	1088
LTE Band 4_10M 16QAM	3.8 Vdc	1096
LTE Band 4_15M QPSK	3.8 Vdc	1014
LTE Band 4_15M 16QAM	3.8 Vdc	1009
LTE Band 4_20M QPSK	3.8 Vdc	1087
LTE Band 4_20M 16QAM	3.8 Vdc	1065

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	3.8 Vdc	732
LTE Band 7_5M 16QAM	3.8 Vdc	661
LTE Band 7_10M QPSK	3.8 Vdc	741
LTE Band 7_10M 16QAM	3.8 Vdc	669
LTE Band 7_15M QPSK	3.8 Vdc	714
LTE Band 7_15M 16QAM	3.8 Vdc	699
LTE Band 7_20M QPSK	3.8 Vdc	758
LTE Band 7_20M 16QAM	3.8 Vdc	706

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 12_1.4M QPSK	3.8 Vdc	874
LTE Band 12_1.4M 16QAM	3.8 Vdc	855
LTE Band 12_3M QPSK	3.8 Vdc	936
LTE Band 12_3M 16QAM	3.8 Vdc	822
LTE Band 12_5M QPSK	3.8 Vdc	906
LTE Band 12_5M 16QAM	3.8 Vdc	889
LTE Band 12_10M QPSK	3.8 Vdc	936
LTE Band 12_10M 16QAM	3.8 Vdc	914

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 17_5M QPSK	3.8 Vdc	614
LTE Band 17_5M 16QAM	3.8 Vdc	556
LTE Band 17_10M QPSK	3.8 Vdc	614
LTE Band 17_10M 16QAM	3.8 Vdc	596

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2.6. Configuration of Tested System

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

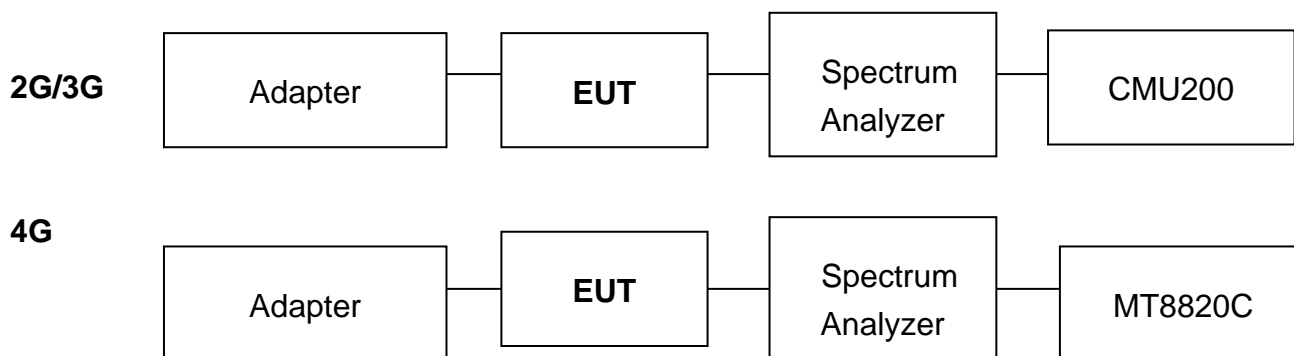


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

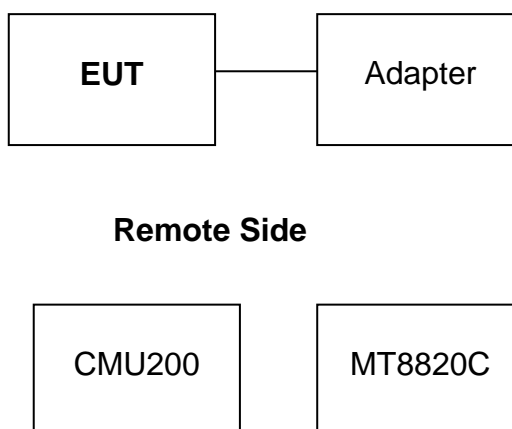


Table 2-1 Equipment Used in

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	N/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)	§4.8 (RSS-Gen Issue 3) §4.4 (RSS-130) §5.4 (RSS-132) §6.4 (RSS-133) §6.4 (RSS-139) §4.4 (RSS-199)	ERP/ EIRP meas- urement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen Issue 3) §4.6 (RSS-130) §2.3 (RSS-133) §2.3 (RSS-139) §4.2 (RSS-199)	99% & 26dB Occuupied Band- width	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)	§4.9 (RSS-Gen Issue 3) §4.6 (RSS-130) §5.5 (RSS-132) §6.5 (RSS-133) §6.5 (RSS-139) §4.6 (RSS-199)	Out of Band Emis- sions 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)	§4.9 (RSS-Gen Issue 3) §4.6 (RSS-130) §5.5 (RSS-132) §6.5 (RSS-133) §6.5 (RSS-139) §4.6 (RSS-199)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	§4.4 (RSS-130) §5.4 (RSS-132) §6.4 (RSS-133) §6.4 (RSS-139) §5.4 (RSS-132)	Peak to Average Ratio	Compliant
§27.53(f)	§4.6 (RSS-130)	Spurious emission in 1559 -1610MHz Band	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	§4.7 (RSS-Gen Issue 3) §4.3 (RSS-130) §5.3 (RSS-132) §6.3 (RSS-133) §6.3 (RSS-139) §4.3 (RSS-199)	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	E2-plan	E2-plan
GSM/GPRS/EDGE 1900	E2-plan	E2-plan
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	E2-plan	E2-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-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/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
CONDCUDED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM 850 GSM 1900

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	WCDMA Band II HSDPA Band IV WCDMA 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	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB/ 14 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	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	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	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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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
CONDCUDED 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	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	1 RB/ 5 RB Offest

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB 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	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	1 RB, 0 RB Offest

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

Measurement uncertainty (Polarization : 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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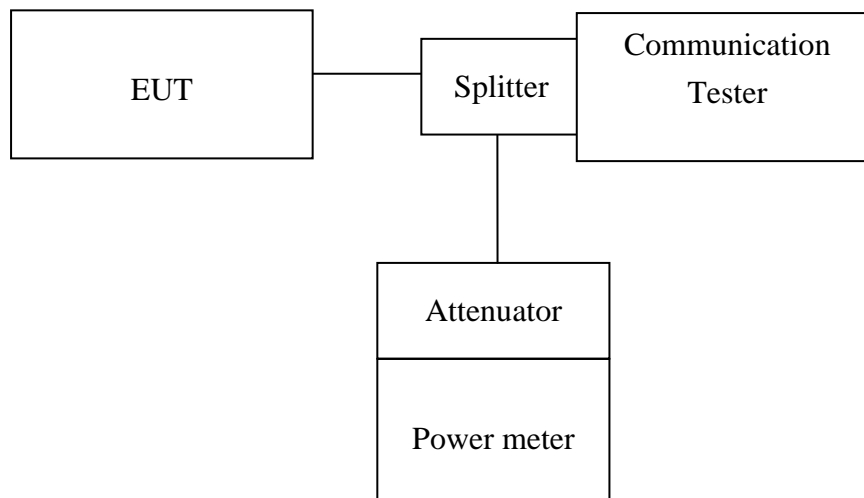
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

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

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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

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

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

6.5. Measurement Result

RF Conducted Output Power

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

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 850	824.2	128	33.30	32.80
	836.6	190	33.40	32.80
	848.8	251	33.40	32.90
GSM 1900	1850.2	512	30.10	29.80
	1880.0	661	30.00	29.70
	1909.8	810	30.00	29.70

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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	33.20	32.70	33.00	32.40	32.80	32.30	33.00	32.20
	836.6	190	33.40	32.80	33.10	32.60	32.80	32.30	32.80	32.00
	848.8	251	33.40	32.80	33.20	32.60	32.80	32.30	32.70	32.20
GPRS 1900	1850.2	512	30.10	29.80	30.00	29.70	29.90	29.60	29.80	29.50
	1880.0	661	30.00	29.70	29.90	29.70	29.80	29.50	29.90	29.40
	1909.8	810	30.00	29.70	30.00	29.60	29.80	29.50	29.70	29.40
EDGE 850	824.2	128	29.80	26.50	29.60	26.40	29.40	26.20	29.20	26.00
	836.6	190	29.80	26.60	29.60	26.50	29.50	26.40	29.30	26.10
	848.8	251	29.80	26.60	29.70	26.50	29.60	26.40	29.40	26.20
EDGE 1900	1850.2	512	28.70	25.70	28.80	25.60	28.70	25.50	28.50	25.40
	1880.0	661	28.90	25.70	28.90	25.60	28.80	25.50	28.60	25.40
	1909.8	810	28.90	25.90	29.00	25.80	28.80	25.70	28.70	25.60

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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. Pow- er (dBm)
WCDMA Band II	1852.4	9262	27.04	23.80
	1880.0	9400	27.13	23.81
	1907.6	9538	27.01	26.98
WCDMA Band IV	1712.4	1312	27.06	24.00
	1732.6	1413	26.94	24.08
	1752.6	1513	27.22	23.92
WCDMA Band V	826.4	4132	26.68	24.06
	836.6	4183	26.78	24.14
	846.6	4233	26.55	24.16
HSDPA Band II	1852.4	9262	26.39	22.70
	1880.0	9400	26.48	22.69
	1907.6	9538	26.48	22.87
HSDPA Band IV	1712.4	1312	26.55	23.02
	1732.6	1413	26.47	22.86
	1752.6	1513	26.77	23.00
HSDPA Band V	826.4	4132	26.16	22.89
	836.6	4183	26.21	22.86
	846.6	4233	26.06	22.83

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	25.92	22.15
	1880.0	9400	25.95	22.17
	1907.6	9538	26.13	22.32
HSUPA Band IV	1712.4	1312	26.11	22.37
	1732.6	1413	26.12	22.37
	1752.6	1513	26.38	22.48
HSUPA Band V	826.4	4132	25.88	22.45
	836.6	4183	25.91	22.44
	846.6	4233	25.84	22.41

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

Cable loss offset Low Band: 0.5dB

Cable loss offset High Band: 0.8dB

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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	23.51	23.33	22.97	22.54	22.70	22.30
	1	5	23.54	23.46	22.99	22.61	22.74	22.42
	3	2	23.38	23.41	23.02	22.30	22.39	22.04
	6	0	22.25	22.47	22.94	21.24	21.12	21.51

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	23.16	23.43	23.25	22.66	22.52	22.48
	1	14	23.51	23.58	23.24	22.77	22.87	22.49
	8	4	22.41	22.46	22.83	21.34	21.61	22.17
	15	0	22.25	22.45	22.75	21.50	21.68	21.85

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	23.29	23.60	23.42	22.52	22.74	22.81
	1	24	23.62	23.87	23.36	22.69	22.86	22.65
	12	6	22.47	22.50	22.81	21.24	21.39	21.79
	25	0	22.38	22.56	22.89	21.34	21.46	21.80

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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	23.53	23.17	23.60	22.74	22.33	22.95
	1	49	23.52	23.59	22.77	22.42	22.58	21.95
	25	12	22.39	22.60	22.87	21.47	21.64	22.21
	50	0	22.34	22.42	22.83	21.23	21.54	21.86

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	23.55	23.65	23.88	22.77	22.86	23.18
	1	74	23.47	23.77	23.39	22.66	22.81	22.67
	36	19	22.31	22.50	22.79	21.39	21.55	21.85
	75	0	22.27	22.59	22.81	21.37	21.62	21.83

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	23.56	23.57	23.78	22.51	22.69	22.78
	1	99	23.23	23.49	23.17	22.08	22.66	22.23
	50	25	22.48	22.61	22.91	21.50	21.44	21.78
	100	0	22.46	22.47	22.94	21.59	21.44	21.72

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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	23.92	23.90	23.66	23.15	23.04	22.72
	1	5	23.79	23.55	23.58	23.14	22.95	22.69
	3	2	23.96	23.59	23.37	22.81	22.78	22.51
	6	0	22.91	22.72	22.56	21.49	21.51	21.52

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	23.98	23.56	23.42	23.24	23.01	22.95
	1	14	23.99	23.49	23.49	23.35	23.23	23.05
	8	4	22.85	22.77	22.56	21.82	22.04	21.58
	15	0	22.85	22.79	22.54	21.80	21.77	21.61

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	23.96	23.78	23.83	23.25	22.98	22.89
	1	24	24.01	23.82	23.73	22.80	22.88	22.73
	12	6	23.05	22.87	22.72	21.89	21.75	21.61
	25	0	23.01	22.85	22.80	21.91	21.76	21.71

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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	23.68	23.82	23.66	22.84	23.00	22.89
	1	49	24.03	23.72	23.32	23.23	22.89	22.69
	25	12	22.92	22.89	22.66	21.95	21.90	21.89
	50	0	23.02	22.86	22.71	21.75	21.70	21.57

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	24.10	24.09	23.84	23.25	23.14	23.29
	1	74	23.81	23.81	23.75	23.04	22.35	23.07
	36	19	23.00	22.76	22.73	21.96	21.89	21.57
	75	0	22.91	22.76	22.56	21.88	21.77	21.58

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	24.04	23.93	23.78	23.20	23.22	22.70
	1	99	23.14	23.61	23.36	22.72	22.52	22.50
	50	25	22.94	22.81	22.70	21.89	21.59	21.76
	100	0	22.81	22.87	22.65	21.78	21.89	21.63

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LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	23.16	22.64	22.76	22.17	22.01	21.66
	1	24	23.13	22.41	22.71	21.97	21.78	21.82
	12	6	22.01	21.39	21.60	20.95	20.37	20.55
	25	0	21.98	21.35	21.50	20.87	20.43	20.73

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	23.14	22.49	22.49	22.13	21.19	21.47
	1	49	22.96	22.89	22.60	22.06	21.09	21.78
	25	12	21.96	21.40	21.51	20.80	20.47	20.71
	50	0	21.87	21.42	21.41	20.86	20.39	20.63

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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	23.26	22.80	22.64	22.28	21.95	21.57
	1	74	22.94	22.72	22.81	21.56	21.45	21.71
	36	19	21.97	21.36	21.41	20.94	20.40	20.25
	75	0	21.92	21.40	21.37	20.88	20.39	20.55

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	23.21	22.59	22.57	22.35	21.75	21.71
	1	99	22.63	22.57	22.71	21.84	21.23	21.39
	50	25	21.88	21.44	21.46	20.94	20.59	20.42
	100	0	21.84	21.39	21.43	20.83	20.55	20.33

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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	23.57	23.47	23.44	22.07	22.66	22.30
	1	5	23.48	23.58	23.94	21.88	22.81	22.80
	3	2	23.31	23.61	23.54	22.54	22.72	22.54
	6	0	22.34	22.44	22.53	21.23	21.35	21.41

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	23.42	23.59	23.45	22.70	22.96	22.70
	1	14	23.63	23.70	23.52	22.27	22.78	22.72
	8	4	22.58	22.68	22.69	21.21	21.54	21.56
	15	0	22.46	22.55	22.74	21.29	21.54	21.86

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	23.40	23.55	23.61	22.31	22.71	22.99
	1	24	23.57	23.54	23.84	22.10	22.85	22.46
	12	6	22.60	22.65	22.78	21.50	21.41	21.42
	25	0	22.40	22.79	22.81	21.67	21.57	21.54

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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	23.43	23.37	23.61	22.52	22.73	22.93
	1	49	23.38	23.67	23.93	22.89	22.94	22.87
	25	12	22.64	22.58	22.69	21.63	21.55	21.75
	50	0	22.68	22.68	22.78	21.52	21.68	21.61

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	23.11	23.31	23.11	22.00	22.30	22.27
	1	24	23.14	23.30	23.29	22.04	22.22	22.38
	12	6	22.09	22.19	22.23	20.88	20.92	21.07
	25	0	22.13	22.14	22.29	21.10	21.24	21.14

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	23.31	23.49	23.42	22.30	22.27	22.43
	1	49	23.56	23.68	23.56	22.63	22.46	22.51
	25	12	22.23	22.23	22.27	21.27	21.41	21.37
	50	0	22.10	22.20	22.23	21.13	21.10	21.23

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	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.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.97	23.70	26.84	20.3dBm – 25.7dBm	Pass
	2	23.68	23.67	26.83	20.3dBm – 25.7dBm	Pass
	3	23.49	23.25	26.31	19.8dBm – 25.7dBm	Pass
	4	23.56	23.26	26.43	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.71	24.18	23.76	20.3dBm – 25.7dBm	Pass
	2	23.88	23.94	23.77	20.3dBm – 25.7dBm	Pass
	3	23.23	23.73	23.23	19.8dBm – 25.7dBm	Pass
	4	23.30	23.74	23.35	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.85	24.00	24.28	20.3dBm – 25.7dBm	Pass
	2	23.99	24.03	24.03	20.3dBm – 25.7dBm	Pass
	3	23.39	23.52	23.79	19.8dBm – 25.7dBm	Pass
	4	23.44	23.56	23.85	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} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.72	23.79	26.92	18.8dBm – 25.7dBm	Pass
	2	21.77	21.86	24.96	16.8dBm – 25.7dBm	Pass
	3	22.78	22.81	26.00	17.8dBm – 25.7dBm	Pass
	4	21.90	21.91	25.00	16.8dBm – 25.7dBm	Pass
	5	23.61	23.65	26.83	18.8dBm – 25.7dBm	Pass

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Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.92	24.06	23.86	20.3dBm – 25.7dBm	Pass
	2	21.97	22.13	21.90	20.3dBm – 25.7dBm	Pass
	3	22.98	23.08	22.94	19.8dBm – 25.7dBm	Pass
	4	22.10	22.18	21.94	19.8dBm – 25.7dBm	Pass
	5	23.81	23.92	23.77	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	24.02	24.07	24.08	18.8dBm – 25.7dBm	Pass
	2	22.08	22.15	22.12	16.8dBm – 25.7dBm	Pass
	3	23.06	23.13	23.16	17.8dBm – 25.7dBm	Pass
	4	22.13	22.21	22.20	16.8dBm – 25.7dBm	Pass
	5	23.88	23.90	23.97	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)	29.8	28.3	24.7	24.1	22.3	20.1	18.1	16.3	14.5

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.5	10.4	8.4	6.3	4.4	2.4	0.3

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

WCDMA/HSDPA/HSUPA band II, V

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

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

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

According to RSS-130 §4.4

It shall not exceed 5 W for portable equipment or for indoor fixed subscriber equipment.

According to RSS-132, section 5.4.

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W given in SRSP-510.

According to RSS 139 §6.4

The average equivalent isotropically radiated power (e.i.r.p.) for fixed, mobile and portable transmitters in the 1710-1755 MHz shall not exceed 1 watt.

According to RSS-199 §4.4

For mobile subscriber equipment, the e.i.r.p. shall not exceed 2 watts.

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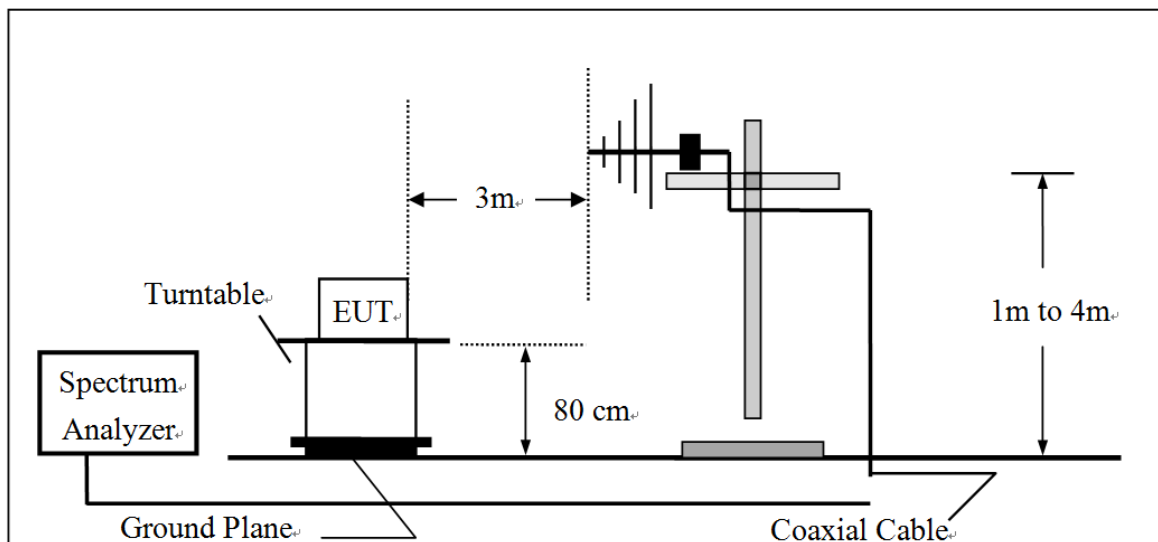
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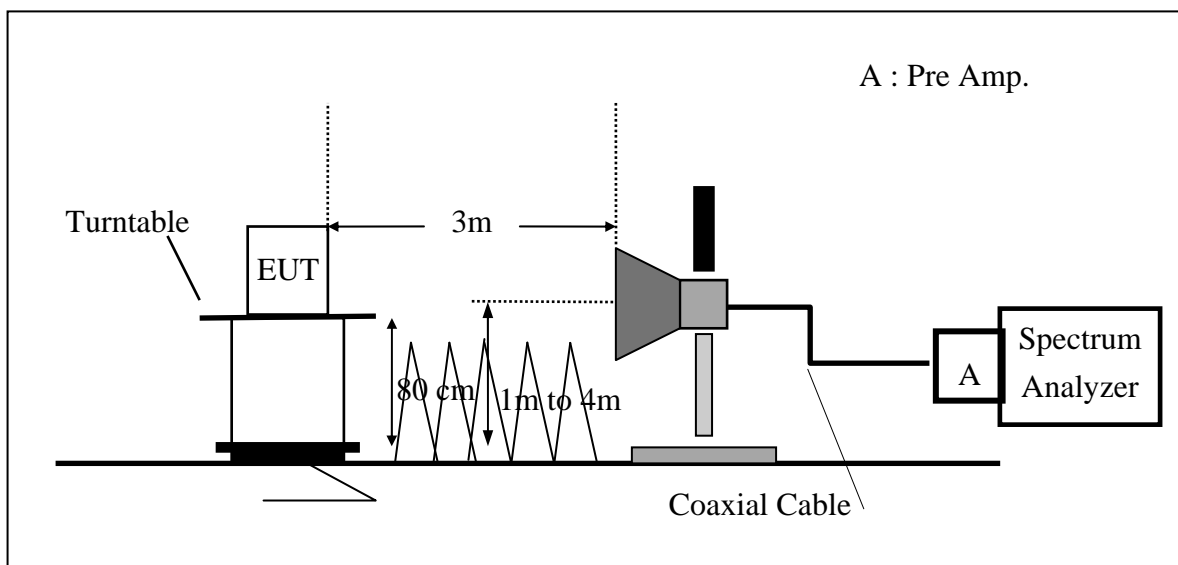
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7.2. Test SET-UP

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



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



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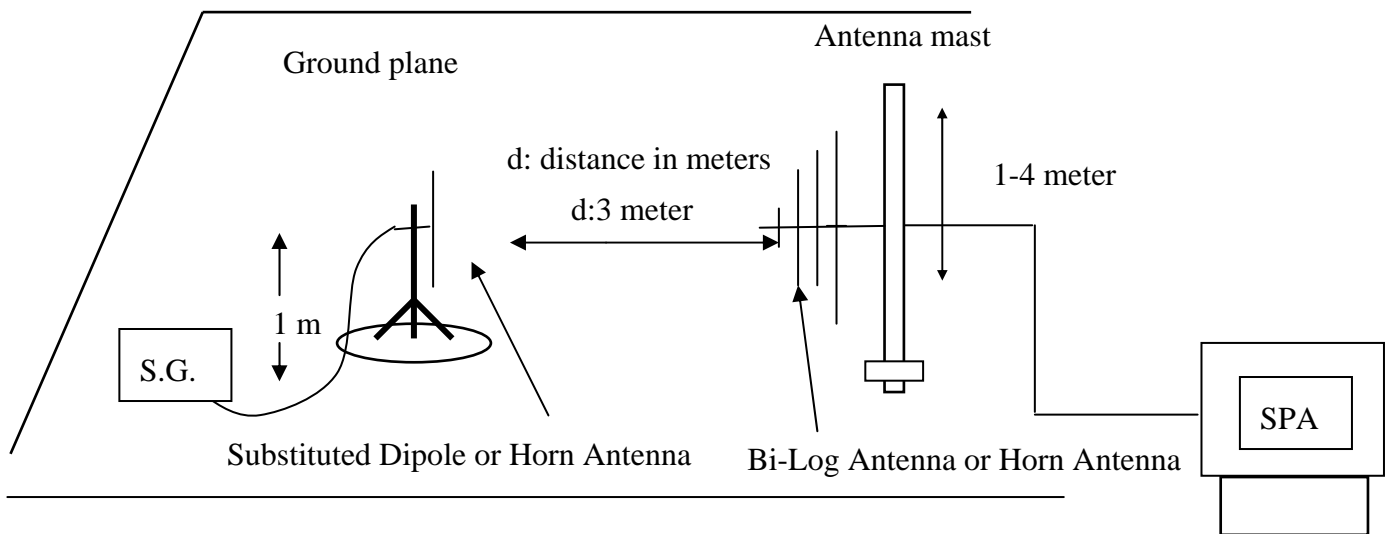
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(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
 - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $VBW \geq 3 \times RBW$.
 - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;
 Set span = 2 X occupied BW;
 Set RBW \approx 1~5% of the span, not to exceed 1 MHz
 Set VBW = 3 x RBW;
 Select average power (RMS) detector
 Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time = $601 \times 10^{-3} = 6s$).

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 $10 \times \log(TBW/RBW)$, 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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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
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	07/25/2015	07/24/2016
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	07/31/2015	07/30/2016
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	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	14.30	3.45	-2.94	14.82	38.45
			H	22.27	3.45	-2.94	22.79	38.45
	836.6	190	V	17.15	3.46	-2.97	17.64	38.45
			H	21.83	3.46	-2.97	22.32	38.45
	848.8	251	V	16.96	3.47	-3.01	17.42	38.45
			H	22.24	3.47	-3.01	22.70	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
GPRS 850	824.2	128	V	15.96	3.45	-2.94	16.48	38.45
			H	22.08	3.45	-2.94	22.60	38.45
	836.6	190	V	14.19	3.46	-2.97	14.68	38.45
			H	21.72	3.46	-2.97	22.21	38.45
	848.8	251	V	13.00	3.47	-3.01	13.46	38.45
			H	22.09	3.47	-3.01	22.55	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	13.47	3.45	-2.94	13.99	38.45
			H	19.74	3.45	-2.94	20.26	38.45
	836.6	190	V	11.56	3.46	-2.97	12.05	38.45
			H	19.23	3.46	-2.97	19.71	38.45
	848.8	251	V	9.10	3.47	-3.01	9.56	38.45
			H	18.64	3.47	-3.01	19.10	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	26.17	4.84	-4.49	26.53	33.01
			H	30.22	4.84	-4.49	30.57	33.01
	1880.0	661	V	26.87	4.79	-4.53	27.14	33.01
			H	30.82	4.79	-4.53	31.09	33.01
	1909.8	810	V	26.75	4.74	-4.57	26.93	33.01
			H	30.33	4.74	-4.57	30.51	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	27.19	4.84	-4.49	27.54	33.01
			H	30.41	4.84	-4.49	30.76	33.01
	1880.0	661	V	24.31	4.79	-4.53	24.57	33.01
			H	27.89	4.79	-4.53	28.16	33.01
	1909.8	810	V	27.59	4.74	-4.57	27.77	33.01
			H	30.55	4.74	-4.57	30.73	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	27.79	4.84	-4.49	28.15	33.01
			H	30.46	4.84	-4.49	30.82	33.01
	1880.0	661	V	26.16	4.79	-4.53	26.42	33.01
			H	30.70	4.79	-4.53	30.97	33.01
	1909.8	810	V	27.59	4.74	-4.57	27.76	33.01
			H	27.33	4.74	-4.57	27.51	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
WCDMA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	25.89	4.84	-4.49	26.24	33.01
			H	29.48	4.84	-4.49	29.83	33.01
	1880.0	9400	V	23.42	4.79	-4.53	23.68	33.01
			H	30.94	4.79	-4.53	31.21	33.01
	1907.6	9538	V	25.92	4.75	-4.56	26.11	33.01
			H	28.32	4.75	-4.56	28.50	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSDPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	25.71	4.84	-4.49	26.06	33.01
			H	29.34	4.84	-4.49	29.69	33.01
	1880.0	9400	V	25.82	4.79	-4.53	26.09	33.01
			H	28.65	4.79	-4.53	28.92	33.01
	1907.6	9538	V	24.91	4.75	-4.56	25.10	33.01
			H	29.18	4.75	-4.56	29.37	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSUPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	25.41	4.84	-4.49	25.76	33.01
			H	28.86	4.84	-4.49	29.21	33.01
	1880.0	9400	V	24.20	4.79	-4.53	24.47	33.01
			H	29.59	4.79	-4.53	29.86	33.01
	1907.6	9538	V	25.51	4.75	-4.56	25.69	33.01
			H	26.49	4.75	-4.56	26.68	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
WCDMA B4	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1712.4	1312	V	9.51	5.09	-4.29	21.00	30.00
			H	8.23	5.09	-4.29	16.91	30.00
	1732.6	1413	V	10.29	5.05	-4.31	24.34	30.00
			H	9.41	5.05	-4.31	18.91	30.00
	1752.6	1513	V	11.65	5.01	-4.37	18.35	30.00
			H	10.44	5.01	-4.37	18.68	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSDPA B4	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1712.4	1312	V	9.49	5.09	-4.29	24.69	30.00
			H	8.32	5.08	-4.29	20.90	30.00
	1732.6	1413	V	10.32	5.05	-4.31	28.86	30.00
			H	9.39	5.05	-4.31	24.00	30.00
	1752.6	1513	V	11.67	5.01	-4.37	24.45	30.00
			H	10.44	5.01	-4.37	22.30	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSUPA B4	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1712.4	1312	V	9.54	5.08	-4.29	24.06	30.00
			H	8.23	5.09	-4.29	19.09	30.00
	1732.6	1413	V	10.34	5.05	-4.31	27.43	30.00
			H	9.31	5.05	-4.31	22.25	30.00
	1752.6	1513	V	11.71	5.01	-4.37	22.02	30.00
			H	10.44	5.01	-4.37	21.26	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	11.78	3.46	-2.94	12.30	38.45
			H	18.19	3.46	-2.95	18.70	38.45
	836.6	4183	V	10.11	3.46	-2.98	10.59	38.45
			H	18.02	3.46	-2.98	18.50	38.45
	846.6	4233	V	8.93	3.47	-3.00	9.39	38.45
			H	19.29	3.47	-3.00	19.76	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	10.81	3.46	-2.94	11.32	38.45
			H	17.14	3.46	-2.95	17.65	38.45
	836.6	4183	V	9.15	3.46	-2.98	9.63	38.45
			H	16.93	3.46	-2.98	17.41	38.45
	846.6	4233	V	6.60	3.47	-3.00	7.07	38.45
			H	18.27	3.47	-3.00	18.73	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	8.99	3.46	-2.95	9.50	38.45
			H	17.16	3.46	-2.94	17.68	38.45
	836.6	4183	V	9.37	3.46	-2.98	9.86	38.45
			H	15.84	3.46	-2.97	16.33	38.45
	846.6	4233	V	8.12	3.47	-3.00	8.59	38.45
			H	17.24	3.47	-3.00	17.71	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	23.61	4.84	-4.49	23.96	33.01
			H	27.10	4.84	-4.49	27.45	33.01
	1880.0	18900	V	23.51	4.80	-4.52	23.78	33.01
			H	25.55	4.80	-4.52	25.82	33.01
	1909.3	19193	V	20.76	4.75	-4.56	20.94	33.01
			H	23.68	4.75	-4.56	23.87	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	23.74	4.84	-4.49	24.10	33.01
			H	25.58	4.84	-4.49	25.93	33.01
	1880.0	18900	V	22.56	4.80	-4.52	22.83	33.01
			H	25.48	4.80	-4.52	25.75	33.01
	1909.3	19193	V	20.84	4.75	-4.56	21.02	33.01
			H	23.86	4.75	-4.56	24.04	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	23.54	4.84	-4.49	23.89	33.01
			H	26.03	4.84	-4.49	26.38	33.01
	1880.0	18900	V	22.94	4.80	-4.52	23.21	33.01
			H	24.47	4.80	-4.52	24.74	33.01
	1909.3	19193	V	20.85	4.75	-4.56	21.04	33.01
			H	23.85	4.75	-4.56	24.04	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	23.49	4.84	-4.49	23.84	33.01
			H	25.95	4.84	-4.49	26.31	33.01
	1880.0	18900	V	22.73	4.80	-4.52	23.00	33.01
			H	25.00	4.80	-4.52	25.28	33.01
	1909.3	19193	V	20.93	4.75	-4.56	21.11	33.01
			H	24.14	4.75	-4.56	24.33	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 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	23.17	4.84	-4.49	23.52	33.01
			H	27.93	4.84	-4.49	28.28	33.01
	1880.0	18900	V	22.89	4.80	-4.52	23.17	33.01
			H	25.93	4.80	-4.52	26.21	33.01
	1908.5	19185	V	21.32	4.75	-4.56	21.51	33.01
			H	24.56	4.75	-4.56	24.75	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	23.25	4.84	-4.49	23.60	33.01
			H	28.45	4.84	-4.49	28.80	33.01
	1880.0	18900	V	22.46	4.79	-4.53	22.73	33.01
			H	26.03	4.79	-4.53	26.30	33.01
	1908.5	19185	V	21.35	4.75	-4.56	21.53	33.01
			H	24.44	4.75	-4.56	24.62	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	23.07	4.84	-4.49	23.42	33.01
			H	25.58	4.84	-4.49	25.93	33.01
	1880.0	18900	V	22.71	4.80	-4.52	22.98	33.01
			H	25.65	4.80	-4.52	25.92	33.01
	1908.5	19185	V	21.22	4.75	-4.56	21.41	33.01
			H	24.59	4.75	-4.56	24.79	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	23.49	4.84	-4.49	23.84	33.01
			H	26.00	4.84	-4.49	26.36	33.01
	1880.0	18900	V	22.52	4.79	-4.53	22.79	33.01
			H	25.47	4.79	-4.53	25.74	33.01
	1908.5	19185	V	21.32	4.75	-4.56	21.51	33.01
			H	24.64	4.75	-4.56	24.83	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	23.24	4.84	-4.49	23.59	33.01
			H	28.31	4.84	-4.49	28.66	33.01
	1880.0	18900	V	22.43	4.80	-4.52	22.71	33.01
			H	25.04	4.80	-4.52	25.32	33.01
	1907.5	19175	V	21.05	4.75	-4.56	21.25	33.01
			H	24.32	4.75	-4.56	24.52	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	23.27	4.84	-4.49	23.62	33.01
			H	28.05	4.84	-4.49	28.40	33.01
	1880.0	18900	V	21.92	4.79	-4.53	22.18	33.01
			H	25.36	4.79	-4.53	25.63	33.01
	1907.5	19175	V	20.81	4.75	-4.56	20.99	33.01
			H	24.00	4.75	-4.56	24.19	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	23.52	4.84	-4.49	23.87	33.01
			H	28.09	4.84	-4.49	28.44	33.01
	1880.0	18900	V	22.32	4.80	-4.52	22.59	33.01
			H	25.40	4.80	-4.52	25.68	33.01
	1907.5	19175	V	20.75	4.75	-4.56	20.95	33.01
			H	24.54	4.75	-4.56	24.74	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	23.27	4.84	-4.49	23.61	33.01
			H	27.98	4.84	-4.49	28.33	33.01
	1880.0	18900	V	22.00	4.79	-4.53	22.26	33.01
			H	25.67	4.79	-4.53	25.93	33.01
	1907.5	19175	V	20.71	4.75	-4.56	20.90	33.01
			H	24.02	4.75	-4.56	24.21	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	23.00	4.84	-4.49	23.36	33.01
			H	27.82	4.84	-4.49	28.17	33.01
	1880.0	18900	V	21.87	4.80	-4.52	22.16	33.01
			H	25.05	4.80	-4.52	25.33	33.01
	1905.0	19150	V	20.58	4.76	-4.55	20.79	33.01
			H	25.84	4.76	-4.55	26.05	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	23.76	4.83	-4.50	24.09	33.01
			H	26.73	4.83	-4.50	27.07	33.01
	1880.0	18900	V	21.28	4.79	-4.53	21.54	33.01
			H	25.42	4.79	-4.53	25.68	33.01
	1905.0	19150	V	20.22	4.75	-4.56	20.41	33.01
			H	23.47	4.75	-4.56	23.66	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	23.23	4.84	-4.49	23.58	33.01
			H	28.20	4.84	-4.49	28.55	33.01
	1880.0	18900	V	22.03	4.80	-4.52	22.32	33.01
			H	25.19	4.80	-4.52	25.48	33.01
	1905.0	19150	V	21.45	4.76	-4.55	21.66	33.01
			H	26.30	4.76	-4.55	26.51	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	23.51	4.83	-4.50	23.85	33.01
			H	27.03	4.83	-4.50	27.36	33.01
	1880.0	18900	V	21.37	4.79	-4.53	21.63	33.01
			H	25.69	4.79	-4.53	25.95	33.01
	1905.0	19150	V	20.24	4.75	-4.56	20.43	33.01
			H	23.56	4.75	-4.56	23.75	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	23.50	4.84	-4.49	23.85	33.01
			H	27.81	4.84	-4.49	28.16	33.01
	1880.0	18900	V	22.33	4.81	-4.52	22.62	33.01
			H	25.51	4.81	-4.51	25.81	33.01
	1902.5	19125	V	21.76	4.77	-4.54	21.98	33.01
			H	27.50	4.77	-4.54	27.72	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	23.57	4.82	-4.50	23.89	33.01
			H	26.01	4.82	-4.50	26.33	33.01
	1880.0	18900	V	21.82	4.79	-4.53	22.07	33.01
			H	26.18	4.79	-4.53	26.43	33.01
	1902.5	19125	V	20.54	4.75	-4.56	20.73	33.01
			H	23.65	4.75	-4.56	23.83	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	23.51	4.84	-4.49	23.86	33.01
			H	25.48	4.84	-4.49	25.83	33.01
	1880.0	18900	V	20.63	4.81	-4.51	20.92	33.01
			H	25.18	4.81	-4.51	25.47	33.01
	1902.5	19125	V	19.97	4.77	-4.54	20.20	33.01
			H	27.50	4.77	-4.54	27.72	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	23.56	4.82	-4.50	23.88	33.01
			H	26.63	4.82	-4.50	26.95	33.01
	1880.0	18900	V	21.84	4.79	-4.53	22.09	33.01
			H	26.49	4.79	-4.53	26.74	33.01
	1902.5	19125	V	20.48	4.75	-4.56	20.67	33.01
			H	23.73	4.75	-4.56	23.92	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	23.37	4.84	-4.49	23.72	33.01
			H	27.50	4.84	-4.49	27.85	33.01
	1880.0	18900	V	21.89	4.81	-4.52	22.18	33.01
			H	25.23	4.81	-4.52	25.52	33.01
	1900.0	19100	V	21.89	4.77	-4.54	22.12	33.01
			H	26.74	4.77	-4.54	26.97	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	22.56	4.82	-4.51	22.86	33.01
			H	25.79	4.82	-4.51	26.10	33.01
	1880.0	18900	V	21.81	4.78	-4.54	22.06	33.01
			H	26.66	4.78	-4.54	26.90	33.01
	1900.0	19100	V	19.88	4.75	-4.56	20.07	33.01
			H	23.24	4.75	-4.56	23.42	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	23.45	4.84	-4.49	23.80	33.01
			H	27.70	4.84	-4.49	28.05	33.01
	1880.0	18900	V	21.27	4.81	-4.52	21.56	33.01
			H	25.12	4.81	-4.52	25.41	33.01
	1900.0	19100	V	21.74	4.77	-4.54	21.97	33.01
			H	26.69	4.77	-4.54	26.91	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	23.06	4.81	-4.51	23.36	33.01
			H	25.45	4.82	-4.51	25.76	33.01
	1880.0	18900	V	22.00	4.78	-4.54	22.25	33.01
			H	26.70	4.78	-4.54	26.95	33.01
	1900.0	19100	V	18.73	4.75	-4.56	18.92	33.01
			H	23.47	4.75	-4.56	23.65	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	20.71	5.09	-4.29	21.51	30.00
			H	25.74	5.09	-4.29	26.54	30.00
	1732.5	20175	V	21.52	5.05	-4.31	22.27	30.00
			H	25.53	5.05	-4.31	26.28	30.00
	1754.3	20393	V	23.13	5.01	-4.37	23.77	30.00
			H	27.15	5.01	-4.37	27.80	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	20.79	5.09	-4.29	21.59	30.00
			H	25.85	5.09	-4.29	26.66	30.00
	1732.5	20175	V	21.44	5.05	-4.31	22.18	30.00
			H	25.58	5.05	-4.31	26.32	30.00
	1754.3	20393	V	23.04	5.01	-4.37	23.69	30.00
			H	26.92	5.01	-4.37	27.56	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	20.66	5.09	-4.29	21.45	30.00
			H	25.53	5.09	-4.29	26.33	30.00
	1732.5	20175	V	21.61	5.05	-4.31	22.36	30.00
			H	25.68	5.05	-4.31	26.42	30.00
	1754.3	20393	V	22.91	5.01	-4.37	23.56	30.00
			H	27.23	5.01	-4.37	27.87	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	21.00	5.09	-4.29	21.80	30.00
			H	25.86	5.09	-4.29	26.67	30.00
	1732.5	20175	V	21.67	5.05	-4.31	22.41	30.00
			H	25.60	5.05	-4.31	26.35	30.00
	1754.3	20393	V	23.21	5.01	-4.37	23.85	30.00
			H	27.10	5.01	-4.37	27.74	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	20.90	5.09	-4.29	21.70	30.00
			H	25.69	5.09	-4.29	26.49	30.00
	1732.5	20175	V	21.86	5.05	-4.31	22.61	30.00
			H	25.48	5.05	-4.31	26.23	30.00
	1753.5	20385	V	23.07	5.02	-4.36	23.72	30.00
			H	27.57	5.02	-4.36	28.22	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	20.35	5.09	-4.29	21.15	30.00
			H	26.37	5.09	-4.29	27.17	30.00
	1732.5	20175	V	21.77	5.05	-4.31	22.51	30.00
			H	25.77	5.05	-4.31	26.51	30.00
	1753.5	20385	V	23.30	5.01	-4.37	23.94	30.00
			H	27.01	5.01	-4.37	27.65	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	20.89	5.09	-4.29	21.68	30.00
			H	25.68	5.09	-4.29	26.48	30.00
	1732.5	20175	V	21.95	5.05	-4.31	22.70	30.00
			H	25.89	5.05	-4.31	26.64	30.00
	1753.5	20385	V	23.81	5.02	-4.36	24.46	30.00
			H	27.56	5.02	-4.36	28.22	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	21.72	5.09	-4.29	22.52	30.00
			H	26.44	5.09	-4.29	27.24	30.00
	1732.5	20175	V	21.77	5.05	-4.31	22.51	30.00
			H	25.85	5.05	-4.31	26.58	30.00
	1753.5	20385	V	23.38	5.01	-4.37	24.02	30.00
			H	27.06	5.01	-4.37	27.71	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	21.00	5.09	-4.29	21.80	30.00
			H	25.81	5.09	-4.29	26.60	30.00
	1732.5	20175	V	21.81	5.06	-4.30	22.57	30.00
			H	25.84	5.06	-4.30	26.60	30.00
	1752.5	20375	V	23.84	5.02	-4.36	24.51	30.00
			H	27.77	5.02	-4.36	28.43	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	21.82	5.08	-4.29	22.61	30.00
			H	26.44	5.08	-4.29	27.24	30.00
	1732.5	20175	V	21.54	5.05	-4.31	22.28	30.00
			H	26.12	5.05	-4.31	26.85	30.00
	1752.5	20375	V	23.09	5.01	-4.37	23.73	30.00
			H	27.08	5.01	-4.37	27.72	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	20.97	5.09	-4.29	21.76	30.00
			H	25.87	5.09	-4.29	26.67	30.00
	1732.5	20175	V	21.95	5.06	-4.30	22.70	30.00
			H	25.72	5.06	-4.30	26.47	30.00
	1752.5	20375	V	23.80	5.02	-4.36	24.47	30.00
			H	27.76	5.02	-4.36	28.42	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	21.88	5.08	-4.29	22.68	30.00
			H	26.49	5.08	-4.29	27.29	30.00
	1732.5	20175	V	21.75	5.05	-4.31	22.49	30.00
			H	26.01	5.05	-4.31	26.74	30.00
	1752.5	20375	V	23.08	5.01	-4.37	23.72	30.00
			H	27.10	5.01	-4.37	27.75	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	20.42	5.09	-4.29	21.22	30.00
			H	25.27	5.09	-4.29	26.06	30.00
	1732.5	20175	V	21.28	5.05	-4.31	22.03	30.00
			H	25.72	5.05	-4.31	26.47	30.00
	1750.0	20350	V	22.73	5.02	-4.35	23.40	30.00
			H	26.47	5.02	-4.35	27.14	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	21.63	5.08	-4.30	22.41	30.00
			H	26.22	5.08	-4.29	27.00	30.00
	1732.5	20175	V	21.02	5.04	-4.32	21.74	30.00
			H	25.69	5.04	-4.32	26.41	30.00
	1750.0	20350	V	23.35	5.01	-4.37	23.99	30.00
			H	26.84	5.01	-4.37	27.48	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	20.41	5.09	-4.29	21.21	30.00
			H	25.23	5.09	-4.29	26.02	30.00
	1732.5	20175	V	21.37	5.05	-4.31	22.11	30.00
			H	25.87	5.05	-4.31	26.62	30.00
	1750.0	20350	V	22.75	5.02	-4.35	23.42	30.00
			H	26.38	5.02	-4.35	27.05	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	21.66	5.08	-4.29	22.44	30.00
			H	26.31	5.08	-4.29	27.09	30.00
	1732.5	20175	V	21.10	5.04	-4.32	21.82	30.00
			H	25.93	5.04	-4.32	26.65	30.00
	1750.0	20350	V	22.76	5.01	-4.37	23.41	30.00
			H	26.86	5.01	-4.37	27.51	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	20.90	5.09	-4.29	21.70	30.00
			H	25.65	5.09	-4.29	26.44	30.00
	1732.5	20175	V	21.13	5.06	-4.30	21.88	30.00
			H	26.05	5.06	-4.30	26.80	30.00
	1747.5	20325	V	21.72	5.03	-4.34	22.41	30.00
			H	26.30	5.03	-4.34	26.99	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	21.09	5.07	-4.30	21.86	30.00
			H	26.22	5.07	-4.30	26.98	30.00
	1732.5	20175	V	21.36	5.04	-4.33	22.07	30.00
			H	26.23	5.04	-4.33	26.95	30.00
	1747.5	20325	V	22.85	5.01	-4.37	23.49	30.00
			H	26.93	5.01	-4.37	27.58	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	20.86	5.09	-4.29	21.65	30.00
			H	25.63	5.09	-4.29	26.42	30.00
	1732.5	20175	V	21.18	5.06	-4.30	21.93	30.00
			H	26.13	5.06	-4.30	26.89	30.00
	1747.5	20325	V	21.79	5.03	-4.34	22.48	30.00
			H	26.18	5.03	-4.34	26.87	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	21.13	5.07	-4.30	21.90	30.00
			H	26.27	5.07	-4.30	27.04	30.00
	1732.5	20175	V	21.50	5.04	-4.33	22.21	30.00
			H	26.35	5.04	-4.33	27.06	30.00
	1747.5	20325	V	22.96	5.01	-4.37	23.61	30.00
			H	26.89	5.01	-4.37	27.54	30.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	20.53	5.08	-4.29	21.32	30.00
			H	25.32	5.09	-4.29	26.11	30.00
	1732.5	20175	V	21.25	5.06	-4.30	22.01	30.00
			H	26.07	5.06	-4.30	26.83	30.00
	1745.0	20300	V	21.03	5.04	-4.33	21.74	30.00
			H	25.15	5.04	-4.33	25.87	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	21.20	5.06	-4.30	21.96	30.00
			H	25.43	5.06	-4.30	26.19	30.00
	1732.5	20175	V	21.39	5.04	-4.33	22.09	30.00
			H	25.65	5.04	-4.33	26.35	30.00
	1745.0	20300	V	22.67	5.01	-4.37	23.31	30.00
			H	26.66	5.01	-4.37	27.30	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	20.33	5.08	-4.29	21.12	30.00
			H	25.38	5.08	-4.29	26.18	30.00
	1732.5	20175	V	20.70	5.06	-4.30	21.46	30.00
			H	26.10	5.06	-4.30	26.86	30.00
	1745.0	20300	V	21.14	5.04	-4.33	21.86	30.00
			H	25.40	5.04	-4.33	26.11	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	21.33	5.06	-4.30	22.08	30.00
			H	25.22	5.06	-4.30	25.98	30.00
	1732.5	20175	V	20.26	5.04	-4.33	20.97	30.00
			H	26.00	5.04	-4.33	26.70	30.00
	1745.0	20300	V	22.80	5.01	-4.37	23.45	30.00
			H	26.80	5.01	-4.37	27.45	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 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	22.45	5.80	-5.34	22.91	33.01
			H	27.76	5.80	-5.34	28.22	33.01
	2535.0	21100	V	19.49	5.87	-5.38	19.97	33.01
			H	27.87	5.87	-5.38	28.35	33.01
	2567.5	21425	V	17.84	5.94	-5.43	18.35	33.01
			H	26.73	5.94	-5.43	27.24	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	19.80	5.81	-5.34	20.26	33.01
			H	24.08	5.81	-5.34	24.54	33.01
	2535.0	21100	V	19.46	5.88	-5.39	19.94	33.01
			H	26.34	5.88	-5.39	26.83	33.01
	2567.5	21425	V	18.03	5.95	-5.44	18.54	33.01
			H	26.56	5.95	-5.44	27.07	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	17.58	5.80	-5.34	18.04	33.01
			H	23.96	5.80	-5.34	24.42	33.01
	2535.0	21100	V	19.27	5.87	-5.38	19.75	33.01
			H	26.95	5.87	-5.38	27.43	33.01
	2567.5	21425	V	17.95	5.94	-5.43	18.45	33.01
			H	26.82	5.94	-5.43	27.32	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	18.52	5.81	-5.34	18.98	33.01
			H	24.18	5.81	-5.34	24.64	33.01
	2535.0	21100	V	19.37	5.88	-5.39	19.86	33.01
			H	26.36	5.88	-5.39	26.85	33.01
	2567.5	21425	V	17.67	5.95	-5.44	18.18	33.01
			H	26.66	5.95	-5.44	27.16	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	18.84	5.81	-5.34	19.30	33.01
			H	25.18	5.81	-5.34	25.64	33.01
	2535.0	21100	V	19.33	5.86	-5.38	19.81	33.01
			H	27.13	5.86	-5.38	27.61	33.01
	2565.0	21400	V	15.33	5.93	-5.43	15.83	33.01
			H	26.08	5.93	-5.43	26.58	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	19.43	5.82	-5.35	19.90	33.01
			H	25.31	5.82	-5.35	25.78	33.01
	2535.0	21100	V	19.42	5.88	-5.39	19.91	33.01
			H	26.44	5.88	-5.39	26.93	33.01
	2565.0	21400	V	16.85	5.95	-5.44	17.35	33.01
			H	26.12	5.95	-5.44	26.62	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	18.96	5.80	-5.34	19.42	33.01
			H	25.33	5.81	-5.34	25.79	33.01
	2535.0	21100	V	19.18	5.86	-5.38	19.66	33.01
			H	26.84	5.87	-5.38	27.32	33.01
	2565.0	21400	V	15.29	5.93	-5.43	15.79	33.01
			H	25.81	5.93	-5.43	26.31	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	19.39	5.82	-5.35	19.86	33.01
			H	25.29	5.82	-5.35	25.76	33.01
	2535.0	21100	V	19.45	5.88	-5.39	19.94	33.01
			H	26.33	5.88	-5.39	26.81	33.01
	2565.0	21400	V	17.09	5.95	-5.44	17.60	33.01
			H	26.37	5.95	-5.44	26.88	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	19.07	5.81	-5.34	19.53	33.01
			H	25.46	5.81	-5.34	25.92	33.01
	2535.0	21100	V	19.62	5.86	-5.38	20.10	33.01
			H	26.52	5.86	-5.38	27.00	33.01
	2562.5	21375	V	16.50	5.92	-5.42	17.00	33.01
			H	25.69	5.92	-5.42	26.19	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	18.70	5.83	-5.35	19.17	33.01
			H	25.36	5.83	-5.35	25.83	33.01
	2535.0	21100	V	19.54	5.89	-5.40	20.03	33.01
			H	27.35	5.89	-5.40	27.84	33.01
	2562.5	21375	V	17.12	5.95	-5.44	17.62	33.01
			H	27.01	5.95	-5.44	27.51	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	18.98	5.80	-5.34	19.45	33.01
			H	25.61	5.81	-5.34	26.07	33.01
	2535.0	21100	V	19.42	5.86	-5.38	19.90	33.01
			H	16.45	5.86	-5.38	16.93	33.01
	2562.5	21375	V	16.61	5.92	-5.42	17.10	33.01
			H	25.95	5.92	-5.42	26.45	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	18.67	5.83	-5.35	19.14	33.01
			H	25.31	5.83	-5.35	25.79	33.01
	2535.0	21100	V	19.47	5.89	-5.40	19.96	33.01
			H	27.18	5.89	-5.40	27.67	33.01
	2562.5	21375	V	16.88	5.95	-5.44	17.38	33.01
			H	26.83	5.95	-5.44	27.34	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	19.12	5.80	-5.34	19.58	33.01
			H	25.49	5.81	-5.34	25.96	33.01
	2535.0	21100	V	19.72	5.85	-5.37	20.20	33.01
			H	26.27	5.85	-5.37	26.75	33.01
	2560.0	21350	V	18.40	5.91	-5.41	18.89	33.01
			H	27.04	5.91	-5.41	27.53	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	18.91	5.84	-5.36	19.38	33.01
			H	25.90	5.84	-5.36	26.37	33.01
	2535.0	21100	V	19.30	5.89	-5.40	19.79	33.01
			H	27.33	5.89	-5.40	27.82	33.01
	2560.0	21350	V	18.34	5.91	-5.41	18.83	33.01
			H	26.66	5.95	-5.44	27.17	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	19.14	5.81	-5.34	19.60	33.01
			H	25.54	5.81	-5.34	26.00	33.01
	2535.0	21100	V	19.50	5.85	-5.37	19.98	33.01
			H	26.16	5.85	-5.37	26.64	33.01
	2560.0	21350	V	17.98	5.91	-5.41	18.47	33.01
			H	26.74	5.91	-5.41	27.23	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	18.99	5.84	-5.36	19.46	33.01
			H	25.77	5.84	-5.36	26.25	33.01
	2535.0	21100	V	19.02	5.89	-5.40	19.52	33.01
			H	27.01	5.89	-5.40	27.50	33.01
	2560.0	21350	V	16.72	5.95	-5.44	17.22	33.01
			H	26.37	5.95	-5.44	26.88	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	10.03	3.38	-2.61	10.80	34.77
			H	13.17	3.38	-2.61	13.94	34.77
	707.5	23095	V	10.43	3.37	-2.60	11.19	34.77
			H	13.63	3.37	-2.60	14.39	34.77
	715.3	23173	V	10.07	3.35	-2.61	10.82	34.77
			H	13.80	3.35	-2.61	14.55	34.77
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	9.25	3.39	-2.61	10.03	34.77
			H	12.74	3.39	-2.61	13.52	34.77
	707.5	23095	V	10.42	3.37	-2.60	11.19	34.77
			H	13.68	3.37	-2.60	14.45	34.77
	715.3	23173	V	10.11	3.35	-2.61	10.85	34.77
			H	13.61	3.35	-2.61	14.35	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	10.29	3.38	-2.61	11.07	34.77
			H	13.81	3.38	-2.61	14.58	34.77
	707.5	23095	V	10.65	3.37	-2.60	11.42	34.77
			H	14.77	3.37	-2.60	15.53	34.77
	715.3	23173	V	10.40	3.35	-2.61	11.15	34.77
			H	15.23	3.35	-2.61	15.97	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	10.44	3.39	-2.61	11.21	34.77
			H	14.00	3.39	-2.61	14.78	34.77
	707.5	23095	V	10.57	3.37	-2.60	11.34	34.77
			H	15.29	3.37	-2.60	16.06	34.77
	715.3	23173	V	10.23	3.35	-2.61	10.97	34.77
			H	14.68	3.35	-2.61	15.42	34.77

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	10.13	3.38	-2.61	10.90	34.77
			H	13.33	3.38	-2.61	14.10	34.77
	707.5	23095	V	10.70	3.37	-2.60	11.47	34.77
			H	15.15	3.37	-2.60	15.91	34.77
	714.5	23165	V	9.29	3.36	-2.60	10.04	34.77
			H	13.52	3.35	-2.61	14.26	34.77
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	9.84	3.38	-2.61	10.62	34.77
			H	13.35	3.38	-2.61	14.12	34.77
	707.5	23095	V	9.79	3.37	-2.60	10.55	34.77
			H	13.97	3.37	-2.60	14.74	34.77
	714.5	23165	V	10.00	3.35	-2.61	10.74	34.77
			H	14.34	3.35	-2.61	15.08	34.77
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	10.75	3.38	-2.61	11.53	34.77
			H	13.64	3.38	-2.61	14.41	34.77
	707.5	23095	V	10.77	3.37	-2.60	11.54	34.77
			H	14.90	3.37	-2.60	15.67	34.77
	714.5	23165	V	11.20	3.35	-2.61	11.94	34.77
			H	14.78	3.35	-2.61	15.52	34.77
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	10.97	3.38	-2.61	11.74	34.77
			H	13.52	3.38	-2.61	14.30	34.77
	707.5	23095	V	10.50	3.37	-2.60	11.27	34.77
			H	14.21	3.37	-2.60	14.97	34.77
	714.5	23165	V	10.84	3.35	-2.61	11.58	34.77
			H	14.67	3.35	-2.61	15.41	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	9.58	3.38	-2.61	10.36	34.77
			H	12.86	3.38	-2.61	13.63	34.77
	707.5	23095	V	9.95	3.37	-2.60	10.72	34.77
			H	13.84	3.37	-2.60	14.61	34.77
	713.5	23155	V	8.87	3.36	-2.60	9.63	34.77
			H	13.06	3.35	-2.61	13.80	34.77
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	10.00	3.38	-2.61	10.77	34.77
			H	13.83	3.37	-2.60	14.60	34.77
	707.5	23095	V	9.77	3.37	-2.60	10.54	34.77
			H	13.05	3.37	-2.60	13.82	34.77
	713.5	23155	V	10.37	3.35	-2.61	11.11	34.77
			H	13.54	3.35	-2.61	14.28	34.77
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	10.39	3.38	-2.61	11.17	34.77
			H	13.54	3.38	-2.61	14.31	34.77
	707.5	23095	V	11.49	3.37	-2.60	12.26	34.77
			H	14.13	3.37	-2.60	14.90	34.77
	713.5	23155	V	9.56	3.36	-2.60	10.32	34.77
			H	13.53	3.35	-2.61	14.28	34.77
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	11.10	3.38	-2.61	11.87	34.77
			H	14.07	3.38	-2.61	14.84	34.77
	707.5	23095	V	11.08	3.37	-2.60	11.85	34.77
			H	14.04	3.36	-2.60	14.81	34.77
	713.5	23155	V	10.80	3.35	-2.61	11.54	34.77
			H	14.62	3.35	-2.61	15.36	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	9.97	3.38	-2.61	10.74	34.77
			H	13.19	3.38	-2.61	13.96	34.77
	707.5	23095	V	10.12	3.38	-2.61	10.89	34.77
			H	13.66	3.38	-2.61	14.43	34.77
	711.0	23130	V	10.22	3.37	-2.60	10.99	34.77
			H	12.95	3.37	-2.60	13.72	34.77
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	9.28	3.37	-2.60	10.04	34.77
			H	13.12	3.37	-2.60	13.88	34.77
	707.5	23095	V	8.93	3.36	-2.60	9.69	34.77
			H	12.89	3.35	-2.61	13.63	34.77
	711.0	23130	V	9.96	3.35	-2.61	10.71	34.77
			H	13.90	3.35	-2.61	14.65	34.77
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	10.53	3.38	-2.61	11.30	34.77
			H	13.29	3.38	-2.61	14.06	34.77
	707.5	23095	V	10.87	3.37	-2.60	11.64	34.77
			H	14.38	3.37	-2.60	15.15	34.77
	711.0	23130	V	11.06	3.37	-2.60	11.83	34.77
			H	10.37	3.37	-2.60	11.14	34.77
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	14.13	3.37	-2.60	14.90	34.77
			H	9.60	3.36	-2.60	10.36	34.77
	707.5	23095	V	14.09	3.37	-2.60	14.86	34.77
			H	10.94	3.35	-2.61	11.68	34.77
	711.0	23130	V	13.43	3.35	-2.61	14.18	34.77
			H	14.04	3.35	-2.61	14.78	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	10.13	3.37	-2.60	10.89	34.77
			H	13.82	3.37	-2.60	14.59	34.77
	710.0	23790	V	9.74	3.37	-2.60	10.51	34.77
			H	13.97	3.37	-2.60	14.74	34.77
	713.5	23825	V	8.04	3.36	-2.60	8.81	34.77
			H	12.54	3.35	-2.61	13.28	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	9.17	3.37	-2.60	9.93	34.77
			H	13.32	3.37	-2.60	14.08	34.77
	710.0	23790	V	8.04	3.36	-2.60	8.80	34.77
			H	12.54	3.35	-2.61	13.29	34.77
	713.5	23825	V	9.12	3.35	-2.61	9.86	34.77
			H	13.66	3.35	-2.61	14.40	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	11.00	3.37	-2.60	11.76	34.77
			H	15.05	3.37	-2.60	15.81	34.77
	710.0	23790	V	11.10	3.37	-2.60	11.87	34.77
			H	15.04	3.37	-2.60	15.80	34.77
	713.5	23825	V	9.39	3.36	-2.60	10.15	34.77
			H	13.79	3.35	-2.61	14.54	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	10.36	3.37	-2.60	11.13	34.77
			H	14.43	3.37	-2.60	15.20	34.77
	710.0	23790	V	8.55	3.36	-2.60	9.31	34.77
			H	13.04	3.35	-2.61	13.78	34.77
	713.5	23825	V	10.36	3.35	-2.61	11.10	34.77
			H	14.68	3.35	-2.61	15.42	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	9.97	3.37	-2.60	10.74	34.77
			H	13.92	3.37	-2.60	14.69	34.77
	710.0	23790	V	10.77	3.37	-2.60	11.54	34.77
			H	14.65	3.37	-2.60	15.42	34.77
	711.0	23800	V	10.27	3.37	-2.60	11.04	34.77
			H	13.19	3.37	-2.60	13.96	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	9.29	3.36	-2.60	10.05	34.77
			H	13.73	3.36	-2.60	14.48	34.77
	710.0	23790	V	9.37	3.35	-2.61	10.12	34.77
			H	13.90	3.36	-2.61	14.65	34.77
	711.0	23800	V	9.15	3.35	-2.61	9.90	34.77
			H	13.64	3.35	-2.61	14.38	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	11.08	3.37	-2.60	11.85	34.77
			H	14.86	3.37	-2.60	15.63	34.77
	710.0	23790	V	10.82	3.37	-2.60	11.59	34.77
			H	15.04	3.37	-2.60	15.81	34.77
	711.0	23800	V	10.54	3.37	-2.60	11.31	34.77
			H	14.46	3.37	-2.60	15.23	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	10.42	3.36	-2.60	11.18	34.77
			H	13.85	3.36	-2.60	14.60	34.77
	710.0	23790	V	10.38	3.35	-2.61	11.13	34.77
			H	14.22	3.36	-2.61	14.97	34.77
	711.0	23800	V	10.37	3.35	-2.61	11.11	34.77
			H	14.92	3.35	-2.61	15.67	34.77

Remark :

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

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7.6. Measurement Result: (Average) –using option of average 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	9.08	3.45	-2.94	9.59	40.60
			H	16.50	3.45	-2.94	17.01	40.60
	836.6	190	V	11.40	3.46	-2.97	11.89	40.60
			H	16.76	3.46	-2.97	17.25	40.60
	848.8	251	V	11.00	3.47	-3.01	11.46	40.60
			H	17.03	3.47	-3.01	17.49	40.60

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	10.27	3.45	-2.94	10.78	40.60
			H	16.21	3.45	-2.94	16.72	40.60
	836.6	190	V	8.35	3.46	-2.97	8.84	40.60
			H	16.55	3.46	-2.97	17.04	40.60
	848.8	251	V	7.91	3.47	-3.01	8.37	40.60
			H	16.38	3.47	-3.01	16.84	40.60

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	7.99	3.45	-2.94	8.50	40.60
			H	14.41	3.45	-2.94	14.92	40.60
	836.6	190	V	6.56	3.46	-2.97	7.05	40.60
			H	13.65	3.46	-2.97	14.14	40.60
	848.8	251	V	3.71	3.47	-3.01	4.17	40.60
			H	12.70	3.47	-3.01	13.16	40.60

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	20.95	4.84	-4.49	21.30	33.01
			H	24.34	4.84	-4.49	24.69	33.01
	1880.0	661	V	21.41	4.79	-4.53	21.67	33.01
			H	25.55	4.79	-4.53	25.81	33.01
	1909.8	810	V	21.46	4.74	-4.57	21.63	33.01
			H	24.49	4.74	-4.57	24.66	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	21.38	4.84	-4.49	21.73	33.01
			H	25.26	4.84	-4.49	25.61	33.01
	1880.0	661	V	19.24	4.79	-4.53	19.50	33.01
			H	22.57	4.79	-4.53	22.83	33.01
	1909.8	810	V	21.83	4.74	-4.57	22.00	33.01
			H	24.82	4.74	-4.57	24.99	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	22.17	4.84	-4.49	22.52	33.01
			H	24.87	4.84	-4.49	25.22	33.01
	1880.0	661	V	20.18	4.79	-4.53	20.44	33.01
			H	24.75	4.79	-4.53	25.01	33.01
	1909.8	810	V	21.97	4.74	-4.57	22.14	33.01
			H	21.50	4.74	-4.57	21.67	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
WCDMA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	22.22	4.84	-4.49	22.57	33.01
			H	25.51	4.84	-4.49	25.86	33.01
	1880.0	9400	V	20.14	4.79	-4.53	20.40	33.01
			H	27.40	4.79	-4.53	27.66	33.01
	1907.6	9538	V	22.10	4.75	-4.56	22.29	33.01
			H	24.48	4.75	-4.56	24.67	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSDPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	22.19	4.84	-4.49	22.54	33.01
			H	25.93	4.84	-4.49	26.28	33.01
	1880.0	9400	V	22.47	4.79	-4.53	22.73	33.01
			H	24.97	4.79	-4.53	25.23	33.01
	1907.6	9538	V	21.37	4.75	-4.56	21.56	33.01
			H	25.57	4.75	-4.56	25.76	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSUPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	21.89	4.84	-4.49	22.24	33.01
			H	25.00	4.84	-4.49	25.35	33.01
	1880.0	9400	V	20.90	4.79	-4.53	21.16	33.01
			H	25.61	4.79	-4.53	25.87	33.01
	1907.6	9538	V	22.39	4.75	-4.56	22.58	33.01
			H	23.44	4.75	-4.56	23.63	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
WCDMA B4	MHz		V/H	dBm	dB	dB	dBm	dBm
	1712.4	1312	V	6.39	5.09	-4.29	7.19	30.00
			H	4.40	5.09	-4.29	5.20	30.00
	1732.6	1413	V	6.81	5.05	-4.31	7.55	30.00
			H	5.49	5.05	-4.31	6.23	30.00
	1752.6	1513	V	8.45	5.01	-4.37	9.09	30.00
			H	6.94	5.01	-4.37	7.58	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
HSDPA B4	1712.4	1312	V	6.31	5.09	-4.29	7.11	30.00
			H	4.48	5.08	-4.29	5.27	30.00
	1732.6	1413	V	7.25	5.05	-4.31	7.99	30.00
			H	5.80	5.05	-4.31	6.54	30.00
	1752.6	1513	V	7.83	5.01	-4.37	8.47	30.00
			H	6.68	5.01	-4.37	7.32	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	5.95	5.08	-4.29	6.74	30.00
			H	5.23	5.09	-4.29	6.03	30.00
	1732.6	1413	V	7.08	5.05	-4.31	7.82	30.00
			H	6.04	5.05	-4.31	6.78	30.00
	1752.6	1513	V	7.81	5.01	-4.37	8.45	30.00
			H	7.04	5.01	-4.37	7.68	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	8.63	3.46	-2.94	9.15	40.60
			H	14.22	3.46	-2.95	14.73	40.60
	836.6	4183	V	6.52	3.46	-2.98	7.00	40.60
			H	14.49	3.46	-2.98	14.97	40.60
	846.6	4233	V	5.19	3.47	-3.00	5.66	40.60
			H	15.82	3.47	-3.00	16.29	40.60

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	6.99	3.46	-2.94	7.51	40.60
			H	14.10	3.46	-2.95	14.61	40.60
	836.6	4183	V	5.95	3.46	-2.98	6.43	40.60
			H	13.61	3.46	-2.98	14.09	40.60
	846.6	4233	V	2.81	3.47	-3.00	3.28	40.60
			H	14.28	3.47	-3.00	14.75	40.60

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	5.34	3.46	-2.95	5.85	40.60
			H	13.98	3.46	-2.94	14.50	40.60
	836.6	4183	V	5.44	3.46	-2.98	5.92	40.60
			H	12.22	3.46	-2.97	12.71	40.60
	846.6	4233	V	4.64	3.47	-3.00	5.11	40.60
			H	13.50	3.47	-3.00	13.97	40.60

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	20.38	4.84	-4.49	20.73	33.01
			H	23.89	4.84	-4.49	24.24	33.01
	1880.0	18900	V	19.56	4.80	-4.52	19.84	33.01
			H	21.66	4.80	-4.52	21.94	33.01
	1909.3	19193	V	17.29	4.75	-4.56	17.48	33.01
			H	20.04	4.75	-4.56	20.23	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	20.55	4.84	-4.49	20.90	33.01
			H	22.47	4.84	-4.49	22.82	33.01
	1880.0	18900	V	19.34	4.80	-4.52	19.62	33.01
			H	21.79	4.80	-4.52	22.07	33.01
	1909.3	19193	V	17.34	4.75	-4.56	17.53	33.01
			H	20.26	4.75	-4.56	20.45	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	19.79	4.84	-4.49	20.14	33.01
			H	22.89	4.84	-4.49	23.24	33.01
	1880.0	18900	V	19.60	4.80	-4.52	19.88	33.01
			H	20.74	4.80	-4.52	21.02	33.01
	1909.3	19193	V	16.88	4.75	-4.56	17.07	33.01
			H	20.08	4.75	-4.56	20.27	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	20.35	4.84	-4.49	20.70	33.01
			H	22.29	4.84	-4.49	22.64	33.01
	1880.0	18900	V	19.17	4.80	-4.52	19.45	33.01
			H	21.90	4.80	-4.52	22.18	33.01
	1909.3	19193	V	17.27	4.75	-4.56	17.46	33.01
			H	20.62	4.75	-4.56	20.81	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	19.38	4.84	-4.49	19.73	33.01
			H	24.07	4.84	-4.49	24.42	33.01
	1880.0	18900	V	19.65	4.80	-4.52	19.93	33.01
			H	22.63	4.80	-4.52	22.91	33.01
	1908.5	19185	V	17.84	4.75	-4.56	18.03	33.01
			H	20.62	4.75	-4.56	20.81	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	20.23	4.84	-4.49	20.58	33.01
			H	25.15	4.84	-4.49	25.50	33.01
	1880.0	18900	V	19.10	4.79	-4.53	19.36	33.01
			H	22.13	4.79	-4.53	22.39	33.01
	1908.5	19185	V	17.54	4.75	-4.56	17.73	33.01
			H	21.35	4.75	-4.56	21.54	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	19.66	4.84	-4.49	20.01	33.01
			H	21.60	4.84	-4.49	21.95	33.01
	1880.0	18900	V	19.64	4.80	-4.52	19.92	33.01
			H	22.21	4.80	-4.52	22.49	33.01
	1908.5	19185	V	17.90	4.75	-4.56	18.09	33.01
			H	20.65	4.75	-4.56	20.84	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	19.87	4.84	-4.49	20.22	33.01
			H	22.32	4.84	-4.49	22.67	33.01
	1880.0	18900	V	18.55	4.79	-4.53	18.81	33.01
			H	22.30	4.79	-4.53	22.56	33.01
	1908.5	19185	V	17.87	4.75	-4.56	18.06	33.01
			H	20.92	4.75	-4.56	21.11	33.01

Remark :

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	19.27	4.84	-4.49	19.62	33.01
			H	25.21	4.84	-4.49	25.56	33.01
	1880.0	18900	V	19.21	4.80	-4.52	19.49	33.01
			H	21.49	4.80	-4.52	21.77	33.01
	1907.5	19175	V	17.91	4.75	-4.56	18.10	33.01
			H	21.17	4.75	-4.56	21.36	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	19.89	4.84	-4.49	20.24	33.01
			H	24.25	4.84	-4.49	24.60	33.01
	1880.0	18900	V	18.01	4.79	-4.53	18.27	33.01
			H	22.04	4.79	-4.53	22.30	33.01
	1907.5	19175	V	17.42	4.75	-4.56	17.61	33.01
			H	20.17	4.75	-4.56	20.36	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	19.81	4.84	-4.49	20.16	33.01
			H	24.98	4.84	-4.49	25.33	33.01
	1880.0	18900	V	18.96	4.80	-4.52	19.24	33.01
			H	22.03	4.80	-4.52	22.31	33.01
	1907.5	19175	V	16.99	4.75	-4.56	17.18	33.01
			H	21.33	4.75	-4.56	21.52	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	19.47	4.84	-4.49	19.82	33.01
			H	24.73	4.84	-4.49	25.08	33.01
	1880.0	18900	V	18.70	4.79	-4.53	18.96	33.01
			H	21.98	4.79	-4.53	22.24	33.01
	1907.5	19175	V	16.97	4.75	-4.56	17.16	33.01
			H	20.12	4.75	-4.56	20.31	33.01

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	19.52	4.84	-4.49	19.87	33.01
			H	24.37	4.84	-4.49	24.72	33.01
	1880.0	18900	V	18.42	4.80	-4.52	18.70	33.01
			H	21.30	4.80	-4.52	21.58	33.01
	1905.0	19150	V	17.33	4.76	-4.55	17.54	33.01
			H	22.38	4.76	-4.55	22.59	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	19.87	4.83	-4.50	20.20	33.01
			H	23.34	4.83	-4.50	23.67	33.01
	1880.0	18900	V	17.46	4.79	-4.53	17.72	33.01
			H	21.51	4.79	-4.53	21.77	33.01
	1905.0	19150	V	17.05	4.75	-4.56	17.24	33.01
			H	20.00	4.75	-4.56	20.19	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	19.33	4.84	-4.49	19.68	33.01
			H	25.06	4.84	-4.49	25.41	33.01
	1880.0	18900	V	18.98	4.80	-4.52	19.26	33.01
			H	21.23	4.80	-4.52	21.51	33.01
	1905.0	19150	V	18.34	4.76	-4.55	18.55	33.01
			H	22.58	4.76	-4.55	22.79	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	20.17	4.83	-4.50	20.50	33.01
			H	23.15	4.83	-4.50	23.48	33.01
	1880.0	18900	V	18.00	4.79	-4.53	18.26	33.01
			H	21.85	4.79	-4.53	22.11	33.01
	1905.0	19150	V	16.61	4.75	-4.56	16.80	33.01
			H	20.27	4.75	-4.56	20.46	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	20.50	4.84	-4.49	20.85	33.01
			H	23.85	4.84	-4.49	24.20	33.01
	1880.0	18900	V	19.09	4.81	-4.52	19.38	33.01
			H	21.72	4.81	-4.51	22.02	33.01
	1902.5	19125	V	17.97	4.77	-4.54	18.20	33.01
			H	24.13	4.77	-4.54	24.36	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	20.28	4.82	-4.50	20.60	33.01
			H	22.11	4.82	-4.50	22.43	33.01
	1880.0	18900	V	18.31	4.79	-4.53	18.57	33.01
			H	22.47	4.79	-4.53	22.73	33.01
	1902.5	19125	V	16.86	4.75	-4.56	17.05	33.01
			H	19.90	4.75	-4.56	20.09	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	20.39	4.84	-4.49	20.74	33.01
			H	22.19	4.84	-4.49	22.54	33.01
	1880.0	18900	V	17.44	4.81	-4.51	17.74	33.01
			H	21.67	4.81	-4.51	21.97	33.01
	1902.5	19125	V	16.21	4.77	-4.54	16.44	33.01
			H	23.55	4.77	-4.54	23.78	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	20.27	4.82	-4.50	20.59	33.01
			H	22.81	4.82	-4.50	23.13	33.01
	1880.0	18900	V	18.22	4.79	-4.53	18.48	33.01
			H	23.11	4.79	-4.53	23.37	33.01
	1902.5	19125	V	17.10	4.75	-4.56	17.29	33.01
			H	20.62	4.75	-4.56	20.81	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	19.66	4.84	-4.49	20.01	33.01
			H	24.31	4.84	-4.49	24.66	33.01
	1880.0	18900	V	18.31	4.81	-4.52	18.60	33.01
			H	22.23	4.81	-4.52	22.52	33.01
	1900.0	19100	V	17.96	4.77	-4.54	18.19	33.01
			H	23.23	4.77	-4.54	23.46	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	19.01	4.82	-4.51	19.32	33.01
			H	22.78	4.82	-4.51	23.09	33.01
	1880.0	18900	V	17.96	4.78	-4.54	18.20	33.01
			H	23.56	4.78	-4.54	23.80	33.01
	1900.0	19100	V	15.97	4.75	-4.56	16.16	33.01
			H	19.29	4.75	-4.56	19.48	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	19.94	4.84	-4.49	20.29	33.01
			H	23.92	4.84	-4.49	24.27	33.01
	1880.0	18900	V	17.92	4.81	-4.52	18.21	33.01
			H	21.88	4.81	-4.52	22.17	33.01
	1900.0	19100	V	17.94	4.77	-4.54	18.17	33.01
			H	23.16	4.77	-4.54	23.39	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	19.87	4.81	-4.51	20.17	33.01
			H	21.56	4.82	-4.51	21.87	33.01
	1880.0	18900	V	18.82	4.78	-4.54	19.06	33.01
			H	23.24	4.78	-4.54	23.48	33.01
	1900.0	19100	V	15.31	4.75	-4.56	15.50	33.01
			H	20.20	4.75	-4.56	20.39	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	17.46	5.09	-4.29	18.26	30.00
			H	22.58	5.09	-4.29	23.38	30.00
	1732.5	20175	V	17.64	5.05	-4.31	18.38	30.00
			H	21.93	5.05	-4.31	22.67	30.00
	1754.3	20393	V	19.43	5.01	-4.37	20.07	30.00
			H	23.34	5.01	-4.37	23.98	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	17.24	5.09	-4.29	18.04	30.00
			H	22.14	5.09	-4.29	22.94	30.00
	1732.5	20175	V	18.18	5.05	-4.31	18.92	30.00
			H	22.24	5.05	-4.31	22.98	30.00
	1754.3	20393	V	19.59	5.01	-4.37	20.23	30.00
			H	23.02	5.01	-4.37	23.66	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	16.86	5.09	-4.29	17.66	30.00
			H	22.49	5.09	-4.29	23.29	30.00
	1732.5	20175	V	18.12	5.05	-4.31	18.86	30.00
			H	22.42	5.05	-4.31	23.16	30.00
	1754.3	20393	V	19.43	5.01	-4.37	20.07	30.00
			H	23.60	5.01	-4.37	24.24	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	17.63	5.09	-4.29	18.43	30.00
			H	22.32	5.09	-4.29	23.12	30.00
	1732.5	20175	V	18.20	5.05	-4.31	18.94	30.00
			H	22.33	5.05	-4.31	23.07	30.00
	1754.3	20393	V	19.41	5.01	-4.37	20.05	30.00
			H	23.29	5.01	-4.37	23.93	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	17.75	5.09	-4.29	18.55	30.00
			H	22.51	5.09	-4.29	23.31	30.00
	1732.5	20175	V	18.54	5.05	-4.31	19.28	30.00
			H	21.67	5.05	-4.31	22.41	30.00
	1753.5	20385	V	19.49	5.02	-4.36	20.15	30.00
			H	24.03	5.02	-4.36	24.69	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	16.91	5.09	-4.29	17.71	30.00
			H	22.94	5.09	-4.29	23.74	30.00
	1732.5	20175	V	17.78	5.05	-4.31	18.52	30.00
			H	22.42	5.05	-4.31	23.16	30.00
	1753.5	20385	V	19.58	5.01	-4.37	20.22	30.00
			H	23.70	5.01	-4.37	24.34	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	17.15	5.09	-4.29	17.95	30.00
			H	22.23	5.09	-4.29	23.03	30.00
	1732.5	20175	V	18.10	5.05	-4.31	18.84	30.00
			H	21.97	5.05	-4.31	22.71	30.00
	1753.5	20385	V	20.81	5.02	-4.36	21.47	30.00
			H	23.80	5.02	-4.36	24.46	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	18.26	5.09	-4.29	19.06	30.00
			H	22.91	5.09	-4.29	23.71	30.00
	1732.5	20175	V	17.78	5.05	-4.31	18.52	30.00
			H	22.10	5.05	-4.31	22.84	30.00
	1753.5	20385	V	20.14	5.01	-4.37	20.78	30.00
			H	23.93	5.01	-4.37	24.57	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	17.61	5.09	-4.29	18.41	30.00
			H	22.00	5.09	-4.29	22.80	30.00
	1732.5	20175	V	17.96	5.06	-4.30	18.72	30.00
			H	22.40	5.06	-4.30	23.16	30.00
	1752.5	20375	V	20.55	5.02	-4.36	21.21	30.00
			H	24.66	5.02	-4.36	25.32	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	17.94	5.08	-4.29	18.73	30.00
			H	22.82	5.08	-4.29	23.61	30.00
	1732.5	20175	V	17.86	5.05	-4.31	18.60	30.00
			H	23.07	5.05	-4.31	23.81	30.00
	1752.5	20375	V	19.67	5.01	-4.37	20.31	30.00
			H	23.86	5.01	-4.37	24.50	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	17.79	5.09	-4.29	18.59	30.00
			H	22.18	5.09	-4.29	22.98	30.00
	1732.5	20175	V	17.97	5.06	-4.30	18.73	30.00
			H	22.53	5.06	-4.30	23.29	30.00
	1752.5	20375	V	20.20	5.02	-4.36	20.86	30.00
			H	24.34	5.02	-4.36	25.00	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	18.87	5.08	-4.29	19.66	30.00
			H	23.06	5.08	-4.29	23.85	30.00
	1732.5	20175	V	18.09	5.05	-4.31	18.83	30.00
			H	22.33	5.05	-4.31	23.07	30.00
	1752.5	20375	V	19.18	5.01	-4.37	19.82	30.00
			H	23.11	5.01	-4.37	23.75	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	17.00	5.09	-4.29	17.80	30.00
			H	21.33	5.09	-4.29	22.13	30.00
	1732.5	20175	V	17.40	5.05	-4.31	18.14	30.00
			H	22.72	5.05	-4.31	23.46	30.00
	1750.0	20350	V	19.12	5.02	-4.35	19.79	30.00
			H	23.22	5.02	-4.35	23.89	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	18.31	5.08	-4.30	19.09	30.00
			H	22.67	5.08	-4.29	23.46	30.00
	1732.5	20175	V	17.65	5.04	-4.32	18.37	30.00
			H	21.70	5.04	-4.32	22.42	30.00
	1750.0	20350	V	20.31	5.01	-4.37	20.95	30.00
			H	23.24	5.01	-4.37	23.88	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	16.82	5.09	-4.29	17.62	30.00
			H	21.64	5.09	-4.29	22.44	30.00
	1732.5	20175	V	17.94	5.05	-4.31	18.68	30.00
			H	22.00	5.05	-4.31	22.74	30.00
	1750.0	20350	V	19.62	5.02	-4.35	20.29	30.00
			H	22.96	5.02	-4.35	23.63	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	18.19	5.08	-4.29	18.98	30.00
			H	22.65	5.08	-4.29	23.44	30.00
	1732.5	20175	V	17.98	5.04	-4.32	18.70	30.00
			H	22.91	5.04	-4.32	23.63	30.00
	1750.0	20350	V	19.50	5.01	-4.37	20.14	30.00
			H	23.82	5.01	-4.37	24.46	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	17.40	5.09	-4.29	18.20	30.00
			H	22.59	5.09	-4.29	23.39	30.00
	1732.5	20175	V	17.73	5.06	-4.30	18.49	30.00
			H	22.30	5.06	-4.30	23.06	30.00
	1747.5	20325	V	18.70	5.03	-4.34	19.39	30.00
			H	23.23	5.03	-4.34	23.92	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	17.81	5.07	-4.30	18.58	30.00
			H	22.46	5.07	-4.30	23.23	30.00
	1732.5	20175	V	17.81	5.04	-4.33	18.52	30.00
			H	22.67	5.04	-4.33	23.38	30.00
	1747.5	20325	V	19.24	5.01	-4.37	19.88	30.00
			H	23.79	5.01	-4.37	24.43	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	17.44	5.09	-4.29	18.24	30.00
			H	22.39	5.09	-4.29	23.19	30.00
	1732.5	20175	V	17.51	5.06	-4.30	18.27	30.00
			H	22.68	5.06	-4.30	23.44	30.00
	1747.5	20325	V	18.26	5.03	-4.34	18.95	30.00
			H	23.13	5.03	-4.34	23.82	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	17.14	5.07	-4.30	17.91	30.00
			H	22.86	5.07	-4.30	23.63	30.00
	1732.5	20175	V	17.53	5.04	-4.33	18.24	30.00
			H	22.91	5.04	-4.33	23.62	30.00
	1747.5	20325	V	19.55	5.01	-4.37	20.19	30.00
			H	22.97	5.01	-4.37	23.61	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: 20M QPSK RB: 1,0	1720.0	20050	V	17.22	5.08	-4.29	18.01	30.00
			H	22.00	5.09	-4.29	22.80	30.00
	1732.5	20175	V	17.78	5.06	-4.30	18.54	30.00
			H	22.40	5.06	-4.30	23.16	30.00
	1745.0	20300	V	17.77	5.04	-4.33	18.48	30.00
			H	21.72	5.04	-4.33	22.43	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	17.79	5.06	-4.30	18.55	30.00
			H	22.30	5.06	-4.30	23.06	30.00
	1732.5	20175	V	18.20	5.04	-4.33	18.91	30.00
			H	21.93	5.04	-4.33	22.64	30.00
	1745.0	20300	V	18.88	5.01	-4.37	19.52	30.00
			H	23.15	5.01	-4.37	23.79	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	16.36	5.08	-4.29	17.15	30.00
			H	22.24	5.08	-4.29	23.03	30.00
	1732.5	20175	V	16.73	5.06	-4.30	17.49	30.00
			H	22.34	5.06	-4.30	23.10	30.00
	1745.0	20300	V	17.31	5.04	-4.33	18.02	30.00
			H	21.87	5.04	-4.33	22.58	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	17.69	5.06	-4.30	18.45	30.00
			H	21.35	5.06	-4.30	22.11	30.00
	1732.5	20175	V	16.98	5.04	-4.33	17.69	30.00
			H	22.97	5.04	-4.33	23.68	30.00
	1745.0	20300	V	19.32	5.01	-4.37	19.96	30.00
			H	23.71	5.01	-4.37	24.35	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 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	19.28	5.80	-5.34	19.74	33.01
			H	23.84	5.80	-5.34	24.30	33.01
	2535.0	21100	V	16.10	5.87	-5.38	16.59	33.01
			H	24.61	5.87	-5.38	25.10	33.01
	2567.5	21425	V	14.06	5.94	-5.43	14.57	33.01
			H	22.94	5.94	-5.43	23.45	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	15.87	5.81	-5.34	16.34	33.01
			H	20.15	5.81	-5.34	20.62	33.01
	2535.0	21100	V	16.19	5.88	-5.39	16.68	33.01
			H	22.83	5.88	-5.39	23.32	33.01
	2567.5	21425	V	14.90	5.95	-5.44	15.41	33.01
			H	22.94	5.95	-5.44	23.45	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	13.95	5.80	-5.34	14.41	33.01
			H	20.64	5.80	-5.34	21.10	33.01
	2535.0	21100	V	15.87	5.87	-5.38	16.36	33.01
			H	23.06	5.87	-5.38	23.55	33.01
	2567.5	21425	V	14.39	5.94	-5.43	14.90	33.01
			H	22.85	5.94	-5.43	23.36	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	14.67	5.81	-5.34	15.14	33.01
			H	20.76	5.81	-5.34	21.23	33.01
	2535.0	21100	V	16.10	5.88	-5.39	16.59	33.01
			H	23.36	5.88	-5.39	23.85	33.01
	2567.5	21425	V	14.37	5.95	-5.44	14.88	33.01
			H	23.24	5.95	-5.44	23.75	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	15.67	5.81	-5.34	16.14	33.01
			H	21.99	5.81	-5.34	22.46	33.01
	2535.0	21100	V	15.40	5.86	-5.38	15.88	33.01
			H	23.47	5.86	-5.38	23.95	33.01
	2565.0	21400	V	12.31	5.93	-5.43	12.81	33.01
			H	22.70	5.93	-5.43	23.20	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	16.04	5.82	-5.35	16.51	33.01
			H	21.64	5.82	-5.35	22.11	33.01
	2535.0	21100	V	15.81	5.88	-5.39	16.30	33.01
			H	23.15	5.88	-5.39	23.64	33.01
	2565.0	21400	V	13.17	5.95	-5.44	13.68	33.01
			H	22.16	5.95	-5.44	22.67	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	15.82	5.80	-5.34	16.28	33.01
			H	21.44	5.81	-5.34	21.91	33.01
	2535.0	21100	V	16.00	5.86	-5.38	16.48	33.01
			H	23.48	5.87	-5.38	23.97	33.01
	2565.0	21400	V	11.62	5.93	-5.43	12.12	33.01
			H	22.76	5.93	-5.43	23.26	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	16.03	5.82	-5.35	16.50	33.01
			H	21.67	5.82	-5.35	22.14	33.01
	2535.0	21100	V	16.24	5.88	-5.39	16.73	33.01
			H	23.19	5.88	-5.39	23.68	33.01
	2565.0	21400	V	13.48	5.95	-5.44	13.99	33.01
			H	23.01	5.95	-5.44	23.52	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	15.92	5.81	-5.34	16.39	33.01
			H	21.82	5.81	-5.34	22.29	33.01
	2535.0	21100	V	16.25	5.86	-5.38	16.73	33.01
			H	23.32	5.86	-5.38	23.80	33.01
	2562.5	21375	V	13.02	5.92	-5.42	13.52	33.01
			H	22.66	5.92	-5.42	23.16	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	15.02	5.83	-5.35	15.50	33.01
			H	22.36	5.83	-5.35	22.84	33.01
	2535.0	21100	V	15.64	5.89	-5.40	16.13	33.01
			H	24.07	5.89	-5.40	24.56	33.01
	2562.5	21375	V	13.98	5.95	-5.44	14.49	33.01
			H	23.33	5.95	-5.44	23.84	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	15.46	5.80	-5.34	15.92	33.01
			H	22.40	5.81	-5.34	22.87	33.01
	2535.0	21100	V	15.52	5.86	-5.38	16.00	33.01
			H	13.26	5.86	-5.38	13.74	33.01
	2562.5	21375	V	13.59	5.92	-5.42	14.09	33.01
			H	22.85	5.92	-5.42	23.35	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	15.03	5.83	-5.35	15.51	33.01
			H	22.26	5.83	-5.35	22.74	33.01
	2535.0	21100	V	15.78	5.89	-5.40	16.27	33.01
			H	23.58	5.89	-5.40	24.07	33.01
	2562.5	21375	V	13.53	5.95	-5.44	14.04	33.01
			H	23.18	5.95	-5.44	23.69	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	15.93	5.80	-5.34	16.39	33.01
			H	21.63	5.81	-5.34	22.10	33.01
	2535.0	21100	V	16.23	5.85	-5.37	16.71	33.01
			H	23.22	5.85	-5.37	23.70	33.01
	2560.0	21350	V	15.35	5.91	-5.41	15.85	33.01
			H	23.69	5.91	-5.41	24.19	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	15.16	5.84	-5.36	15.64	33.01
			H	22.11	5.84	-5.36	22.59	33.01
	2535.0	21100	V	15.87	5.89	-5.40	16.36	33.01
			H	23.65	5.89	-5.40	24.14	33.01
	2560.0	21350	V	15.19	5.91	-5.41	15.69	33.01
			H	23.13	5.95	-5.44	23.64	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	16.14	5.81	-5.34	16.61	33.01
			H	22.41	5.81	-5.34	22.88	33.01
	2535.0	21100	V	15.87	5.85	-5.37	16.35	33.01
			H	23.06	5.85	-5.37	23.54	33.01
	2560.0	21350	V	14.86	5.91	-5.41	15.36	33.01
			H	23.47	5.91	-5.41	23.97	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	15.44	5.84	-5.36	15.92	33.01
			H	21.93	5.84	-5.36	22.41	33.01
	2535.0	21100	V	15.61	5.89	-5.40	16.10	33.01
			H	23.60	5.89	-5.40	24.09	33.01
	2560.0	21350	V	13.02	5.95	-5.44	13.53	33.01
			H	23.02	5.95	-5.44	23.53	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	6.69	3.38	-2.61	7.46	37.00
			H	10.16	3.38	-2.61	10.93	37.00
	707.5	23095	V	6.52	3.37	-2.60	7.29	37.00
			H	10.10	3.37	-2.60	10.87	37.00
	715.3	23173	V	6.12	3.35	-2.61	6.86	37.00
			H	10.64	3.35	-2.61	11.38	37.00
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	5.87	3.39	-2.61	6.65	37.00
			H	9.08	3.39	-2.61	9.86	37.00
	707.5	23095	V	7.30	3.37	-2.60	8.07	37.00
			H	10.67	3.37	-2.60	11.44	37.00
	715.3	23173	V	6.71	3.35	-2.61	7.45	37.00
			H	9.64	3.35	-2.61	10.38	37.00
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	7.21	3.38	-2.61	7.98	37.00
			H	10.40	3.38	-2.61	11.17	37.00
	707.5	23095	V	7.57	3.37	-2.60	8.34	37.00
			H	11.17	3.37	-2.60	11.94	37.00
	715.3	23173	V	6.46	3.35	-2.61	7.20	37.00
			H	11.70	3.35	-2.61	12.44	37.00
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	7.18	3.39	-2.61	7.96	37.00
			H	10.07	3.39	-2.61	10.85	37.00
	707.5	23095	V	6.76	3.37	-2.60	7.53	37.00
			H	11.41	3.37	-2.60	12.18	37.00
	715.3	23173	V	6.79	3.35	-2.61	7.53	37.00
			H	11.53	3.35	-2.61	12.27	37.00

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 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	6.81	3.38	-2.61	7.58	37.00
			H	9.85	3.38	-2.61	10.62	37.00
	707.5	23095	V	7.14	3.37	-2.60	7.91	37.00
			H	11.79	3.37	-2.60	12.56	37.00
	714.5	23165	V	5.79	3.36	-2.60	6.55	37.00
			H	10.33	3.35	-2.61	11.07	37.00
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	6.04	3.38	-2.61	6.81	37.00
			H	10.06	3.38	-2.61	10.83	37.00
	707.5	23095	V	5.89	3.37	-2.60	6.66	37.00
			H	10.01	3.37	-2.60	10.78	37.00
	714.5	23165	V	6.21	3.35	-2.61	6.95	37.00
			H	10.63	3.35	-2.61	11.37	37.00
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	7.28	3.38	-2.61	8.05	37.00
			H	9.71	3.38	-2.61	10.48	37.00
	707.5	23095	V	7.74	3.37	-2.60	8.51	37.00
			H	11.36	3.37	-2.60	12.13	37.00
	714.5	23165	V	8.12	3.35	-2.61	8.86	37.00
			H	11.47	3.35	-2.61	12.21	37.00
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	7.53	3.38	-2.61	8.30	37.00
			H	10.34	3.38	-2.61	11.11	37.00
	707.5	23095	V	7.05	3.37	-2.60	7.82	37.00
			H	10.25	3.37	-2.60	11.02	37.00
	714.5	23165	V	7.68	3.35	-2.61	8.42	37.00
			H	11.59	3.35	-2.61	12.33	37.00

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 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	5.85	3.38	-2.61	6.62	37.00
			H	9.28	3.38	-2.61	10.05	37.00
	707.5	23095	V	6.89	3.37	-2.60	7.66	37.00
			H	10.44	3.37	-2.60	11.21	37.00
	713.5	23155	V	5.45	3.36	-2.60	6.21	37.00
			H	9.21	3.35	-2.61	9.95	37.00
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	6.36	3.38	-2.61	7.13	37.00
			H	10.34	3.37	-2.60	11.11	37.00
	707.5	23095	V	5.87	3.37	-2.60	6.64	37.00
			H	9.79	3.37	-2.60	10.56	37.00
	713.5	23155	V	6.80	3.35	-2.61	7.54	37.00
			H	9.75	3.35	-2.61	10.49	37.00
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	6.68	3.38	-2.61	7.45	37.00
			H	9.65	3.38	-2.61	10.42	37.00
	707.5	23095	V	8.01	3.37	-2.60	8.78	37.00
			H	10.72	3.37	-2.60	11.49	37.00
	713.5	23155	V	6.37	3.36	-2.60	7.13	37.00
			H	9.61	3.35	-2.61	10.35	37.00
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	7.25	3.38	-2.61	8.02	37.00
			H	10.13	3.38	-2.61	10.90	37.00
	707.5	23095	V	8.08	3.37	-2.60	8.85	37.00
			H	10.14	3.36	-2.60	10.90	37.00
	713.5	23155	V	7.41	3.35	-2.61	8.15	37.00
			H	10.82	3.35	-2.61	11.56	37.00

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 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	6.88	3.38	-2.61	7.65	37.00
			H	10.11	3.38	-2.61	10.88	37.00
	707.5	23095	V	6.90	3.38	-2.61	7.67	37.00
			H	10.07	3.38	-2.61	10.84	37.00
	711.0	23130	V	7.02	3.37	-2.60	7.79	37.00
			H	9.67	3.37	-2.60	10.44	37.00
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	5.40	3.37	-2.60	6.17	37.00
			H	9.13	3.37	-2.60	9.90	37.00
	707.5	23095	V	5.04	3.36	-2.60	5.80	37.00
			H	9.06	3.35	-2.61	9.80	37.00
	711.0	23130	V	6.54	3.35	-2.61	7.28	37.00
			H	10.53	3.35	-2.61	11.27	37.00
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	6.58	3.38	-2.61	7.35	37.00
			H	9.97	3.38	-2.61	10.74	37.00
	707.5	23095	V	7.55	3.37	-2.60	8.32	37.00
			H	11.13	3.37	-2.60	11.90	37.00
	711.0	23130	V	7.12	3.37	-2.60	7.89	37.00
			H	7.30	3.37	-2.60	8.07	37.00
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	11.07	3.37	-2.60	11.84	37.00
			H	5.92	3.36	-2.60	6.68	37.00
	707.5	23095	V	10.18	3.37	-2.60	10.95	37.00
			H	7.63	3.35	-2.61	8.37	37.00
	711.0	23130	V	9.52	3.35	-2.61	10.26	37.00
			H	10.66	3.35	-2.61	11.40	37.00

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 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	7.08	3.37	-2.60	7.85	37.00
			H	10.28	3.37	-2.60	11.05	37.00
	710.0	23790	V	6.39	3.37	-2.60	7.16	37.00
			H	10.64	3.37	-2.60	11.41	37.00
	713.5	23825	V	4.56	3.36	-2.60	5.32	37.00
			H	9.46	3.35	-2.61	10.20	37.00
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	5.28	3.37	-2.60	6.05	37.00
			H	9.98	3.37	-2.60	10.75	37.00
	710.0	23790	V	4.84	3.36	-2.60	5.60	37.00
			H	9.36	3.35	-2.61	10.10	37.00
	713.5	23825	V	5.92	3.35	-2.61	6.66	37.00
			H	10.54	3.35	-2.61	11.28	37.00
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	7.67	3.37	-2.60	8.44	37.00
			H	11.66	3.37	-2.60	12.43	37.00
	710.0	23790	V	7.86	3.37	-2.60	8.63	37.00
			H	11.48	3.37	-2.60	12.25	37.00
	713.5	23825	V	5.41	3.36	-2.60	6.17	37.00
			H	10.46	3.35	-2.61	11.20	37.00
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	6.80	3.37	-2.60	7.57	37.00
			H	10.79	3.37	-2.60	11.56	37.00
	710.0	23790	V	5.51	3.36	-2.60	6.27	37.00
			H	9.63	3.35	-2.61	10.37	37.00
	713.5	23825	V	6.37	3.35	-2.61	7.11	37.00
			H	10.98	3.35	-2.61	11.72	37.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	6.29	3.37	-2.60	7.06	37.00
			H	10.52	3.37	-2.60	11.29	37.00
	710.0	23790	V	7.01	3.37	-2.60	7.78	37.00
			H	10.87	3.37	-2.60	11.64	37.00
	711.0	23800	V	6.45	3.37	-2.60	7.22	37.00
			H	9.28	3.37	-2.60	10.05	37.00
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	5.31	3.36	-2.60	6.07	37.00
			H	9.92	3.36	-2.60	10.68	37.00
	710.0	23790	V	5.97	3.35	-2.61	6.71	37.00
			H	9.95	3.36	-2.61	10.70	37.00
	711.0	23800	V	5.81	3.35	-2.61	6.55	37.00
			H	9.99	3.35	-2.61	10.73	37.00
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	7.93	3.37	-2.60	8.70	37.00
			H	11.57	3.37	-2.60	12.34	37.00
	710.0	23790	V	6.99	3.37	-2.60	7.76	37.00
			H	11.93	3.37	-2.60	12.70	37.00
	711.0	23800	V	7.35	3.37	-2.60	8.12	37.00
			H	10.96	3.37	-2.60	11.73	37.00
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	6.46	3.36	-2.60	7.22	37.00
			H	10.80	3.36	-2.60	11.56	37.00
	710.0	23790	V	7.06	3.35	-2.61	7.80	37.00
			H	10.83	3.36	-2.61	11.58	37.00
	711.0	23800	V	7.32	3.35	-2.61	8.06	37.00
			H	11.28	3.35	-2.61	12.02	37.00

Remark :

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

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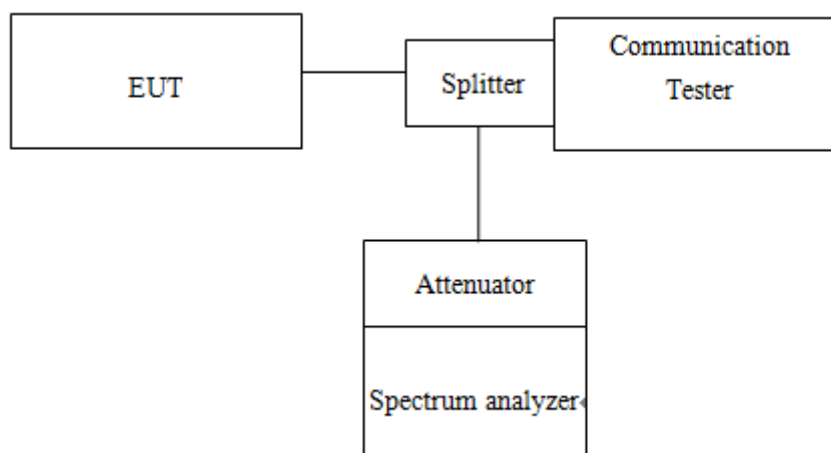
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

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

8.2. Test Set-up



8.3. Measurement Procedure

99% & 26dB Bandwidth with detector peak

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%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, 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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8.4. Measurement Equipment Used

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

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8.5. Measurement Result

99% Bandwidth (*Detector Peak*)

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	243.62	243.17	247.76
836.60	190	246.07	243.35	242.43
848.80	251	243.90	242.73	245.21

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	243.77	245.54	243.69
1880.00	661	246.09	248.30	241.57
1909.80	810	244.24	241.98	238.24

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1489	4.1563	4.1451
1880.00	9400	4.1750	4.1510	4.1720
1909.80	9538	4.1610	4.1566	4.1513

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	4.1578	4.1557	4.1622
1880.0	9400	4.1460	4.1481	4.1632
1907.6	9538	4.1432	4.1591	4.1604

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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	4.1473	4.1430	4.1326
836.60	4183	4.1489	4.1446	4.1439
846.60	4233	4.1552	4.1456	4.1437

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	1.0978	1.0960	1851.5	18615	2.7043	2.7125
1880.0	18900	1.1004	1.0975	1880.0	18900	2.7089	2.7171
1909.3	19193	1.0911	1.0920	1908.5	19185	2.7072	2.7083

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	4.4993	4.5021	1855.0	18650	8.9588	8.9428
1880.0	18900	4.5018	4.5068	1880.0	18900	8.9703	8.9560
1907.5	19175	4.4952	4.4949	1905.0	19150	8.9859	8.9778

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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	13.4241	13.4658	1860.0	18700	17.8855	17.8551
1880.0	18900	13.4282	13.4685	1880.0	18900	17.9019	17.9695
1902.5	19125	13.4430	13.4728	1900.0	19100	17.9563	17.9182

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	1.0991	1.1019	1711.5	19965	2.7111	2.7055
1732.5	20175	1.0999	1.1022	1732.5	20175	2.7041	2.7017
1754.3	20393	1.0999	1.0928	1753.5	20385	2.6979	2.7138

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	4.5091	4.5008	1715.0	20000	8.9836	8.9711
1732.5	20175	4.5110	4.4997	1732.5	20175	8.9652	8.9760
1752.5	20375	4.4998	4.4977	1750.0	20350	8.9773	8.9723

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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	13.4836	13.5010	1720.0	20050	17.9175	17.9223
1732.5	20175	13.4601	13.4225	1732.5	20175	17.8798	17.9242
1747.5	20325	13.4790	13.4507	1745.0	20300	17.9285	17.9539

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	4.5055	4.5080	2505.0	20800	8.9834	8.9714
2535.0	21100	4.5006	4.4998	2535.0	21100	8.9817	8.9638
2567.5	21425	4.4945	4.5171	2565.0	21400	8.9883	8.9492

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	13.4438	13.4582	2510.0	20850	17.9071	17.9349
2535.0	21100	13.4410	13.4711	2535.0	21100	17.8789	17.9541
2562.5	21375	13.4503	13.4263	2560.0	21350	17.8702	17.8937

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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	1.9072	1.0957	700.5	23025	2.7010	2.7095
707.5	23095	1.1000	1.0970	707.5	23095	2.7048	2.7204
715.3	23173	1.9063	1.0969	714.5	23165	2.7147	2.7096

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	4.5164	4.4905	704.0	23060	9.0059	9.0120
707.5	23095	4.5162	4.5030	707.5	23095	8.9954	8.9825
713.5	23155	4.5031	4.5037	711.0	23130	8.9381	8.9027

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	4.5269	4.5239	709.0	23780	8.9544	8.9640
710.0	23790	4.4972	4.4944	710.0	23790	8.9165	8.9182
713.5	23825	4.5122	4.4947	711.0	23780	8.9025	8.9057

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26dB Bandwidth

Frequency (MHz)	CH	26dB Band-width (KHz)	26dB Band-width (KHz)	26dB Band-width (KHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	316.3	320.1	316.5
836.60	190	321.6	321.7	317.2
848.80	251	315.9	316.5	312.0

Frequency (MHz)	CH	26dB Band-width (KHz)	26dB Band-width (KHz)	26dB Band-width (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	318.7	317.8	315.1
1880.00	661	322.9	323.6	305.5
1909.80	810	318.7	319.0	307.1

Frequency (MHz)	CH	26dB Band-width (MHz)	26dB Band-width (MHz)	26dB Band-width (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.704	4.704	4.683
1880.00	9400	4.723	4.687	4.665
1909.80	9538	4.726	4.696	4.709

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No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 134 號

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Frequency (MHz)	CH	26dB Band-width (MHz)	26dB Band-width (MHz)	26dB Band-width (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	4.712	4.695	4.689
1880.0	9400	4.721	4.700	4.688
1907.6	9538	4.701	4.715	4.709

Frequency (MHz)	CH	26dB Band-width (MHz)	26dB Band-width (MHz)	26dB Band-width (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.752	4.697	4.700
836.60	4183	4.724	4.687	4.692
846.60	4233	4.737	4.694	4.699

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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	1.274	1.291	1851.5	18615	2.976	3.013
1880.0	18900	1.273	1.282	1880.0	18900	2.964	2.987
1909.3	19193	1.317	1.258	1908.5	19185	2.986	2.962

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	5.019	4.965	1855.0	18650	9.830	9.832
1880.0	18900	4.966	4.928	1880.0	18900	9.864	9.809
1907.5	19175	4.987	4.963	1905.0	19150	9.720	9.709

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	14.505	14.671	1860.0	18700	19.408	19.260
1880.0	18900	14.542	14.581	1880.0	18900	19.342	19.266
1902.5	19125	14.603	14.646	1900.0	19100	19.185	19.489

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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	1.282	1.310	1711.5	19965	2.968	3.010
1732.5	20175	1.277	1.272	1732.5	20175	2.978	3.004
1754.3	20393	1.277	1.297	1753.5	20385	2.959	2.994

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	4.949	5.020	1715.0	20000	9.821	9.687
1732.5	20175	5.004	5.042	1732.5	20175	9.811	9.736
1752.5	20375	4.927	4.969	1750.0	20350	9.866	9.826

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	14.716	14.653	1720.0	20050	19.444	19.236
1732.5	20175	14.558	14.632	1732.5	20175	19.295	19.369
1747.5	20325	14.574	14.574	1745.0	20300	19.190	19.352

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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	5.007	5.031	2505.0	20800	9.783	9.733
2535.0	21100	5.033	5.008	2535.0	21100	9.775	9.795
2567.5	21425	4.947	4.916	2565.0	21400	9.698	9.788

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	14.740	14.615	2510.0	20850	19.306	19.306
2535.0	21100	14.521	14.766	2535.0	21100	19.416	19.409
2562.5	21375	14.750	14.538	2560.0	21350	19.151	19.211

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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	1.300	1.279	700.5	23025	3.011	2.986
707.5	23095	1.276	1.280	707.5	23095	2.960	2.982
715.3	23173	1.277	1.267	714.5	23165	2.998	2.950

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	4.982	5.021	704.0	23060	9.677	9.883
707.5	23095	4.975	5.027	707.5	23095	9.637	9.814
713.5	23155	5.001	4.936	711.0	23130	9.663	9.561

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	5.049	4.937	709.0	23780	9.738	9.760
710.0	23790	4.933	4.990	710.0	23790	9.562	9.699
713.5	23825	4.989	4.909	711.0	23780	9.649	9.617

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99% Bandwidth (Detector sample)

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	243.52	240.84	245.64
836.60	190	244.51	241.27	244.10
848.80	251	245.20	245.94	245.23

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	246.78	241.96	244.58
1880.00	661	244.88	245.10	244.40
1909.80	810	243.89	244.09	245.71

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.2078	4.1562	4.2168
1880.00	9400	4.1616	4.1554	4.1647
1909.80	9538	4.2151	4.1601	4.1774

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	4.1940	4.1140	4.1392
1880.0	9400	4.2254	4.1864	4.2152
1907.6	9538	4.1758	4.1303	4.1033

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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	4.2407	4.1463	4.1207
836.60	4183	4.1662	4.1593	4.2044
846.60	4233	4.1213	4.2077	4.1653

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	1.0716	1.0631	1851.5	18615	2.6663	2.6844
1880.0	18900	1.0878	1.0609	1880.0	18900	2.7005	2.7025
1909.3	19193	1.0702	1.0859	1908.5	19185	2.6804	2.6997

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	4.4522	4.4437	1855.0	18650	8.9087	8.8886
1880.0	18900	4.4045	4.3844	1880.0	18900	8.7694	8.9364
1907.5	19175	4.3944	4.5241	1905.0	19150	8.9300	8.7699

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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	13.4150	13.0946	1860.0	18700	17.9406	17.6892
1880.0	18900	13.4463	13.3172	1880.0	18900	17.7854	17.8437
1902.5	19125	13.5362	13.5811	1900.0	19100	17.8738	17.9745

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	1.0717	1.0695	1711.5	19965	2.6837	2.6774
1732.5	20175	1.0979	1.0737	1732.5	20175	2.6700	2.6676
1754.3	20393	1.0920	1.0759	1753.5	20385	2.6570	2.6711

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	4.4954	4.3991	1715.0	20000	8.8496	8.9147
1732.5	20175	4.5235	4.4237	1732.5	20175	8.8004	8.8705
1752.5	20375	4.5536	4.4167	1750.0	20350	8.9035	8.8385

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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	13.1576	13.3155	1720.0	20050	17.8659	17.7158
1732.5	20175	13.5191	13.4489	1732.5	20175	17.8724	17.8435
1747.5	20325	13.3023	13.1957	1745.0	20300	17.9452	17.7842

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	4.5012	4.4852	2505.0	20800	8.8697	8.9279
2535.0	21100	4.4369	4.4647	2535.0	21100	8.9111	8.8000
2567.5	21425	4.4285	4.4890	2565.0	21400	9.0148	9.0109

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	13.2646	13.3409	2510.0	20850	17.8636	17.9108
2535.0	21100	13.4455	13.3412	2535.0	21100	17.8898	17.7714
2562.5	21375	13.4199	13.3162	2560.0	21350	17.9340	17.8343

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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	1.0641	1.0784	700.5	23025	2.6514	2.6793
707.5	23095	1.0890	1.0717	707.5	23095	2.7146	2.6357
715.3	23173	1.0910	1.0525	714.5	23165	2.6551	2.6752

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	4.8919	4.4582	704.0	23060	8.9384	8.9280
707.5	23095	4.4460	4.4151	707.5	23095	8.9596	8.9631
713.5	23155	4.4507	4.4181	711.0	23130	8.8405	8.8069

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	4.4549	4.4447	709.0	23780	8.8473	8.8578
710.0	23790	4.5024	4.4688	710.0	23790	8.8030	8.8997
713.5	23825	4.4567	4.5105	711.0	23780	8.9951	8.9365

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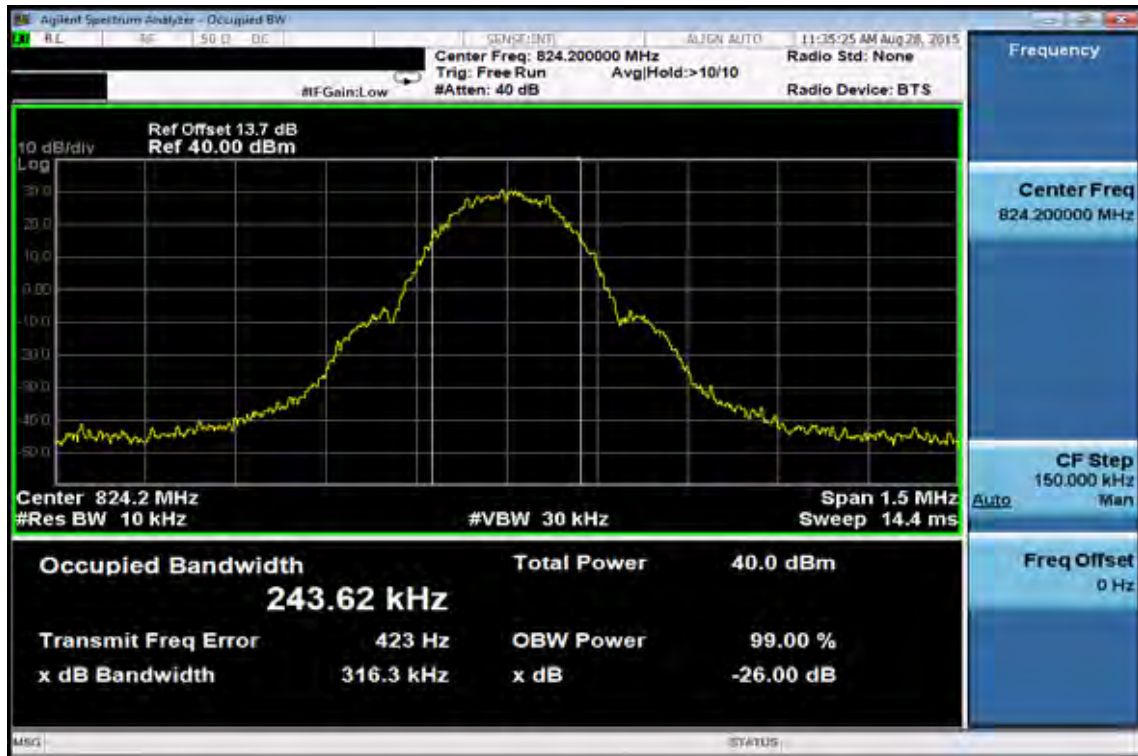
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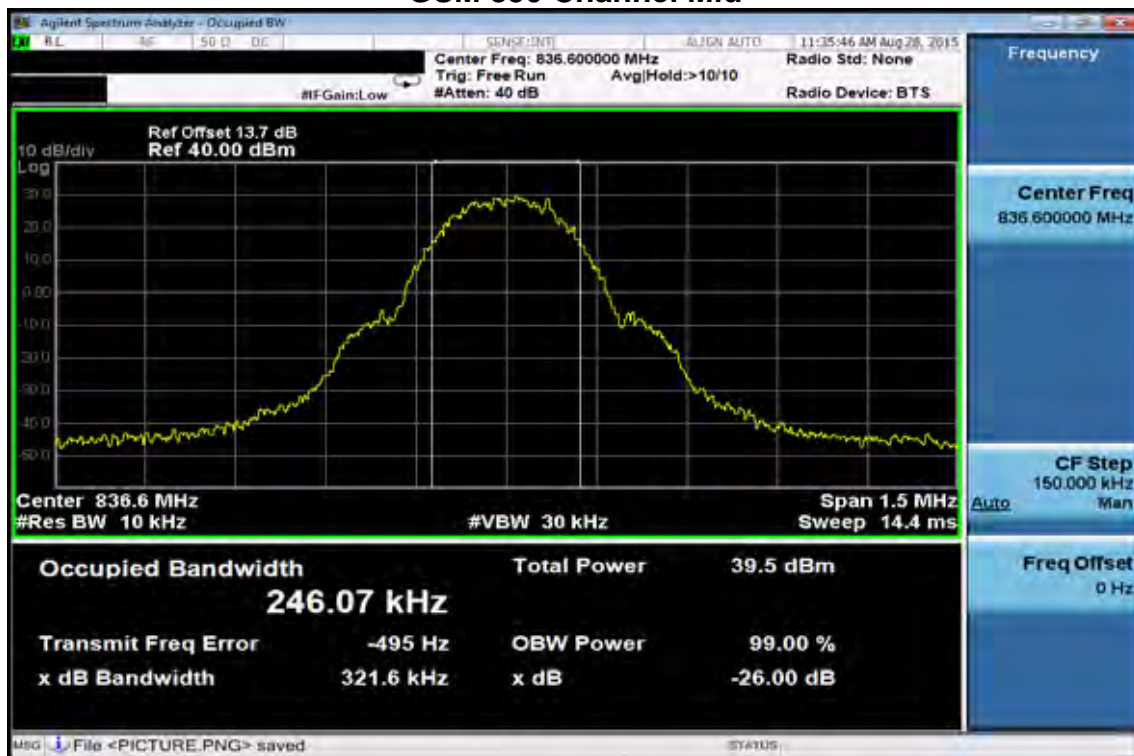
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99% & 26dB Bandwidth Test Data (Detector Peak)

GSM 850 Channel Low



GSM 850 Channel Mid



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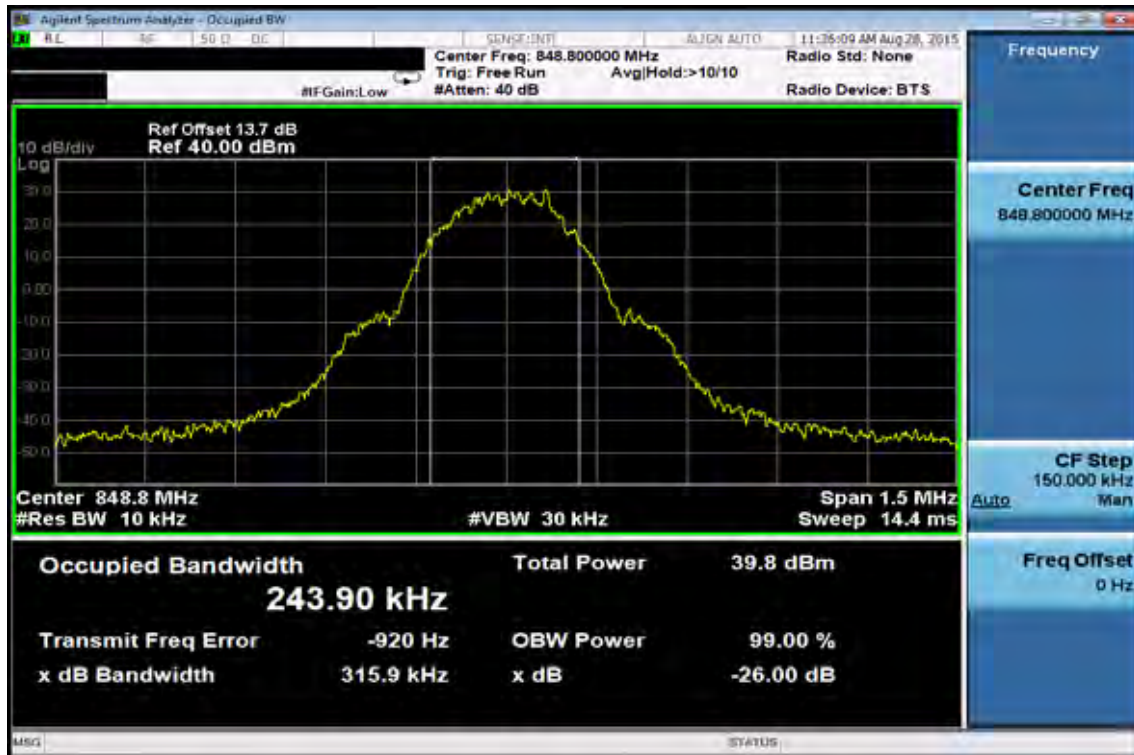
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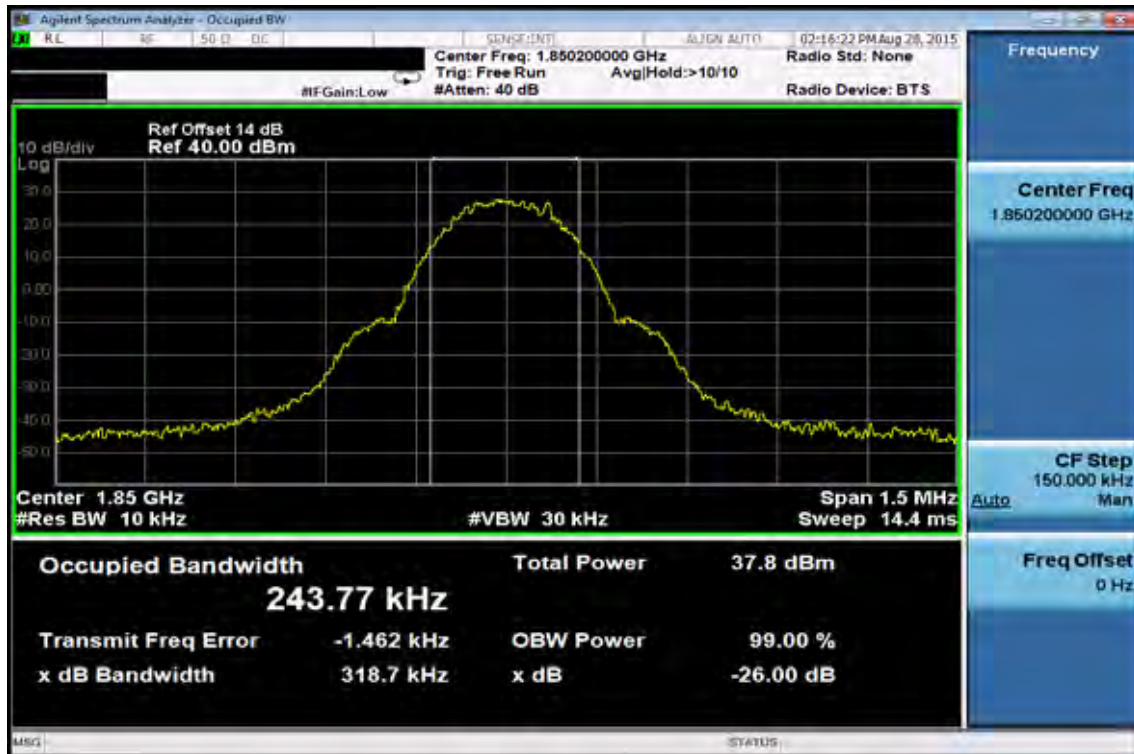
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GSM 850 Channel High



GSM 1900 Channel Low



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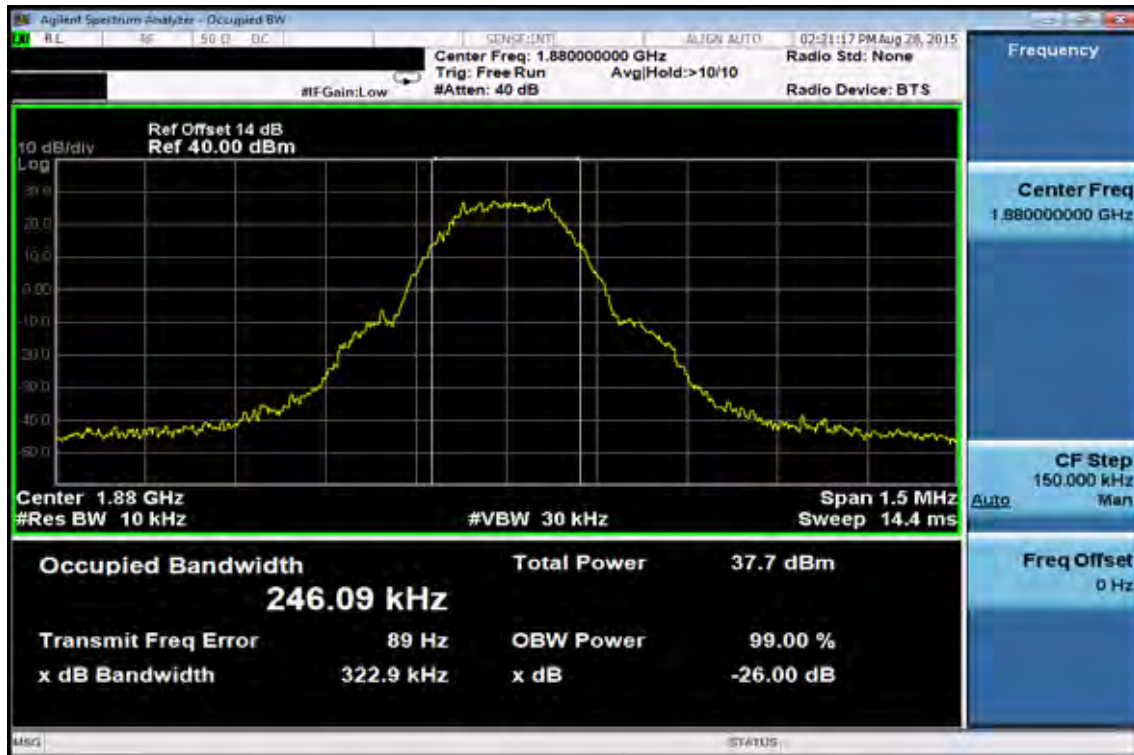
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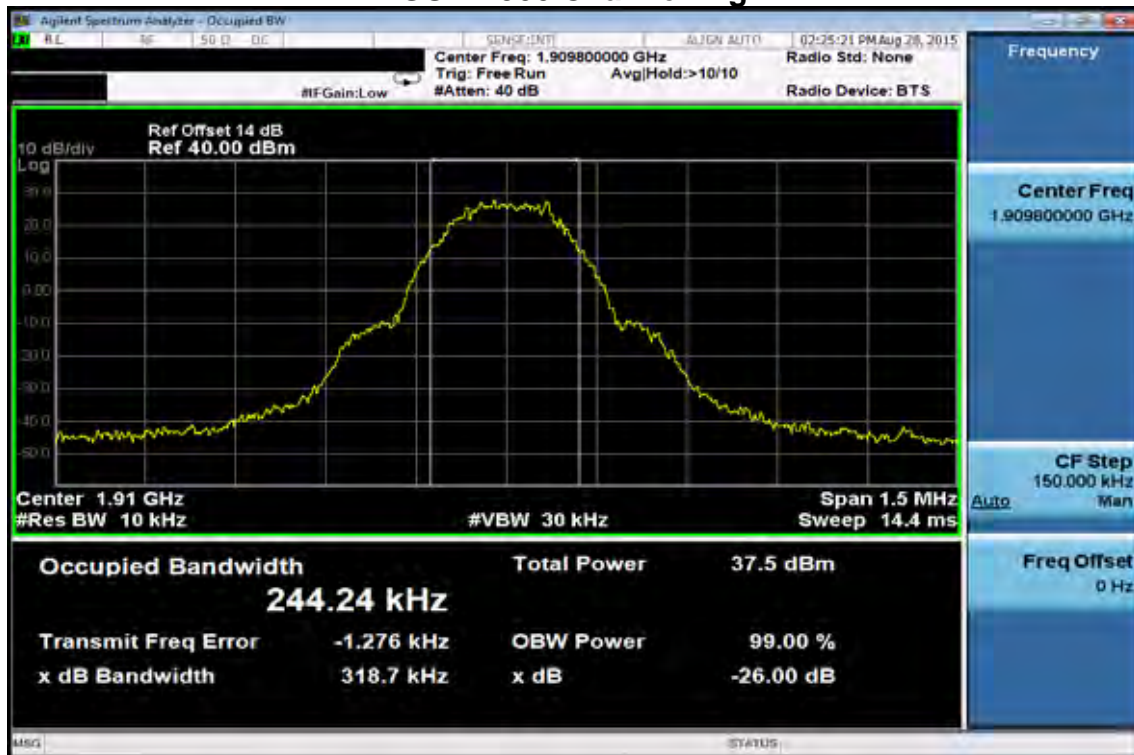
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GSM 1900 Channel Mid



GSM 1900 Channel High



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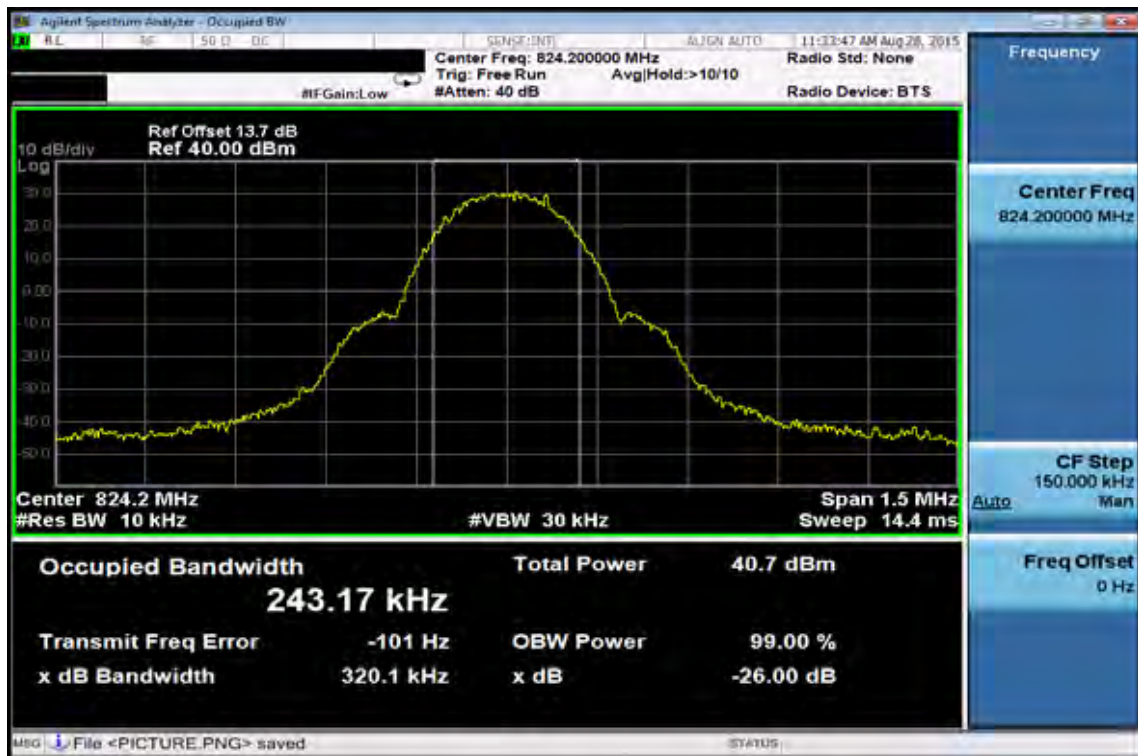
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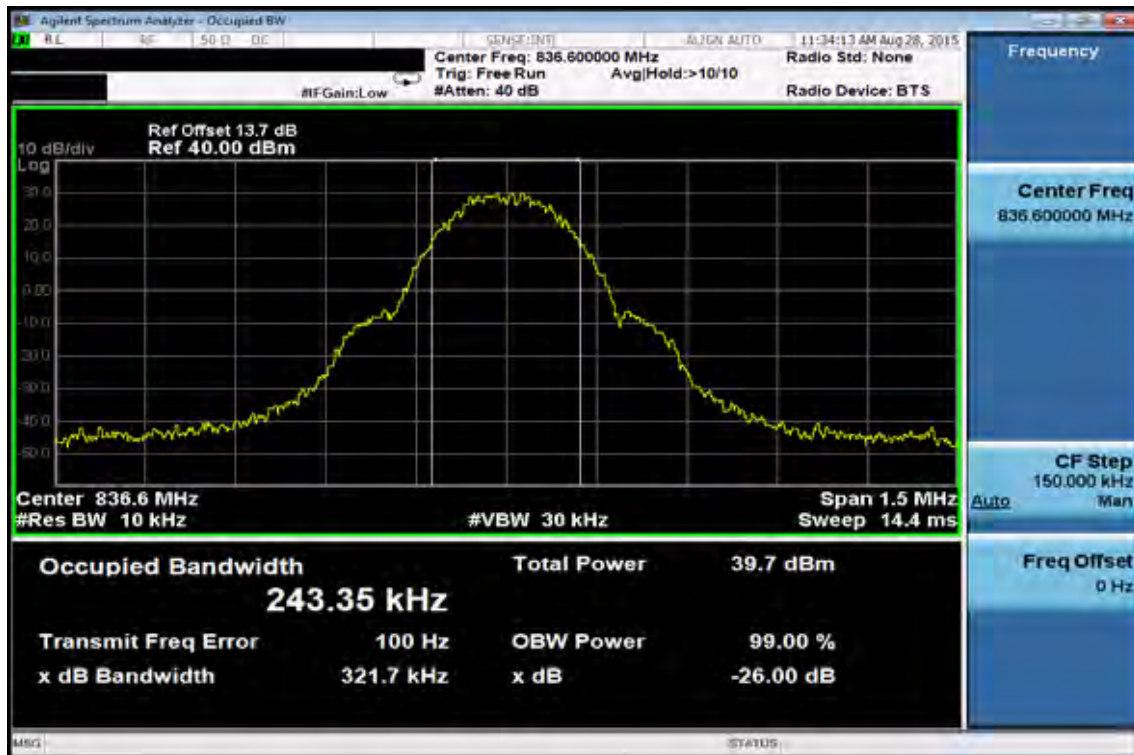
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GPRS 850 Channel Low



GPRS 850 Channel Mid



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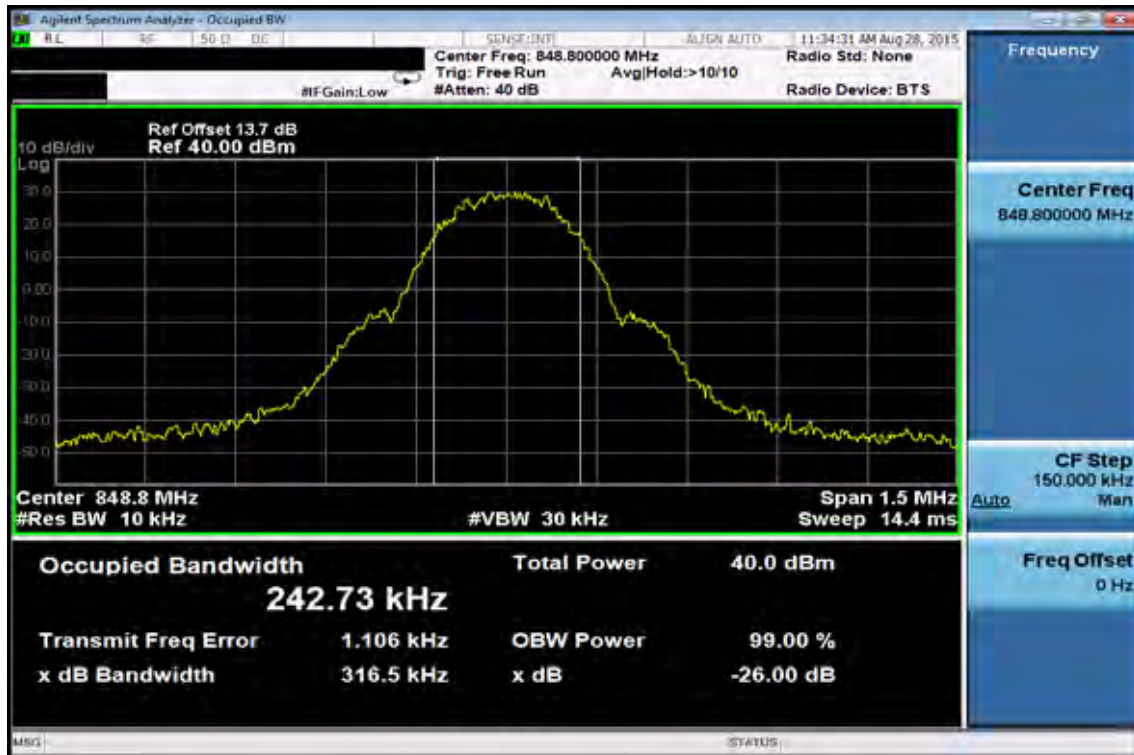
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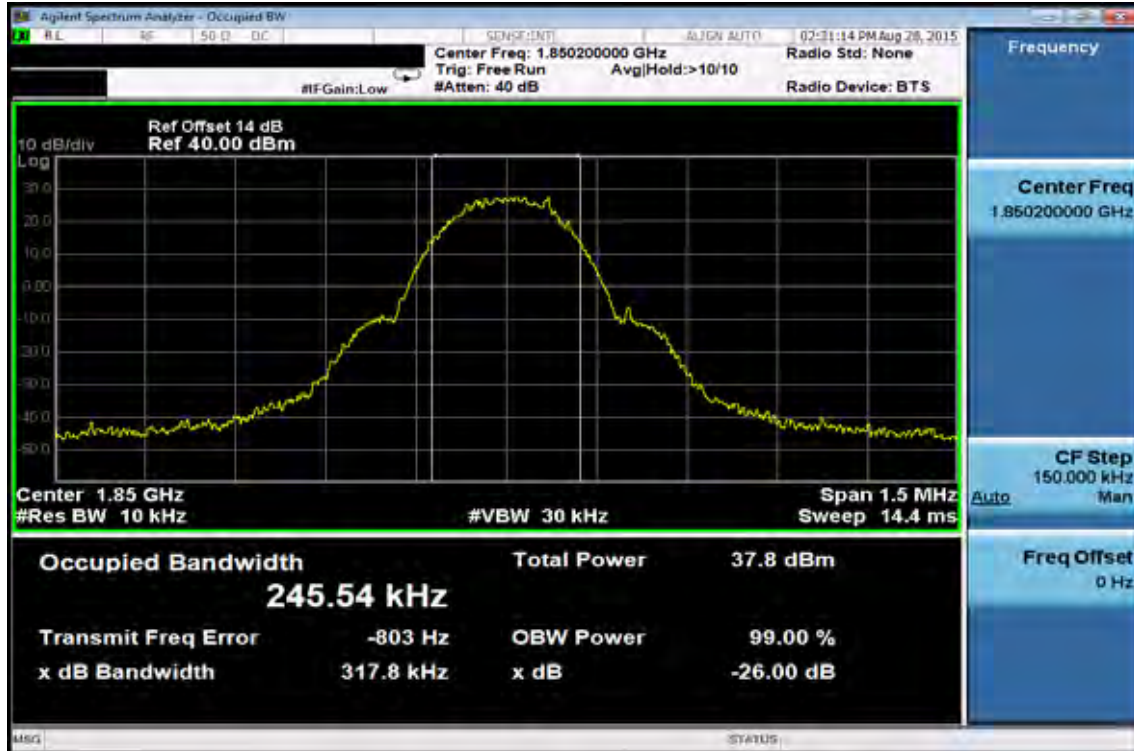
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GPRS 850 Channel High



GPRS 1900 Channel Low



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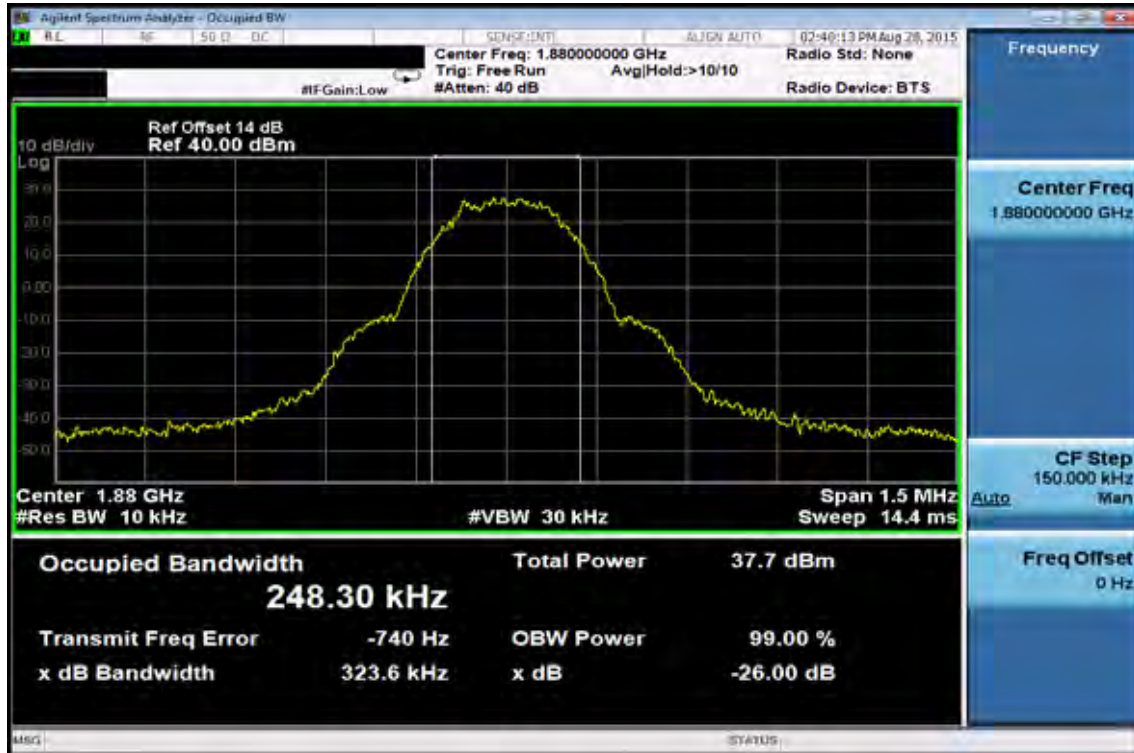
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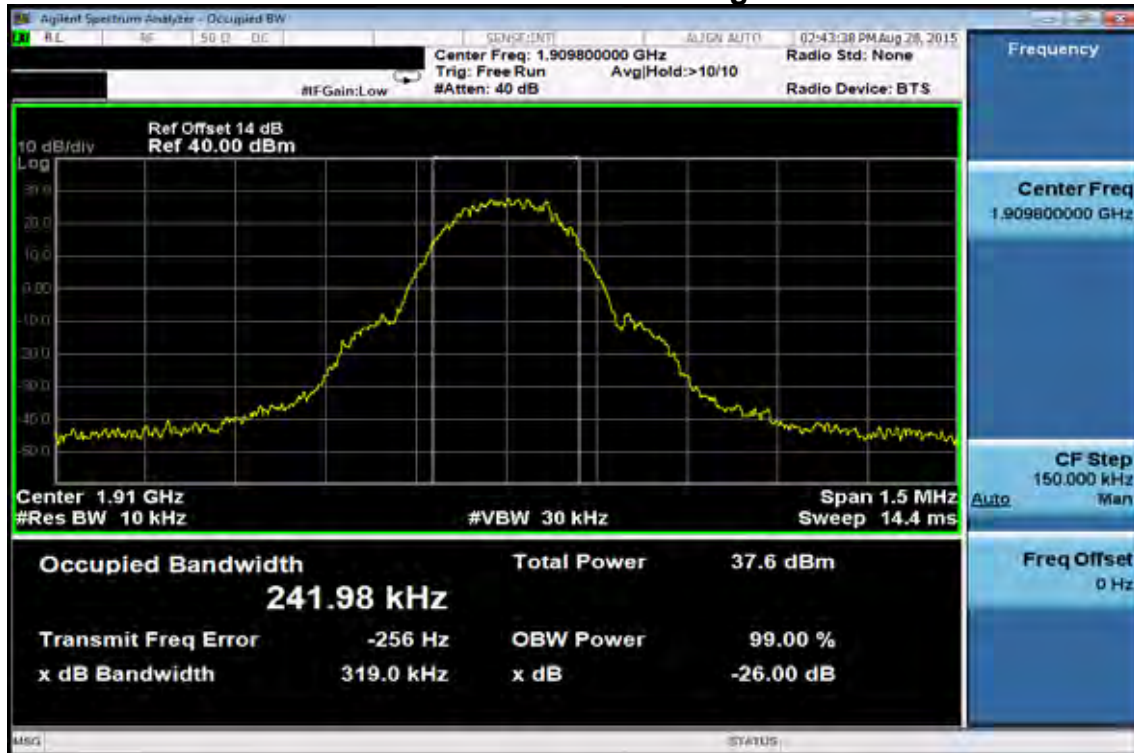
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GPRS 1900 Channel Mid



GPRS 1900 Channel High



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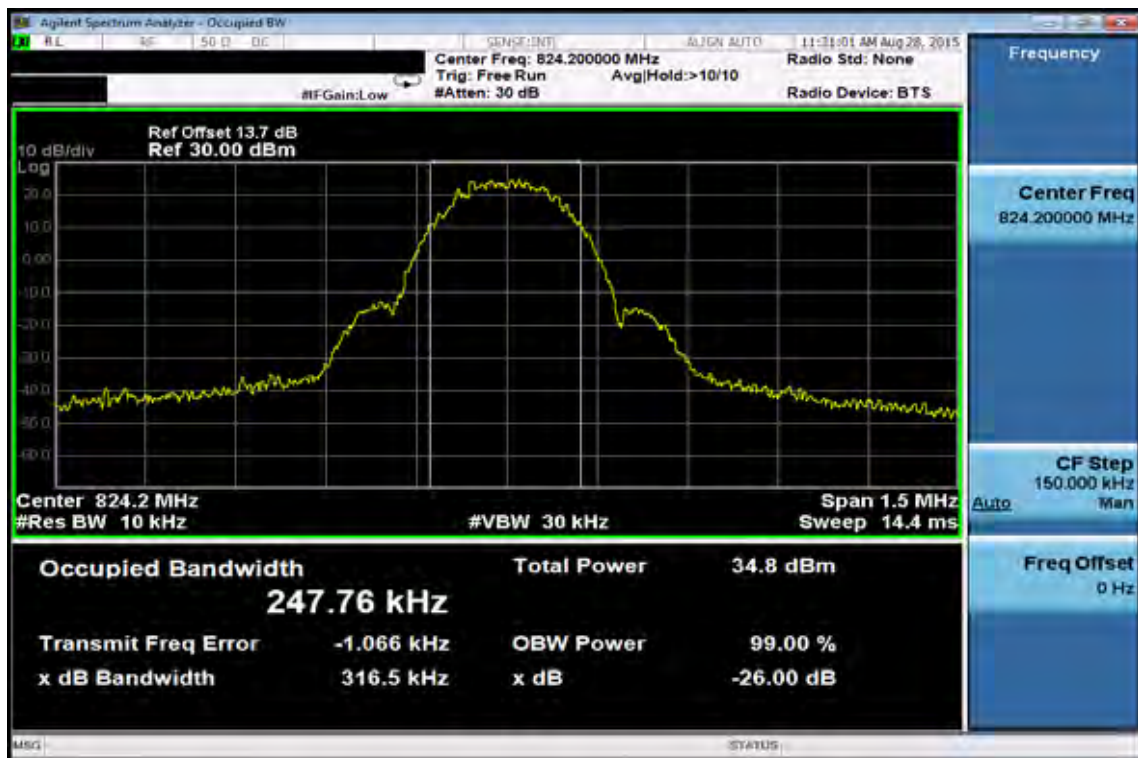
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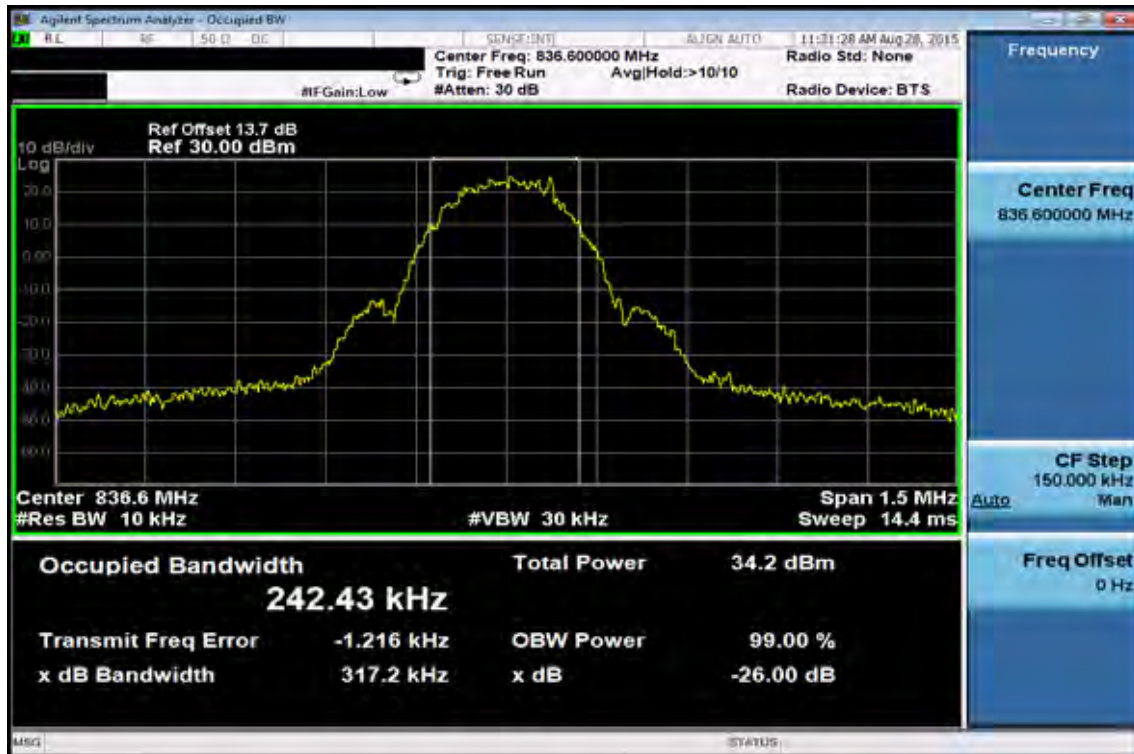
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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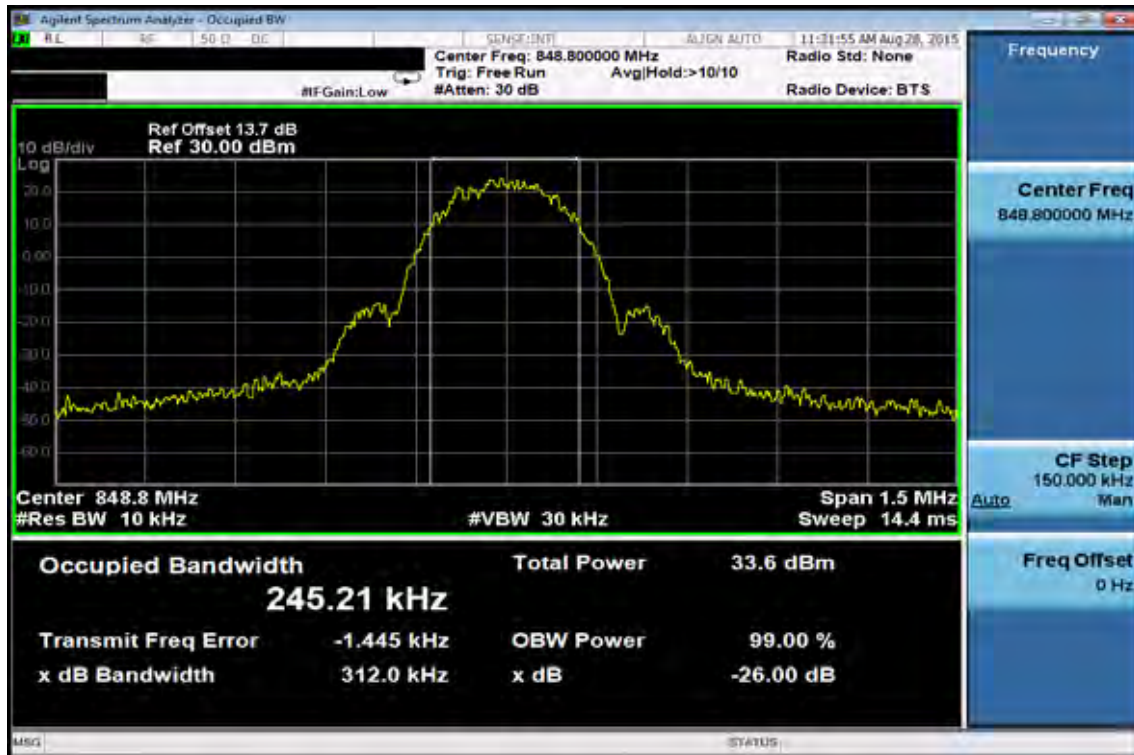
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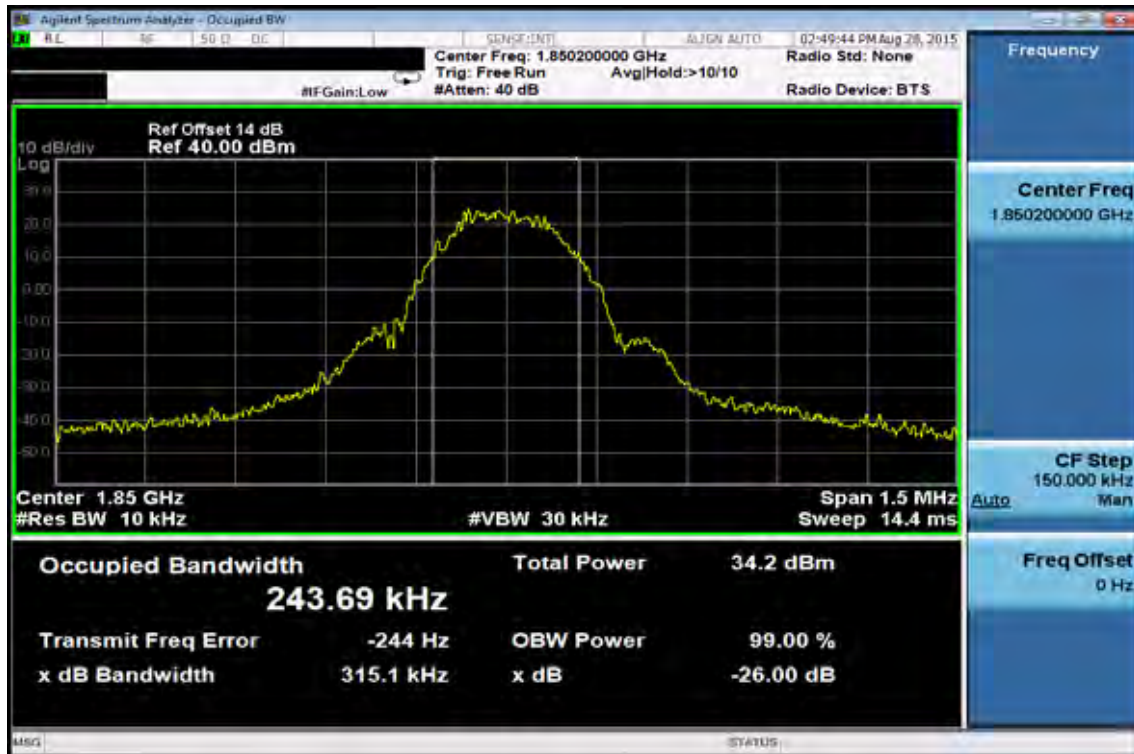
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EDGE 850 Channel High



EDGE 1900 Channel Low



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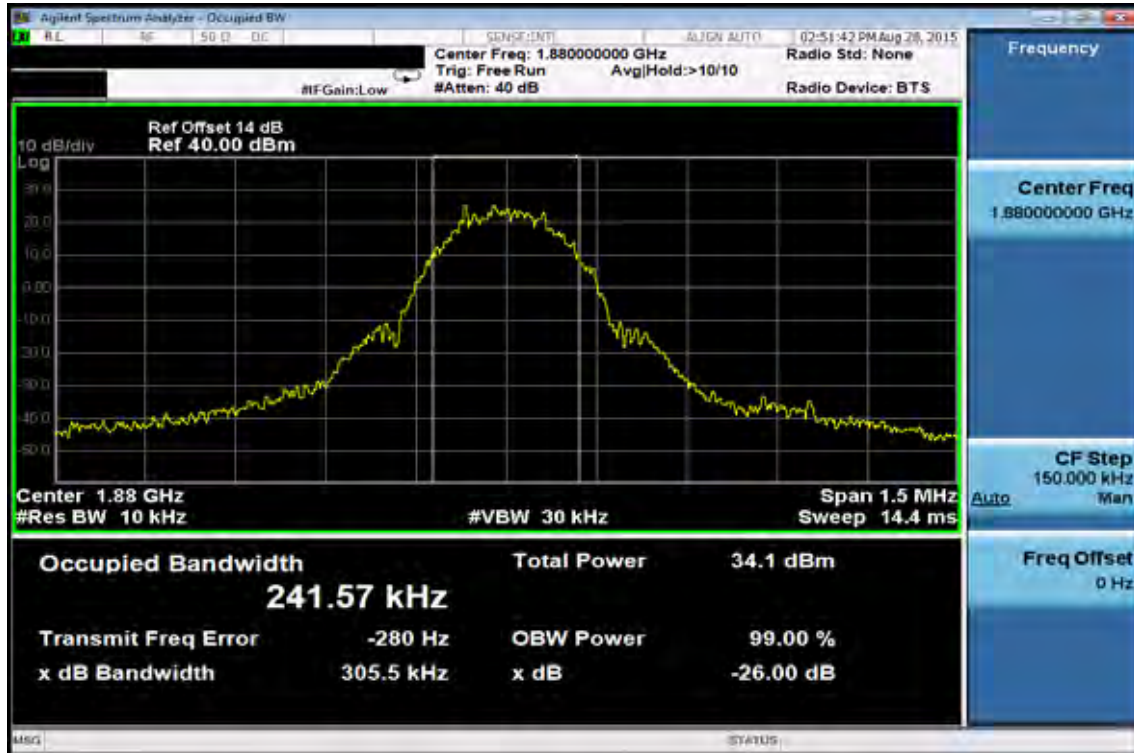
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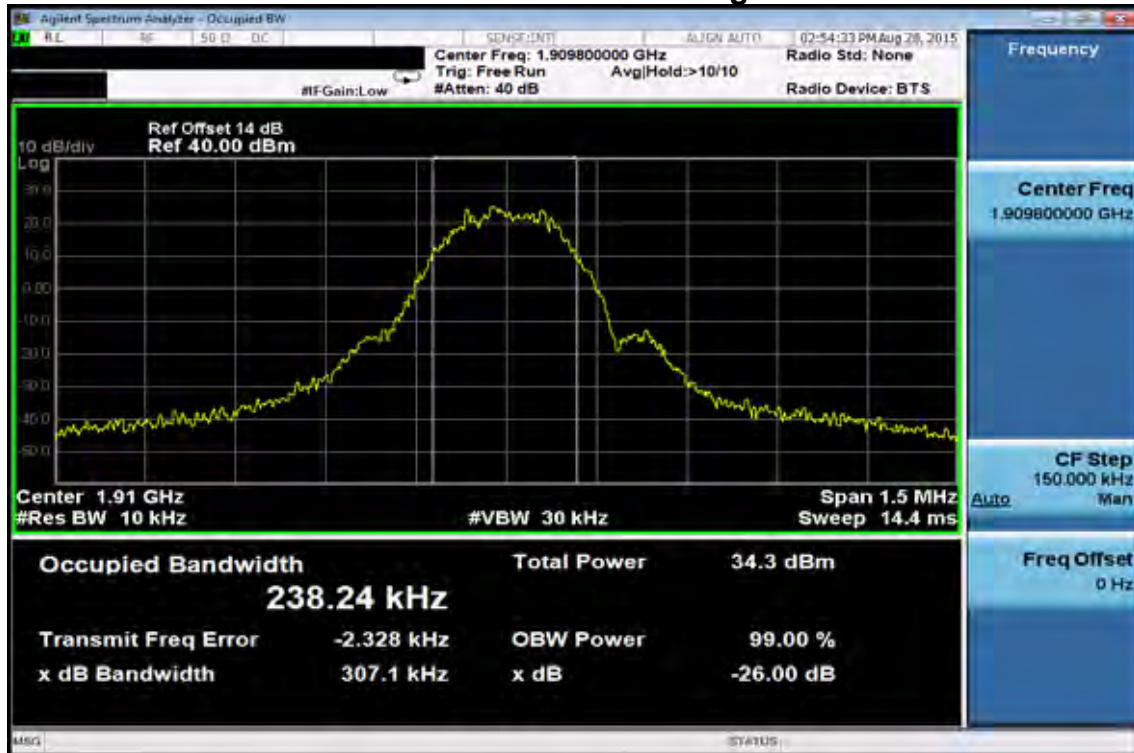
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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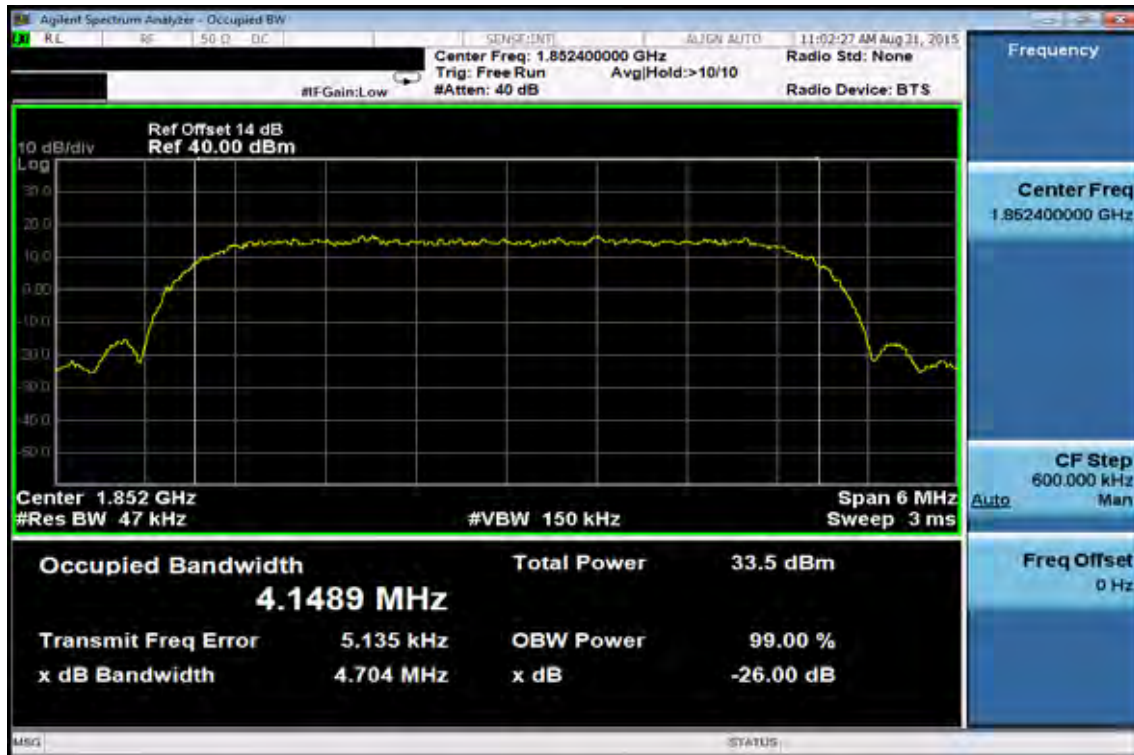
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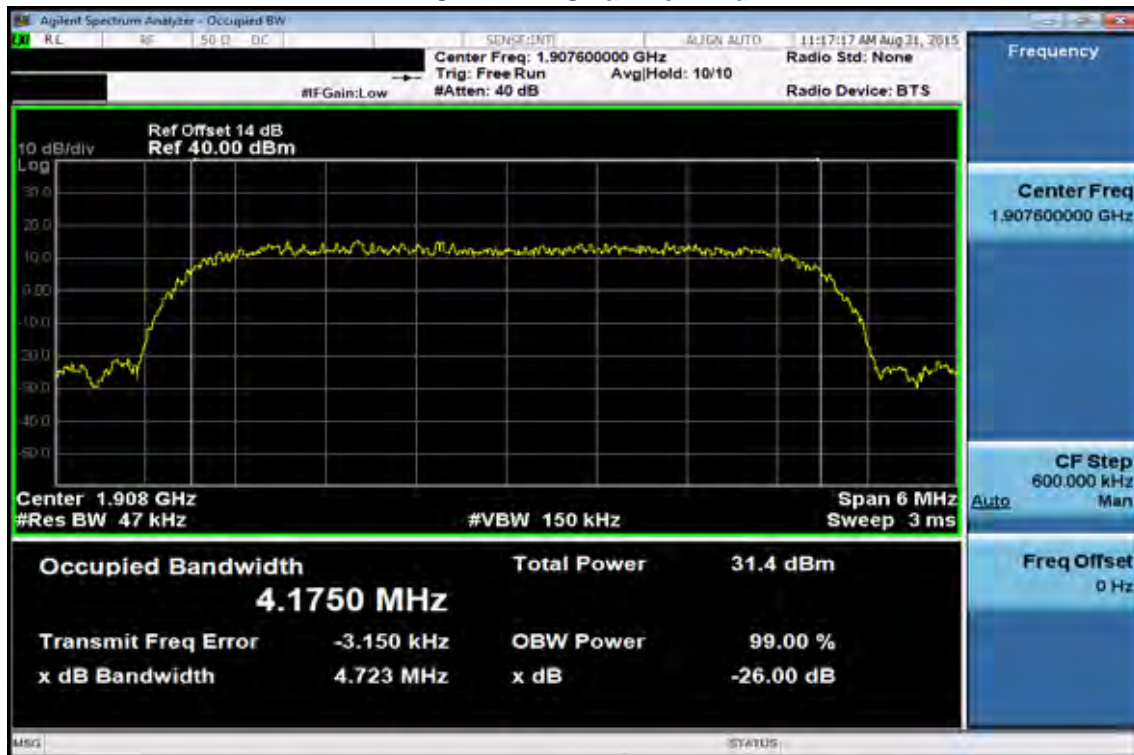
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WCDMA II Channel Low



WCDMA II Channel Mid



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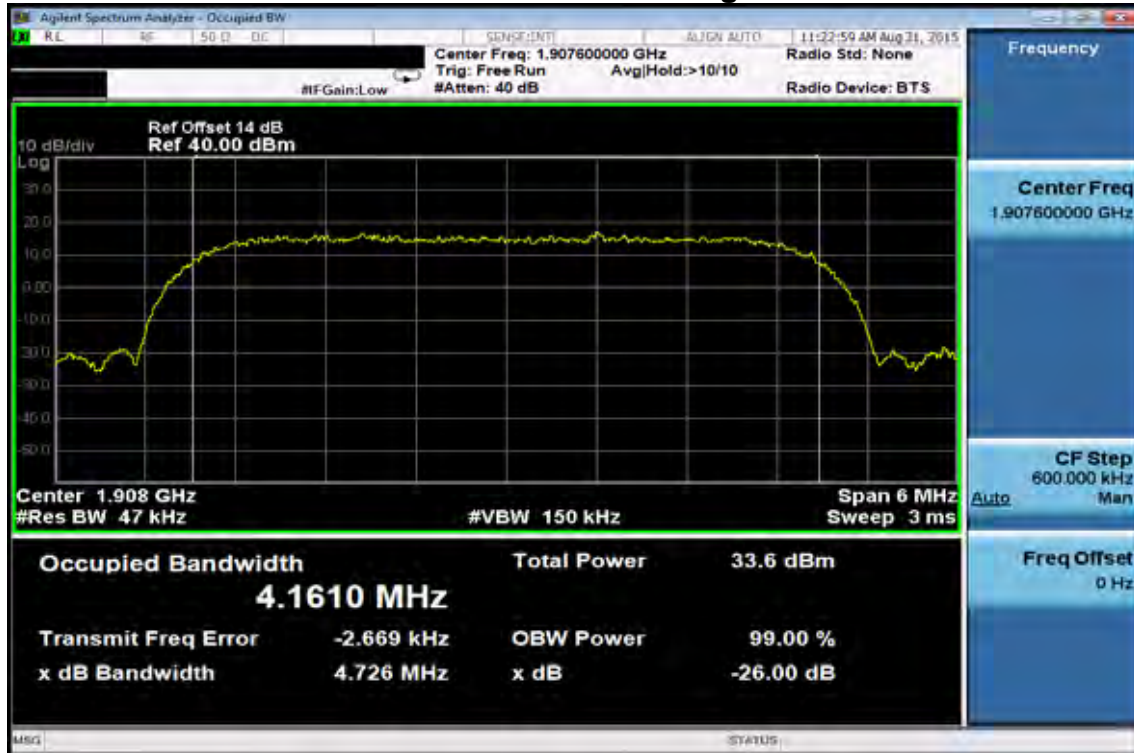
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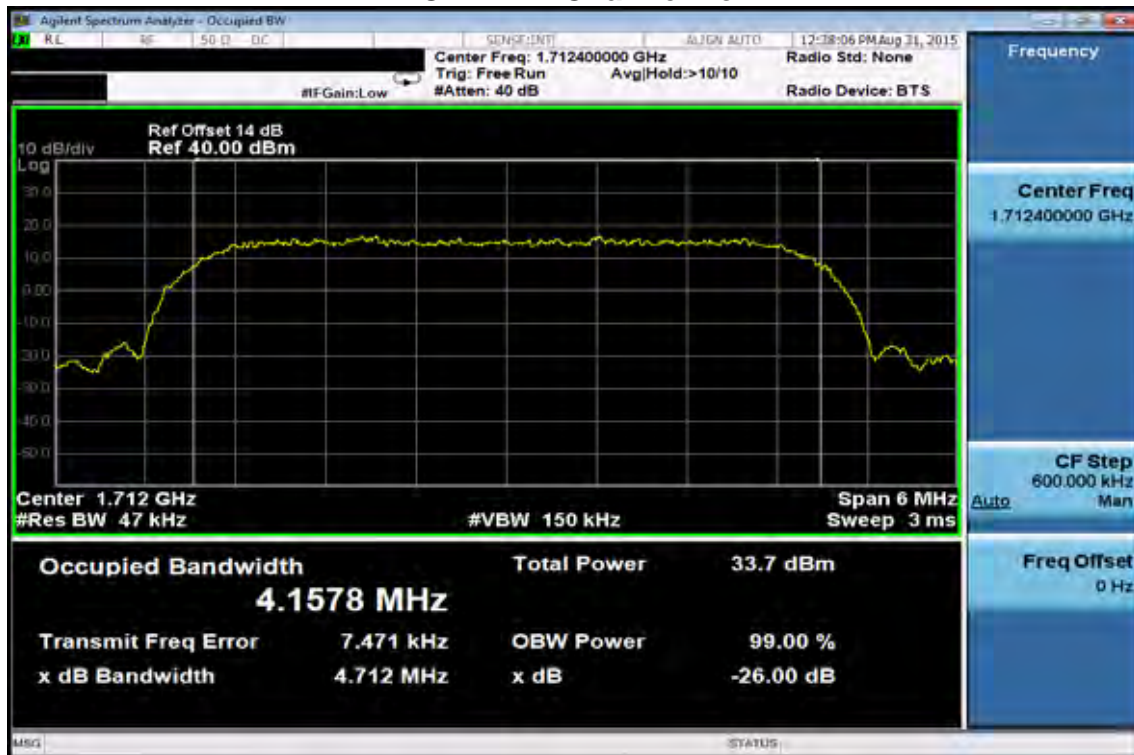
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WCDMA II Channel High



WCDMA IV Channel Low



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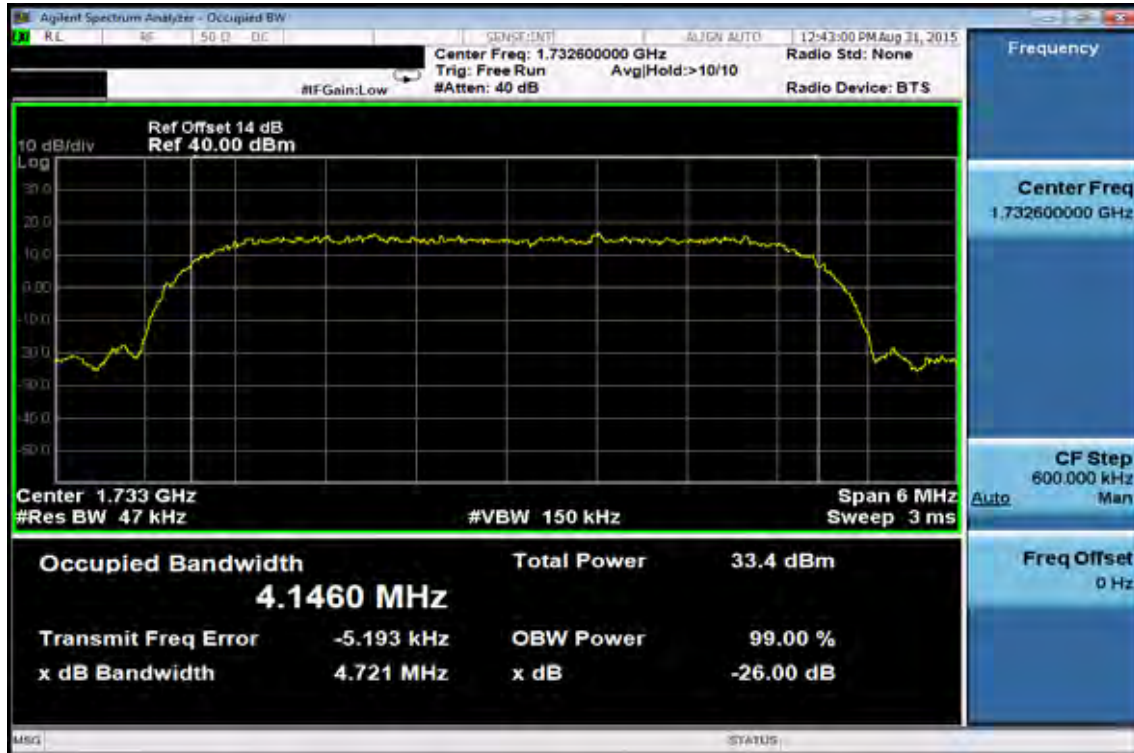
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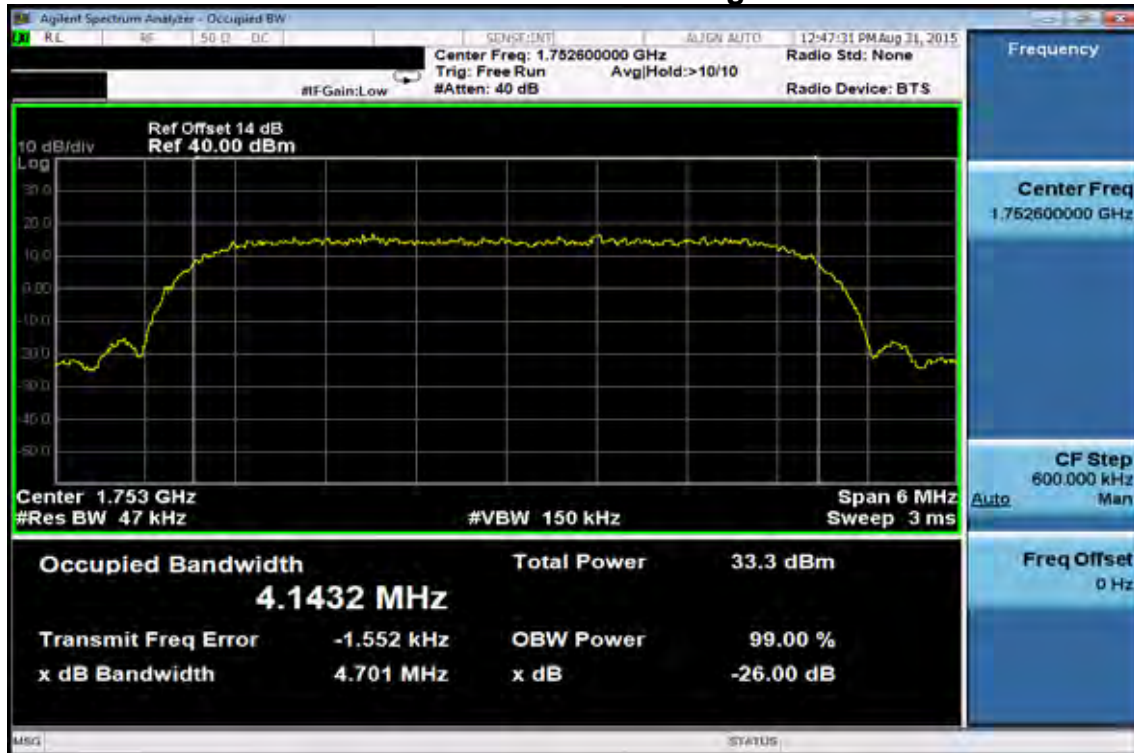
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WCDMA IV Channel Mid



WCDMA IV Channel High



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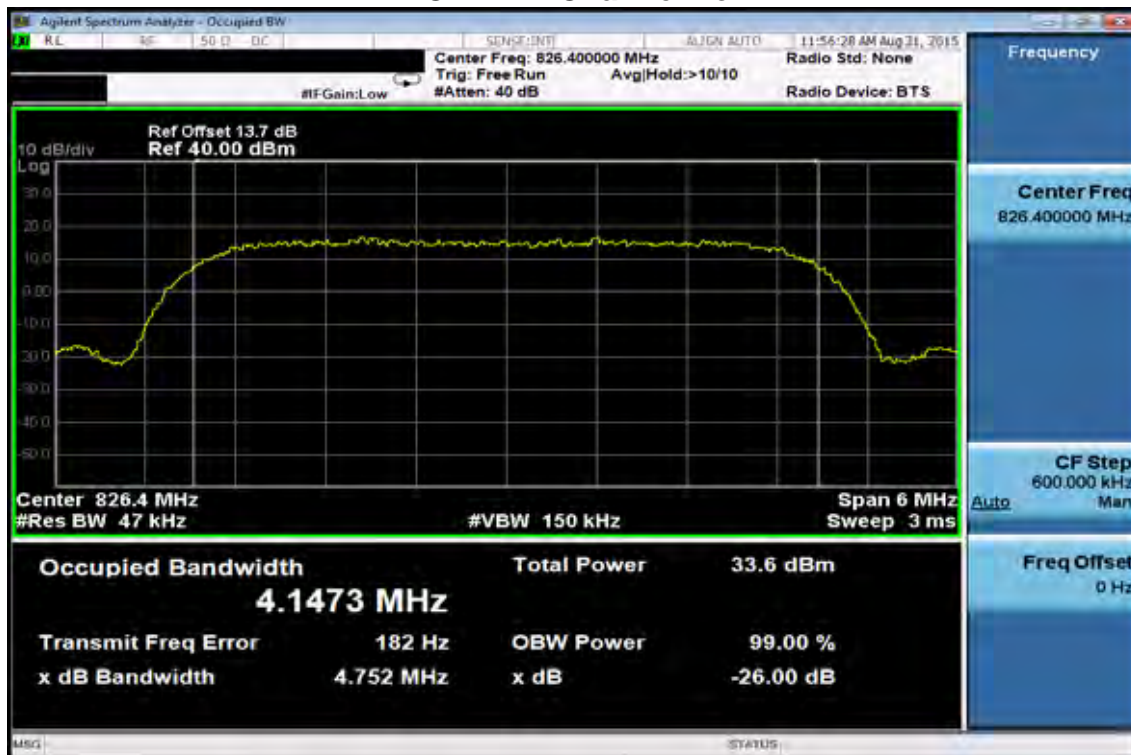
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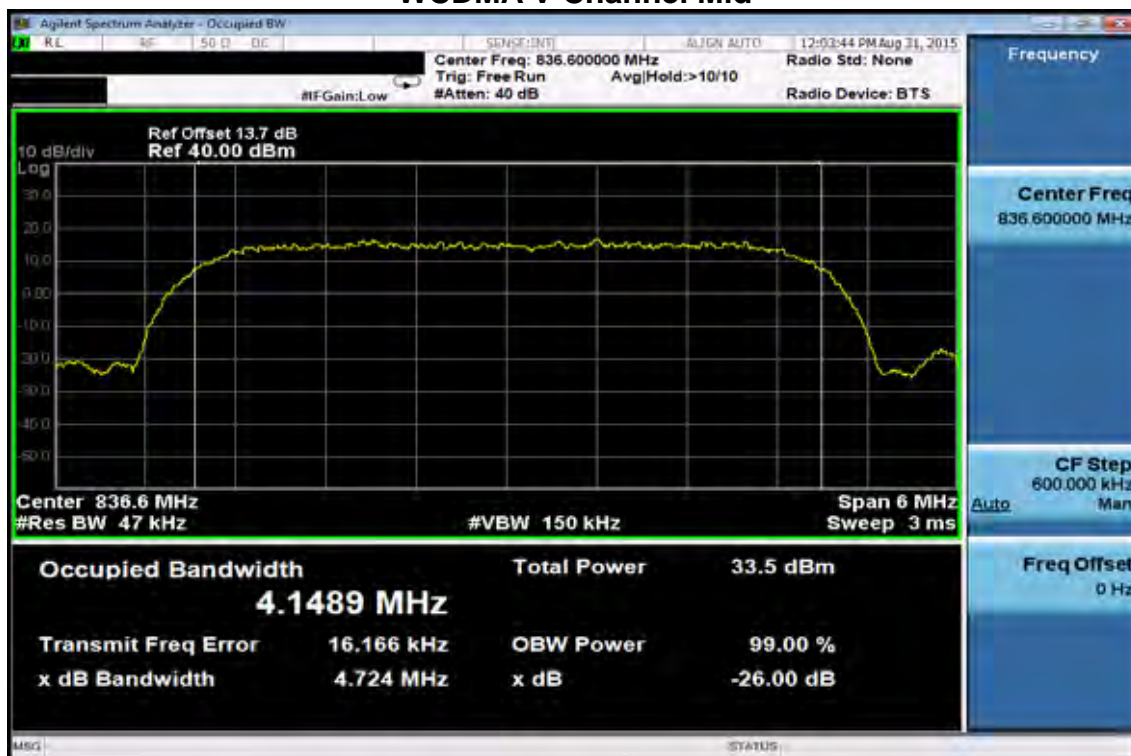
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WCDMA V Channel Low



WCDMA V Channel Mid



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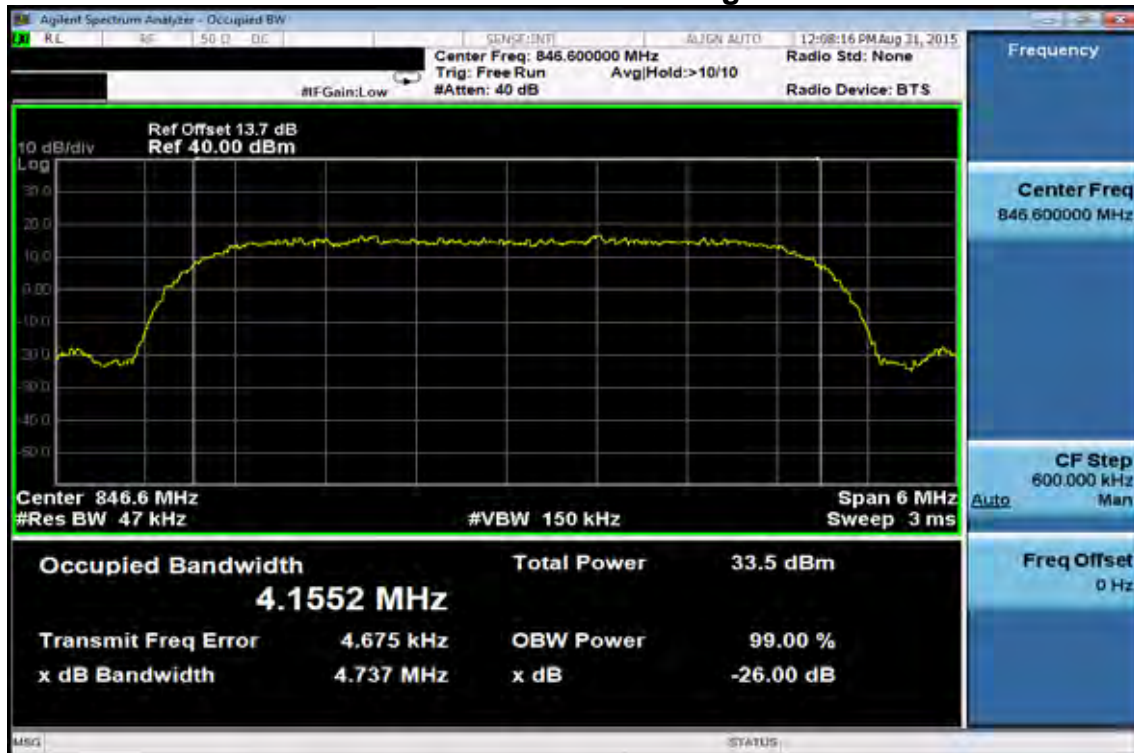
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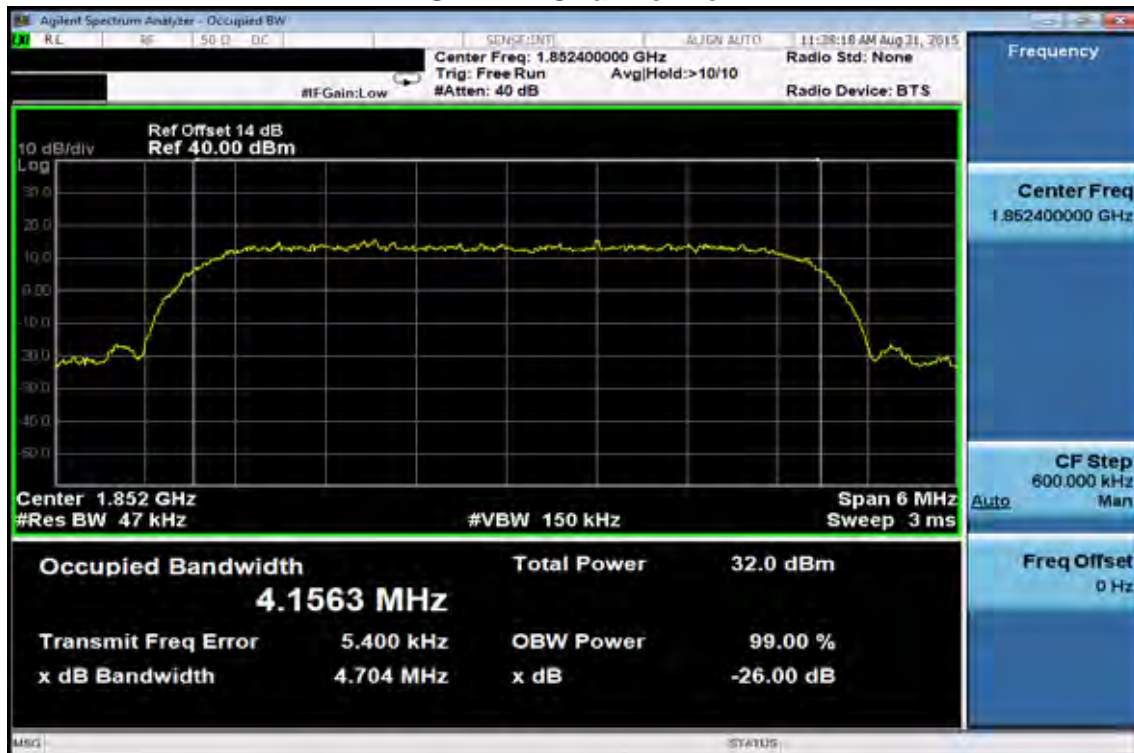
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WCDMA V Channel High



HSDPA II Channel Low



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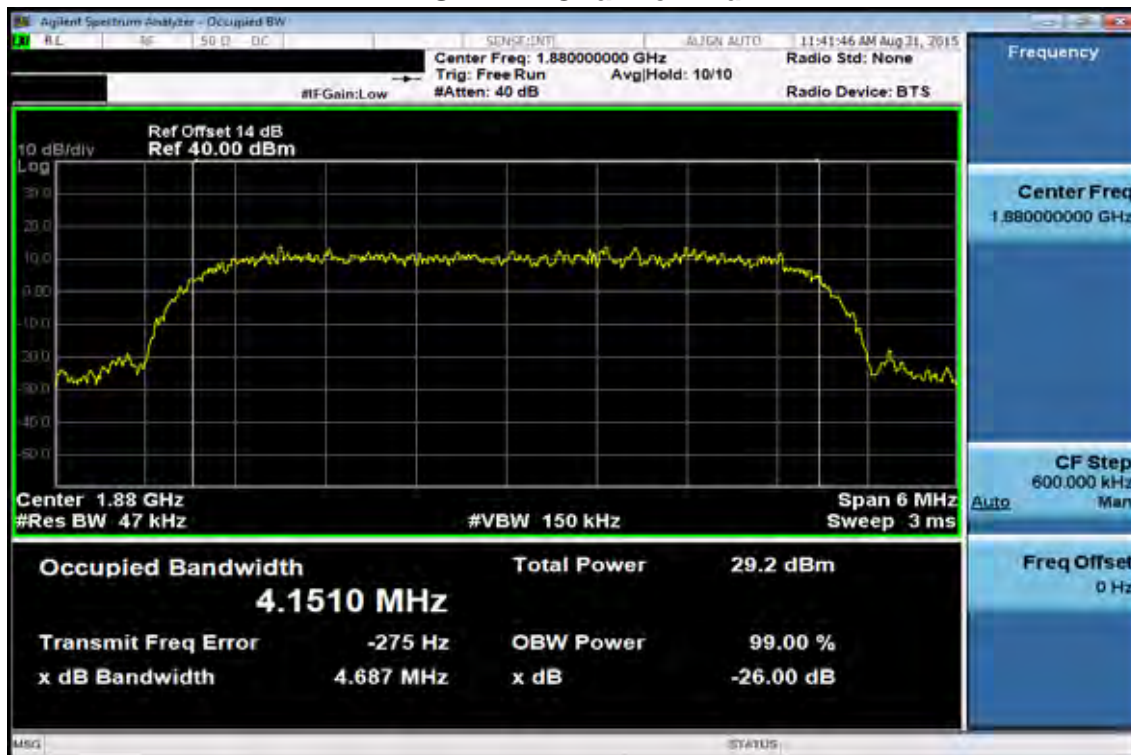
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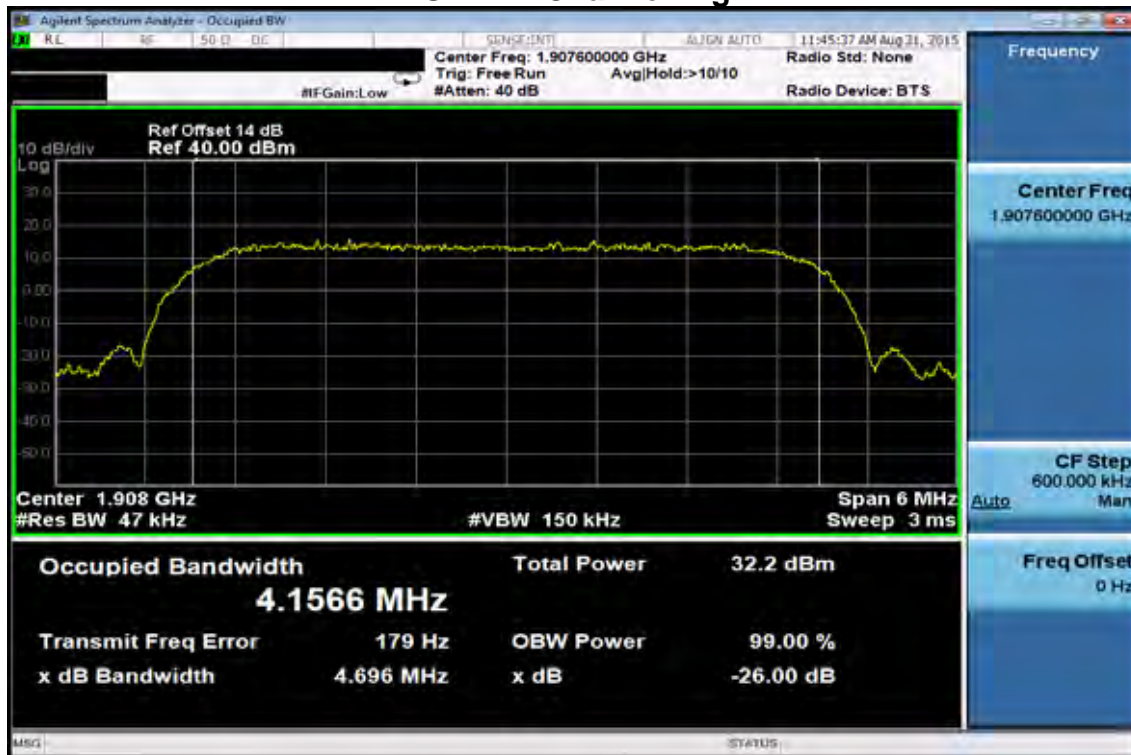
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HSDPA II Channel Mid



HSDPA II Channel High



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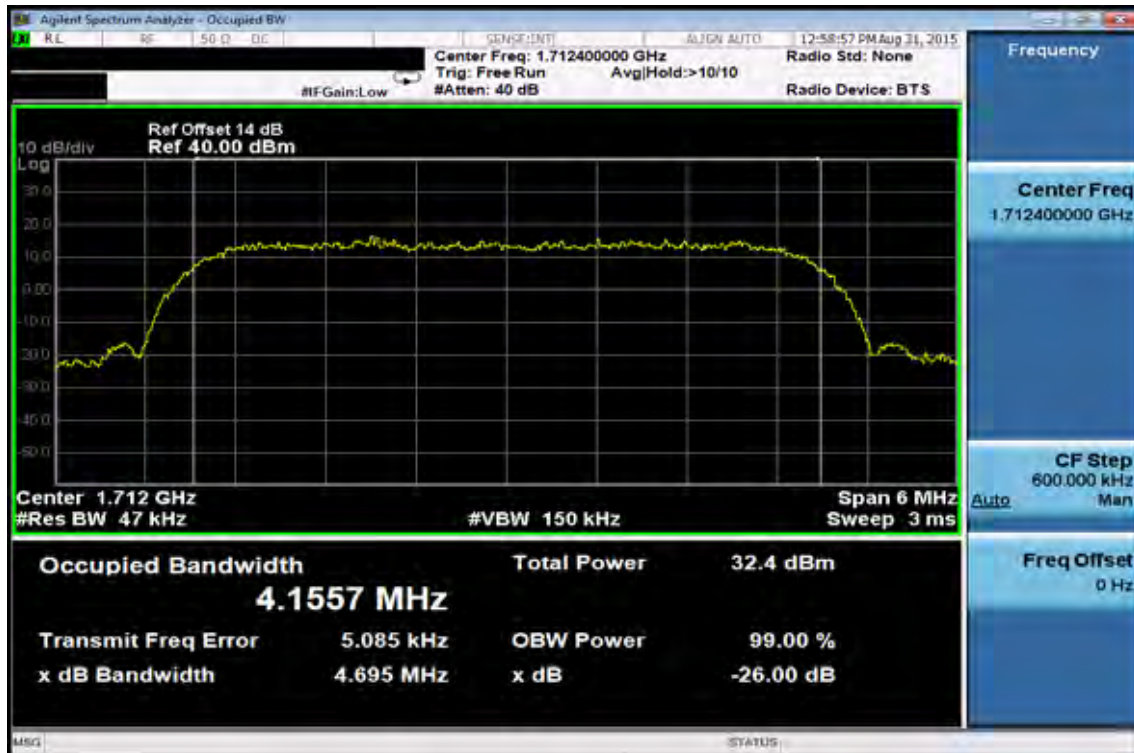
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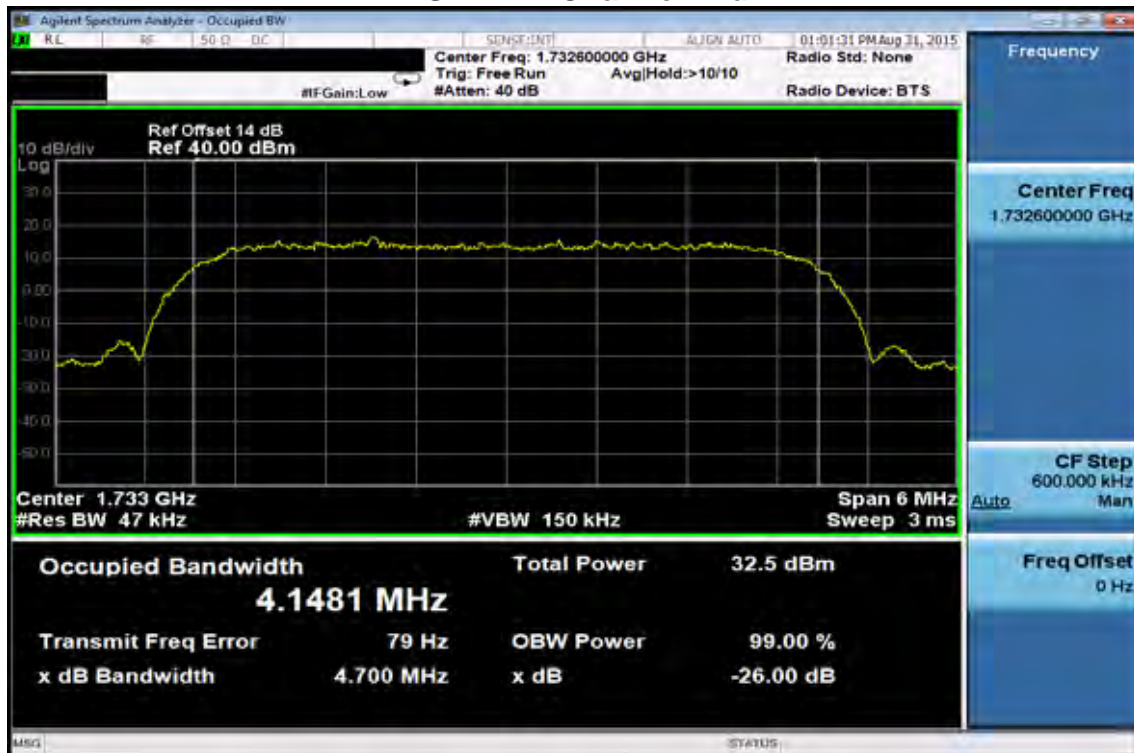
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HSDPA IV Channel Low



HSDPA IV Channel Mid



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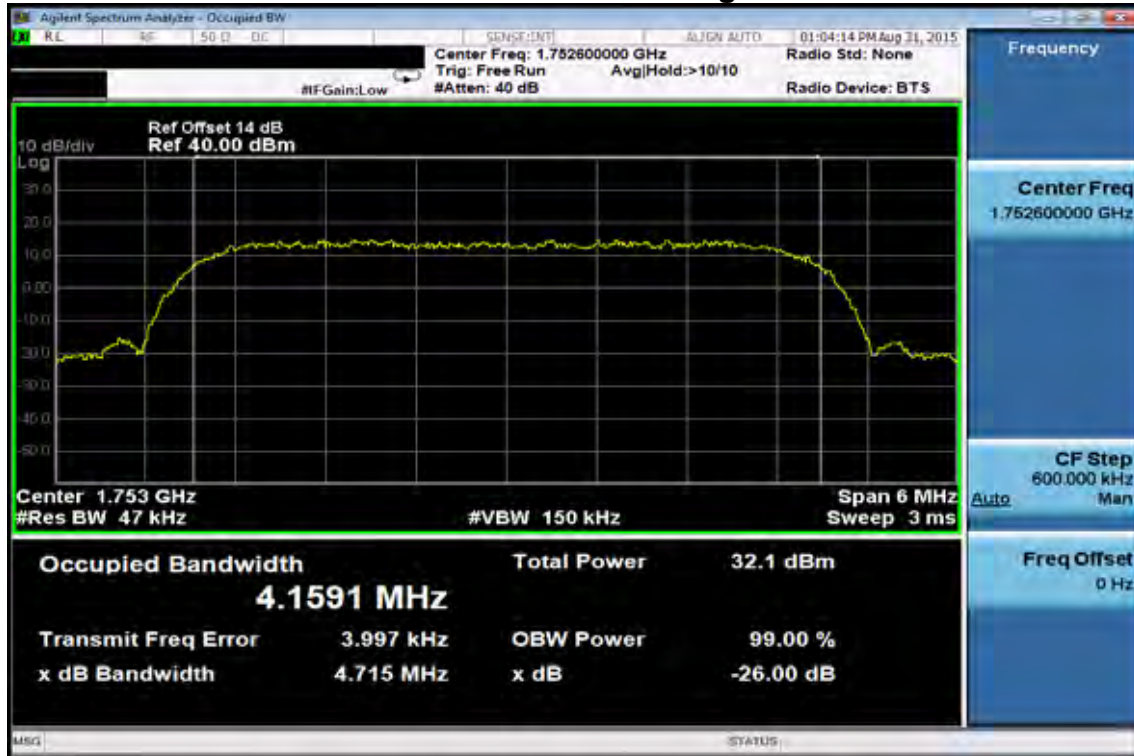
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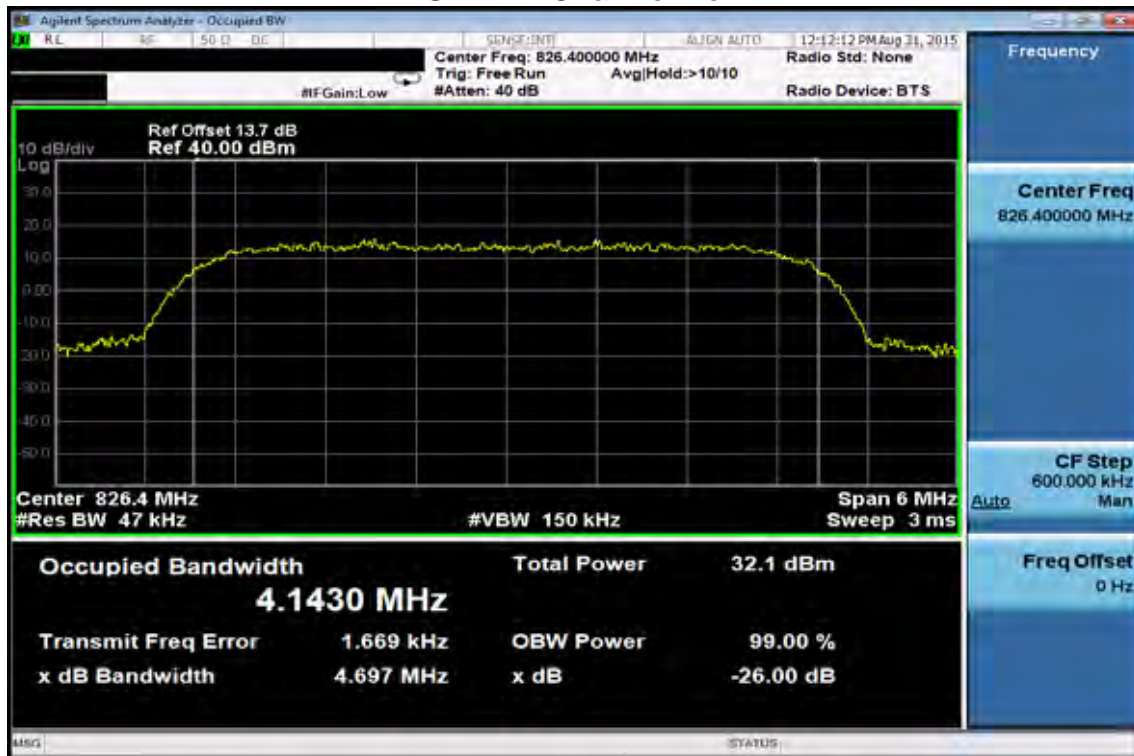
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HSDPA IV Channel High



HSDPA V Channel Low



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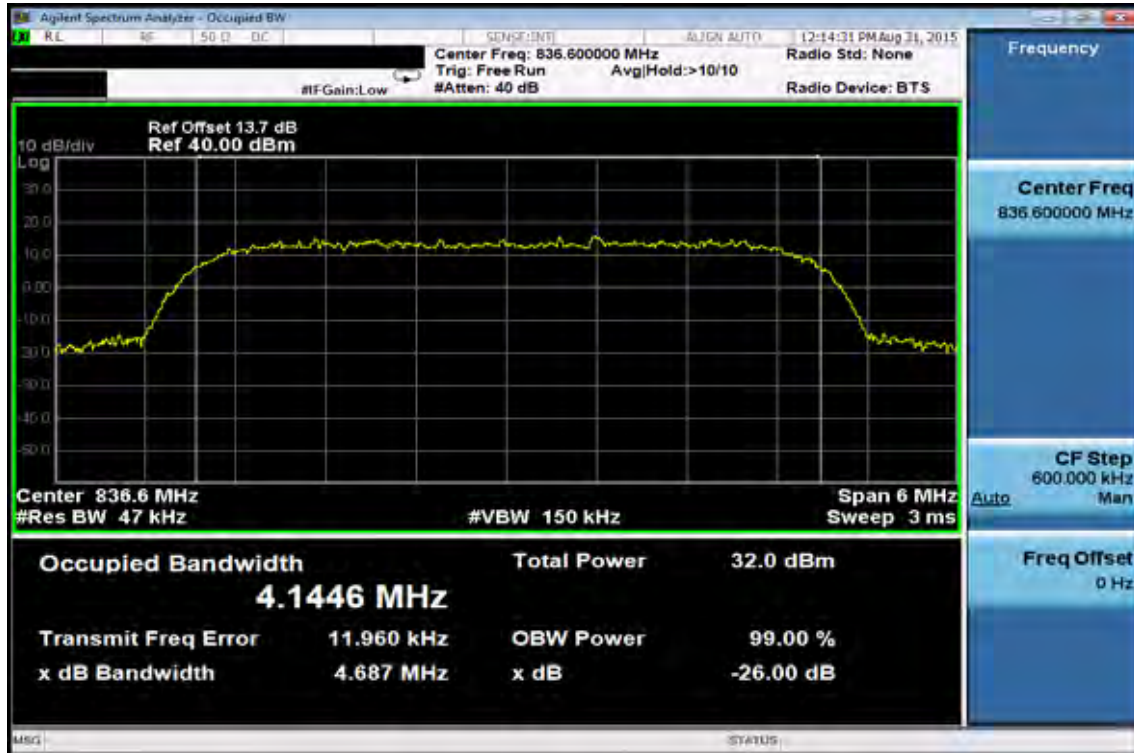
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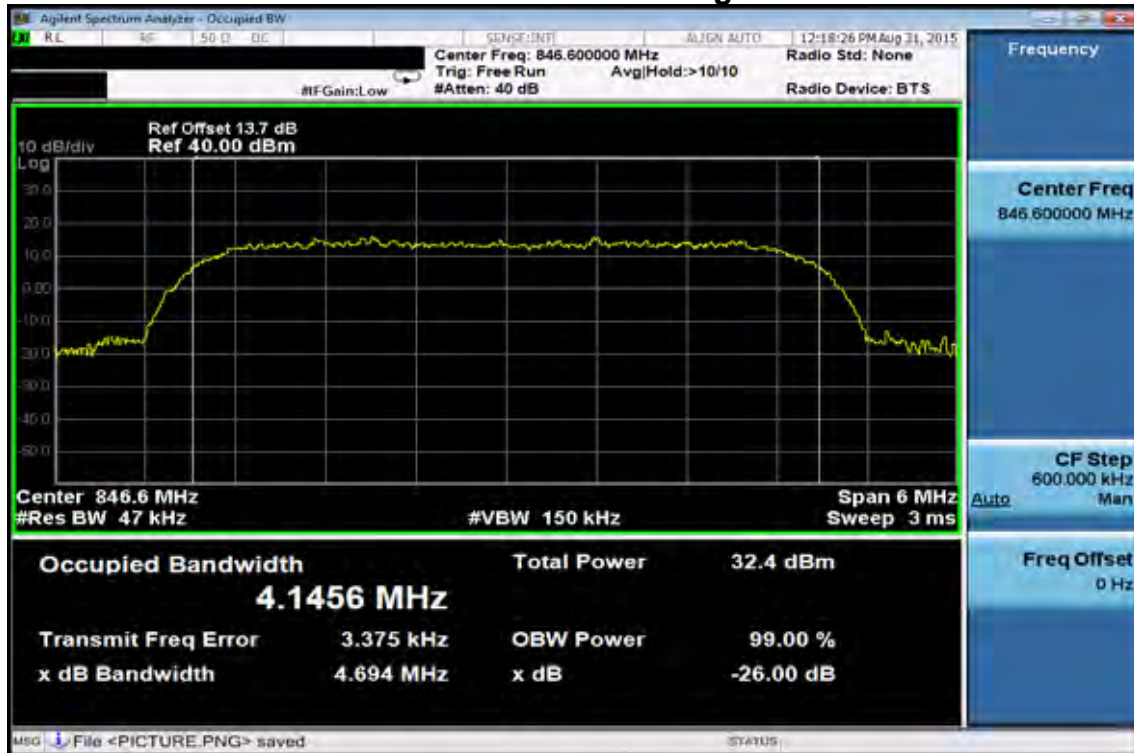
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HSDPA V Channel Mid



HSDPA V Channel High



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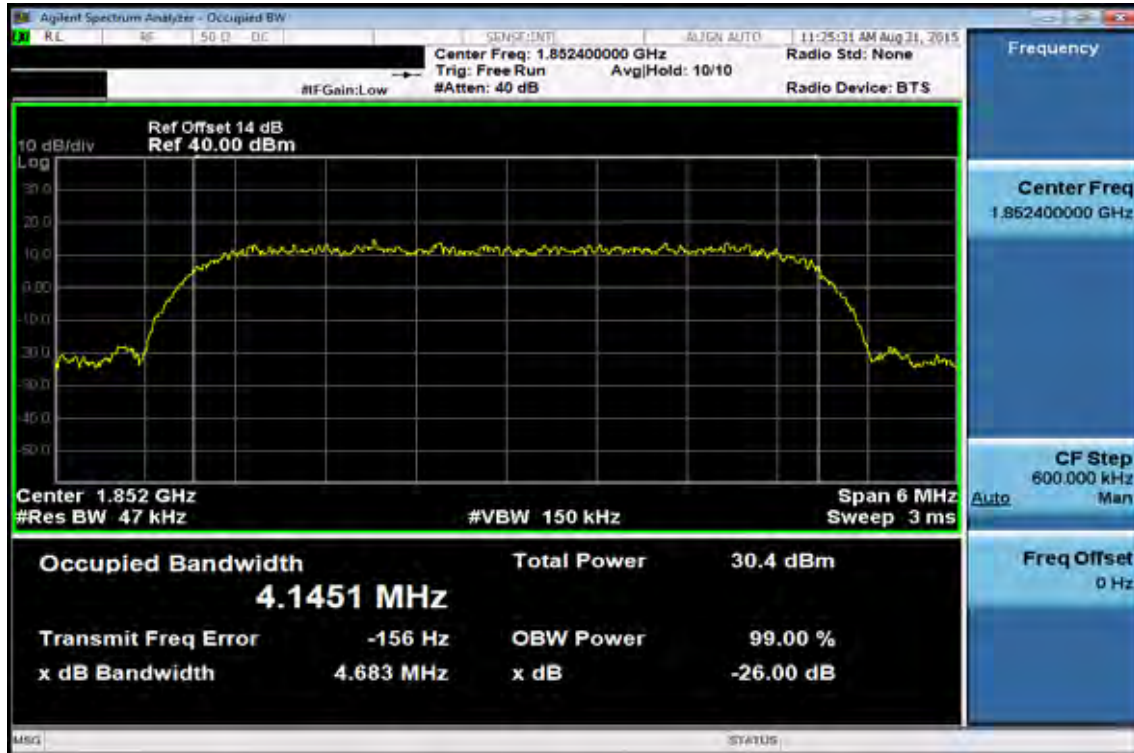
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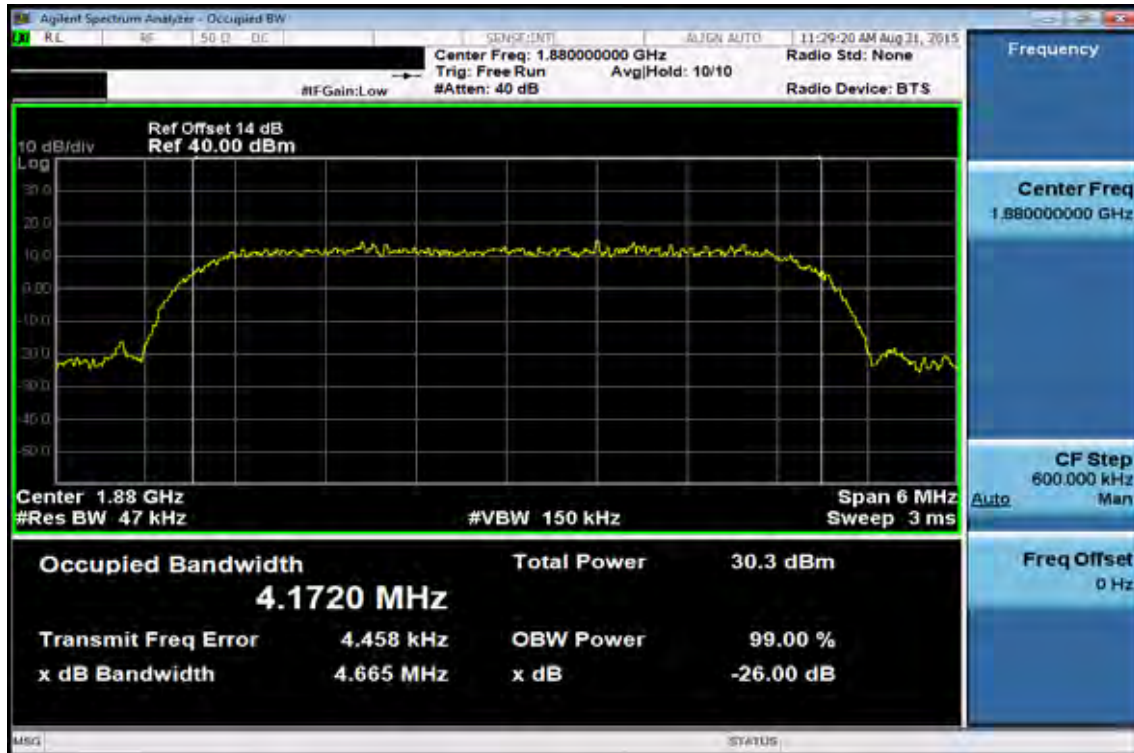
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HSUPA II Channel Low



HSUPA II Channel Mid



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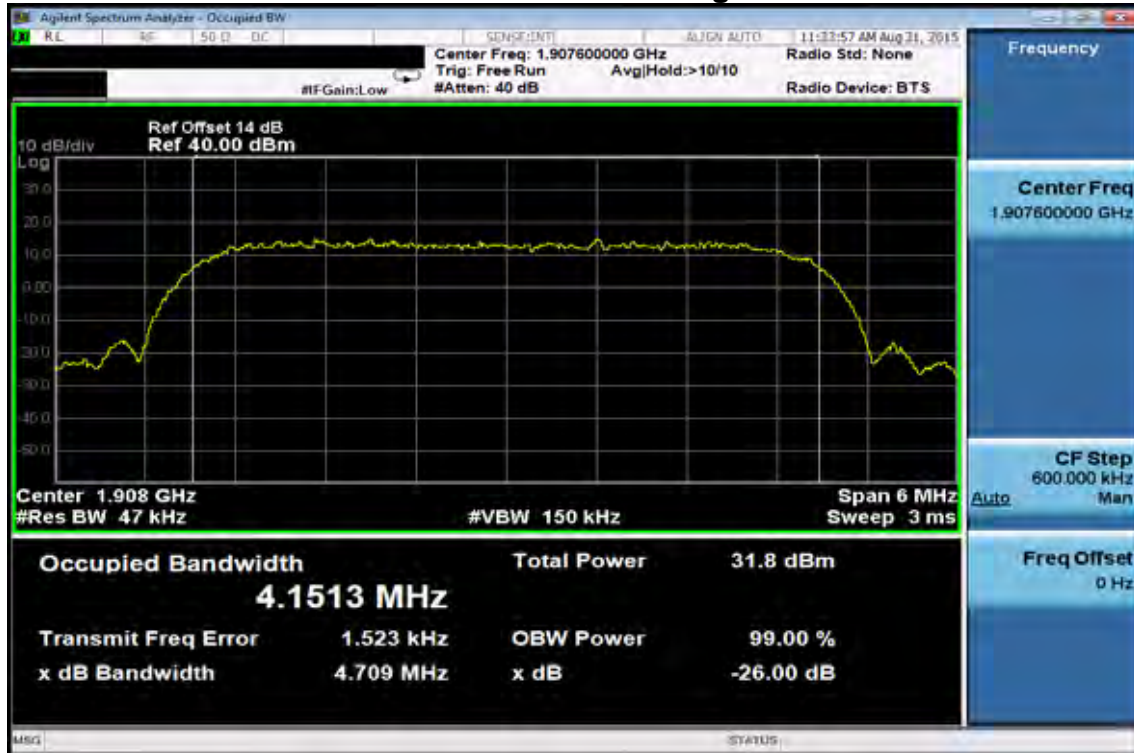
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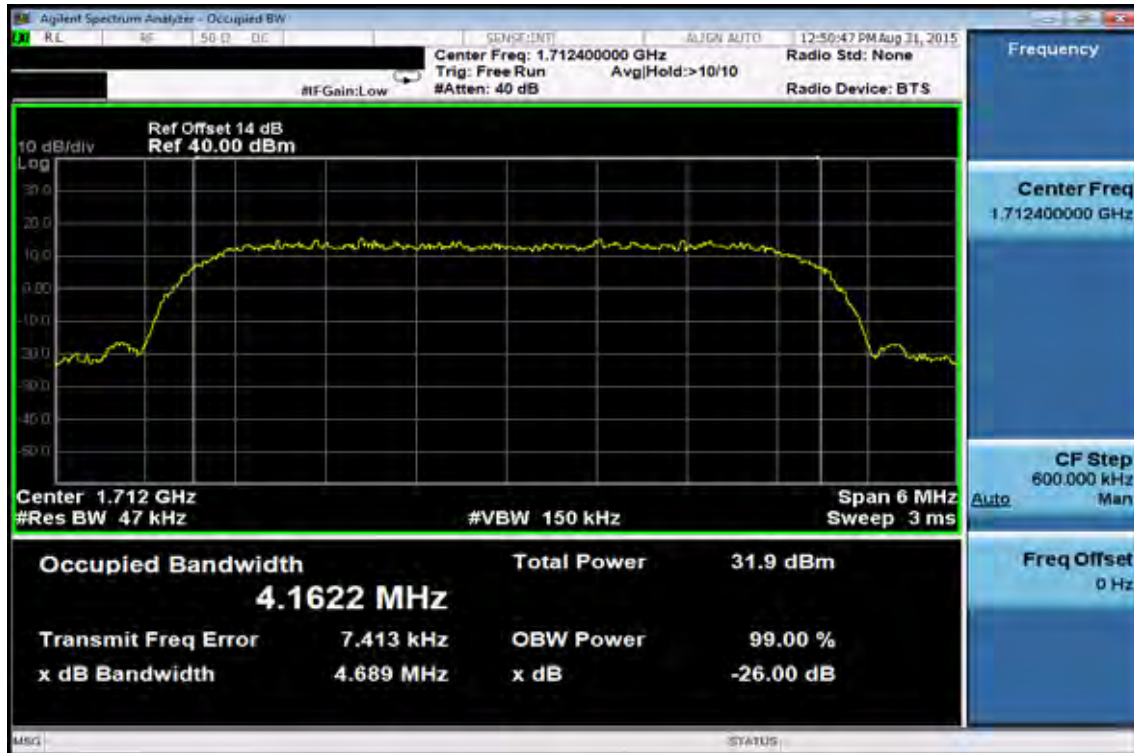
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HSUPA II Channel High



HSUPA IV Channel Low



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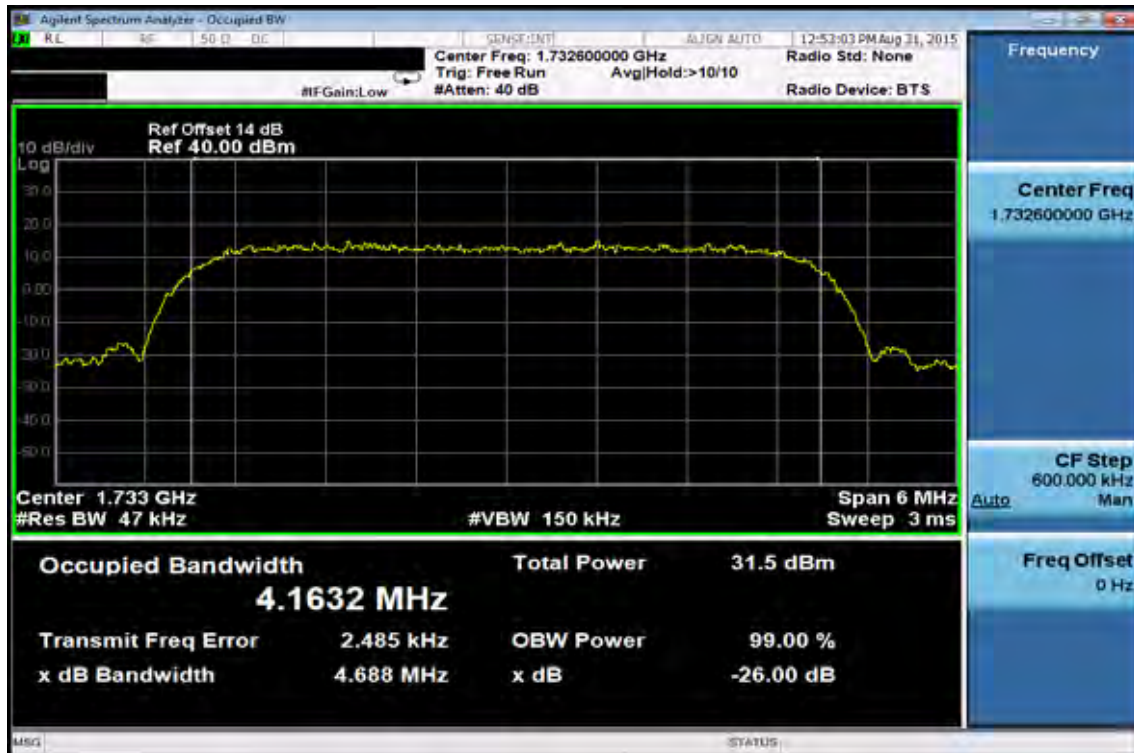
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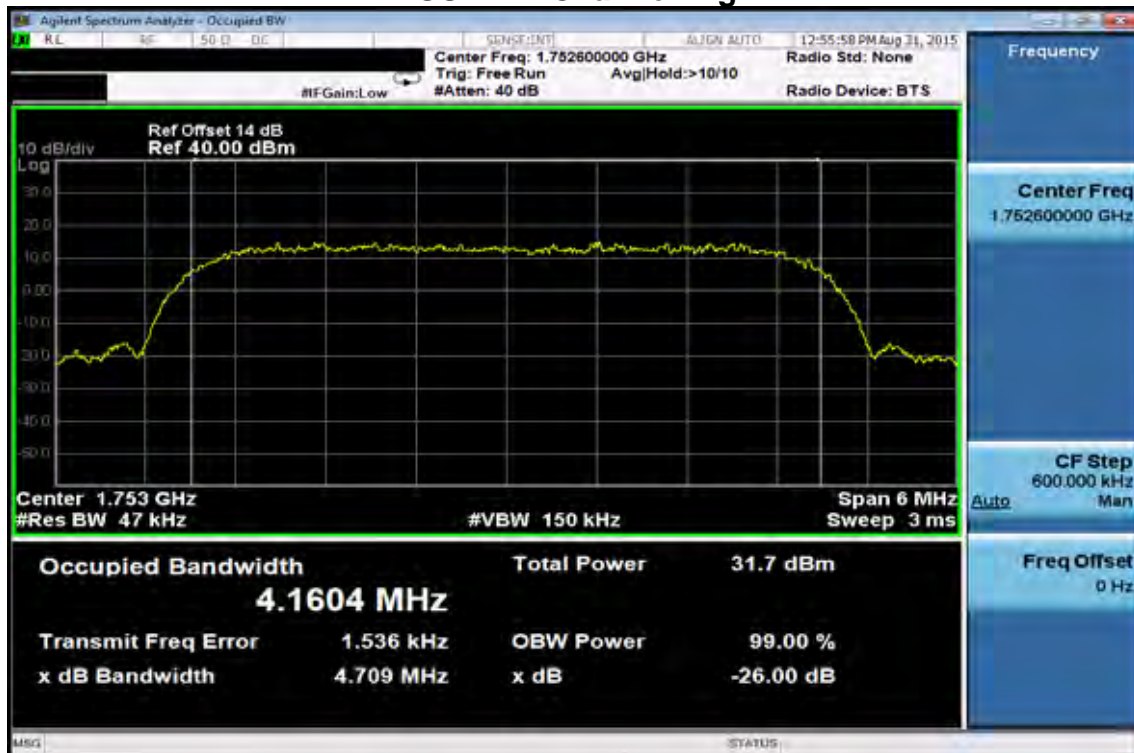
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HSUPA IV Channel Mid



HSUPA IV Channel High



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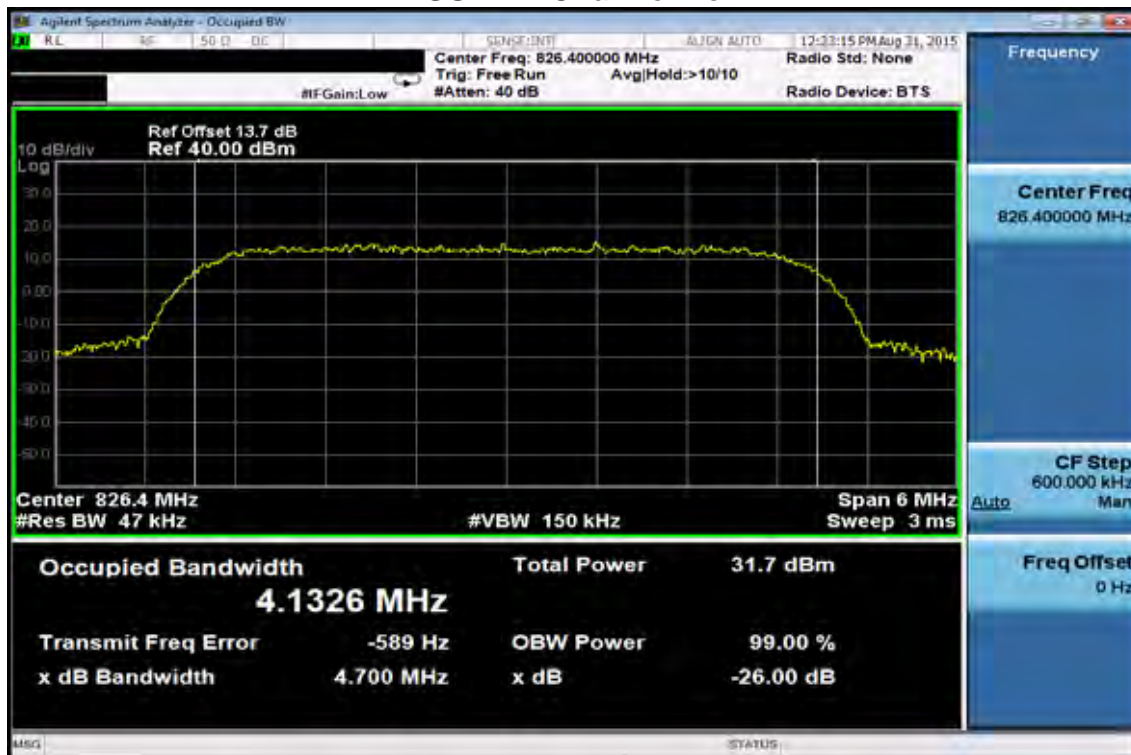
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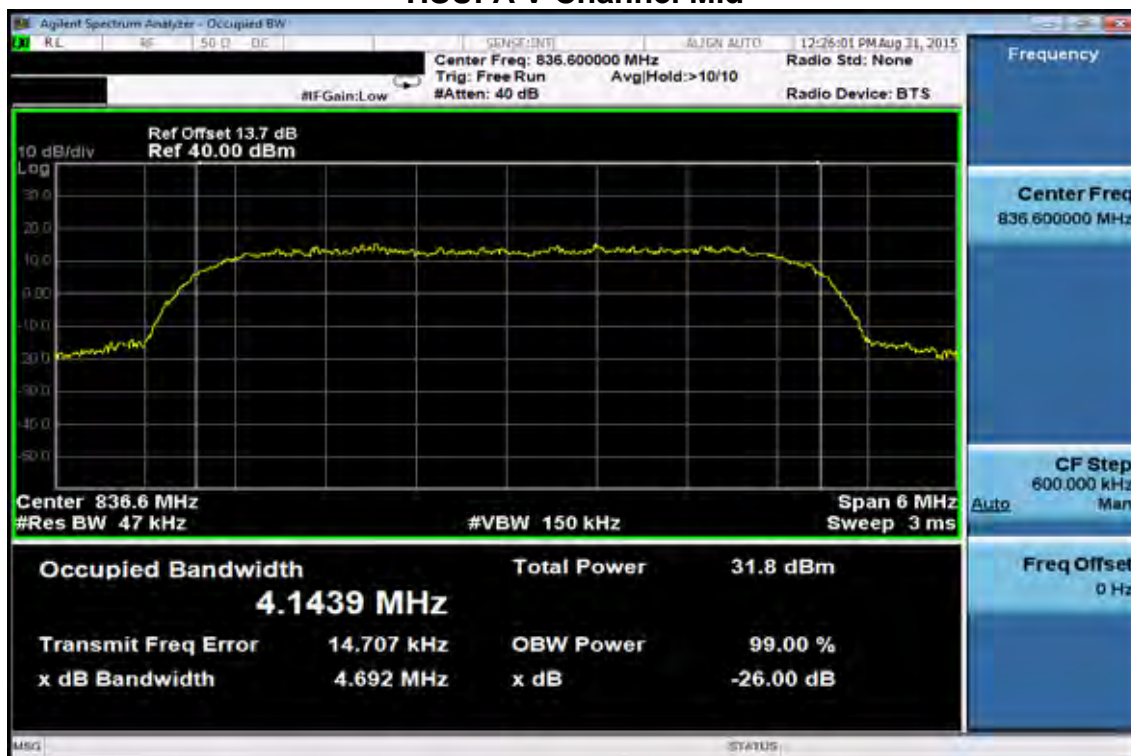
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HSUPA V Channel Low



HSUPA V Channel Mid



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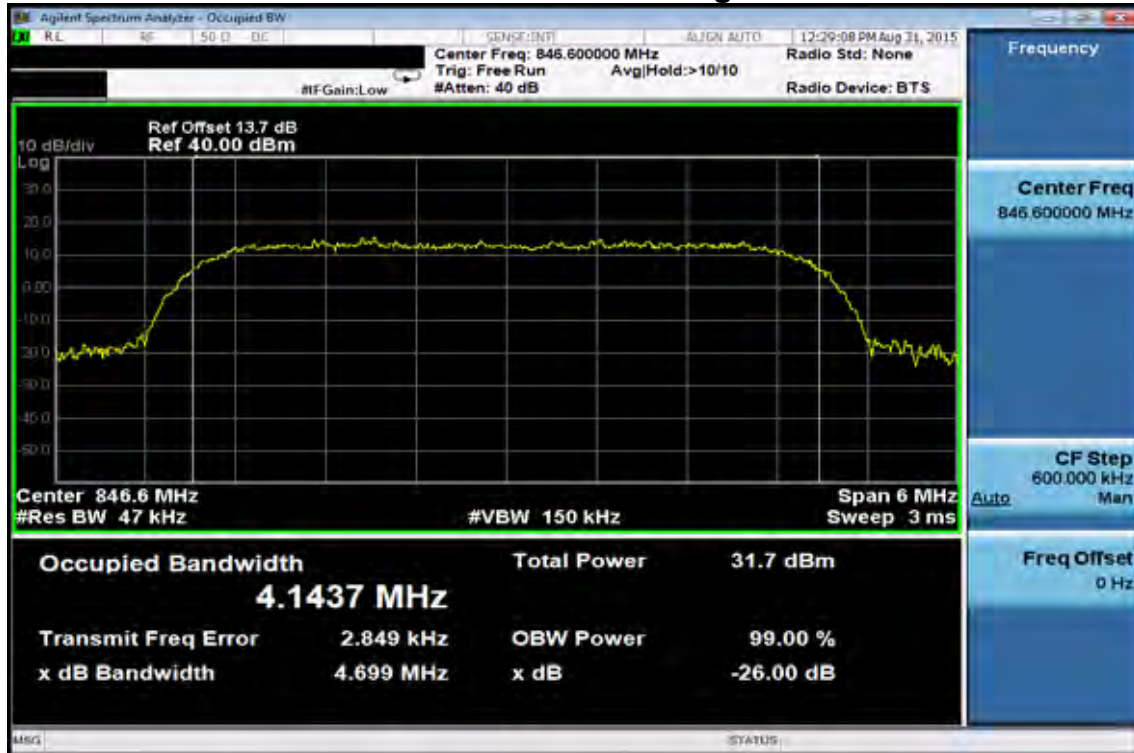
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HSUPA V Channel High



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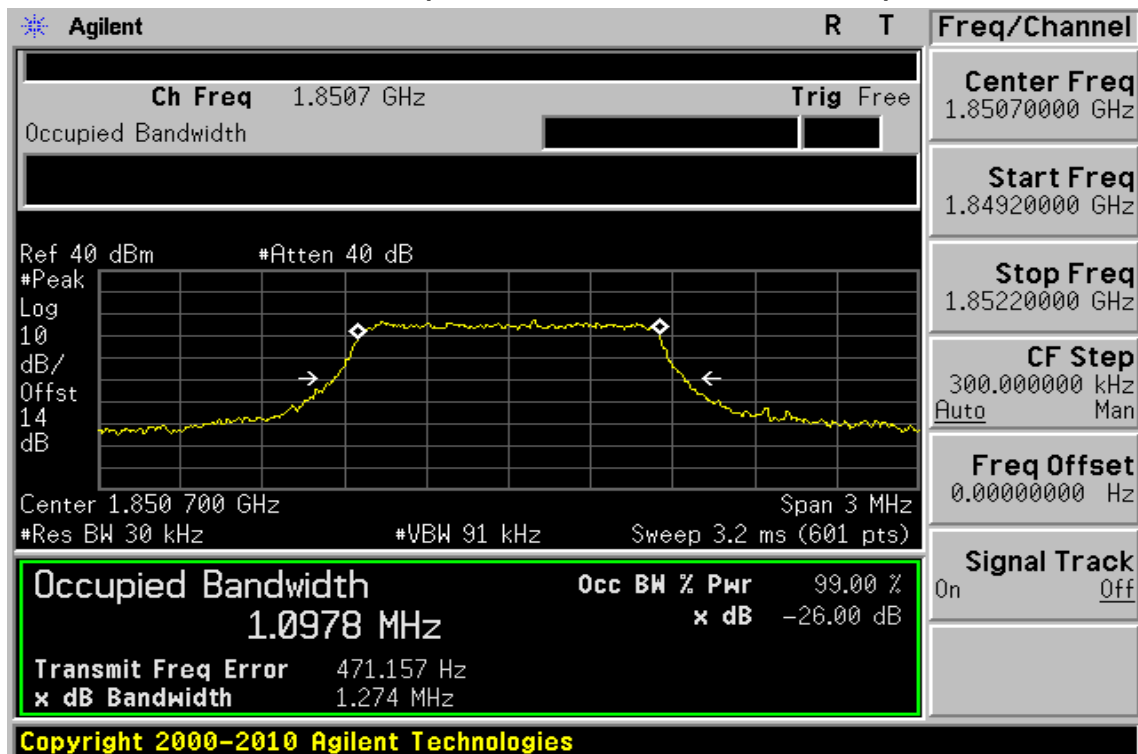
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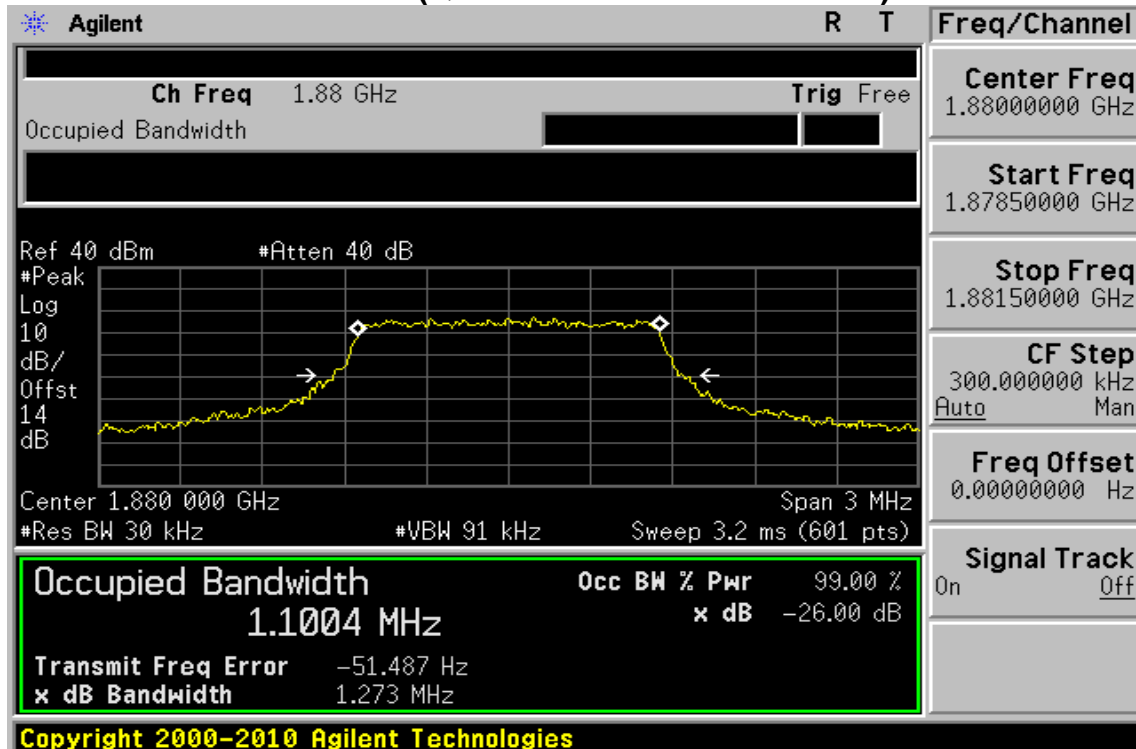
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low



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



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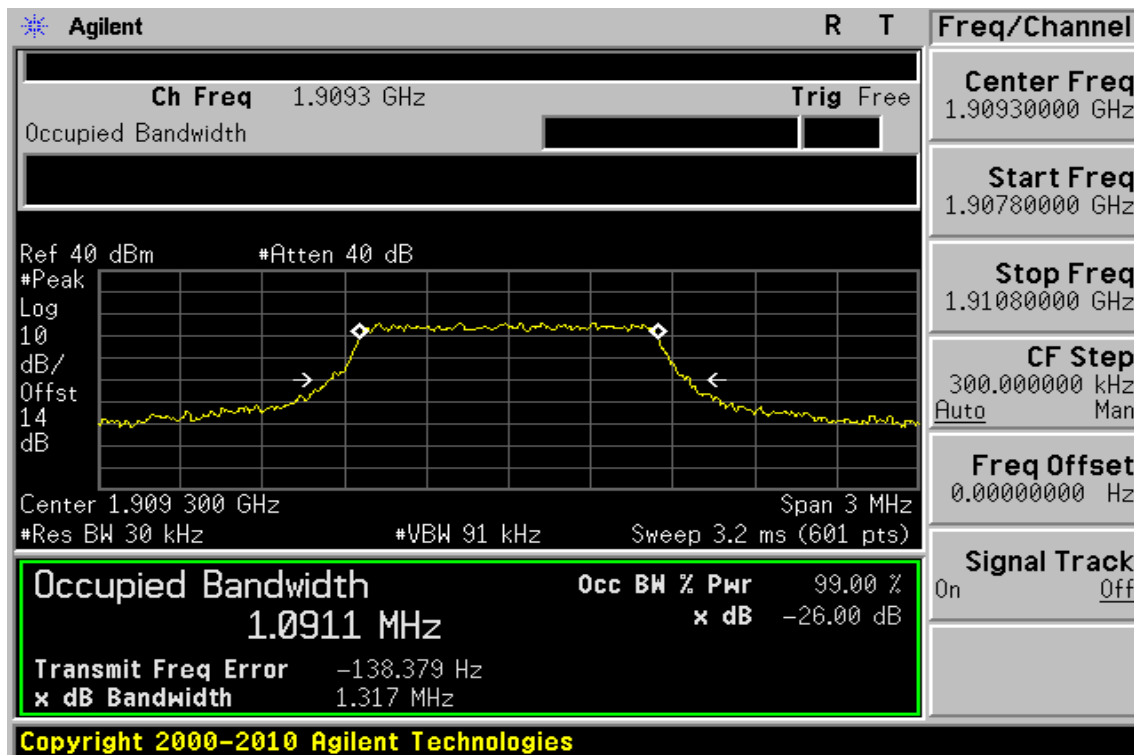
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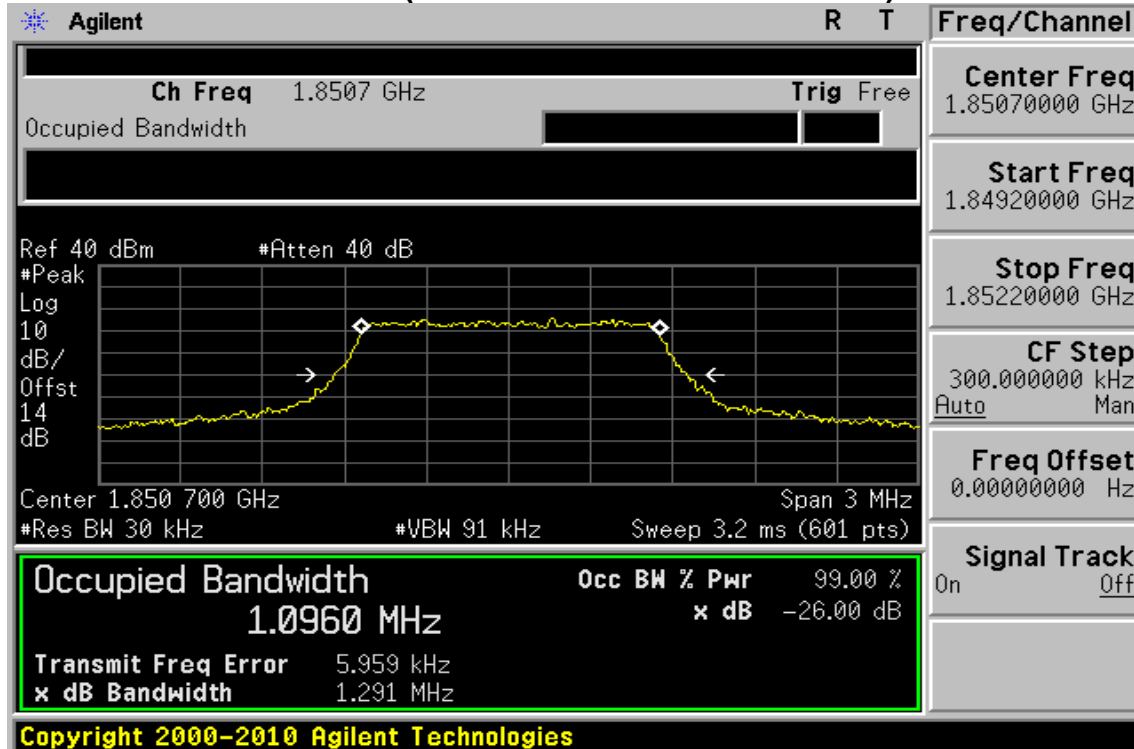
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High



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



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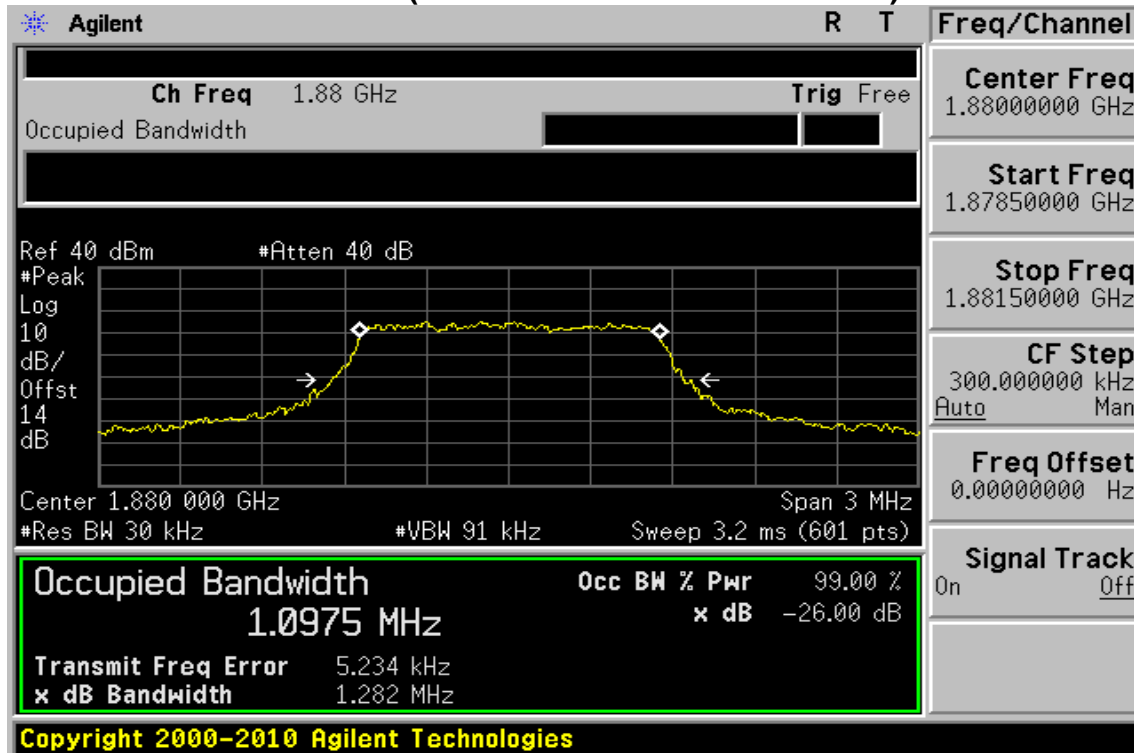
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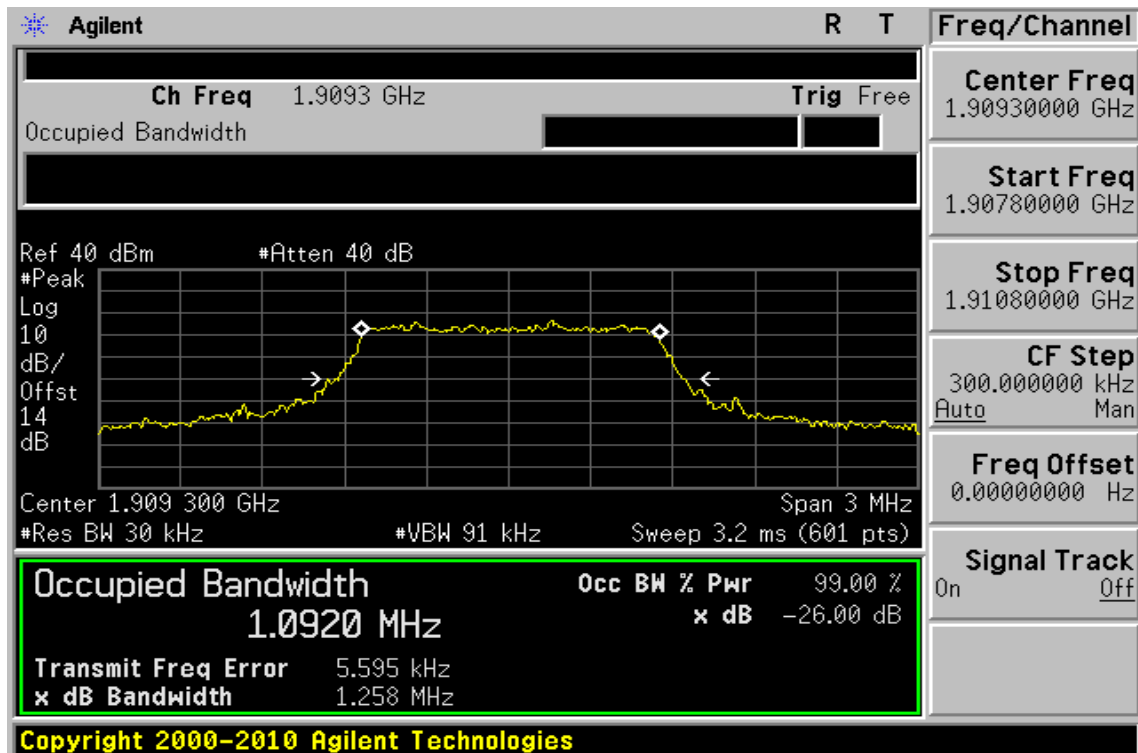
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1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid



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



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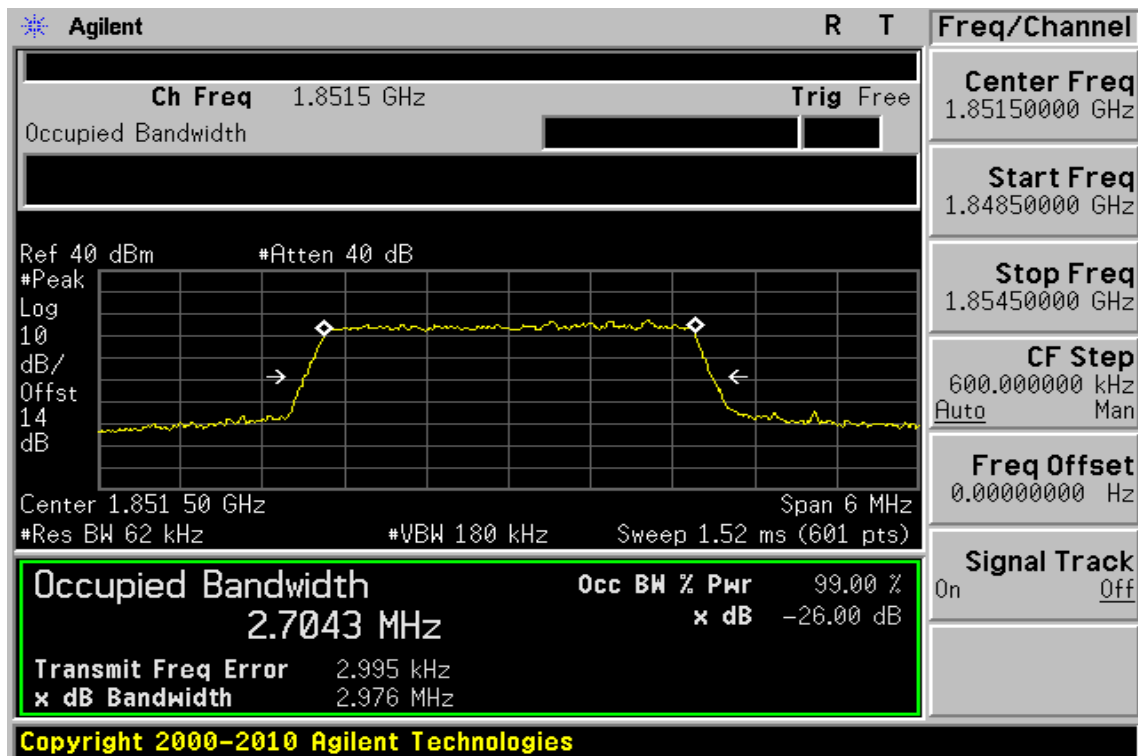
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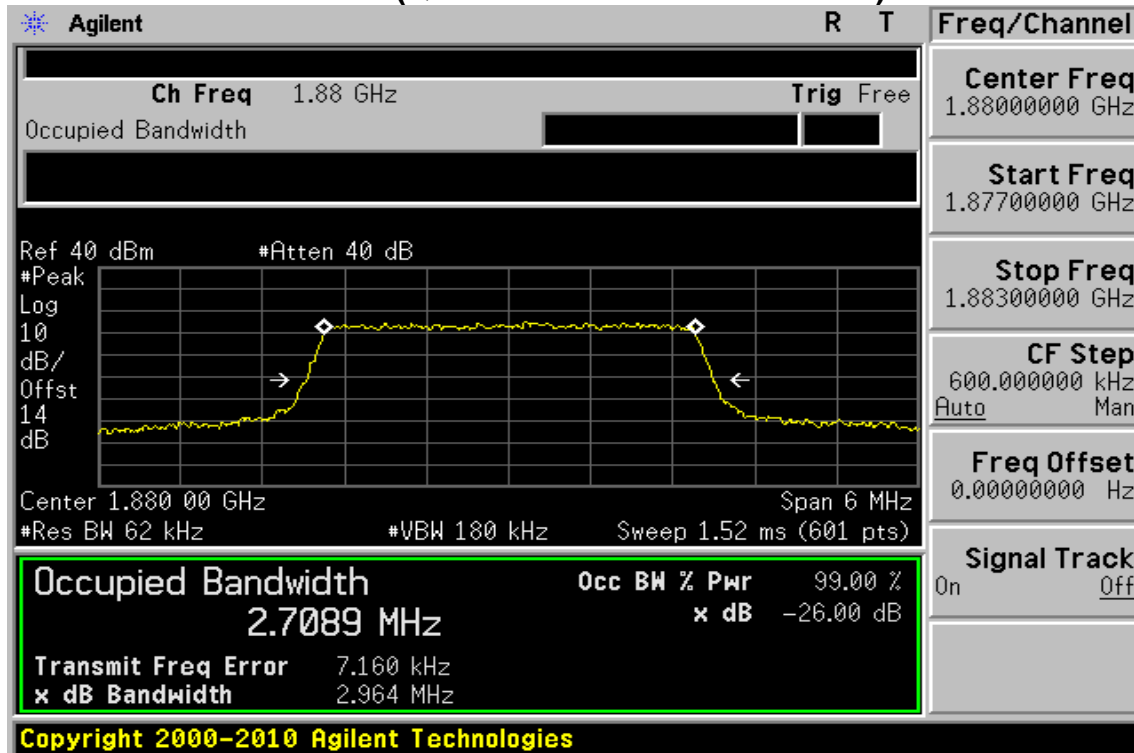
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low



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



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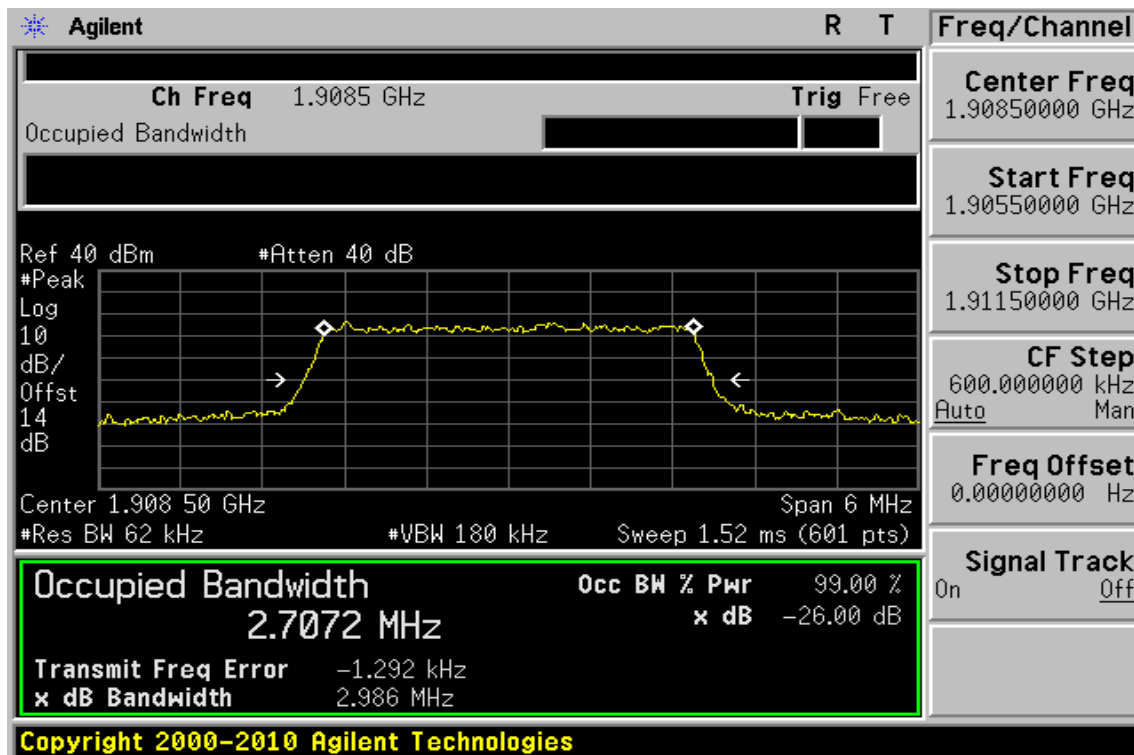
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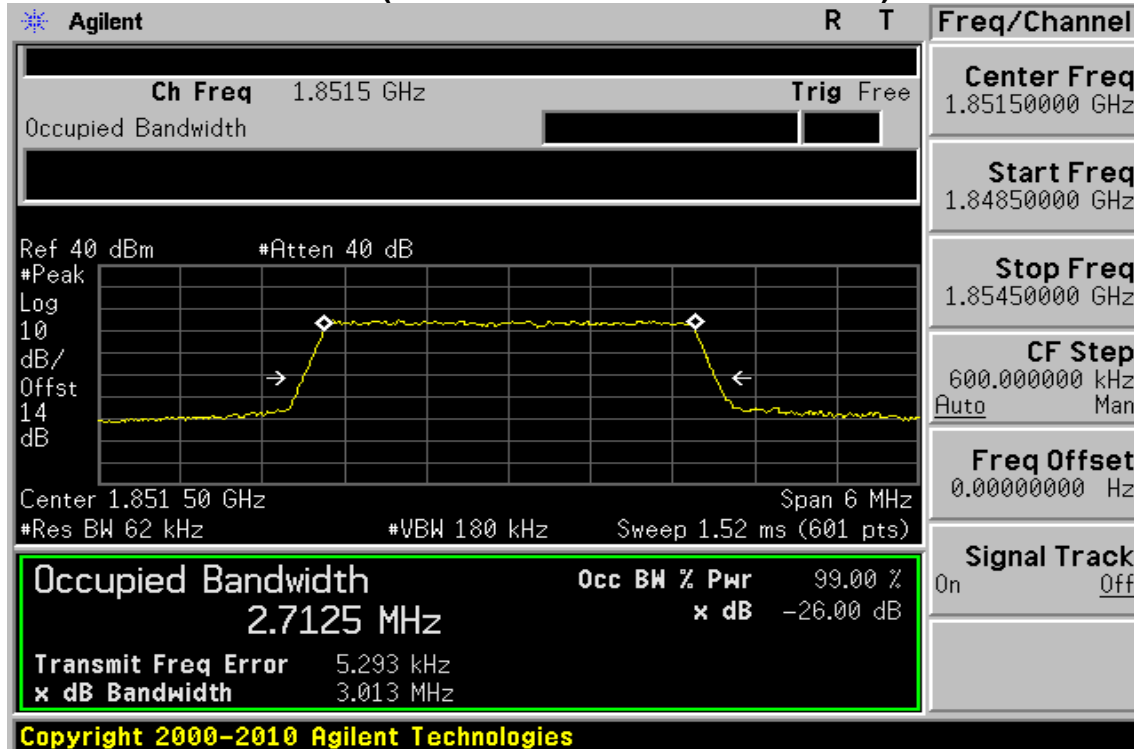
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High



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



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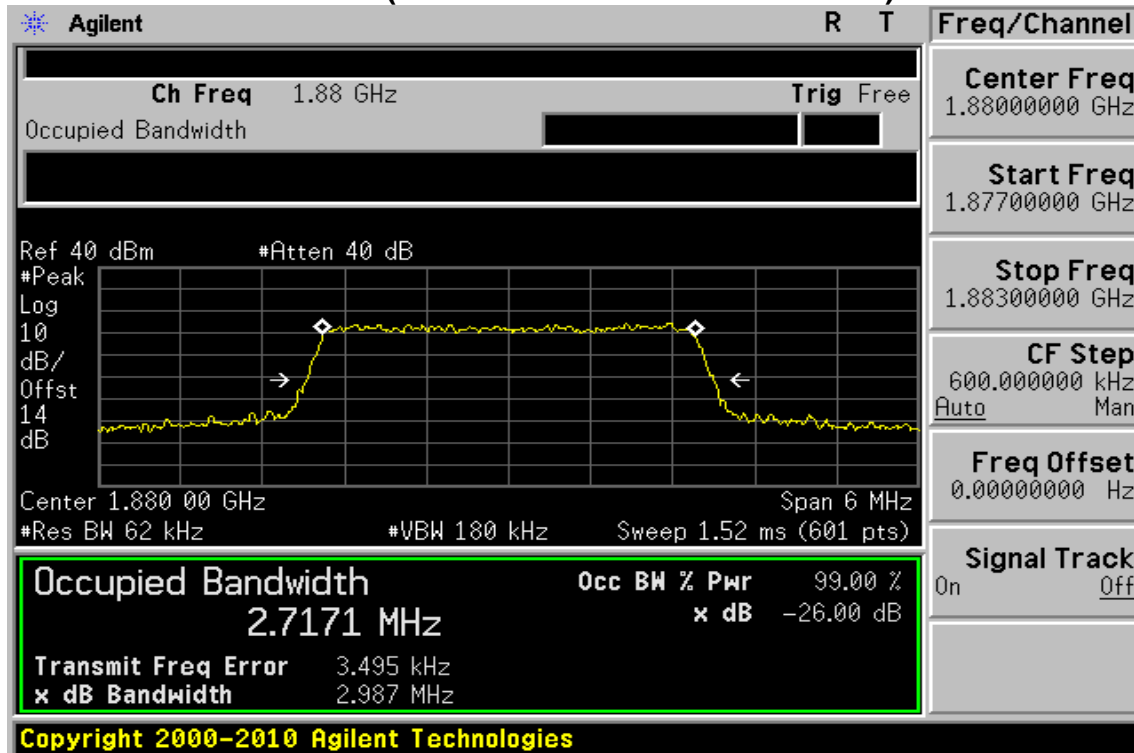
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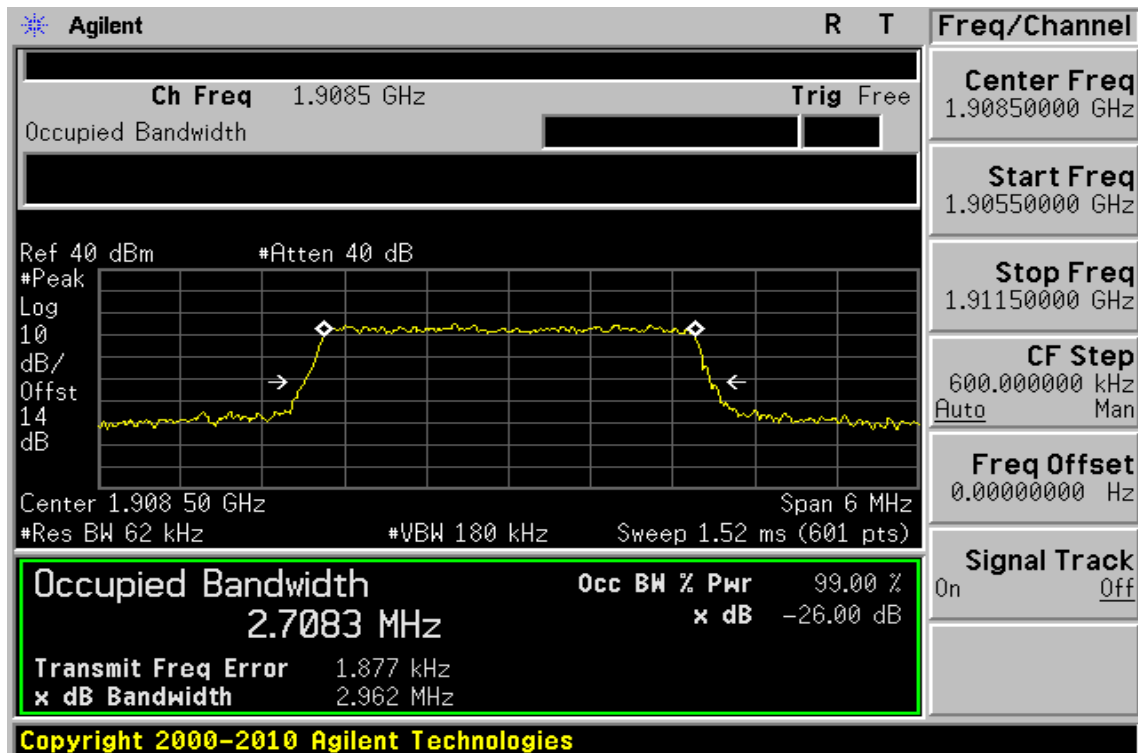
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3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid



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



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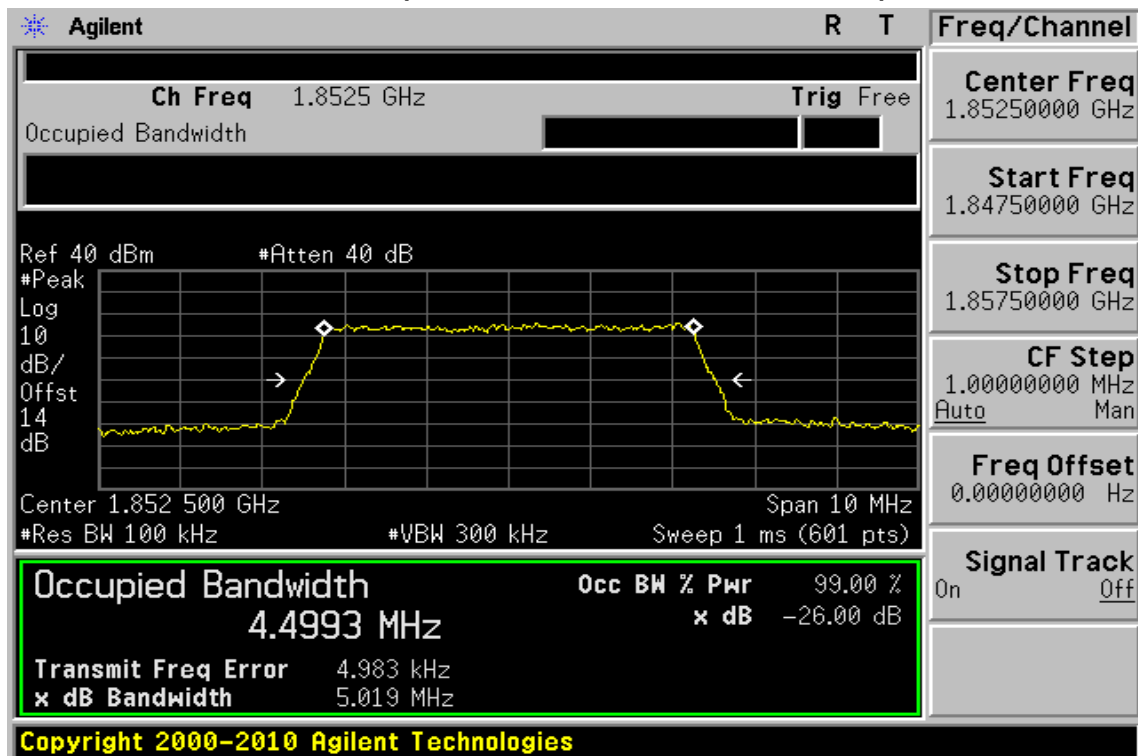
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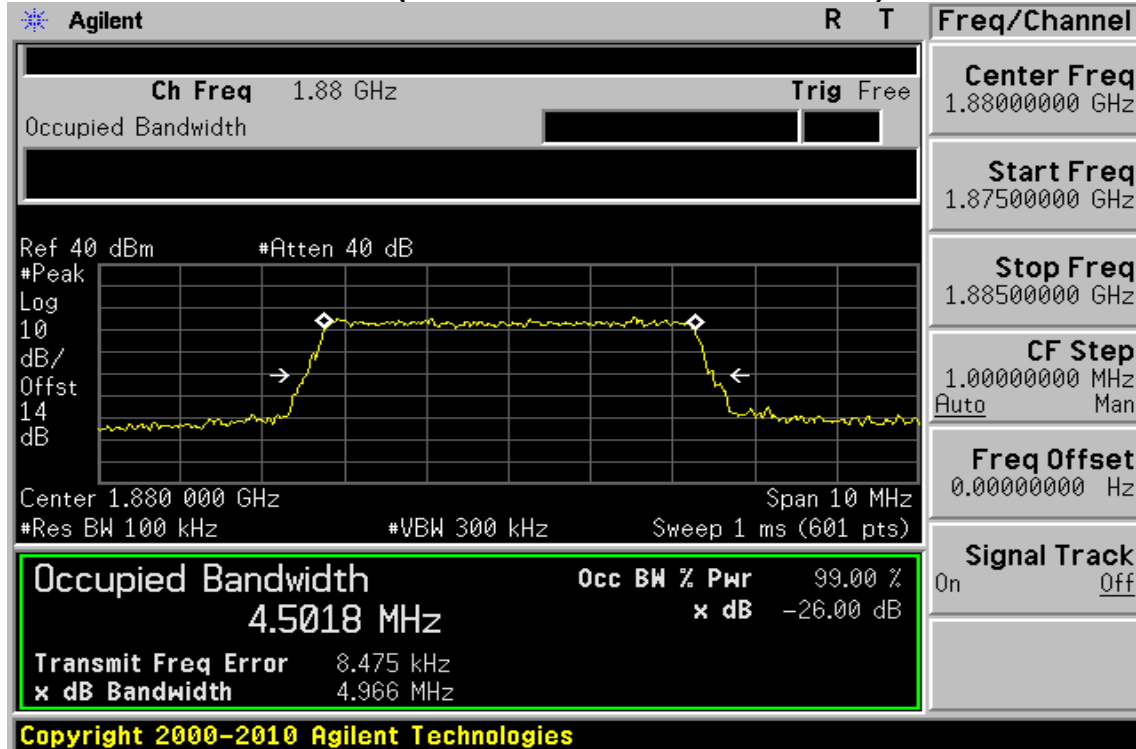
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low



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



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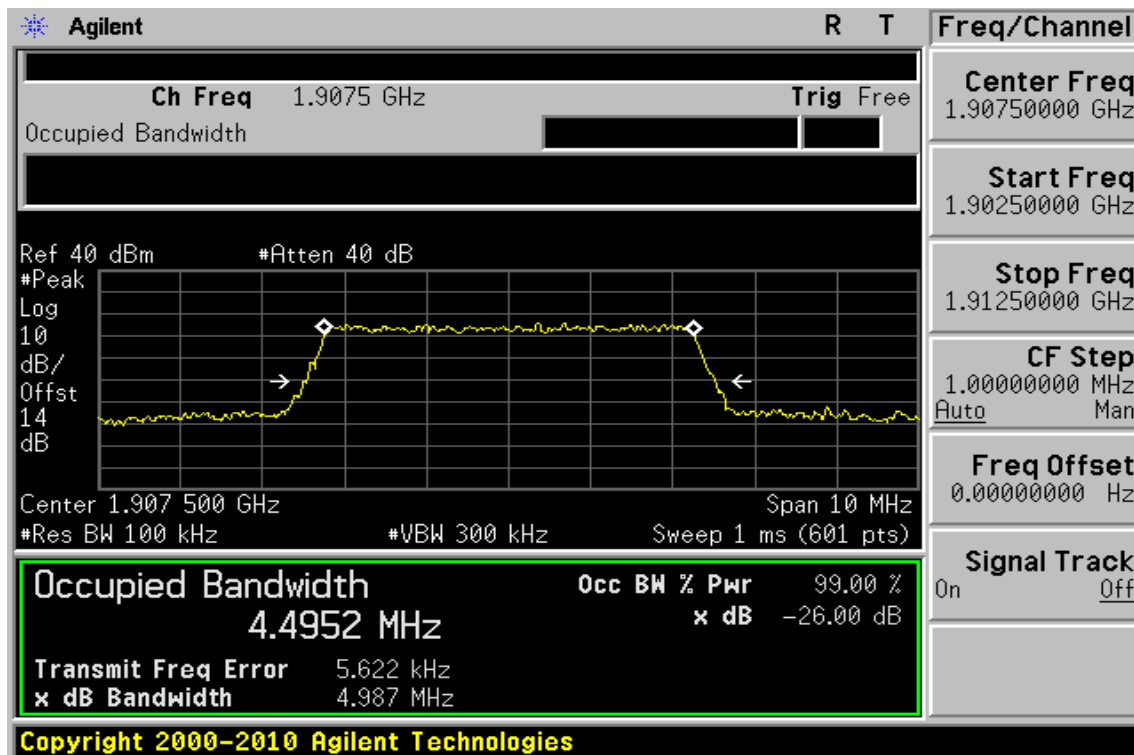
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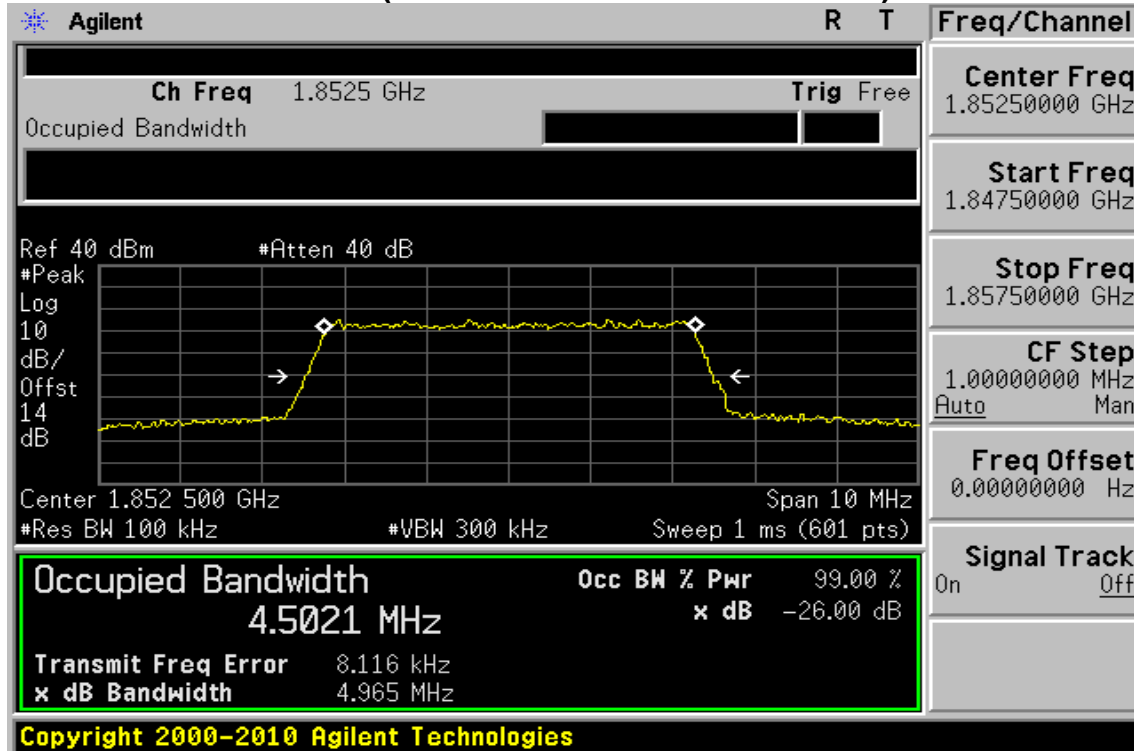
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High



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



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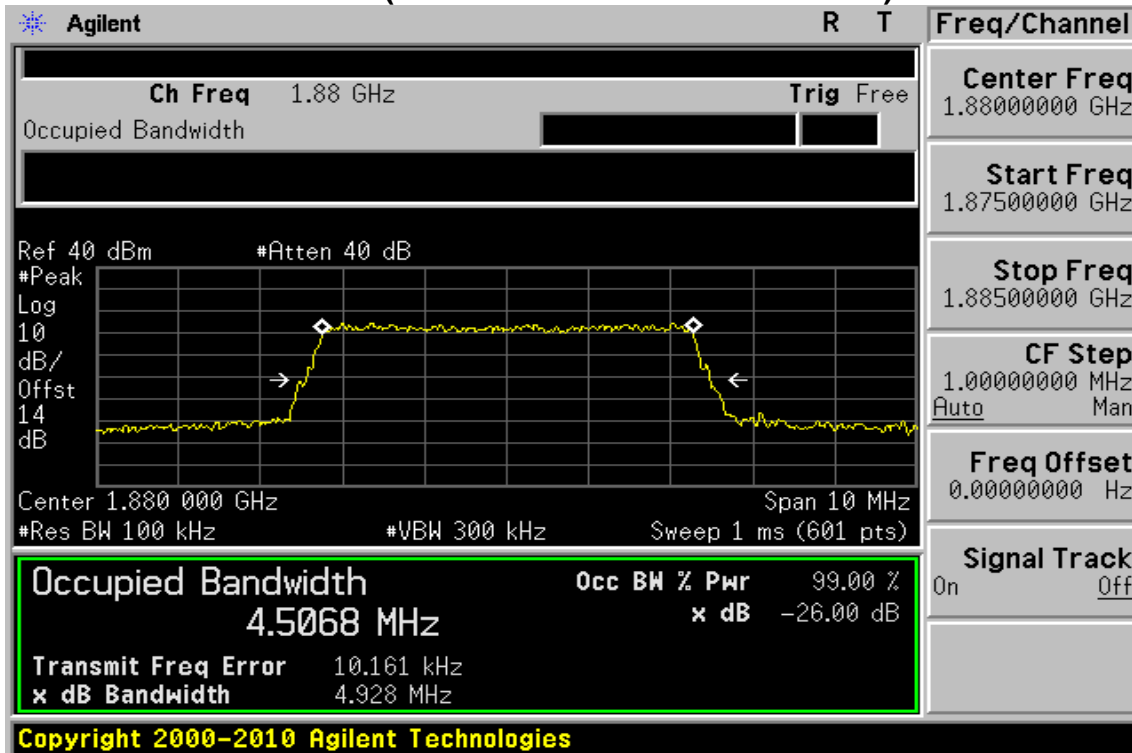
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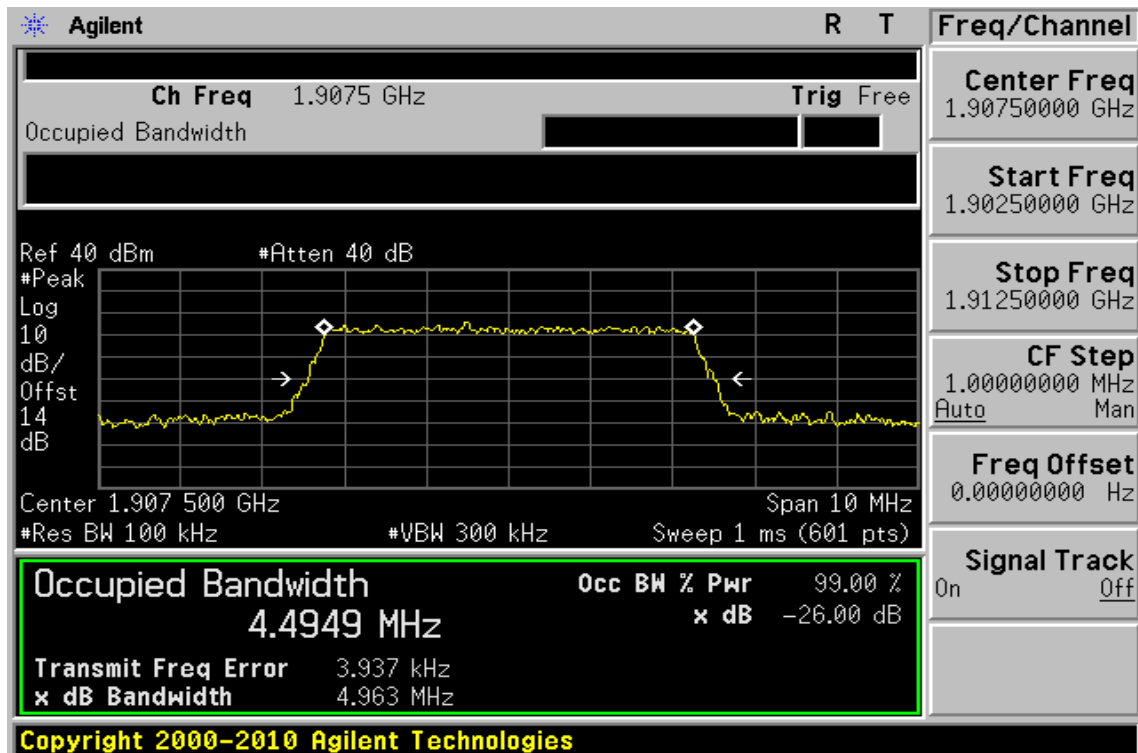
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5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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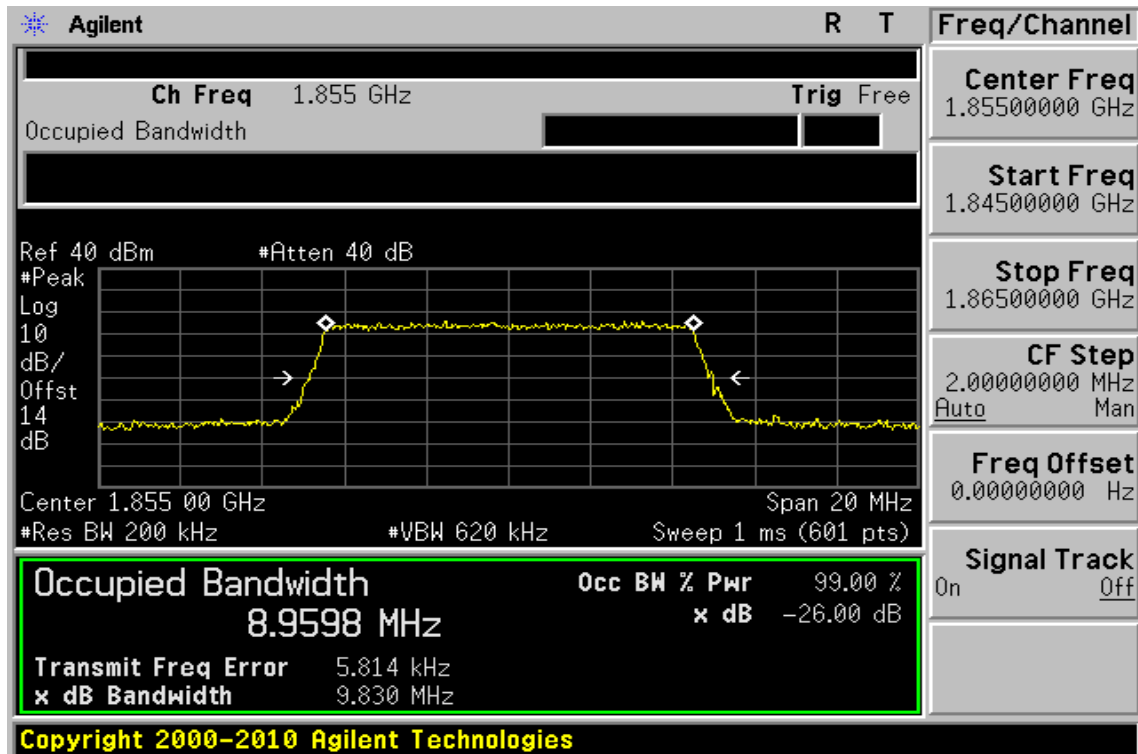
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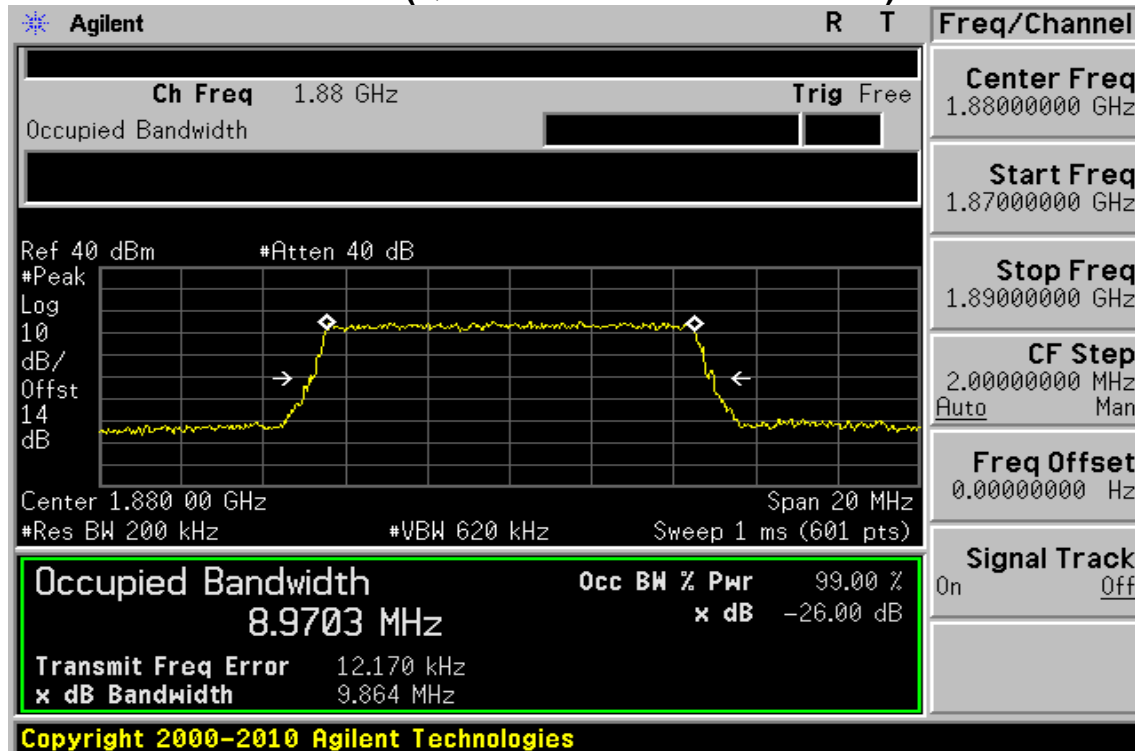
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10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low



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



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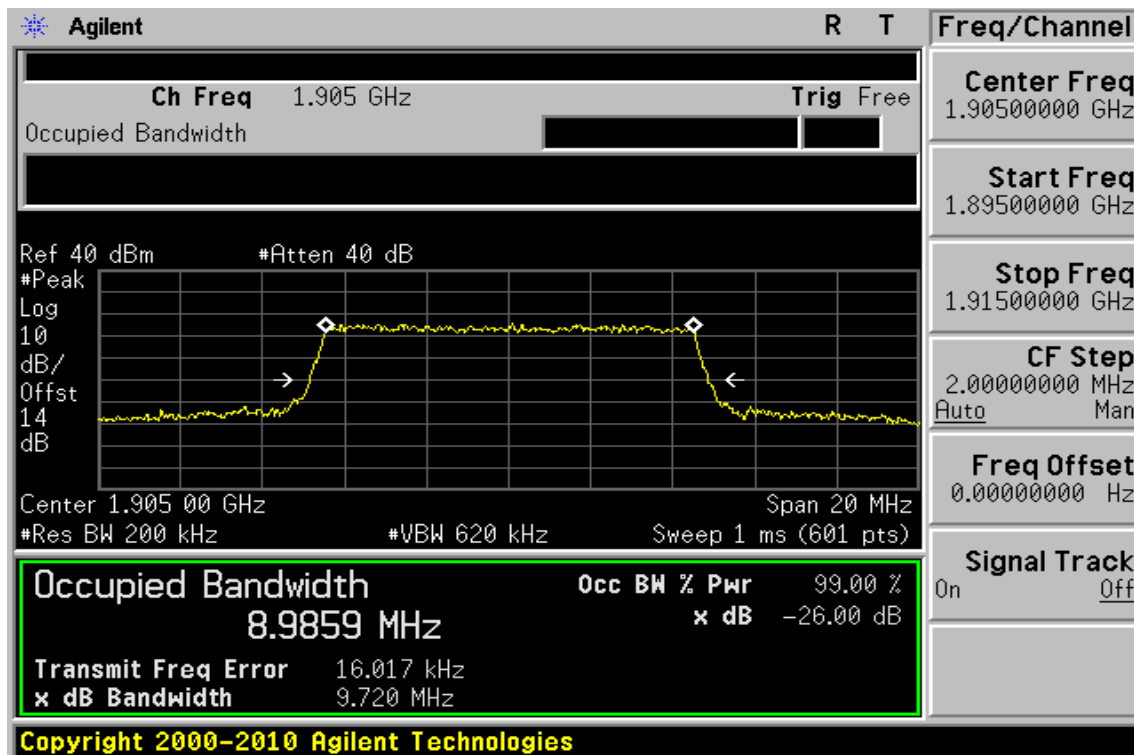
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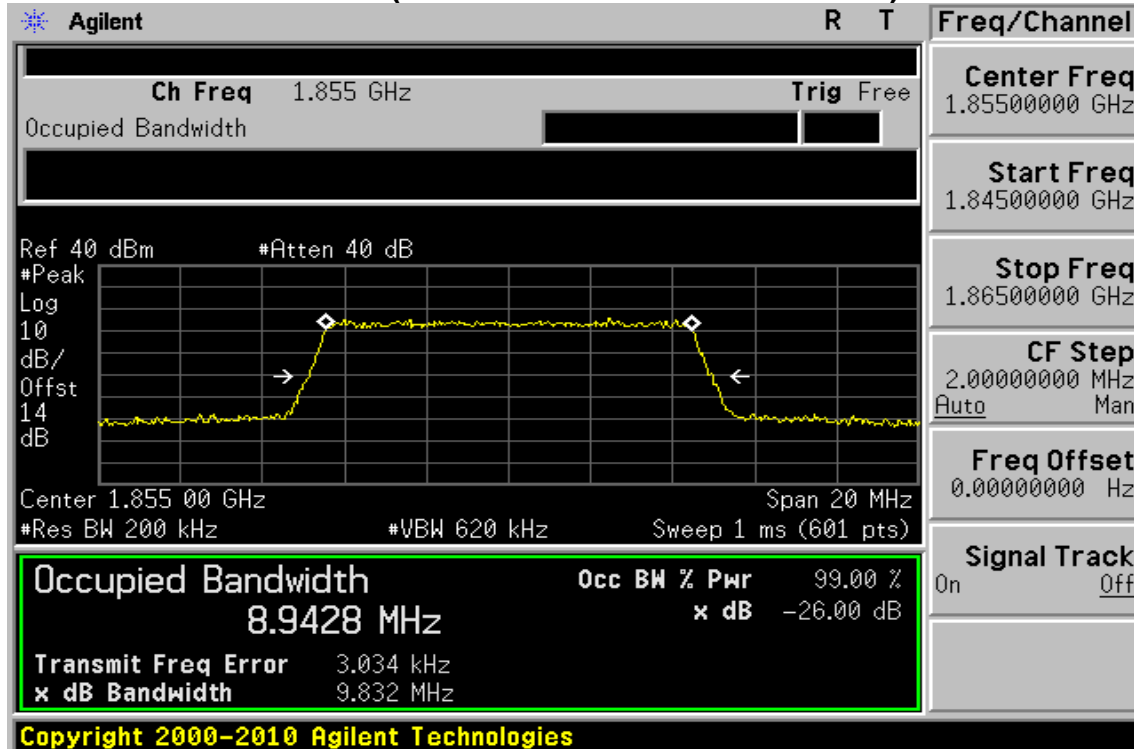
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10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel High



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



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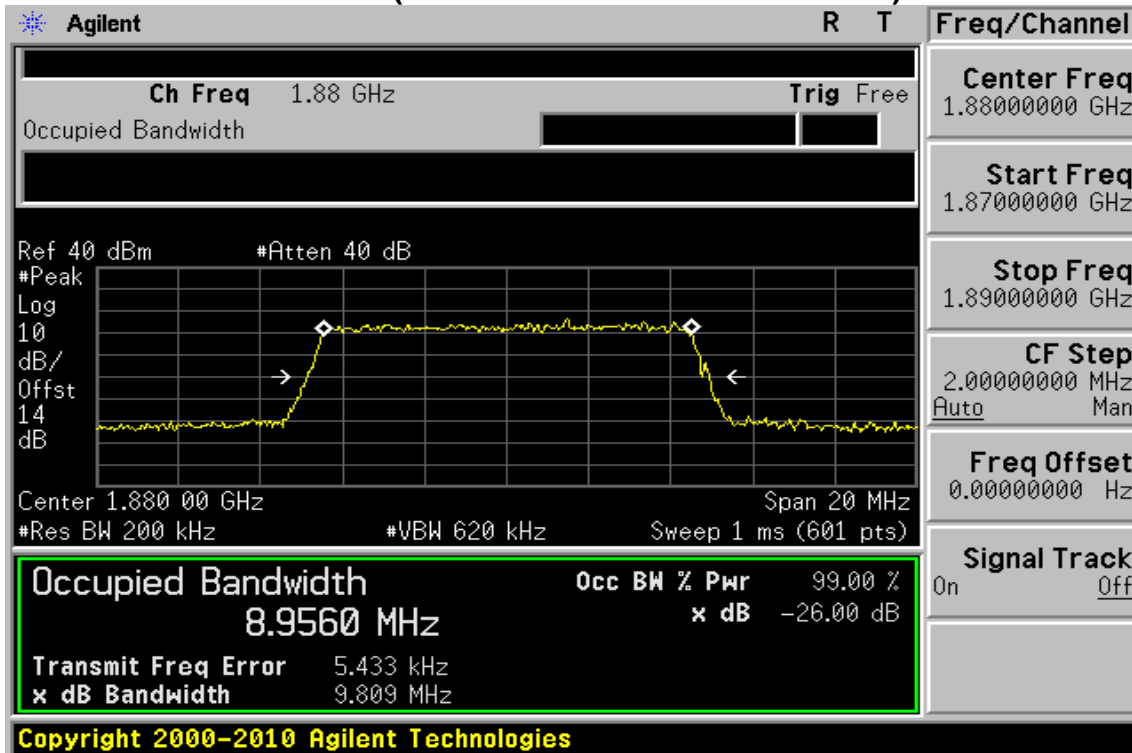
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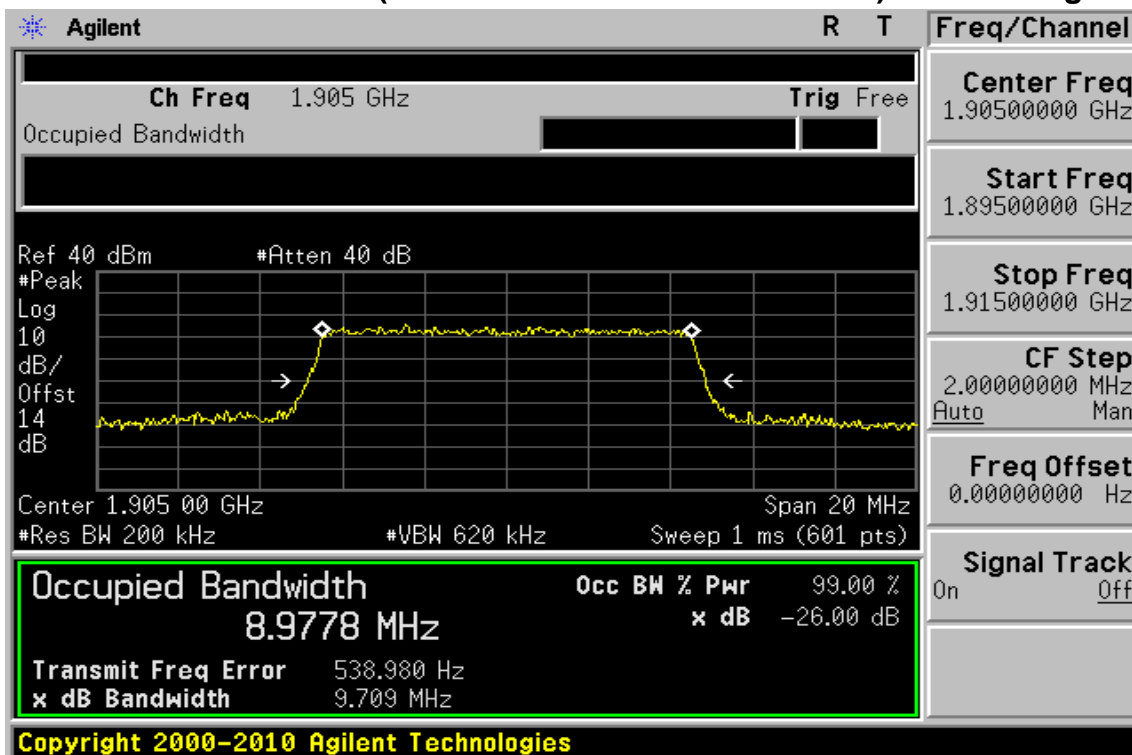
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10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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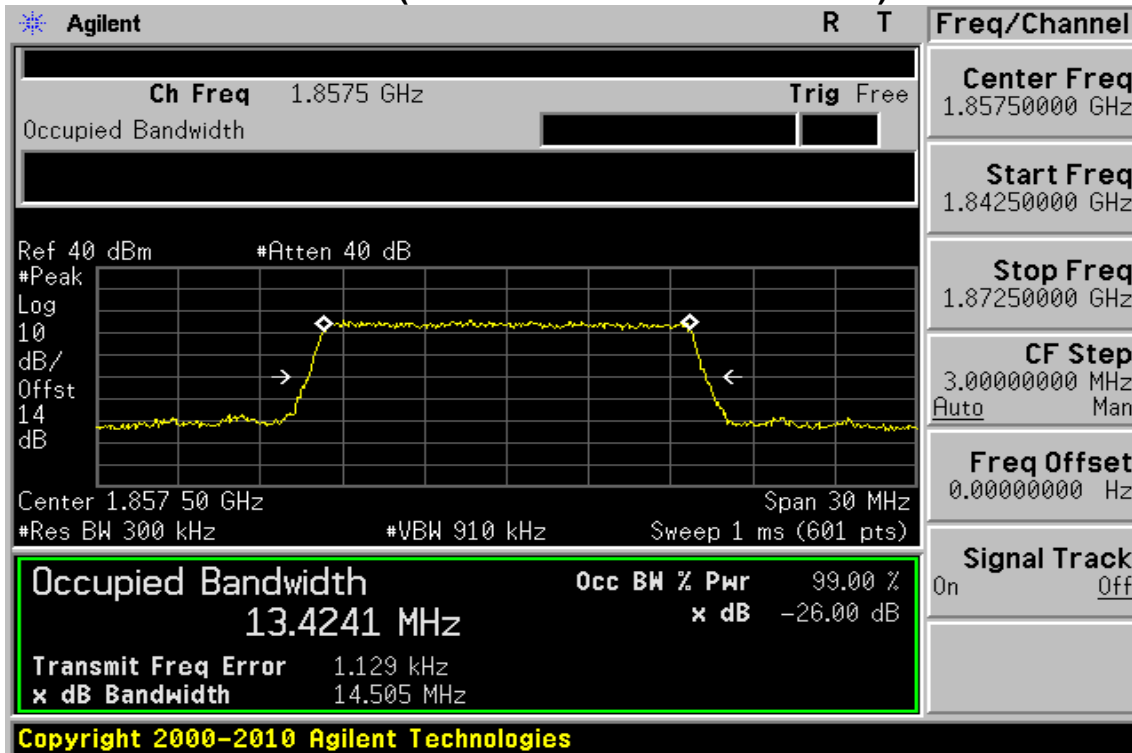
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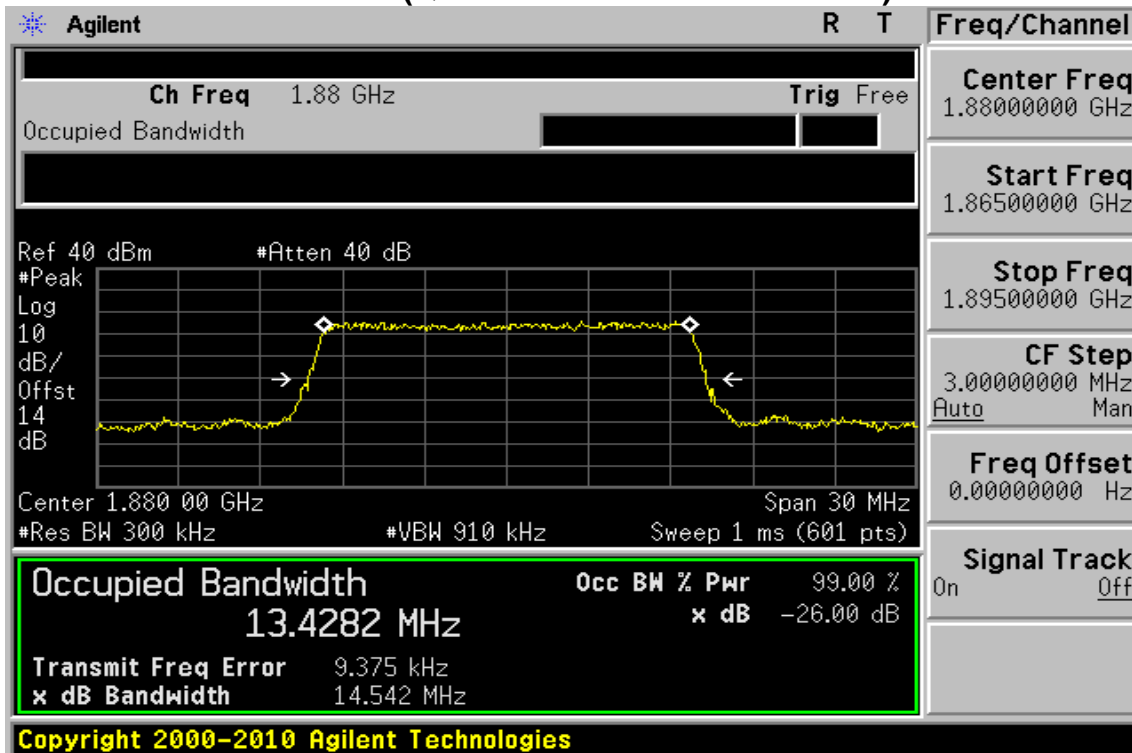
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low



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



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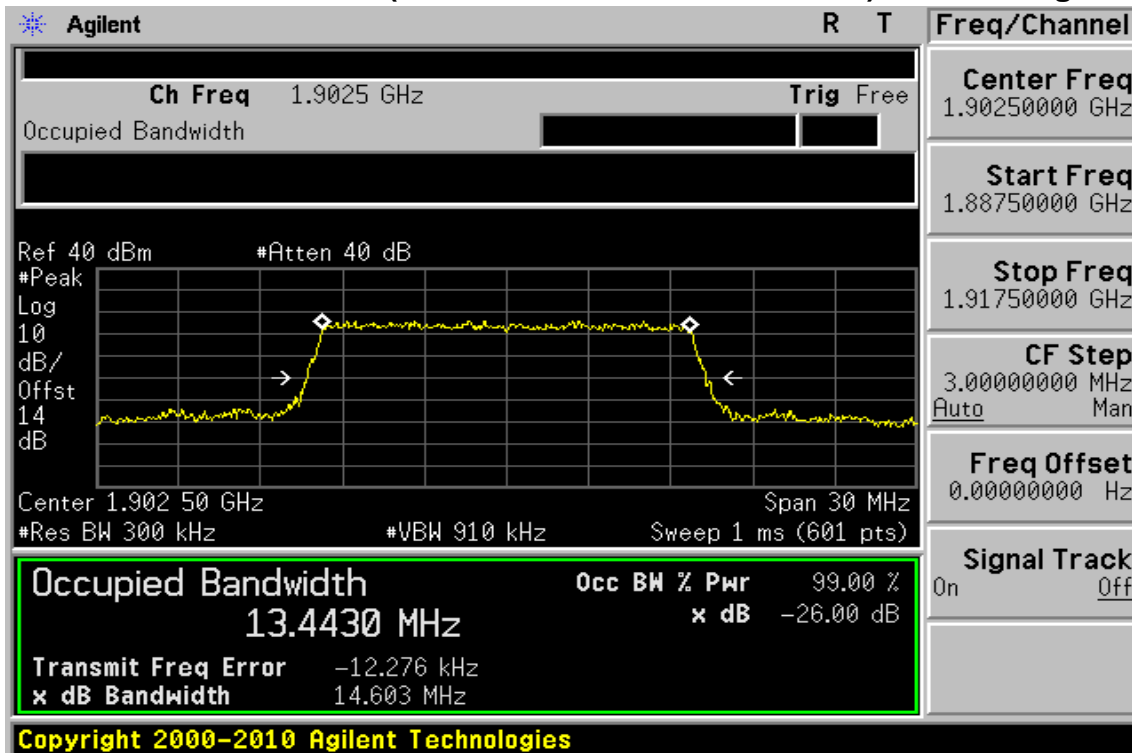
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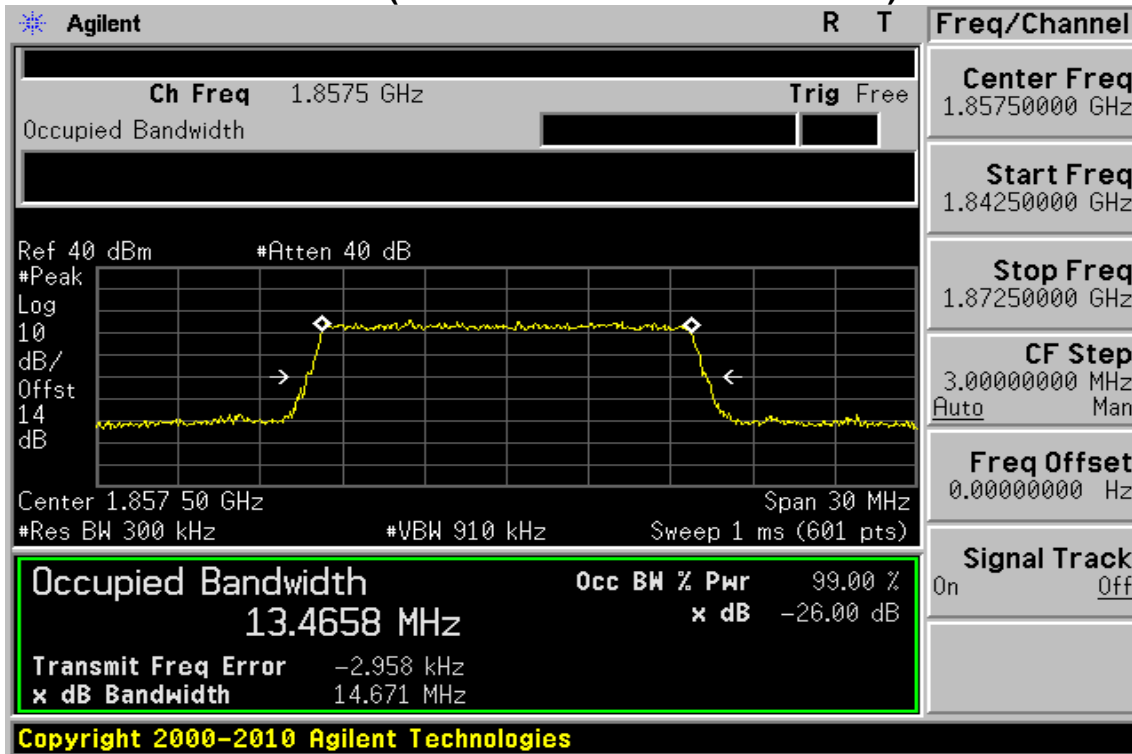
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High



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



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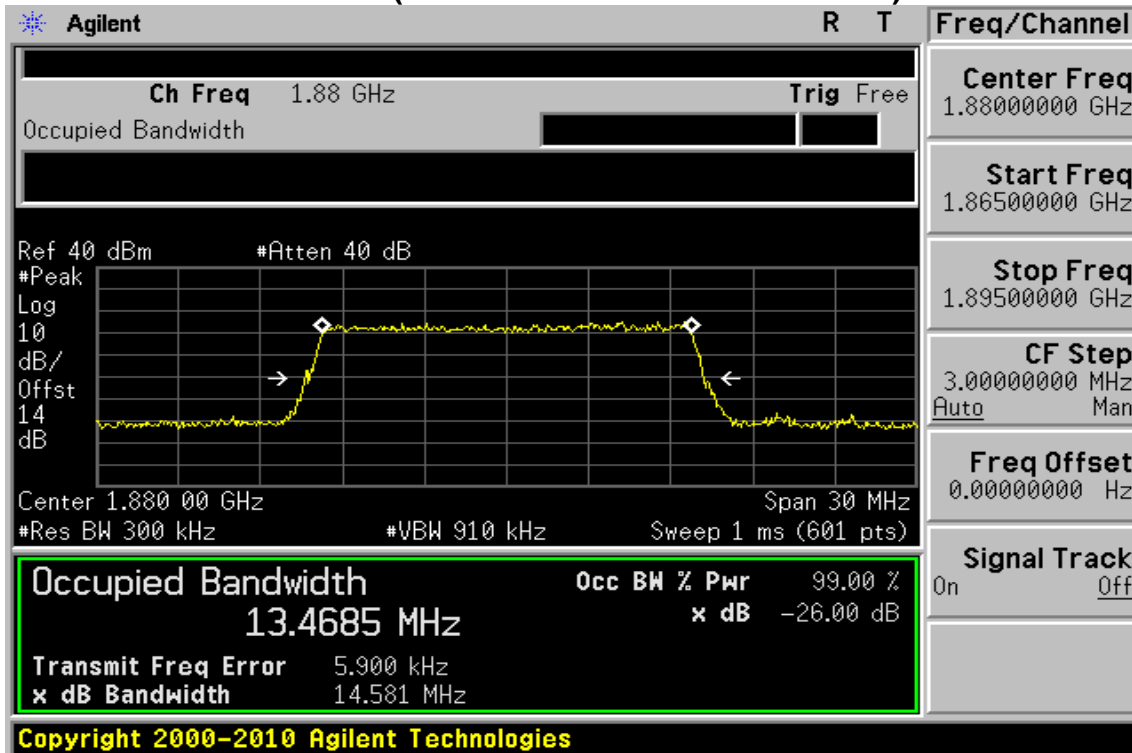
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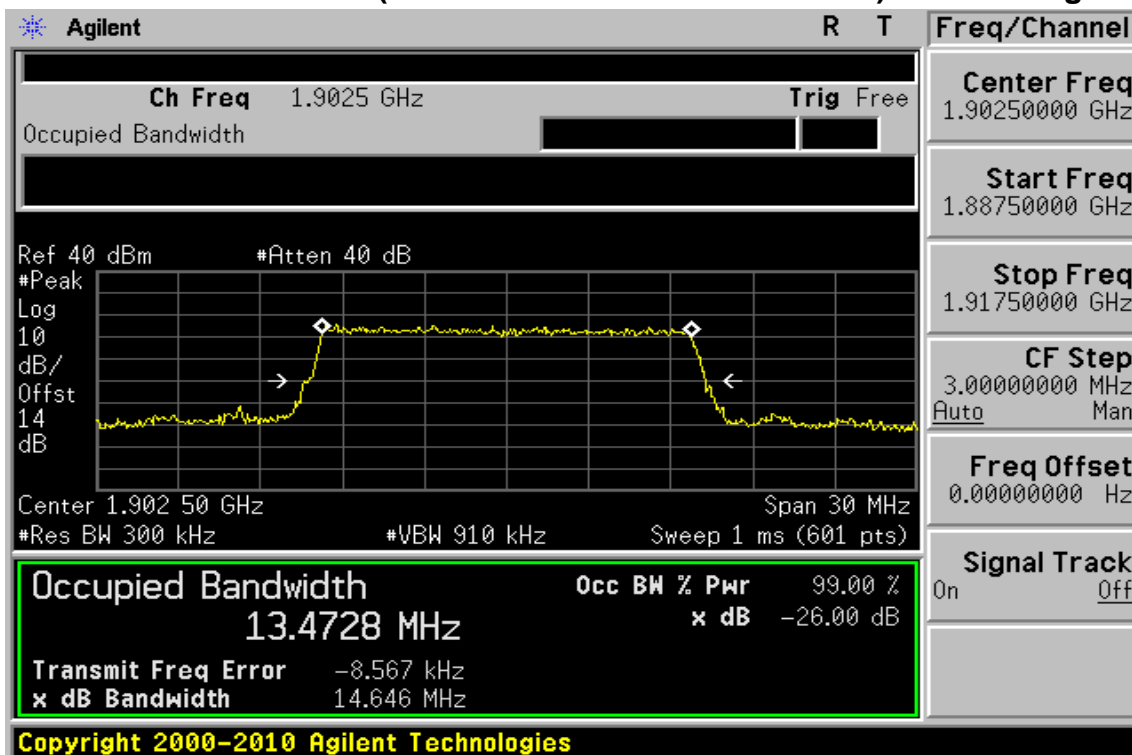
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15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid



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



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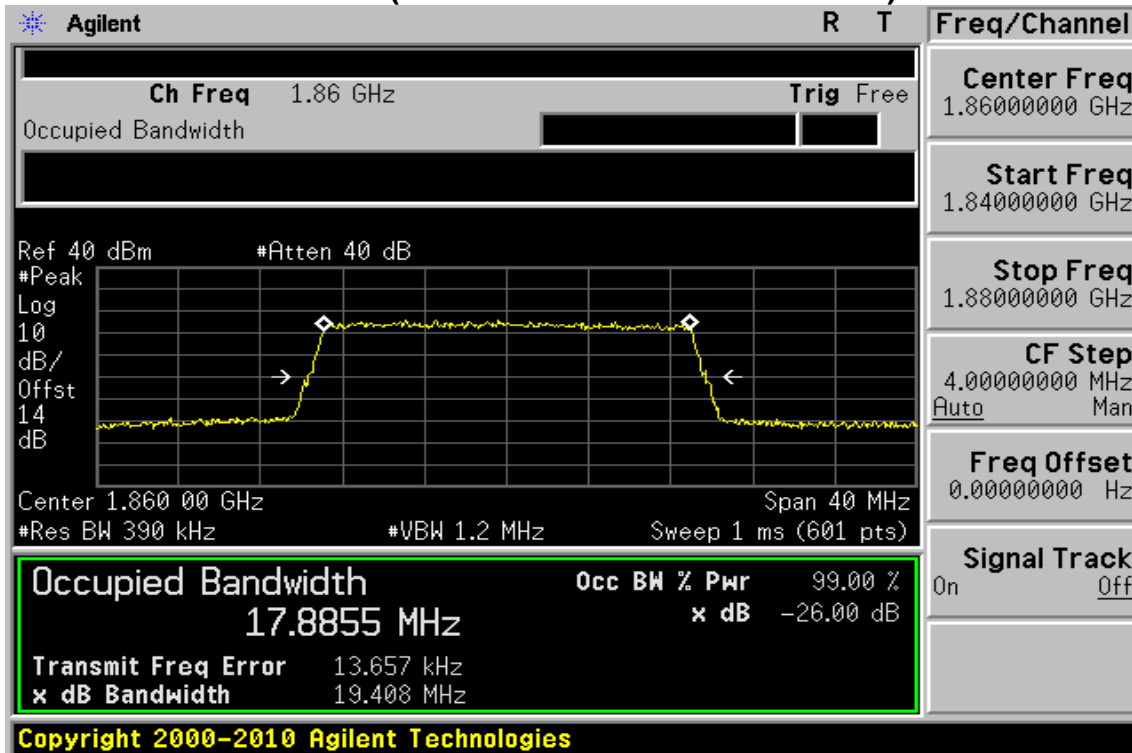
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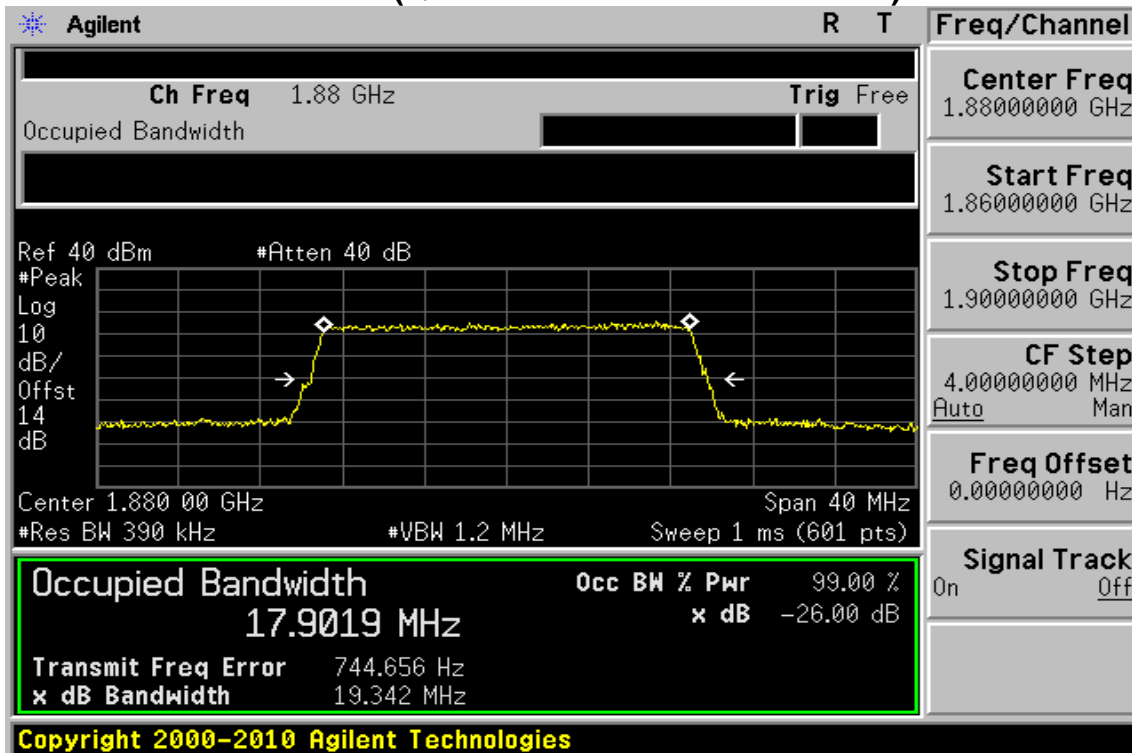
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low



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



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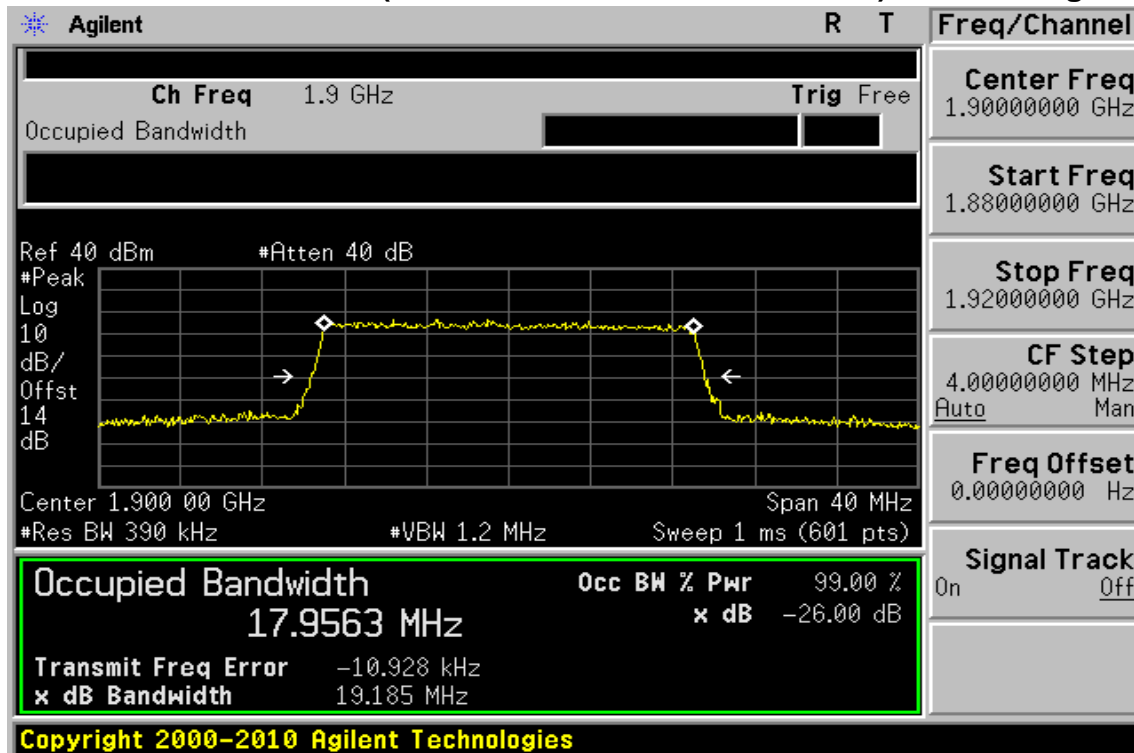
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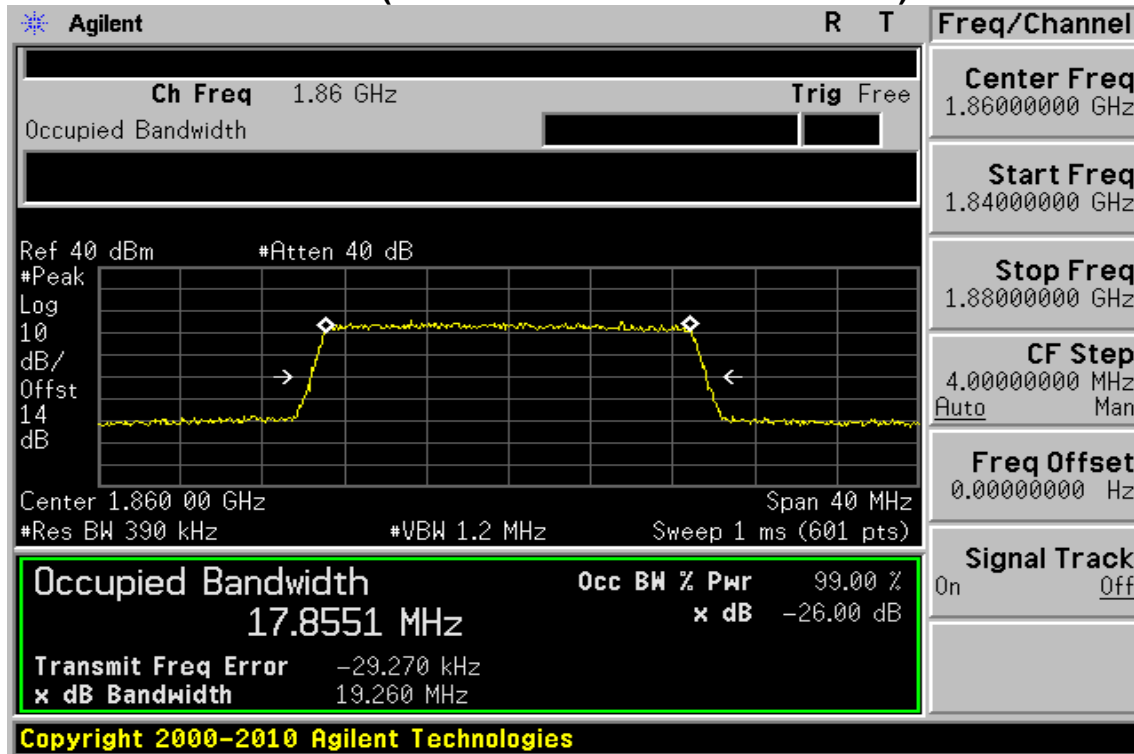
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High



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



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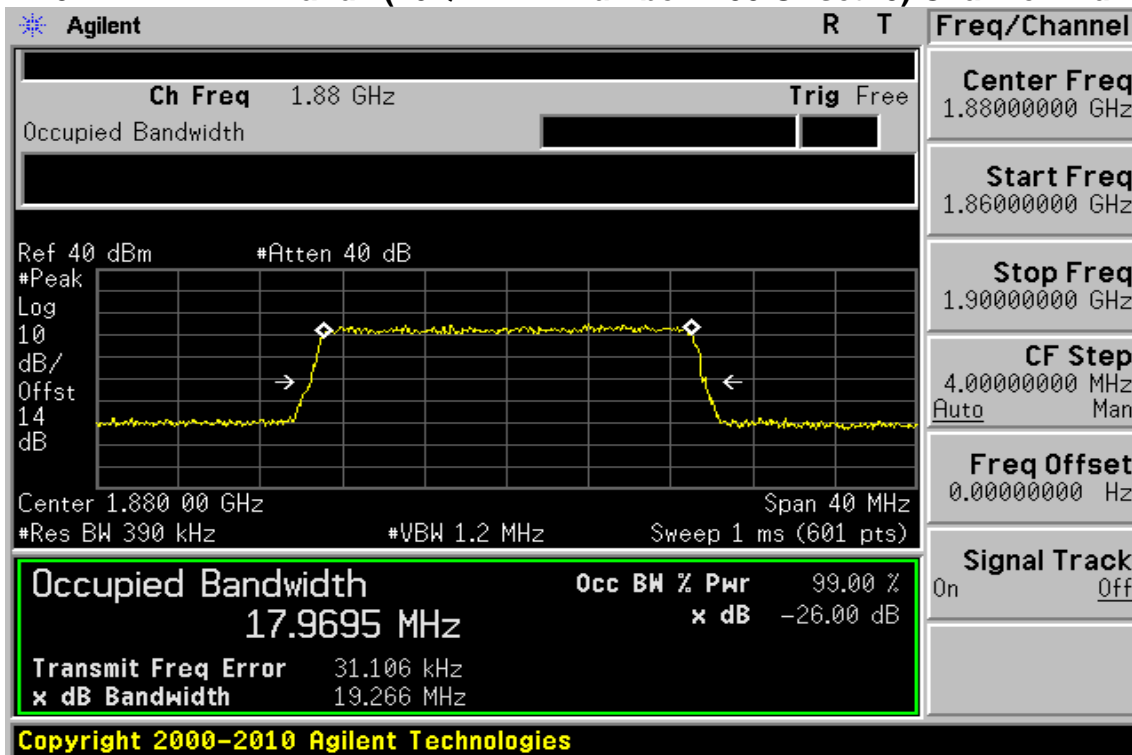
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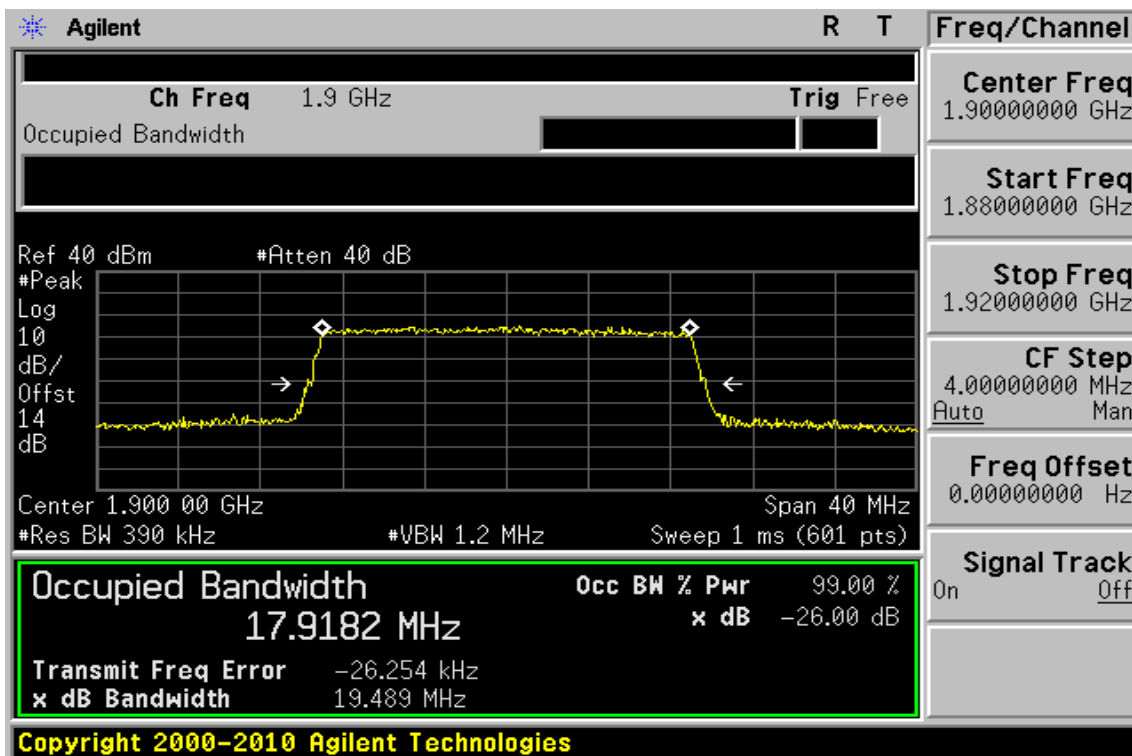
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20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid



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



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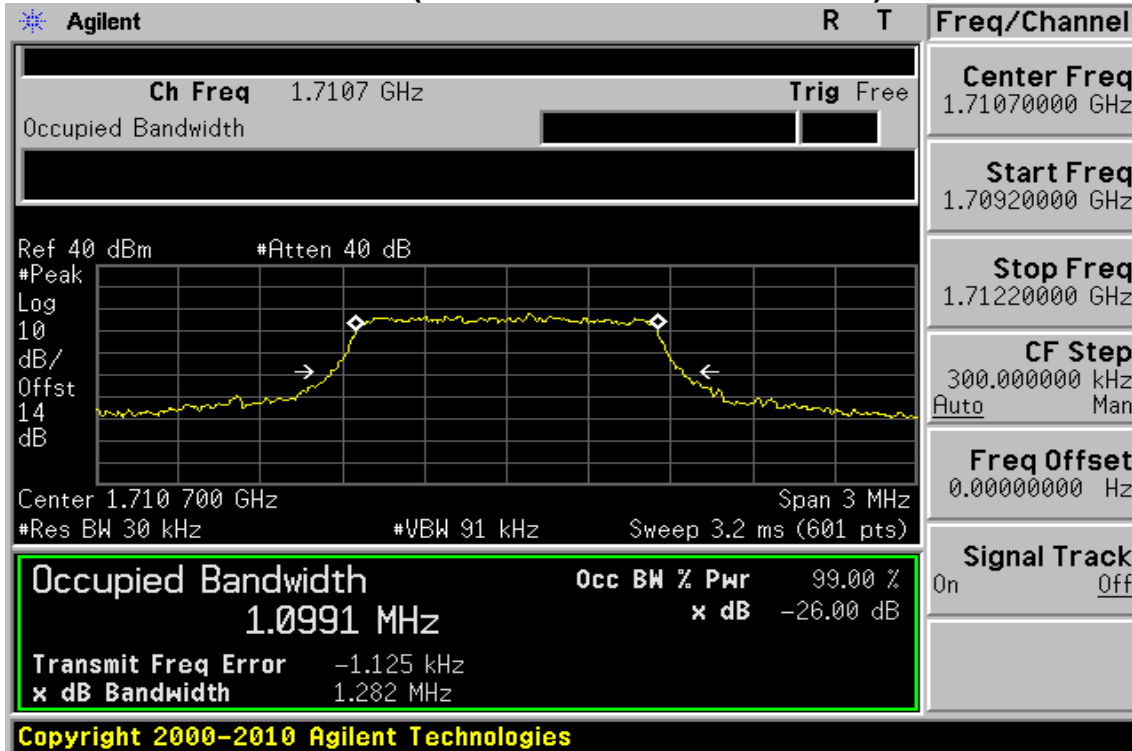
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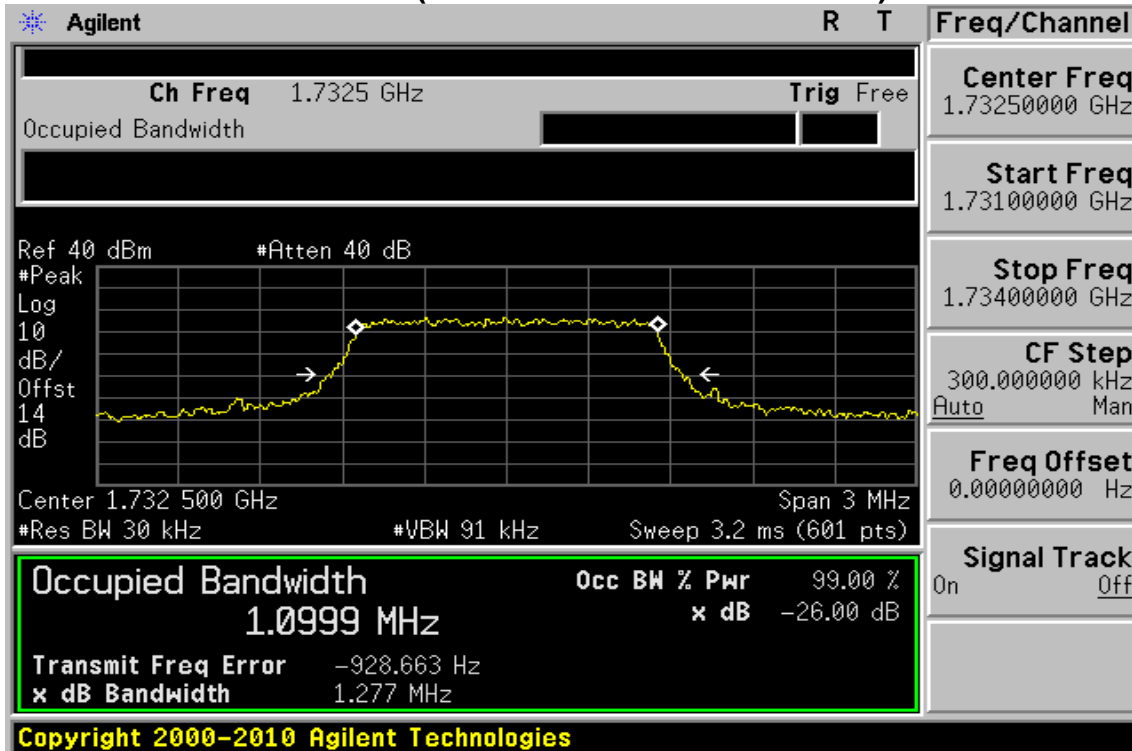
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low



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



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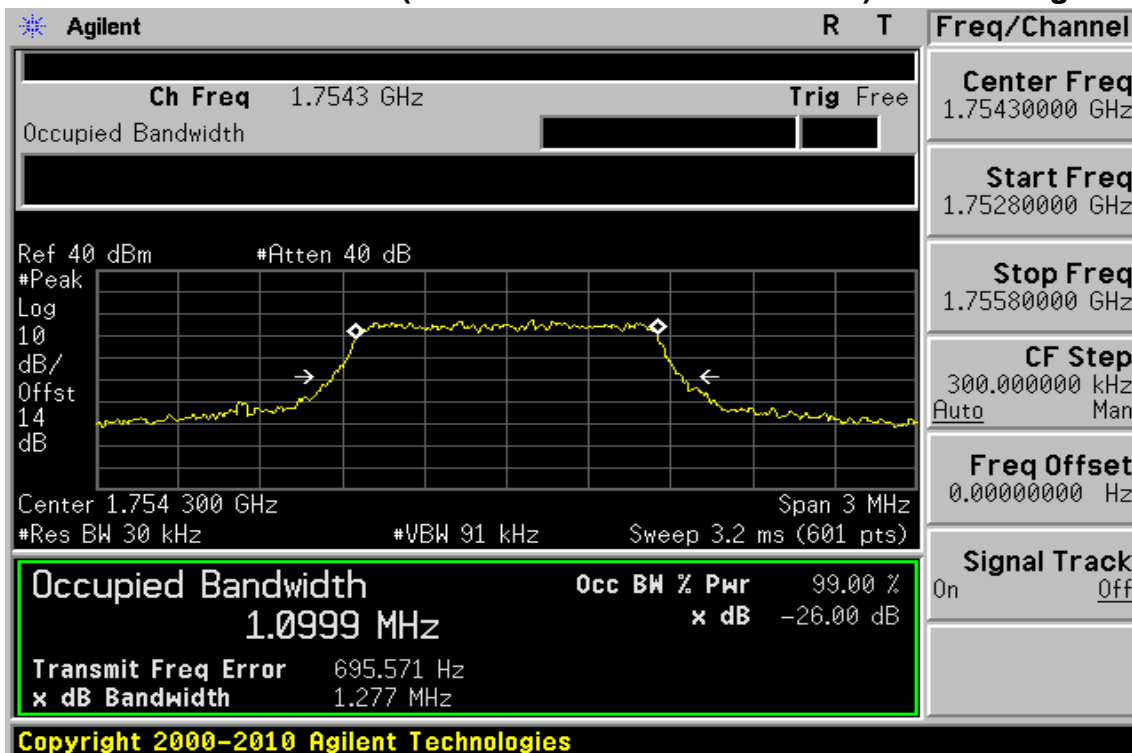
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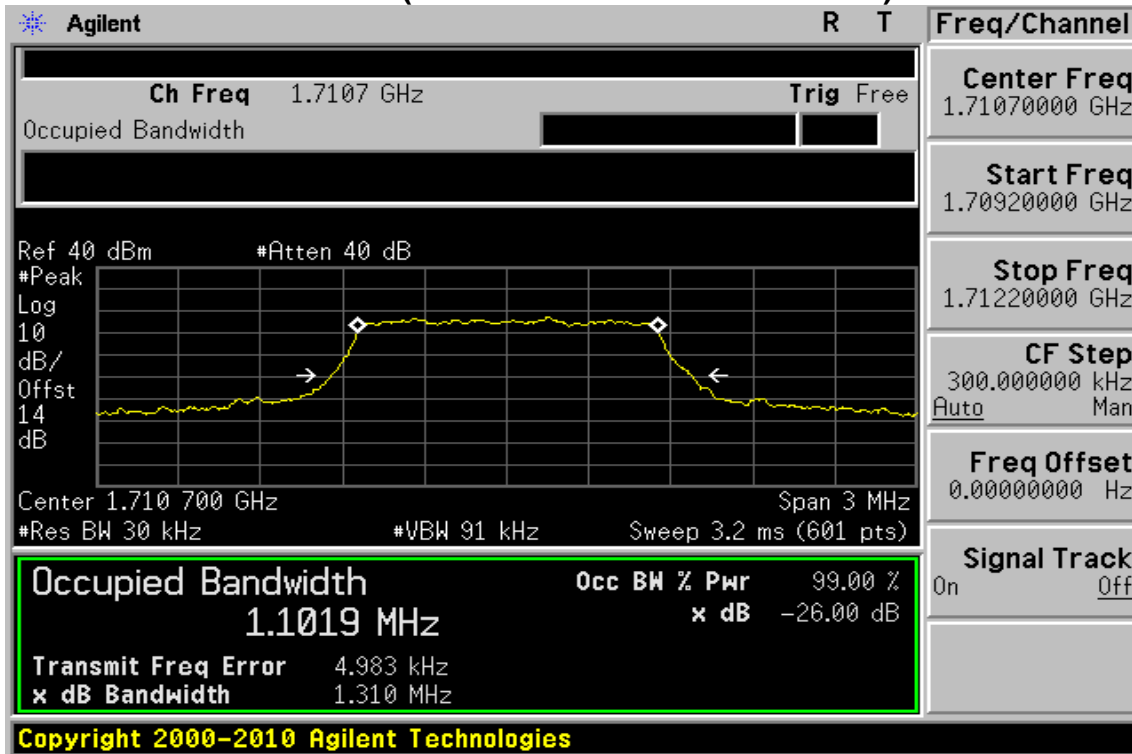
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High



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



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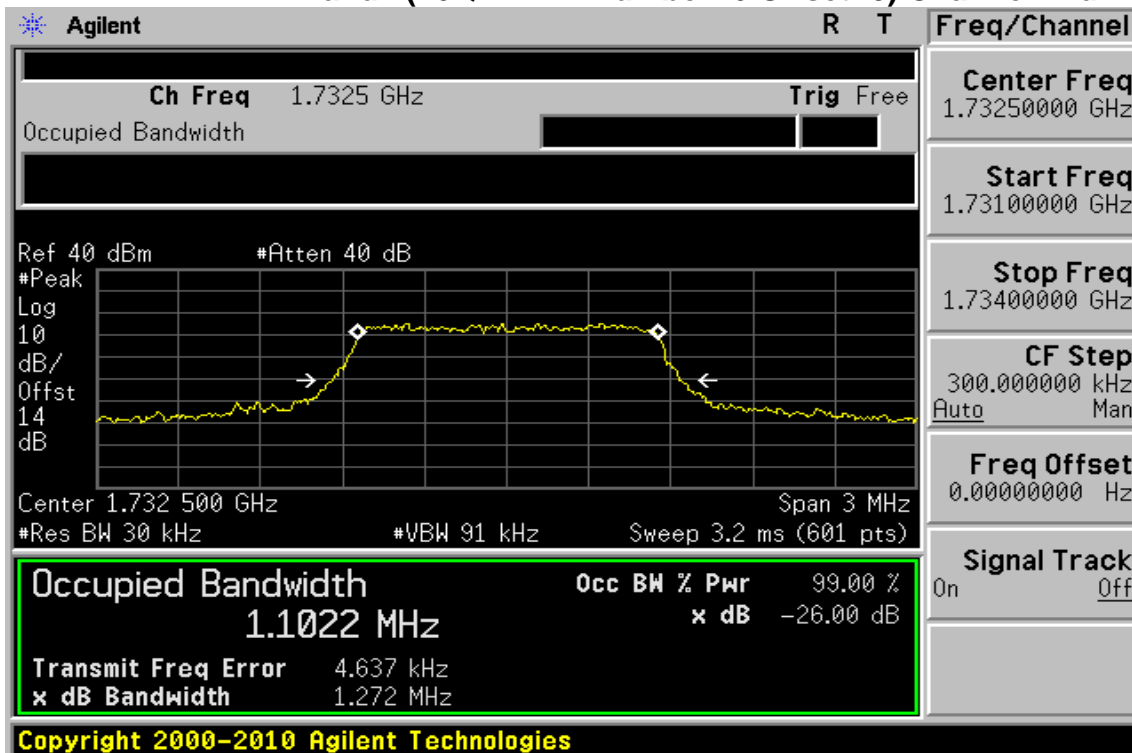
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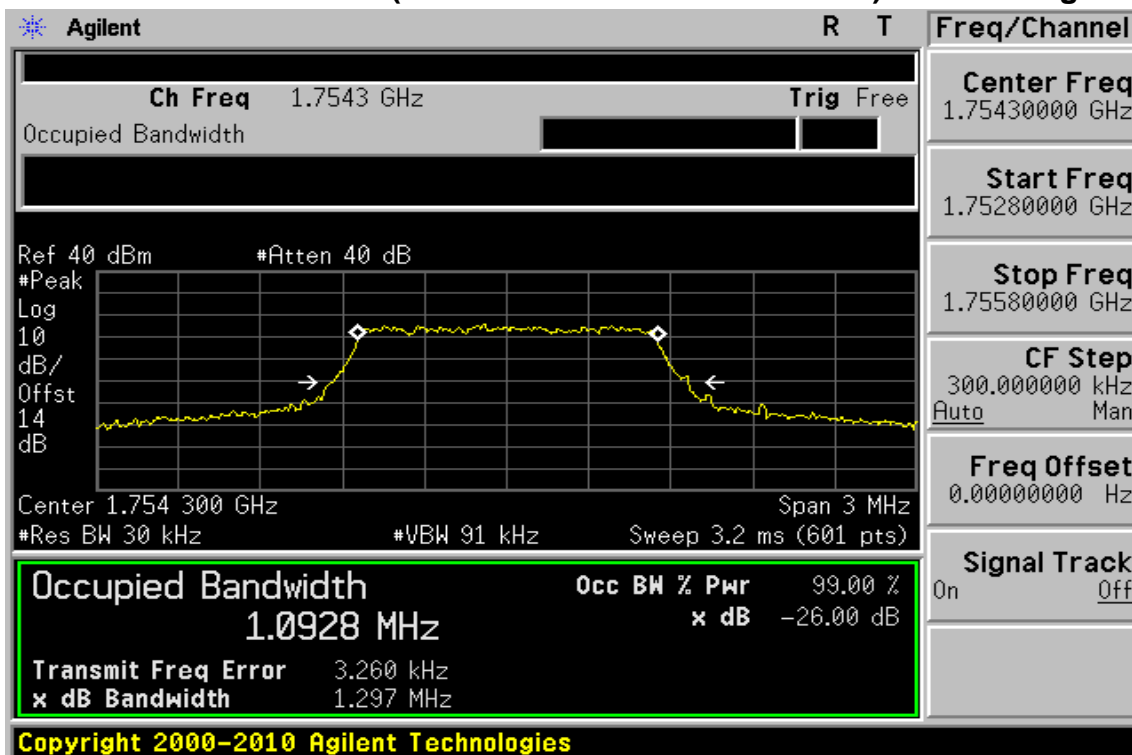
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1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid



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



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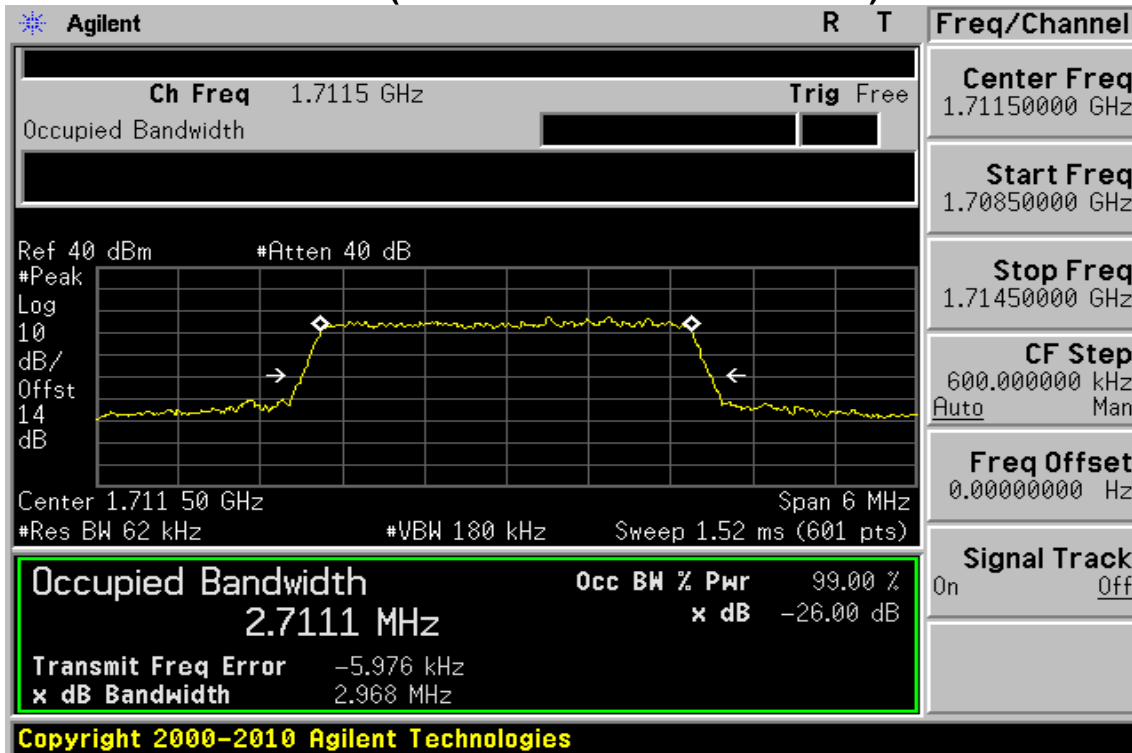
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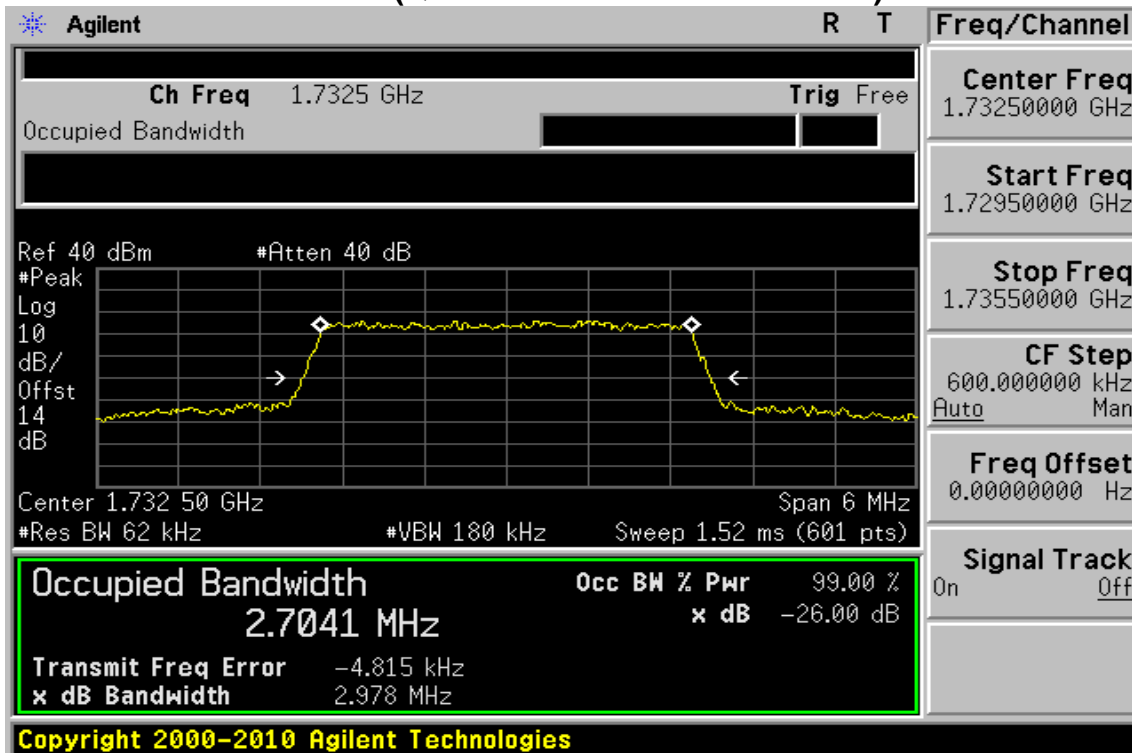
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low



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



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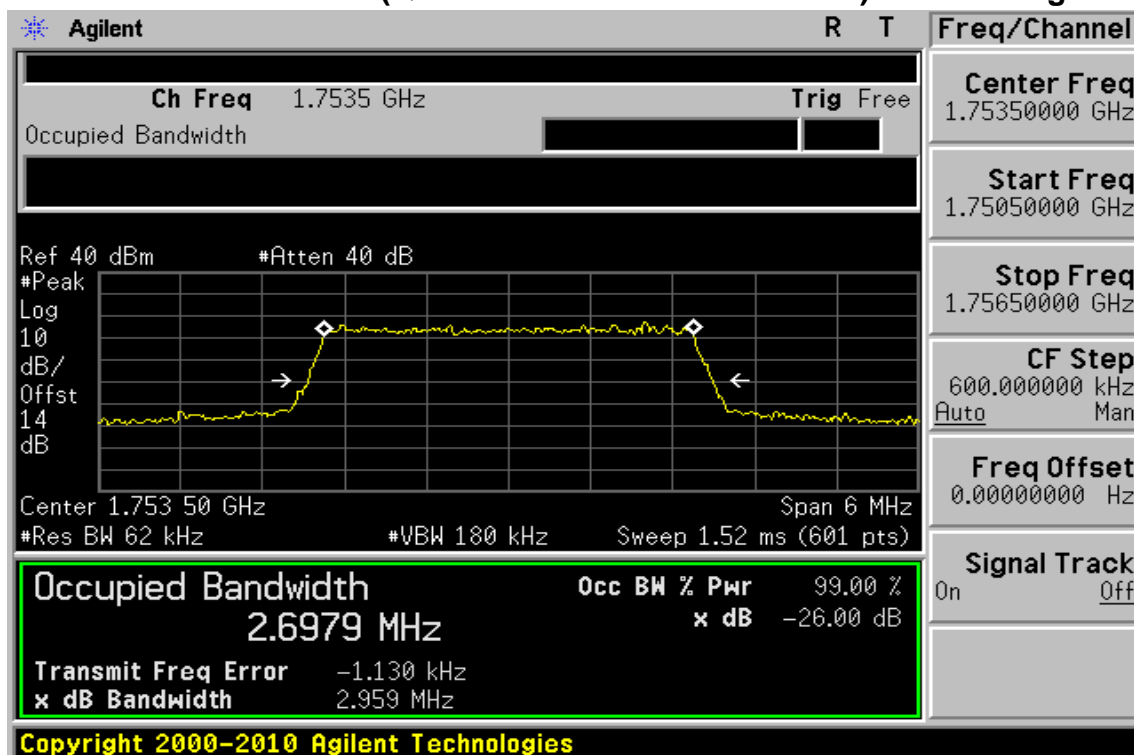
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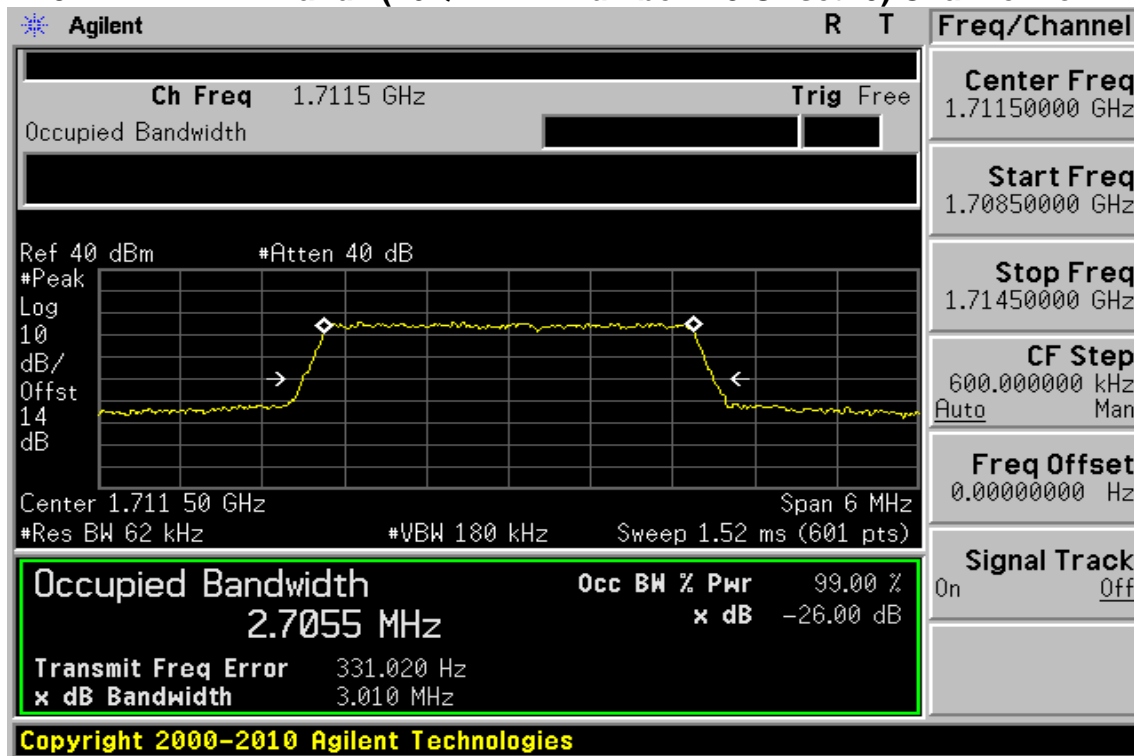
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High



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



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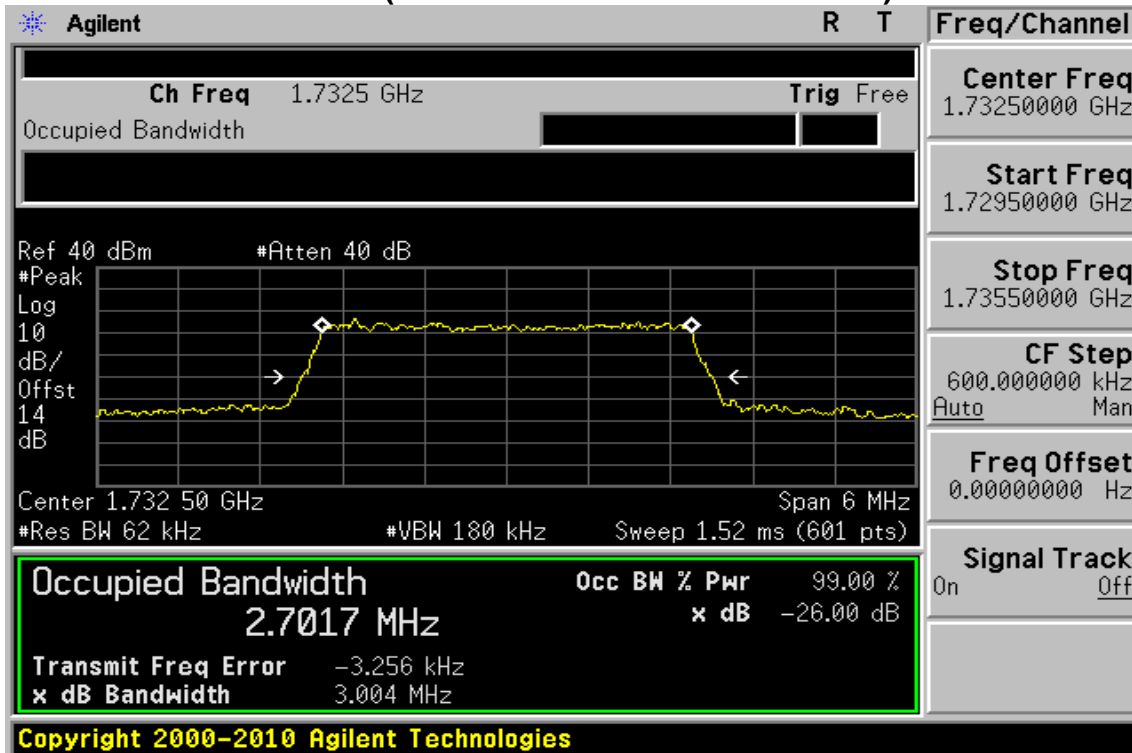
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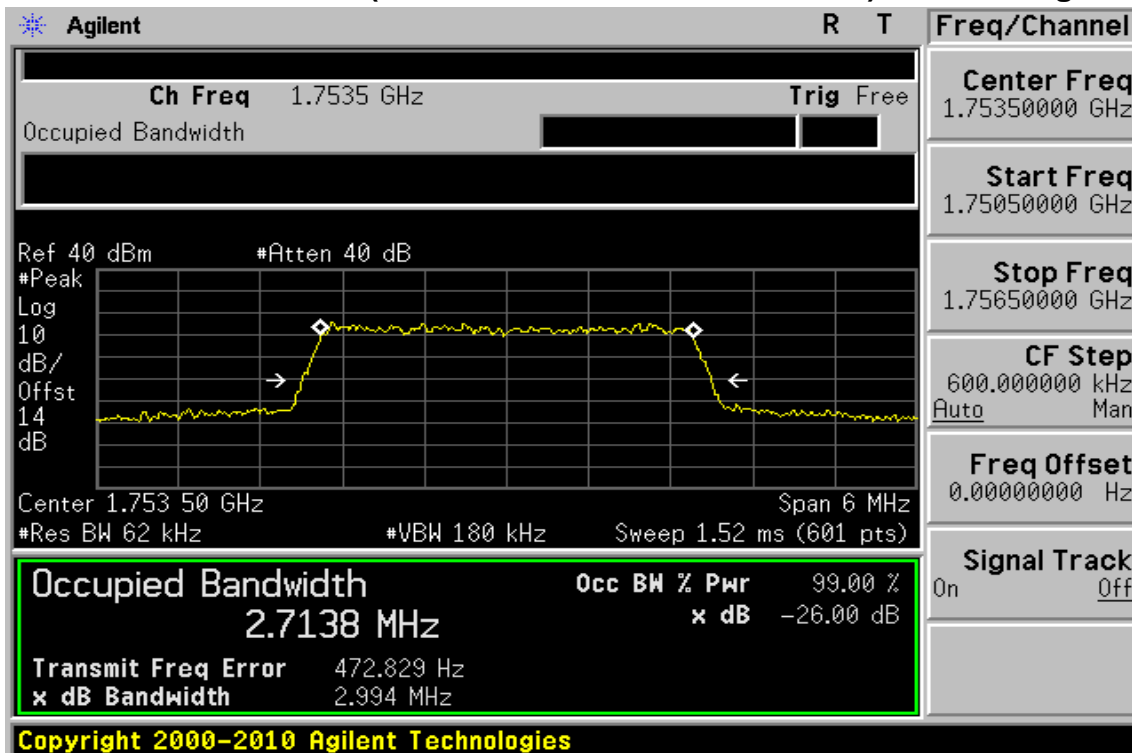
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3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid



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



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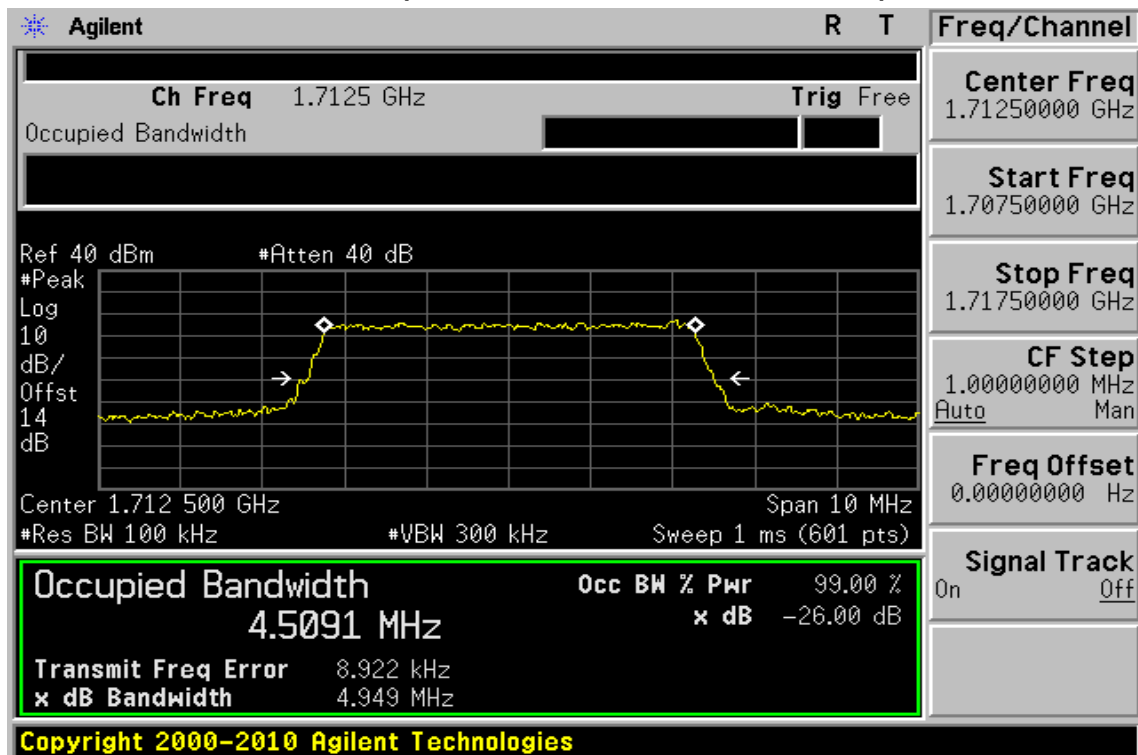
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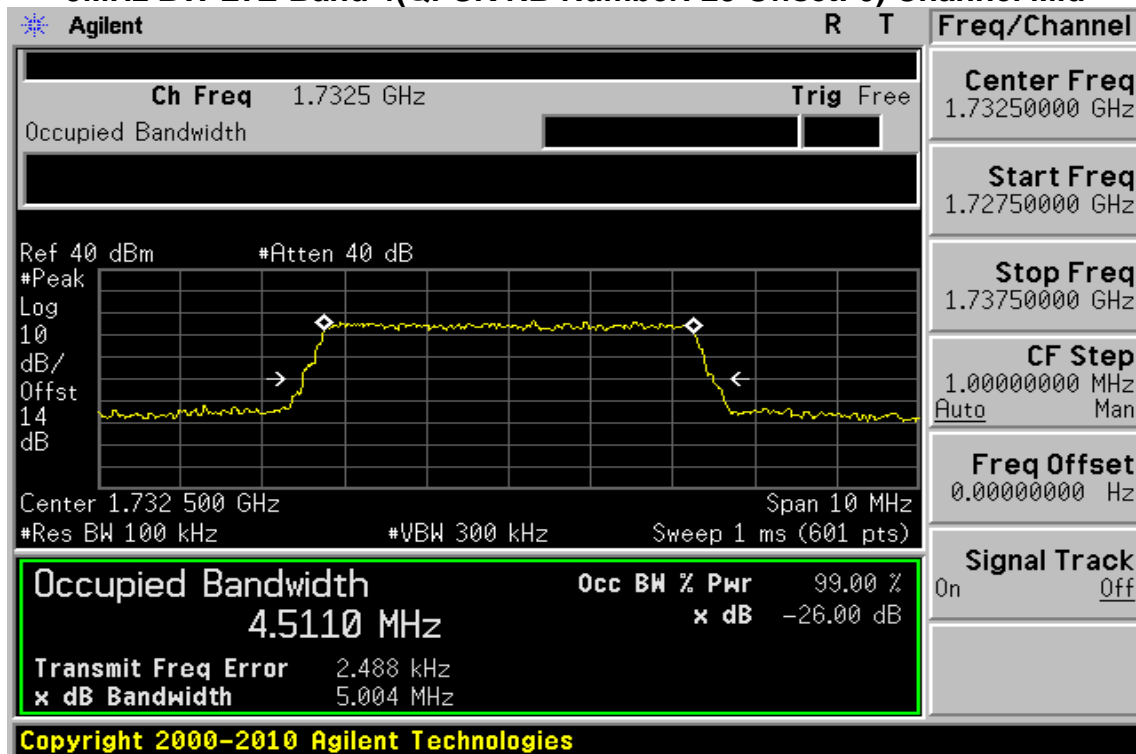
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low



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



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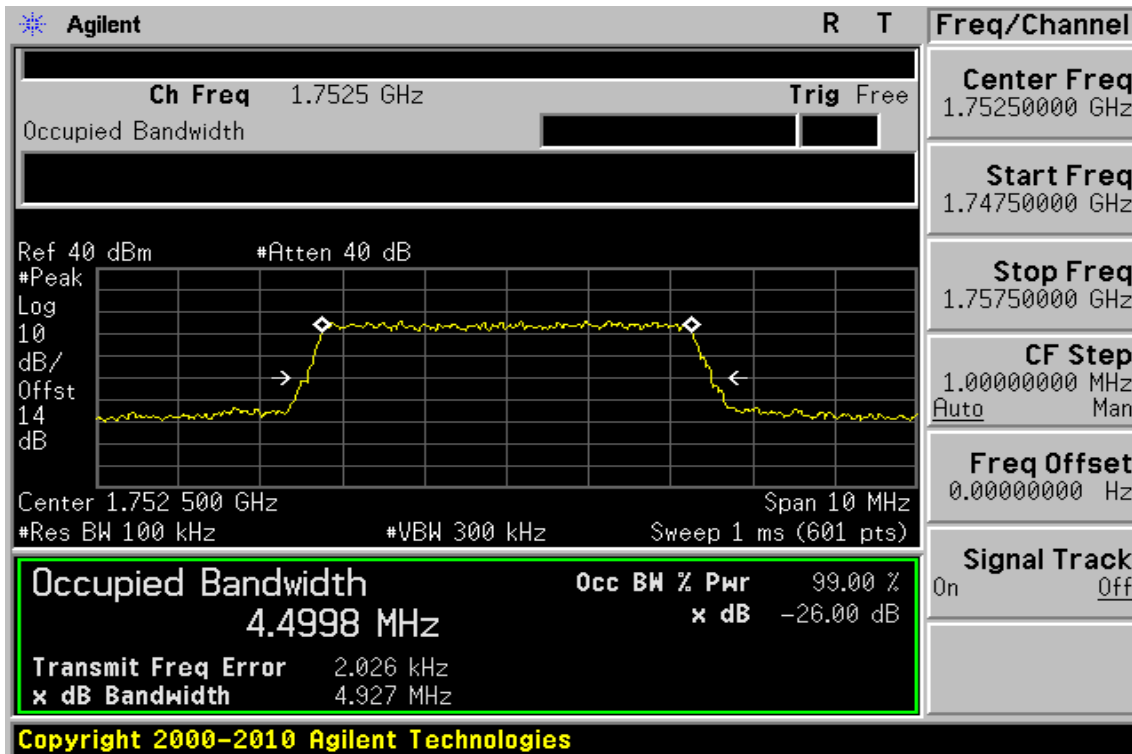
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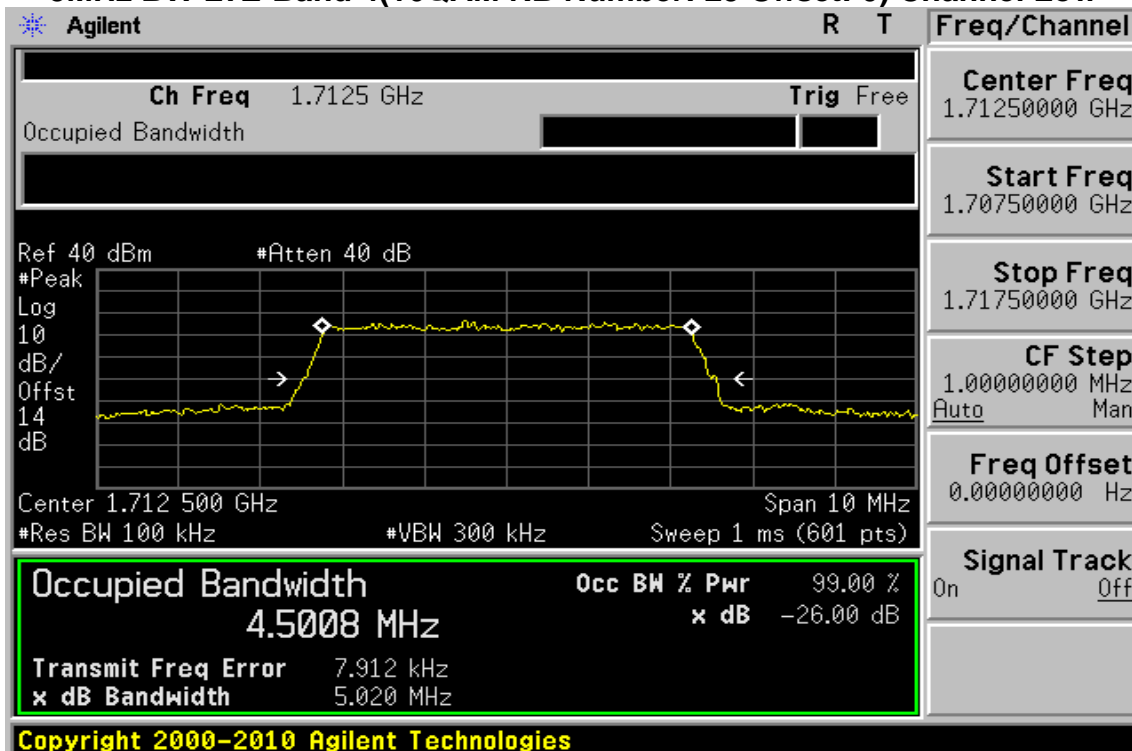
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High



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



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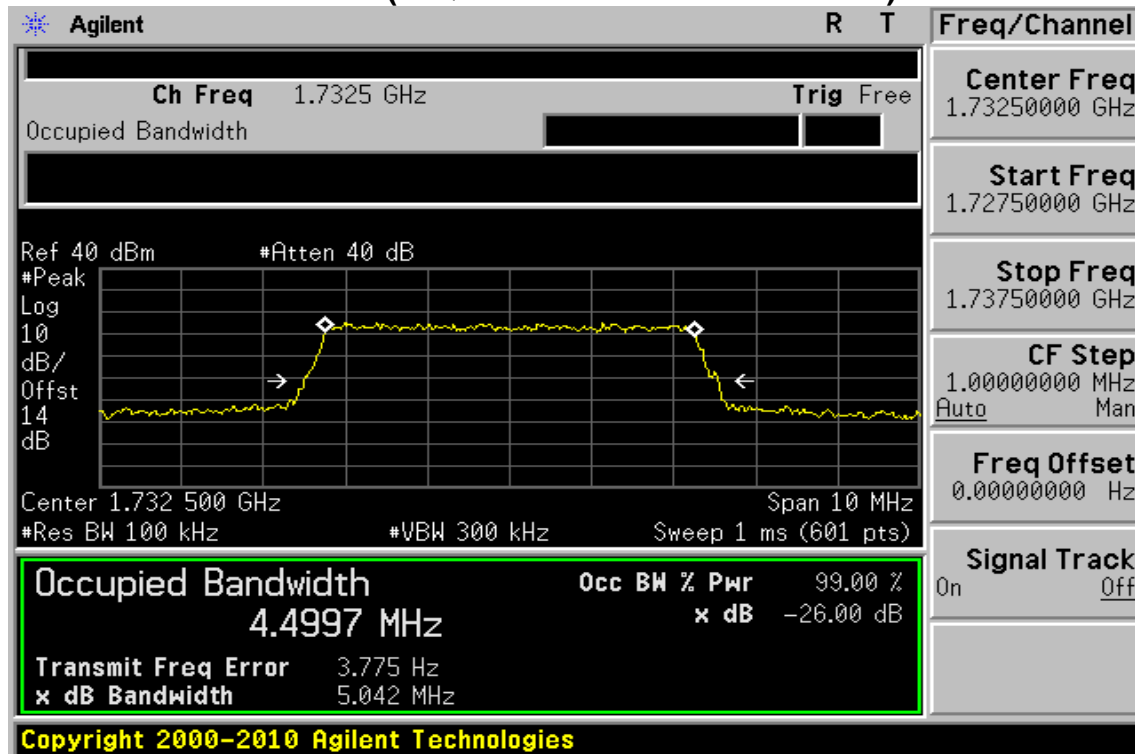
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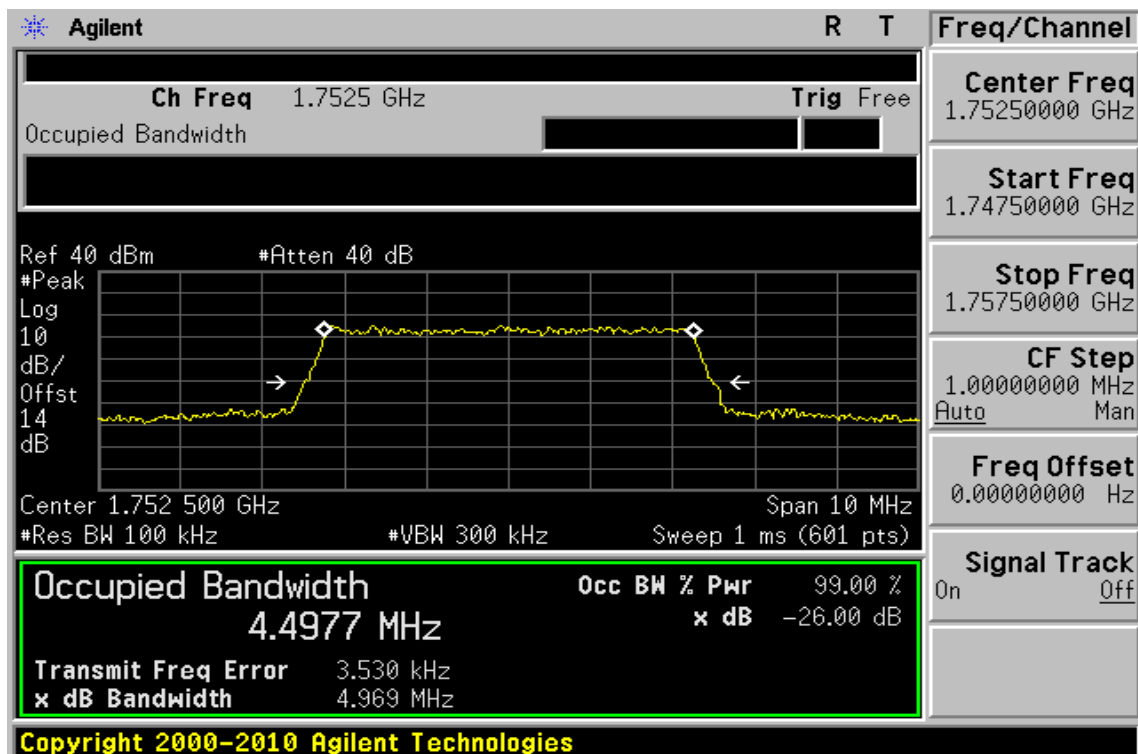
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5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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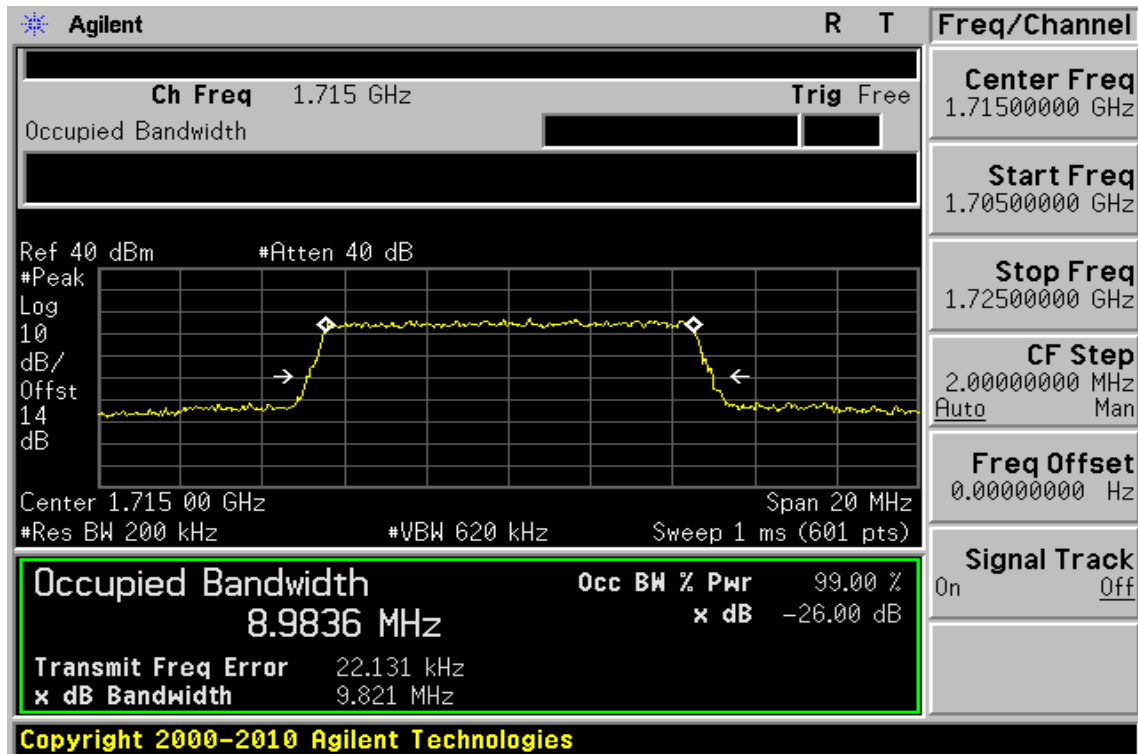
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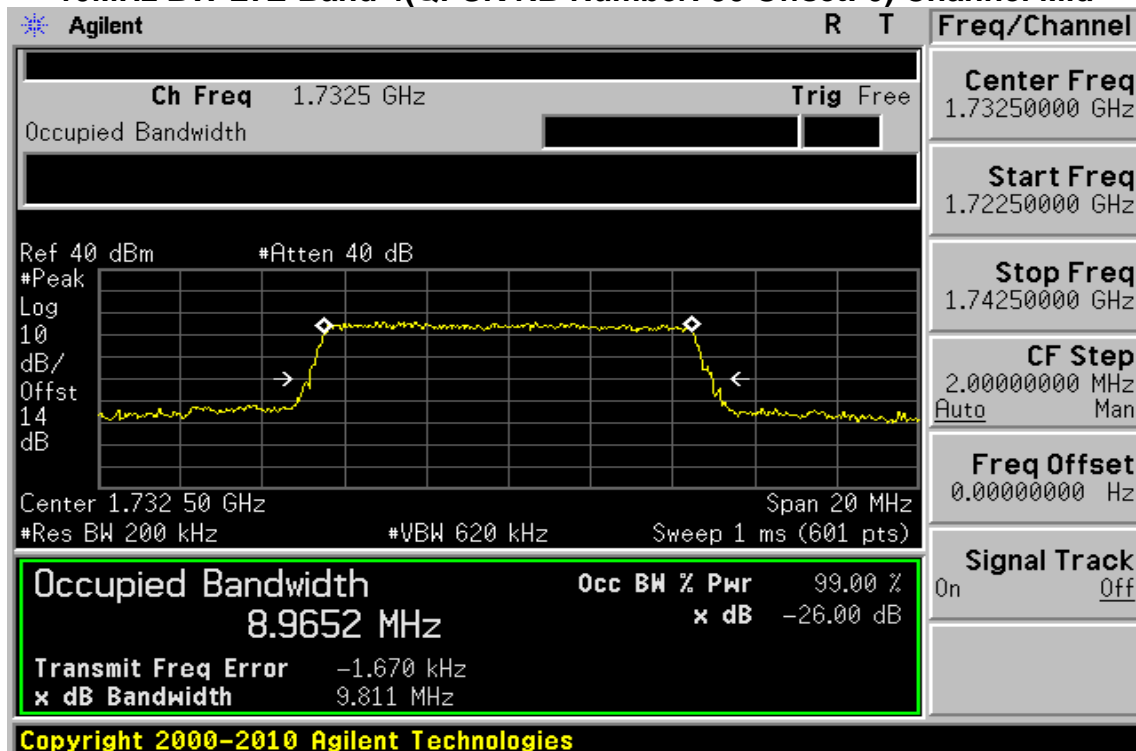
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low



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



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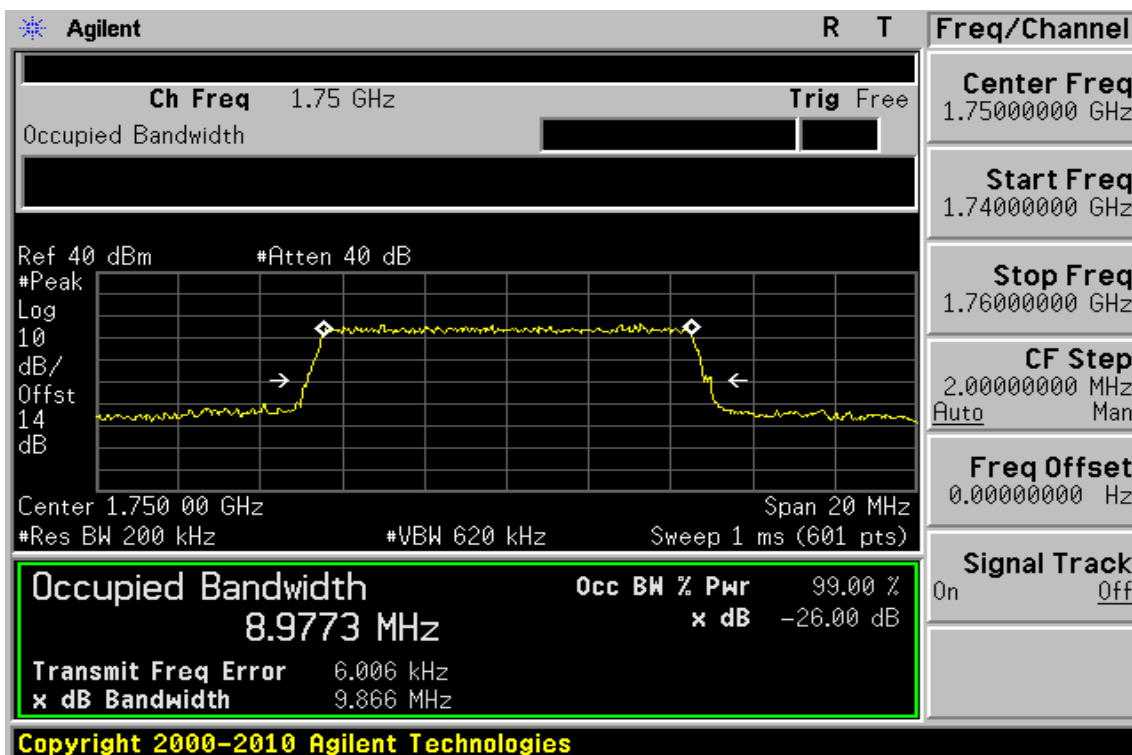
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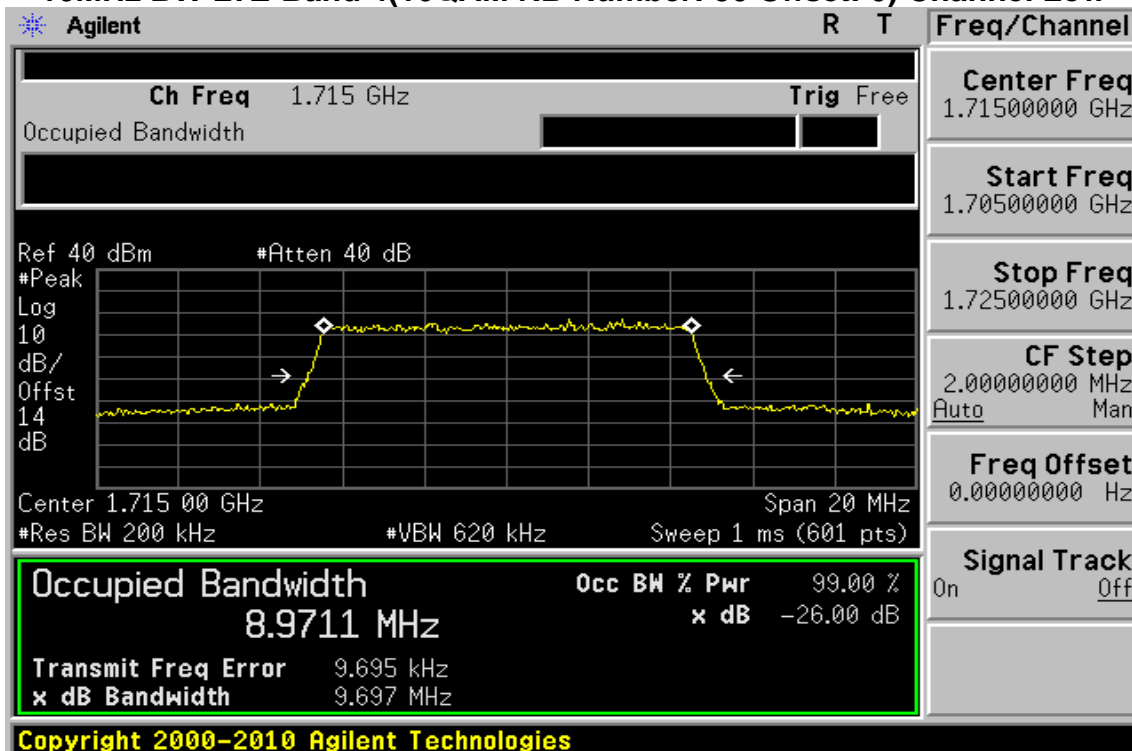
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High



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



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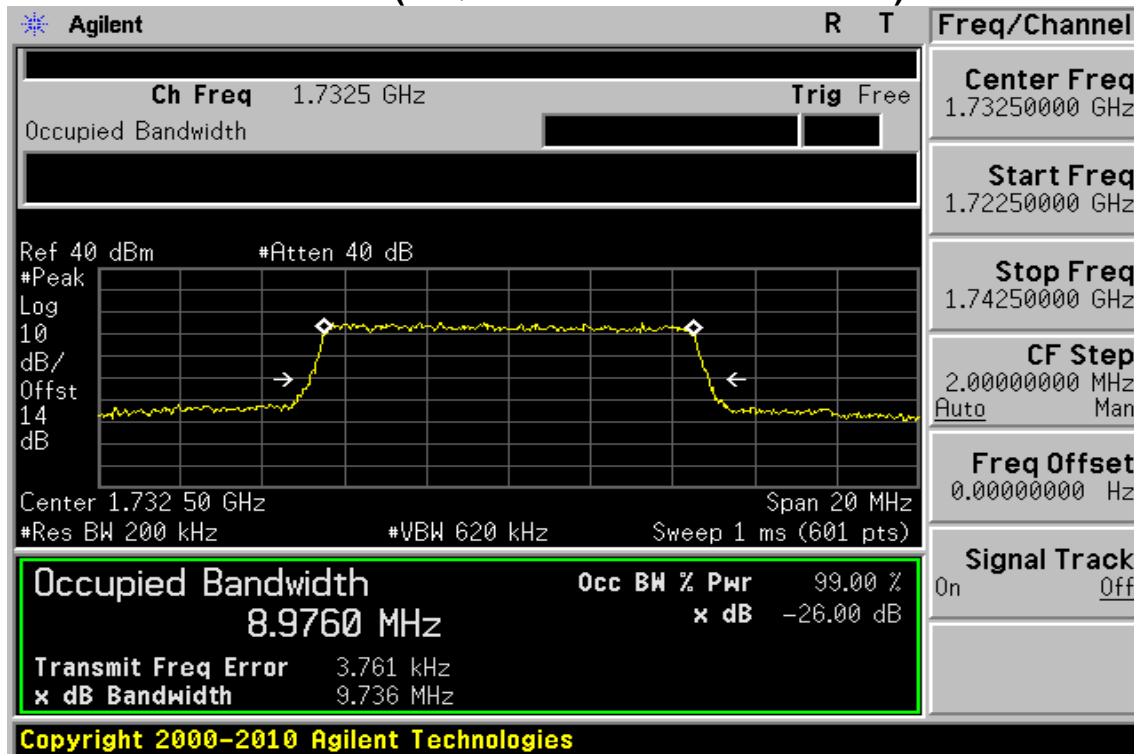
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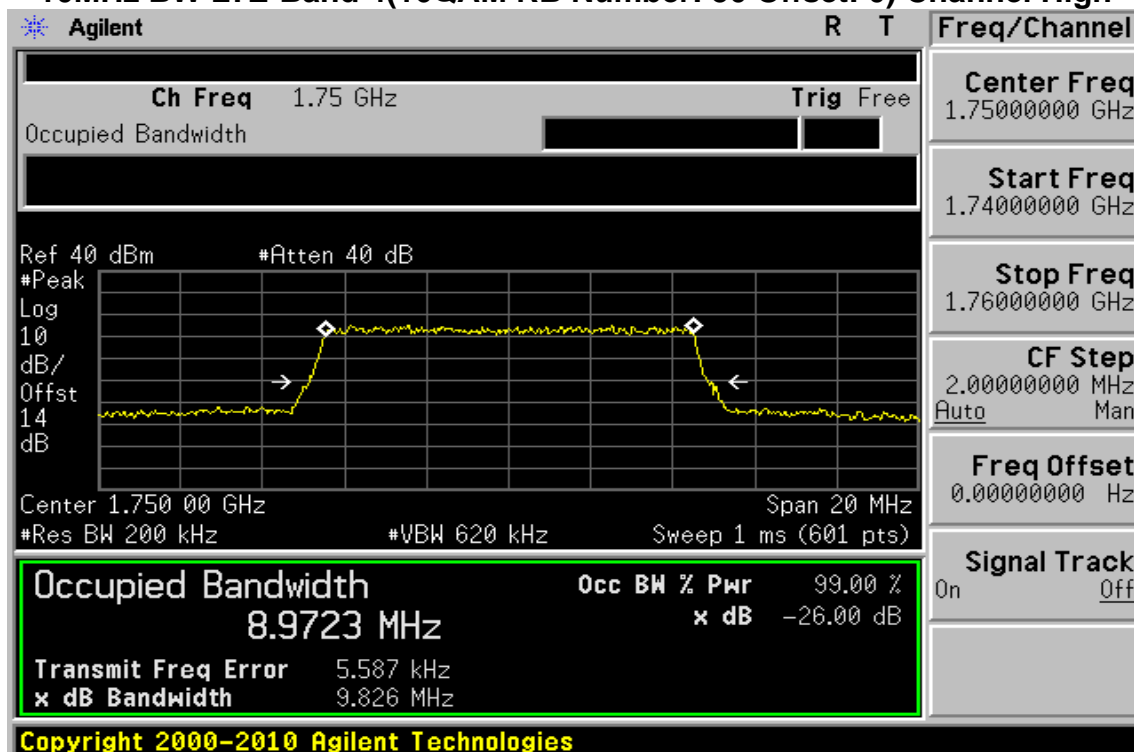
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10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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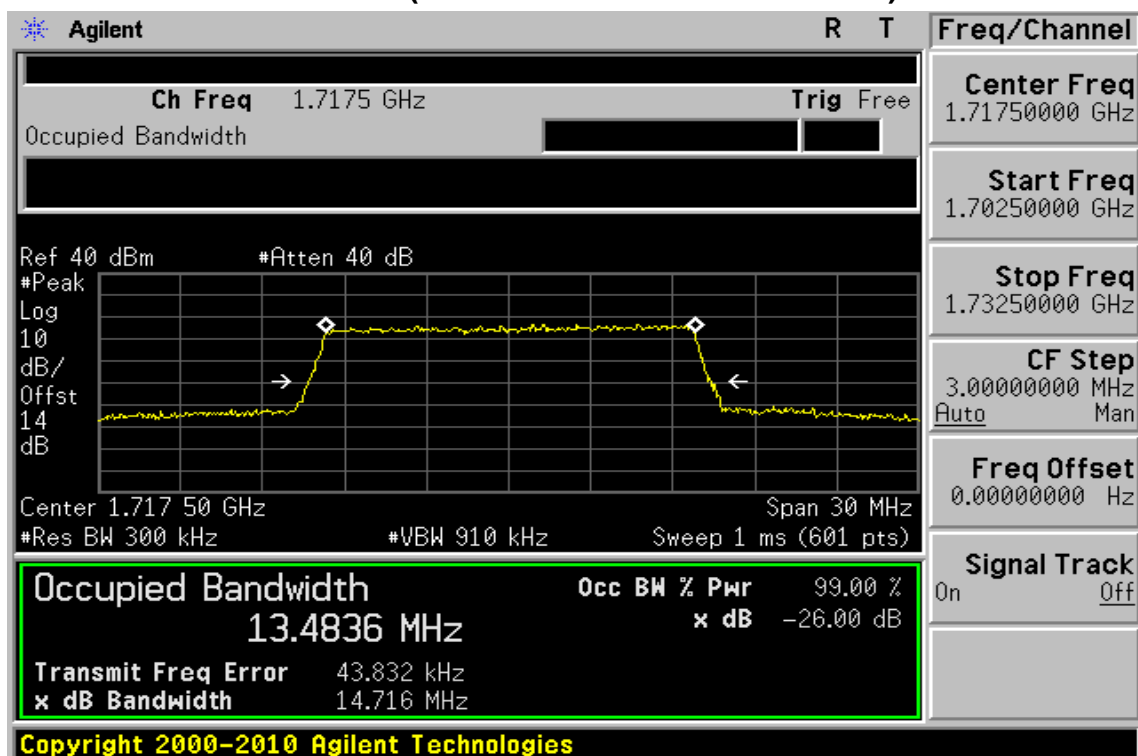
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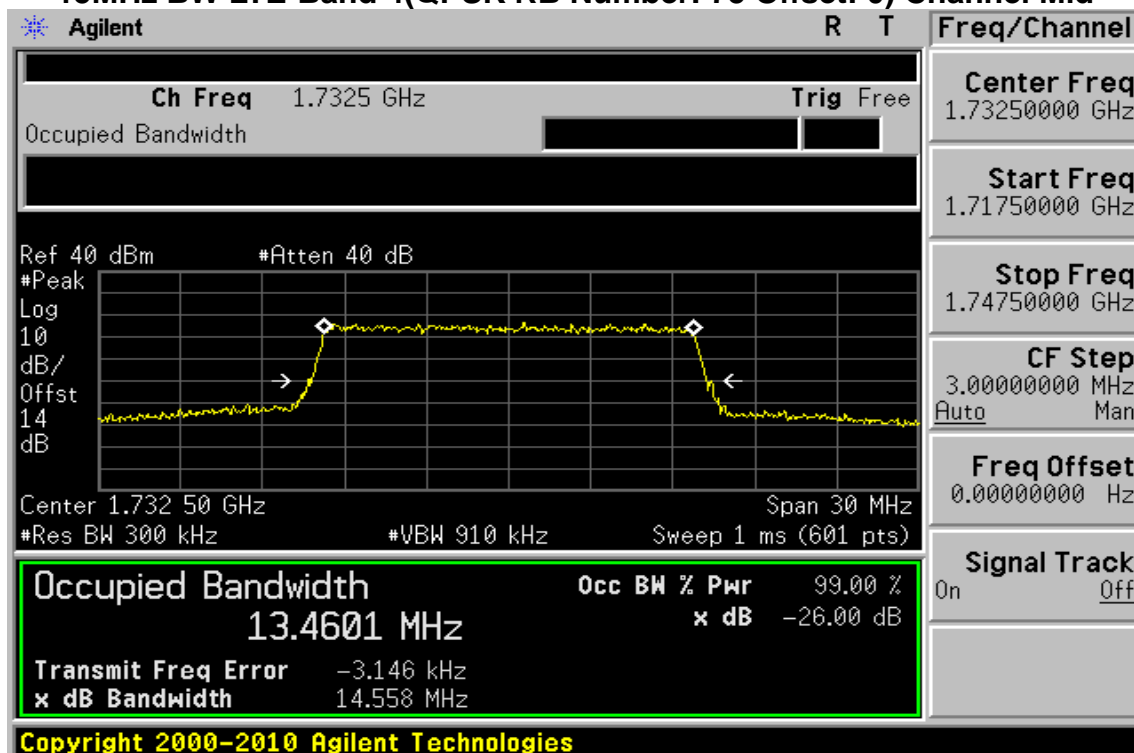
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Low



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



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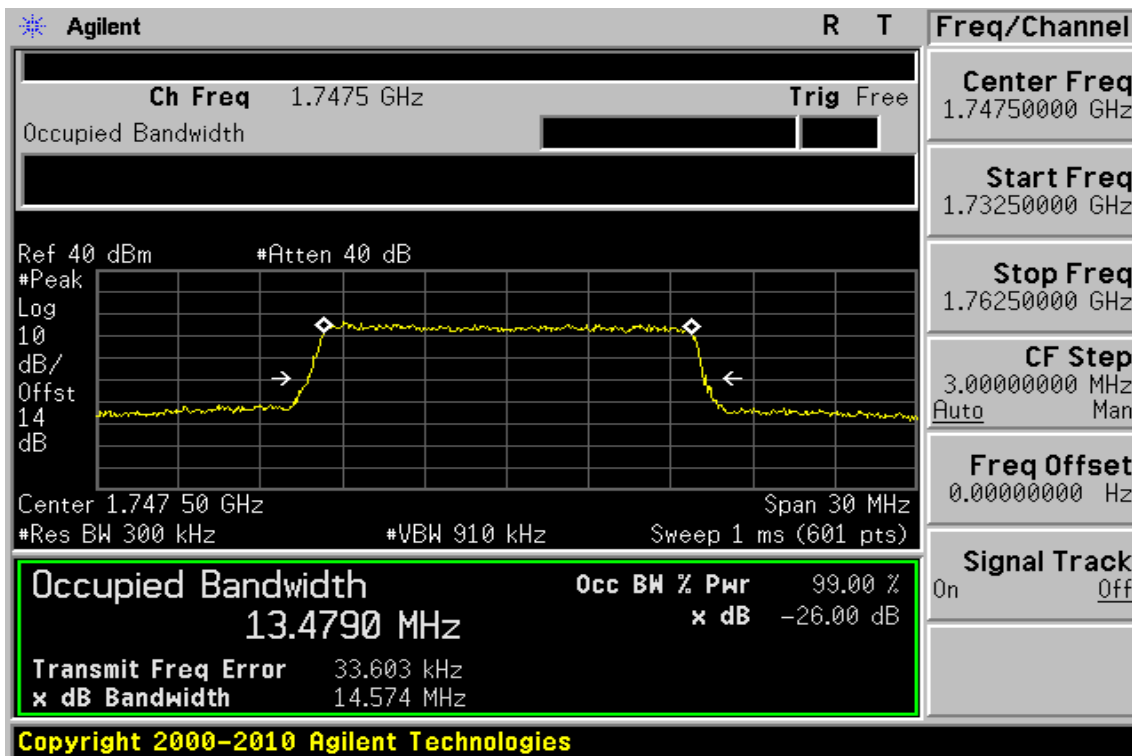
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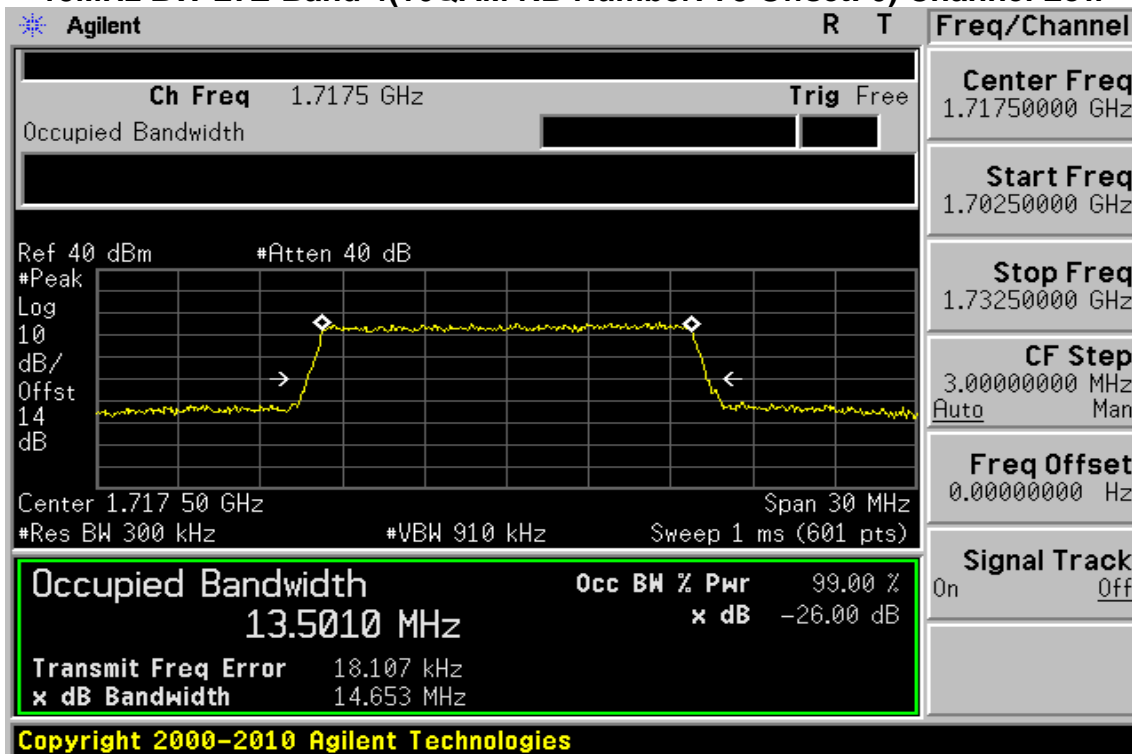
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel High



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



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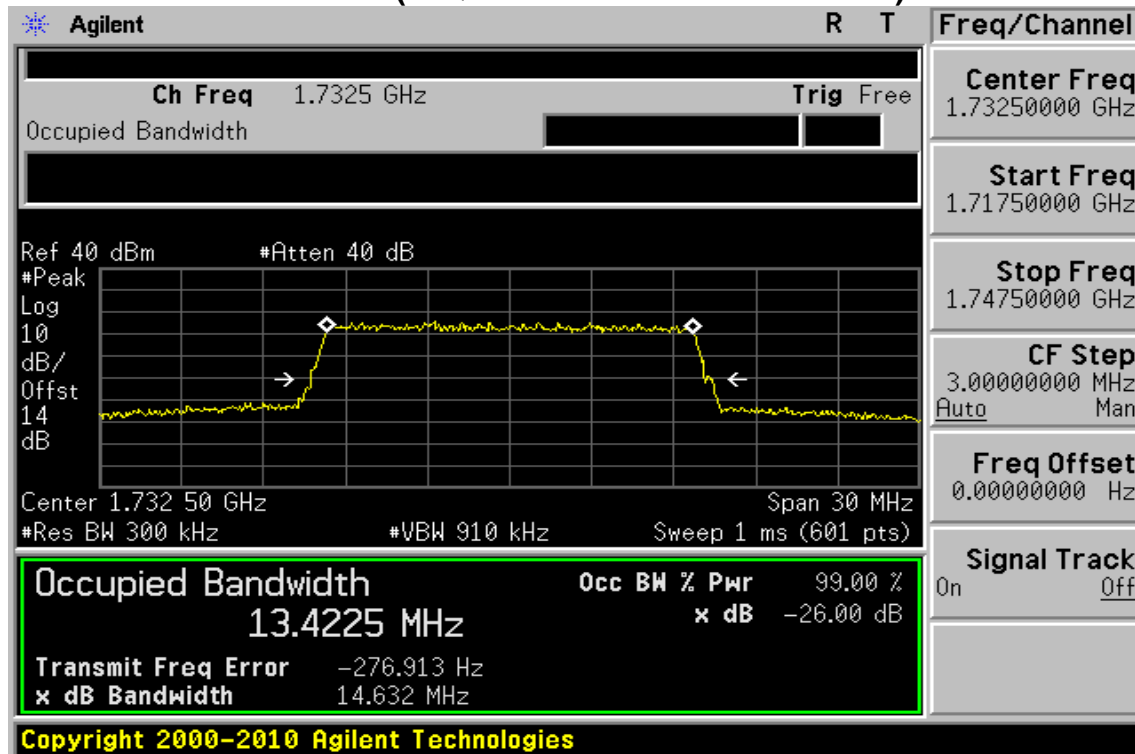
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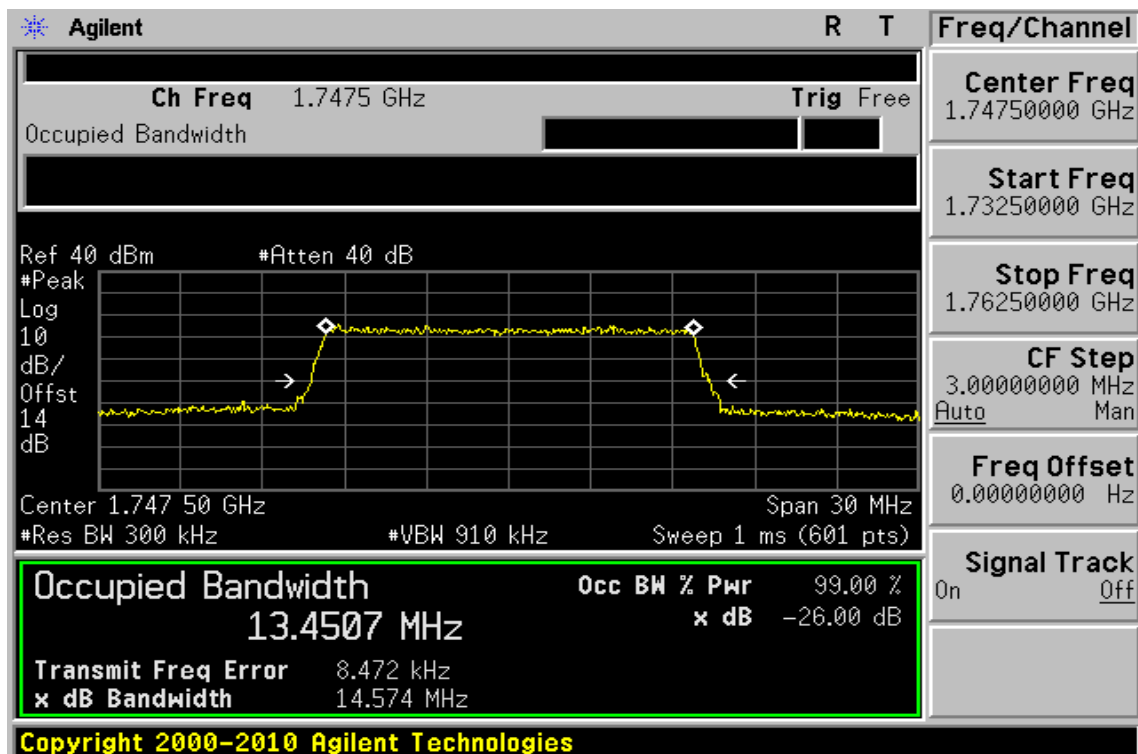
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15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Mid



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



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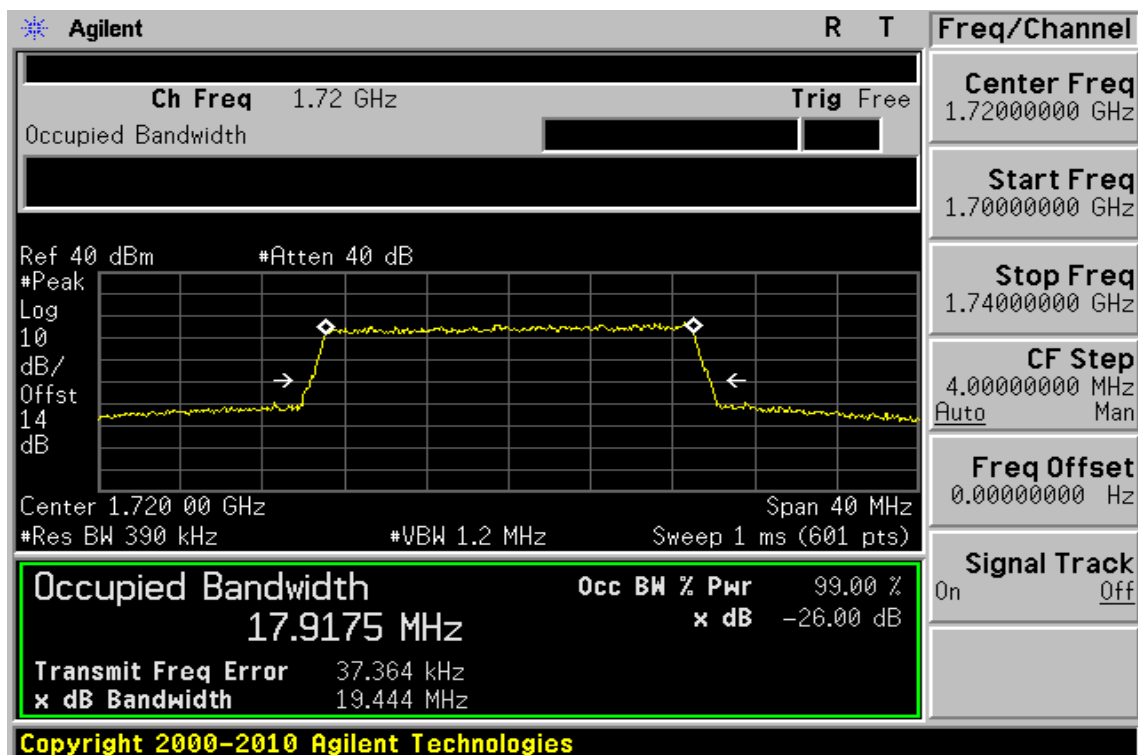
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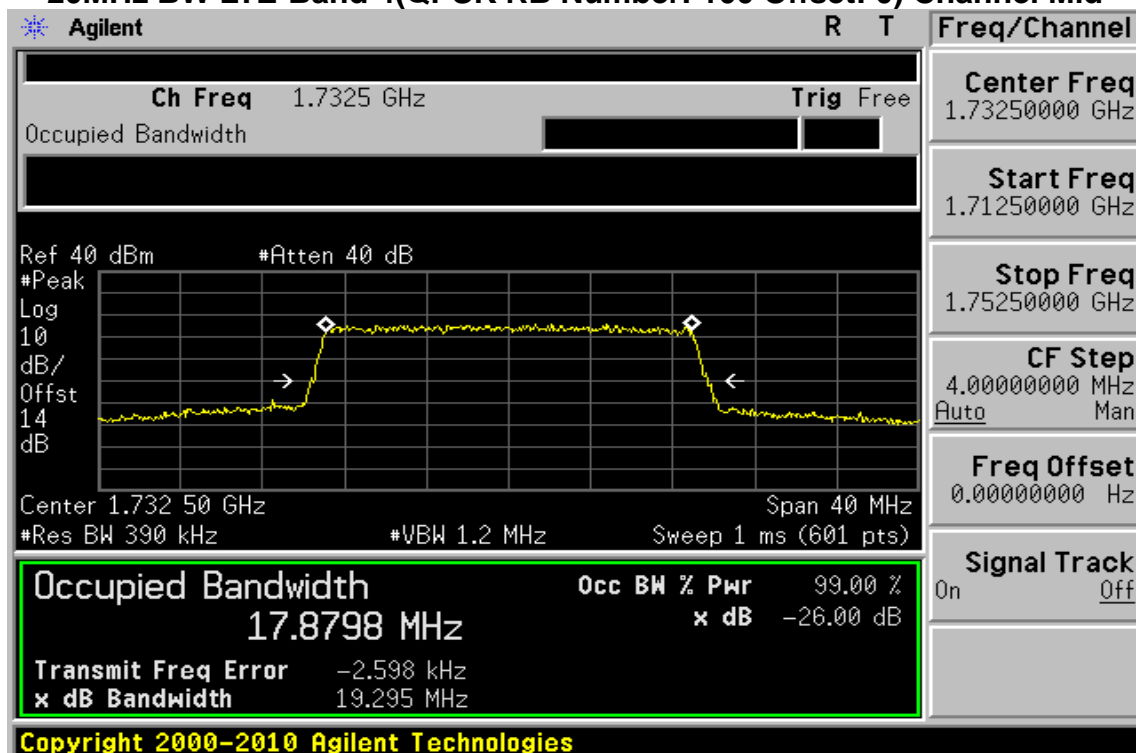
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Low



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



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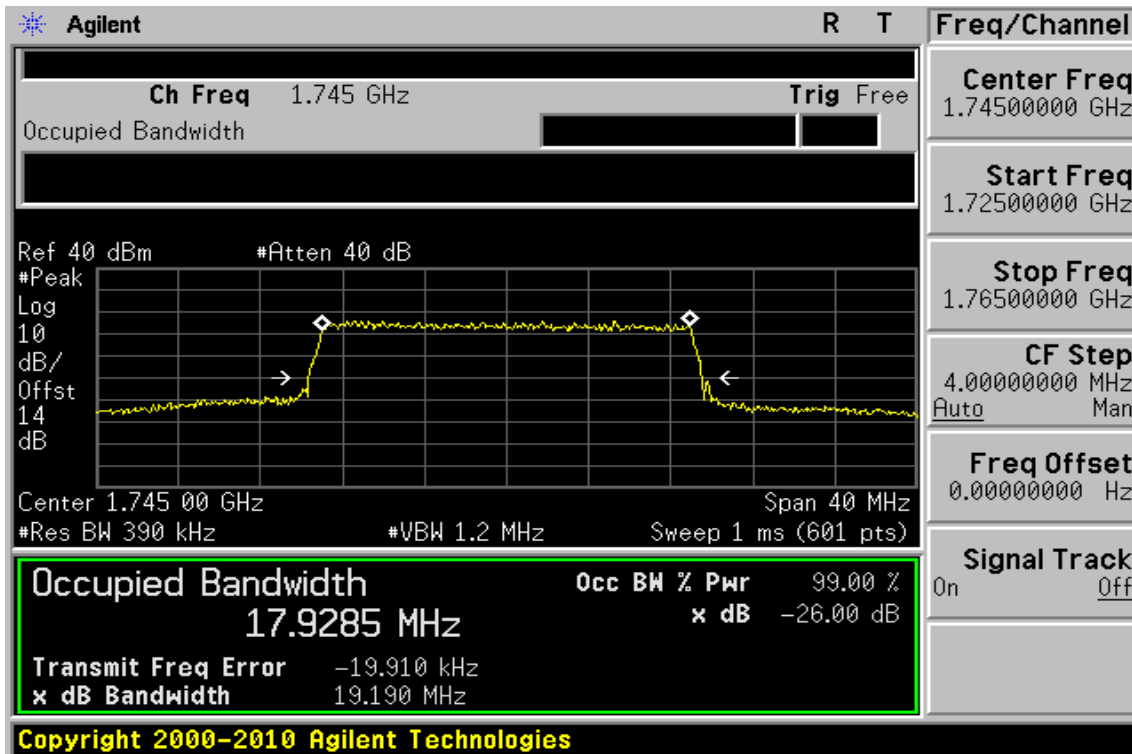
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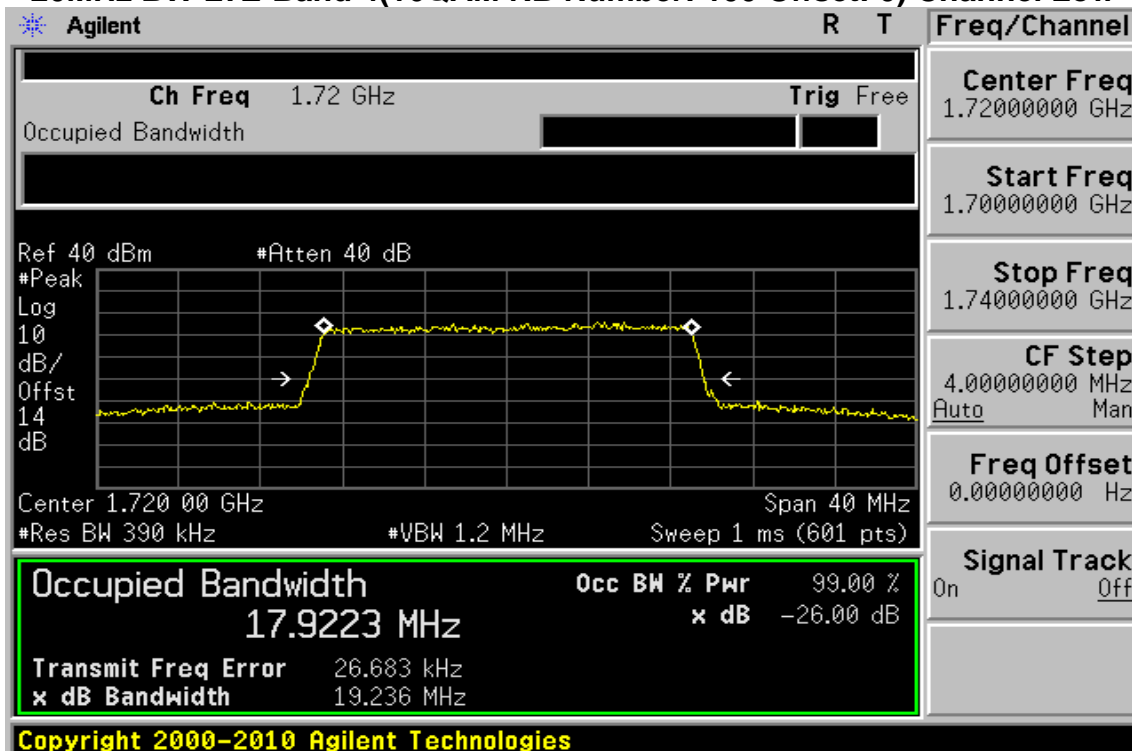
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel High



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



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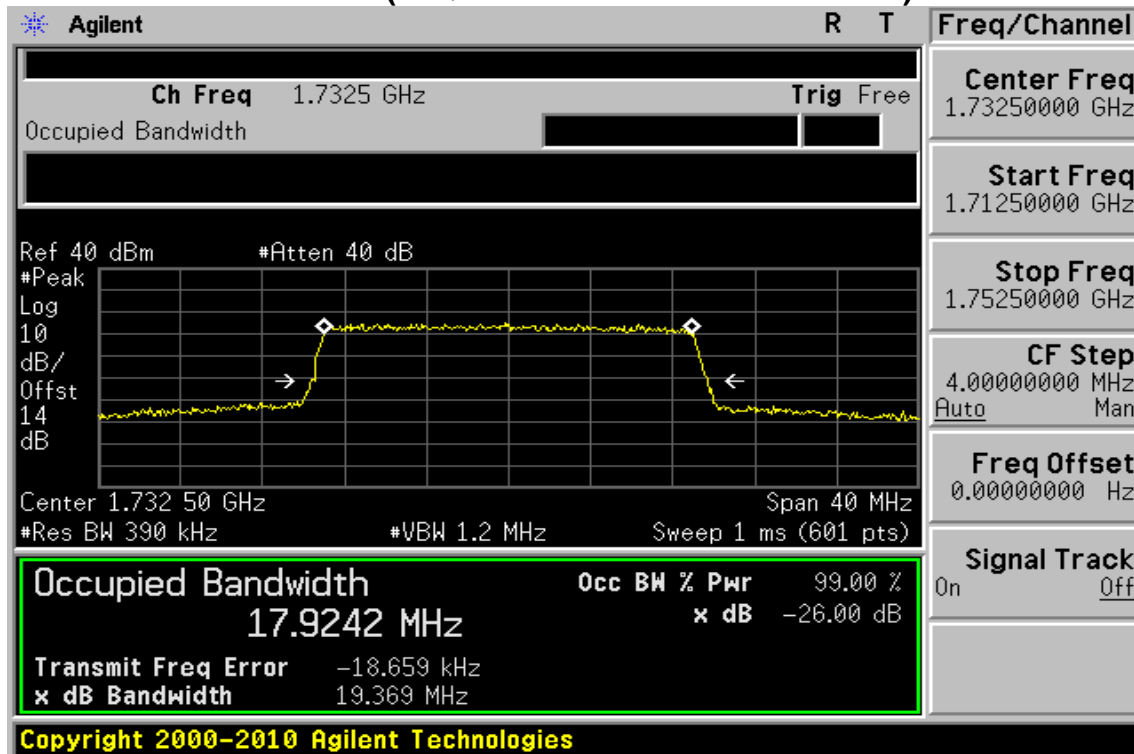
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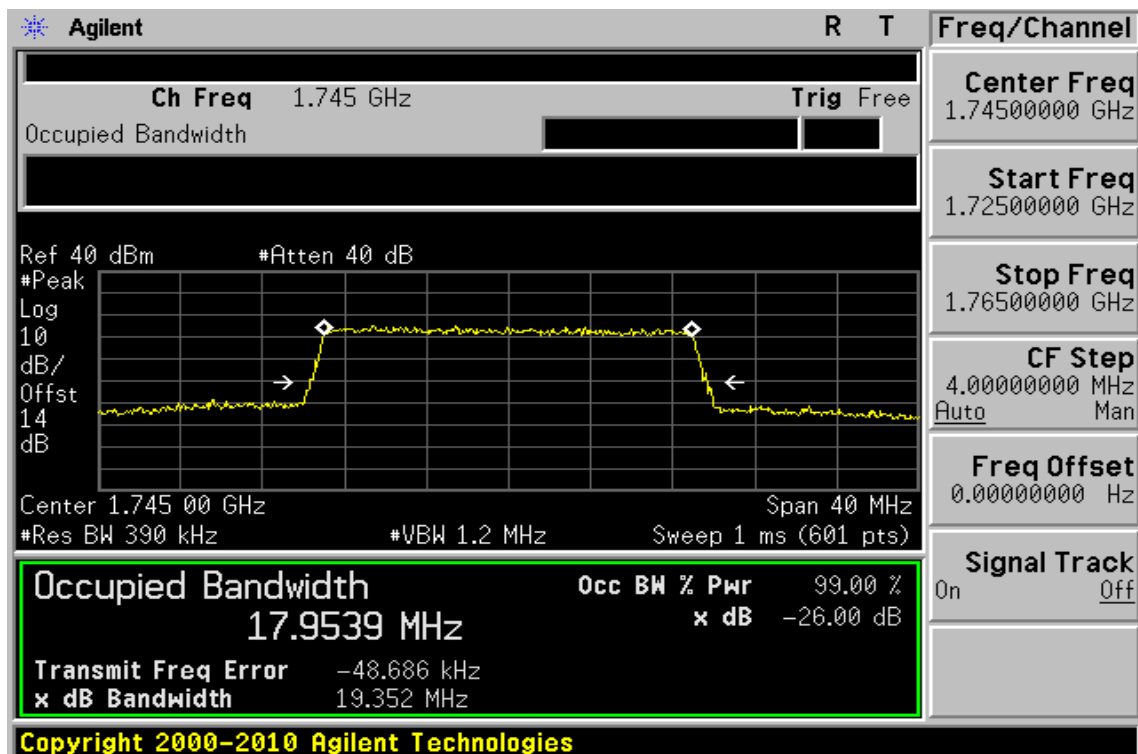
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20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Mid



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



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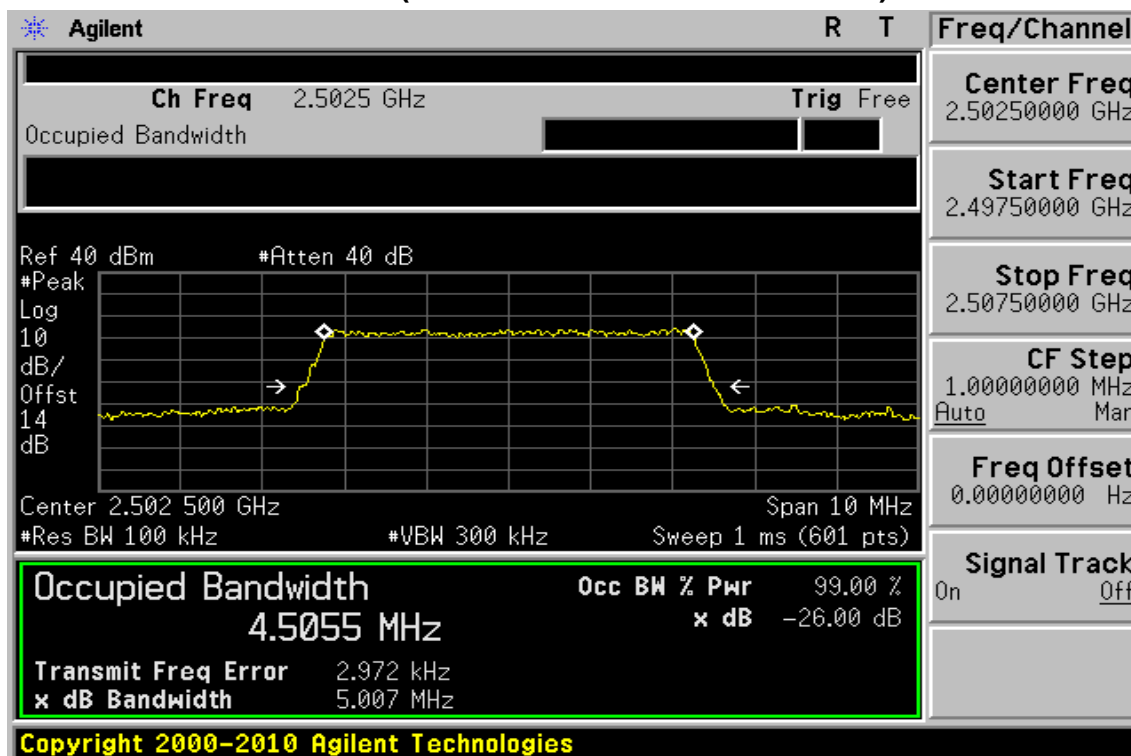
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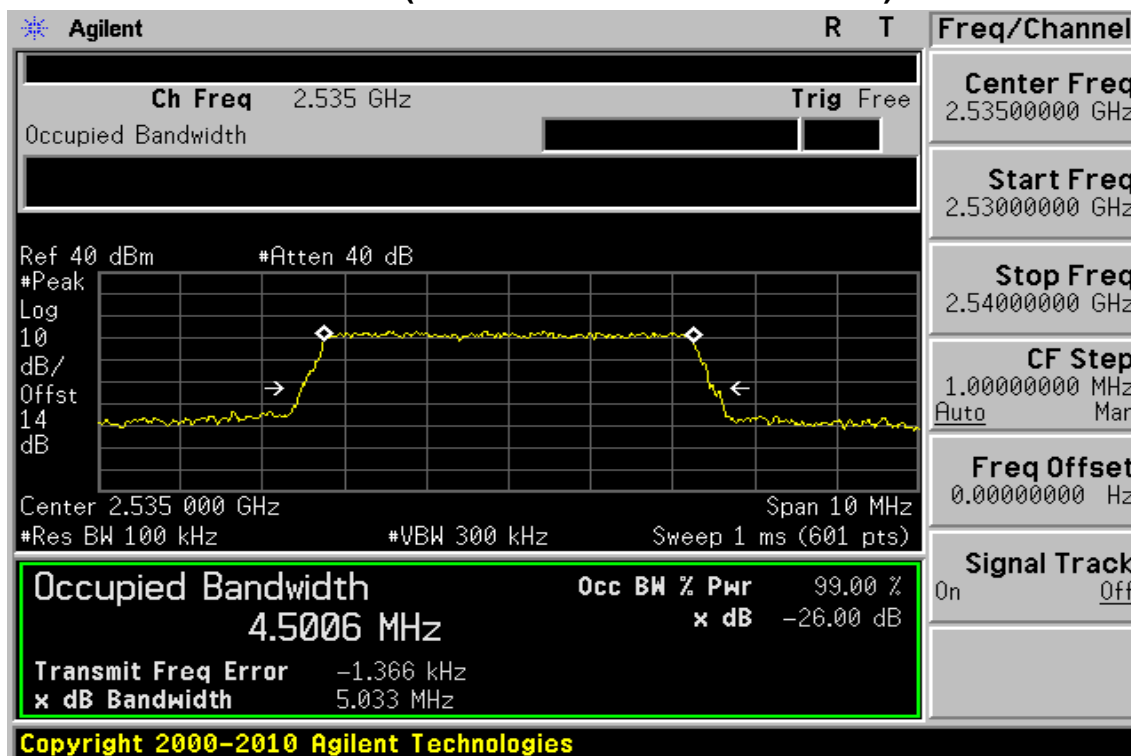
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low



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



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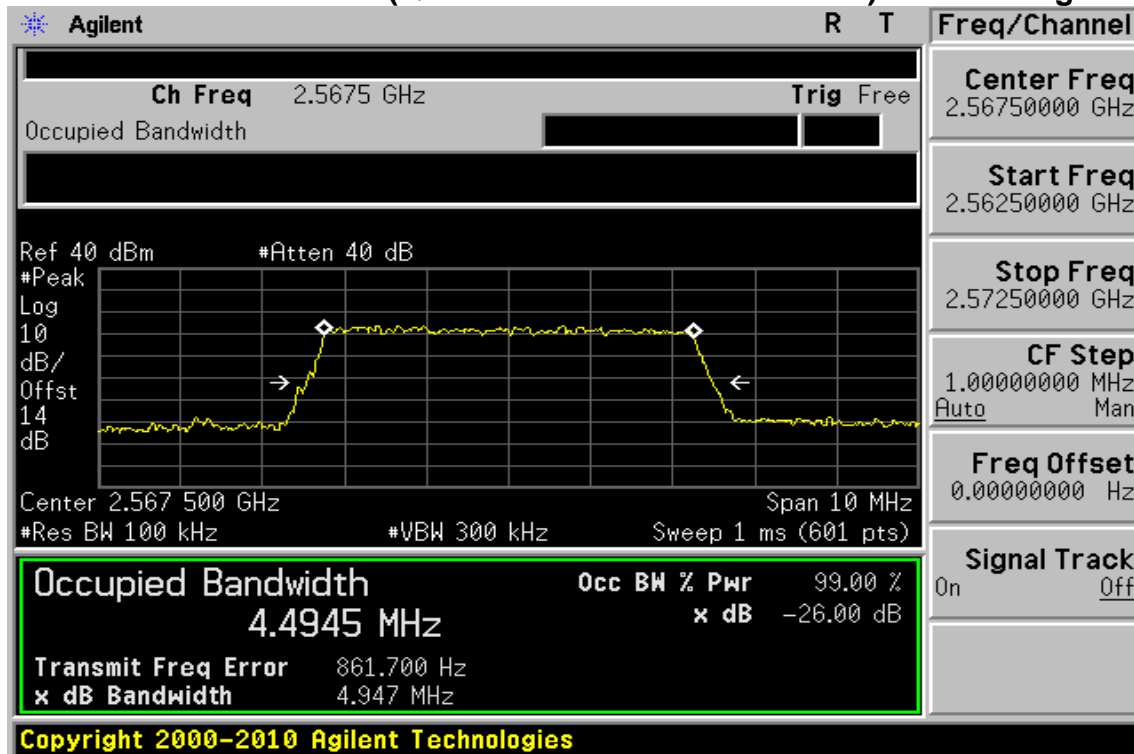
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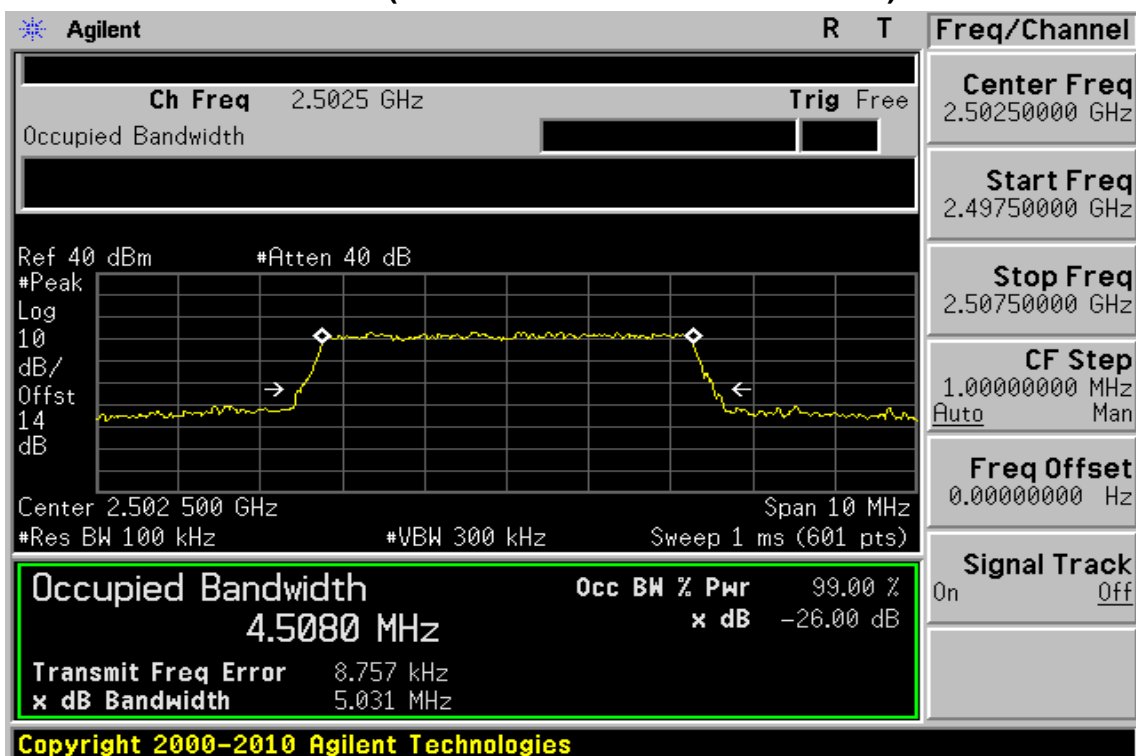
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High



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



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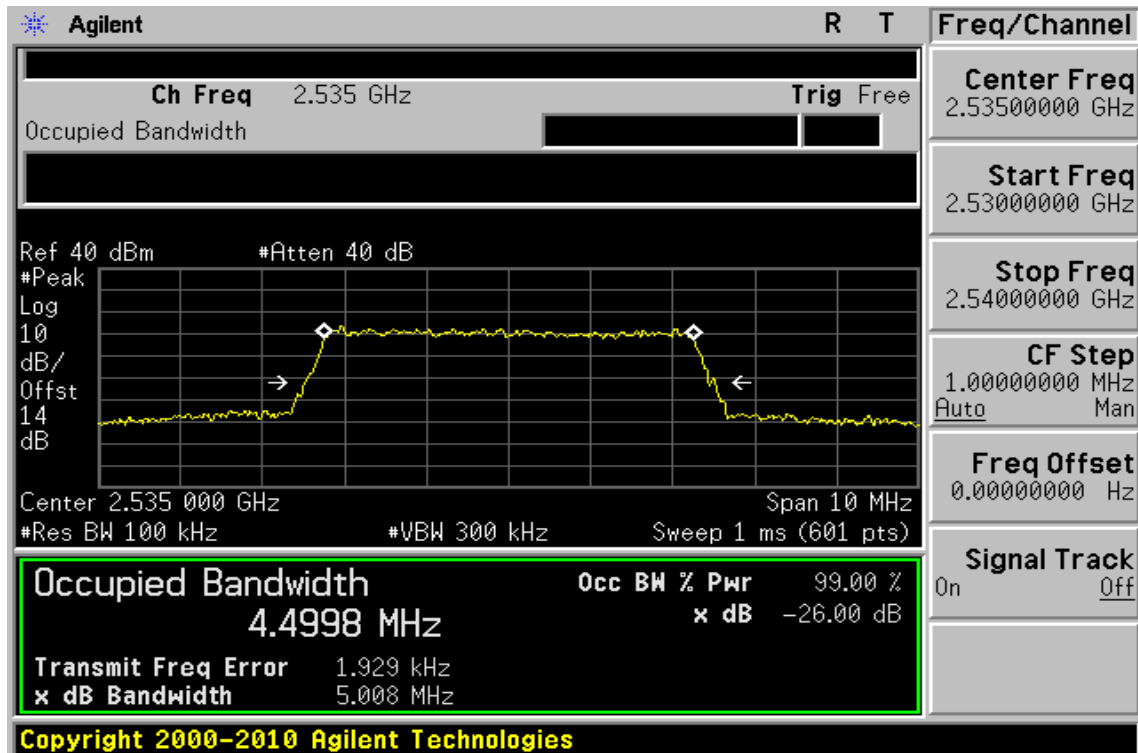
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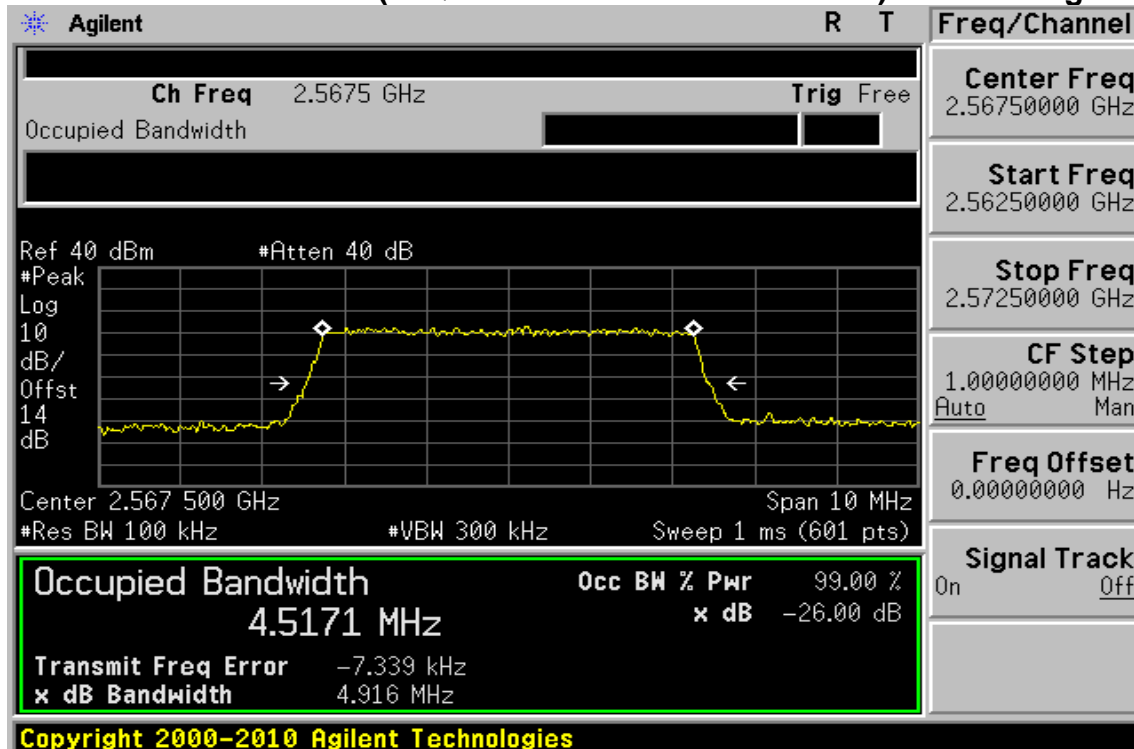
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5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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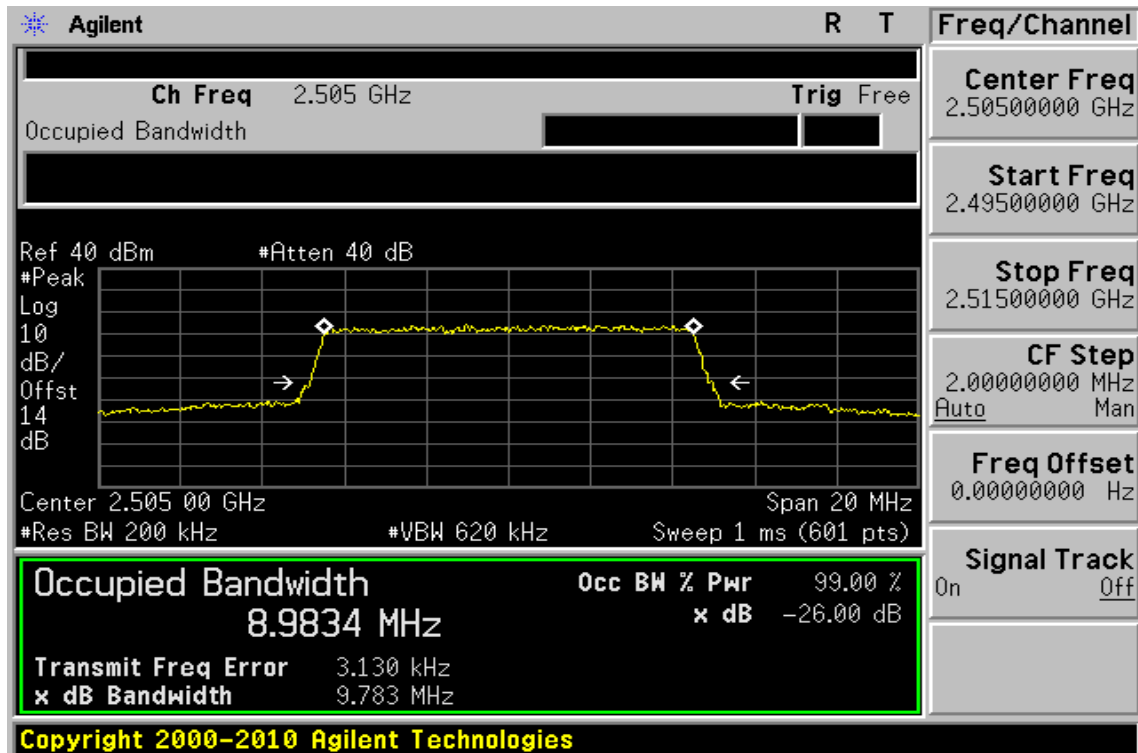
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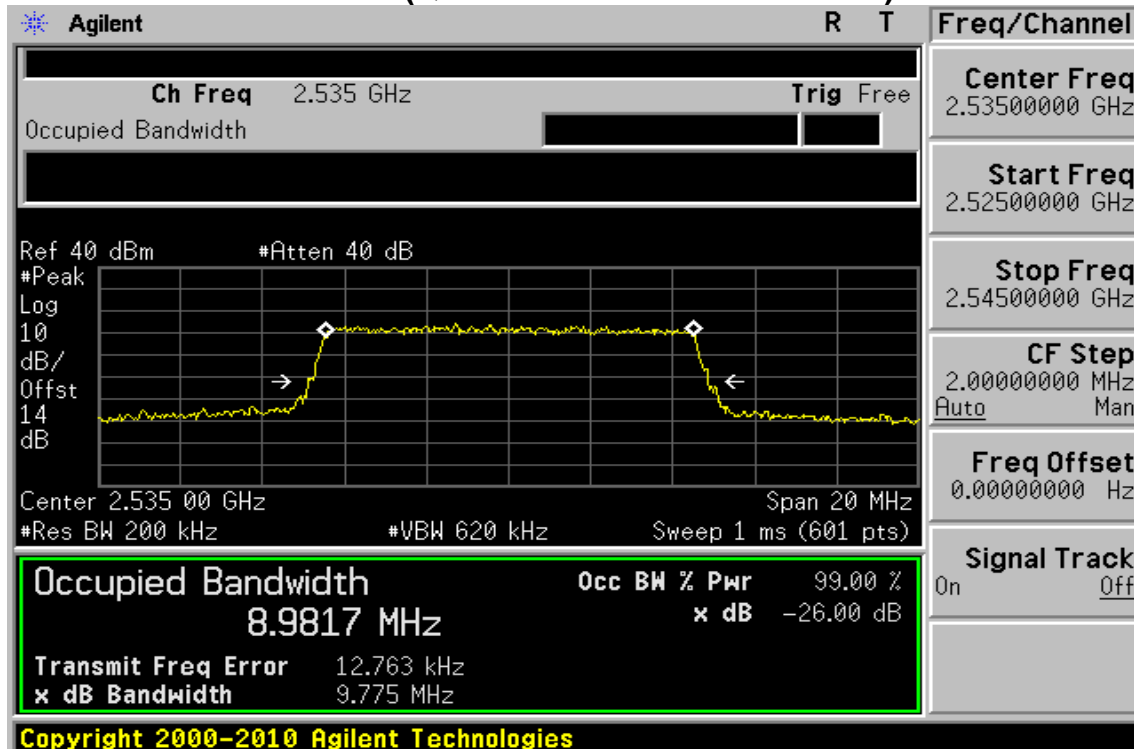
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10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low



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



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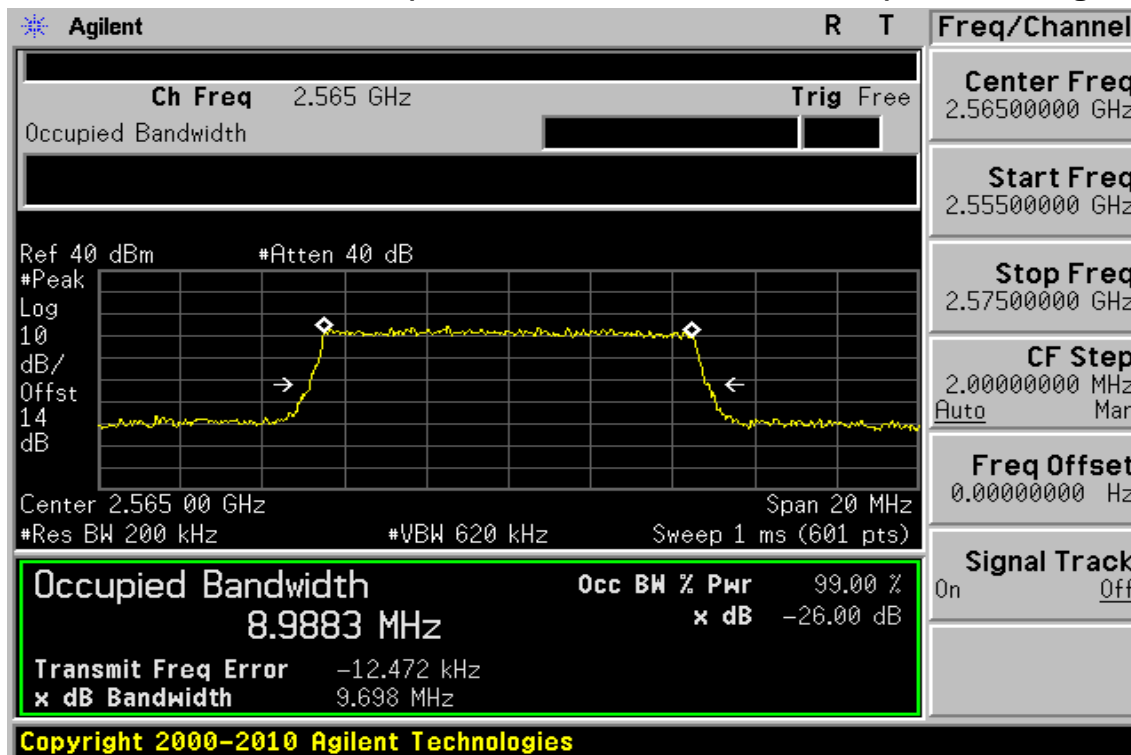
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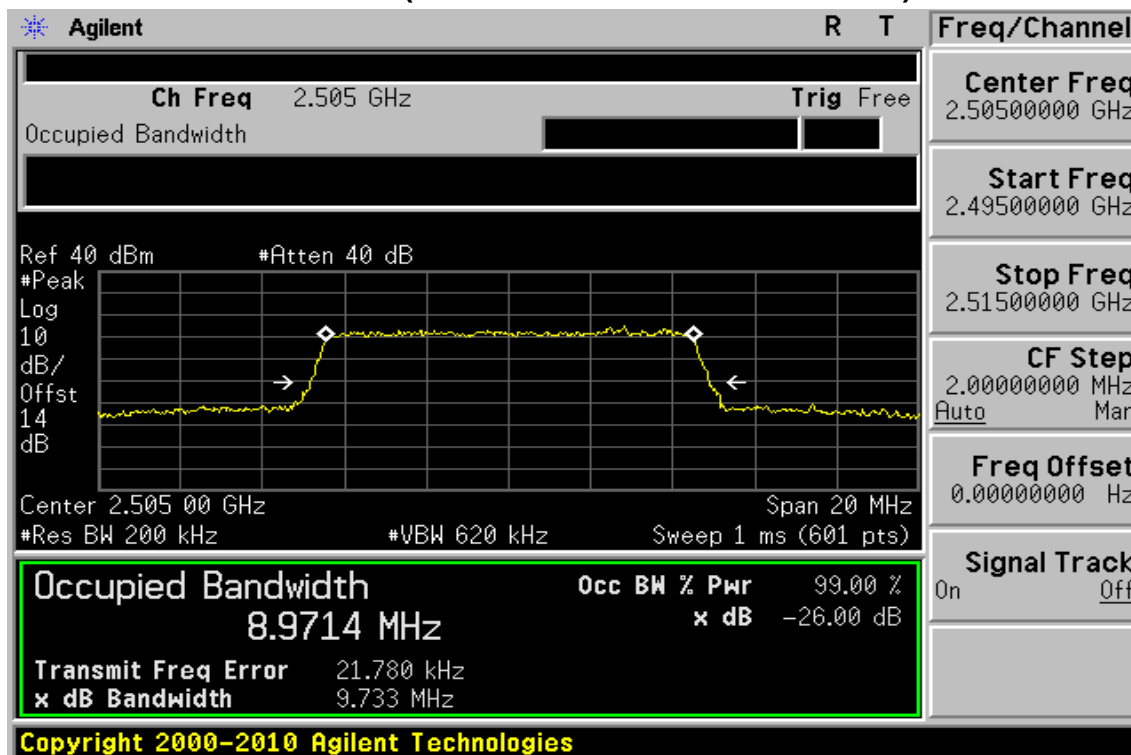
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10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High



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



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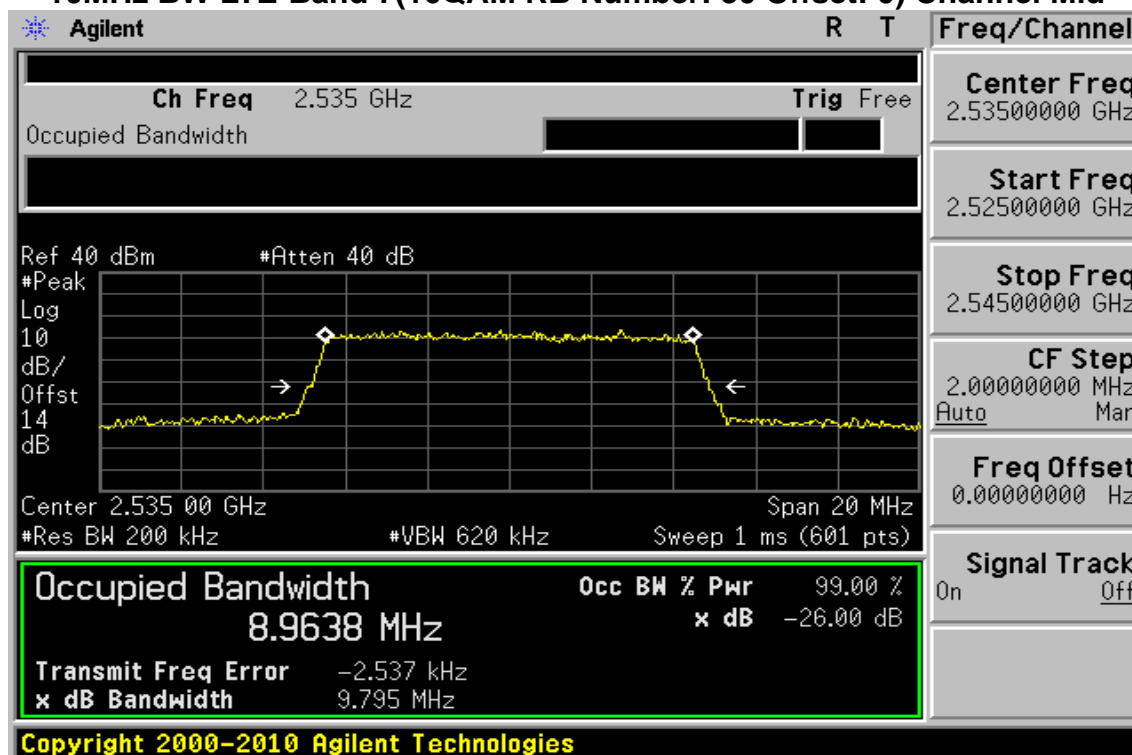
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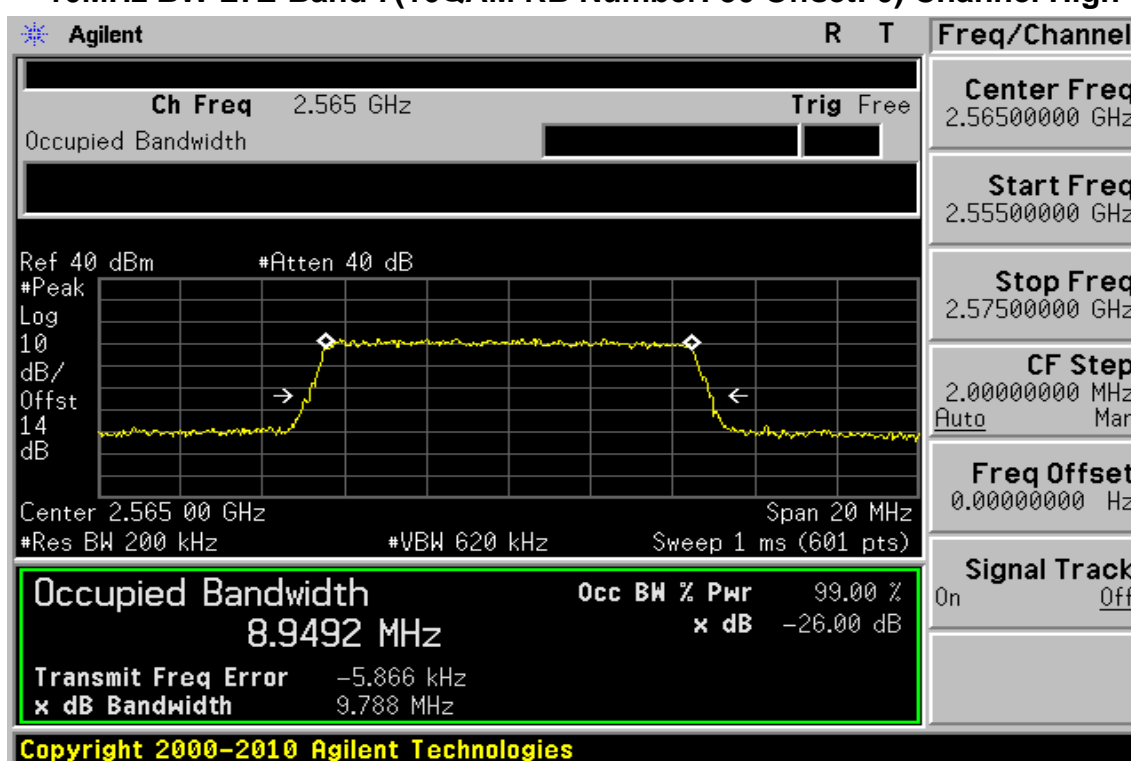
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10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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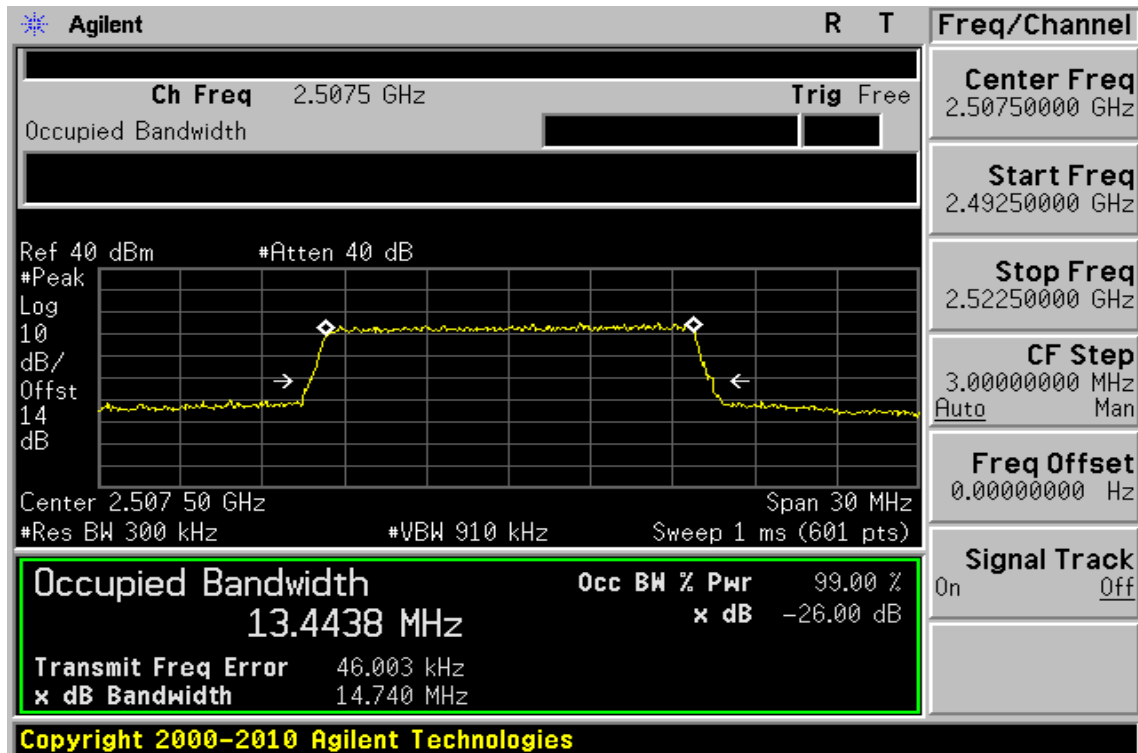
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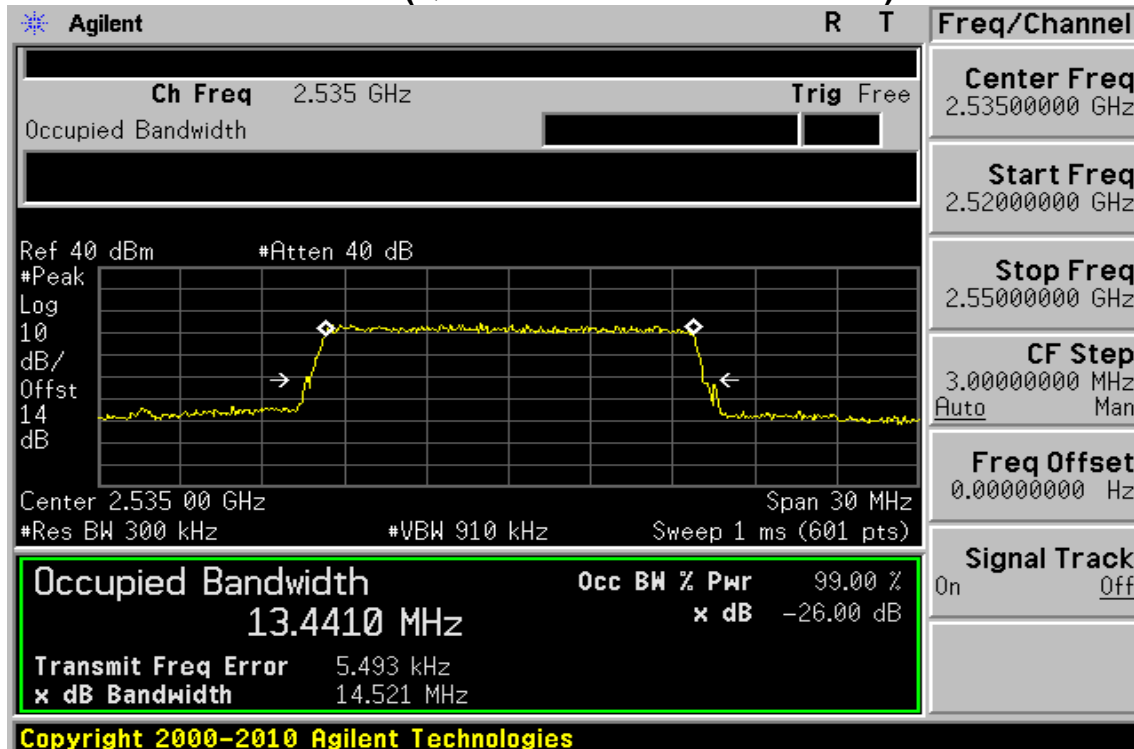
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15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low



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



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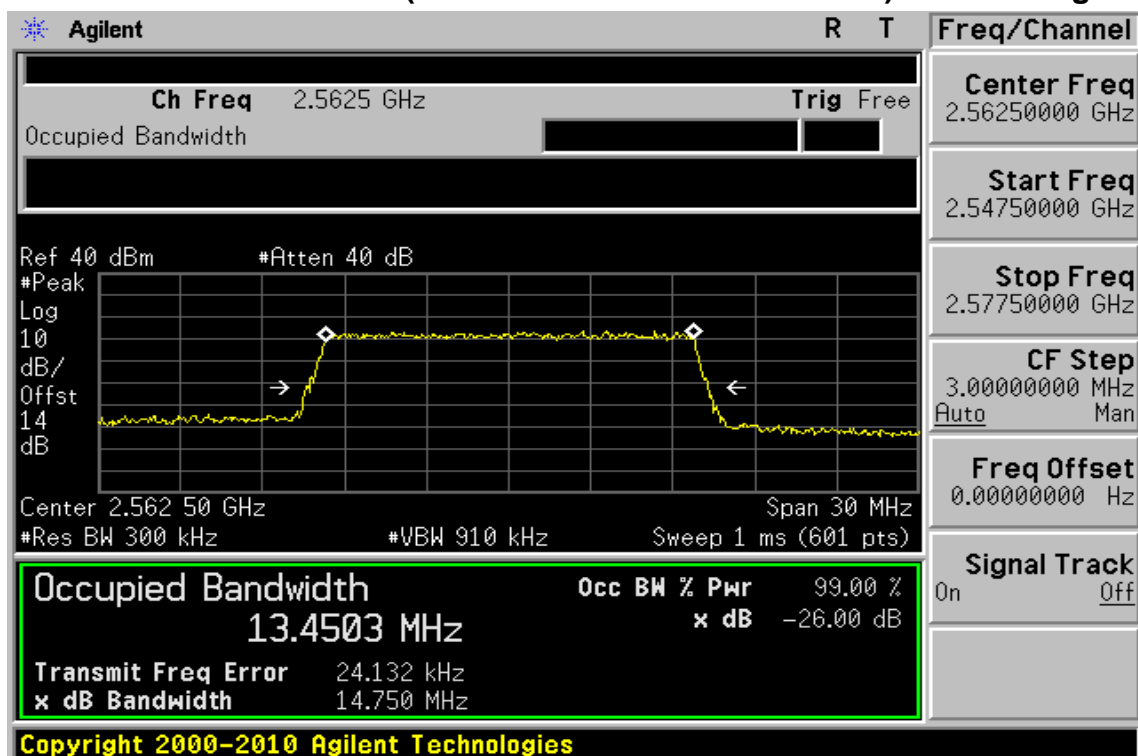
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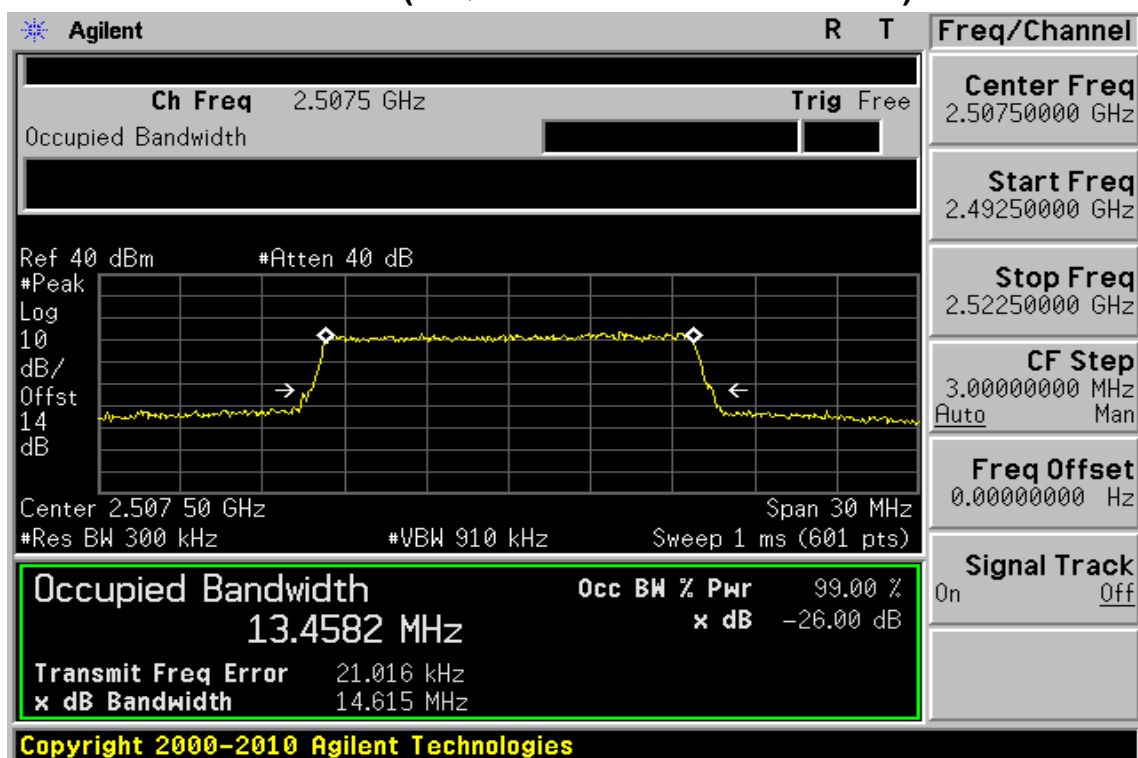
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15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High



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



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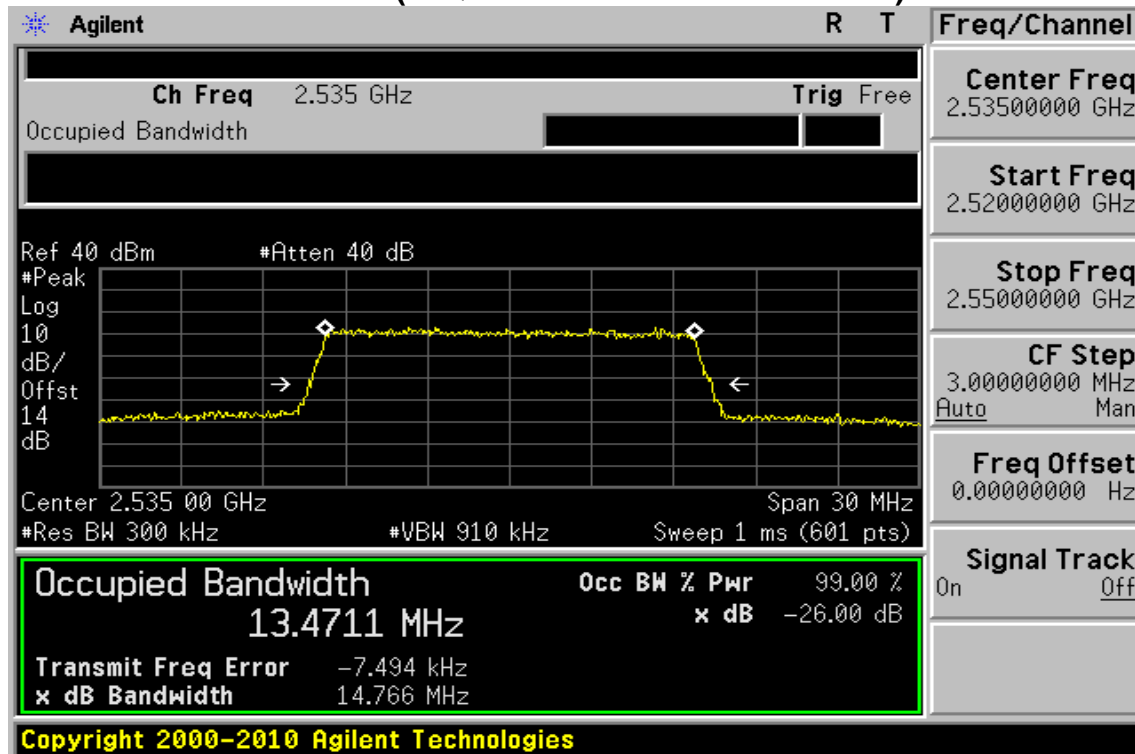
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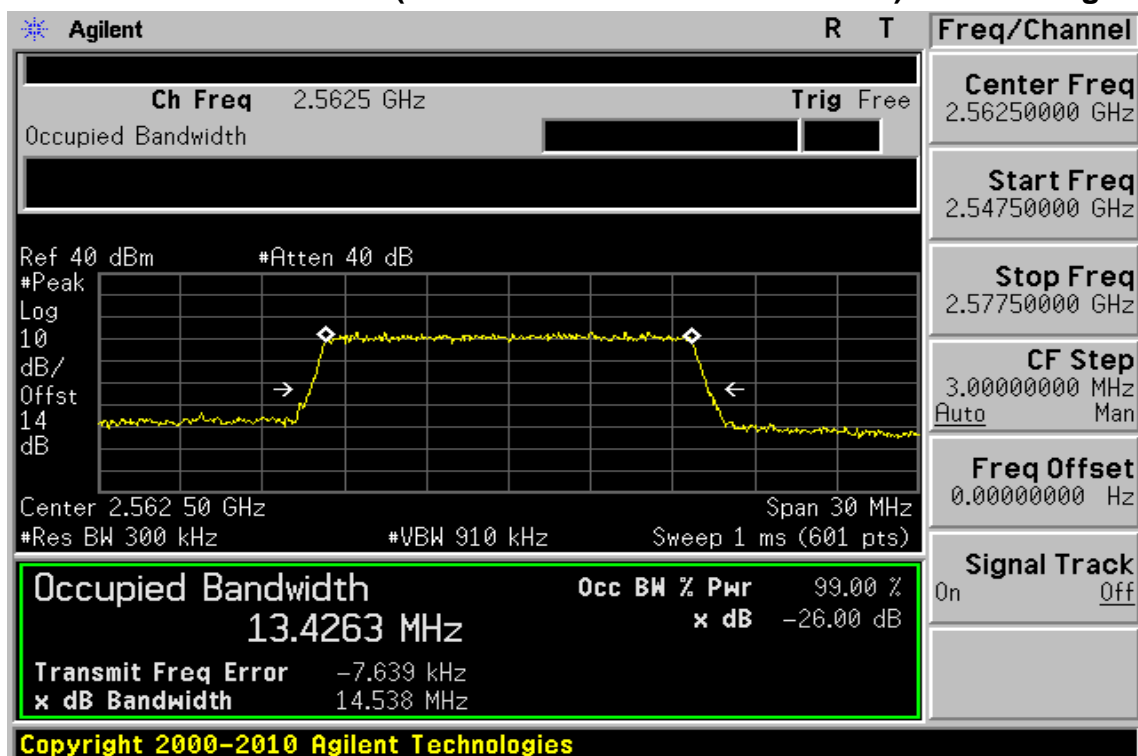
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15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid



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



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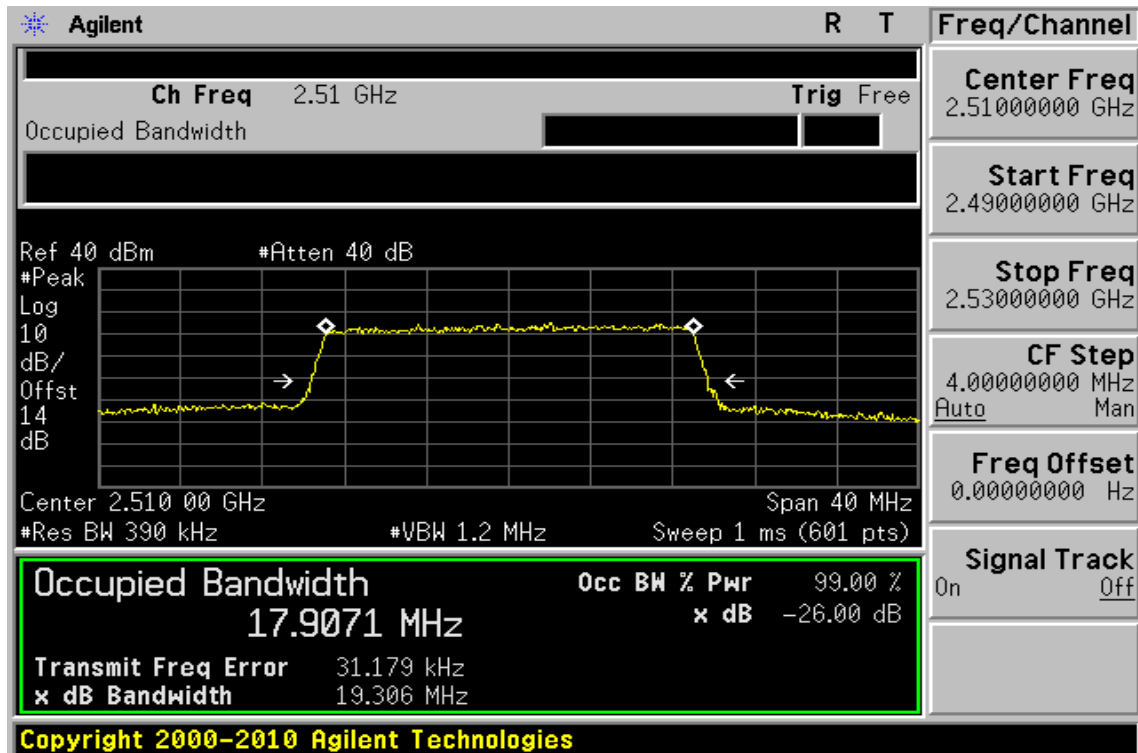
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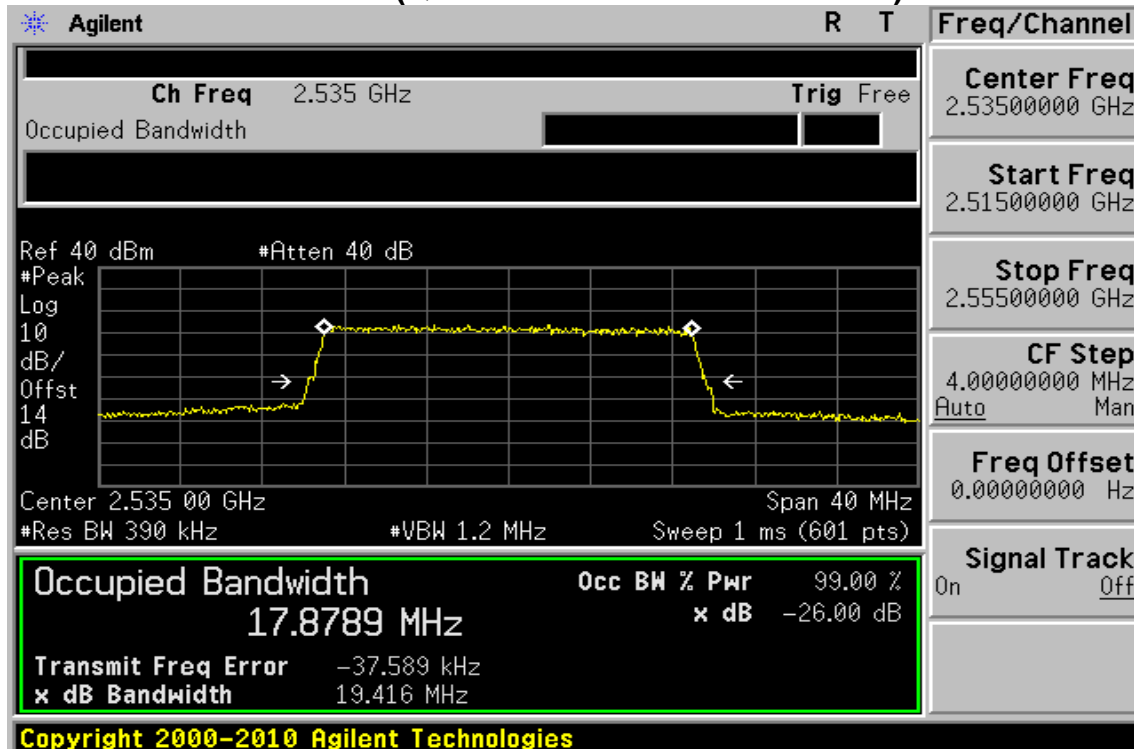
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20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low



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



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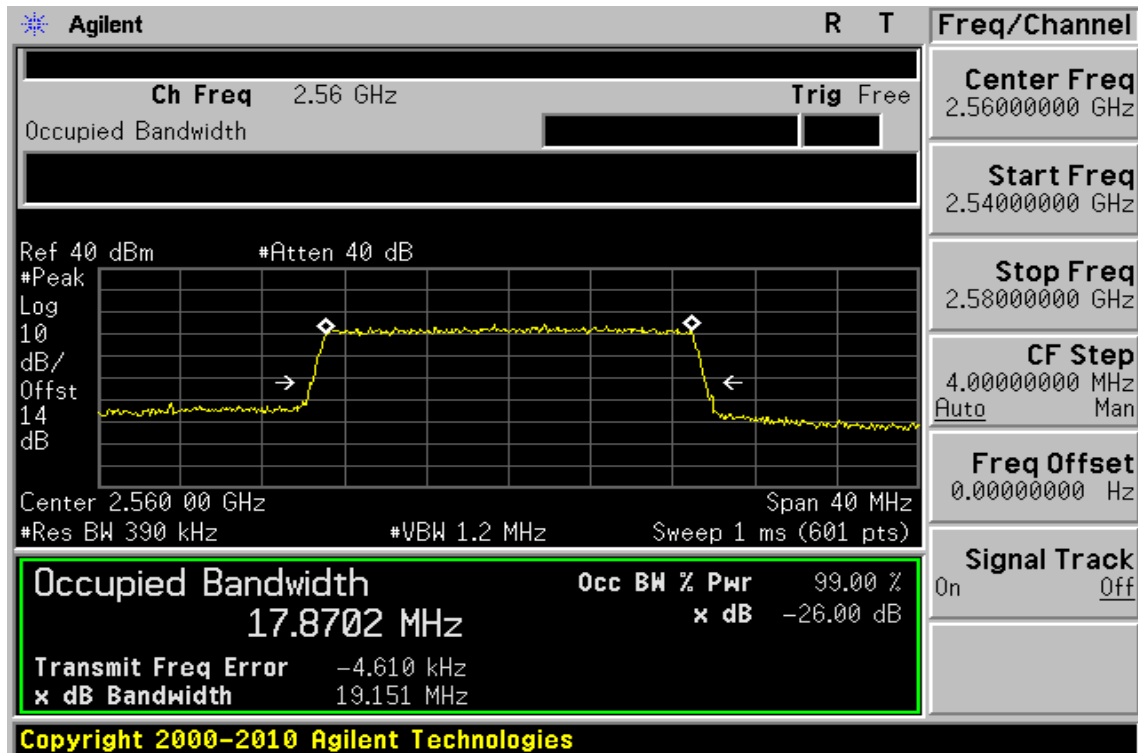
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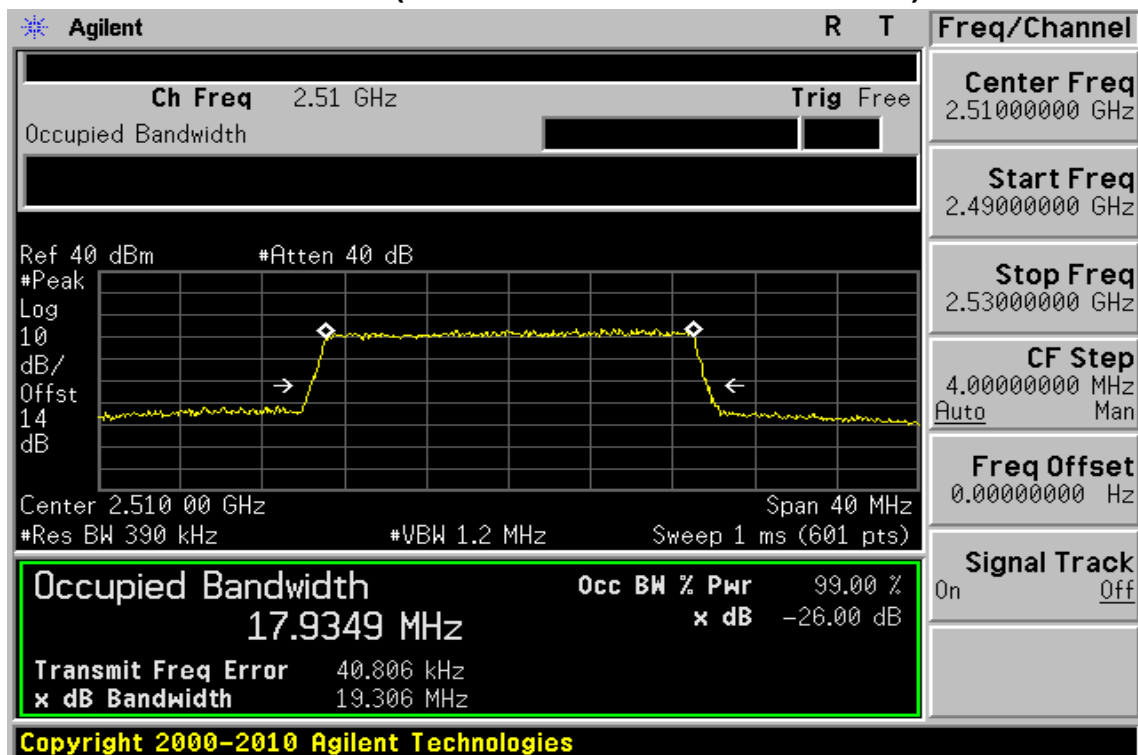
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20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High



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



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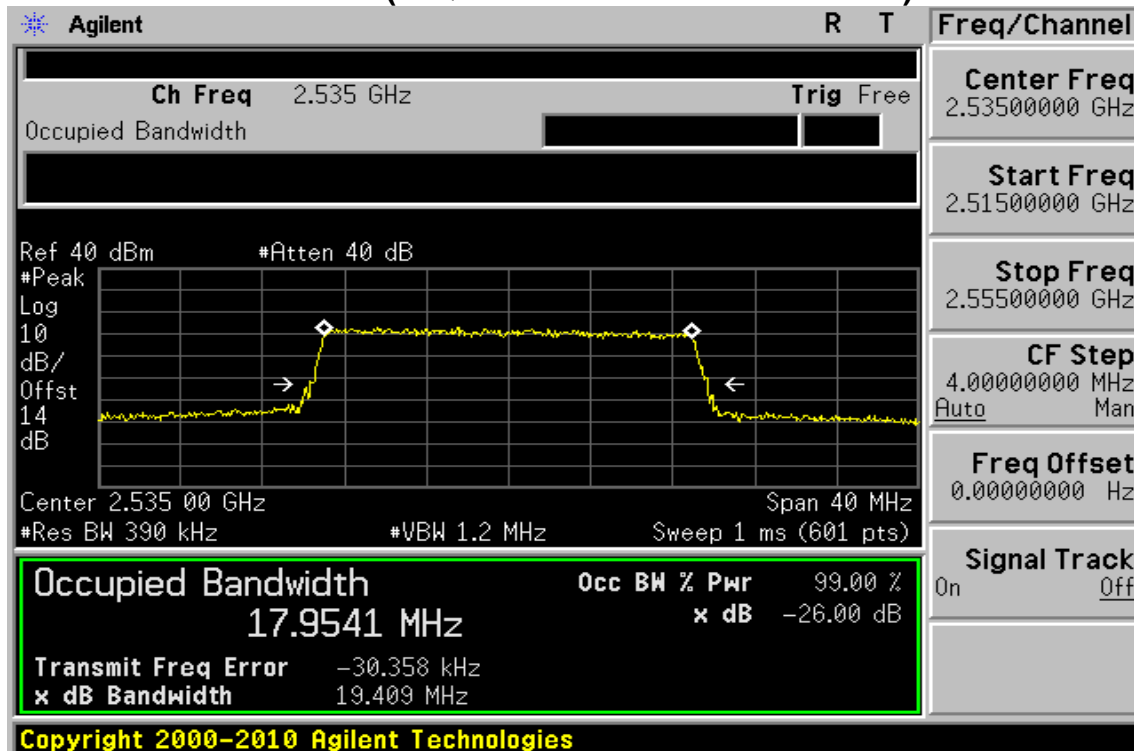
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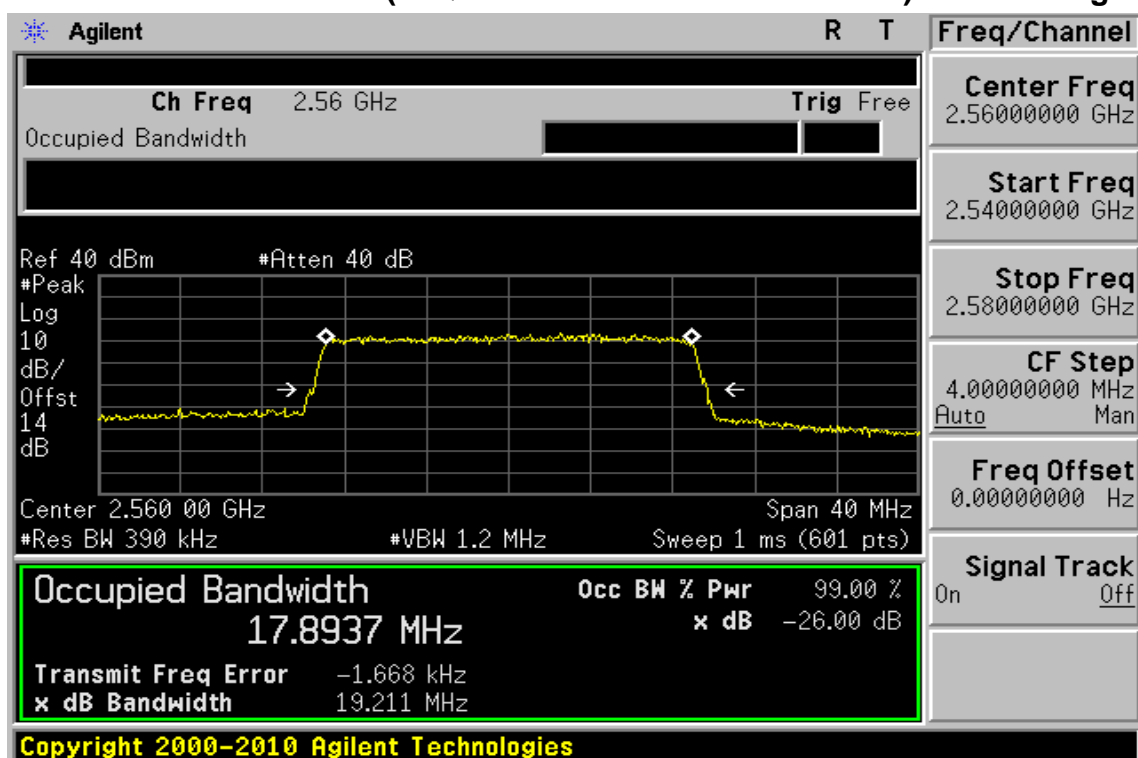
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20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid



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



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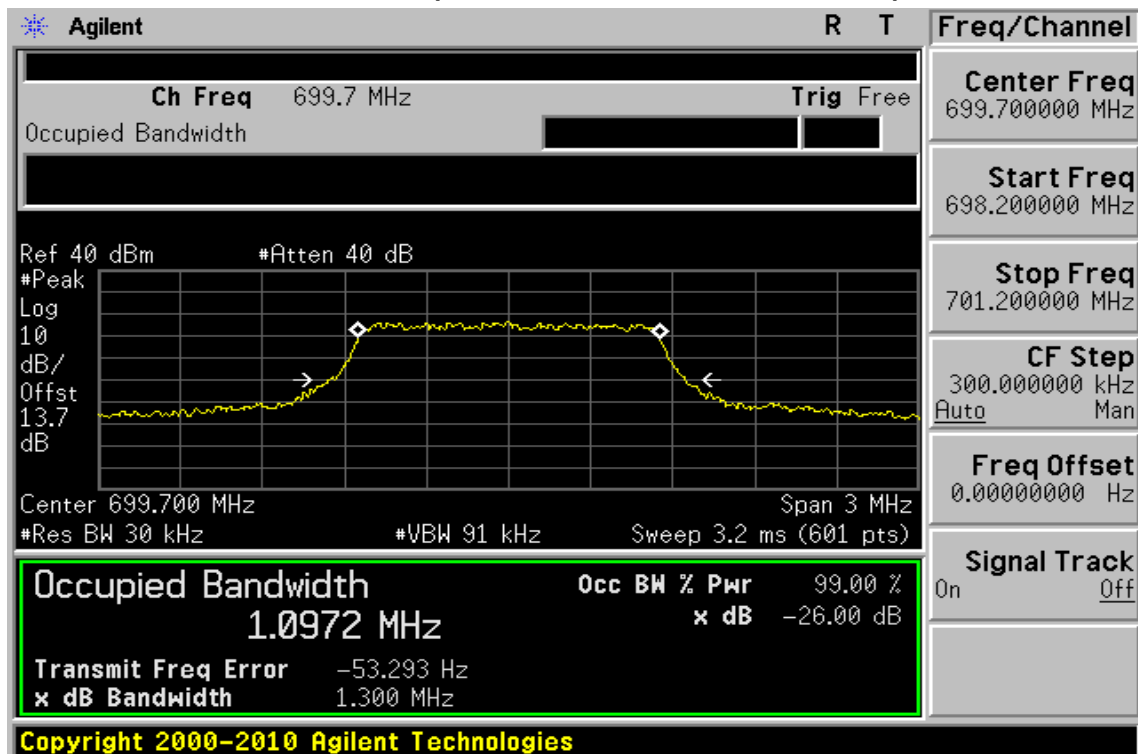
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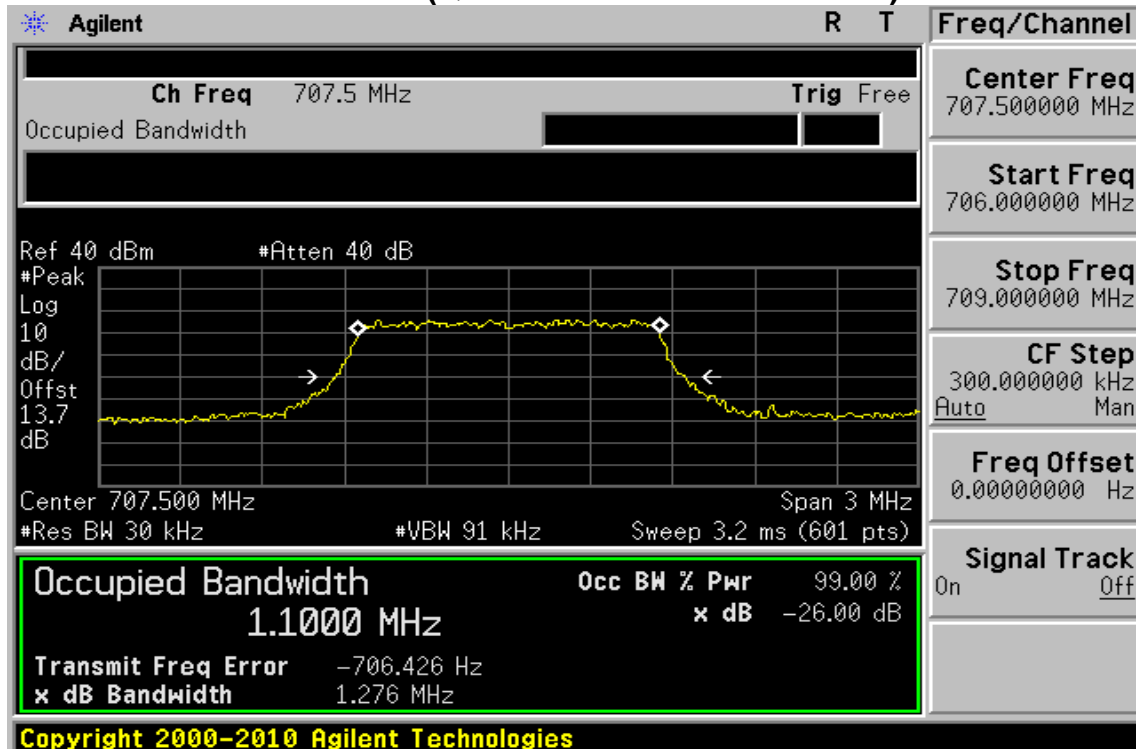
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1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel Low



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



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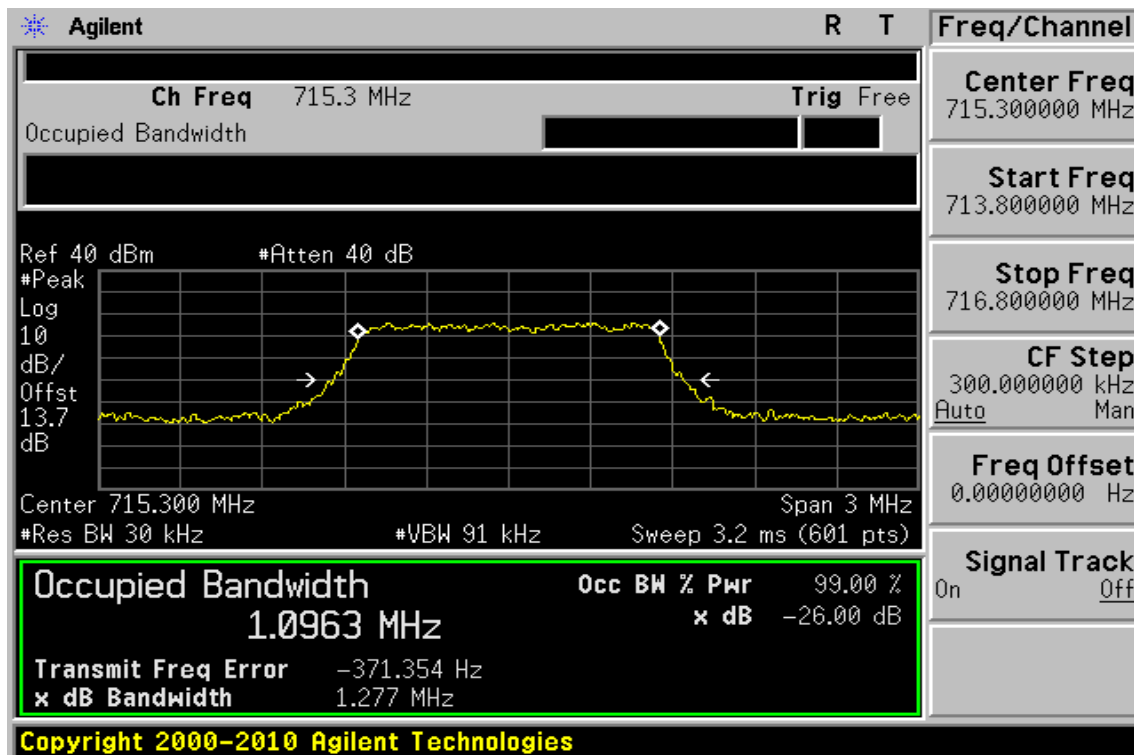
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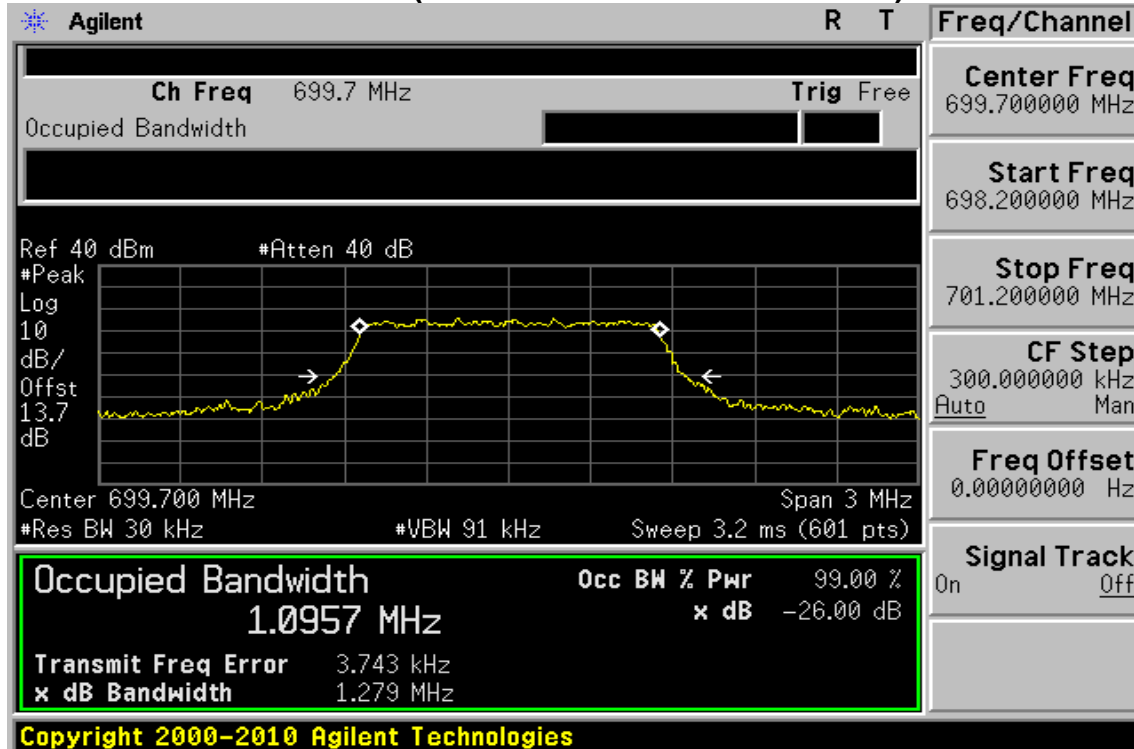
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1.4MHz BW LTE-Band 12(QPSK RB Number: 6 Offset: 0) Channel High



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



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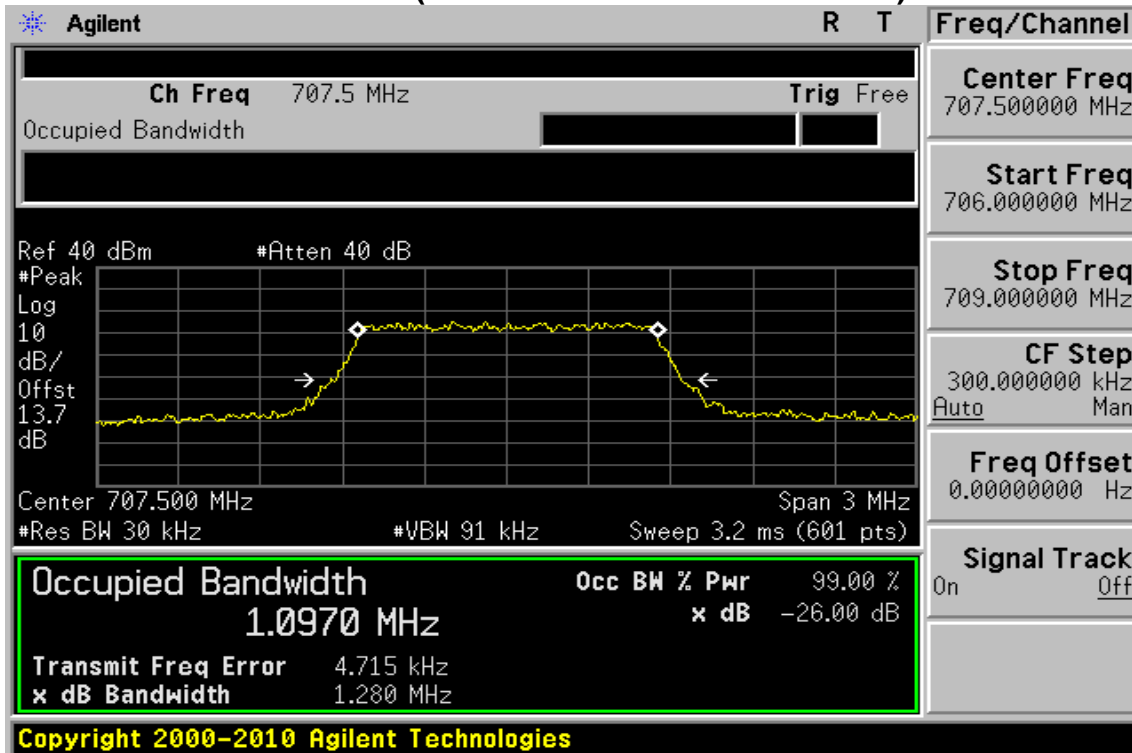
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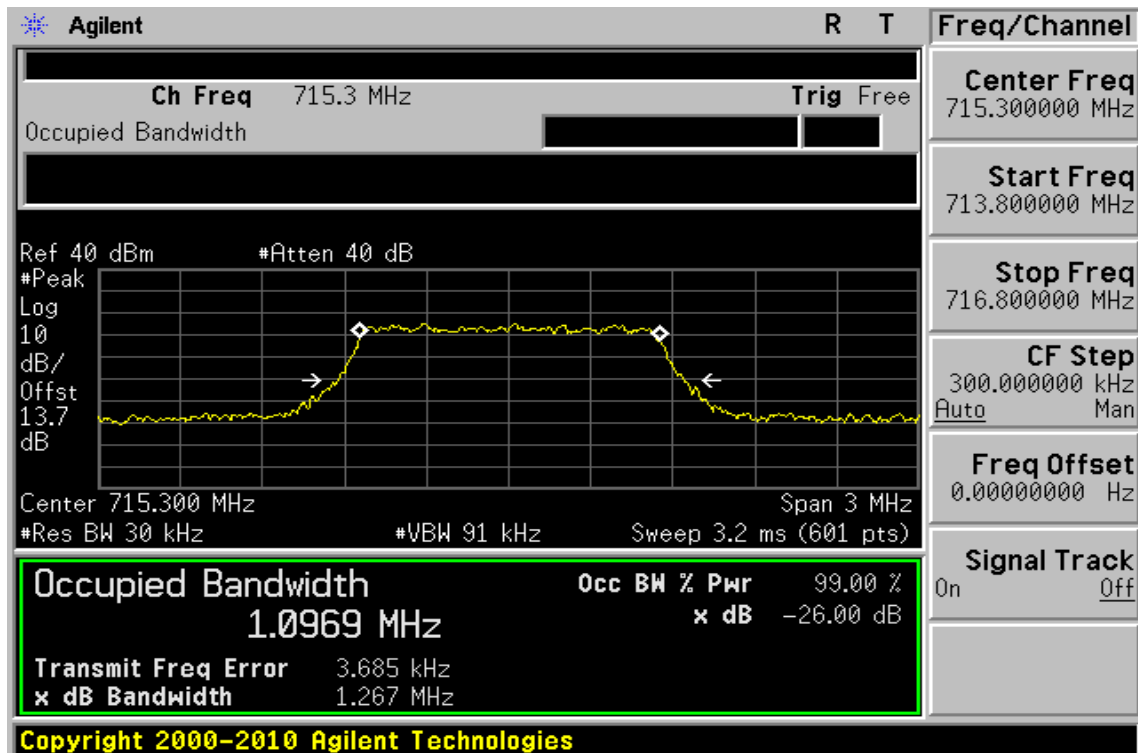
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1.4MHz BW LTE-Band 12(16QAM RB Number: 6 Offset: 0) Channel Mid



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



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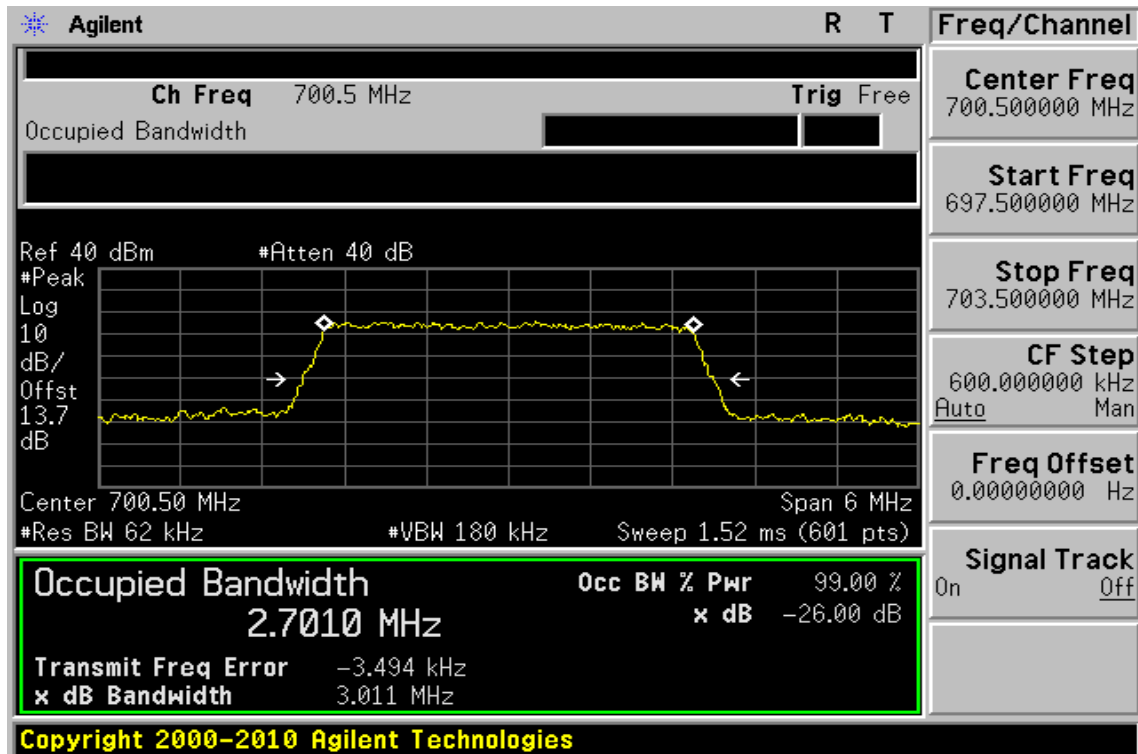
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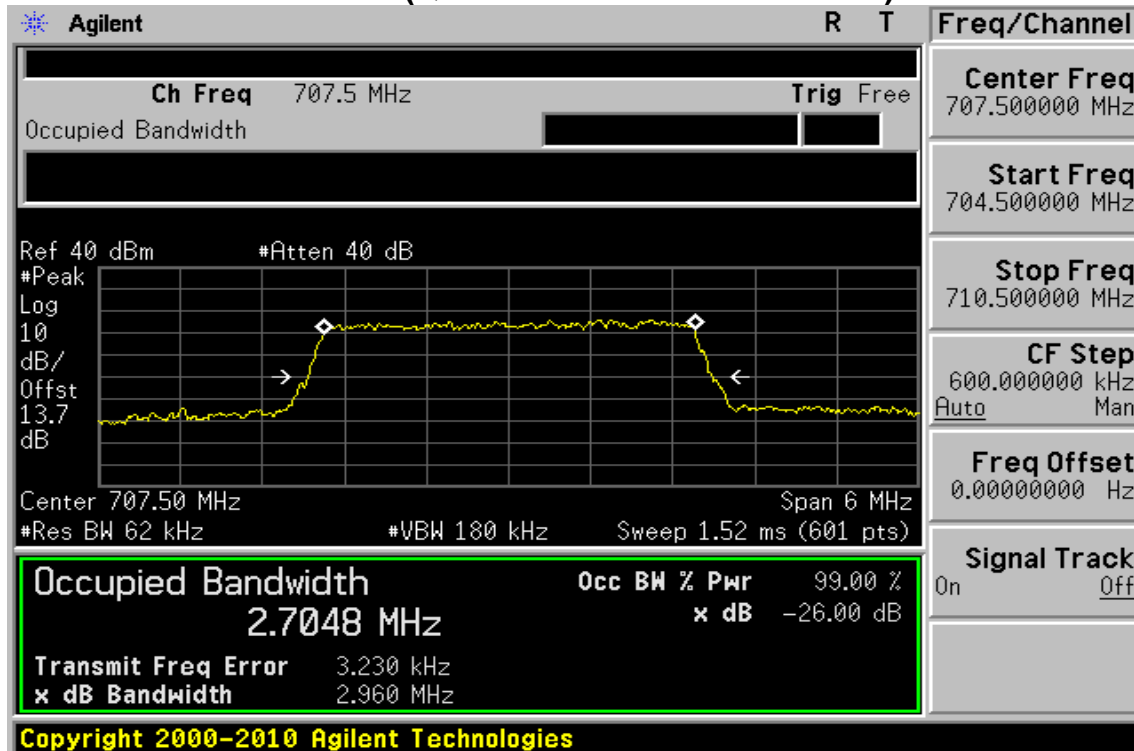
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3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel Low



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



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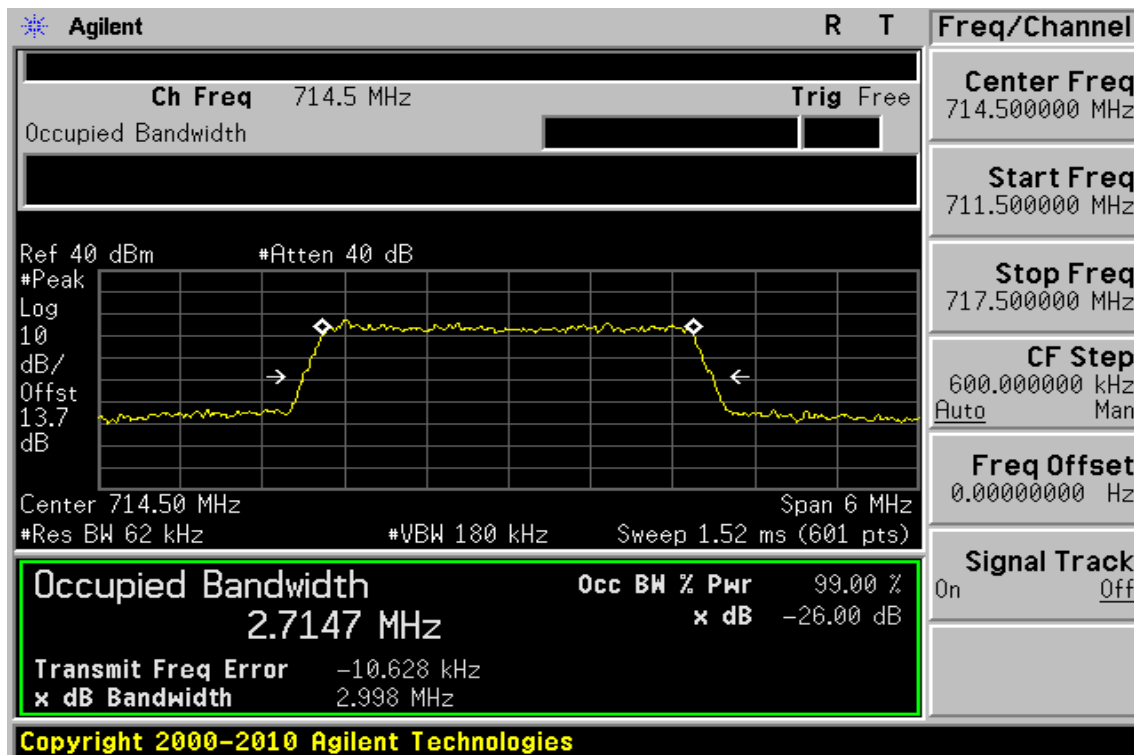
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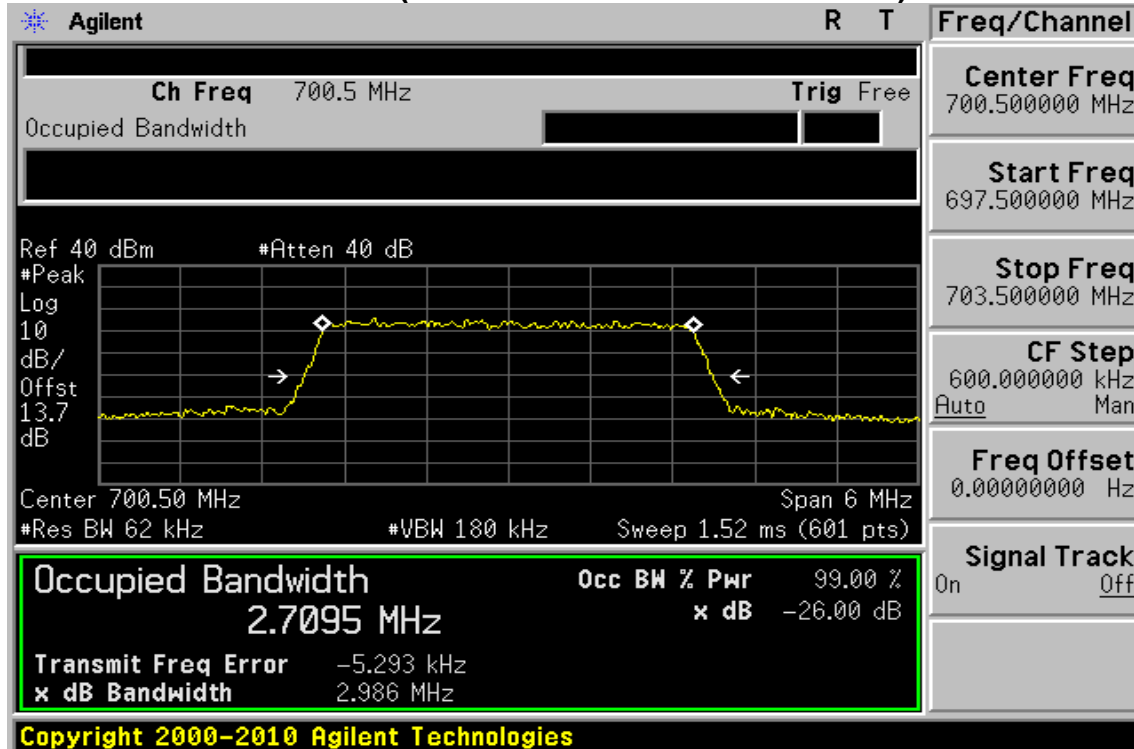
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3MHz BW LTE-Band 12(QPSK RB Number: 15 Offset: 0) Channel High



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



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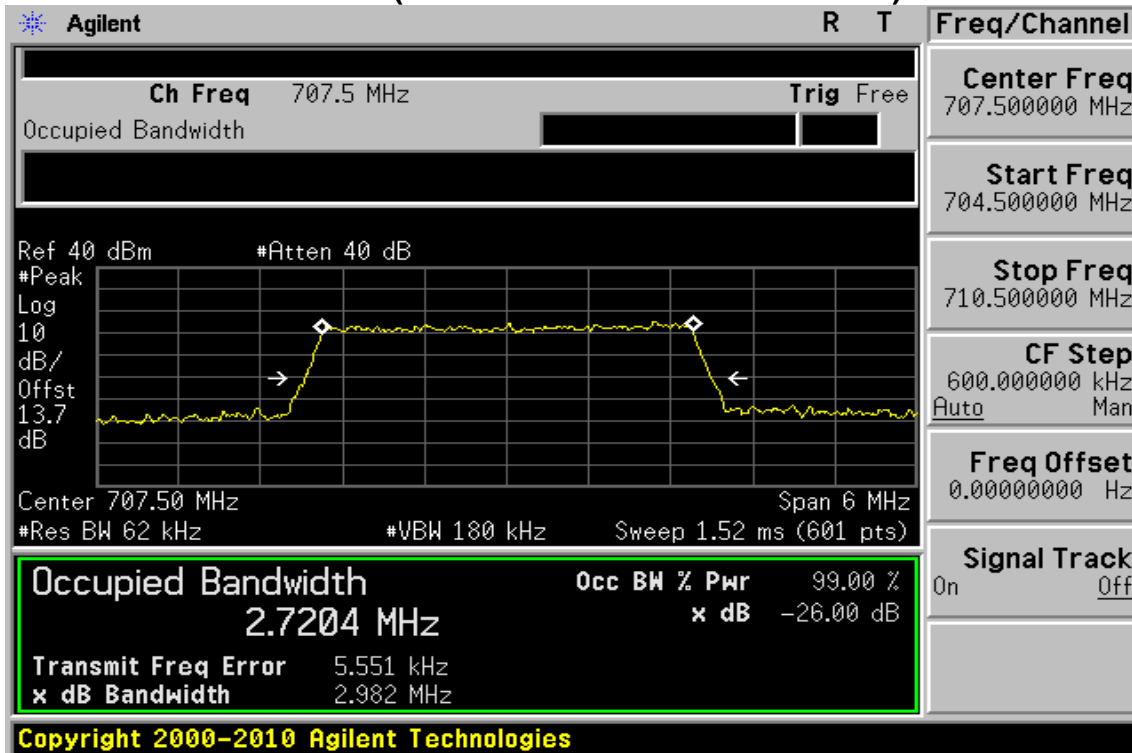
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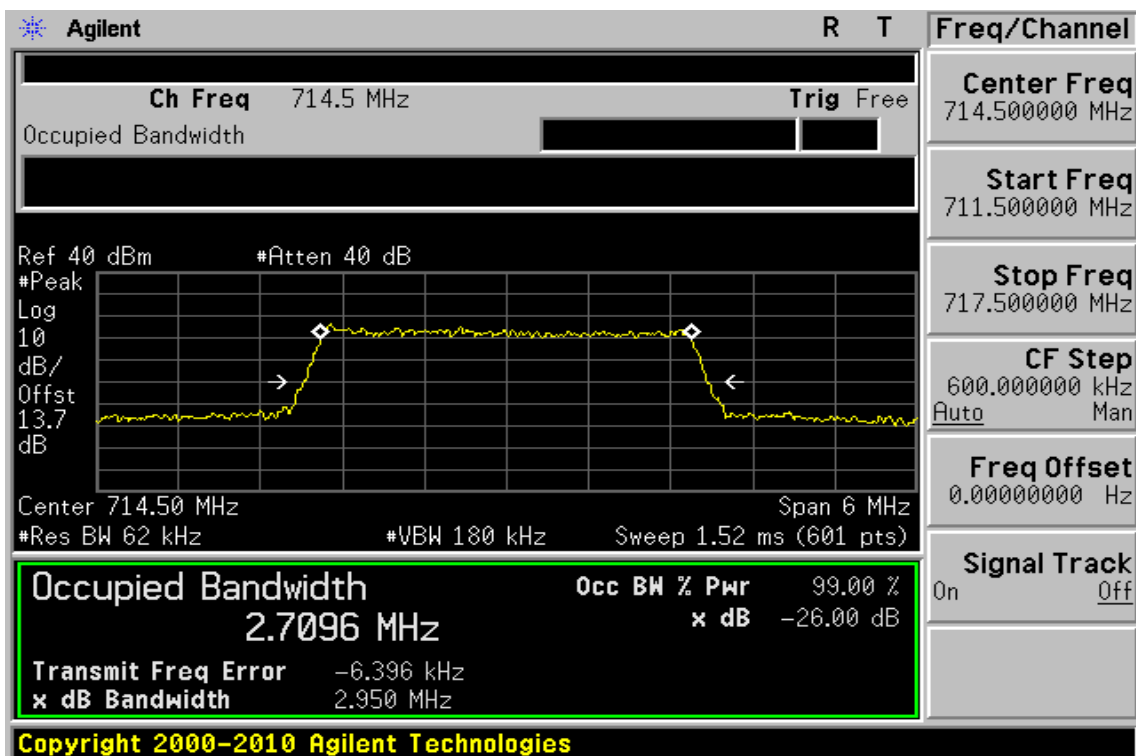
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3MHz BW LTE-Band 12(16QAM RB Number: 15 Offset: 0) Channel Mid



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



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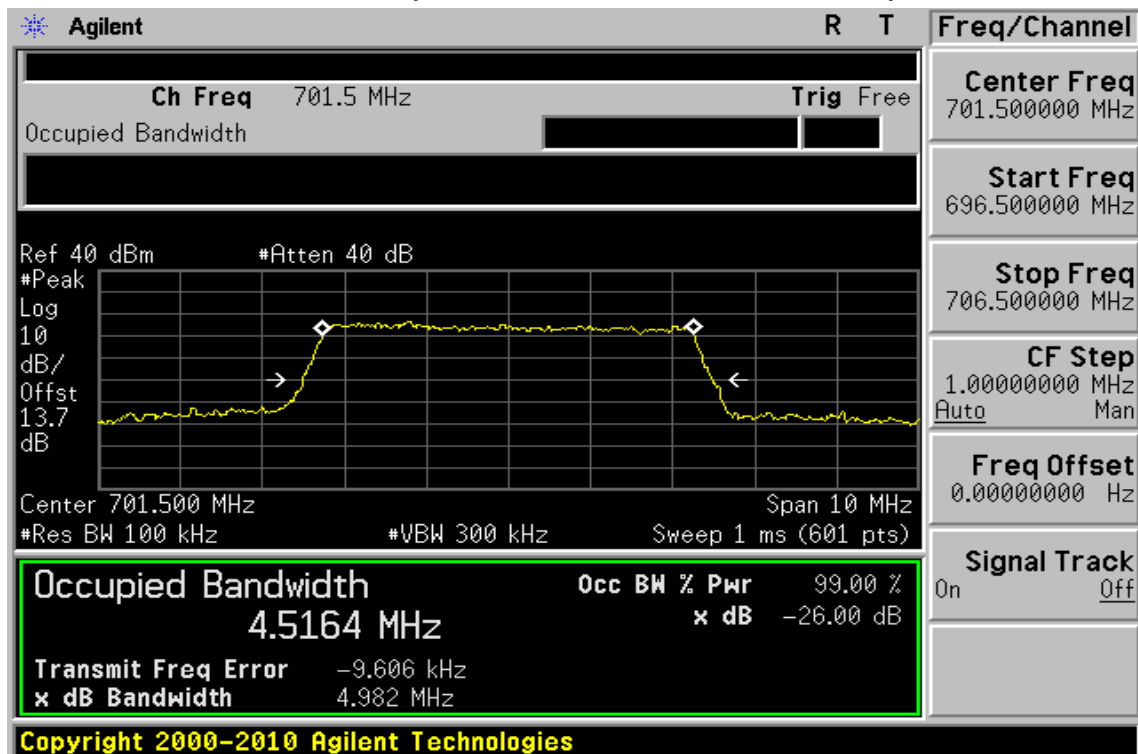
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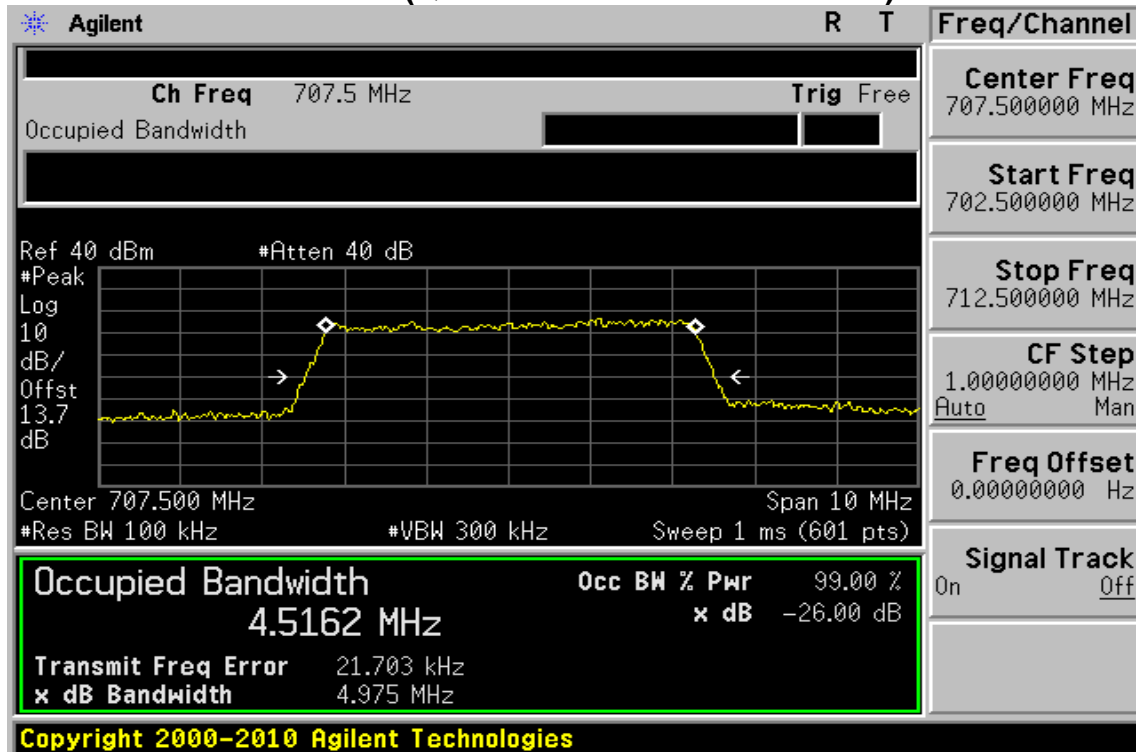
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5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel Low



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



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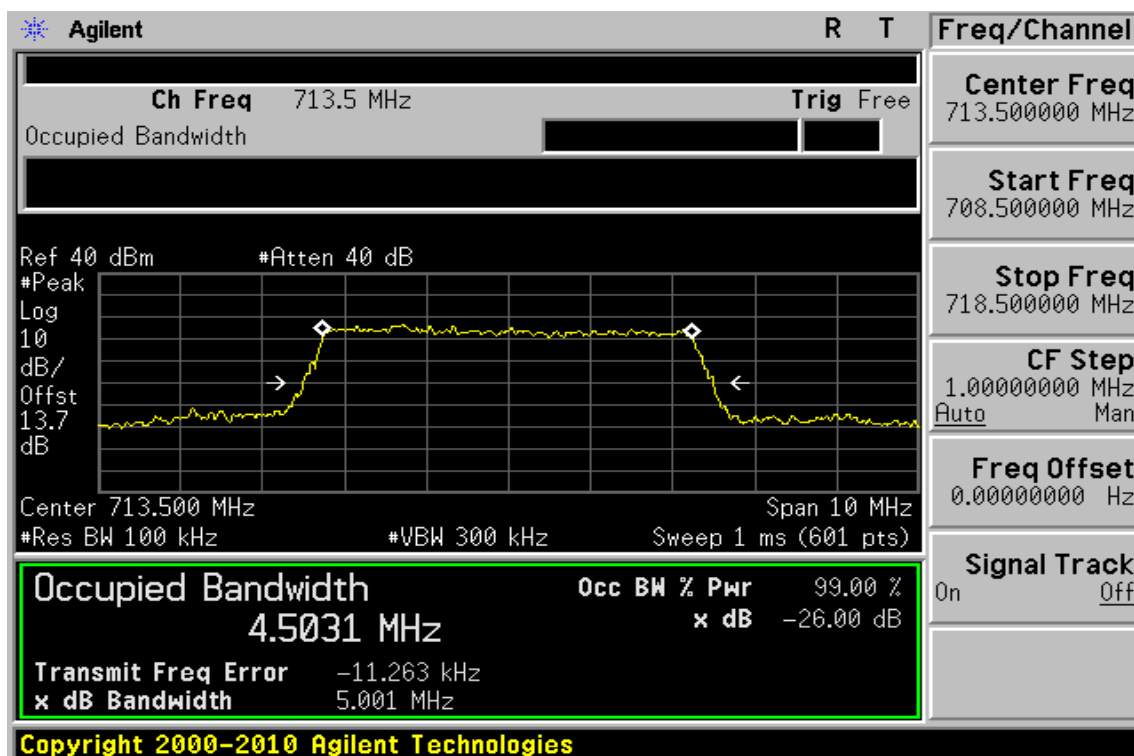
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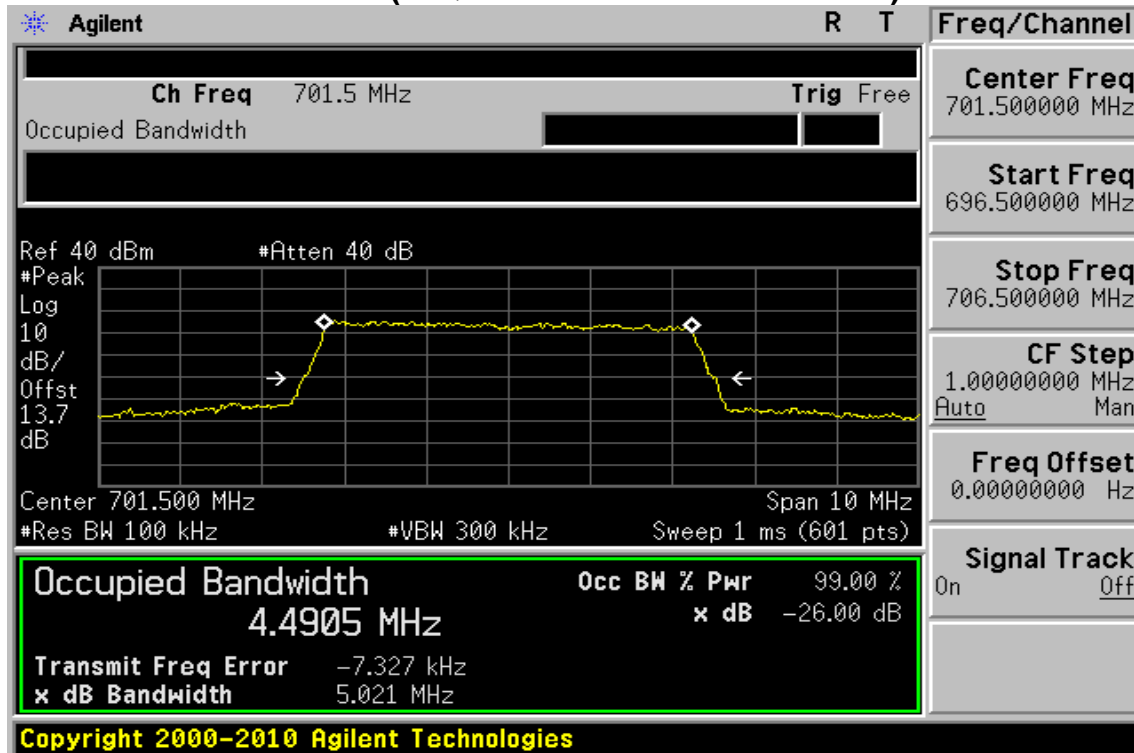
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5MHz BW LTE-Band 12(QPSK RB Number: 25 Offset: 0) Channel High



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



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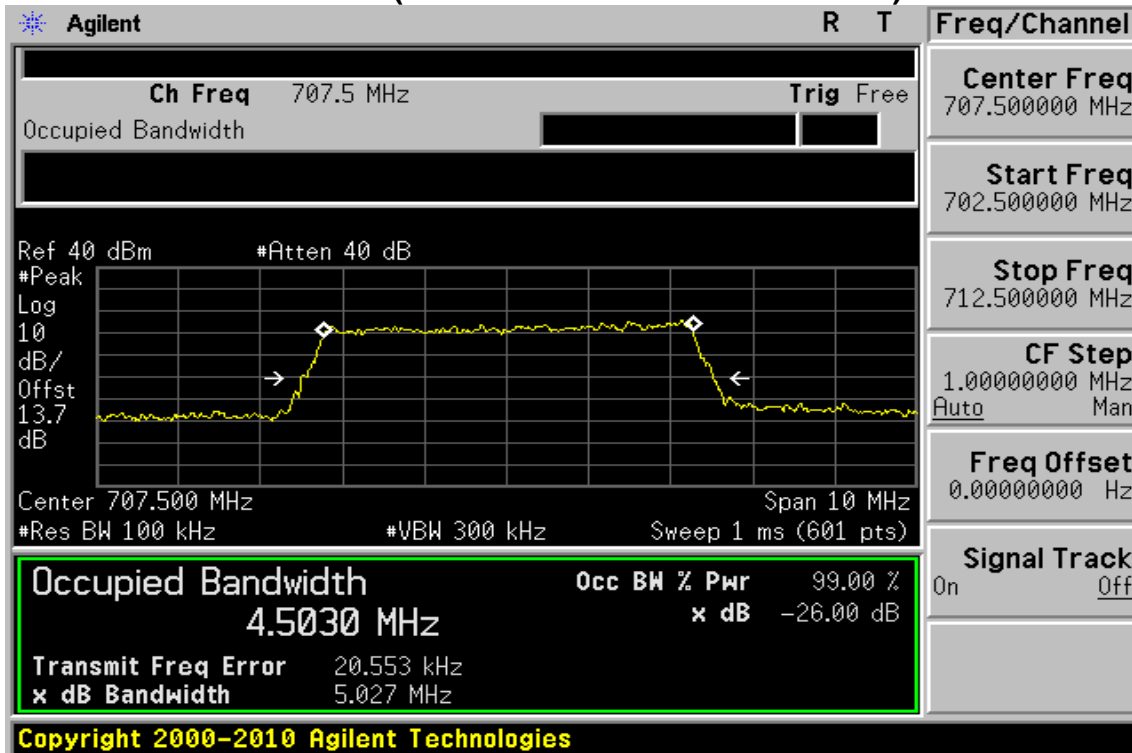
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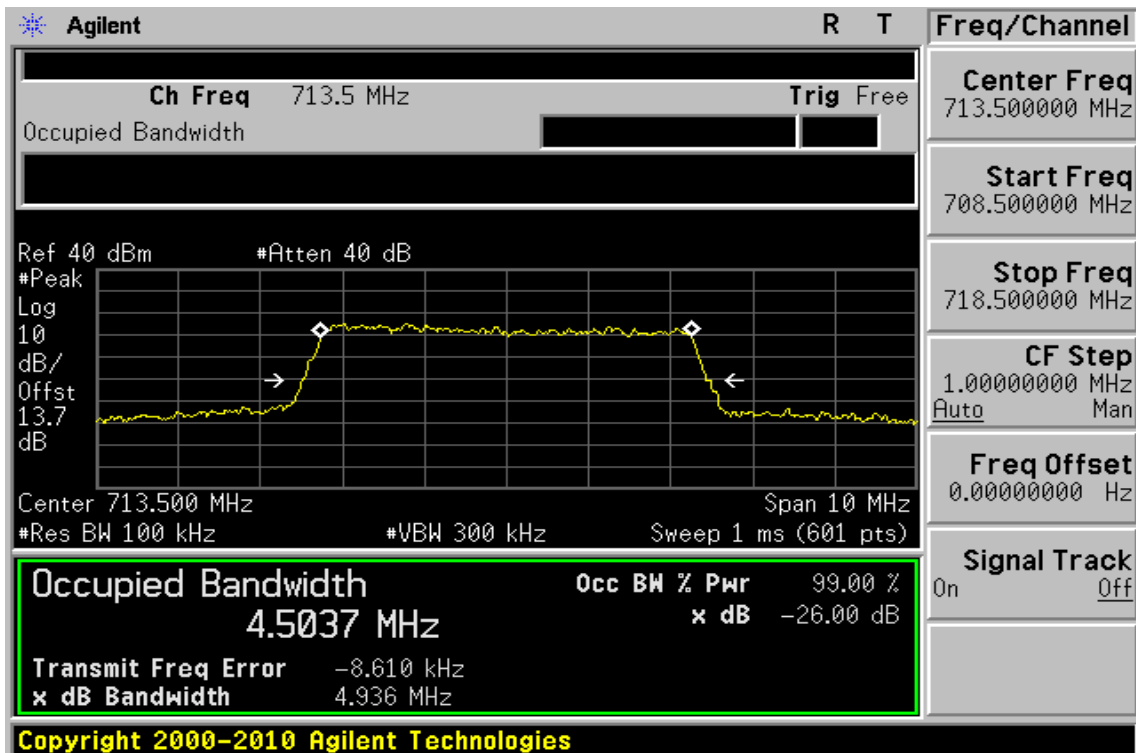
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5MHz BW LTE-Band 12(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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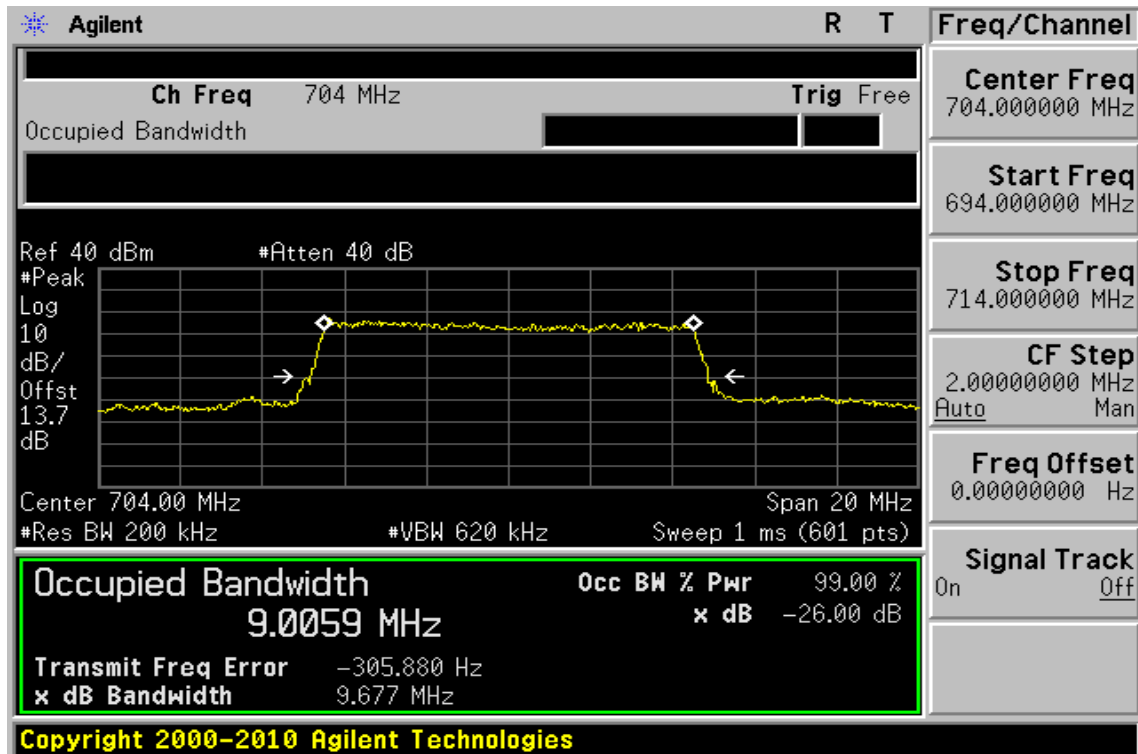
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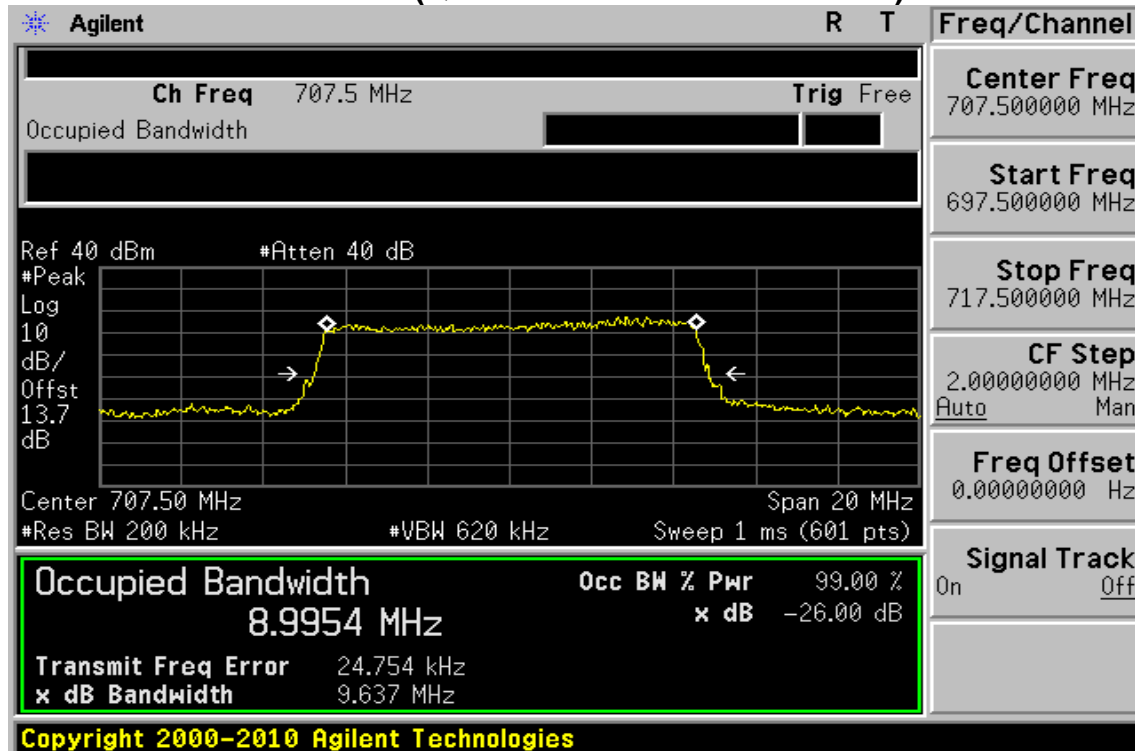
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10MHz BW LTE-Band 12(QPSK RB Number: 50 Offset: 0) Channel Low



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



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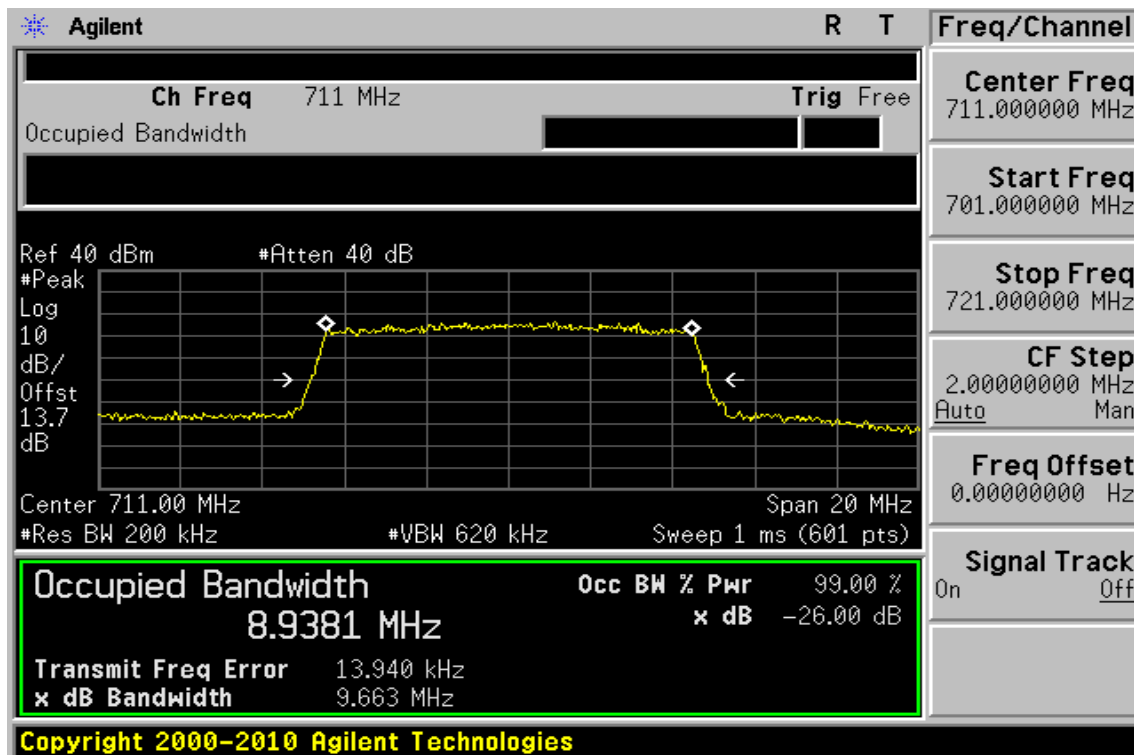
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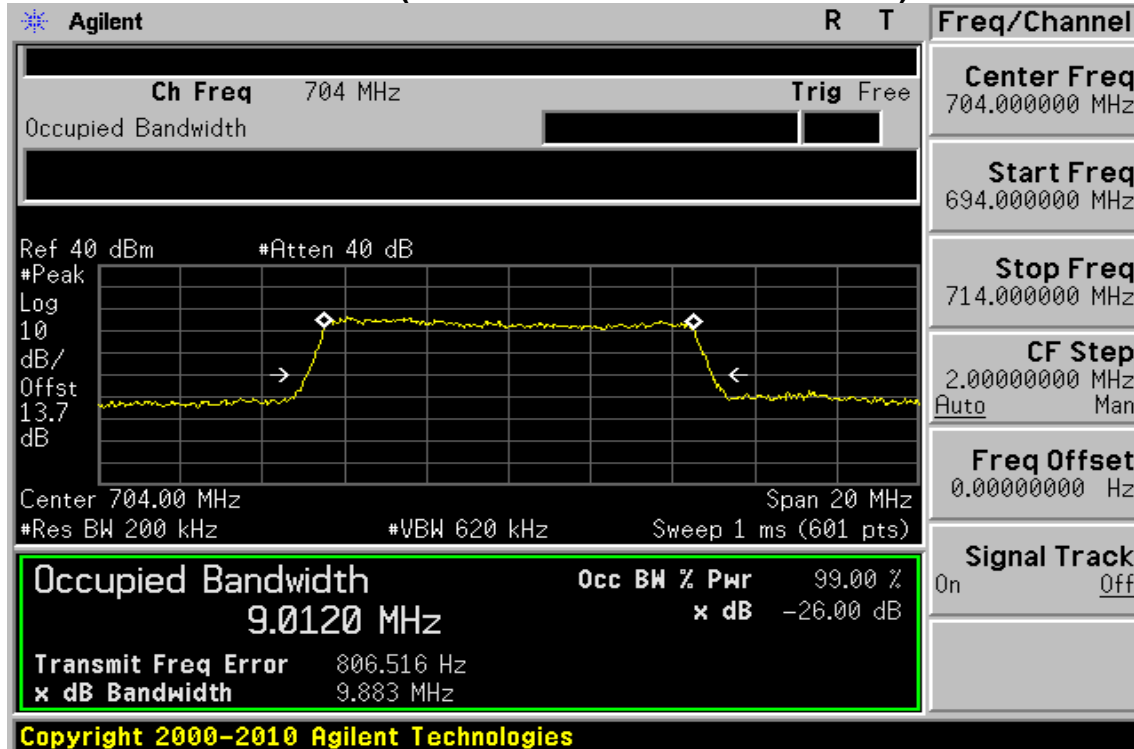
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10MHz BW LTE-Band 12 (QPSK RB Number: 50 Offset: 0) Channel High



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



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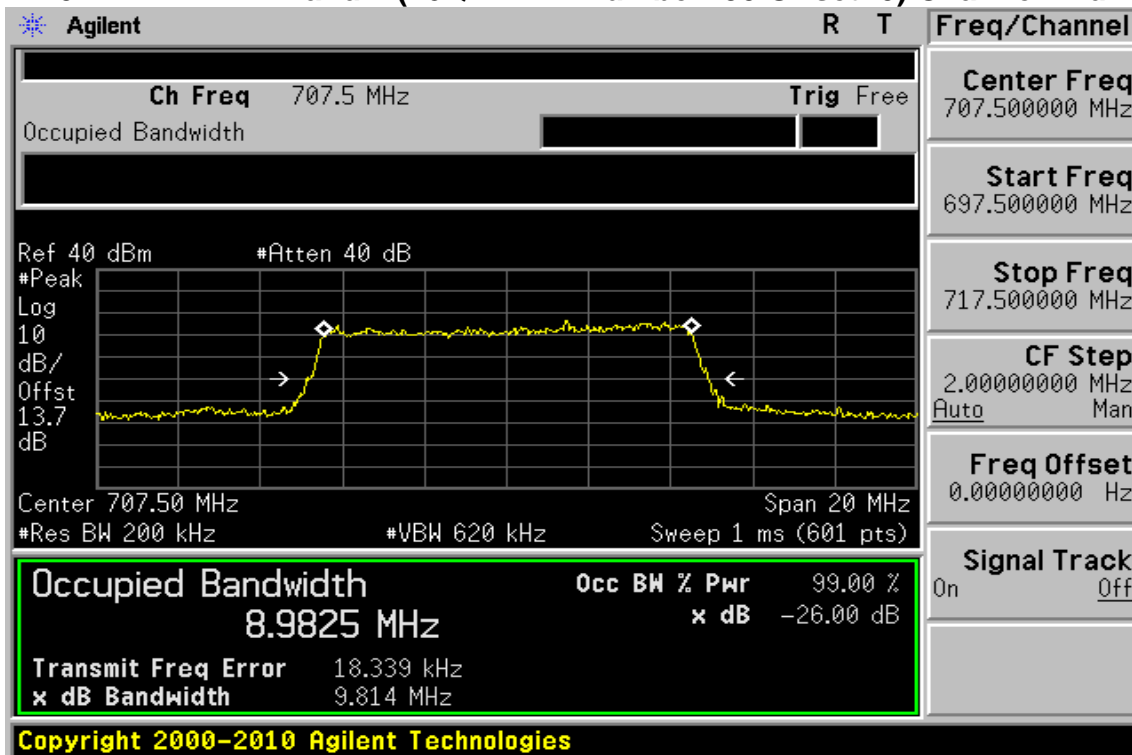
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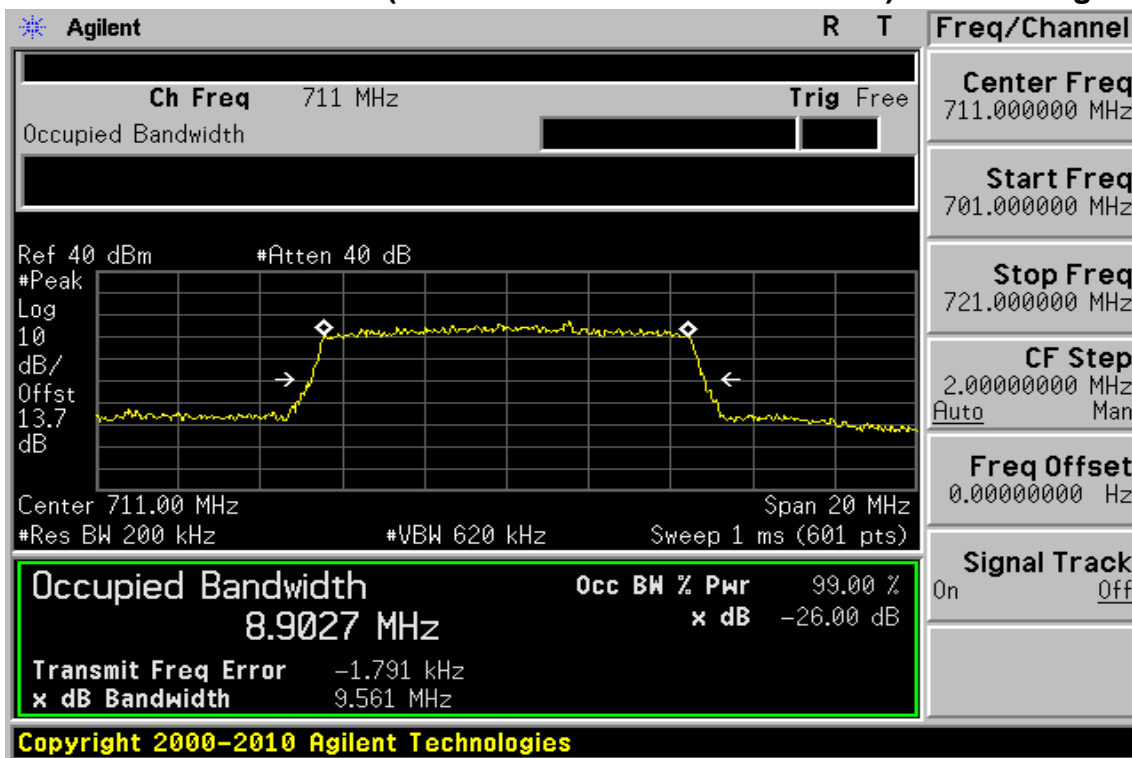
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10MHz BW LTE-Band12(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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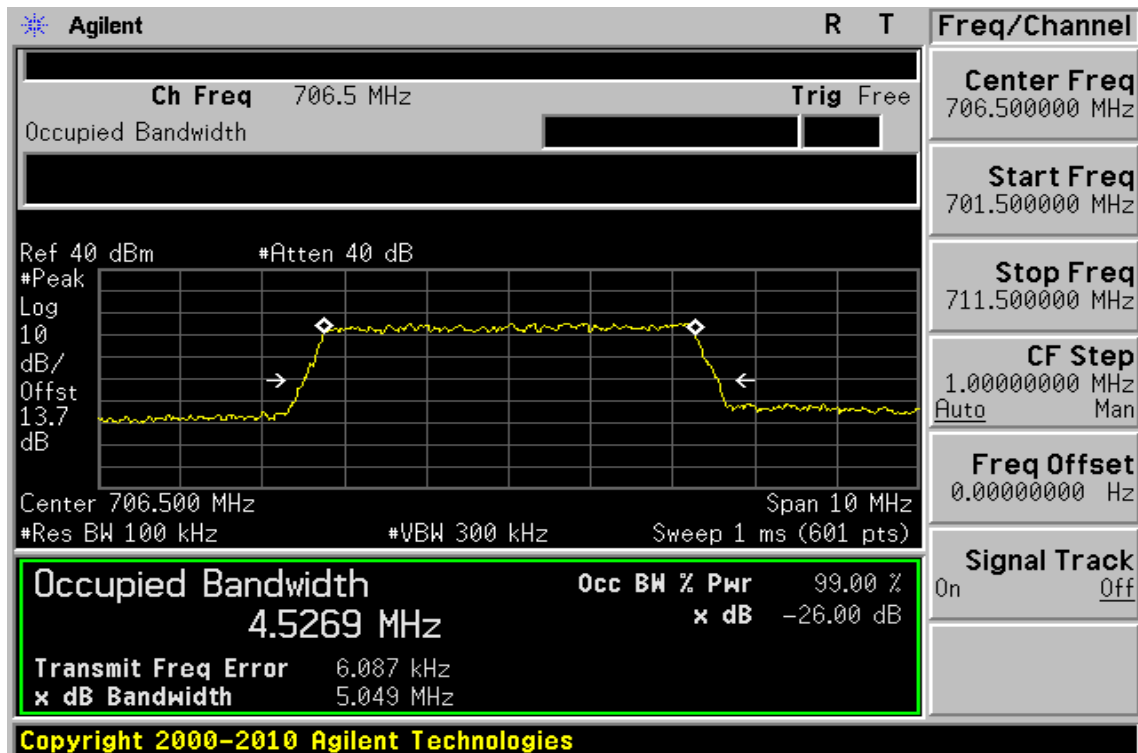
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f (886-2) 2298-0488

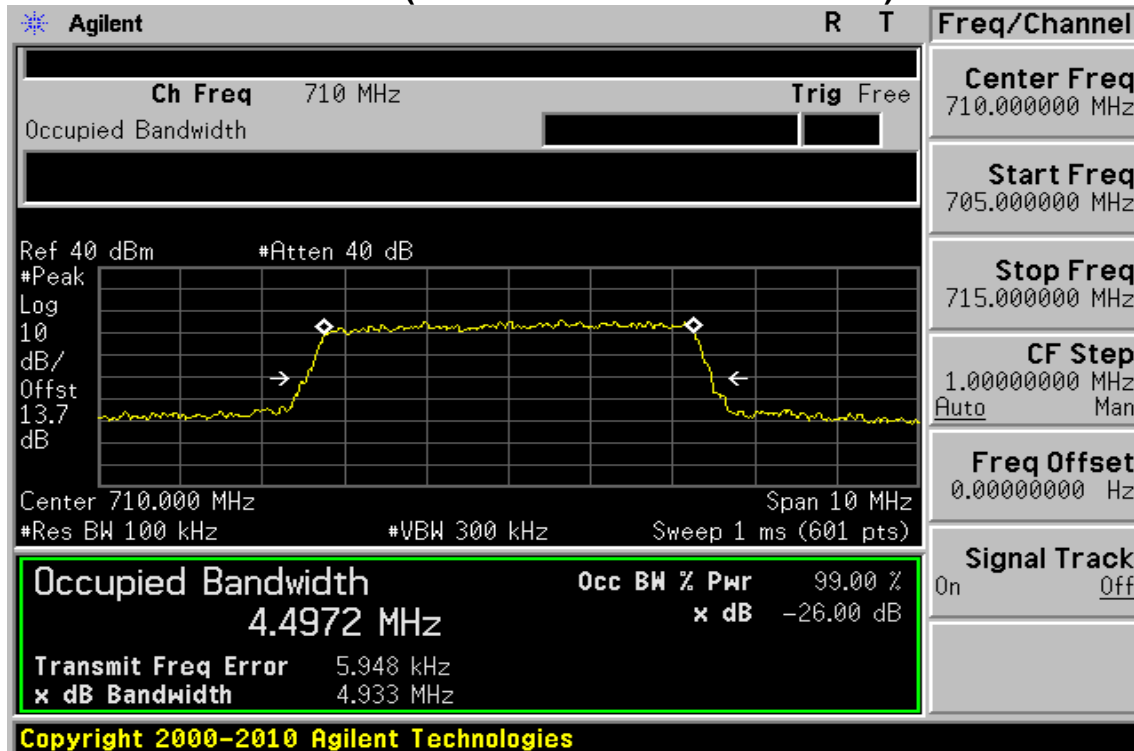
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5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Low



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



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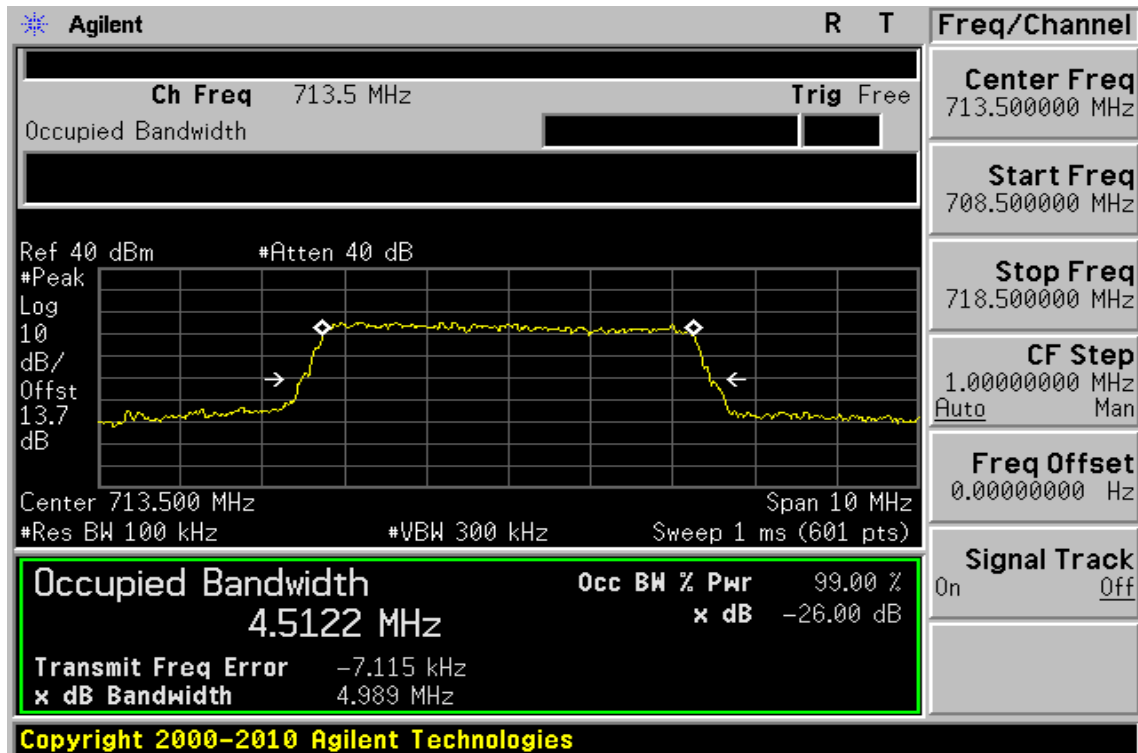
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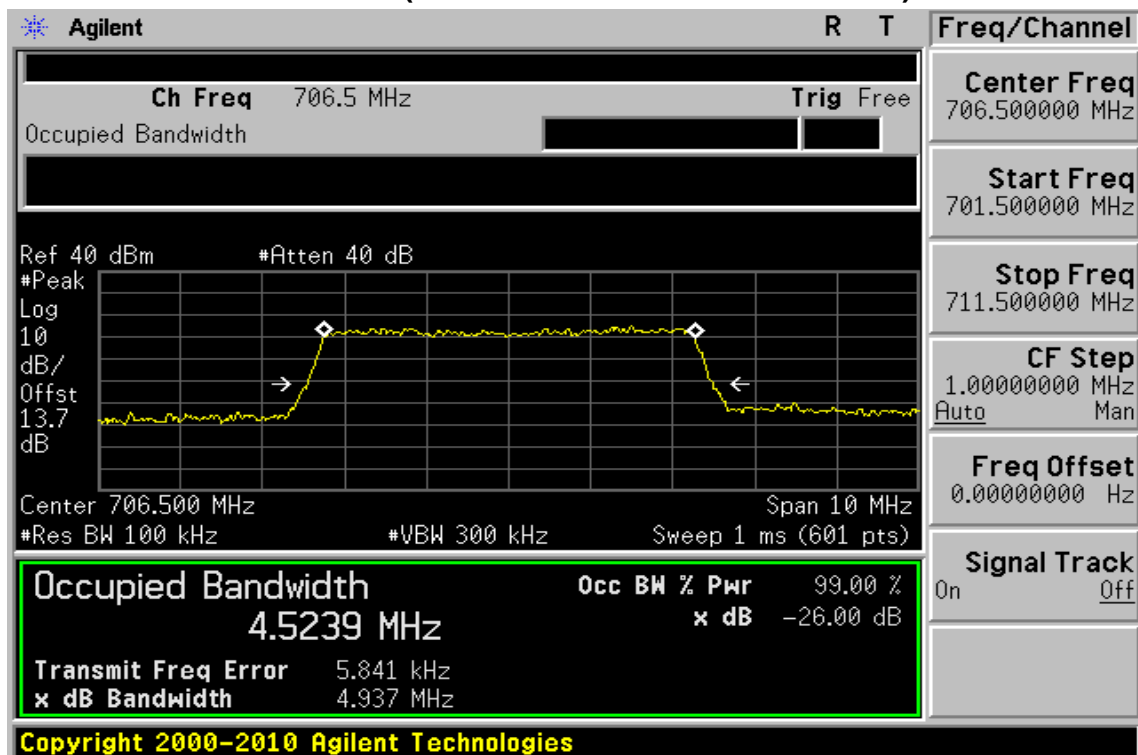
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5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel High



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



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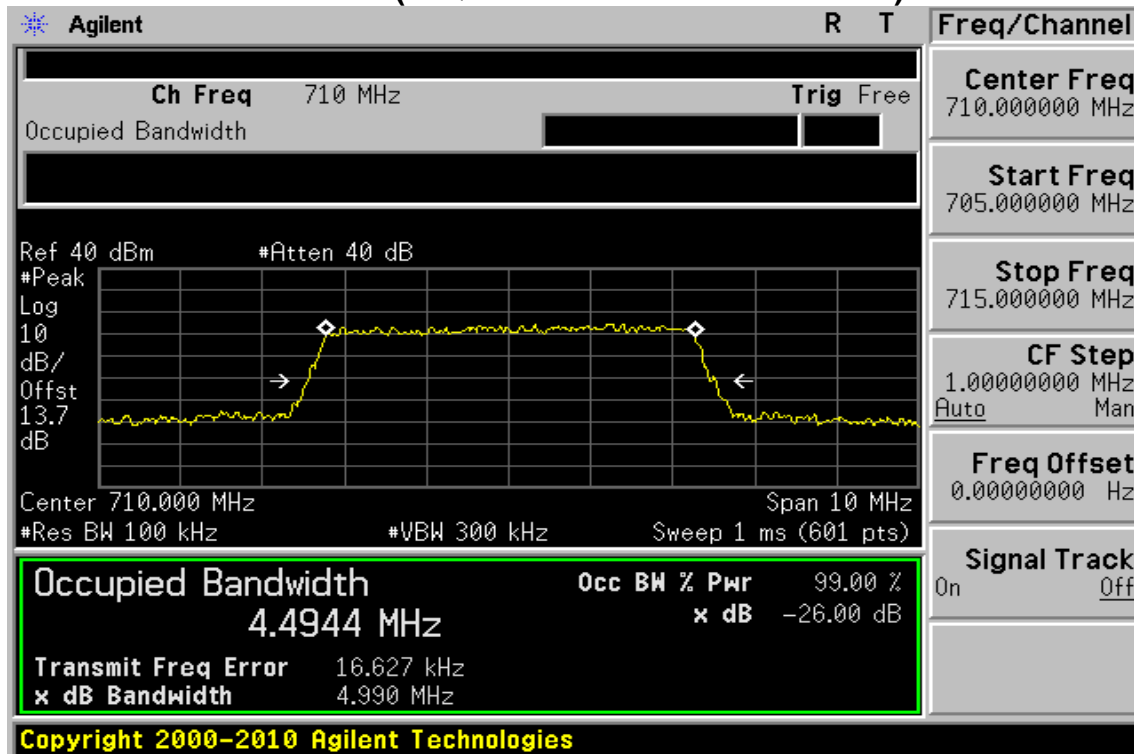
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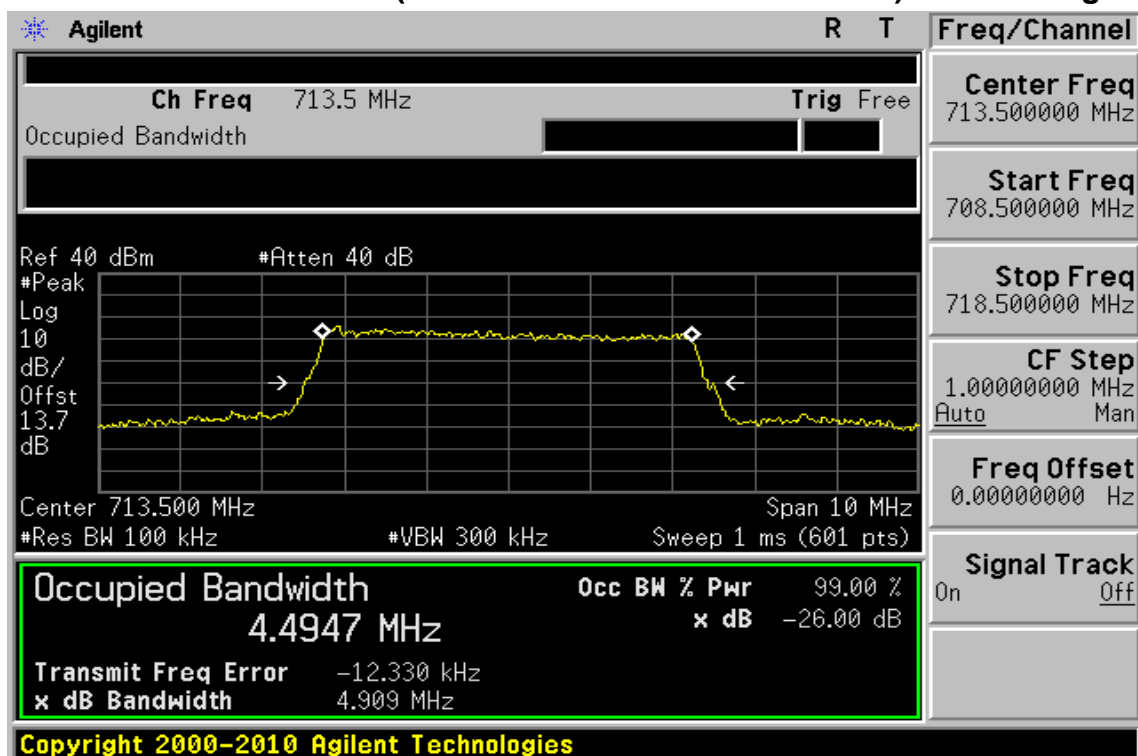
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5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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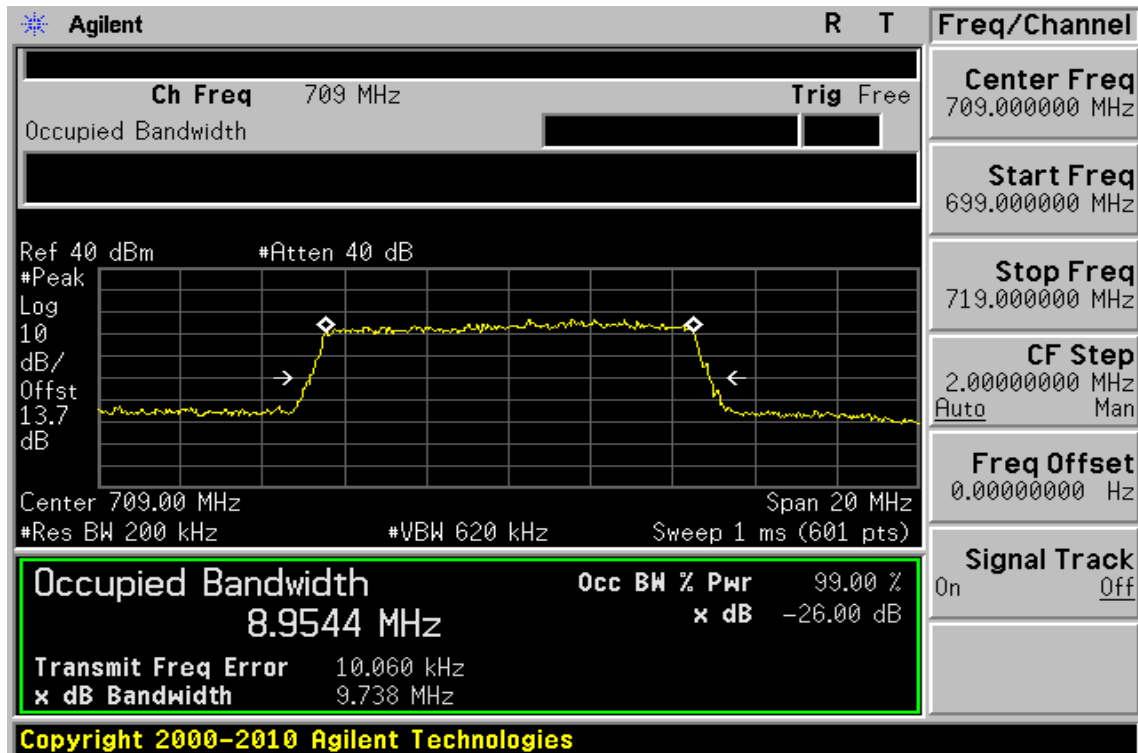
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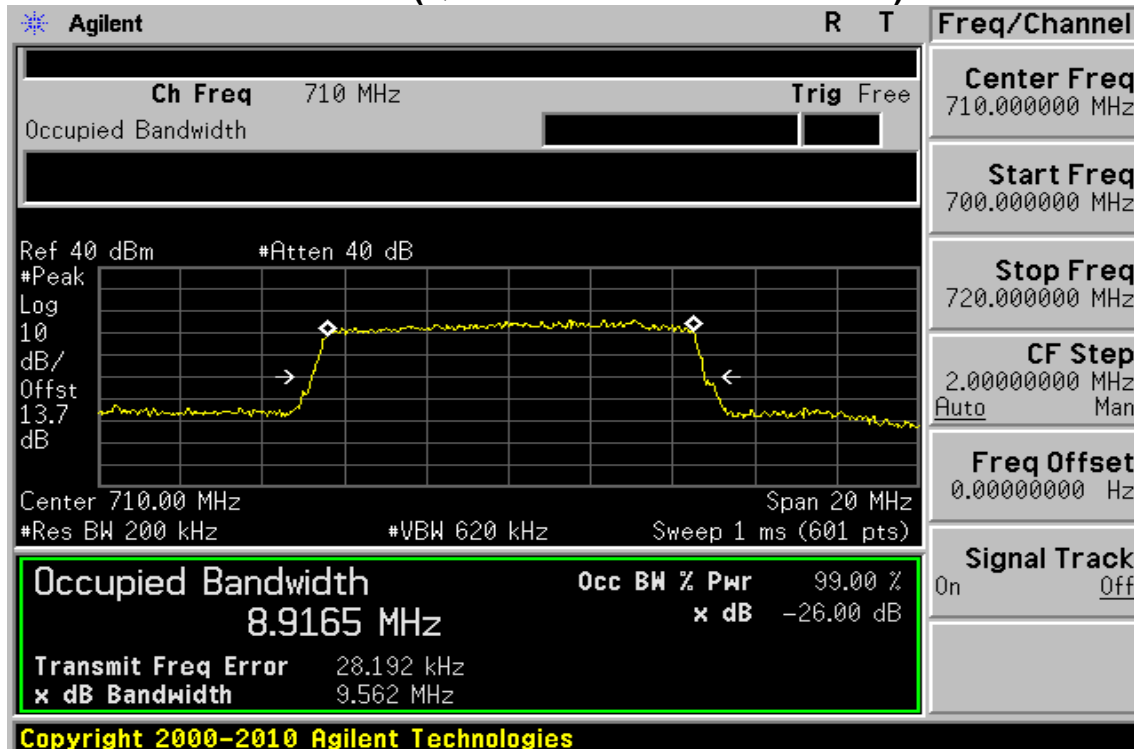
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10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Low



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



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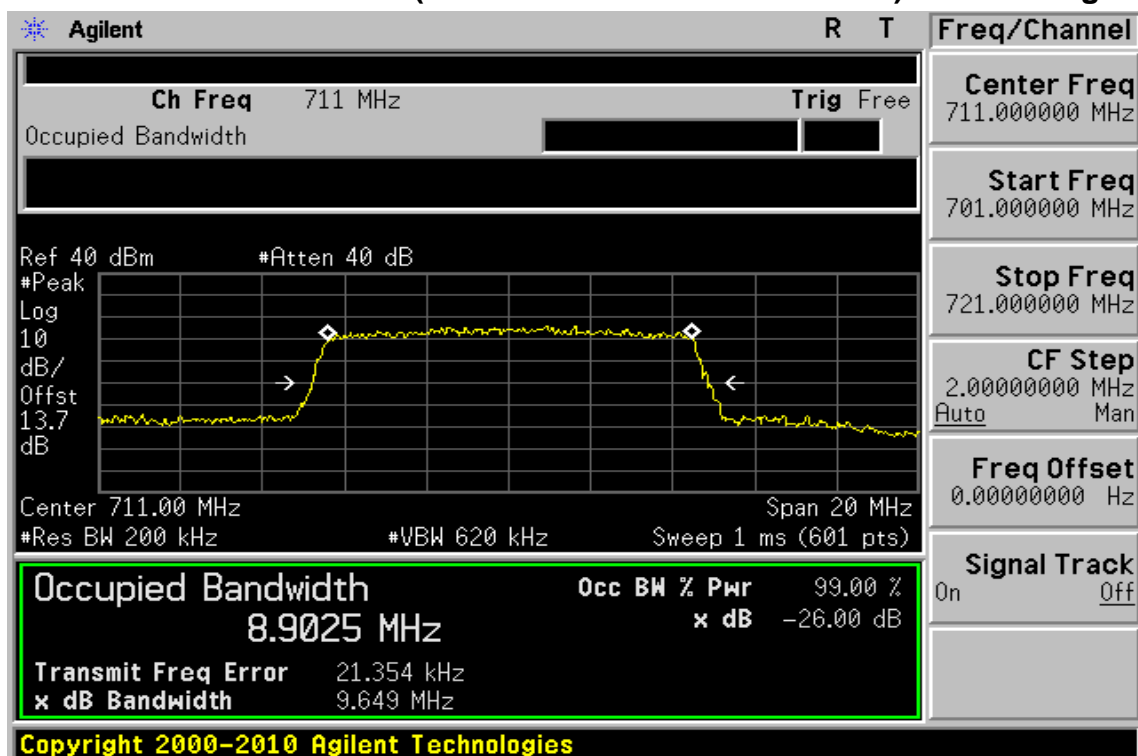
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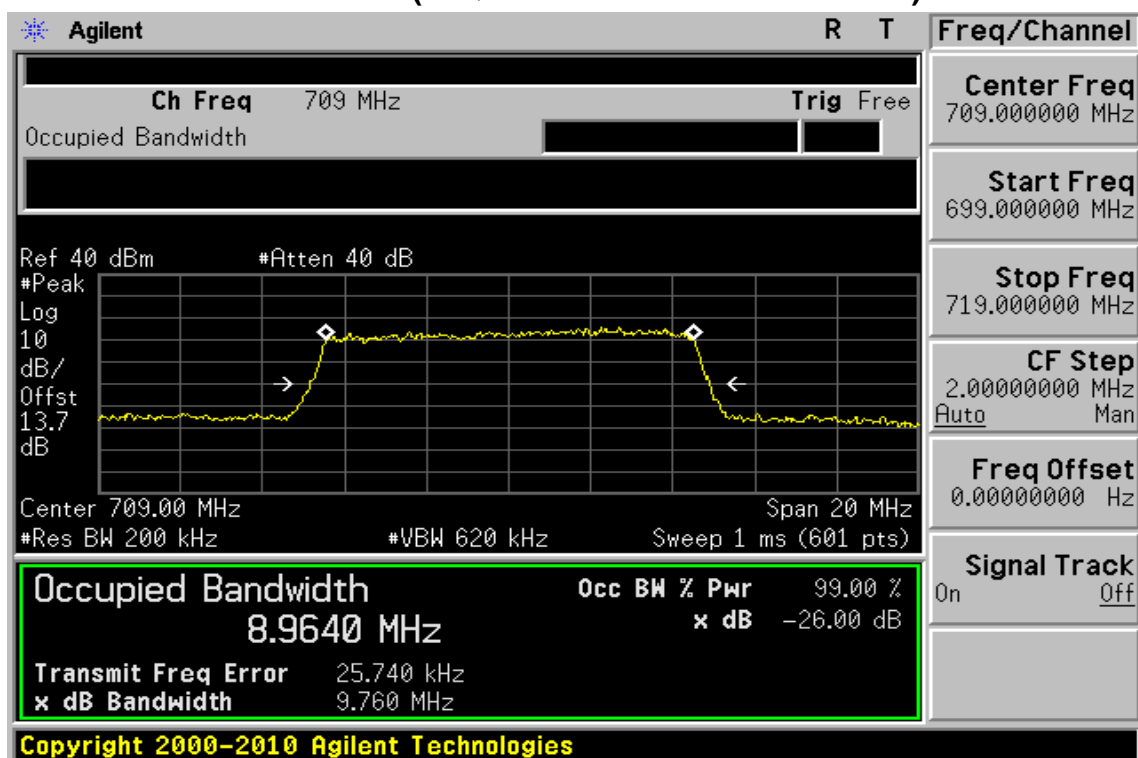
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10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel High



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



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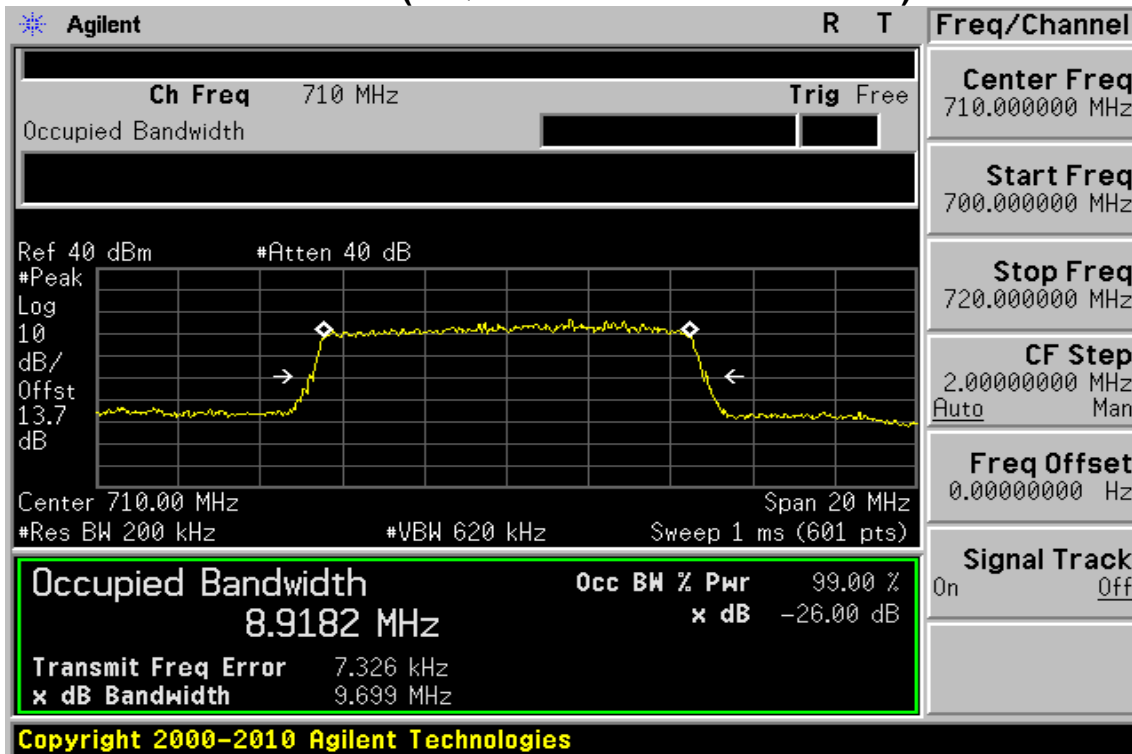
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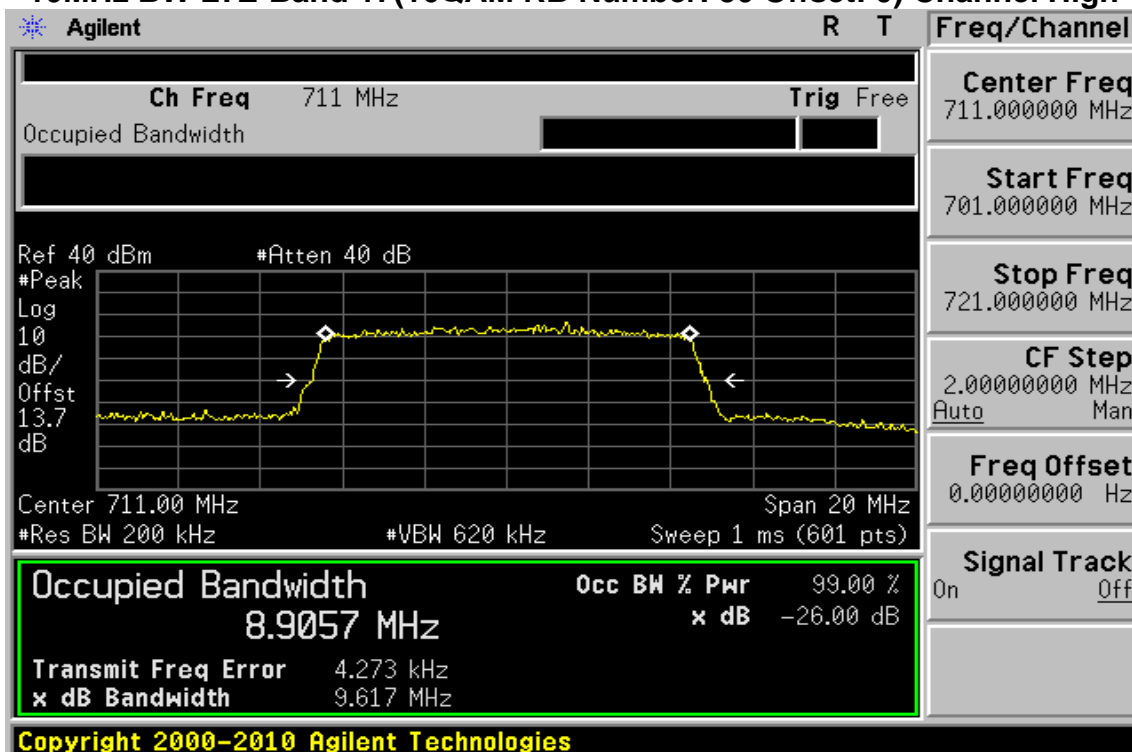
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10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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