ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	**Mobile Phone**
Brand Name:	**Sony**
Type No.:	**PM-0854-BV**
Model Difference:	**N/A**
FCC ID:	**PY7-PM0854**
Report No.:	**ER/2014/B0064**
Issue Date:	**Jan. 09, 2015**
FCC Rule Part:	**2 , 22H & 24E & 27C & L**
Prepared for:	**Sony Mobile Communications AB Nya Vattentornet 22188 Lund/Sweden**
Prepared by:	**SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803**

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VERIFICATION OF COMPLIANCE

Applicant:	Sony Mobile Communications AB Nya Vattentornet 22188 Lund/Sweden
Product Name:	Mobile Phone
Brand Name:	Sony
Type No.:	PM-0854-BV
Model Difference:	N/A
FCC ID:	PY7-PM0854
File Number:	ER/2014/B0064
Date of test:	Nov. 06, 2014 ~ Nov. 28, 2014
Date of EUT Received:	Nov. 06, 2014

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E, PART 27 subpart C.

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

Test By:	Marcus Tseng	***Date:***	Jan. 09, 2015
	Marcus Tseng / Engineer		
Prepared By:	Violetta Tang	***Date:***	Jan. 09, 2015
	Violetta Tang / Clerk		
Approved By:	Jim Chang	***Date:***	Jan. 09, 2015
	Jim Chang / Supervisor		

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Revision History

Report Number	Revision	Description	Issue Date
ER/2014/B0064	Rev.00	Initial creation of document	Dec. 11, 2014
ER/2014/B0064	Rev.01	Updated HW, SW, and internal photo	Jan. 09, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Type No.:	PM-0854-BV	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: AI-0700, Length: 100 cm	
Simple Hands-Free (SHF-White):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
BT PHF:	Model No.: SBH20, Supplier: Sony Type No.: RD-0010 coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA, Type No.: AG-0503)	
Hardware Version:	A	
Software Version:	25.0.A.0.33	
Power Supply:	3.8Vdc	
	Battery:	Model No.: LIS1574ERPC, Supplier: Sony Type No.: N/A
	Adapter:	Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US

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Bluetooth_BR+EDR:

Bluetooth Version:	V4.1 dual mode + HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	5.38dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: 2.52dBi

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.1 dual mode + HS
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	-1.49dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: 2.52dBi

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 18.87dBm g: 22.66dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 21.09dBm	OFDM
11n	HT40 2422-2452	7	HT40: 22.22dBm	OFDM
Antenna Designation:		PIFA Antenna, Gain: 2.52dBi		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 –135Mbps		

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power	Modulation Technology
11a	5150~5250	4	13.96dBm	OFDM
	5250~5350	4	13.99dBm	
	5470~5725	8	13.96dBm	
	5725-5850	5	13.79dBm	
11n	HT20 5150~5250	4	HT20: 12.99dBm	OFDM
	HT20 5250~5350	4	HT20: 12.95dBm	
	HT20 5470~5725	8	HT20: 12.99dBm	
	HT20 5725-5850	5	HT20: 12.79dBm	
11n	HT40 5150~5250	2	HT40: 11.95dBm	OFDM
	HT40 5250~5350	2	HT40: 11.93dBm	
	HT40 5470~5725	3	HT40: 11.96dBm	
	HT40 5725-5850	2	HT40: 11.98dBm	
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.54dBi (5150MHz-5250MHz) 5GHz Gain: -0.89dBi (5250MHz-5350MHz) 5GHz Gain: -0.34dBi (5470MHz-5725MHz) 5GHz Gain: -0.19dBi (5725MHz-5850MHz)			
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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GSM / WCDMA/ LTE:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	1.4MHz BW LTE-Band 2	1850MHz– 1909.3MHz	23dBm
	3MHz BW LTE-Band 2	1851.5MHz – 1908.5MHz	23dBm
	5MHz BW LTE-Band 2	1852.5MHz – 1907.5MHz	23dBm
	10MHz BW LTE-Band 2	1855MHz – 1905MHz	23dBm
	15MHz BW LTE-Band 2	1857.5MHz – 1902.5MHz	23dBm
	20MHz BW LTE-Band 2	1860MHz – 1900MHz	23dBm
	1.4MHz BW LTE-Band 4	1710.7MHz– 1754.3MHz	23dBm
	3MHz BW LTE-Band 4	1711.5MHz – 1753.5MHz	23dBm
	5MHz BW LTE-Band 4	1712.5MHz – 1752.5MHz	23dBm
	10MHz BW LTE-Band 4	1715MHz – 1750MHz	23dBm
	15MHz BW LTE-Band 4	1717.5MHz – 1747.5MHz	23dBm
	20MHz BW LTE-Band 4	1720MHz – 1745MHz	23dBm
	5MHz BW LTE-Band 5	2502.5MHz – 2567.5MHz	23dBm
	10MHz BW LTE-Band 5	2505.0MHz – 2565.0MHz	23dBm
	15MHz BW LTE-Band 5	2507.5MHz – 2562.5MHz	23dBm
	20MHz BW LTE-Band 5	2510.0MHz – 2560MHz	23dBm

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Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	5MHz BW LTE-Band 7	2502.5MHz – 2567.5MHz	23dBm
	10MHz BW LTE-Band 7	2505.0MHz – 2565.0MHz	23dBm
	15MHz BW LTE-Band 7	2507.5MHz – 2562.5MHz	23dBm
	20MHz BW LTE-Band 7	2510.0MHz – 2560MHz	23dBm
Type of Emission:	GSM 850: 252KGXW, GSM 1900: 251KGXW GPRS 850: 248KGXW, GPRS 1900: 253KGXW EDGE 850: 259KG7W, EDGE 1900: 253KG7W WCDMA Band II: 4M21F9W, WCDMA Band IV: 4M22F9W, WCDMA Band V: 4M21F9W HSDPA Band II: 4M21F9W, HSDPA Band IV: 4M21F9W, HSDPA Band V: 4M21F9W HSUPA Band II: 4M21F9W, HSUPA Band IV: 4M22F9W, HSUPA Band V: 4M22F9W 1.4MHz BW LTE-Band 2 QPSK:1M10G7D 1.4MHz BW LTE-Band 2 16QAM: 1M10D7W 3MHz BW LTE-Band 2 QPSK: 2M71G7D 3MHz BW LTE-Band 2 16QAM: 2M71D7W 5MHz BW LTE-Band 2 QPSK: 4M53G7D 5MHz BW LTE-Band 2 16QAM: 4M53D7W 10MHz BW LTE-Band 2 QPSK: 9M01G7D 10MHz BW LTE-Band 2 16QAM: 9M02D7W 15MHz BW LTE-Band 2 QPSK: 13M52G7D 15MHz BW LTE-Band 2 16QAM: 13M49D7W 20MHz BW LTE-Band 2 QPSK: 18M01G7D 20MHz BW LTE-Band 2 16QAM: 17M98D7W 1.4MHz BW LTE-Band 4 QPSK:1M09G7D 1.4MHz BW LTE-Band 4 16QAM: 1M10D7W 3MHz BW LTE-Band 4 QPSK: 2M71G7D 3MHz BW LTE-Band 4 16QAM: 2M71D7W 5MHz BW LTE-Band 4 QPSK: 4M51G7D 5MHz BW LTE-Band 4 16QAM: 4M53D7W 10MHz BW LTE-Band 4 QPSK: 9M00G7D 10MHz BW LTE-Band 4 16QAM: 8M97D7W 15MHz BW LTE-Band 4 QPSK: 13M50G7D 15MHz BW LTE-Band 4 16QAM: 13M50G7D 20MHz BW LTE-Band 4 QPSK: 17M99D7W 20MHz BW LTE-Band 4 16QAM: 17M98D7W		

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Type of Emission:	5MHz BW LTE-Band 5 QPSK: 1M10G7D 5MHz BW LTE-Band 5 16QAM: 1M10D7W 10MHz BW LTE-Band 5 QPSK: 2M71G7D 10MHz BW LTE-Band 5 16QAM: 2M71D7W 15MHz BW LTE-Band 5 QPSK: 4M53G7D 15MHz BW LTE-Band 5 16QAM: 4M54D7W 20MHz BW LTE-Band 5 QPSK: 9M02G7D 20MHz BW LTE-Band 5 16QAM: 9M05D7W 5MHz BW LTE-Band 7 QPSK: 4M54G7D 5MHz BW LTE-Band 7 16QAM: 4M53D7W 10MHz BW LTE-Band 7 QPSK: 8M98G7D 10MHz BW LTE-Band 7 16QAM: 8M99D7W 15MHz BW LTE-Band 7 QPSK: 13M49G7D 15MHz BW LTE-Band 7 16QAM: 13M46D7W 20MHz BW LTE-Band 7 QPSK: 17M94G7D 20MHz BW LTE-Band 7 16QAM: 18M01D7W
IMEI:	00440245-354865-7

This test report applies for 850 /1900 GSM/GPRS/EDGE, WCDMA / HSDPA / HSUPA Band II/IV /V and LTE Band 2, Band 4, Band 5 and Band 7. The spread of uplink in HSPA+ supports only up to 42.2 Mbps.

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.8	358
GSM 1900	3.8	346
GPRS 850	3.8	339
GPRS 1900	3.8	279
EDGE 850	3.8	208
EDGE 1900	3.8	222
WCDMA B2	3.8	690
WCDMA B4	3.8	642
WCDMA B5	3.8	574
HSUPA B2	3.8	622
HSUPA B4	3.8	577
HSUPA B5	3.8	512
HSDPA B2	3.8	602
HSDPA B4	3.8	574
HSDPA B5	3.8	511

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LTE Band 2_1.4M QPSK	3.8	829
LTE Band 2_1.4M 16QAM	3.8	732
LTE Band 2_3M QPSK	3.8	826
LTE Band 2_3M 16QAM	3.8	738
LTE Band 2_5M QPSK	3.8	833
LTE Band 2_5M 16QAM	3.8	751
LTE Band 2_10M QPSK	3.8	829
LTE Band 2_10M 16QAM	3.8	742
LTE Band 2_15M QPSK	3.8	836
LTE Band 2_15M 16QAM	3.8	755
LTE Band 2_20M QPSK	3.8	840
LTE Band 2_20M 16QAM	3.8	761

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LTE Band 4_1.4M QPSK	3.8	822
LTE Band 4_1.4M 16QAM	3.8	759
LTE Band 4_3M QPSK	3.8	819
LTE Band 4_3M 16QAM	3.8	744
LTE Band 4_5M QPSK	3.8	825
LTE Band 4_5M 16QAM	3.8	745
LTE Band 4_10M QPSK	3.8	815
LTE Band 4_10M 16QAM	3.8	732
LTE Band 4_15M QPSK	3.8	811
LTE Band 4_15M 16QAM	3.8	744
LTE Band 4_20M QPSK	3.8	831
LTE Band 4_20M 16QAM	3.8	756

LTE Band 5_1.4M QPSK	3.8	722
LTE Band 5_1.4M 16QAM	3.8	675
LTE Band 5_3M QPSK	3.8	729
LTE Band 5_3M 16QAM	3.8	670
LTE Band 5_5M QPSK	3.8	733
LTE Band 5_5M 16QAM	3.8	669
LTE Band 5_10M QPSK	3.8	795
LTE Band 5_10M 16QAM	3.8	741

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LTE Band 7_5M QPSK	3.8	727
LTE Band 7_5M 16QAM	3.8	689
LTE Band 7_10M QPSK	3.8	729
LTE Band 7_10M 16QAM	3.8	691
LTE Band 7_15M QPSK	3.8	723
LTE Band 7_15M 16QAM	3.8	688
LTE Band 7_20M QPSK	3.8	733
LTE Band 7_20M 16QAM	3.8	675

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7-PM0854** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part27 subpart C & subpart L of the FCC CFR 47 Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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

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

KDB971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, Average Power over the fundamental signal BW (EIRP/ERP) and Signal Bandwidth.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009 & ANSI C63.10:2009. FCC Registration Numbers are: 990257, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 455997.

All equipment is calibrated externally and traceable to SI (International System of Unit).

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 of ANSI C63.4:2009 & ANSI C63.10:2009.

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2.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	01/13/2014	01/12/2015
Power Sensor	Anritsu	MA2411B	917032	01/13/2014	01/12/2015
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Spectrum Analyzer	Agilent	E4440A	US41160416	03/08/2014	03/07/2015
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Temperature Chamber	TERCHY	MHG-120LF	911009	05/07/2014	05/06/2015
DC Block	Mini-Circuits	BLK-18-S+	1	02/27/2014	02/26/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	02/27/2014	02/26/2015
Splitter	Agilent	11636B	N/A	02/27/2014	02/26/2015
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/01/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2014	05/18/2015
Horn antenna	ETS.LINDGREN	3117	123991	01/20/2014	01/19/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	01/23/2014	01/22/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/24/2014	05/23/2015
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/03/2014	01/02/2015
Pre-Amplifier	Agilent	8449B	3008A00578	01/03/2014	01/02/2015
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/24/2014	01/23/2015
Attenuator	Mini-Circuit	BW-S10W2+	004	02/27/2014	02/26/2015
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/03/2014	01/02/2015
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/03/2014	01/02/2015
Filter 800-1000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1800-2000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1700-1800	Micro-Tronics	BRC15751	001	02/27/2014	02/26/2015
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/27/2014	02/26/2015
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/27/2014	02/26/2015
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

Note: N.C.R refers to Not Calibrated Required

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2.5. Configuration of Tested System

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

2G/3G

DC Power Supply — **EUT** — Spectrum Analyzer — CMU200

4G

DC Power Supply — **EUT** — Spectrum Analyzer — MT8820C

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

EUT — Adapter

Remote Side

CMU200 MT8820C

Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)§27.50(c)(10) §27.50(d)(2) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Voltage	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	24.74	ERP	0.298
GSM 1900 Band	26.15	EIRP	0.412
GPRS 850 Band	24.24	ERP	0.265
GPRS 1900 Band	25.75	EIRP	0.376
EDGE 850 Band	23.02	ERP	0.200
EDGE 1900 Band	25.41	EIRP	0.348
WCDMA Band II	22.03	EIRP	0.160
WCDMA Band IV	24.43	EIRP	0.277
WCDMA Band V	17.13	ERP	0.052
HSDPA Band II	21.72	EIRP	0.149
HSDPA Band IV	24.11	EIRP	0.258
HSDPA Band V	16.65	ERP	0.046
HSUPA Band II	21.51	EIRP	0.142
HSUPA Band IV	23.90	EIRP	0.245
HSUPA Band V	15.74	ERP	0.037

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	dBm		W
LTE Band 2/1.4MMz /QPSK RB 1 Offset 0	24.94	EIRP	0.312
LTE Band 2/1.4MMz /QPSK RB 1 Offset 5	24.87	EIRP	0.307
LTE Band 2/1.4MMz /16QAM RB 1 Offset 0	25.02	EIRP	0.318
LTE Band 2/1.4MMz /16QAM RB 1 Offset 5	25.09	EIRP	0.323
LTE Band 2/3MMz /QPSK RB 1 Offset 0	23.87	EIRP	0.244
LTE Band 2/3MMz /QPSK RB 1 Offset 14	23.69	EIRP	0.234
LTE Band 2/3MMz /16QAM RB 1 Offset 0	24.45	EIRP	0.279
LTE Band 2/3MMz /16QAM RB 1 Offset 14	24.28	EIRP	0.268
LTE Band 2/5MMz /QPSK RB 1 Offset 0	23.76	EIRP	0.238
LTE Band 2/5MMz /QPSK RB 1 Offset 24	23.42	EIRP	0.220
LTE Band 2/5MMz /16QAM RB 1 Offset 0	24.43	EIRP	0.277
LTE Band 2/5MMz /16QAM RB 1 Offset 24	24.09	EIRP	0.256
LTE Band 2/10MMz /QPSK RB 1 Offset 0	23.49	EIRP	0.223
LTE Band 2/10MMz /QPSK RB 1 Offset 49	22.61	EIRP	0.182
LTE Band 2/10MMz /16QAM RB 1 Offset 0	24.15	EIRP	0.260
LTE Band 2/10MMz /16QAM RB 1 Offset 49	23.35	EIRP	0.216
LTE Band 2/15MMz /QPSK RB 1 Offset 0	23.24	EIRP	0.211
LTE Band 2/15MMz /QPSK RB 1 Offset 74	22.61	EIRP	0.182
LTE Band 2/15MMz /16QAM RB 1 Offset 0	23.91	EIRP	0.246
LTE Band 2/15MMz /16QAM RB 1 Offset 74	23.21	EIRP	0.209
LTE Band 2/20MMz /QPSK RB 1 Offset 0	23.22	EIRP	0.210
LTE Band 2/20MMz /QPSK RB 1 Offset 99	23.39	EIRP	0.218
LTE Band 2/20MMz /16QAM RB 1 Offset 0	23.89	EIRP	0.245
LTE Band 2/20MMz /16QAM RB 1 Offset 99	24.02	EIRP	0.252

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	dBm		W
LTE Band 4/1.4MMz /QPSK RB 1 Offset 0	24.42	EIRP	0.277
LTE Band 4/1.4MMz /QPSK RB 1 Offset 5	24.25	EIRP	0.266
LTE Band 4/1.4MMz /16QAM RB 1 Offset 0	24.45	EIRP	0.279
LTE Band 4/1.4MMz /16QAM RB 1 Offset 5	24.59	EIRP	0.288
LTE Band 4/3MMz /QPSK RB 1 Offset 0	24.56	EIRP	0.286
LTE Band 4/3MMz /QPSK RB 1 Offset 14	23.81	EIRP	0.240
LTE Band 4/3MMz /16QAM RB 1 Offset 0	24.79	EIRP	0.301
LTE Band 4/3MMz /16QAM RB 1 Offset 14	24.14	EIRP	0.259
LTE Band 4/5MMz /QPSK RB 1 Offset 0	23.58	EIRP	0.228
LTE Band 4/5MMz /QPSK RB 1 Offset 24	22.72	EIRP	0.187
LTE Band 4/5MMz /16QAM RB 1 Offset 0	23.94	EIRP	0.248
LTE Band 4/5MMz /16QAM RB 1 Offset 24	23.18	EIRP	0.208
LTE Band 4/10MMz /QPSK RB 1 Offset 0	23.62	EIRP	0.230
LTE Band 4/10MMz /QPSK RB 1 Offset 49	22.82	EIRP	0.191
LTE Band 4/10MMz /16QAM RB 1 Offset 0	24.34	EIRP	0.272
LTE Band 4/10MMz /16QAM RB 1 Offset 49	23.36	EIRP	0.217
LTE Band 4/15MMz /QPSK RB 1 Offset 0	23.75	EIRP	0.237
LTE Band 4/15MMz /QPSK RB 1 Offset 74	22.95	EIRP	0.197
LTE Band 4/15MMz /16QAM RB 1 Offset 0	24.14	EIRP	0.259
LTE Band 4/15MMz /16QAM RB 1 Offset 74	23.38	EIRP	0.218
LTE Band 4/20MMz /QPSK RB 1 Offset 0	23.61	EIRP	0.230
LTE Band 4/20MMz /QPSK RB 1 Offset 99	23.00	EIRP	0.200
LTE Band 4/20MMz /16QAM RB 1 Offset 0	24.09	EIRP	0.256
LTE Band 4/20MMz /16QAM RB 1 Offset 99	23.46	EIRP	0.222

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	dBm		W
LTE Band 5/1.4MMz /QPSK RB 1 Offset 0	22.17	ERP	0.165
LTE Band 5/1.4MMz /QPSK RB 1 Offset 5	22.22	ERP	0.167
LTE Band 5/1.4MMz /16QAM RB 1 Offset 0	23.35	ERP	0.216
LTE Band 5/1.4MMz /16QAM RB 1 Offset 5	23.45	ERP	0.221
LTE Band 5/3MMz /QPSK RB 1 Offset 0	22.41	ERP	0.174
LTE Band 5/3MMz /QPSK RB 1 Offset 14	22.64	ERP	0.184
LTE Band 5/3MMz /16QAM RB 1 Offset 0	23.14	ERP	0.206
LTE Band 5/3MMz /16QAM RB 1 Offset 14	23.53	ERP	0.225
LTE Band 5/5MMz /QPSK RB 1 Offset 0	22.65	ERP	0.184
LTE Band 5/5MMz /QPSK RB 1 Offset 24	22.71	ERP	0.187
LTE Band 5/5MMz /16QAM RB 1 Offset 0	23.33	ERP	0.215
LTE Band 5/5MMz /16QAM RB 1 Offset 24	23.43	ERP	0.220
LTE Band 5/10MMz /QPSK RB 1 Offset 0	22.47	ERP	0.177
LTE Band 5/10MMz /QPSK RB 1 Offset 49	23.31	ERP	0.214
LTE Band 5/10MMz /16QAM RB 1 Offset 0	23.55	ERP	0.226
LTE Band 5/10MMz /16QAM RB 1 Offset 49	23.39	ERP	0.218

	dBm		W
LTE Band 7/5MMz /QPSK RB 1 Offset 0	21.83	EIRP	0.152
LTE Band 7/5MMz /QPSK RB 1 Offset 24	22.47	EIRP	0.177
LTE Band 7/5MMz /16QAM RB 1 Offset 0	22.07	EIRP	0.161
LTE Band 7/5MMz /16QAM RB 1 Offset 24	23.08	EIRP	0.203
LTE Band 7/10MMz /QPSK RB 1 Offset 0	21.64	EIRP	0.146
LTE Band 7/10MMz /QPSK RB 1 Offset 49	21.78	EIRP	0.151
LTE Band 7/10MMz /16QAM RB 1 Offset 0	22.57	EIRP	0.181
LTE Band 7/10MMz /16QAM RB 1 Offset 49	22.52	EIRP	0.179
LTE Band 7/15MMz /QPSK RB 1 Offset 0	22.47	EIRP	0.177
LTE Band 7/15MMz /QPSK RB 1 Offset 74	19.83	EIRP	0.096
LTE Band 7/15MMz /16QAM RB 1 Offset 0	23.10	EIRP	0.204
LTE Band 7/15MMz /16QAM RB 1 Offset 74	20.52	EIRP	0.113
LTE Band 7/20MMz /QPSK RB 1 Offset 0	22.06	EIRP	0.161
LTE Band 7/20MMz /QPSK RB 1 Offset 99	19.44	EIRP	0.088
LTE Band 7/20MMz /16QAM RB 1 Offset 0	22.79	EIRP	0.190
LTE Band 7/20MMz /16QAM RB 1 Offset 99	20.20	EIRP	0.105

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT was staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The list of channel selected to conduct the measurements

GSM/GPRS/EDGE 850:

Channel Low: AFRCN 128 at 824.2MHz, Channel Mid: AFRCN 190 at 836.6MHz, Channel High: AFRCN 251 at 848.8MHz.

GSM/GPRS/EDGE 1900:

Channel Low: AFRCN 512 at 1850.2MHz, Channel Mid: AFRCN 661 at 1880.0MHz, Channel High AFRCN 810 at 1909.8MHz

WCDMA/HSPA BII:

Channel Low: UAFRCN 9262 at 1852.4MHz, Channel Mid: UAFRCN 9400 at 1880.0MHz, Channel High: UAFRCN 9538 at 1907.6MHz.

WCDMA/HSPA BIV:

Channel Low: UAFRCN 1312 at 1712.4MHz, Channel Mid: UAFRCN 1413 at 1732.6MHz, Channel High: UAFRCN 1513 at 1752.6MHz.

WCDMA/HSPA BV:

Channel Low: UAFRCN 4132 at 826.4MHz, Channel Mid: UAFRCN 4183 at 836.6MHz, Channel High: UAFRCN 4233 at 846.6MHz.

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LTE B2:

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [Mhz]
Low	1.4	18607	1850.7
	3	18615	1851.5
	5	18625	1852.5
	10	18650	1855
	15	18675	1857.5
	20	18700	1860
Middle	1.4/3/5/10 15/20	18900	1880
High	1.4	19193	1909.3
	3	19185	1908.5
	5	19175	1907.5
	10	19150	1905
	15	19125	1902.5
	20	19100	1900

LTE B4

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	1.4	19957	1710.7
	3	19965	1711.5
	5	19975	1712.5
	10	20000	1715
	15	20025	1717.5
	20	20050	1720
Middle	1.4/3/5/10 15/20	20175	1732.5
High	1.4	20393	1754.3
	3	20385	1753.5
	5	20375	1752.5
	10	20350	1750
	15	20325	1747.5
	20	20300	1745

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LTE B5:

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [Mhz]
Low	1.4	20407	824.7
	3	20415	825.5
	5	20425	826.5
	10	20450	829
Middle	1.4/3/5/10	20525	836.5
High	1.4	20643	848.3
	3	20635	847.5
	5	20625	846.5
	10	20600	844

LTE B7:

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	5	20775	2502.5
	10	20800	2505
	15	20825	2507.5
	20	20850	2510
Middle	5/10 15/20	21100	2535
High	5	21425	2567.5
	10	21400	2565
	15	21375	2562.5
	20	21350	2560

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE, WCDMA/HSPA Band II / IV/ V, and LTE Band 2, Band 4, Band 5 and Band 7 with power adaptor. The worst-case of H position for GSM 850/1900,WCDMA/HSPA Band II/IV/V and LTE Band 5, E1 position for and LTE Band 2, Band 4 and Band 7 were reported.

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The evaluation of Test Mode as configured in UE presented on the Test Report:

GSM/GPRS/WCDMA/HSPA:

Radiated Spurious Emission

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

GSM, HSPA is the worst-case found in the pre-scanned measurement, and only data that yields the worst case is revealed on the test report.

LTE:

Radiated Spurious Emission

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

Out of Band Emission at Antenna Terminal, Bandedge and Mask

In comparison among all Out of Band Emission at Antenna Terminal and Bandedge in the variety of combination on LTE Band 2/4/5 & 7, respectively, It's revealed to generate the highest emission while RB size = 1 with offset 0 (CSE) and RB size = 1with offset of both extremity for all supported transmission bandwidth of all supported frequency band (Bandedge). RB size = 1with offset of both extremity for all supported transmission bandwidth and RB number = full of all supported frequency band (Mask) Be aware of that only data measurement that yields the worst measurement with supported modulation scheme (QPSK, 16QAM), QPSK – the worst, is shown on the corresponding section.

Peak to Average Ratio

For Peak to Average Ratio test, all combination (RB arrangement with different modulation scheme) has been evaluated, the data with the following configuration: RB number = full and modulation = 16QAM is revealed to generate the worst case result.

Only data that generates the worst-case result is shown on the report.

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.42 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 123.36 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.55 dB
Peak to Average Ratio	+/- 1.55 dB
Frequency Stability vs. Temperature	+/- 123.36 Hz
Frequency Stability vs. Voltage	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, 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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6. RF POWER OUTPUT MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046.

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

Sub-test in table C.10.1.4	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

Maximum Output Powers for HSUPA

Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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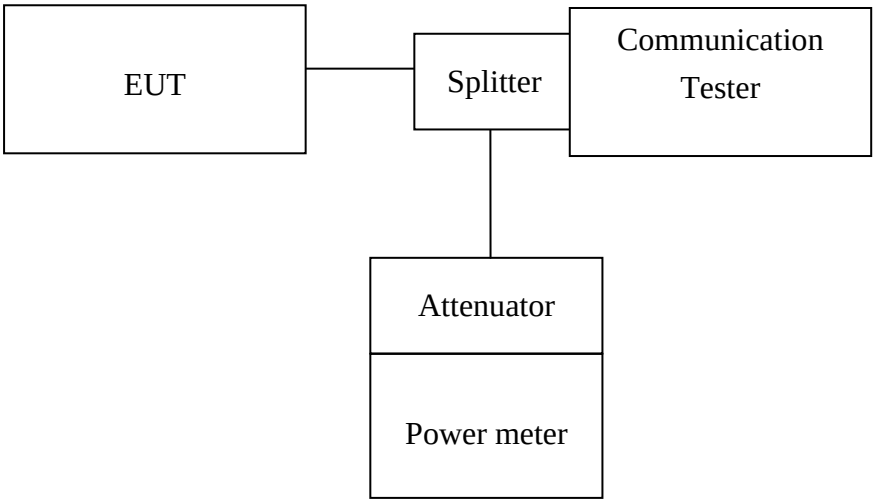
6.2. Test Set-up:



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

Necessary Communication complying with 24.232 (c) and 27.5(d)(4)

Set MT8852C (base-station simulator) MS Signal with packet data submenu; SLOT Configuration

Set appropriate level to verify if or not power on mobile station's link with simulator still exists.

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5. Measurement Result:

6.5.1. RF Conducted Output Power

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

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 850	824.2	128	32.60	32.40
	836.6	190	32.70	32.50
	848.8	251	32.70	32.50

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 1900	1850.2	512	29.70	29.50
	1880.0	661	29.60	29.50
	1909.8	810	29.90	29.70

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.50	32.40	29.20	29.10
	836.6	190	32.60	32.50	29.40	29.20
	848.8	251	32.70	32.50	29.60	29.40

EUT Mode	Frequency (MHz)	CH	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	27.80	27.60	26.90	26.80
	836.6	190	27.80	27.70	27.10	26.90
	848.8	251	28.10	27.90	27.30	27.20

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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)
GPRS 1900	1850.2	512	29.70	29.50	26.30	26.10
	1880.0	661	29.60	29.50	26.20	26.10
	1909.8	810	29.90	29.70	26.50	26.30

EUT Mode	Frequency (MHz)	CH	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 1900	1850.2	512	24.50	24.40	23.90	23.80
	1880.0	661	24.40	24.30	23.80	23.70
	1909.8	810	24.70	24.50	24.10	24.00

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)
EDGE 850	824.2	128	30.60	27.50	27.70	24.50
	836.6	190	30.10	27.60	27.80	24.70
	848.8	251	30.80	27.70	28.00	24.90

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	26.30	23.10	27.30	24.30
	836.6	190	26.20	23.20	27.50	24.40
	848.8	251	26.40	23.30	27.70	24.60

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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 (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	29.90	26.90	27.20	24.00
	1880.0	661	29.70	26.80	27.00	23.80
	1909.8	810	29.90	27.00	27.30	24.20

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
EDGE 1900	1850.2	512	26.30	22.90	25.20	21.90
	1880.0	661	26.00	22.80	25.00	21.80
	1909.8	810	26.40	23.10	25.20	22.10

Cable loss offset Low Band: 0.5dB

Cable loss offset High Band: 0.85dB

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6.5.1.2.: WCDMA mode

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

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	26.33	23.40
	1880.0	9400	26.48	23.36
	1907.6	9538	26.54	23.61

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band IV	1712.4	1312	26.92	23.88
	1732.6	1412	27.17	23.94
	1752.6	1513	27.03	23.87

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	26.62	23.43
	836.6	4183	26.67	23.40
	846.6	4233	26.62	23.29

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band II	1852.4	9262	25.88	22.34
	1880.0	9400	25.89	22.31
	1907.6	9538	26.17	22.60

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band IV	1712.4	1312	26.43	22.86
	1732.6	1412	26.63	22.88
	1752.6	1513	26.48	22.81

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band V	826.4	4132	25.88	22.34
	836.6	4183	26.03	22.29
	846.6	4233	25.85	22.11

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	25.66	22.42
	1880.0	9400	25.97	22.33
	1907.6	9538	26.13	22.60

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band IV	1712.4	1312	26.46	22.88
	1732.6	1412	26.63	22.88
	1752.6	1513	26.47	22.87

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band V	826.4	4132	25.87	22.33
	836.6	4183	26.06	22.30
	846.6	4233	25.77	22.04

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

Cable loss offset Low Band: 0.5dB

Cable loss offset High Band: 0.85dB

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6.5.1.3: MPR Table

LTE Band 2_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	18607	1850.7	1	0	23.27
				1	5	23.31
				3	2	23.32
				6	0	22.36
		18900	1880.0	1	0	23.29
				1	5	23.30
				3	2	23.36
				6	0	22.34
		19193	1909.3	1	0	23.47
				1	5	23.42
				3	3	**23.55**
				6	0	22.70
1.4	16 QAM	18607	1850.7	1	0	22.47
				1	5	22.43
				3	2	22.27
				6	0	21.54
		18900	1880.0	1	0	22.55
				1	5	22.48
				3	3	22.37
				6	0	21.42
		19193	1909.3	1	0	22.60
				1	5	22.56
				3	2	22.50
				6	0	21.62

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LTE Band 2_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
3	QPSK	18615	1851.5	1	0	23.28
				1	14	23.25
				8	4	22.33
				15	0	22.37
		18900	1880.0	1	0	23.29
				1	14	23.17
				8	4	22.38
				15	0	22.39
		19185	1908.5	1	0	**23.57**
				1	14	23.51
				8	4	22.61
				15	0	22.62
3	16 QAM	18615	1851.5	1	0	22.40
				1	14	22.72
				8	4	21.34
				15	0	21.42
		18900	1880.0	1	0	22.85
				1	14	22.78
				8	4	21.42
				15	0	21.47
		19185	1908.5	1	0	23.03
				1	14	22.81
				8	4	21.62
				15	0	21.71

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LTE Band 2_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	18625	1852.5	1	0	23.31
				1	24	23.18
				12	6	22.4
				25	0	22.35
		18900	1880.0	1	0	23.30
				1	24	23.22
				12	6	22.43
				25	0	22.35
		19175	1907.5	1	0	**23.59**
				1	24	23.48
				12	6	22.70
				25	0	22.65
5	16 QAM	18625	1852.5	1	0	22.34
				1	24	22.28
				12	6	21.45
				25	0	21.37
		18900	1880.0	1	0	22.43
				1	24	22.32
				12	6	21.47
				25	0	21.39
		19175	1907.5	1	0	22.66
				1	24	22.46
				12	6	21.74
				25	0	21.63

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LTE Band 2_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	18650	1855.0	1	0	23.30
				1	49	23.22
				25	12	22.34
				50	0	22.37
		18900	1880.0	1	0	23.33
				1	49	23.23
				25	12	22.40
				50	0	22.38
		19150	1905.0	1	0	**23.54**
				1	49	23.46
				25	12	22.67
				50	0	22.70
10	16 QAM	18650	1855.0	1	0	22.82
				1	49	22.76
				25	12	21.41
				50	0	21.38
		18900	1880.0	1	0	22.92
				1	49	22.76
				25	12	21.35
				50	0	21.41
		19150	1905.0	1	0	22.64
				1	49	22.61
				25	12	21.64
				50	0	21.69

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LTE Band 2_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	18675	1857.5	1	0	23.44
				1	74	23.25
				36	19	22.39
				75	0	22.32
		18900	1880.0	1	0	23.39
				1	74	23.32
				36	19	22.42
				75	0	22.37
		19125	1902.5	1	0	23.56
				1	74	**23.58**
				36	19	22.68
				75	0	22.62
15	16 QAM	18675	1857.5	1	0	22.90
				1	74	22.85
				36	19	21.49
				75	0	21.40
		18900	1880.0	1	0	22.98
				1	74	22.81
				36	19	21.52
				75	0	21.51
		19125	1902.5	1	0	22.91
				1	74	23.00
				36	19	21.75
				75	0	21.68

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LTE Band 2_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
20	QPSK	18700	1860.0	1	0	23.42
				1	99	23.27
				50	25	22.33
				100	0	22.29
		18900	1880.0	1	0	23.29
				1	99	23.24
				50	25	22.41
				100	0	22.40
		19100	1900.0	1	0	23.39
				1	99	**23.51**
				50	25	22.57
				100	0	22.58
20	16 QAM	18700	1860.0	1	0	22.78
				1	99	22.72
				50	25	21.33
				100	0	21.35
		18900	1880.0	1	0	22.68
				1	99	22.54
				50	25	21.47
				100	0	21.49
		19100	1900.0	1	0	22.65
				1	99	22.77
				50	25	21.67
				100	0	21.68

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LTE Band 4_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	19957	1710.7	1	0	**23.87**
				1	5	23.81
				3	2	23.85
				6	0	22.89
		20175	1732.5	1	0	23.85
				1	5	23.82
				3	2	23.82
				6	0	22.93
		20393	1754.3	1	0	23.67
				1	5	23.68
				3	3	23.80
				6	0	22.84
1.4	16 QAM	19957	1710.7	1	0	23.35
				1	5	23.33
				3	2	22.75
				6	0	21.96
		20175	1732.5	1	0	23.36
				1	5	23.34
				3	3	22.76
				6	0	21.99
		20393	1754.3	1	0	23.12
				1	5	23.09
				3	2	22.80
				6	0	22.04

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LTE Band 4_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
3	QPSK	19965	1711.5	1	0	**23.82**
				1	14	23.63
				8	4	22.91
				15	0	22.93
		20175	1732.5	1	0	23.68
				1	14	23.65
				8	4	22.92
				15	0	22.95
		20385	1753.5	1	0	23.57
				1	14	23.56
				8	4	22.77
				15	0	22.84
3	16 QAM	19965	1711.5	1	0	22.99
				1	14	22.88
				8	4	21.95
				15	0	21.92
		20175	1732.5	1	0	22.98
				1	14	22.95
				8	4	21.99
				15	0	21.99
		20385	1753.5	1	0	22.86
				1	14	22.77
				8	4	21.85
				15	0	21.88

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LTE Band 4_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	19957	1712.5	1	0	23.79
				1	24	23.77
				12	6	22.95
				25	0	22.9
		20175	1732.5	1	0	**23.91**
				1	24	23.80
				12	6	22.97
				25	0	22.90
		20375	1752.5	1	0	23.71
				1	24	23.60
				12	6	22.83
				25	0	22.81
5	16 QAM	19957	1712.5	1	0	23.42
				1	24	23.23
				12	6	21.93
				25	0	21.94
		20175	1732.5	1	0	23.40
				1	24	23.00
				12	6	21.93
				25	0	21.92
		20375	1752.5	1	0	23.15
				1	24	22.86
				12	6	21.90
				25	0	21.84

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LTE Band 4_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	20000	1715.0	1	0	**24.03**
				1	49	23.67
				25	12	22.91
				50	0	22.92
		20175	1732.5	1	0	23.78
				1	49	23.65
				25	12	22.93
				50	0	22.95
		20350	1750.0	1	0	23.79
				1	49	23.59
				25	12	22.79
				50	0	22.87
10	16 QAM	20000	1715	1	0	23.20
				1	49	22.95
				25	12	21.89
				50	0	22.00
		20175	1732.5	1	0	23.12
				1	49	23.00
				25	12	22.03
				50	0	22.01
		20350	1750.0	1	0	23.12
				1	49	22.85
				25	12	21.88
				50	0	21.91

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LTE Band 4_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	20025	1717.5	1	0	**23.94**
				1	74	23.73
				36	19	22.96
				75	0	22.96
		20175	1732.5	1	0	23.90
				1	74	23.79
				36	19	22.98
				75	0	22.93
		20325	1747.5	1	0	23.93
				1	74	23.68
				36	19	22.91
				75	0	22.85
15	16 QAM	20025	1717.5	1	0	23.34
				1	74	23.08
				36	19	21.93
				75	0	21.95
		20175	1732.5	1	0	23.24
				1	74	23.16
				36	19	22.03
				75	0	21.98
		20325	1747.5	1	0	23.34
				1	74	22.89
				36	19	21.93
				75	0	21.94

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LTE Band 4_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
20	QPSK	20050	1720.0	1	0	**24.03**
				1	99	23.84
				50	25	22.91
				100	0	22.97
		20175	1732.5	1	0	24.00
				1	99	23.80
				50	25	22.95
				100	0	22.94
		20300	1745.0	1	0	24.01
				1	99	23.71
				50	25	22.86
				100	0	22.87
20	16 QAM	20050	1720	1	0	23.18
				1	99	22.93
				50	25	21.89
				100	0	22.00
		20175	1732.5	1	0	23.44
				1	99	23.31
				50	25	21.98
				100	0	22.02
		20300	1745	1	0	23.49
				1	99	23.16
				50	25	21.94
				100	0	21.97

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LTE Band 5_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	20407	824.7	1	0	**23.19**
				1	5	23.10
				3	2	23.18
				6	0	22.15
		20525	836.5	1	0	23.12
				1	5	23.09
				3	2	23.16
				6	0	22.21
		20643	848.3	1	0	23.18
				1	5	23.15
				3	3	23.16
				6	0	22.22
1.4	16 QAM	20407	824.7	1	0	22.74
				1	5	22.75
				3	2	22.27
				6	0	21.44
		20525	836.5	1	0	22.73
				1	5	22.75
				3	3	22.13
				6	0	21.25
		20643	848.3	1	0	22.78
				1	5	22.74
				3	2	22.08
				6	0	21.31

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LTE Band 5_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
3	QPSK	20415	825.5	1	0	**23.14**
				1	14	22.95
				8	4	22.19
				15	0	22.17
		20525	836.5	1	0	23.01
				1	14	23.05
				8	4	22.19
				15	0	22.20
		20635	847.5	1	0	23.06
				1	14	23.01
				8	4	22.24
				15	0	22.23
3	16 QAM	20415	825.5	1	0	22.45
				1	14	22.29
				8	4	21.28
				15	0	21.19
		20525	836.5	1	0	22.32
				1	14	22.34
				8	4	21.3
				15	0	21.20
		20635	847.5	1	0	22.41
				1	14	22.33
				8	4	21.31
				15	0	21.26

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LTE Band 5_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	20425	826.5	1	0	23.18
				1	24	23.16
				12	6	22.22
				25	0	22.17
		20525	836.5	1	0	23.22
				1	24	23.18
				12	6	22.23
				25	0	22.21
		20625	846.5	1	0	**23.23**
				1	24	23.15
				12	6	22.30
				25	0	22.17
5	16 QAM	20425	826.5	1	0	22.71
				1	24	22.57
				12	6	21.25
				25	0	21.24
		20525	836.5	1	0	22.60
				1	24	22.68
				12	6	21.25
				25	0	21.14
		20625	846.5	1	0	22.69
				1	24	22.40
				12	6	21.23
				25	0	21.18

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LTE Band 5_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	20450	829.0	1	0	**23.27**
				1	49	23.21
				25	12	22.17
				50	0	22.16
		20525	836.5	1	0	23.19
				1	49	23.20
				25	12	22.20
				50	0	22.16
		20600	844.0	1	0	23.27
				1	49	23.12
				25	12	22.14
				50	0	22.23
10	16 QAM	20450	829	1	0	22.43
				1	49	22.63
				25	12	21.12
				50	0	21.27
		20525	836.5	1	0	22.71
				1	49	22.75
				25	12	21.21
				50	0	21.28
		20600	844.0	1	0	22.79
				1	49	22.65
				25	12	21.13
				50	0	21.23

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LTE Band 7_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	20775	2502.5	1	0	22.12
				1	24	22.11
				12	6	21.23
				25	0	21.18
		21100	2535.0	1	0	**22.50**
				1	24	22.16
				12	6	21.49
				25	0	21.46
		21425	2567.5	1	0	22.15
				1	24	22.25
				12	6	21.39
				25	0	21.34
5	16 QAM	20775	2502.5	1	0	21.65
				1	24	21.62
				12	6	20.32
				25	0	20.14
		21100	2535.0	1	0	21.92
				1	24	21.90
				12	6	20.56
				25	0	20.44
		21425	2567.5	1	0	21.82
				1	24	21.75
				12	6	20.40
				25	0	20.33

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LTE Band 7_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	20800	2505.0	1	0	22.11
				1	49	22.21
				25	12	21.21
				50	0	21.15
		21100	2535.0	1	0	**22.28**
				1	49	22.26
				25	12	21.45
				50	0	21.44
		21400	2565.0	1	0	22.27
				1	49	22.17
				25	12	21.29
				50	0	21.32
10	16 QAM	20800	2505.0	1	0	21.35
				1	49	21.37
				25	12	20.28
				50	0	20.18
		21100	2535.0	1	0	21.63
				1	49	21.66
				25	12	20.53
				50	0	20.44
		21400	2565.0	1	0	21.53
				1	49	21.51
				25	12	20.40
				50	0	20.34

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LTE Band 7_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	20825	2507.5	1	0	22.19
				1	74	**22.29**
				36	19	21.34
				75	0	21.31
		21100	2535.0	1	0	22.13
				1	74	22.22
				36	19	21.49
				75	0	21.50
		21375	2562.5	1	0	22.19
				1	74	22.18
				36	19	21.43
				75	0	21.45
15	16 QAM	20825	2507.5	1	0	21.36
				1	74	21.39
				36	19	20.39
				75	0	20.32
		21100	2535.0	1	0	21.40
				1	74	21.46
				36	19	20.53
				75	0	20.50
		21375	2562.5	1	0	21.36
				1	74	21.31
				36	19	20.47
				75	0	20.44

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LTE Band 7_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
20	QPSK	20850	2510.0	1	0	22.15
				1	99	22.25
				50	25	21.30
				100	0	21.24
		21100	2535.0	1	0	**22.27**
				1	99	22.24
				50	25	21.45
				100	0	21.42
		21350	2560.0	1	0	22.18
				1	99	22.15
				50	25	21.45
				100	0	21.39
20	16 QAM	20850	2510.0	1	0	21.43
				1	99	21.49
				50	25	20.27
				100	0	20.25
		21100	2535.0	1	0	21.67
				1	99	21.68
				50	25	20.47
				100	0	20.42
		21350	2560.0	1	0	21.61
				1	99	21.48
				50	25	20.41
				100	0	20.40

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6.5.1.4:HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} (*Note1, 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 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	**23.57**	23.25	23.47	20.3dBm – 25.7dBm	**Pass**
	2	23.28	23.22	23.46	20.3dBm – 25.7dBm	**Pass**
	3	23.09	22.80	22.94	19.8dBm – 25.7dBm	**Pass**
	4	23.16	22.81	23.06	19.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1412	1513		
HSDPA (B4)	1	23.67	23.80	**23.99**	20.3dBm – 25.7dBm	**Pass**
	2	23.81	23.83	23.74	20.3dBm – 25.7dBm	**Pass**
	3	23.21	23.32	23.50	19.8dBm – 25.7dBm	**Pass**
	4	23.26	23.36	23.56	19.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.22	23.26	**23.41**	20.3dBm – 25.7dBm	**Pass**
	2	23.36	23.29	23.16	20.3dBm – 25.7dBm	**Pass**
	3	22.76	22.78	22.92	19.8dBm – 25.7dBm	**Pass**
	4	22.81	22.82	22.98	19.8dBm – 25.7dBm	**Pass**

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6.5.1.4.: HSPA (HSDPA & HSUPA) Release 6 mode

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

HSPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.32	23.34	**23.55**	18.8dBm – 25.7dBm	**Pass**
	2	21.37	21.41	21.59	16.8dBm – 25.7dBm	**Pass**
	3	22.38	22.36	22.63	17.8dBm – 25.7dBm	**Pass**
	4	21.50	21.46	21.63	16.8dBm – 25.7dBm	**Pass**
	5	23.21	23.20	23.46	18.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1412	1513		
HSUPA(B4)	1	23.84	**23.87**	23.79	18.8dBm – 25.7dBm	**Pass**
	2	21.90	21.95	21.83	16.8dBm – 25.7dBm	**Pass**
	3	22.88	22.93	22.87	17.8dBm – 25.7dBm	**Pass**
	4	21.95	22.01	21.91	16.8dBm – 25.7dBm	**Pass**
	5	23.70	23.70	23.68	18.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	**23.39**	23.33	23.21	18.8dBm – 25.7dBm	**Pass**
	2	21.45	21.41	21.25	16.8dBm – 25.7dBm	**Pass**
	3	22.43	22.39	22.29	17.8dBm – 25.7dBm	**Pass**
	4	21.50	21.47	21.33	16.8dBm – 25.7dBm	**Pass**
	5	23.25	23.16	23.10	18.8dBm – 25.7dBm	**Pass**

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.5	28.2	26.1	24.2	22.1	20	18.2	16	14.1

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.1	10	7.9	6.1	4	2.1	0.2

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

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key "UE Power Control" and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 36 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. ERP, EIRP 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 station is limited to 2W EIRP.

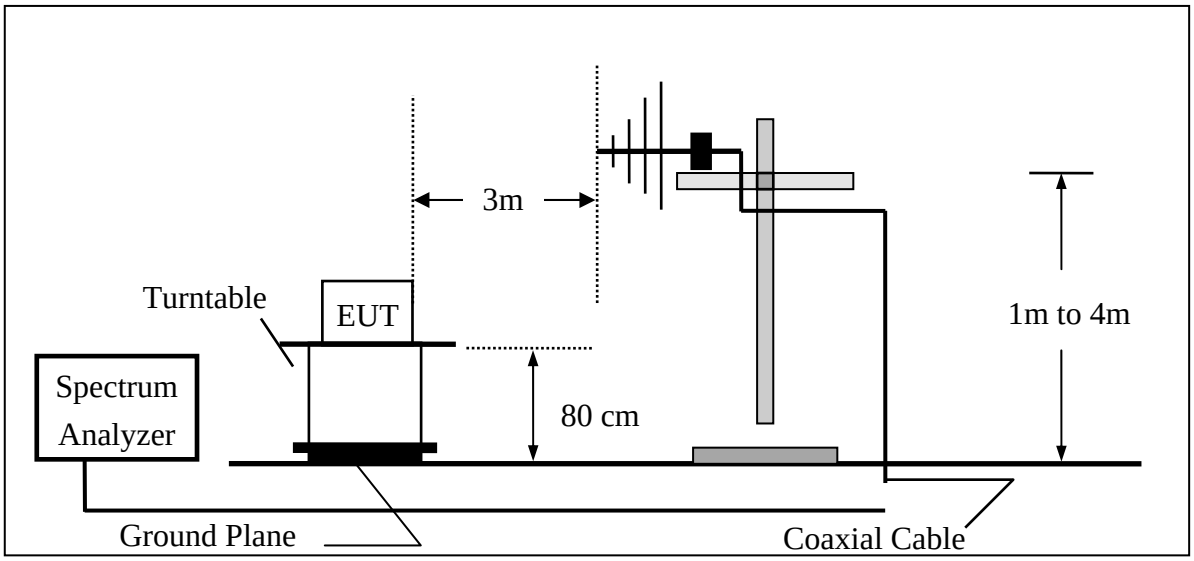
FCC 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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

7.2. Test SET-UP (Block Diagram of Configuration):

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



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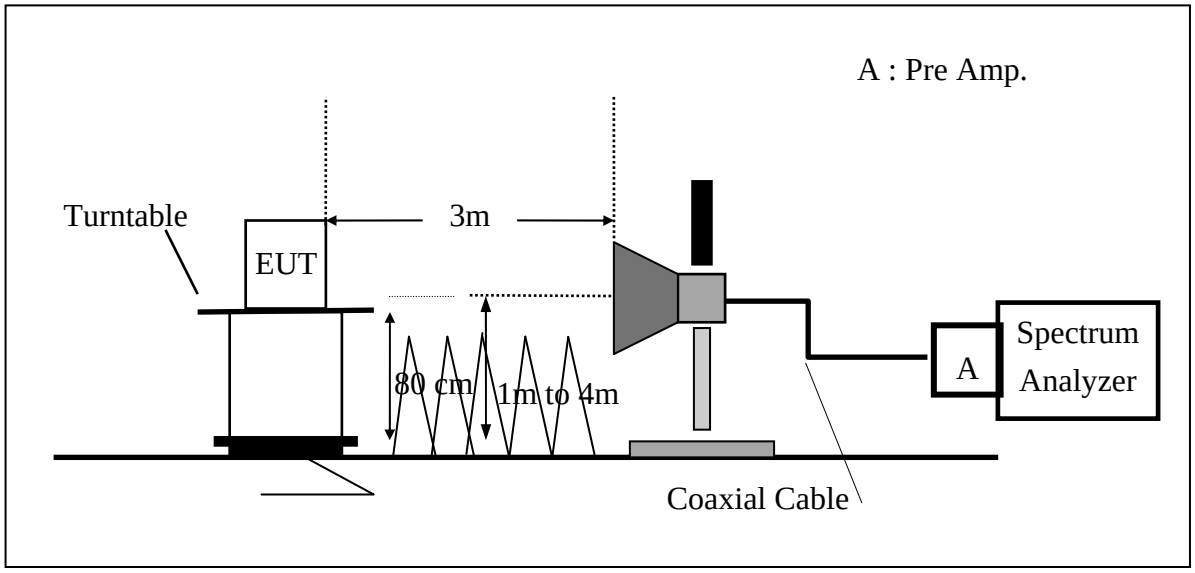
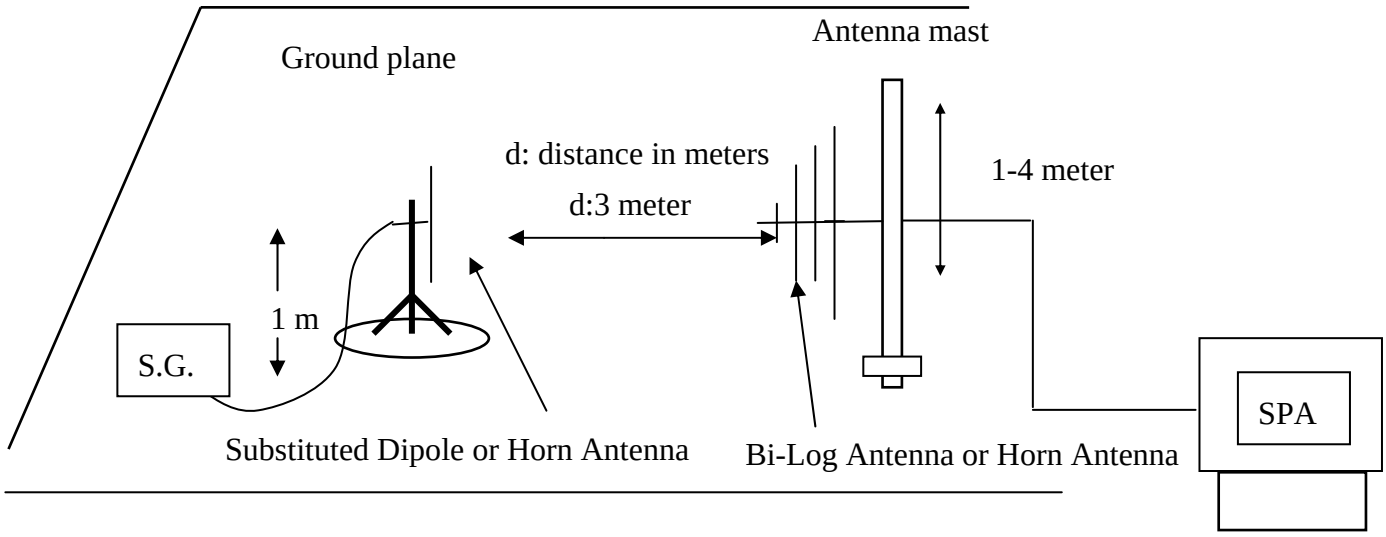
(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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.

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.

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1710-1755MHz and 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

EIRP in frequency band 2510 – 2560MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

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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 > =3xRBW.

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 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 ≈ 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 sweet time = 601*10^-3 = 6s.

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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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	23.81	3.75	-3.03	24.53	38.45
			H	21.20	3.75	-3.03	21.93	38.45
	836.6	190	V	24.05	3.76	-3.07	**24.74**	38.45
			H	21.36	3.76	-3.07	22.05	38.45
	848.8	251	V	23.37	3.77	-3.11	24.03	38.45
			H	19.19	3.77	-3.11	19.86	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	23.51	3.75	-3.03	**24.24**	38.45
			H	20.30	3.75	-3.03	21.03	38.45
	836.6	190	V	23.34	3.76	-3.07	24.04	38.45
			H	20.65	3.76	-3.07	21.34	38.45
	848.8	251	V	23.03	3.77	-3.11	23.69	38.45
			H	18.50	3.77	-3.11	19.17	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	22.29	3.75	-3.03	**23.02**	38.45
			H	19.25	3.75	-3.03	19.98	38.45
	836.6	190	V	22.32	3.76	-3.07	23.01	38.45
			H	19.13	3.76	-3.07	19.82	38.45
	848.8	251	V	21.49	3.77	-3.11	22.15	38.45
			H	17.45	3.77	-3.11	18.12	38.45

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	25.31	5.22	-4.67	25.86	33.01
			H	21.16	5.22	-4.67	21.71	33.01
	1880.0	661	V	25.70	5.16	-4.70	**26.15**	33.01
			H	22.85	5.16	-4.70	23.30	33.01
	1909.8	810	V	25.10	5.09	-4.74	25.46	33.01
			H	24.42	5.09	-4.74	24.77	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	25.09	5.22	-4.67	25.64	33.01
			H	21.00	5.22	-4.67	21.56	33.01
	1880.0	661	V	25.29	5.16	-4.70	**25.75**	33.01
			H	22.66	5.16	-4.70	23.11	33.01
	1909.8	810	V	24.85	5.09	-4.74	25.20	33.01
			H	23.92	5.09	-4.74	24.27	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	1850.2	512	V	24.55	5.22	-4.67	25.11	33.01
			H	20.59	5.22	-4.67	21.15	33.01
	1880.0	661	V	24.96	5.16	-4.70	**25.41**	33.01
			H	22.10	5.16	-4.70	22.56	33.01
	1909.8	810	V	24.46	5.09	-4.74	24.81	33.01
			H	23.32	5.09	-4.74	23.68	33.01

Remark：

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

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EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
WCDMA B2	1852.4	9262	V	21.48	5.22	-4.67	**22.03**	33.01
			H	18.13	5.22	-4.67	18.67	33.01
	1880.0	9400	V	21.43	5.16	-4.70	21.88	33.01
			H	17.92	5.16	-4.70	18.37	33.01
	1907.6	9538	V	21.15	5.10	-4.74	21.51	33.01
			H	19.08	5.10	-4.74	19.44	33.01

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA B2	1852.4	9262	V	21.18	5.22	-4.67	**21.72**	33.01
			H	17.89	5.22	-4.67	18.44	33.01
	1880.0	9400	V	20.99	5.16	-4.70	21.44	33.01
			H	17.67	5.16	-4.70	18.13	33.01
	1907.6	9538	V	20.76	5.10	-4.74	21.12	33.01
			H	18.73	5.10	-4.74	19.09	33.01

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSUPA B2	1852.4	9262	V	20.96	5.22	-4.67	**21.51**	33.01
			H	17.46	5.22	-4.67	18.01	33.01
	1880.0	9400	V	20.75	5.16	-4.70	21.20	33.01
			H	17.20	5.16	-4.70	17.65	33.01
	1907.6	9538	V	20.43	5.10	-4.74	20.79	33.01
			H	18.33	5.10	-4.74	18.69	33.01

Remark：

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	23.38	5.55	-4.50	**24.43**	33.01
			H	16.44	5.55	-4.50	17.48	33.01
	1732.6	1413	V	20.87	5.50	-4.53	21.85	33.01
			H	15.65	5.50	-4.53	16.62	33.01
	1752.6	1513	V	21.51	5.45	-4.55	22.41	33.01
			H	15.09	5.45	-4.55	15.99	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
HSDPA B4	1712.4	1312	V	23.06	5.55	-4.50	**24.11**	33.01
			H	16.20	5.55	-4.50	17.25	33.01
	1732.6	1413	V	20.62	5.50	-4.53	21.59	33.01
			H	15.31	5.50	-4.53	16.28	33.01
	1752.6	1513	V	21.19	5.45	-4.55	22.09	33.01
			H	14.65	5.45	-4.55	15.55	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	22.85	5.55	-4.50	**23.90**	33.01
			H	16.09	5.55	-4.50	17.14	33.01
	1732.6	1413	V	20.34	5.50	-4.53	21.31	33.01
			H	15.14	5.50	-4.53	16.12	33.01
	1752.6	1513	V	20.75	5.45	-4.55	21.65	33.01
			H	14.32	5.45	-4.55	15.22	33.01

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 1MHz , VBW= 3MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	16.40	3.76	-3.03	**17.13**	38.45
			H	14.23	3.76	-3.03	14.96	38.45
	836.6	4183	V	16.23	3.76	-3.07	16.92	38.45
			H	13.79	3.76	-3.07	14.49	38.45
	846.6	4233	V	14.90	3.77	-3.10	15.57	38.45
			H	13.31	3.77	-3.10	13.98	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	15.93	3.76	-3.03	**16.65**	38.45
			H	13.80	3.76	-3.03	14.52	38.45
	836.6	4183	V	15.19	3.76	-3.07	15.88	38.45
			H	13.63	3.76	-3.07	14.32	38.45
	846.6	4233	V	14.96	3.77	-3.10	15.63	38.45
			H	13.00	3.77	-3.10	13.67	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	14.85	3.76	-3.03	15.58	38.45
			H	14.03	3.76	-3.03	14.76	38.45
	836.6	4183	V	15.05	3.76	-3.07	**15.74**	38.45
			H	13.22	3.76	-3.07	13.91	38.45
	846.6	4233	V	14.92	3.77	-3.10	15.59	38.45
			H	12.79	3.77	-3.10	13.46	38.45

Remark：

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

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BAND 2 / BW: 1.4M / QPSK / RB: 1,0

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	20.57	5.22	-4.67	21.12	33.01
			H	16.62	5.23	-4.67	17.17	33.01
	1880.0	18900	V	24.49	5.16	-4.70	**24.94**	33.01
			H	17.25	5.16	-4.70	17.70	33.01
	1909.3	19193	V	22.21	5.10	-4.74	22.57	33.01
			H	13.16	5.10	-4.74	13.52	33.01

BAND 2 / BW: 1.4M / QPSK / RB: 1,5

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: 1,5	1850.7	18607	V	20.65	5.22	-4.67	21.2	33.01
			H	16.59	5.22	-4.67	17.14	33.01
	1880.0	18900	V	24.42	5.16	-4.71	**24.87**	33.01
			H	16.98	5.16	-4.70	17.44	33.01
	1909.3	19193	V	22.00	5.09	-4.74	22.35	33.01
			H	12.98	5.09	-4.74	13.33	33.01

Remark：

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

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BAND 2 / BW: 1.4M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1850.7	18607	V	21.08	5.22	-4.67	21.64	33.01
			H	17.18	5.22	-4.67	17.74	33.01
	1880.0	18900	V	24.57	5.16	-4.70	**25.02**	33.01
			H	17.03	5.16	-4.70	17.49	33.01
	1909.3	19193	V	22.62	5.10	-4.74	22.98	33.01
			H	13.62	5.10	-4.74	13.98	33.01

BAND 2 / BW: 1.4M / 16QAM / RB: 1,5

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 16QAM RB: 1,5	1850.7	18607	V	21.20	5.22	-4.67	21.75	33.01
			H	17.17	5.22	-4.67	17.72	33.01
	1880.0	18900	V	24.64	5.16	-4.70	**25.09**	33.01
			H	17.05	5.15	-4.71	17.49	33.01
	1909.3	19193	V	22.49	5.09	-4.74	22.84	33.01
			H	13.43	5.09	-4.74	13.79	33.01

Remark：

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

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BAND 2 / BW: 3M / QPSK / RB: 1,0

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	20.46	5.22	-4.67	21.02	33.01
			H	16.67	5.22	-4.67	17.23	33.01
	1880.0	18900	V	23.40	5.16	-4.70	**23.87**	33.01
			H	15.84	5.16	-4.70	16.30	33.01
	1908.5	19185	V	22.27	5.10	-4.74	22.64	33.01
			H	13.53	5.10	-4.73	13.89	33.01

BAND 2 / BW: 3M / QPSK / RB: 1,14

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: 1,14	1851.5	18615	V	20.57	5.22	-4.67	21.12	33.01
			H	16.37	5.22	-4.67	16.92	33.01
	1880.0	18900	V	23.24	5.16	-4.71	**23.69**	33.01
			H	16.03	5.16	-4.71	16.48	33.01
	1908.5	19185	V	22.00	5.09	-4.74	22.36	33.01
			H	12.93	5.09	-4.74	13.28	33.01

Remark：

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

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BAND 2 / BW: 3M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1851.5	18615	V	20.56	5.23	-4.67	21.11	33.01
			H	17.17	5.23	-4.67	17.73	33.01
	1880.0	18900	V	23.99	5.16	-4.70	**24.45**	33.01
			H	16.45	5.16	-4.70	16.91	33.01
	1908.5	19185	V	22.74	5.10	-4.74	23.10	33.01
			H	14.07	5.10	-4.74	14.44	33.01

BAND 2 / BW: 3M / 16QAM / RB: 1,14

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 16QAM RB: 1,14	1851.5	18615	V	21.18	5.22	-4.67	21.73	33.01
			H	16.98	5.22	-4.67	17.53	33.01
	1880.0	18900	V	23.83	5.16	-4.71	**24.28**	33.01
			H	16.67	5.16	-4.71	17.12	33.01
	1908.5	19185	V	22.48	5.09	-4.74	22.84	33.01
			H	13.38	5.09	-4.74	13.73	33.01

Remark：

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

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BAND 2 / BW: 5M / QPSK / RB: 1,0

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	20.6	5.22	-4.67	21.15	33.01
			H	16.65	5.22	-4.67	17.21	33.01
	1880.0	18900	V	23.30	5.16	-4.70	**23.76**	33.01
			H	15.68	5.16	-4.70	16.14	33.01
	1907.5	19175	V	22.06	5.10	-4.73	22.43	33.01
			H	13.96	5.10	-4.73	14.33	33.01

BAND 2 / BW: 5M / QPSK / RB: 1,24

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: 1,24	1852.5	18625	V	20.39	5.22	-4.67	20.93	33.01
			H	16.06	5.21	-4.67	16.60	33.01
	1880.0	18900	V	22.98	5.16	-4.71	**23.42**	33.01
			H	15.96	5.16	-4.71	16.41	33.01
	1907.5	19175	V	21.94	5.09	-4.74	22.29	33.01
			H	12.95	5.09	-4.74	13.30	33.01

Remark：

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

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BAND 2 / BW: 5M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1852.5	18625	V	21.06	5.23	-4.67	21.62	33.01
			H	17.20	5.22	-4.67	17.76	33.01
	1880.0	18900	V	23.96	5.16	-4.70	**24.43**	33.01
			H	16.33	5.16	-4.70	16.79	33.01
	1907.5	19175	V	22.45	5.10	-4.73	22.82	33.01
			H	14.51	5.10	-4.73	14.87	33.01

BAND 2 / BW: 5M / 16QAM / RB: 1,24

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 16QAM RB: 1,24	1852.5	18625	V	21.02	5.21	-4.67	21.56	33.01
			H	16.70	5.22	-4.67	17.24	33.01
	1880.0	18900	V	23.65	5.15	-4.71	**24.09**	33.01
			H	16.70	5.16	-4.71	17.15	33.01
	1907.5	19175	V	22.46	5.09	-4.74	22.82	33.01
			H	13.50	5.10	-4.74	13.85	33.01

Remark：

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

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BAND 2 / BW: 10M / QPSK / RB: 1,0

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	20.61	5.22	-4.67	21.17	33.01
			H	16.57	5.22	-4.67	17.13	33.01
	1880.0	18900	V	23.02	5.17	-4.70	**23.49**	33.01
			H	15.25	5.17	-4.70	15.72	33.01
	1905.0	19150	V	21.52	5.11	-4.73	21.91	33.01
			H	13.50	5.11	-4.73	13.89	33.01

BAND 2 / BW: 10M / QPSK / RB: 1,49

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: 1,49	1855.0	18650	V	20.73	5.20	-4.68	21.25	33.01
			H	14.99	5.21	-4.68	15.51	33.01
	1880.0	18900	V	22.17	5.15	-4.71	**22.61**	33.01
			H	15.79	5.15	-4.71	16.23	33.01
	1905.0	19150	V	21.90	5.09	-4.74	22.26	33.01
			H	13.07	5.09	-4.74	13.43	33.01

Remark：

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

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BAND 2 / BW: 10M /16QAM / RB: 1,0

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 16QAM RB: 1,0	1855.0	18650	V	21.37	5.22	-4.67	21.93	33.01
			H	17.26	5.22	-4.67	17.82	33.01
	1880.0	18900	V	23.68	5.17	-4.70	**24.15**	33.01
			H	15.92	5.17	-4.70	16.38	33.01
	1905.0	19150	V	22.16	5.11	-4.73	22.55	33.01
			H	14.14	5.11	-4.73	14.52	33.01

BAND 2 / BW: 10M / 16QAM / RB: 1,49

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 16QAM RB: 1,49	1855.0	18650	V	21.39	5.21	-4.68	21.92	33.01
			H	15.68	5.21	-4.68	16.20	33.01
	1880.0	18900	V	22.91	5.15	-4.71	**23.35**	33.01
			H	16.53	5.15	-4.71	16.97	33.01
	1905.0	19150	V	22.45	5.09	-4.74	22.80	33.01
			H	13.64	5.09	-4.74	14.00	33.01

Remark：

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

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BAND 2 / BW: 15M / QPSK / RB: 1,0

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	20.65	5.22	-4.67	21.20	33.01
			H	16.68	5.22	-4.67	17.23	33.01
	1880.0	18900	V	22.76	5.17	-4.70	**23.24**	33.01
			H	14.84	5.17	-4.70	15.31	33.01
	1902.5	19125	V	19.64	5.12	-4.72	20.04	33.01
			H	13.57	5.12	-4.72	13.98	33.01

BAND 2 / BW: 15M / QPSK / RB: 1,74

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: 1,74	1857.5	18675	V	22.10	5.19	-4.69	**22.61**	33.01
			H	14.48	5.19	-4.69	14.98	33.01
	1880.0	18900	V	21.04	5.14	-4.71	21.48	33.01
			H	15.65	5.14	-4.71	16.08	33.01
	1902.5	19125	V	22.02	5.10	-4.74	22.37	33.01
			H	13.14	5.10	-4.74	13.49	33.01

Remark：

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

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BAND 2 / BW: 15M /16QAM / RB: 1,0

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 16QAM RB: 1,0	1857.5	18675	V	21.29	5.22	-4.67	21.84	33.01
			H	17.08	5.22	-4.67	17.64	33.01
	1880.0	18900	V	23.43	5.17	-4.70	**23.91**	33.01
			H	15.49	5.17	-4.70	15.97	33.01
	1902.5	19125	V	20.29	5.12	-4.72	20.69	33.01
			H	14.18	5.12	-4.72	14.58	33.01

BAND 2 / BW: 15M / 16QAM / RB: 1,74

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 16QAM RB: 1,74	1857.5	18675	V	22.70	5.19	-4.69	**23.21**	33.01
			H	15.13	5.19	-4.69	15.64	33.01
	1880.0	18900	V	21.78	5.14	-4.71	22.22	33.01
			H	16.37	5.14	-4.71	16.80	33.01
	1902.5	19125	V	22.58	5.10	-4.74	22.94	33.01
			H	13.69	5.09	-4.74	14.05	33.01

Remark：

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

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BAND 2 / BW: 20M / QPSK / RB: 1,0

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	20.63	5.22	-4.67	21.18	33.01
			H	16.67	5.22	-4.67	17.22	33.01
	1880.0	18900	V	22.73	5.18	-4.69	**23.22**	33.01
			H	14.59	5.18	-4.69	15.08	33.01
	1900.0	19100	V	21.25	5.14	-4.72	21.67	33.01
			H	14.59	5.13	-4.72	15.00	33.01

BAND 2 / BW: 20M / QPSK / RB: 1,99

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: 1,99	1860.0	18700	V	22.90	5.18	-4.69	**23.39**	33.01
			H	14.51	5.18	-4.69	15.01	33.01
	1880.0	18900	V	19.94	5.14	-4.71	20.37	33.01
			H	15.31	5.14	-4.71	15.73	33.01
	1900.0	19100	V	16.54	5.10	-4.74	16.89	33.01
			H	13.20	5.10	-4.74	13.56	33.01

Remark：

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

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BAND 2 / BW: 20M /16QAM / RB: 1,0

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 16QAM RB: 1,0	1860.0	18700	V	21.33	5.22	-4.67	21.88	33.01
			H	17.32	5.22	-4.67	17.88	33.01
	1880.0	18900	V	23.40	5.18	-4.69	**23.89**	33.01
			H	15.25	5.18	-4.69	15.73	33.01
	1900.0	19100	V	21.95	5.13	-4.72	22.37	33.01
			H	15.28	5.14	-4.72	15.7	33.01

BAND 2 / BW: 20M / 16QAM / RB: 1,99

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 16QAM RB: 1,99	1860.0	18700	V	23.53	5.18	-4.69	**24.02**	33.01
			H	15.17	5.18	-4.69	15.66	33.01
	1880.0	18900	V	20.75	5.14	-4.71	21.18	33.01
			H	16.05	5.14	-4.71	16.47	33.01
	1900.0	19100	V	17.08	5.09	-4.74	17.44	33.01
			H	13.79	5.10	-4.74	14.14	33.01

Remark：

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

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BAND 4 / BW: 1.4M / QPSK / RB: 1,0

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	23.36	5.55	-4.50	**24.42**	30.00
			H	18.83	5.55	-4.50	19.88	30.00
	1732.5	20175	V	22.18	5.50	-4.53	23.15	30.00
			H	14.81	5.50	-4.53	15.78	30.00
	1754.3	20393	V	20.55	5.45	-4.55	21.44	30.00
			H	16.88	5.45	-4.55	17.78	30.00

BAND 4 / BW: 1.4M / QPSK / RB: 1,5

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: 1,5	1710.7	19957	V	23.19	5.55	-4.50	**24.25**	30.00
			H	18.89	5.55	-4.50	19.95	30.00
	1732.5	20175	V	22.20	5.50	-4.53	23.17	30.00
			H	15.08	5.50	-4.53	16.06	30.00
	1754.3	20393	V	20.49	5.45	-4.55	21.38	30.00
			H	16.60	5.45	-4.55	17.50	30.00

Remark：

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

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BAND 4 / BW: 1.4M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1710.7	19957	V	23.39	5.55	-4.50	**24.45**	30.00
			H	18.90	5.55	-4.50	19.95	30.00
	1732.5	20175	V	22.33	5.50	-4.53	23.31	30.00
			H	15.08	5.50	-4.52	16.06	30.00
	1754.3	20393	V	20.78	5.45	-4.55	21.68	30.00
			H	16.93	5.45	-4.55	17.83	30.00

BAND 4 / BW: 1.4M / 16QAM / RB: 1,5

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 16QAM RB: 1,5	1710.7	19957	V	23.54	5.55	-4.50	**24.59**	30.00
			H	19.26	5.55	-4.50	20.31	30.00
	1732.5	20175	V	22.41	5.50	-4.53	23.38	30.00
			H	15.39	5.50	-4.53	16.36	30.00
	1754.3	20393	V	20.69	5.45	-4.55	21.58	30.00
			H	16.72	5.45	-4.55	17.62	30.00

Remark：

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

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BAND 4 / BW: 3M / QPSK / RB: 1,0

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	23.50	5.55	-4.50	**24.56**	30.00
			H	18.91	5.55	-4.50	19.97	30.00
	1732.5	20175	V	21.89	5.50	-4.52	22.87	30.00
			H	14.45	5.50	-4.52	15.43	30.00
	1753.5	20385	V	20.36	5.45	-4.55	21.27	30.00
			H	16.48	5.45	-4.55	17.39	30.00

BAND 4 / BW: 3M / QPSK / RB: 1,14

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: 1,14	1711.5	19965	V	22.76	5.55	-4.50	**23.81**	30.00
			H	18.95	5.55	-4.50	19.99	30.00
	1732.5	20175	V	21.81	5.50	-4.53	22.78	30.00
			H	15.19	5.50	-4.53	16.16	30.00
	1753.5	20385	V	20.00	5.45	-4.55	20.89	30.00
			H	15.86	5.45	-4.55	16.75	30.00

Remark：

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

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BAND 4 / BW: 3M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1711.5	19965	V	23.74	5.55	-4.50	**24.79**	30.00
			H	19.12	5.55	-4.50	20.18	30.00
	1732.5	20175	V	22.37	5.50	-4.52	23.35	30.00
			H	14.85	5.50	-4.52	15.83	30.00
	1753.5	20385	V	20.80	5.45	-4.55	21.70	30.00
			H	16.84	5.45	-4.55	17.74	30.00

BAND 4 / BW: 3M / 16QAM / RB: 1,14

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 16QAM RB: 1,14	1711.5	19965	V	23.10	5.55	-4.50	**24.14**	30.00
			H	19.33	5.55	-4.50	20.38	30.00
	1732.5	20175	V	22.16	5.50	-4.53	23.13	30.00
			H	15.52	5.50	-4.53	16.49	30.00
	1753.5	20385	V	20.36	5.45	-4.55	21.25	30.00
			H	16.24	5.45	-4.55	17.14	30.00

Remark：

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

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BAND 4 / BW: 5M / QPSK / RB: 1,0

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	22.52	5.55	-4.50	**23.58**	30.00
			H	18.37	5.55	-4.50	19.43	30.00
	1732.5	20175	V	21.95	5.51	-4.52	22.93	30.00
			H	14.27	5.51	-4.52	15.26	30.00
	1752.5	20375	V	20.55	5.46	-4.55	21.46	30.00
			H	16.31	5.46	-4.55	17.22	30.00

BAND 4 / BW: 5M / QPSK / RB: 1,24

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: 1,24	1712.5	19975	V	21.44	5.54	-4.50	22.48	30.00
			H	18.62	5.54	-4.50	19.66	30.00
	1732.5	20175	V	21.76	5.49	-4.53	**22.72**	30.00
			H	15.62	5.49	-4.53	16.59	30.00
	1752.5	20375	V	19.96	5.45	-4.55	20.85	30.00
			H	15.09	5.45	-4.55	15.98	30.00

Remark：

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

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BAND 4 / BW: 5M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1712.5	19975	V	22.88	5.55	-4.50	**23.94**	30.00
			H	18.91	5.55	-4.50	19.96	30.00
	1732.5	20175	V	22.40	5.51	-4.52	23.39	30.00
			H	14.78	5.51	-4.52	15.77	30.00
	1752.5	20375	V	21.06	5.46	-4.55	21.97	30.00
			H	16.74	5.46	-4.55	17.65	30.00

BAND 4 / BW: 5M / 16QAM / RB: 1,24

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 16QAM RB: 1,24	1712.5	19975	V	22.08	5.54	-4.50	23.12	30.00
			H	19.09	5.54	-4.50	20.13	30.00
	1732.5	20175	V	22.21	5.50	-4.53	**23.18**	30.00
			H	16.08	5.50	-4.53	17.05	30.00
	1752.5	20375	V	20.40	5.45	-4.55	21.29	30.00
			H	15.52	5.45	-4.55	16.41	30.00

Remark：

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

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BAND 4 / BW: 10M / QPSK / RB: 1,0

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	22.57	5.55	-4.50	**23.62**	30.00
			H	18.23	5.55	-4.50	19.28	30.00
	1732.5	20175	V	22.14	5.51	-4.52	23.13	30.00
			H	14.35	5.51	-4.52	15.34	30.00
	1750.0	20350	V	21.32	5.47	-4.54	22.25	30.00
			H	17.43	5.47	-4.54	18.36	30.00

BAND 4 / BW: 10M / QPSK / RB: 1,49

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: 1,49	1715.0	20000	V	20.97	5.53	-4.51	22.00	30.00
			H	17.49	5.53	-4.51	18.51	30.00
	1732.5	20175	V	21.86	5.49	-4.53	**22.82**	30.00
			H	16.56	5.49	-4.53	17.52	30.00
	1750.0	20350	V	20.00	5.45	-4.55	20.90	30.00
			H	14.91	5.45	-4.55	15.81	30.00

Remark：

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

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BAND 4 / BW: 10M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1715.0	20000	V	23.28	5.55	-4.50	**24.34**	30.00
			H	19.04	5.55	-4.50	20.09	30.00
	1732.5	20175	V	22.60	5.51	-4.52	23.59	30.00
			H	14.87	5.51	-4.52	15.86	30.00
	1750.0	20350	V	21.88	5.47	-4.54	22.81	30.00
			H	18.00	5.47	-4.54	18.93	30.00

BAND 4 / BW: 10M / 16QAM / RB: 1,49

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 16QAM RB: 1,49	1715.0	20000	V	21.51	5.53	-4.51	22.54	30.00
			H	18.03	5.53	-4.51	19.05	30.00
	1732.5	20175	V	22.40	5.49	-4.53	**23.36**	30.00
			H	17.04	5.49	-4.53	18.00	30.00
	1750.0	20350	V	20.40	5.45	-4.55	21.29	30.00
			H	15.31	5.45	-4.55	16.21	30.00

Remark：

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

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BAND 4 / BW: 15M / QPSK / RB: 1,0

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	22.70	5.55	-4.50	**23.75**	30.00
			H	18.44	5.55	-4.50	19.50	30.00
	1732.5	20175	V	21.98	5.52	-4.52	22.98	30.00
			H	15.45	5.52	-4.52	16.45	30.00
	1747.5	20325	V	21.83	5.48	-4.54	22.77	30.00
			H	17.33	5.48	-4.54	18.27	30.00

BAND 4 / BW: 15M / QPSK / RB: 1,74

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: 1,74	1717.5	20025	V	21.94	5.52	-4.51	**22.95**	30.00
			H	15.68	5.52	-4.51	16.68	30.00
	1732.5	20175	V	21.94	5.48	-4.53	22.89	30.00
			H	15.20	5.48	-4.53	16.15	30.00
	1747.5	20325	V	19.78	5.45	-4.55	20.68	30.00
			H	14.65	5.45	-4.55	15.55	30.00

Remark：

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

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BAND 4 / BW: 15M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	1717.5	20025	V	23.09	5.55	-4.50	**24.14**	30.00
			H	19.00	5.55	-4.50	20.06	30.00
	1732.5	20175	V	22.46	5.52	-4.52	23.46	30.00
			H	15.95	5.52	-4.52	16.95	30.00
	1747.5	20325	V	22.32	5.48	-4.53	23.27	30.00
			H	17.91	5.48	-4.54	18.86	30.00

BAND 4 / BW: 15M / 16QAM / RB: 1,74

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 16QAM RB: 1,74	1717.5	20025	V	22.32	5.52	-4.51	23.32	30.00
			H	16.08	5.52	-4.52	17.08	30.00
	1732.5	20175	V	22.43	5.48	-4.53	**23.38**	30.00
			H	15.67	5.48	-4.53	16.62	30.00
	1747.5	20325	V	20.25	5.45	-4.55	21.15	30.00
			H	15.04	5.45	-4.55	15.94	30.00

Remark：

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

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BAND 4 / BW: 20M / QPSK / RB: 1,0

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	22.56	5.55	-4.50	**23.61**	30.00
			H	18.45	5.55	-4.50	19.50	30.00
	1732.5	20175	V	21.67	5.52	-4.51	22.68	30.00
			H	16.61	5.52	-4.51	17.61	30.00
	1745.0	20300	V	21.71	5.49	-4.53	22.67	30.00
			H	16.18	5.49	-4.53	17.14	30.00

BAND 4 / BW: 20M / QPSK / RB: 1,99

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: 1,99	1720.0	20050	V	22.02	5.50	-4.52	**23.00**	30.00
			H	14.25	5.51	-4.52	15.24	30.00
	1732.5	20175	V	21.85	5.48	-4.54	22.80	30.00
			H	15.48	5.48	-4.54	16.43	30.00
	1745.0	20300	V	19.93	5.45	-4.55	20.83	30.00
			H	14.41	5.45	-4.55	15.30	30.00

Remark：

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

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BAND 4 / BW: 20M /16QAM / RB: 1,0

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 16QAM RB: 1,0	1720.0	20050	V	23.03	5.55	-4.50	**24.09**	30.00
			H	19.04	5.55	-4.50	20.09	30.00
	1732.5	20175	V	22.15	5.52	-4.51	23.16	30.00
			H	16.99	5.52	-4.51	18.00	30.00
	1745.0	20300	V	22.25	5.49	-4.53	23.21	30.00
			H	16.74	5.49	-4.53	17.70	30.00

BAND 4 / BW: 20M / 16QAM / RB: 1,99

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 16QAM RB: 1,99	1720.0	20050	V	22.47	5.51	-4.52	**23.46**	30.00
			H	14.70	5.51	-4.52	15.69	30.00
	1732.5	20175	V	22.38	5.48	-4.54	23.32	30.00
			H	16.06	5.48	-4.54	17.00	30.00
	1745.0	20300	V	20.35	5.45	-4.55	21.25	30.00
			H	14.83	5.45	-4.55	15.72	30.00

Remark：

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

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BAND 5 / BW: 1.4M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	20.88	3.75	-3.03	21.61	38.45
			H	13.34	3.75	-3.03	14.07	38.45
	836.5	20525	V	21.48	3.76	-3.06	**22.17**	38.45
			H	14.72	3.76	-3.06	15.42	38.45
	848.3	20643	V	21.33	3.77	-3.10	22.00	38.45
			H	12.09	3.77	-3.10	12.76	38.45

BAND 5 / BW: 1.4M / QPSK / RB: 1,5

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	20.45	3.76	-3.03	21.18	38.45
			H	13.31	3.75	-3.03	14.04	38.45
	836.5	20525	V	21.53	3.76	-3.07	**22.22**	38.45
			H	14.01	3.76	-3.07	14.71	38.45
	848.3	20643	V	21.27	3.77	-3.10	21.93	38.45
			H	12.14	3.77	-3.10	12.81	38.45

Remark：

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

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BAND 5 / BW: 1.4M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	20.99	3.75	-3.03	21.72	38.45
			H	13.87	3.75	-3.03	14.60	38.45
	836.5	20525	V	22.65	3.76	-3.06	**23.35**	38.45
			H	14.74	3.76	-3.06	15.44	38.45
	848.3	20643	V	21.95	3.77	-3.10	22.61	38.45
			H	13.29	3.77	-3.10	13.96	38.45

BAND 5 / BW: 1.4M / 16QAM / RB: 1,5

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	21.04	3.76	-3.03	21.76	38.45
			H	13.94	3.76	-3.03	14.67	38.45
	836.5	20525	V	22.76	3.76	-3.06	**23.45**	38.45
			H	14.96	3.76	-3.07	15.65	38.45
	848.3	20643	V	21.86	3.77	-3.10	22.52	38.45
			H	13.37	3.77	-3.10	14.04	38.45

Remark：

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

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BAND 5 / BW: 3M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	20.81	3.75	-3.03	21.54	38.45
			H	13.46	3.75	-3.03	14.18	38.45
	836.5	20525	V	21.71	3.76	-3.06	**22.41**	38.45
			H	13.54	3.76	-3.06	14.24	38.45
	847.5	20635	V	20.92	3.77	-3.10	21.59	38.45
			H	12.11	3.77	-3.10	12.78	38.45

BAND 5 / BW: 3M / QPSK / RB: 1,14

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	20.36	3.76	-3.03	21.08	38.45
			H	13.21	3.76	-3.04	13.93	38.45
	836.5	20525	V	21.95	3.76	-3.07	**22.64**	38.45
			H	13.64	3.76	-3.07	14.34	38.45
	847.5	20635	V	20.94	3.77	-3.10	21.60	38.45
			H	12.19	3.77	-3.11	12.85	38.45

Remark：

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

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BAND 5 / BW: 3M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	20.39	3.76	-3.04	21.11	38.45
			H	14.08	3.75	-3.03	14.81	38.45
	836.5	20525	V	22.45	3.76	-3.06	**23.14**	38.45
			H	14.83	3.76	-3.06	15.53	38.45
	847.5	20635	V	21.87	3.77	-3.10	22.54	38.45
			H	13.31	3.77	-3.10	13.98	38.45

BAND 5 / BW: 3M / 16QAM / RB: 1,14

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	21.06	3.76	-3.03	21.78	38.45
			H	13.81	3.76	-3.03	14.53	38.45
	836.5	20525	V	22.84	3.76	-3.07	**23.53**	38.45
			H	14.68	3.76	-3.07	15.37	38.45
	847.5	20635	V	21.64	3.77	-3.11	22.30	38.45
			H	12.83	3.77	-3.11	13.49	38.45

Remark：

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

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BAND 5 / BW: 5M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	20.57	3.75	-3.03	21.29	38.45
			H	13.47	3.75	-3.03	14.2	38.45
	836.5	20525	V	21.13	3.76	-3.06	21.83	38.45
			H	14.89	3.76	-3.06	15.59	38.45
	846.5	20625	V	21.98	3.77	-3.09	**22.65**	38.45
			H	13.77	3.77	-3.09	14.44	38.45

BAND 5 / BW: 5M / QPSK / RB: 1,24

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	20.26	3.76	-3.04	20.97	38.45
			H	12.99	3.76	-3.04	13.70	38.45
	836.5	20525	V	21.76	3.76	-3.07	22.45	38.45
			H	15.13	3.76	-3.07	15.82	38.45
	846.5	20625	V	22.04	3.77	-3.10	**22.71**	38.45
			H	13.38	3.77	-3.11	14.05	38.45

Remark：

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

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BAND 5 / BW: 5M / 16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	21.28	3.75	-3.03	22.01	38.45
			H	13.87	3.75	-3.03	14.59	38.45
	836.5	20525	V	22.02	3.76	-3.06	22.72	38.45
			H	15.50	3.76	-3.06	16.20	38.45
	846.5	20625	V	22.65	3.76	-3.09	**23.33**	38.45
			H	14.19	3.76	-3.09	14.87	38.45

BAND 5 / BW: 5M / 16QAM / RB: 1,24

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	21.01	3.76	-3.04	21.73	38.45
			H	13.73	3.76	-3.04	14.45	38.45
	836.5	20525	V	22.74	3.76	-3.07	**23.43**	38.45
			H	15.50	3.76	-3.07	16.19	38.45
	846.5	20625	V	22.57	3.77	-3.10	23.24	38.45
			H	13.94	3.77	-3.10	14.60	38.45

Remark：

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

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BAND 5 / BW: 10M / QPSK / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	20.74	3.76	-3.03	21.46	38.45
			H	13.26	3.75	-3.03	13.98	38.45
	836.5	20525	V	21.76	3.76	-3.05	**22.47**	38.45
			H	14.42	3.76	-3.05	15.13	38.45
	844.0	20600	V	21.54	3.76	-3.07	22.23	38.45
			H	13.64	3.76	-3.08	14.32	38.45

BAND 5 / BW: 10M / QPSK / RB: 1,49

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	20.76	3.76	-3.06	21.46	38.45
			H	13.22	3.76	-3.06	13.92	38.45
	836.5	20525	V	22.62	3.76	-3.08	**23.31**	38.45
			H	14.39	3.76	-3.08	15.07	38.45
	844.0	20600	V	22.03	3.77	-3.10	22.70	38.45
			H	13.33	3.77	-3.10	14.00	38.45

Remark：

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

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BAND 5 / BW: 10M /16QAM / RB: 1,0

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	21.30	3.75	-3.03	22.03	38.45
			H	13.49	3.75	-3.03	14.21	38.45
	836.5	20525	V	22.32	3.76	-3.05	23.02	38.45
			H	14.95	3.76	-3.05	15.66	38.45
	844.0	20600	V	22.86	3.76	-3.07	**23.55**	38.45
			H	14.51	3.76	-3.07	15.19	38.45

BAND 5 / BW: 10M / 16QAM / RB: 1,49

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	14.32	3.76	-3.06	15.03	38.45
			H	22.71	3.76	-3.08	**23.39**	38.45
	836.5	20525	V	14.62	3.76	-3.08	15.31	38.45
			H	22.57	3.77	-3.10	23.23	38.45
	844.0	20600	V	13.46	3.77	-3.11	14.12	38.45
			H	14.32	3.76	-3.06	15.03	38.45

Remark：

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

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BAND 7 / BW: 5M / QPSK / RB: 1,0

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	20.91	6.40	-5.48	**21.83**	33.01
			H	17.36	6.40	-5.48	18.28	33.01
	2535.0	21100	V	18.49	6.49	-5.52	19.45	33.01
			H	16.67	6.48	-5.52	17.63	33.01
	2567.5	21425	V	16.41	6.57	-5.57	17.42	33.01
			H	15.16	6.57	-5.57	16.16	33.01

BAND 7 / BW: 5M / QPSK / RB: 1,24

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: 1,24	2502.5	20775	V	21.55	6.41	-5.49	**22.47**	33.01
			H	18.22	6.41	-5.49	19.15	33.01
	2535.0	21100	V	17.92	6.50	-5.53	18.89	33.01
			H	17.02	6.50	-5.53	17.98	33.01
	2567.5	21425	V	14.82	6.58	-5.57	15.82	33.01
			H	15.05	6.58	-5.57	16.06	33.01

Remark：

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

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BAND 7 / BW: 5M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	2502.5	20775	V	21.15	6.40	-5.48	**22.07**	33.01
			H	17.62	6.40	-5.48	18.54	33.01
	2535.0	21100	V	18.87	6.49	-5.52	19.83	33.01
			H	17.02	6.48	-5.52	17.98	33.01
	2567.5	21425	V	16.75	6.57	-5.57	17.75	33.01
			H	15.51	6.57	-5.57	16.51	33.01

BAND 7 / BW: 5M / 16QAM / RB: 1,24

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 16QAM RB: 1,24	2502.5	20775	V	22.15	6.41	-5.49	**23.08**	33.01
			H	18.22	6.41	-5.49	19.15	33.01
	2535.0	21100	V	18.38	6.50	-5.53	19.35	33.01
			H	17.56	6.50	-5.53	18.52	33.01
	2567.5	21425	V	15.13	6.58	-5.57	16.14	33.01
			H	15.45	6.58	-5.57	16.46	33.01

Remark：

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

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BAND 7 / BW: 10M / QPSK / RB: 1,0

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	20.72	6.40	-5.48	**21.64**	33.01
			H	17.40	6.40	-5.48	18.32	33.01
	2535.0	21100	V	18.44	6.48	-5.52	19.40	33.01
			H	16.19	6.48	-5.52	17.15	33.01
	2565.0	21400	V	15.38	6.56	-5.56	16.38	33.01
			H	14.80	6.55	-5.56	15.80	33.01

BAND 7 / BW: 10M / QPSK / RB: 1,49

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: 1,49	2505.0	20800	V	20.85	6.42	-5.49	**21.78**	33.01
			H	17.36	6.42	-5.49	18.29	33.01
	2535.0	21100	V	17.99	6.50	-5.53	18.96	33.01
			H	16.78	6.50	-5.53	17.75	33.01
	2565.0	21400	V	11.40	6.58	-5.57	12.41	33.01
			H	15.35	6.58	-5.57	16.35	33.01

Remark：

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

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BAND 7 / BW: 10M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	2505.0	20800	V	21.65	6.40	-5.48	**22.57**	33.01
			H	18.13	6.40	-5.48	19.05	33.01
	2535.0	21100	V	19.08	6.48	-5.52	20.04	33.01
			H	16.74	6.48	-5.52	17.69	33.01
	2565.0	21400	V	15.91	6.56	-5.56	16.90	33.01
			H	14.80	6.56	-5.56	15.80	33.01

BAND 7 / BW: 10M / 16QAM / RB: 1,49

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 16QAM RB: 1,49	2505.0	20800	V	21.59	6.42	-5.49	**22.52**	33.01
			H	18.09	6.42	-5.49	19.03	33.01
	2535.0	21100	V	18.64	6.50	-5.53	19.61	33.01
			H	17.44	6.50	-5.53	18.41	33.01
	2565.0	21400	V	12.05	6.58	-5.57	13.05	33.01
			H	15.85	6.58	-5.57	16.86	33.01

Remark：

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

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BAND 7 / BW: 15M / QPSK / RB: 1,0

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	21.55	6.41	-5.48	**22.47**	33.01
			H	17.94	6.41	-5.48	18.86	33.01
	2535.0	21100	V	18.30	6.47	-5.52	19.25	33.01
			H	16.25	6.47	-5.52	17.20	33.01
	2562.5	21375	V	17.36	6.54	-5.55	18.35	33.01
			H	14.89	6.54	-5.55	15.87	33.01

BAND 7 / BW: 15M / QPSK / RB: 1,74

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: 1,74	2507.5	20825	V	18.89	6.44	-5.50	**19.83**	33.01
			H	15.87	6.44	-5.50	16.81	33.01
	2535.0	21100	V	17.71	6.51	-5.54	18.68	33.01
			H	15.72	6.51	-5.54	16.69	33.01
	2562.5	21375	V	14.88	6.58	-5.57	15.89	33.01
			H	15.11	6.58	-5.57	16.12	33.01

Remark：

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

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BAND 7 / BW: 15M / 16QAM / RB: 1,0

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 16QAM RB: 1,0	2507.5	20825	V	22.17	6.41	-5.48	**23.10**	33.01
			H	18.59	6.41	-5.48	19.51	33.01
	2535.0	21100	V	18.93	6.47	-5.52	19.88	33.01
			H	16.81	6.48	-5.52	17.76	33.01
	2562.5	21375	V	18.06	6.54	-5.55	19.05	33.01
			H	15.52	6.55	-5.56	16.51	33.01

BAND 7 / BW: 15M / 16QAM / RB: 1,74

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 16QAM RB: 1,74	2507.5	20825	V	19.58	6.44	-5.50	**20.52**	33.01
			H	16.52	6.45	-5.50	17.46	33.01
	2535.0	21100	V	18.41	6.51	-5.54	19.38	33.01
			H	16.45	6.51	-5.54	17.42	33.01
	2562.5	21375	V	15.41	6.58	-5.57	16.42	33.01
			H	15.61	6.58	-5.57	16.61	33.01

Remark：

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

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BAND 7 / BW: 20M / QPSK / RB: 1,0

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	21.14	6.40	-5.48	**22.06**	33.01
			H	17.67	6.40	-5.48	18.59	33.01
	2535.0	21100	V	17.91	6.47	-5.51	18.86	33.01
			H	15.05	6.47	-5.52	16.00	33.01
	2560.0	21350	V	18.29	6.53	-5.55	19.28	33.01
			H	14.45	6.53	-5.55	15.44	33.01

BAND 7 / BW: 20M / QPSK / RB: 1,99

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: 1,99	2510.0	20850	V	18.26	6.45	-5.51	19.21	33.01
			H	15.34	6.45	-5.51	16.29	33.01
	2535.0	21100	V	18.47	6.51	-5.54	**19.44**	33.01
			H	15.98	6.51	-5.54	16.95	33.01
	2560.0	21350	V	15.00	6.58	-5.57	16.00	33.01
			H	15.34	6.58	-5.57	16.35	33.01

Remark：

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

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BAND 7 / BW: 20M /16QAM / RB: 1,0

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 16QAM RB: 1,0	2510.0	20850	V	21.87	6.40	-5.48	**22.79**	33.01
			H	19.40	6.40	-5.48	20.32	33.01
	2535.0	21100	V	18.54	6.47	-5.52	19.49	33.01
			H	15.50	6.47	-5.51	16.45	33.01
	2560.0	21350	V	19.10	6.53	-5.55	20.09	33.01
			H	15.24	6.53	-5.55	16.22	33.01

BAND 7 / BW: 20M / 16QAM / RB: 1,99

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 16QAM RB: 1,99	2510.0	20850	V	19.03	6.45	-5.50	19.97	33.01
			H	17.36	6.45	-5.51	18.31	33.01
	2535.0	21100	V	19.22	6.51	-5.54	**20.20**	33.01
			H	16.73	6.51	-5.54	17.70	33.01
	2560.0	21350	V	15.47	6.58	-5.57	16.48	33.01
			H	15.84	6.58	-5.57	16.84	33.01

Remark：

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

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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 20dB BW is arrow-mark

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Refer to next pages.

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99% Bandwidth

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	**0.252**
	836.60	190	0.249
	848.80	251	0.247

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	**0.251**
	1880.00	661	0.243
	1909.80	810	0.247

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.245
	836.60	190	**0.248**
	848.80	251	0.244

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.243
	1880.00	661	0.245
	1909.80	810	**0.253**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.246
	836.60	190	0.252
	848.80	251	**0.259**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	**0.253**
	1880.00	661	0.252
	1909.80	810	0.248

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.2085
	1880.00	9400	4.2095
	1907.60	9538	**4.2120**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.2127
	1732.60	1413	4.1999
	1752.60	1513	**4.2239**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	**4.2052**
	836.00	4183	4.1969
	846.60	4233	4.1644

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.1918
	1880.00	9400	4.2022
	1907.60	9538	**4.2069**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	**4.2118**
	1732.60	1413	4.1892
	1752.60	1513	4.2059

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1952
	836.60	4183	**4.2117**
	846.60	4233	4.2010

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.40	9262	4.2120
	1880.00	9400	4.1841
	1907.60	9538	**4.2069**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.1940
	1732.60	1413	**4.2223**
	1752.60	1513	4.1956

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1930
	836.60	4183	**4.2240**
	846.60	4233	4.1940

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0)	1850.7	18607	1.0967
	1880.0	18900	1.0959
	1909.3	19193	**1.0974**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 2 (16QAM RB Number: 6 Offset: 0)	1850.7	18607	**1.0959**
	1880.0	18900	1.0922
	1909.3	19193	1.0959

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0)	1851.5	18615	2.6881
	1880.0	18900	**2.7125**
	1908.5	19185	2.7020

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 2 (16QAM RB Number: 15 Offset: 0)	1851.5	18615	**2.7064**
	1880.0	18900	2.7002
	1908.5	19185	2.6931

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0)	1852.5	18625	**4.5290**
	1880.0	18900	4.5219
	1907.5	19175	4.5135

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 2 (16QAM RB Number: 25 Offset: 0)	1852.5	18625	4.5159
	1880.0	18900	4.5261
	1907.5	19175	**4.5272**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0)	1855.0	18650	9.0009
	1880.0	18900	8.9713
	1905.0	19150	**9.0105**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 2 (16QAM RB Number: 50 Offset: 0)	1855.0	18650	**9.0163**
	1880.0	18900	8.9754
	1905.0	19150	8.9892

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0)	1857.5	18675	13.4658
	1880.0	18900	13.4571
	1902.5	19125	**13.5199**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 2 (16QAM RB Number: 75 Offset: 0)	1857.5	18675	**13.4929**
	1880.0	18900	13.4214
	1902.5	19125	13.4747

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0)	1860.0	18700	17.9487
	1880.0	18900	17.9349
	1900.0	19100	**18.0124**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 2 (16QAM RB Number: 100 Offset: 0)	1860.0	18700	17.9365
	1880.0	18900	17.9117
	1900.0	19100	**17.9801**

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0)	1710.7	19957	1.0945
	1732.5	20175	**1.0945**
	1754.3	20393	1.0941

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (16QAM RB Number: 6 Offset: 0)	1710.7	19957	1.1002
	1732.5	20175	1.0989
	1754.3	20393	**1.1012**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0)	1711.5	19965	2.7068
	1732.5	20175	**2.7094**
	1753.5	20385	2.6975

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (16QAM RB Number: 15 Offset: 0)	1711.5	19965	2.7093
	1732.5	20175	**2.7114**
	1753.5	20385	2.6984

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0)	1710.7	19957	**4.5062**
	1732.5	20175	4.5106
	1752.5	20375	4.5175

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 4 (16QAM RB Number: 25 Offset: 0)	1710.7	19957	4.5065
	1732.5	20175	**4.5266**
	1752.5	20375	4.5010

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0)	1715.0	20000	8.9472
	1732.5	20175	**8.9980**
	1750.0	20350	8.9949

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (16QAM RB Number: 50 Offset: 0)	1715.0	20000	**8.9654**
	1732.5	20175	8.9556
	1750.0	20350	8.9726

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0)	1717.5	20025	13.4740
	1732.5	20175	**13.4952**
	1747.5	20325	13.4674

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 4 (16QAM RB Number: 75 Offset: 0)	1717.5	20025	13.4512
	1732.5	20175	**13.4831**
	1747.5	20325	13.4400

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0)	1720.0	20050	17.8812
	1732.5	20175	**17.9853**
	1745.0	20300	17.8978

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 4 (16QAM RB Number: 100 Offset: 0)	1720.0	20050	17.8856
	1732.5	20175	**17.9791**
	1745.0	20300	17.9680

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0)	824.7	20407	1.0934
	836.5	20525	1.1023
	848.3	20643	**1.0966**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 5 (16QAM RB Number: 6 Offset: 0)	824.7	20407	1.0898
	836.5	20525	1.0995
	848.3	20643	**1.1004**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0)	825.5	20415	2.7000
	836.5	20525	2.7085
	847.5	20635	**2.7104**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 5 (16QAM RB Number: 15 Offset: 0)	825.5	20415	2.6964
	836.5	20525	2.7025
	847.5	20635	**2.7054**

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0)	826.5	20425	4.5204
	836.5	20525	**4.5341**
	846.5	20625	4.5267

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 5 (16QAM RB Number: 25 Offset: 0)	826.5	20425	4.5293
	836.5	20525	**4.5357**
	846.5	20625	4.5090

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0)	829.0	20450	8.9563
	836.5	20525	**9.0151**
	844.0	20600	8.9551

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 5 (16QAM RB Number: 50 Offset: 0)	829.0	20450	8.9566
	836.5	20525	**9.0458**
	844.0	20600	8.9524

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0)	2502.5	20775	4.5324
	2535.0	21100	4.5092
	2567.5	21425	**4.5351**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 7 (16QAM RB Number: 25 Offset: 0)	2502.5	20775	**4.5344**
	2535.0	21100	4.5137
	2567.5	21425	4.5208

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0)	2505.0	20800	8.9703
	2535.0	21100	8.9709
	2565.0	21400	**8.9812**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0)	2505.0	20800	8.9705
	2535.0	21100	8.9778
	2565.0	21400	**8.9894**

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0)	2507.5	20825	13.4803
	2535.0	21100	**13.4923**
	2562.5	21375	13.4595

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0)	2507.5	20825	13.4560
	2535.0	21100	13.4508
	2562.5	21375	**13.4576**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0)	2510.0	20850	17.9166
	2535.0	21100	**17.9380**
	2560.0	21350	17.9306

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0)	2510.0	20850	17.9778
	2535.0	21100	17.9760
	2560.0	21350	**18.0127**

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99% Bandwidth Test Data

Figure 8-1: GSM 850 Channel Low

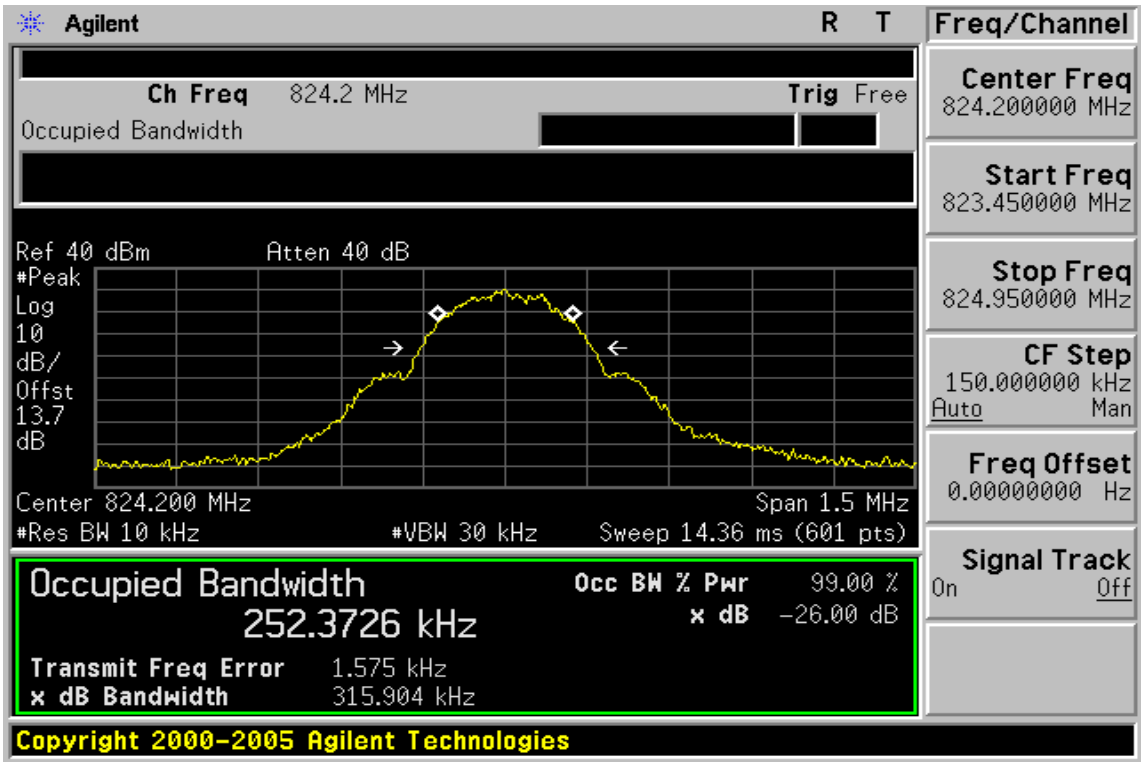

Figure 8-2: GSM 850 Channel Mid

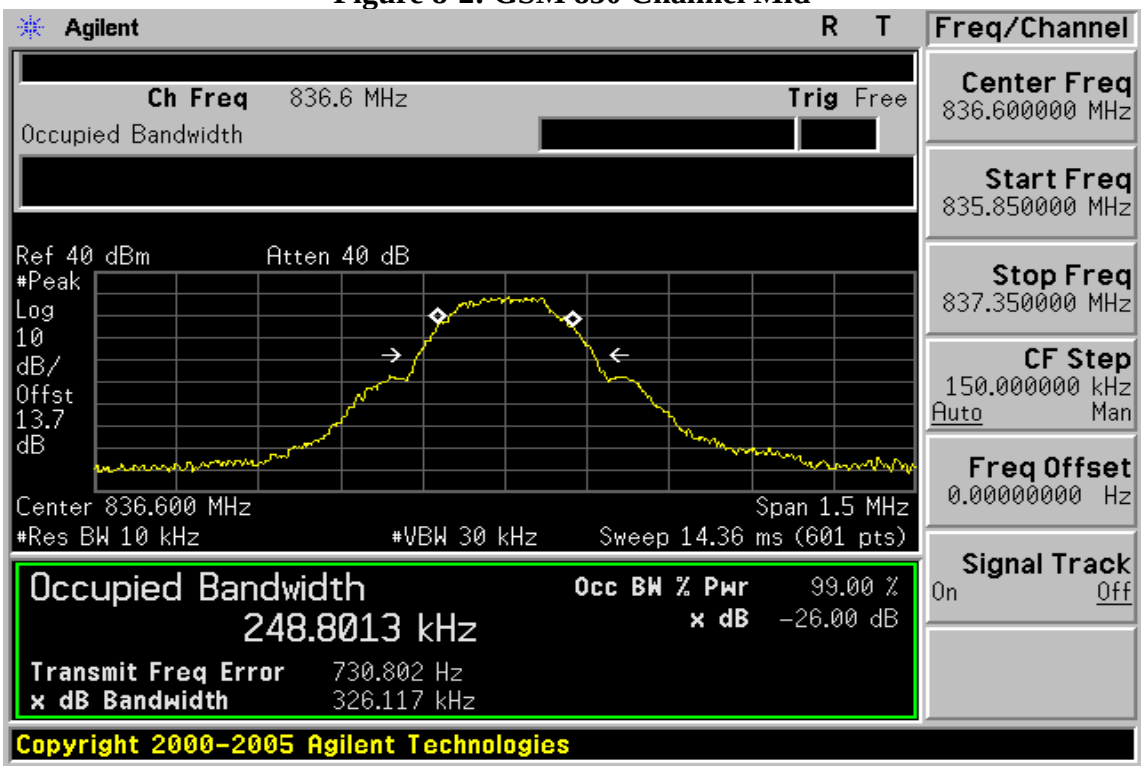

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Figure 8-3: GSM 850 Channel High

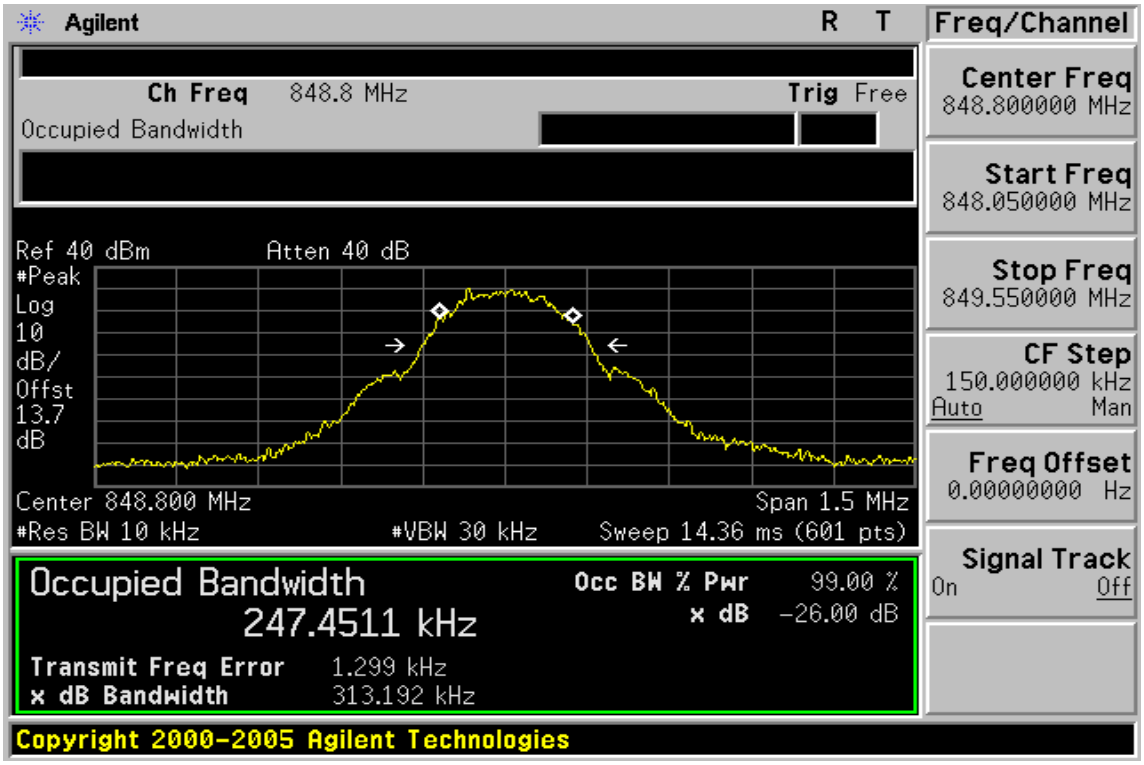

Figure 8-4: GSM 1900 Channel Low

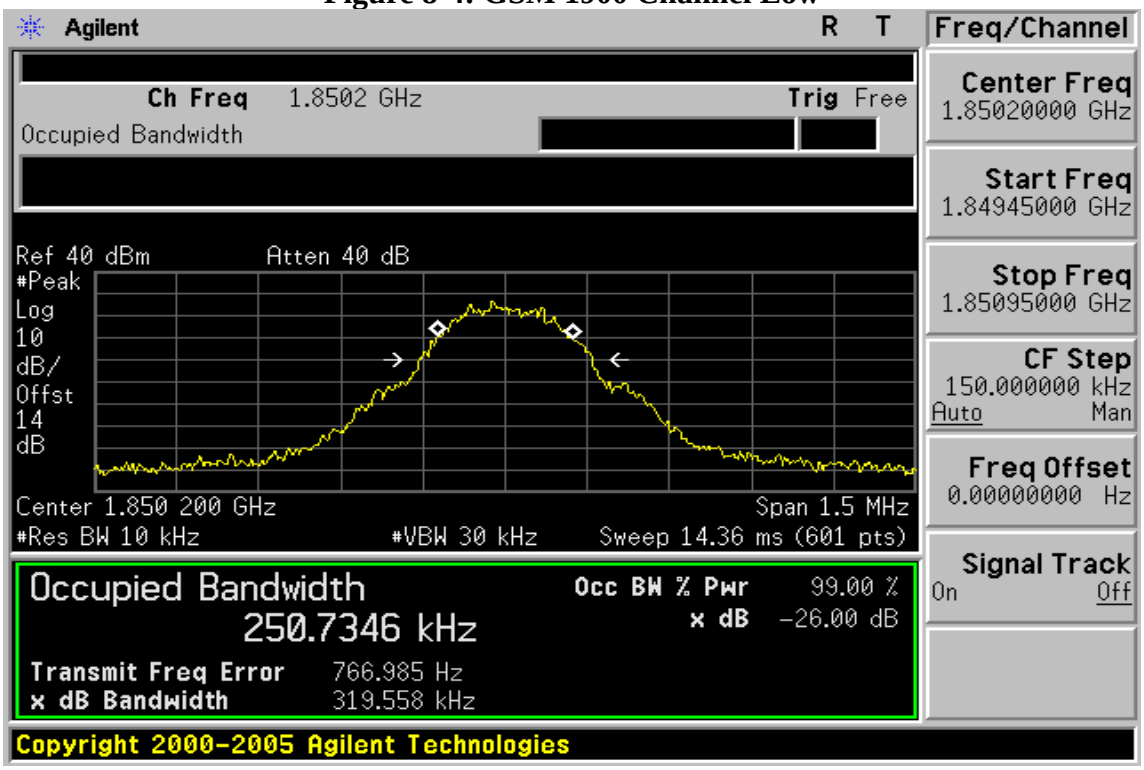

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Figure 8-5: GSM 1900 Channel Mid

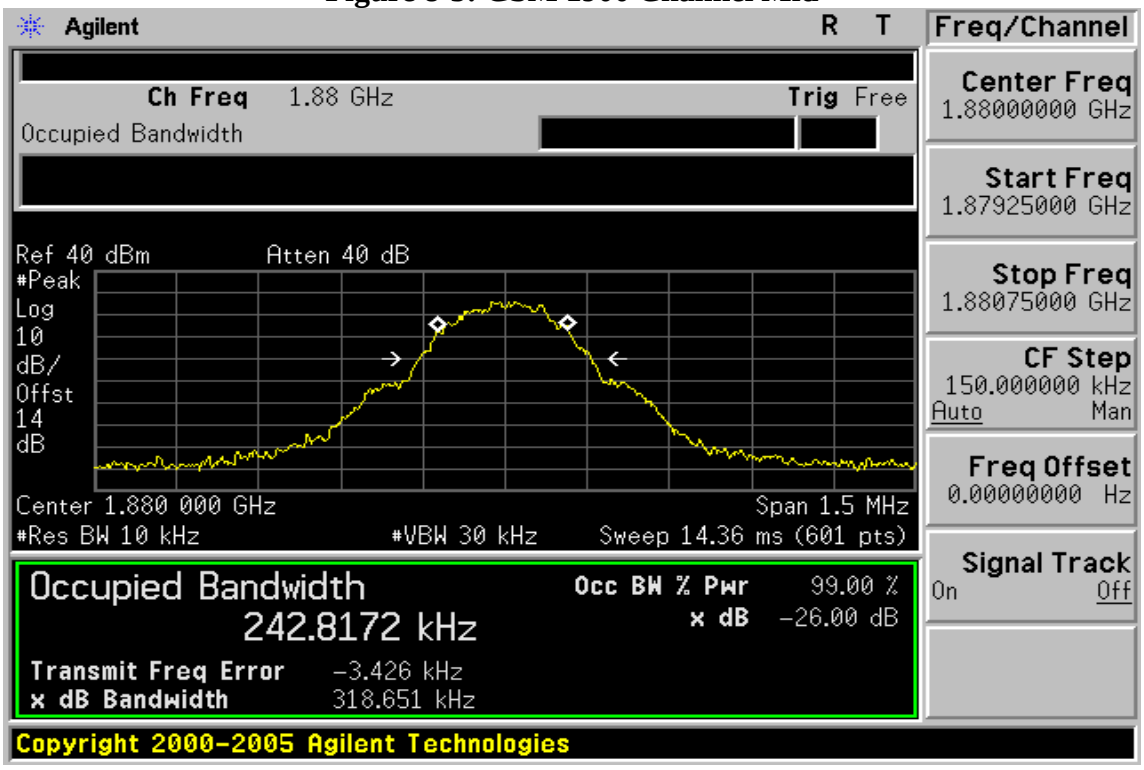

Figure 8-6: GSM 1900 Channel High

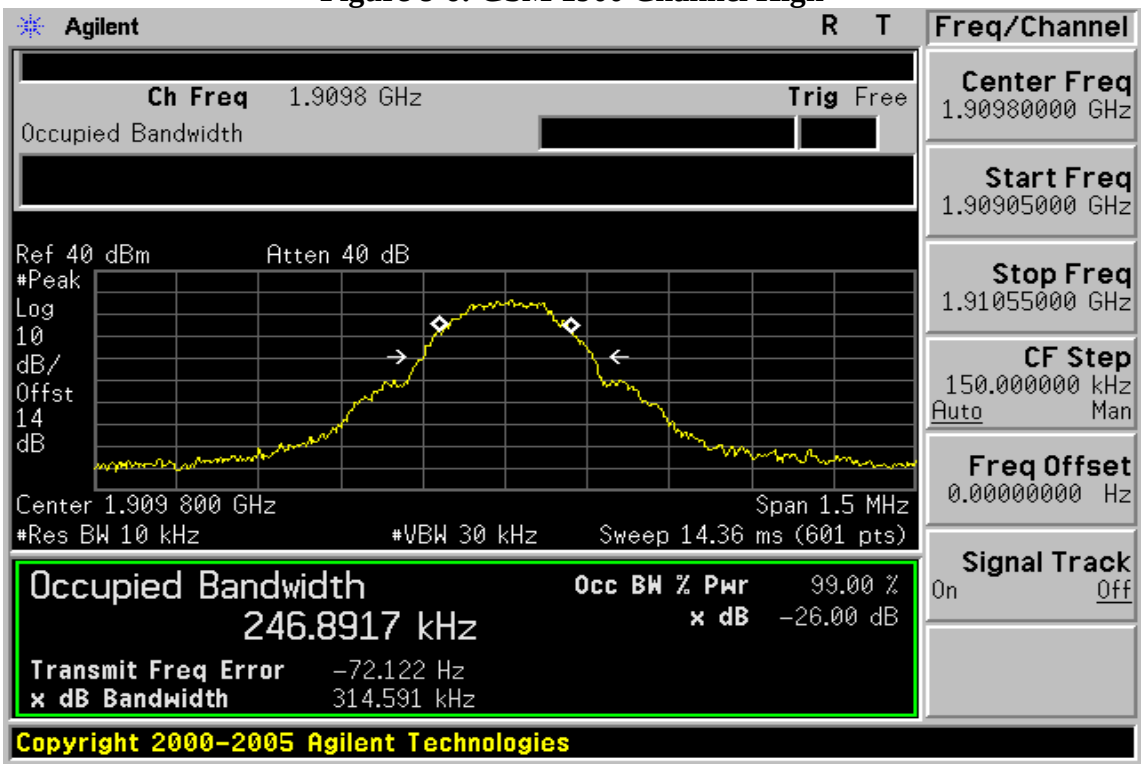

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Figure 8-7: GPRS 850 Channel Low

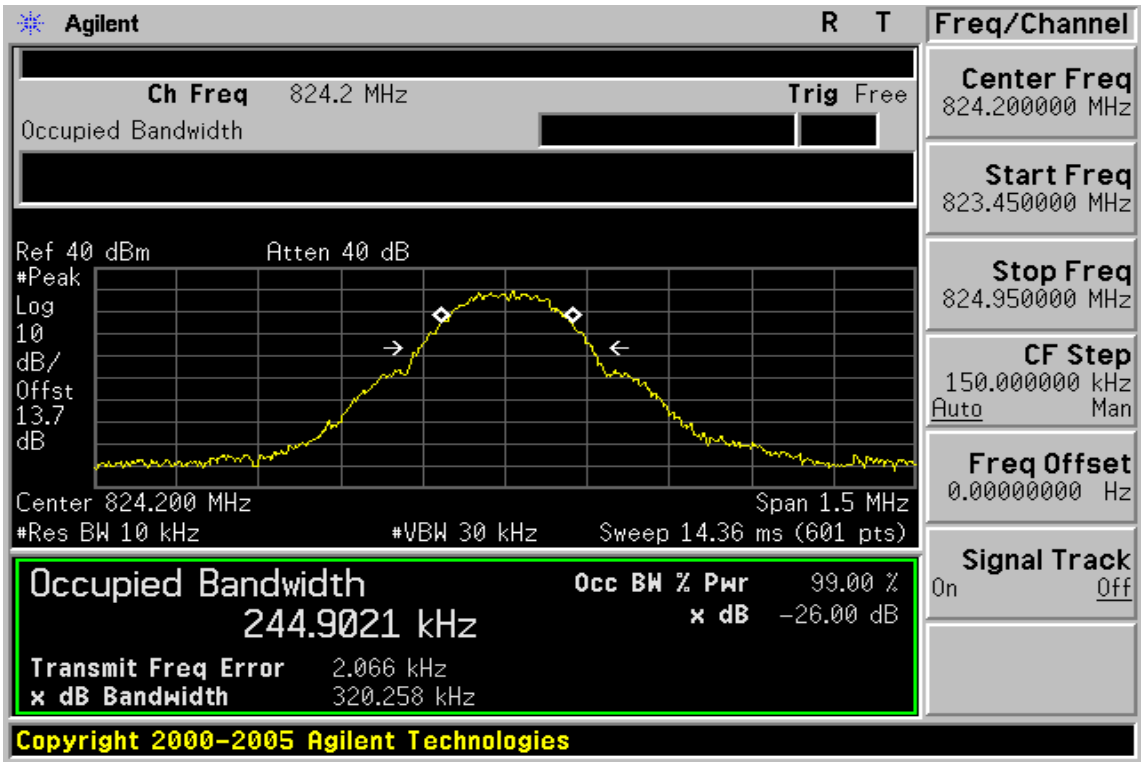

Figure 8-8: GPRS 850 Channel Mid

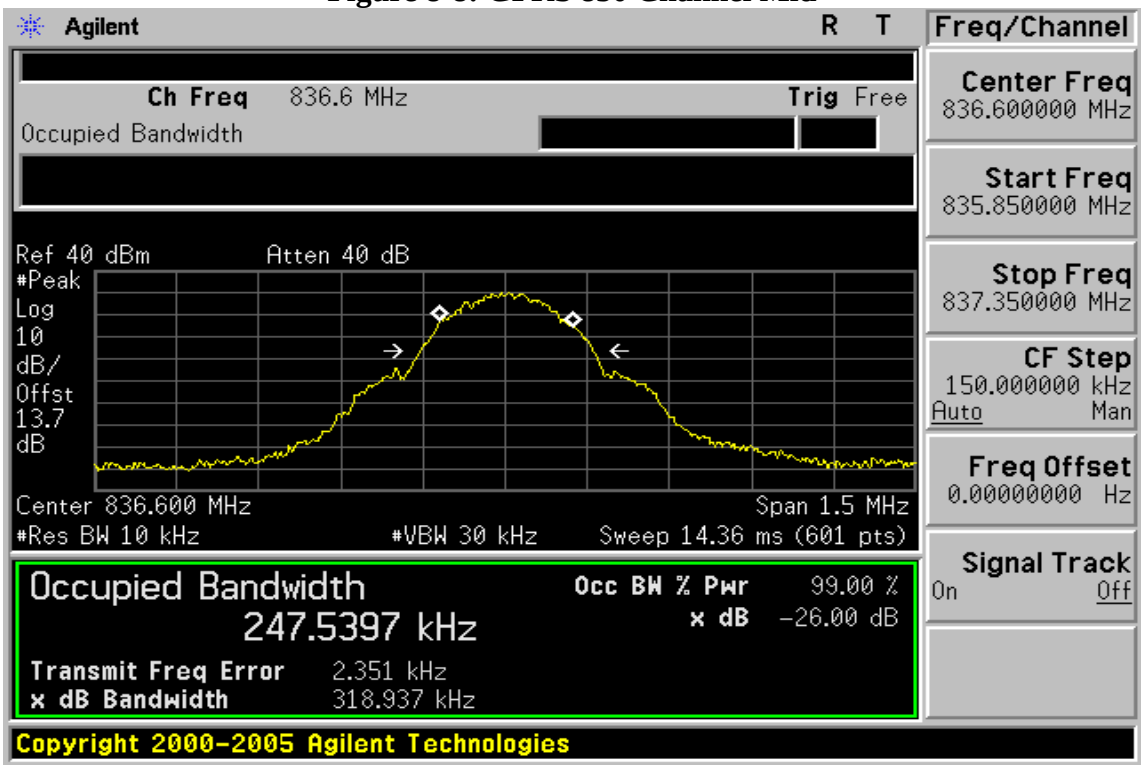

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Figure 8-9: GPRS 850 Channel High

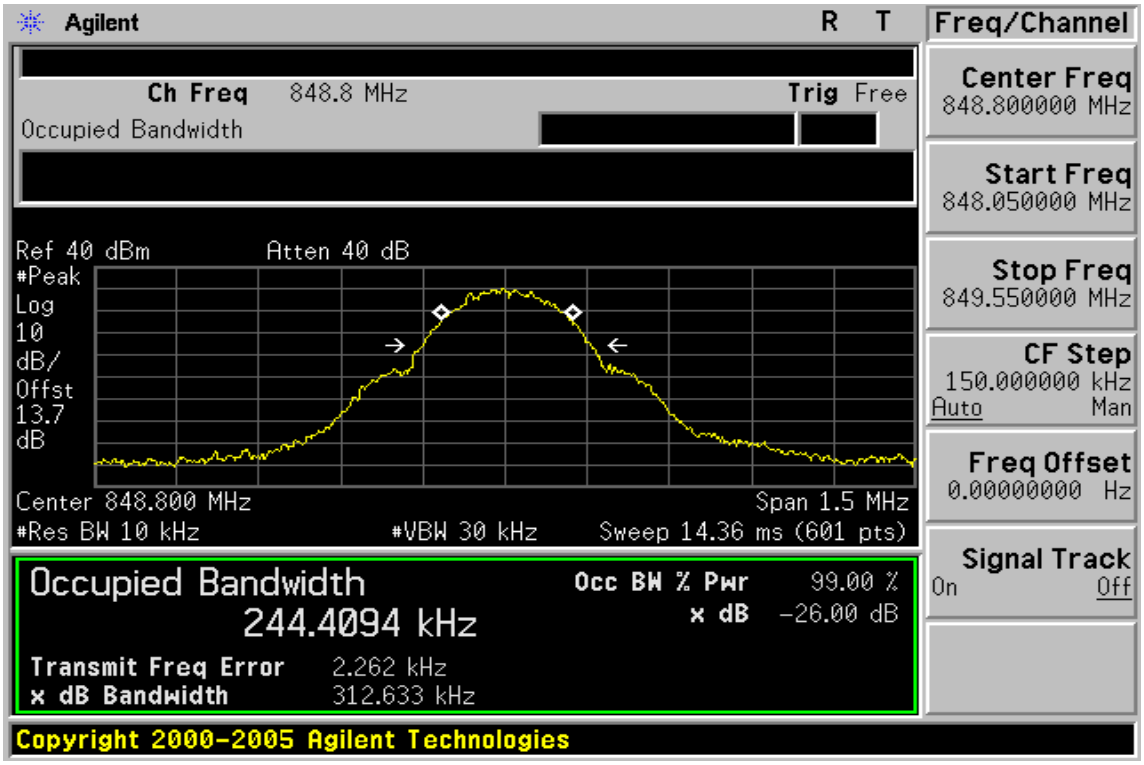

Figure 8-10: GPRS 1900 Channel Low

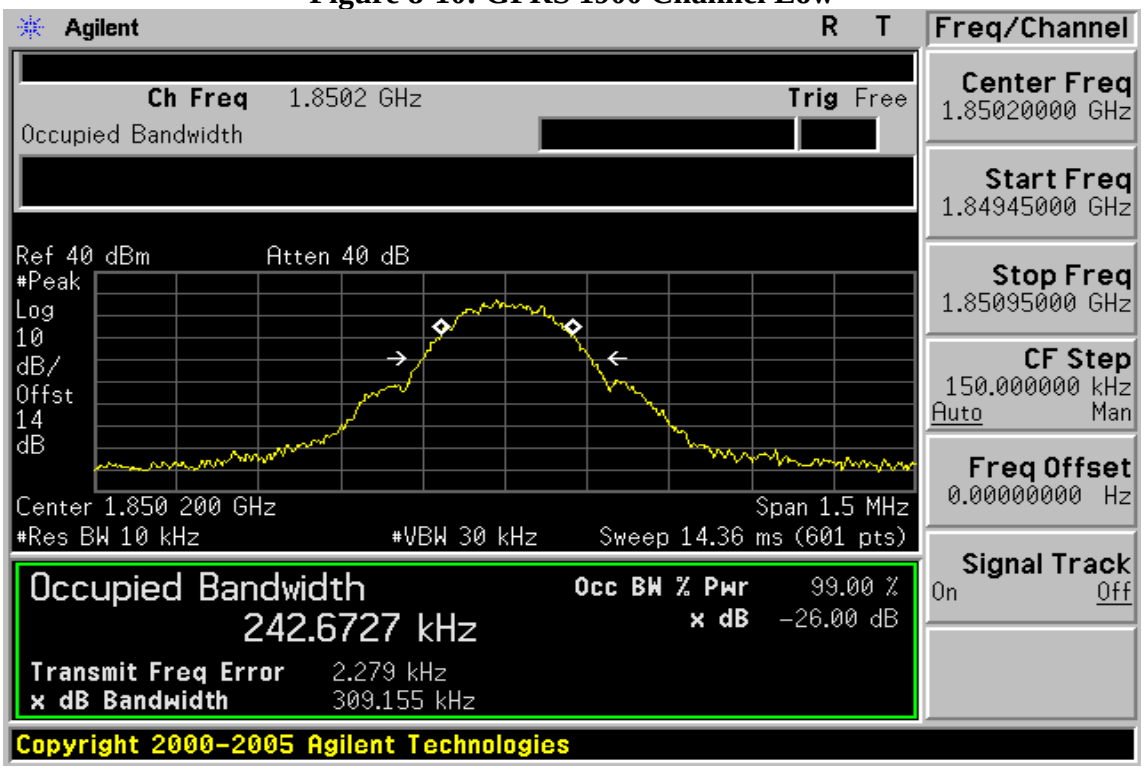

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Figure 8-11: GPRS 1900 Channel Mid

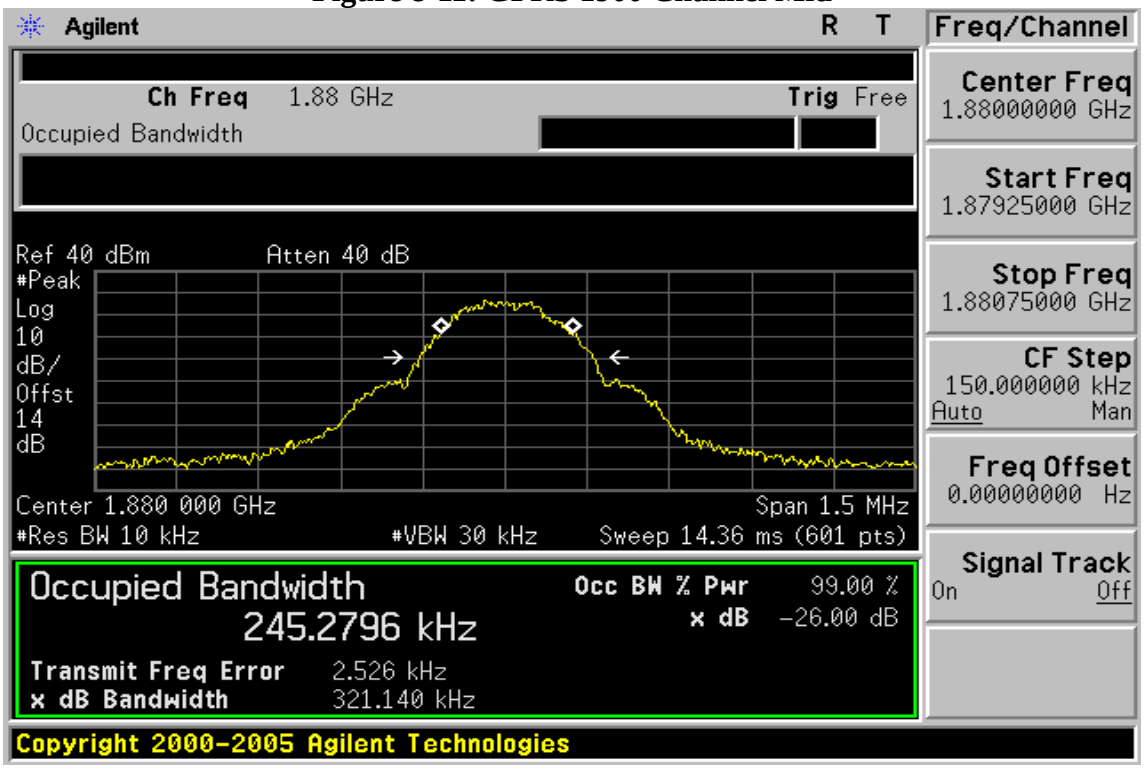

Figure 8-12: GPRS 1900 Channel High

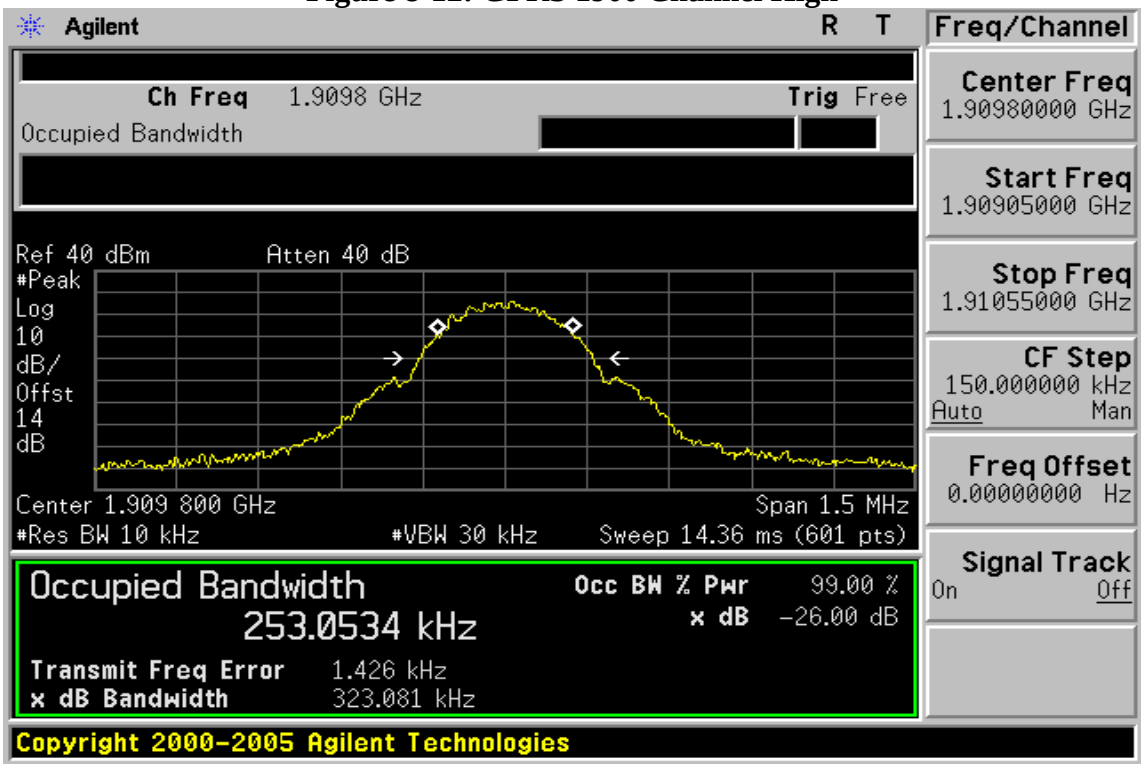

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Figure 8-13: EDGE 850 Channel Low

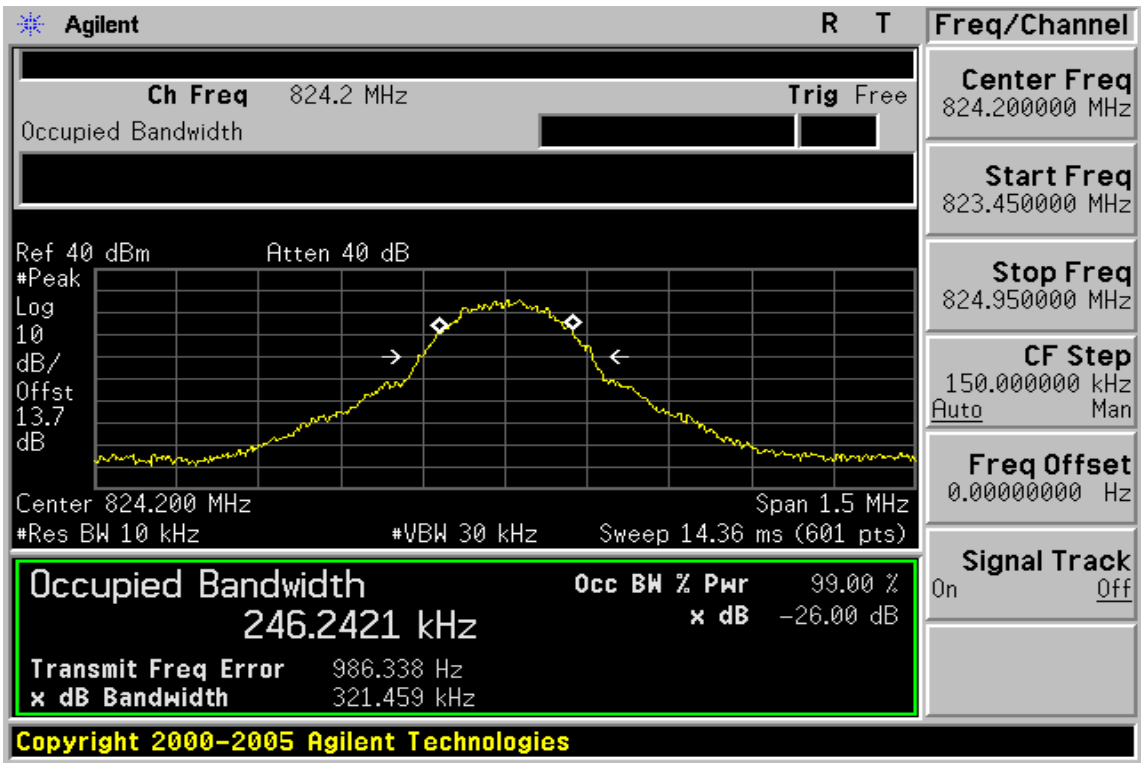

Figure 8-14: EDGE 850 Channel Mid

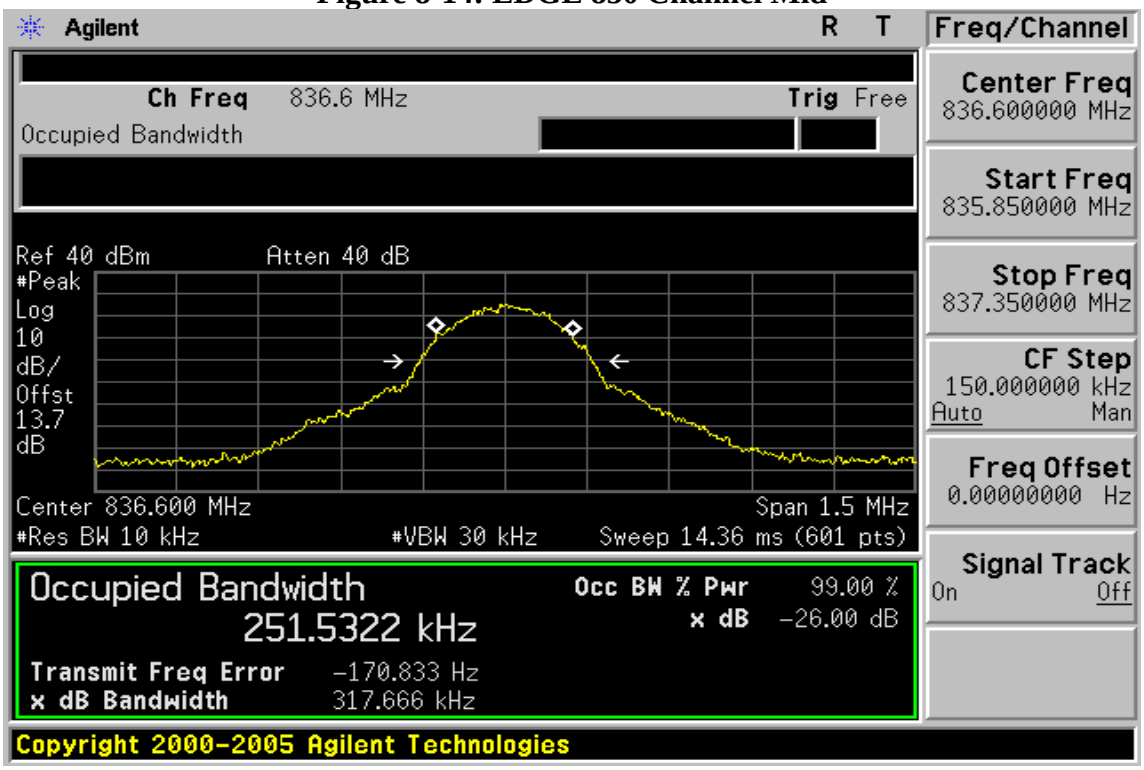

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Figure 8-15: EDGE 850 Channel High

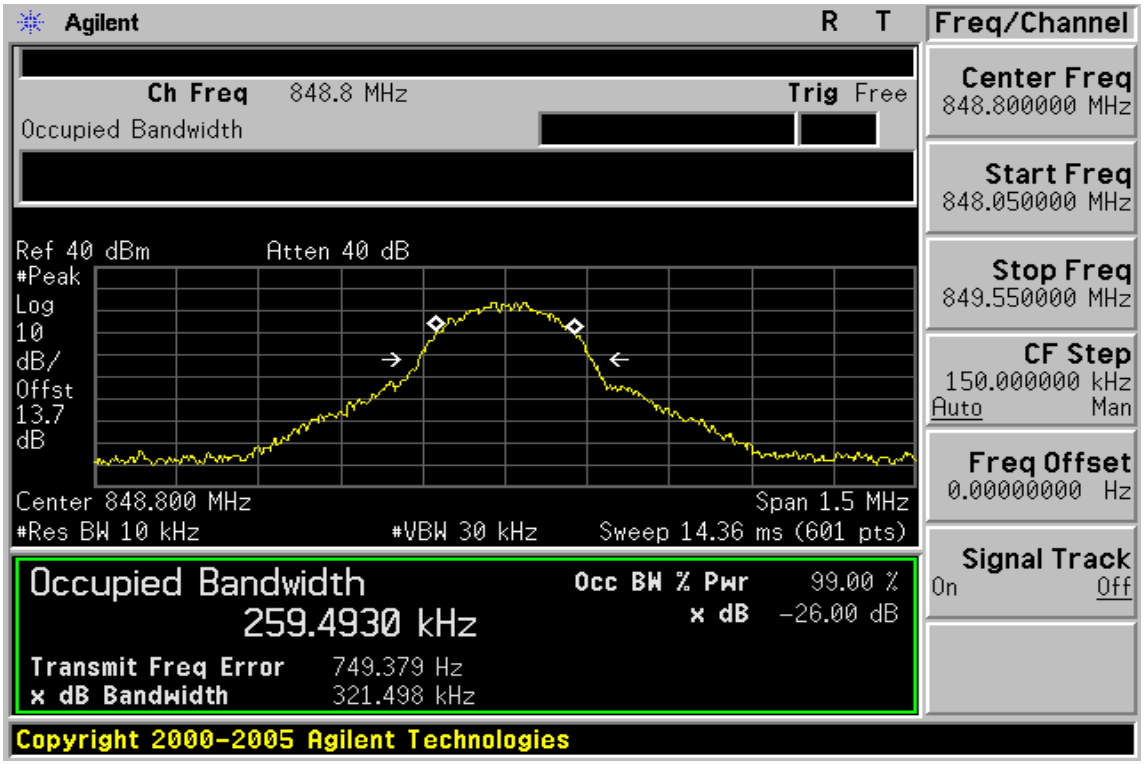

Figure 8-16: EDGE 1900 Channel Low

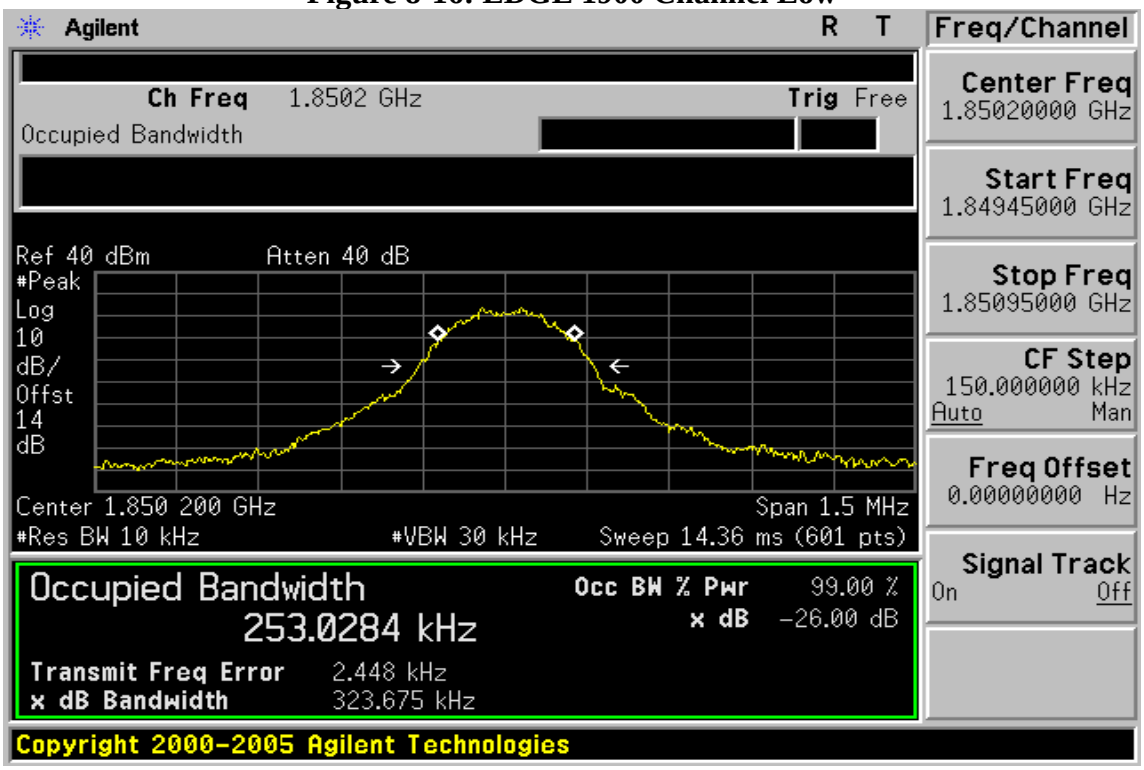

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Figure 8-17: EDGE 1900 Channel Mid

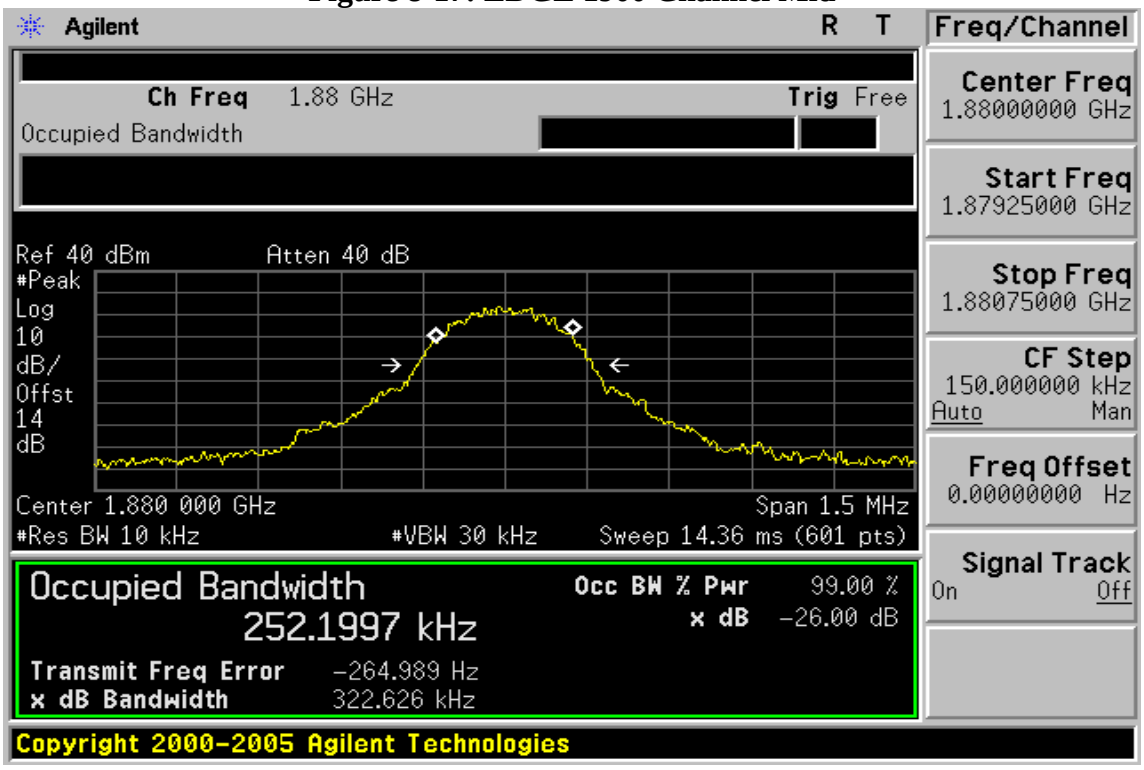

Figure 8-18: EDGE 1900 Channel High

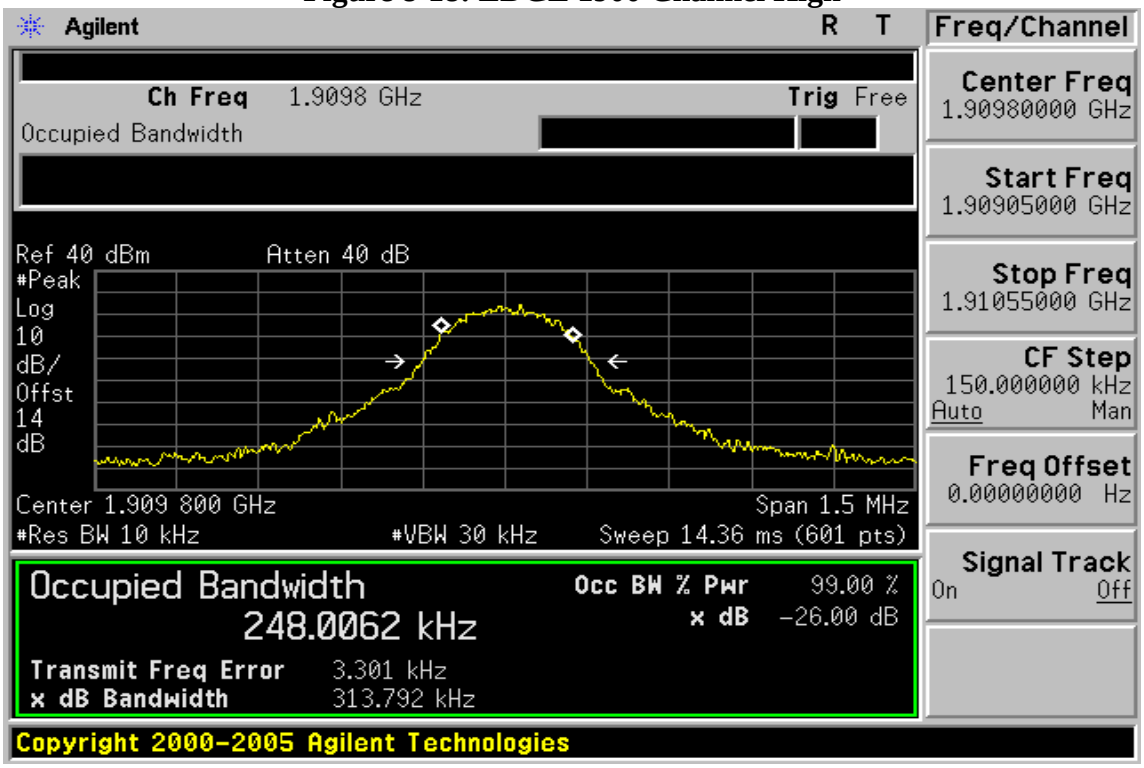

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Figure 8-19: WCDMA II Channel Low

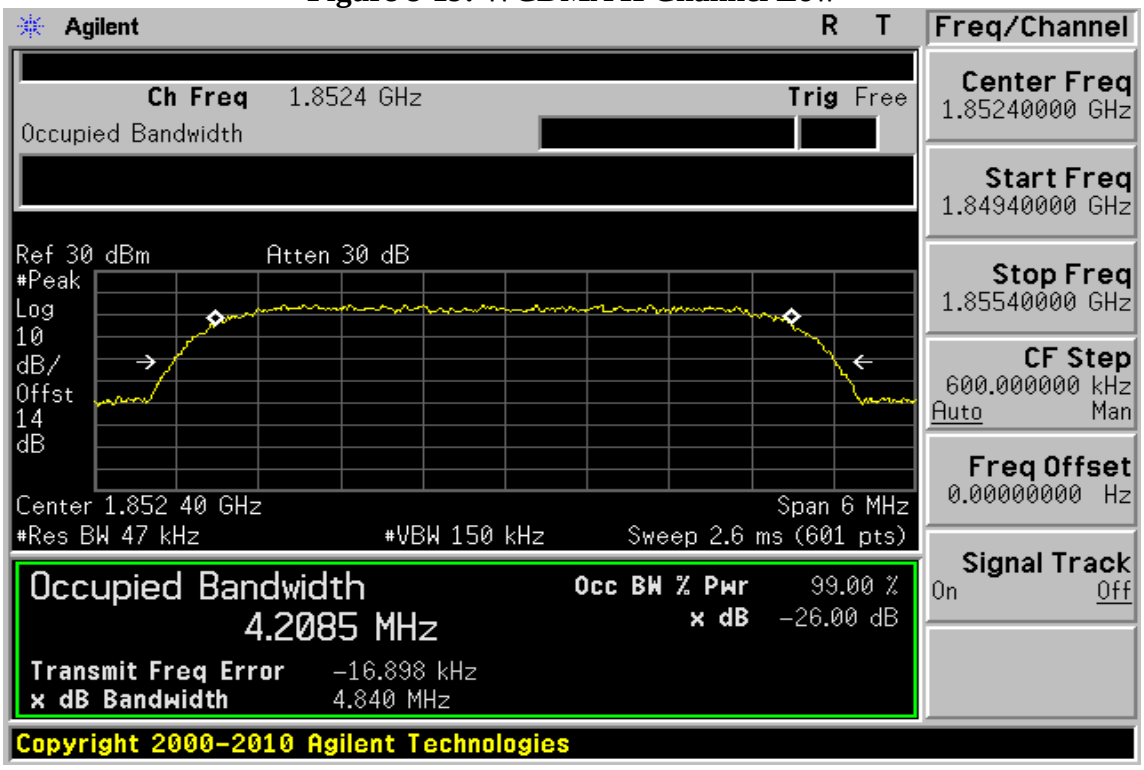

Figure 8-20: WCDMA II Channel Mid

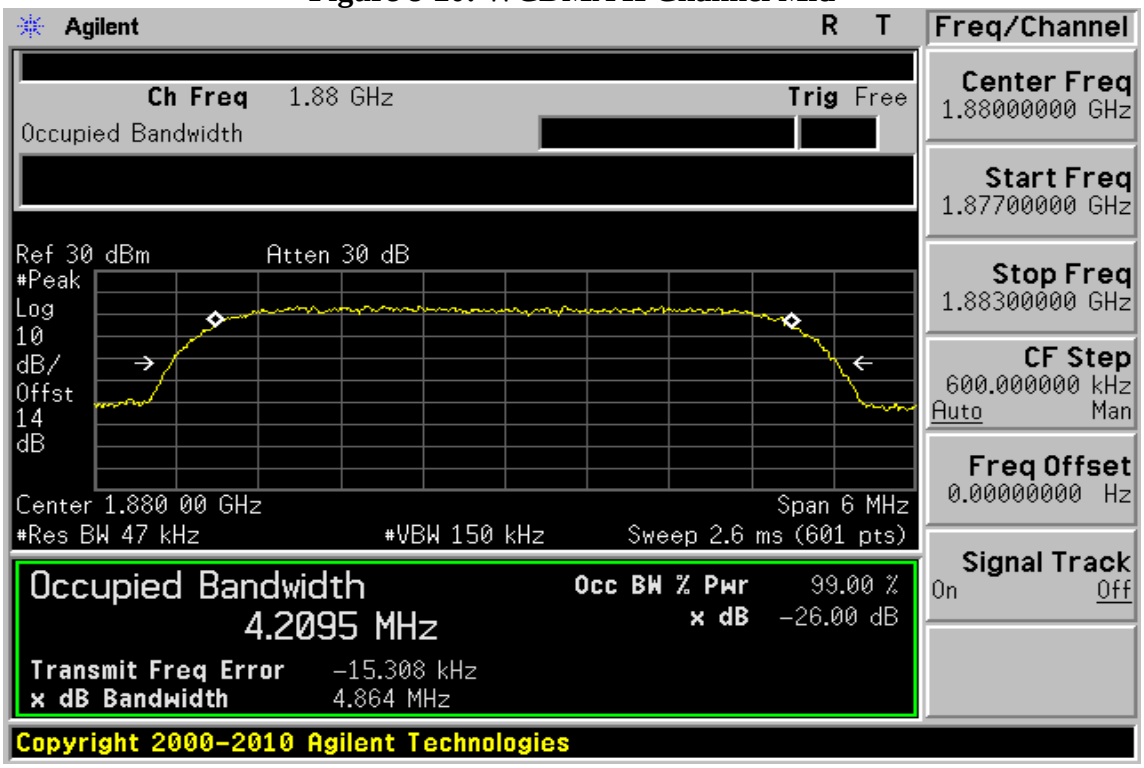

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Figure 8-21: WCDMA II Channel High

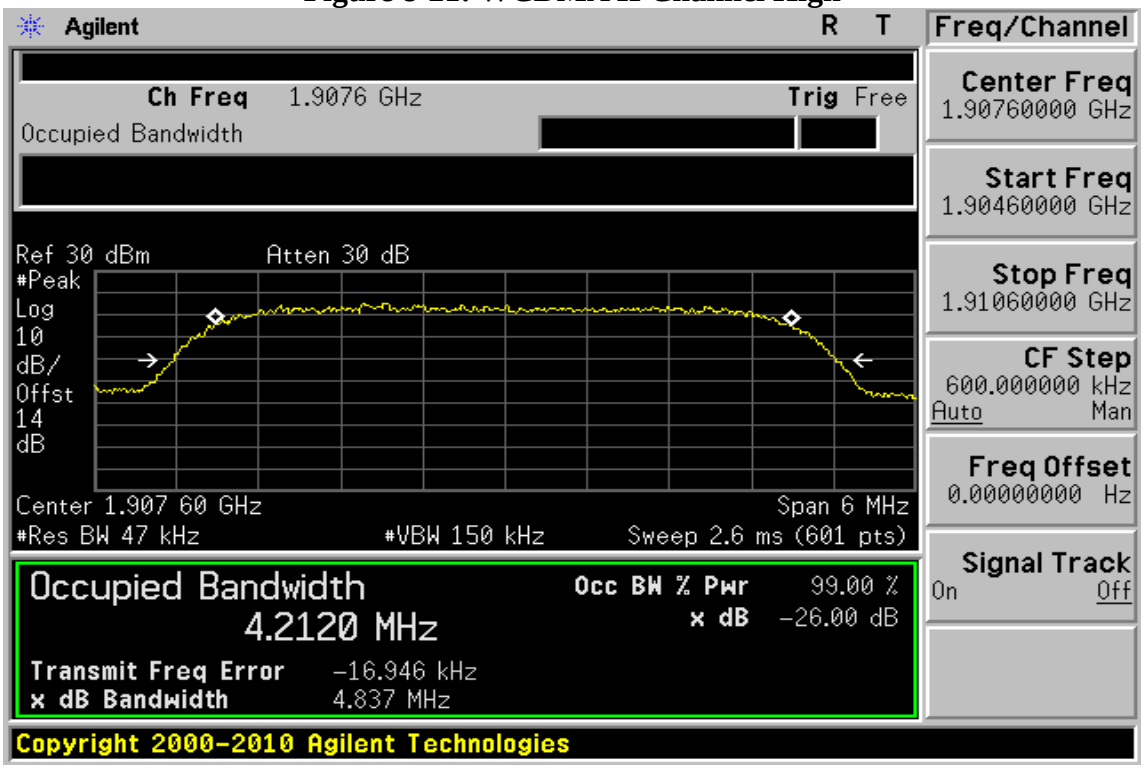

Figure 8-22: WCDMA IV Channel Low

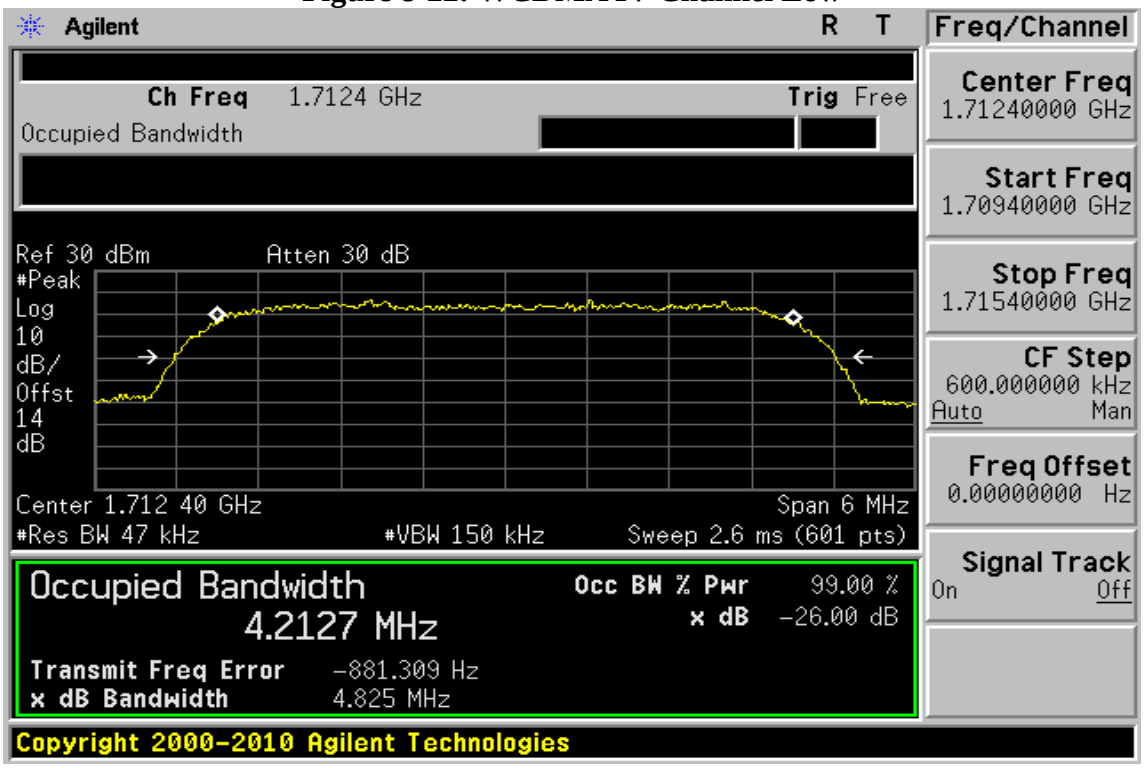

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Figure 8-23: WCDMA IV Channel Mid

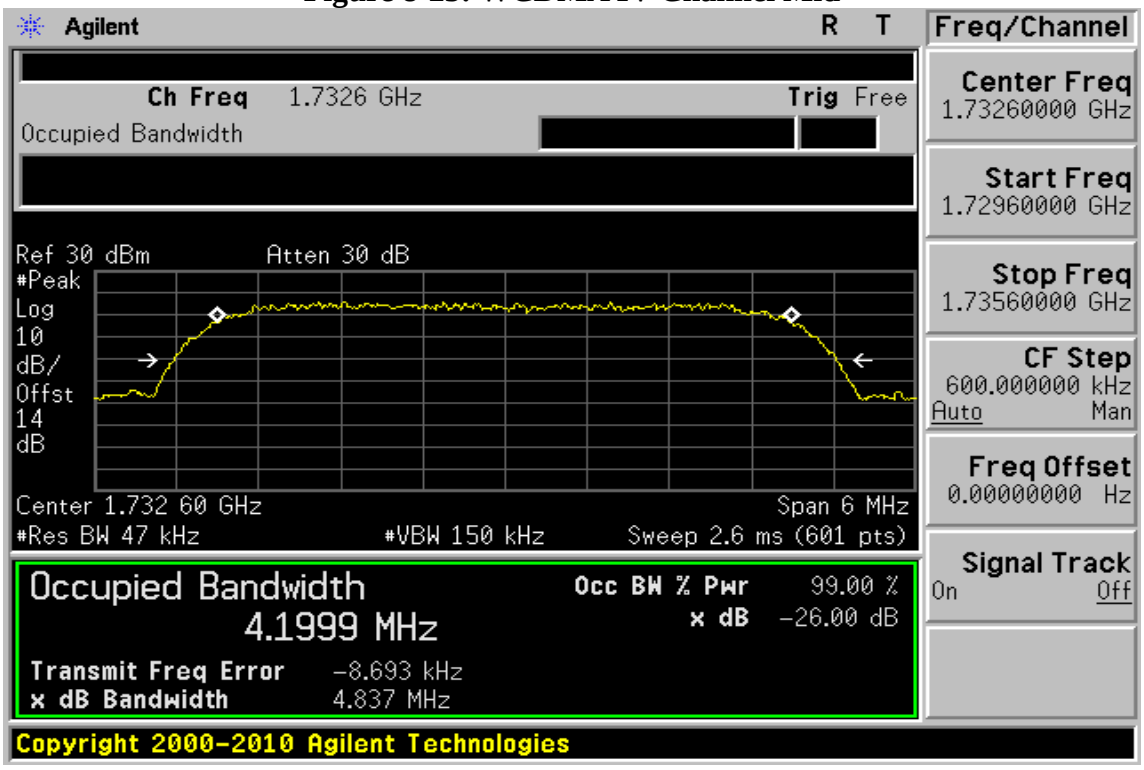

Figure 8-24: WCDMA IV Channel High

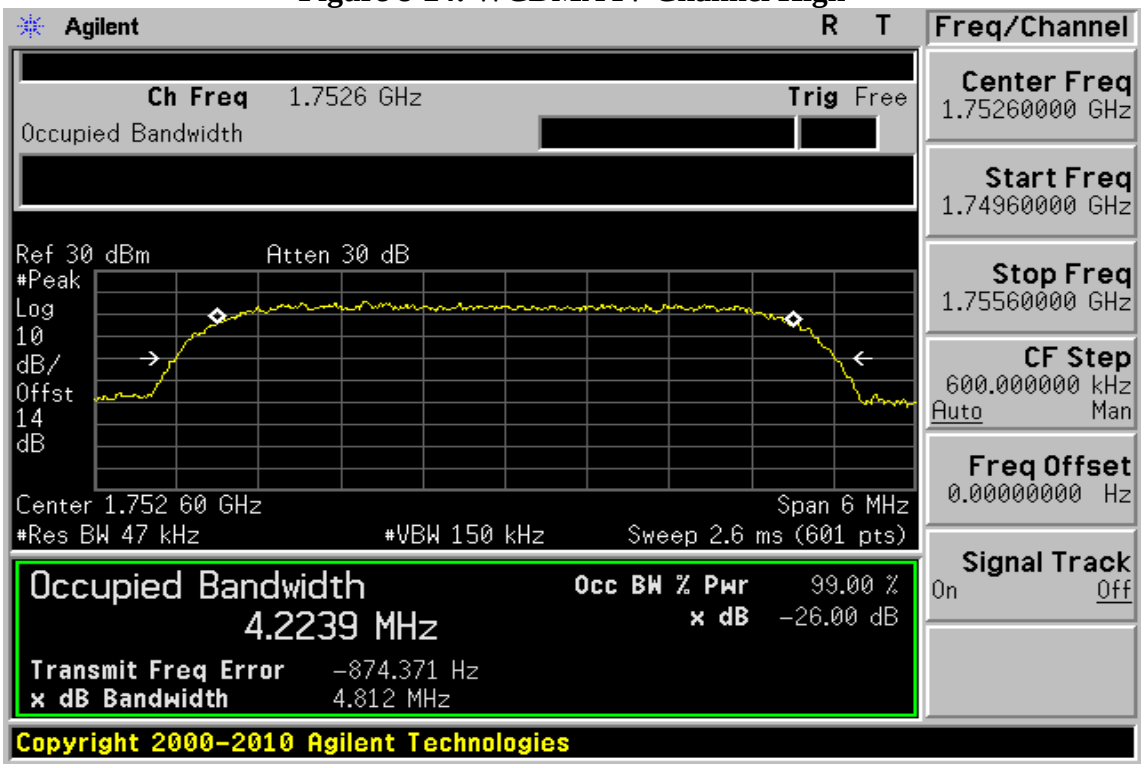

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Figure 8-25: WCDMA V Channel Low

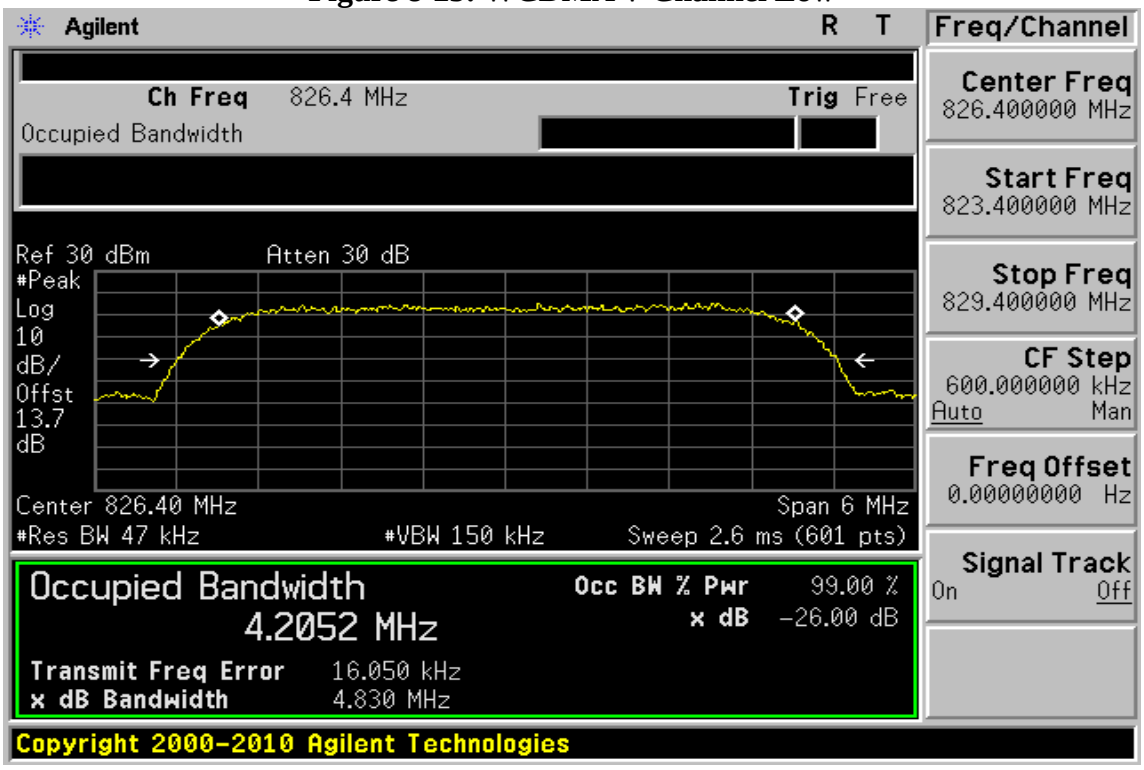

Figure 8-26: WCDMA V Channel Mid

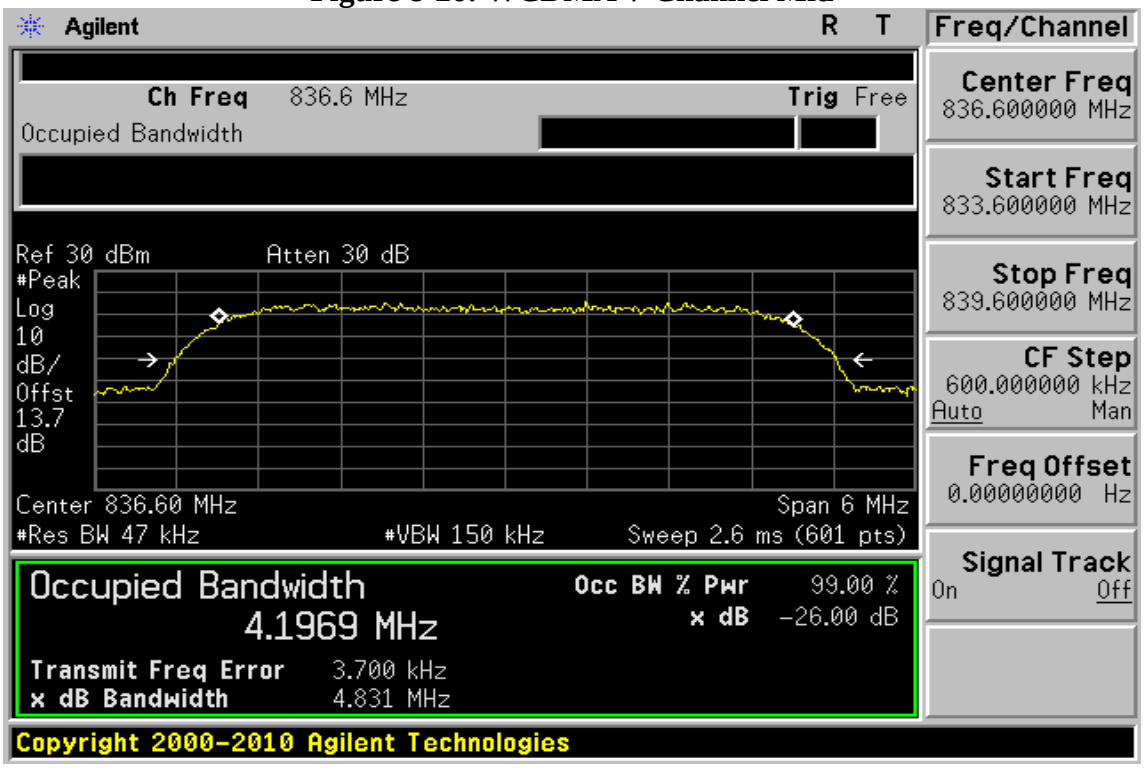

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Figure 8-27: WCDMA V Channel High

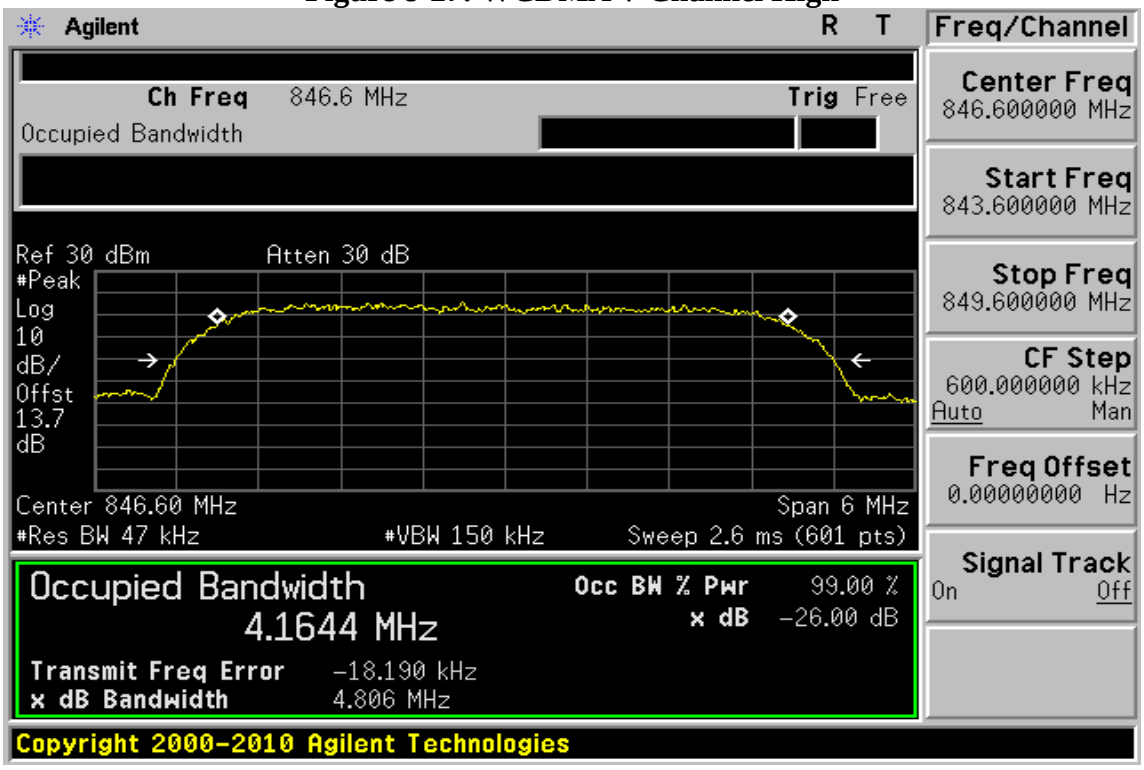

Figure 8-28: HSDPA II Channel Low

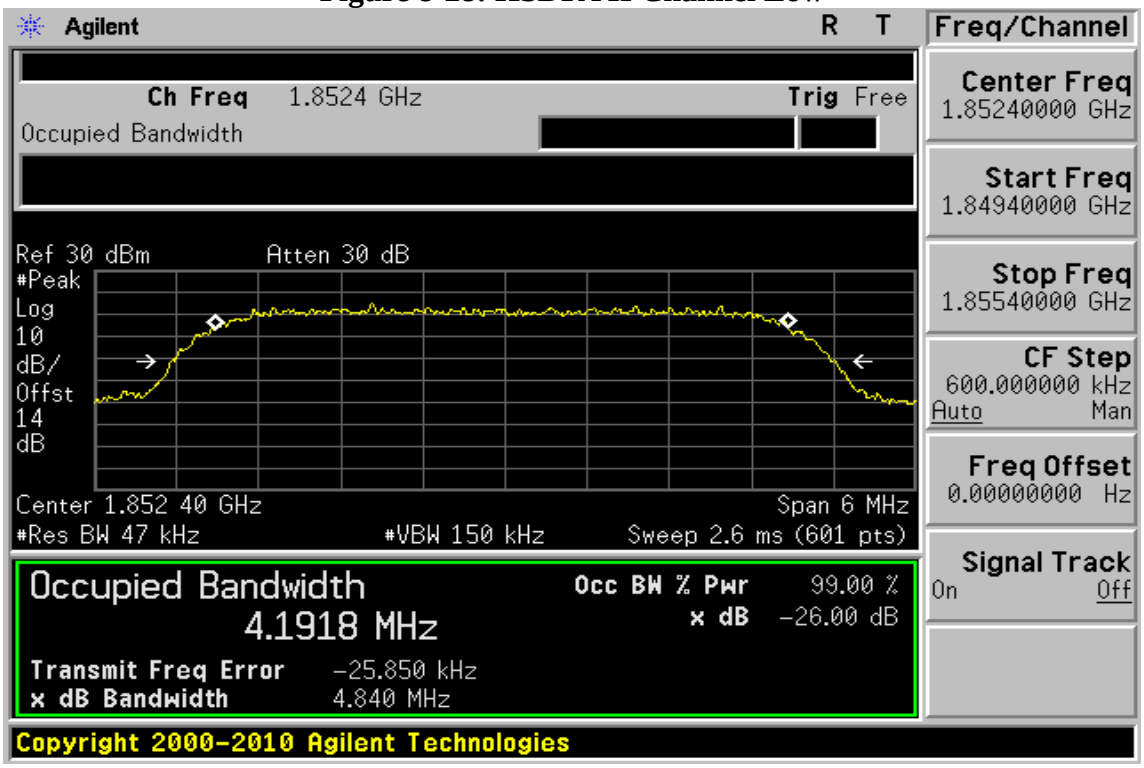

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Figure 8-29: HSDPA II Channel Mid

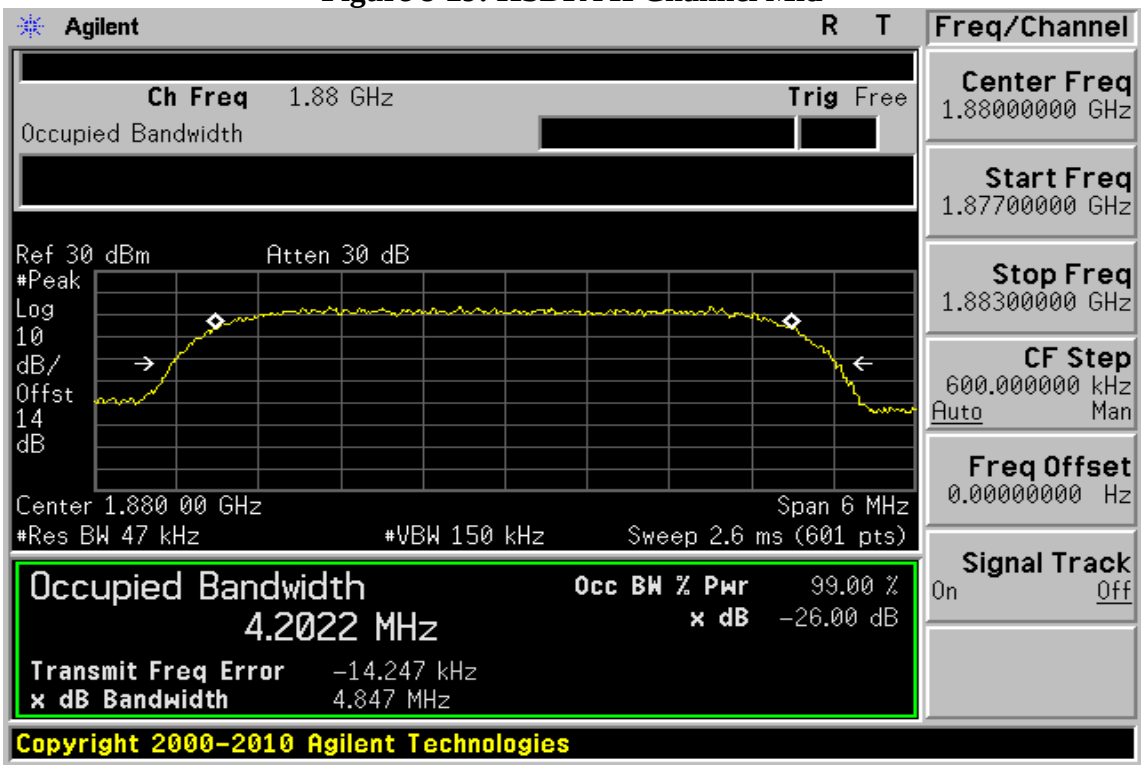

Figure 8-30: HSDPA II Channel High

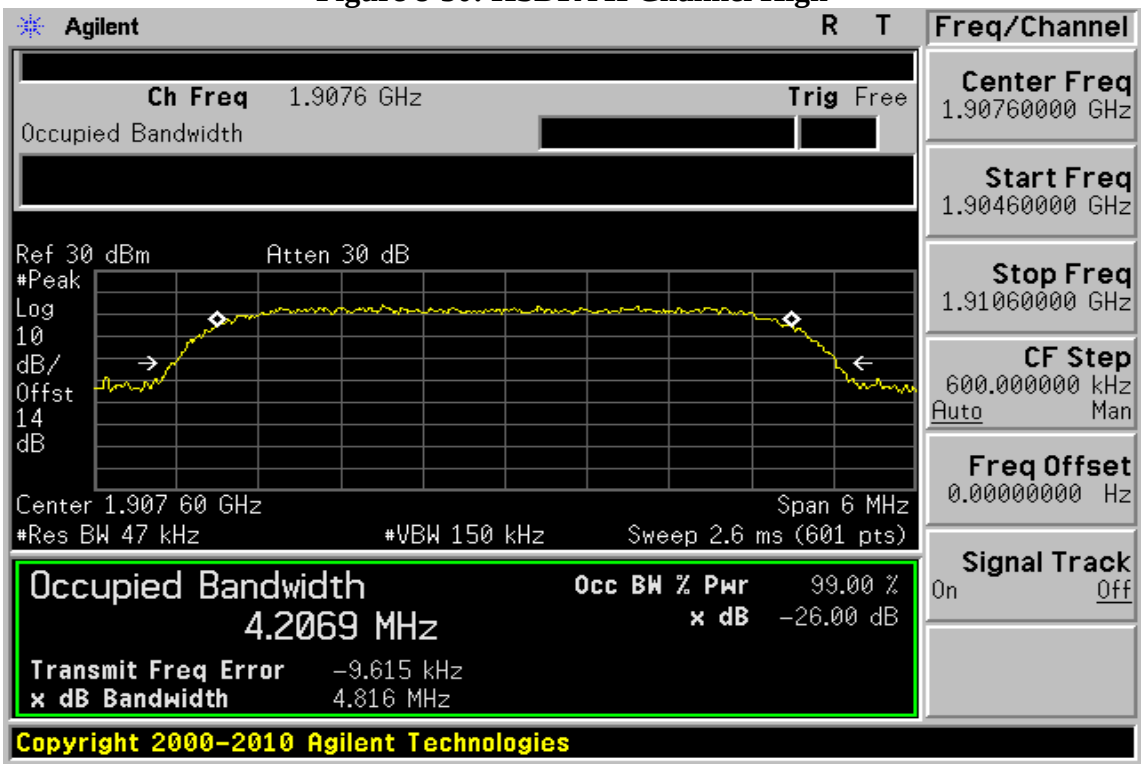

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Figure 8-31: HSDPA IV Channel Low

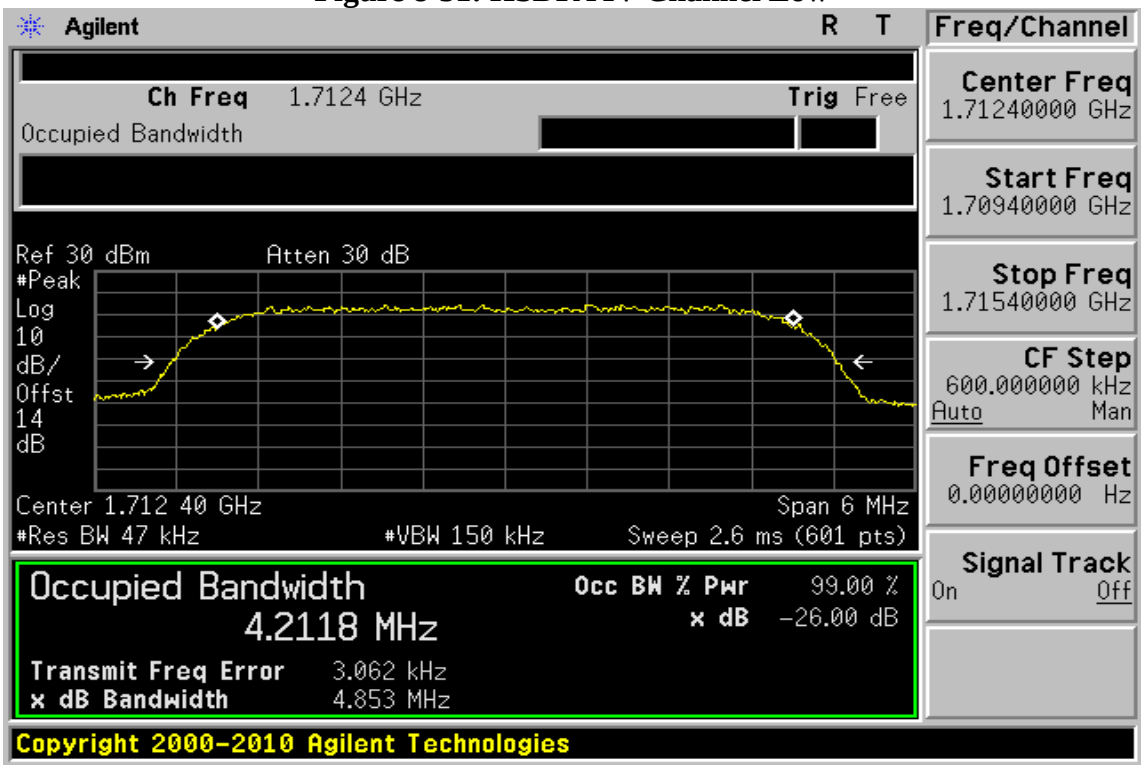

Figure 8-32: HSDPA IV Channel Mid

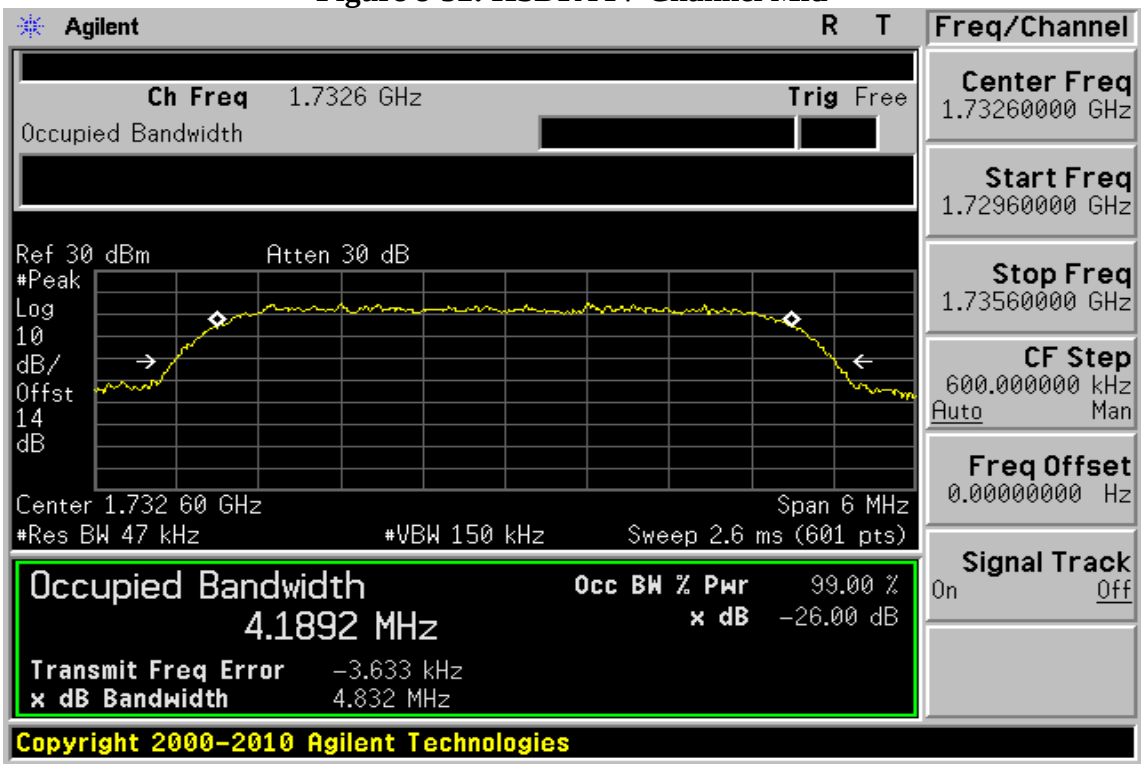

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Figure 8-33: HSDPA IV Channel High

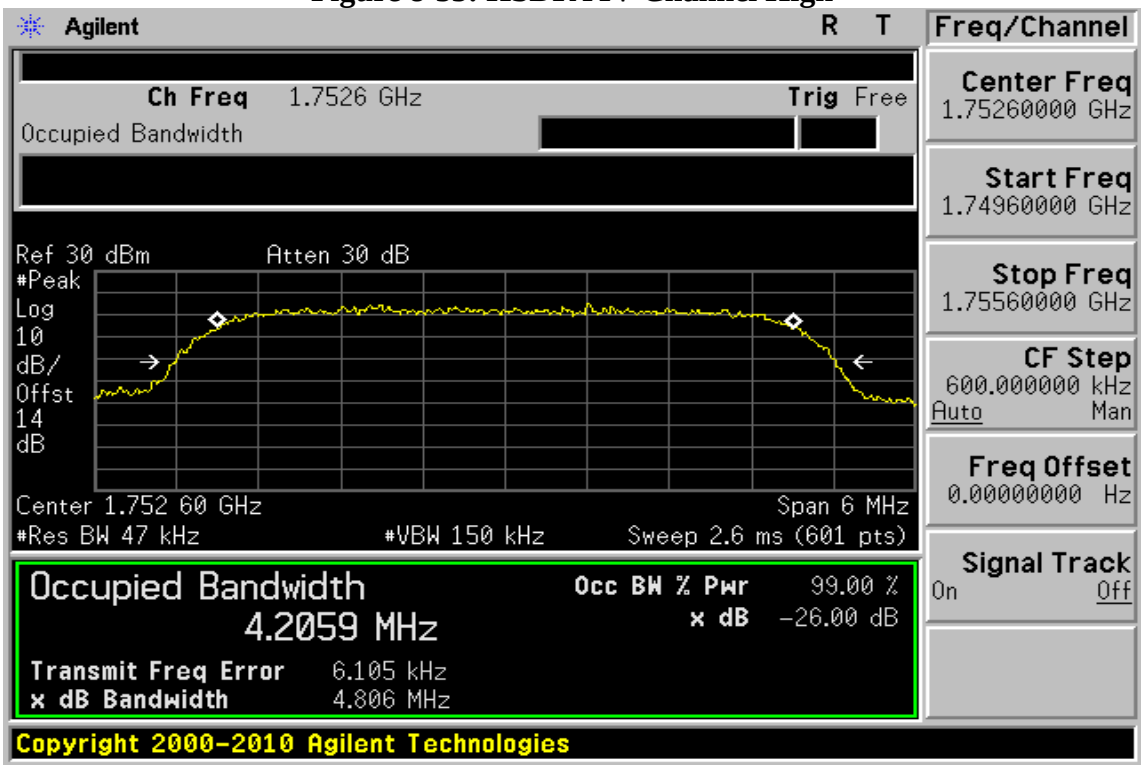

Figure 8-34: HSDPA V Channel Low

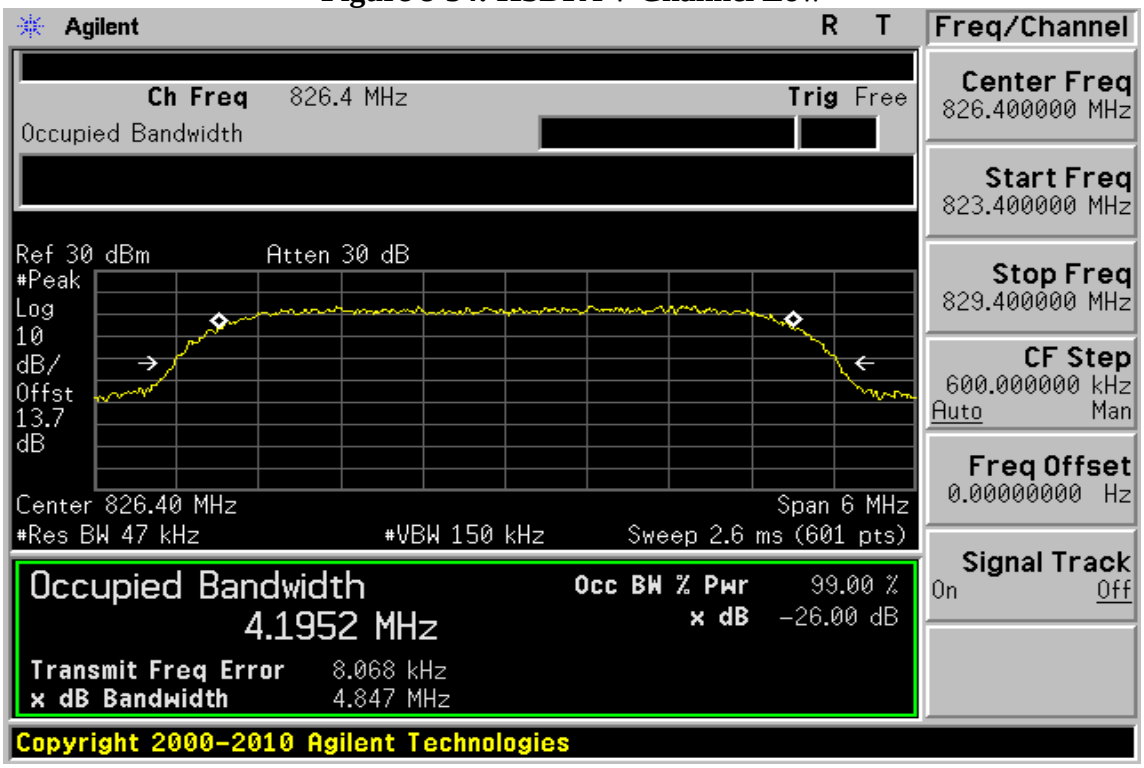

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Figure 8-35: HSDPA V Channel Mid

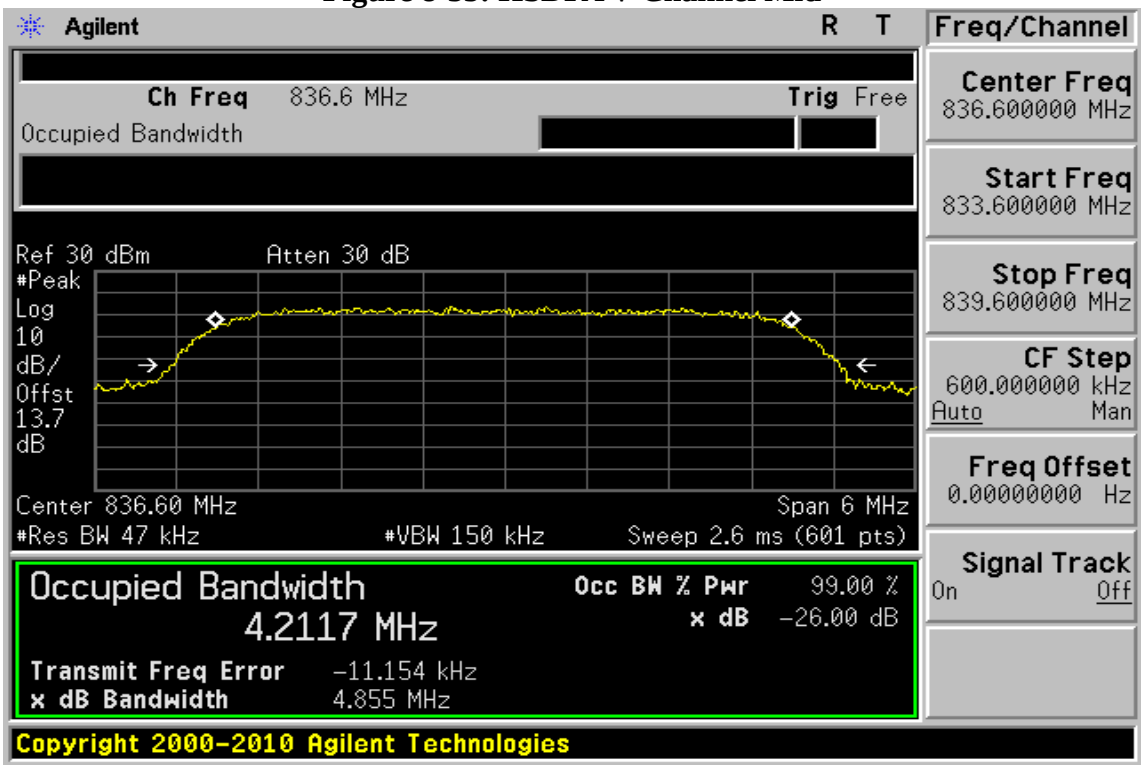

Figure 8-36: HSDPA V Channel High

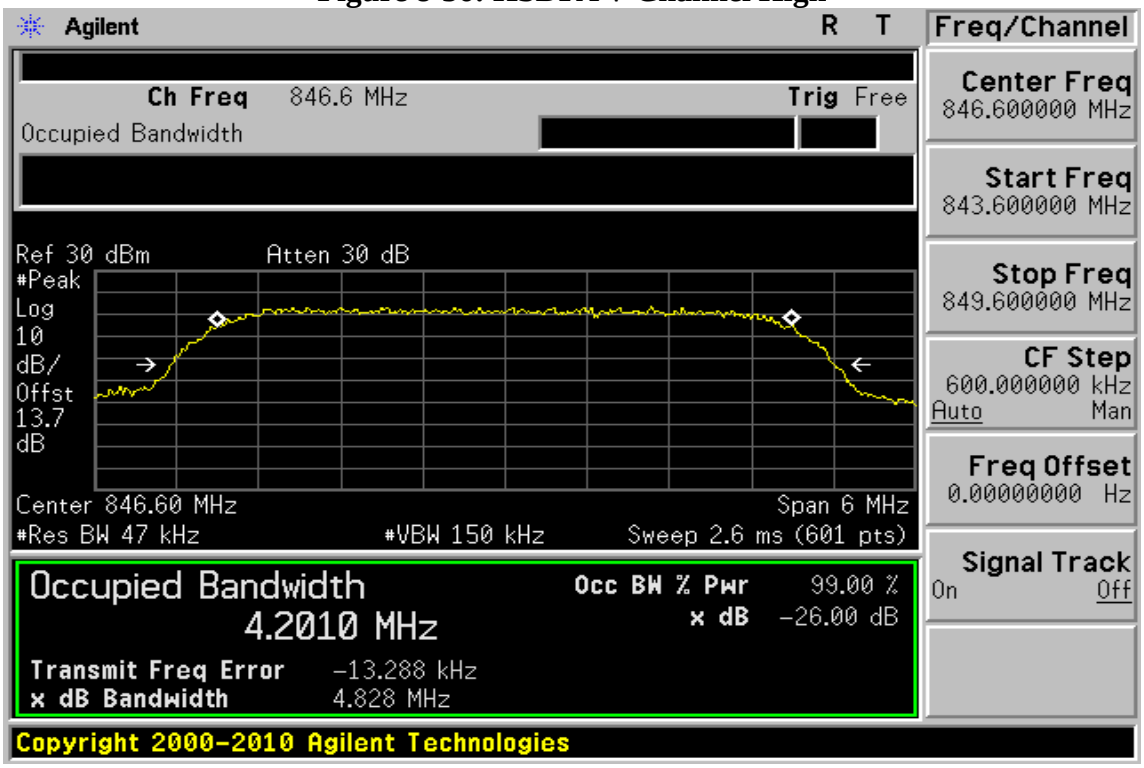

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Figure 8-37: HSUPA II Channel Low

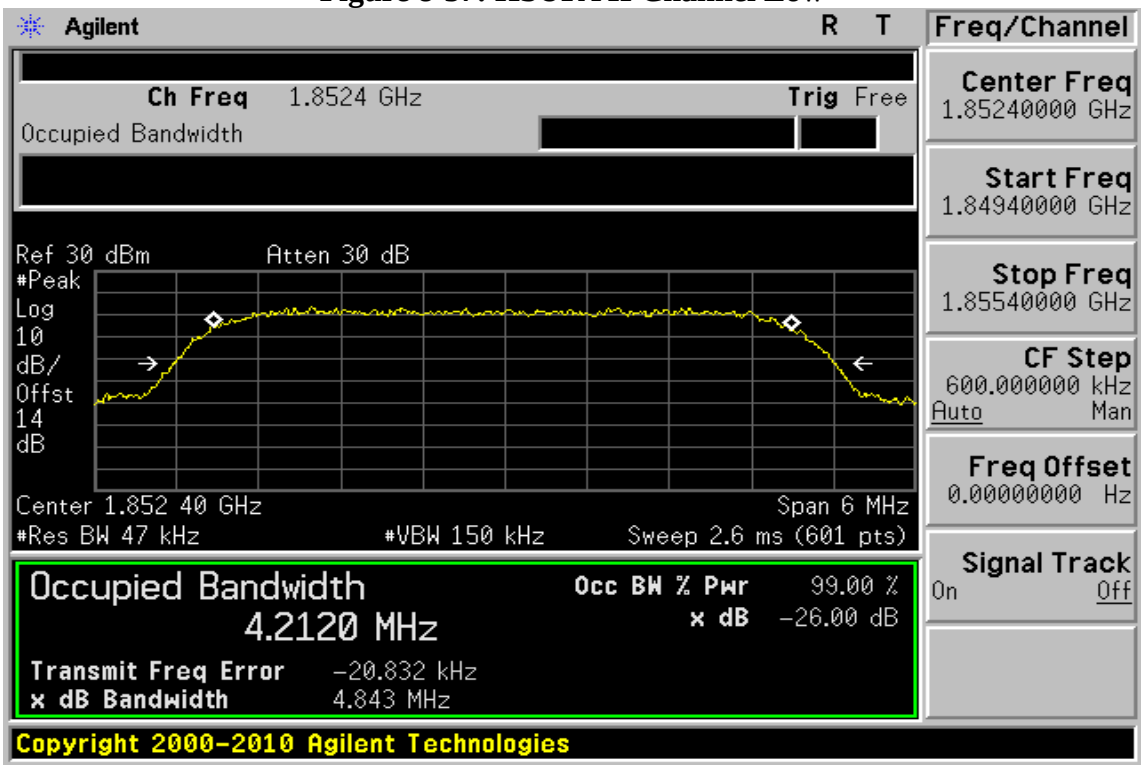

Figure 8-38: HSUPA II Channel Mid

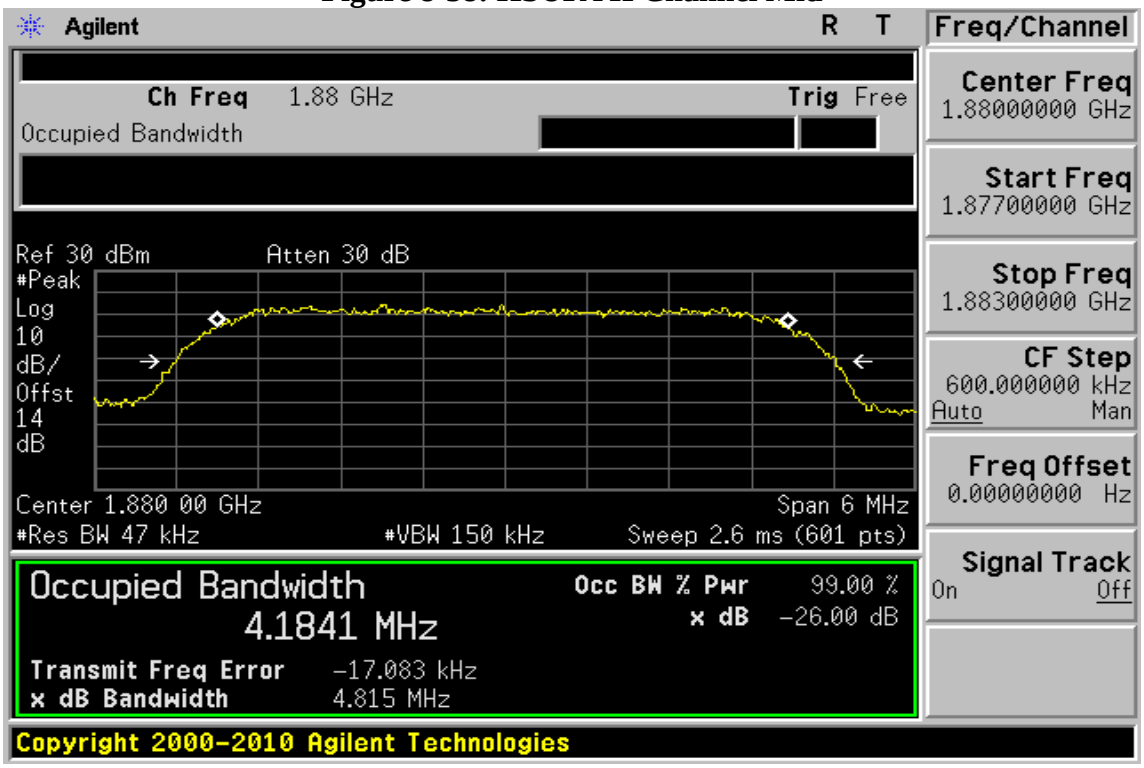

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Figure 8-39: HSUPA II Channel High

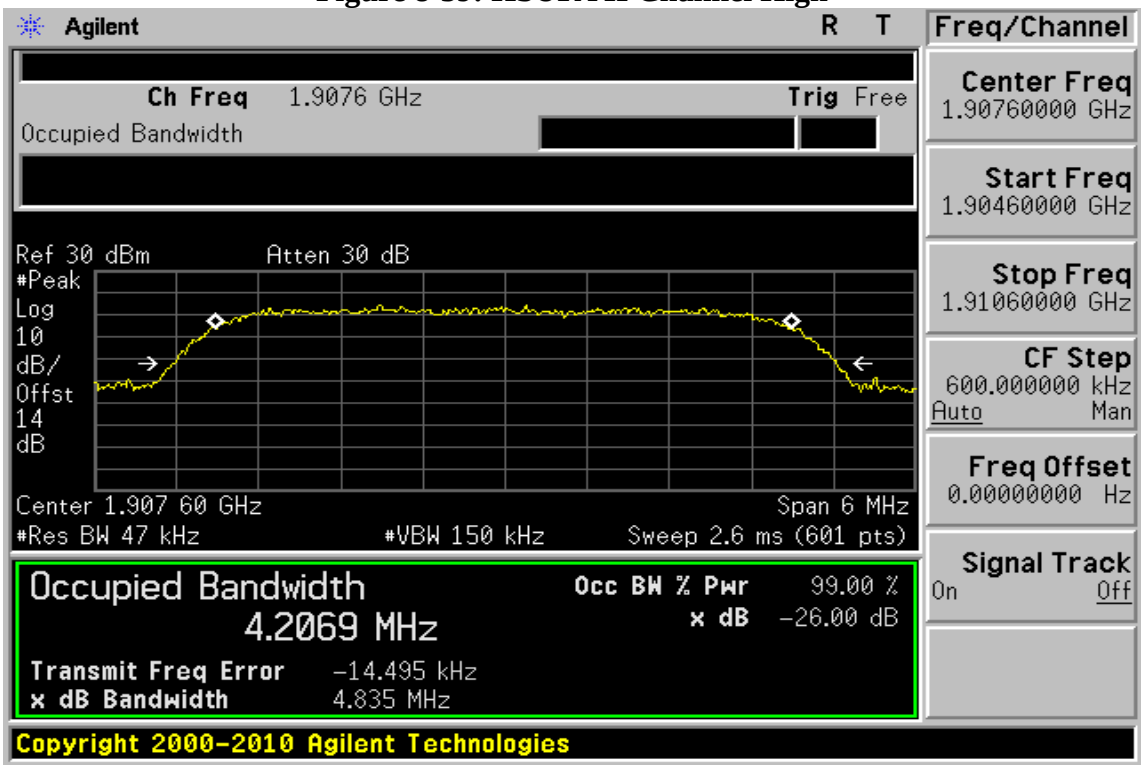

Figure 8-40: HSUPA IV Channel Low

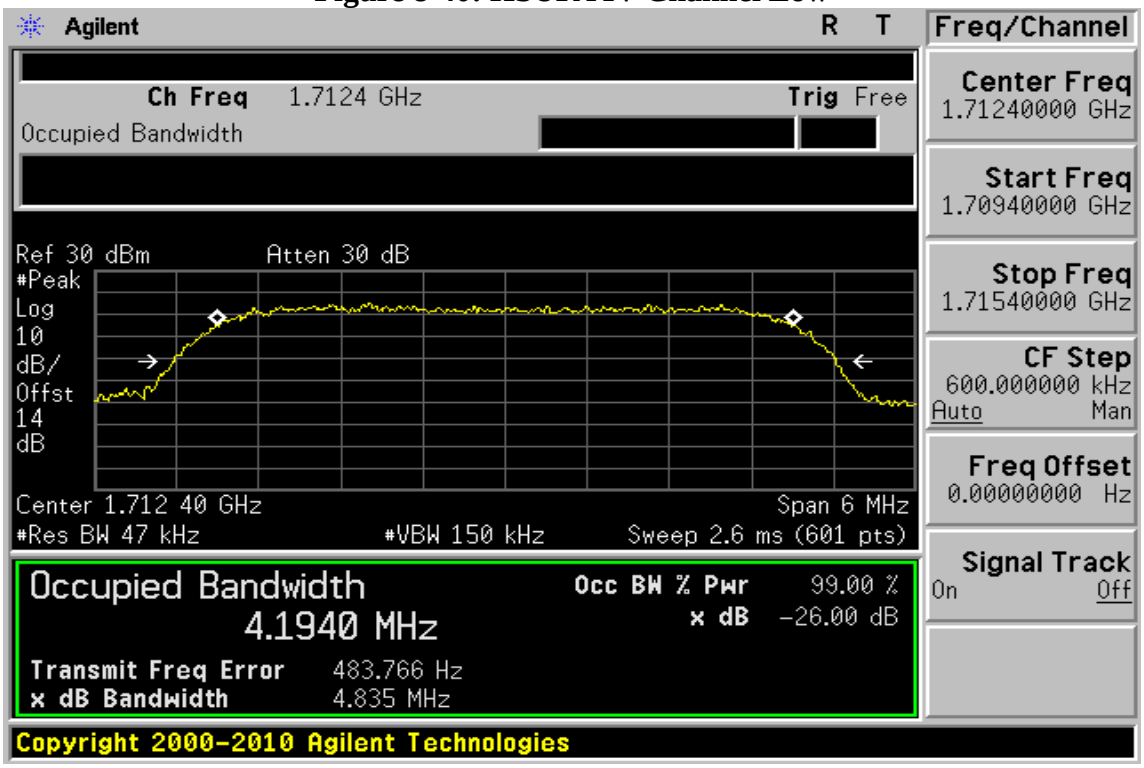

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Figure 8-41: HSUPA IV Channel Mid

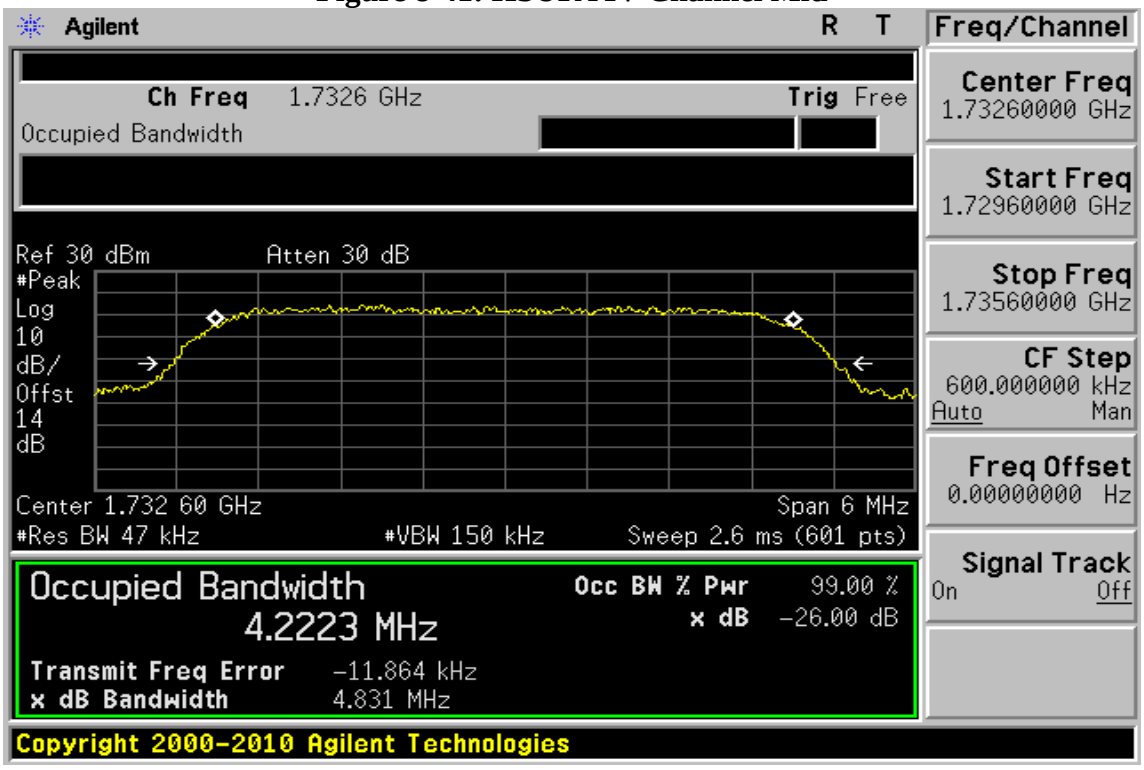

Figure 8-42: HSUPA IV Channel High

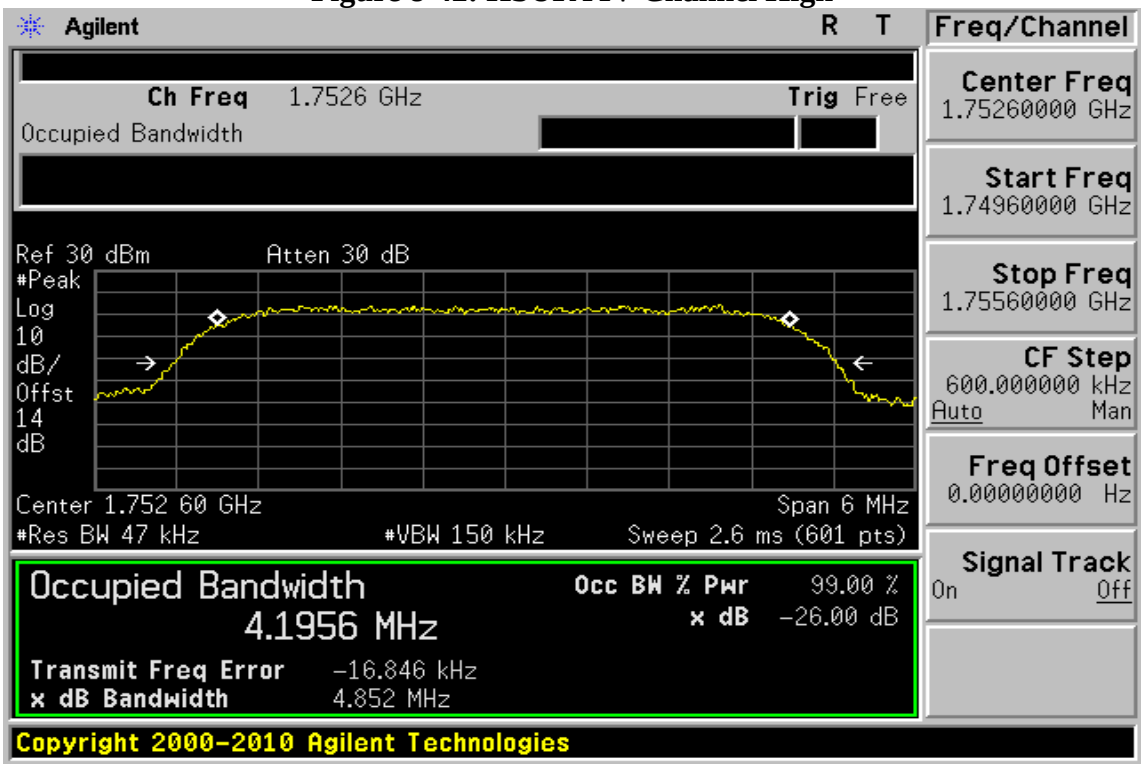

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Figure 8-43: HSUPA V Channel Low

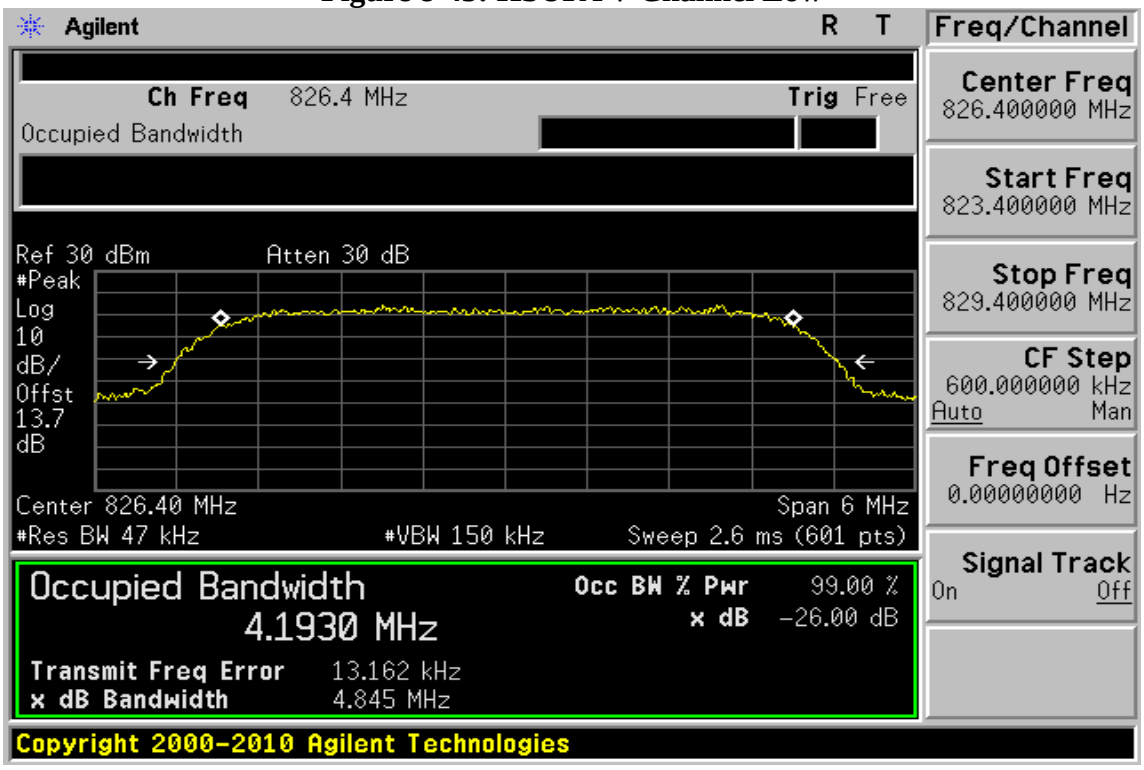

Figure 8-44: HSUPA V Channel Mid

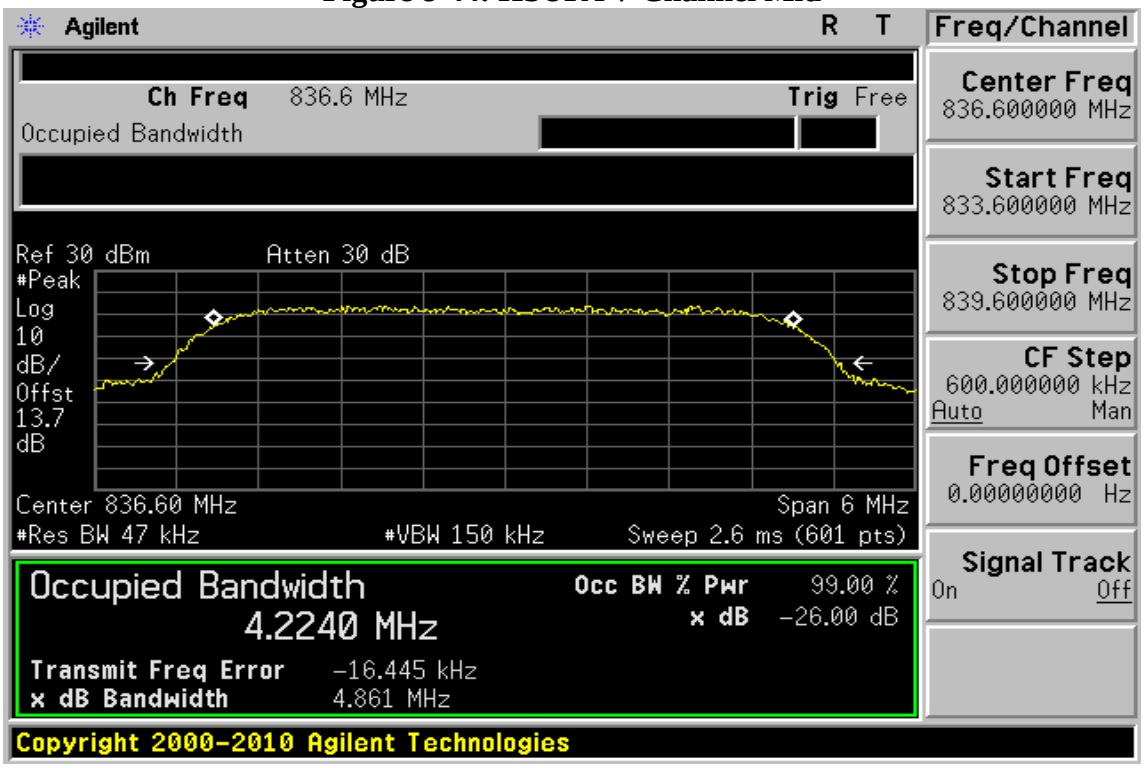

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Figure 8-45: HSUPA V Channel High

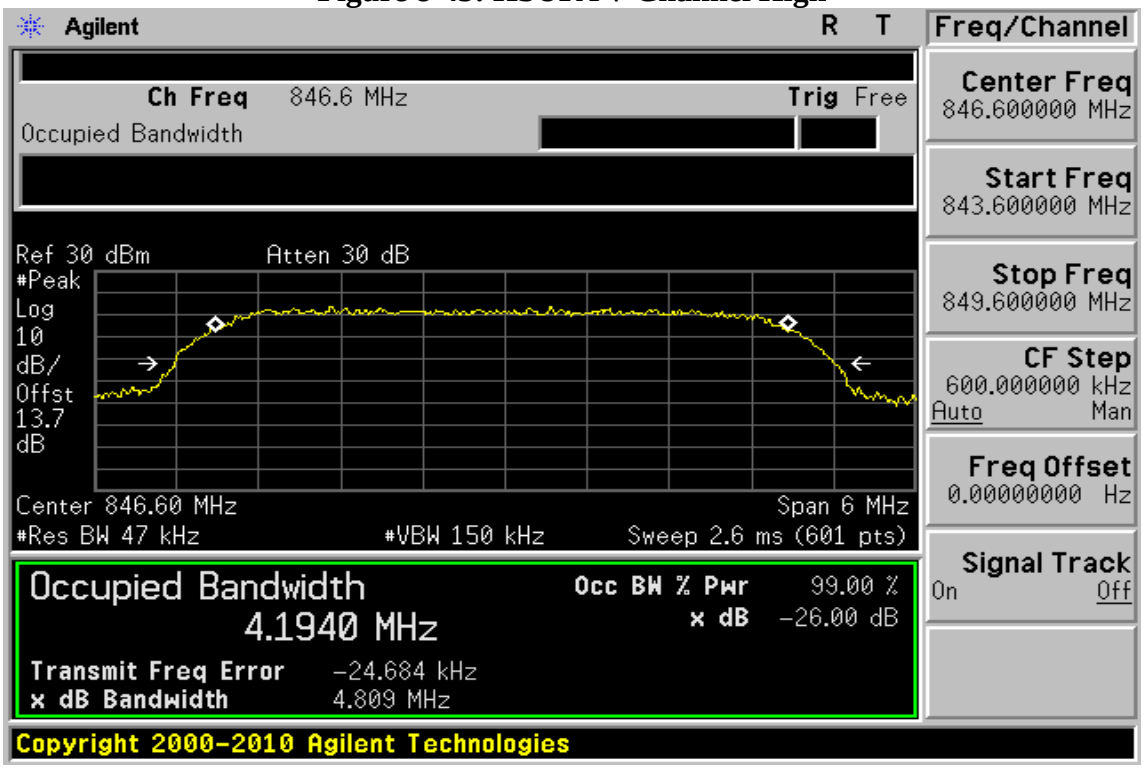

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Figure 8-46: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low

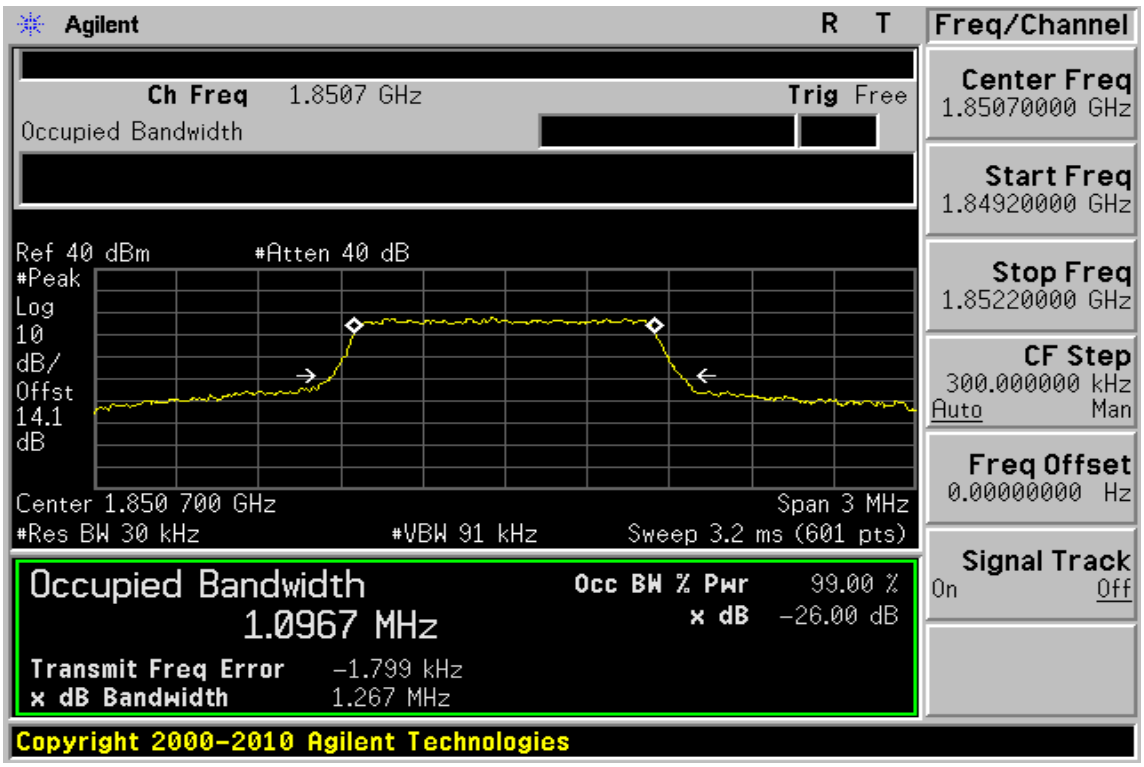

Figure 8-47: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Mid

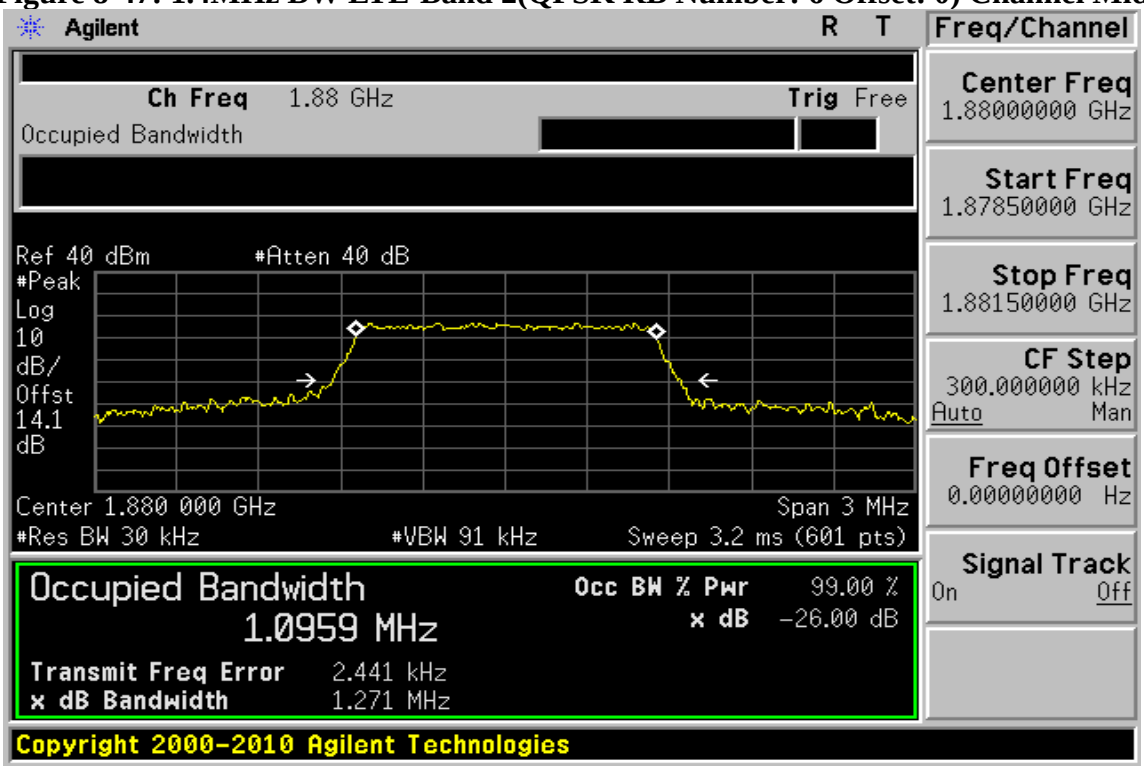

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Figure 8-48: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High

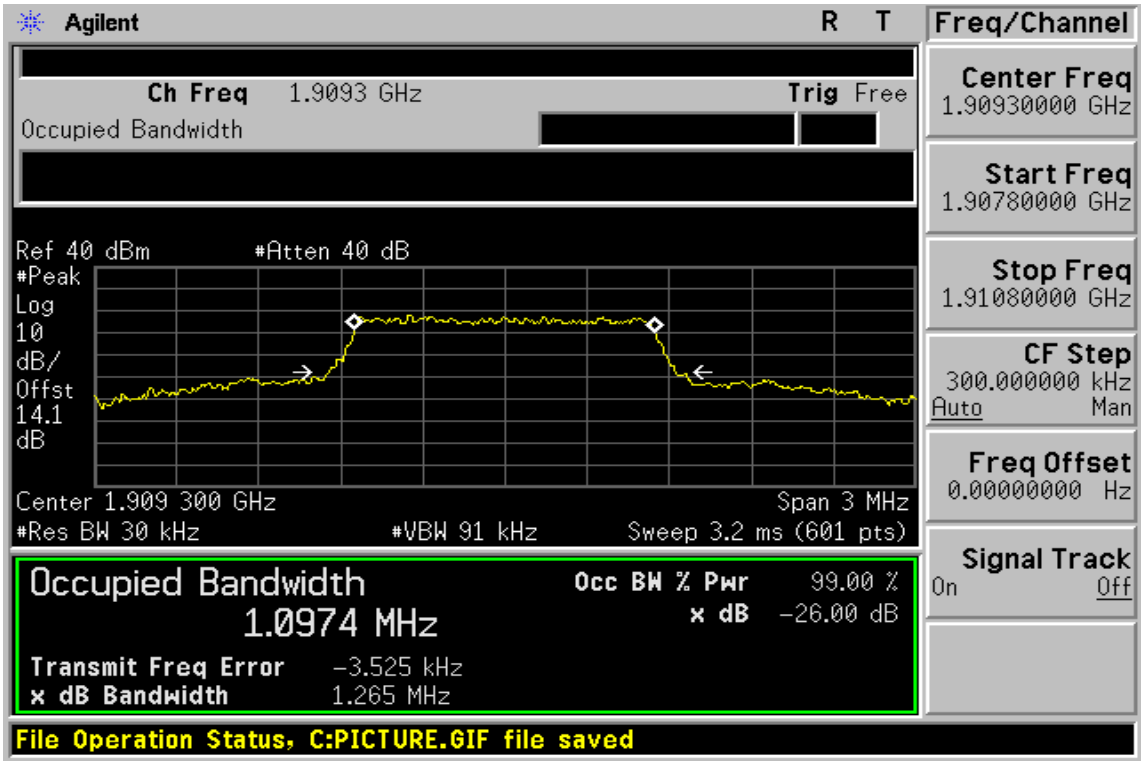

Figure 8-49: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Low

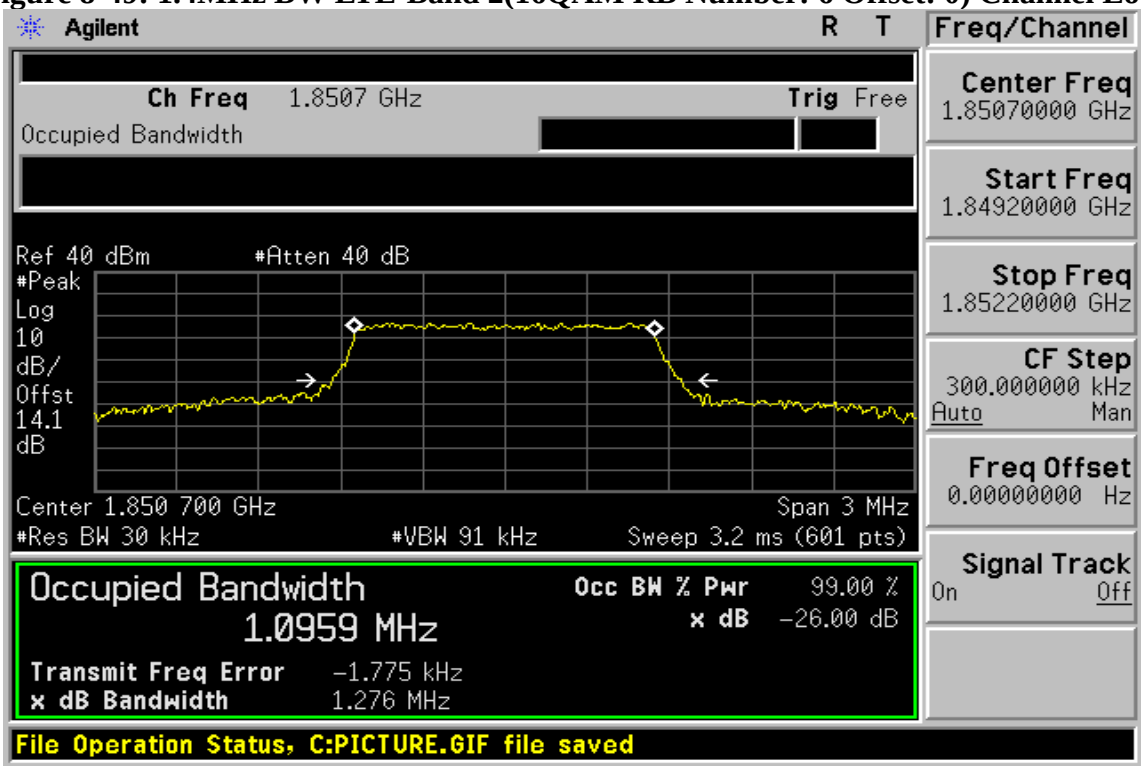

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Figure 8-50: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid

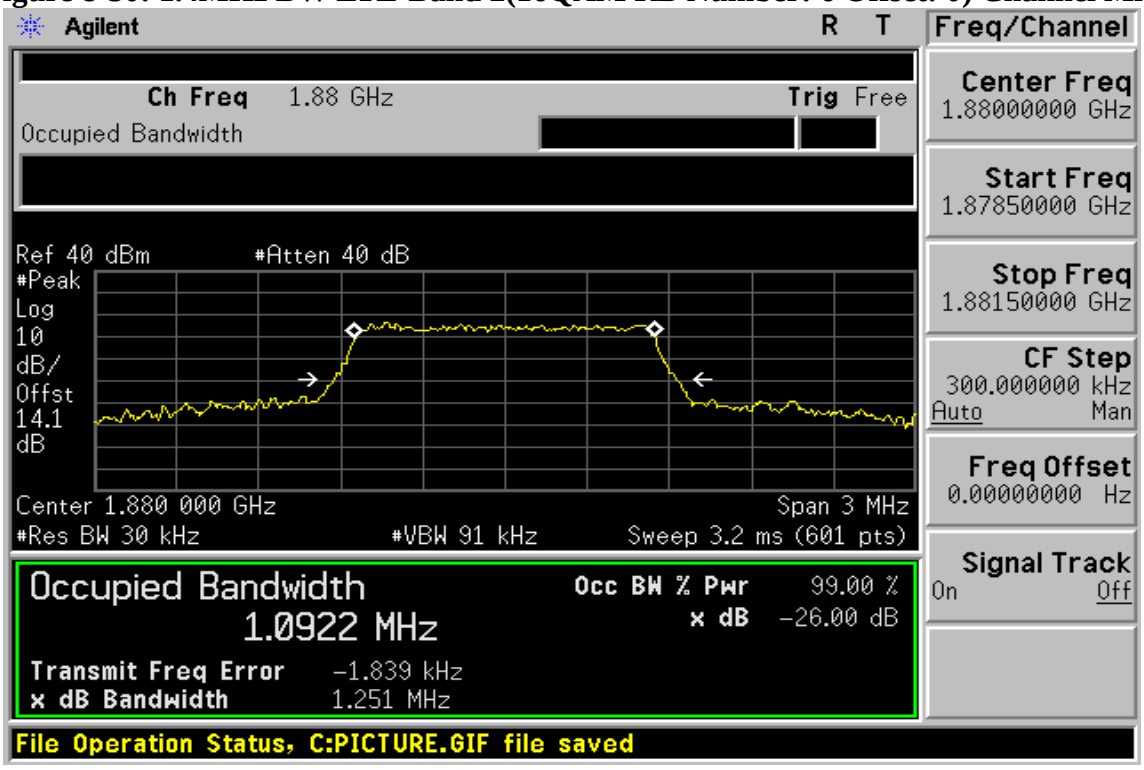

Figure 8-51: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel High

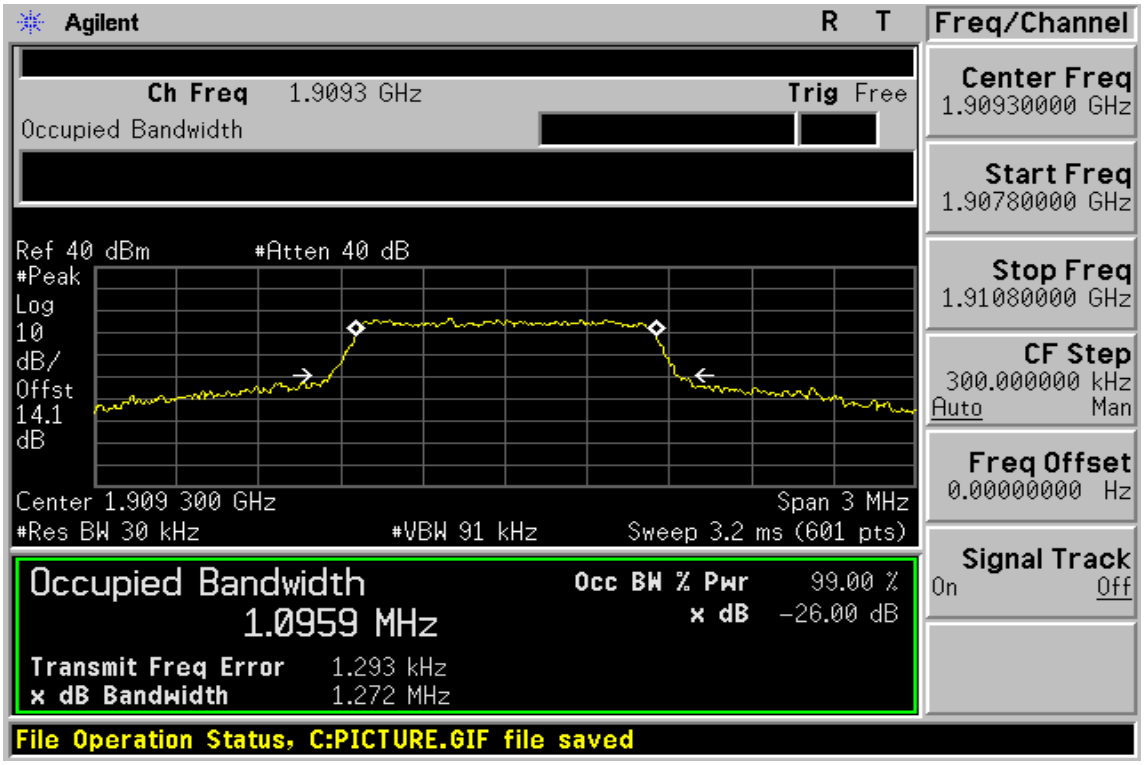

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Figure 8-52: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low

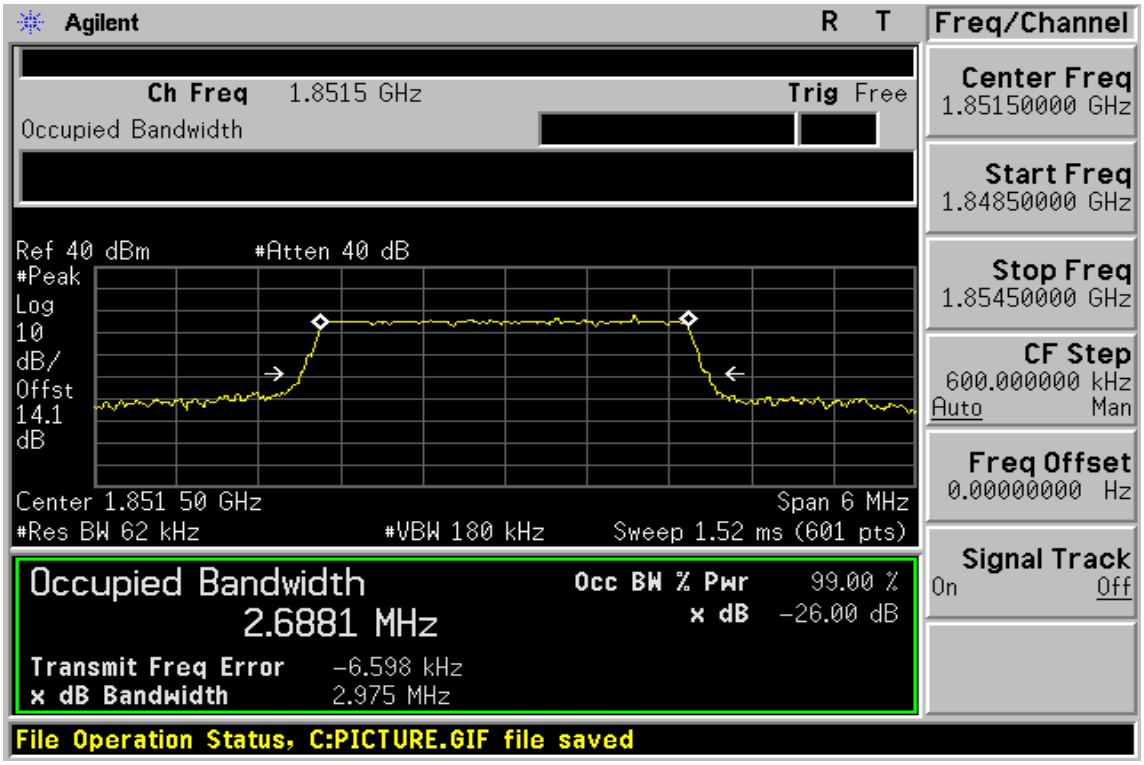

Figure 8-53: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Mid

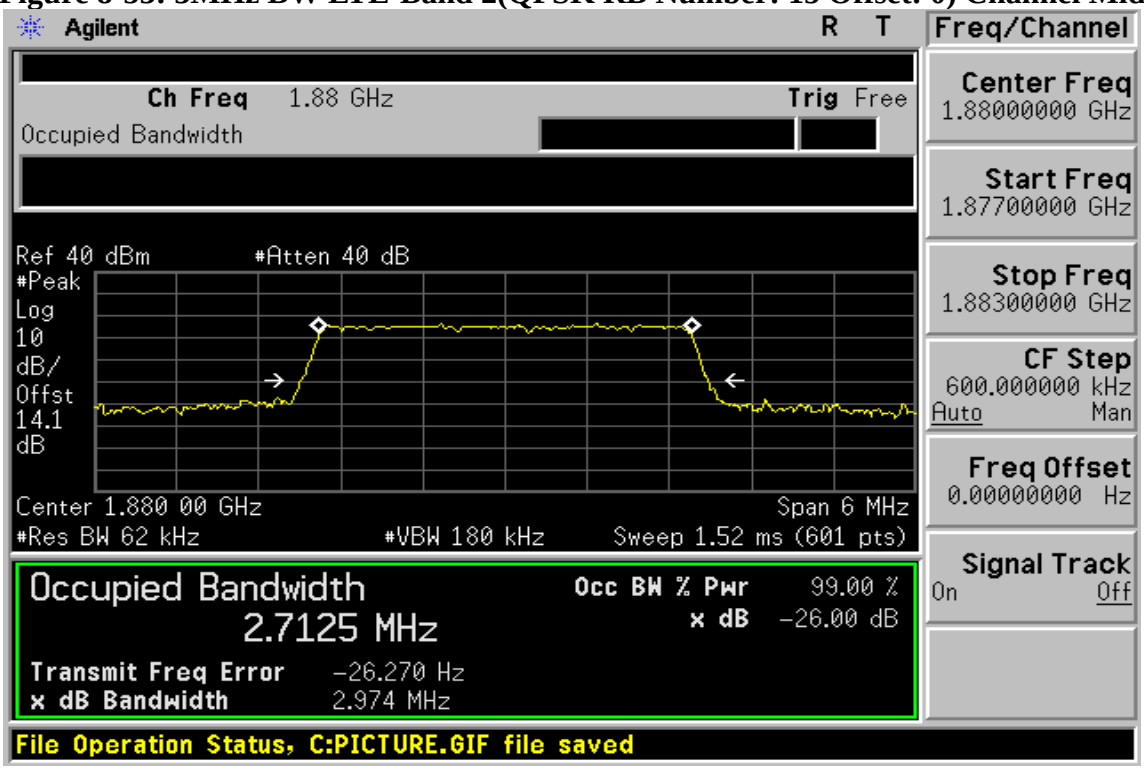

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Figure 8-54: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High

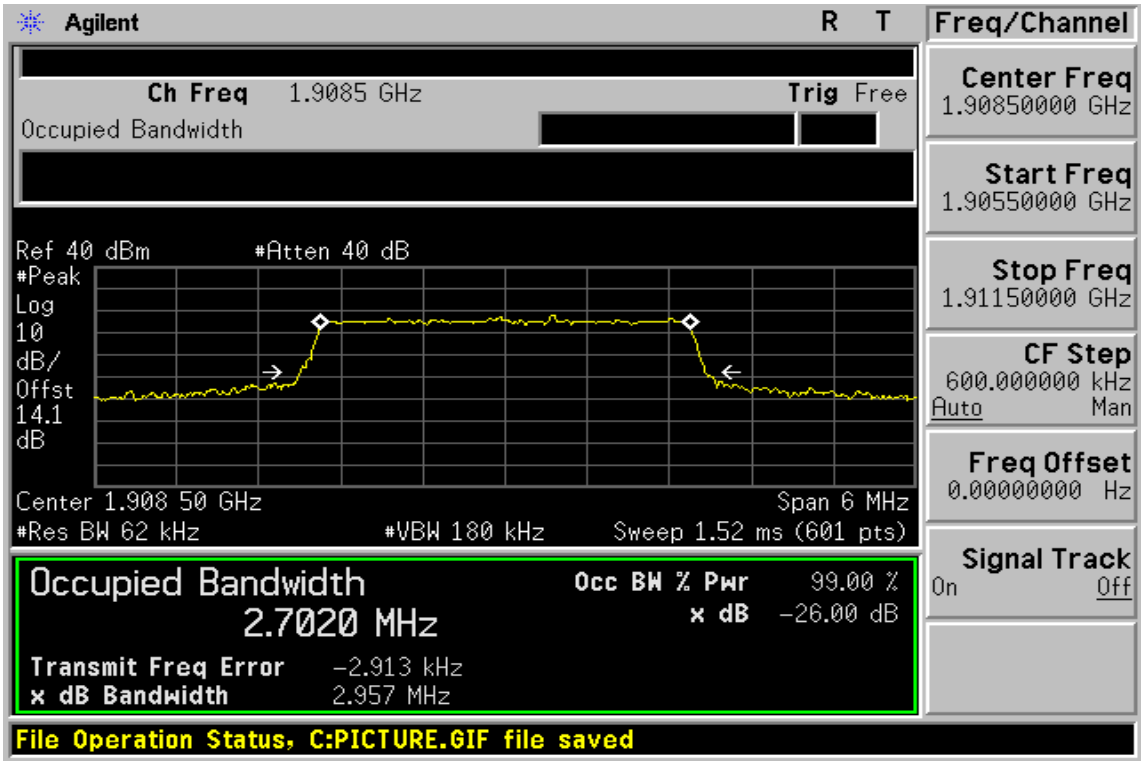

Figure 8-55: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Low

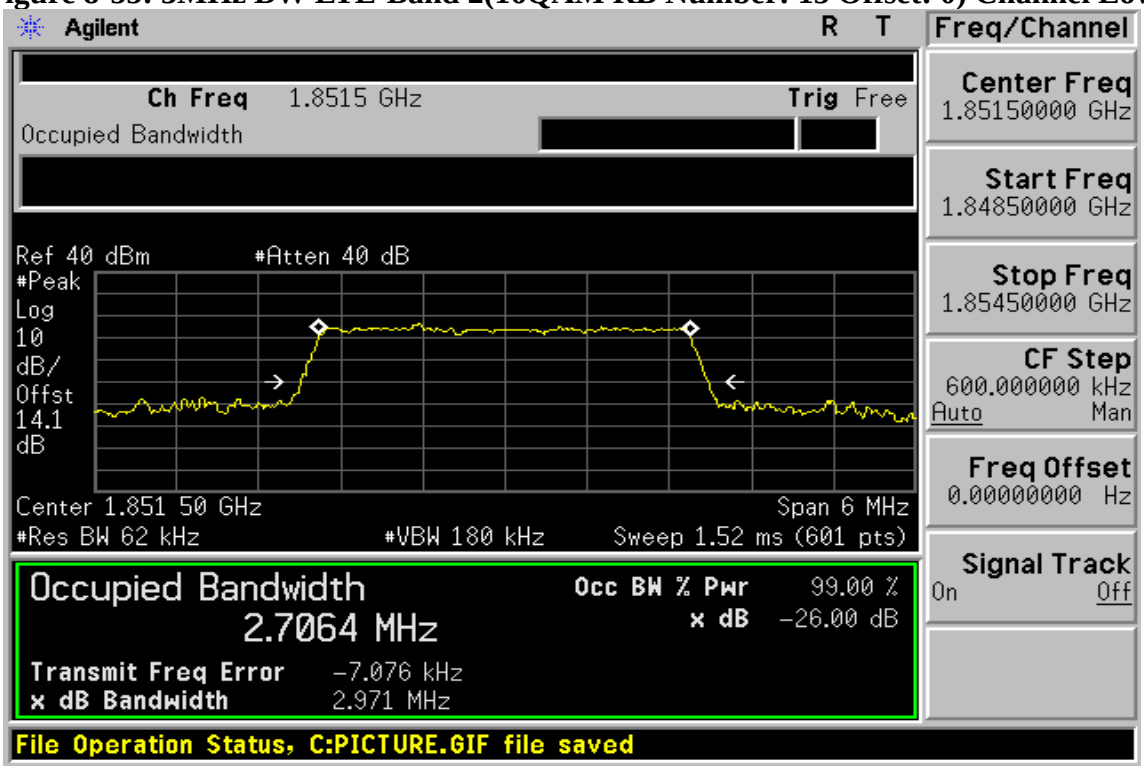

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Figure 8-56: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid

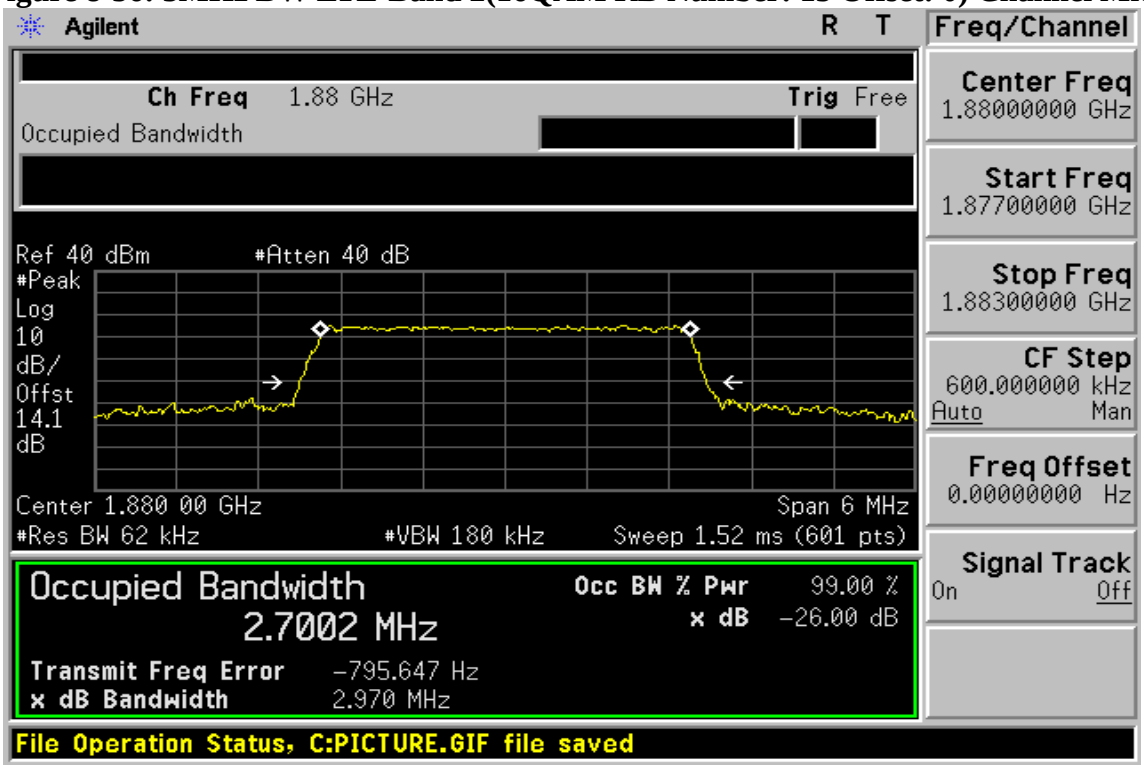

Figure 8-57: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel High

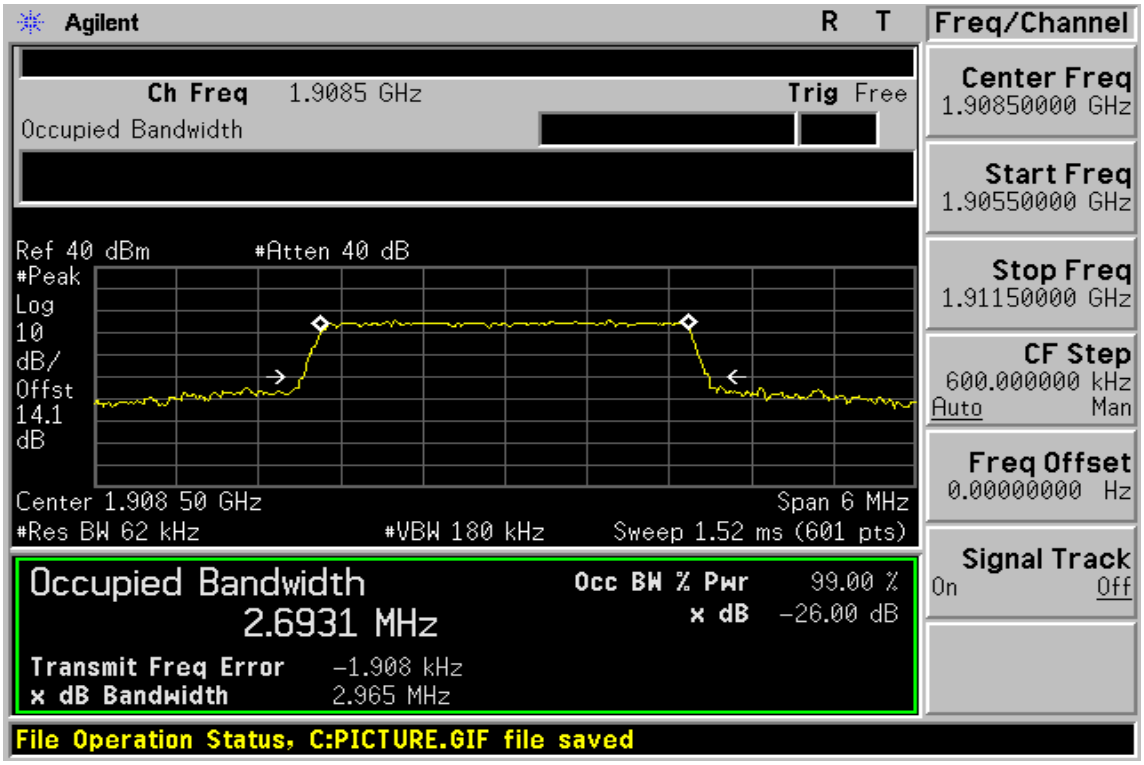

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Figure 8-58: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low

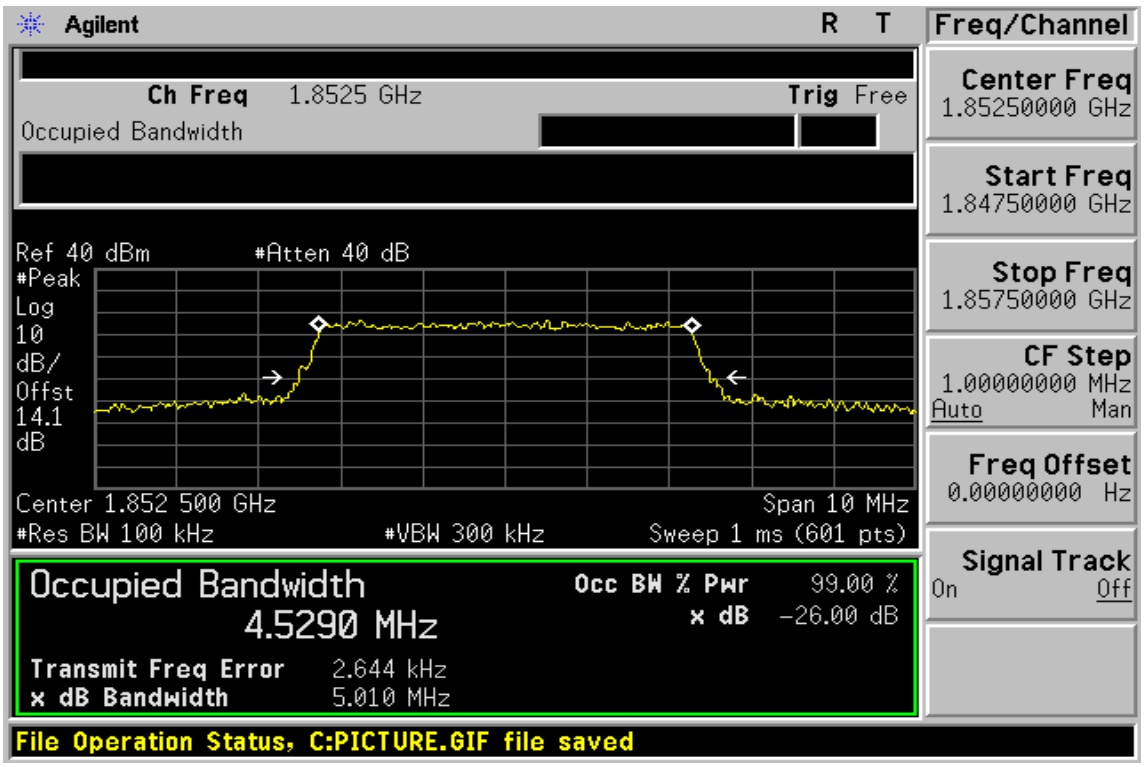

Figure 8-59: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Mid

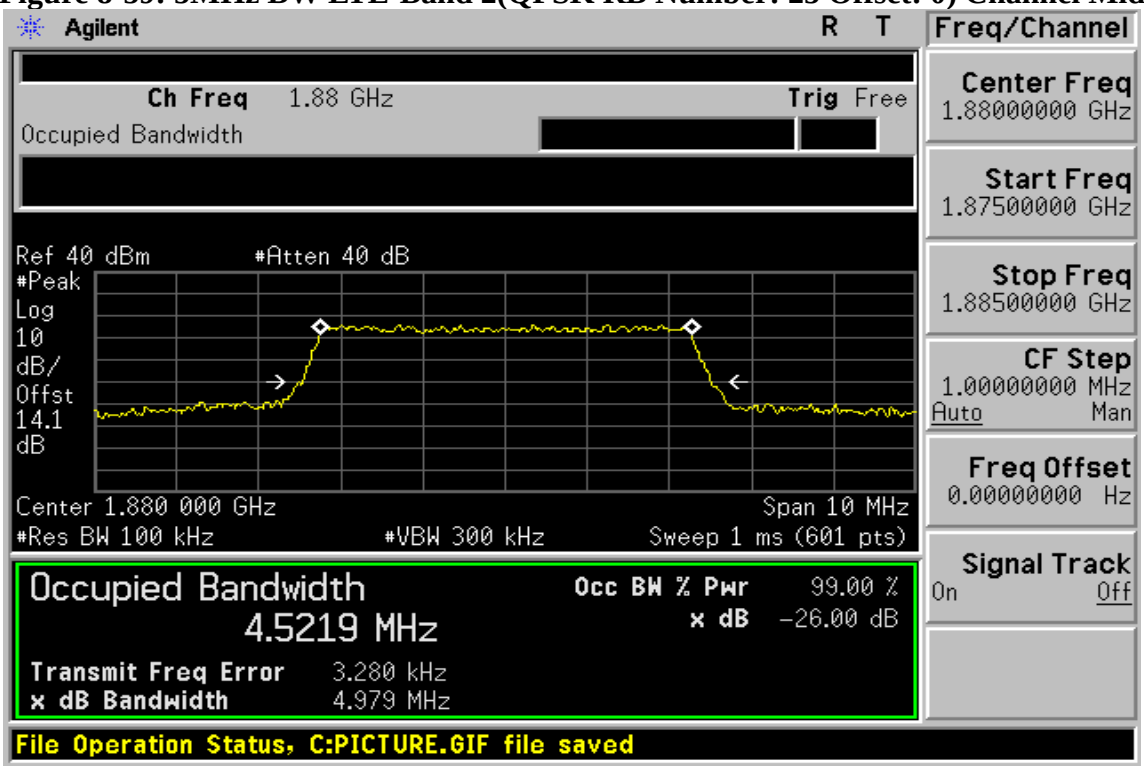

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Figure 8-60: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High

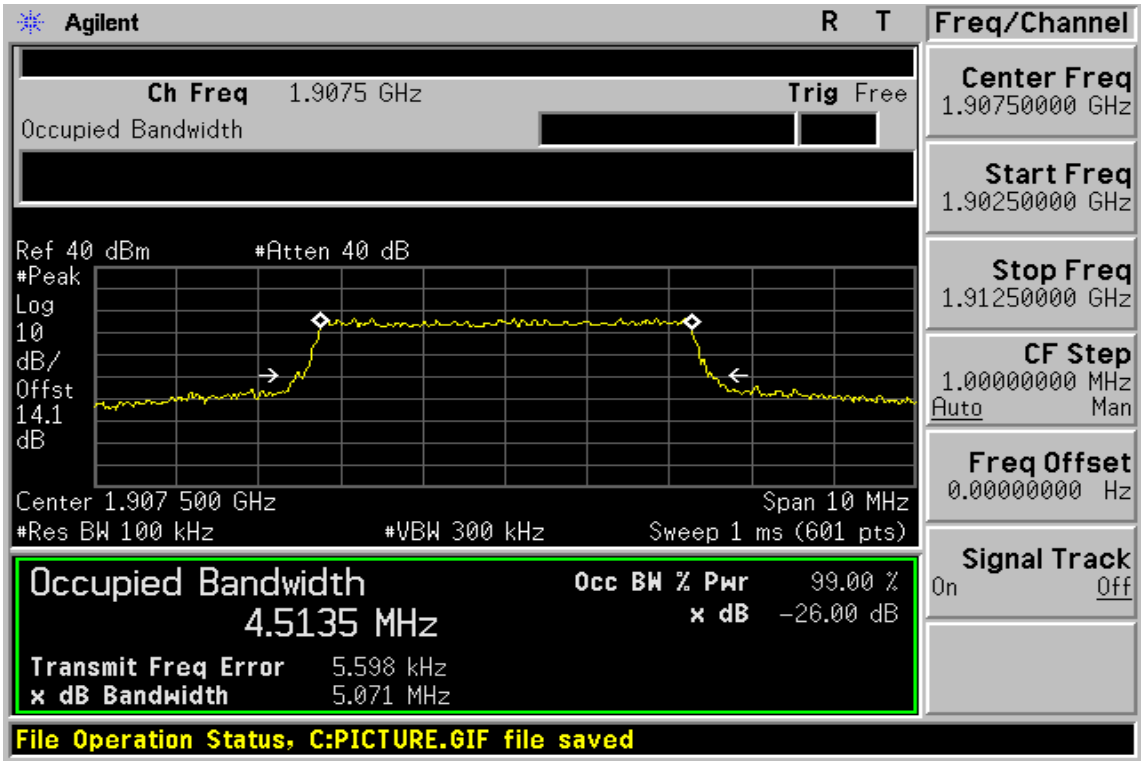

Figure 8-61: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Low

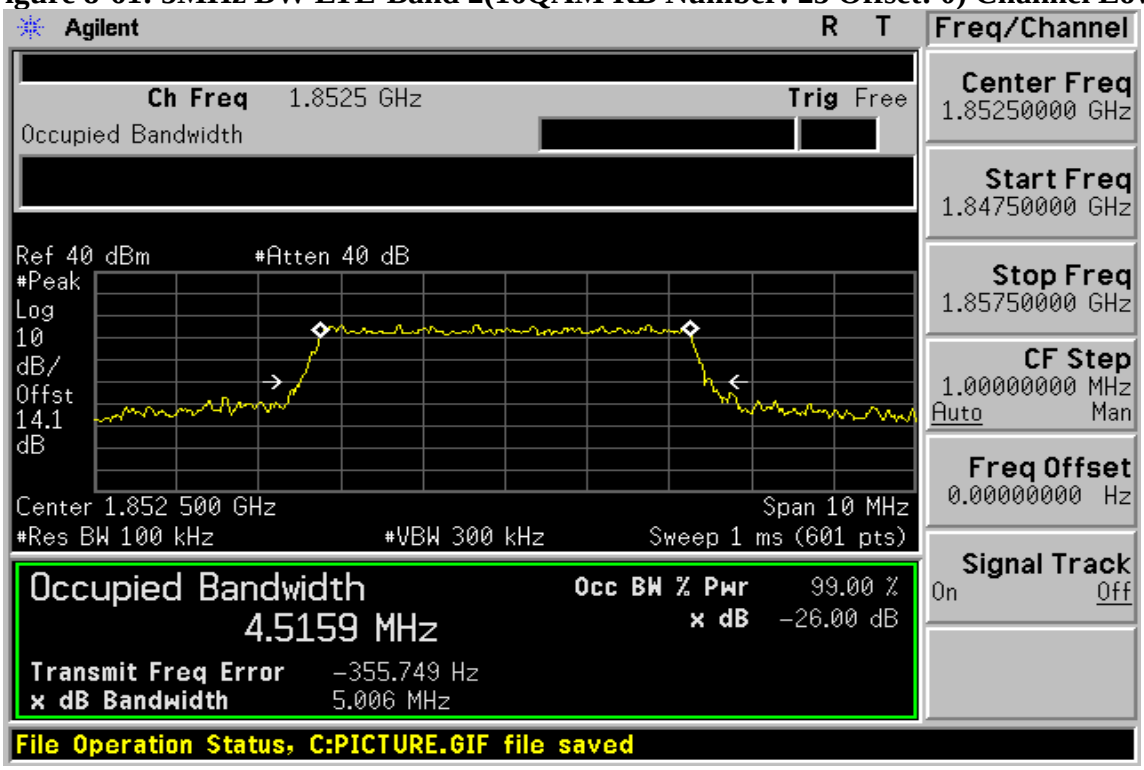

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Figure 8-62: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid

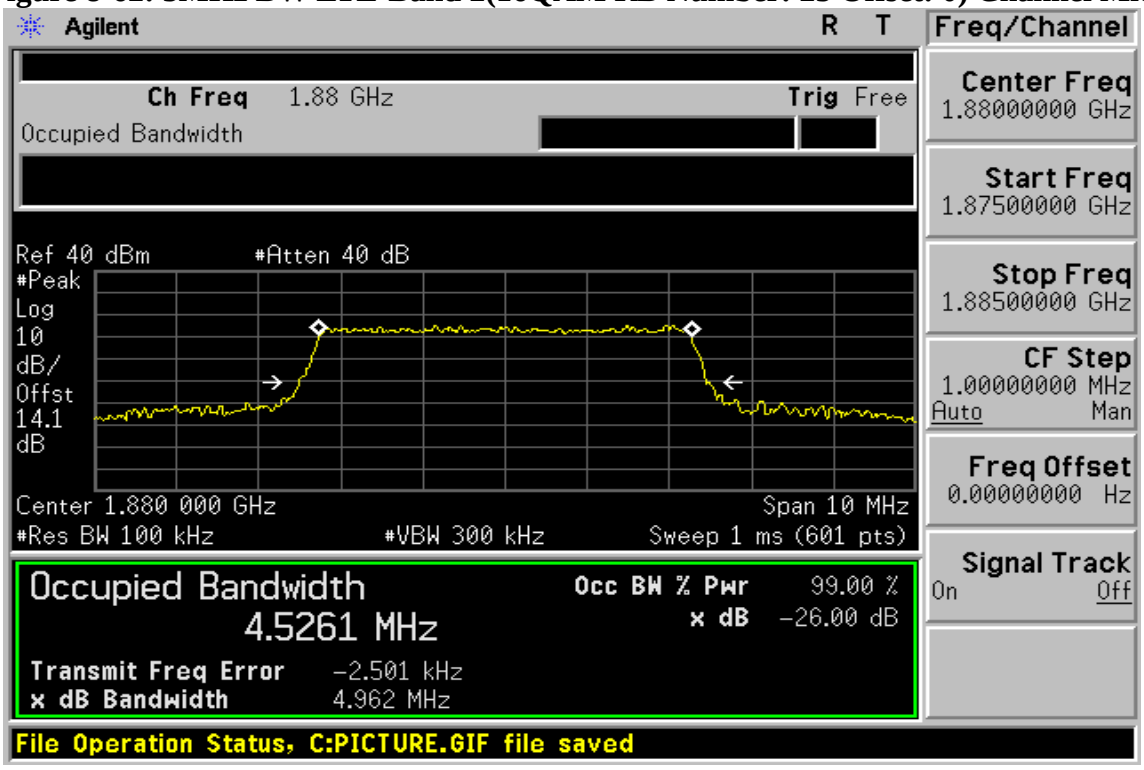

Figure 8-63: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel High

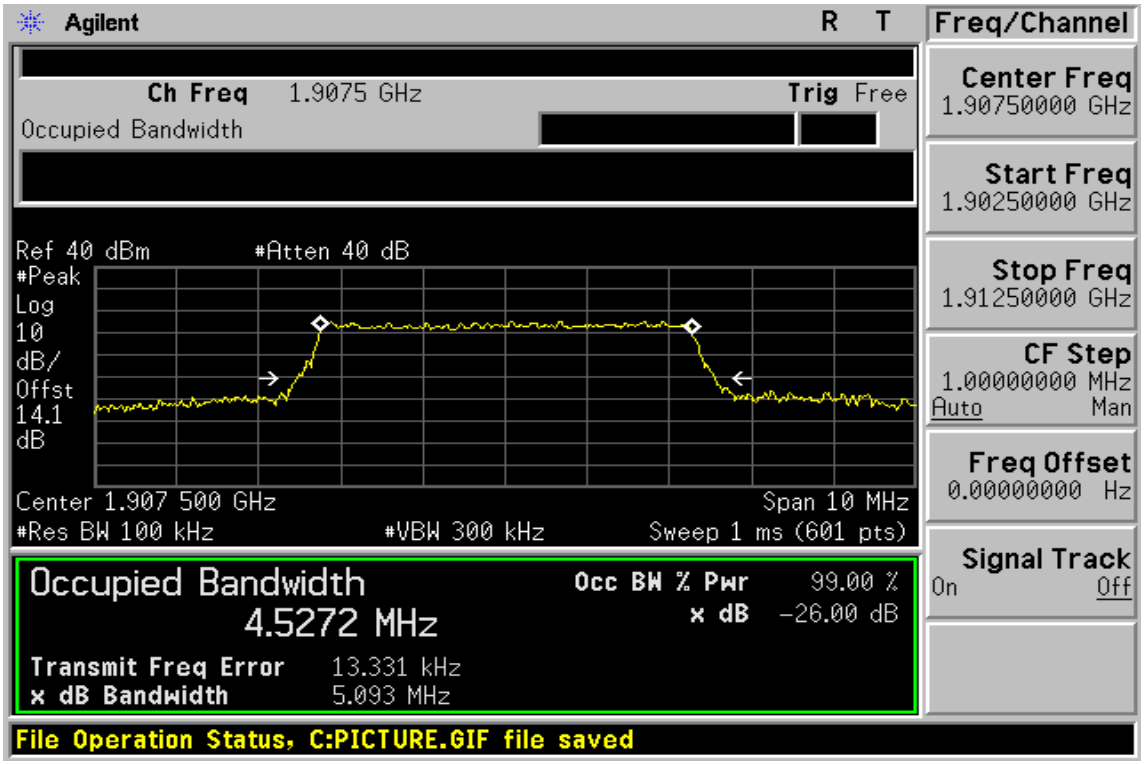

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Figure 8-64: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low

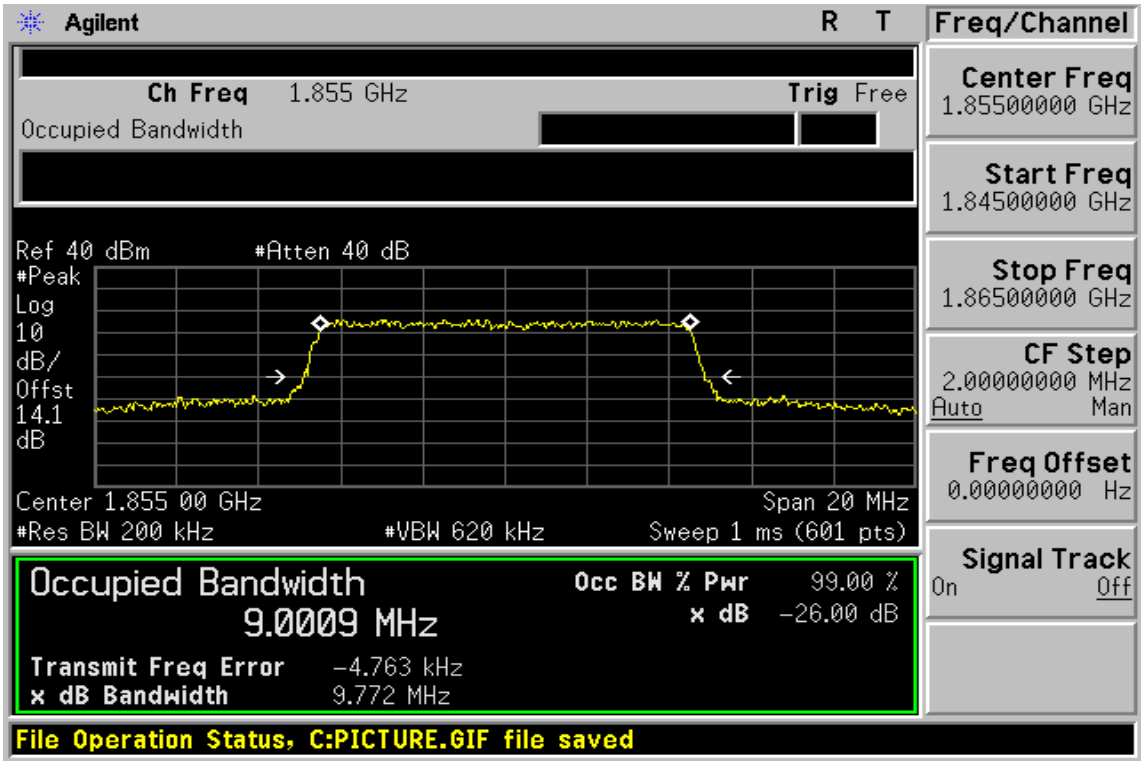

Figure 8-65: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Mid

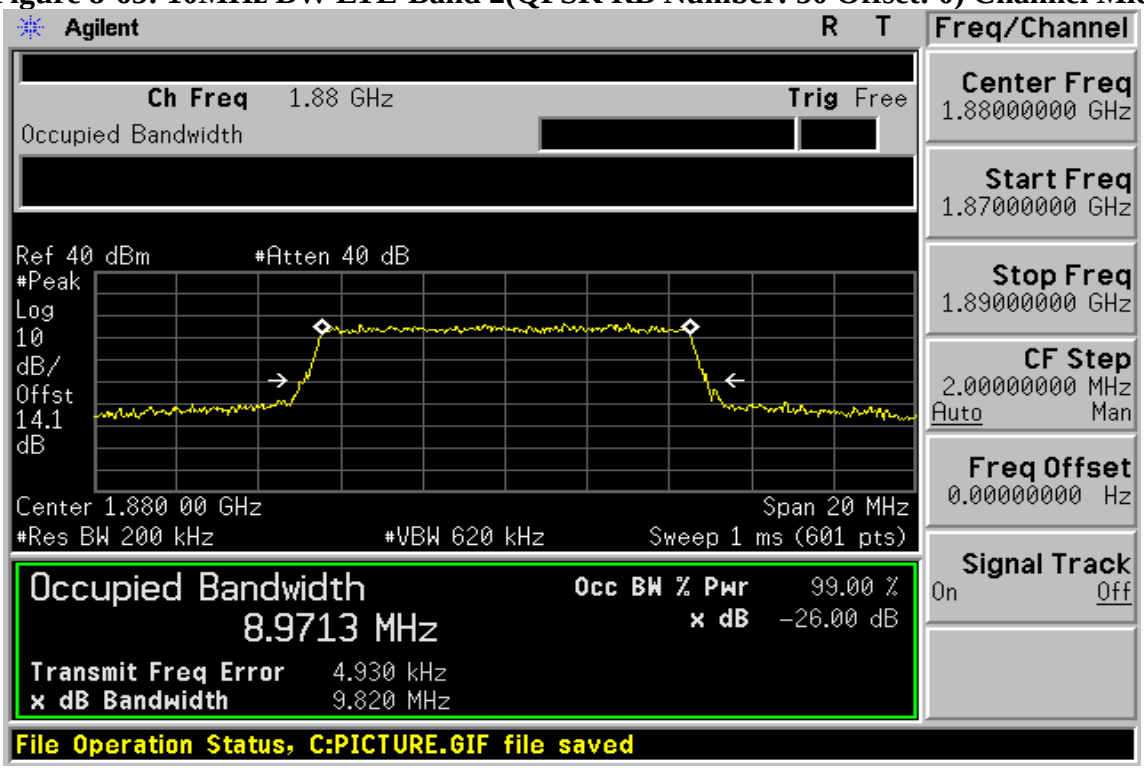

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Figure 8-66: 10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel High

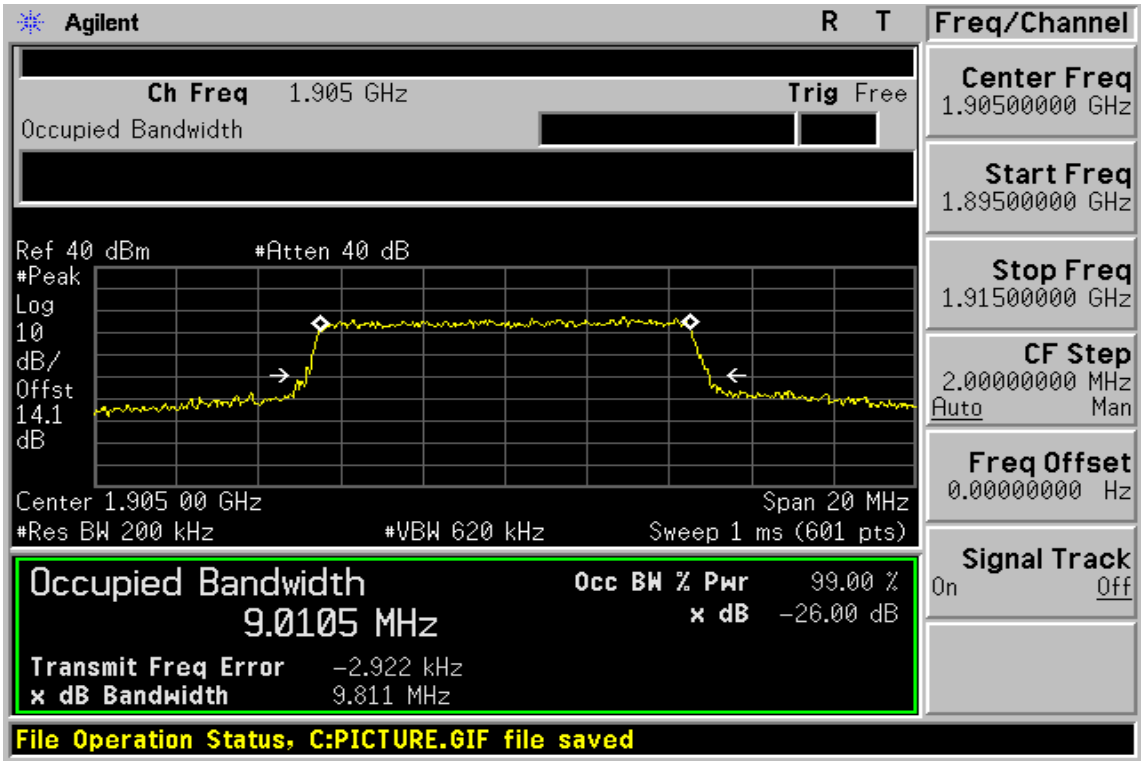

Figure 8-67: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Low

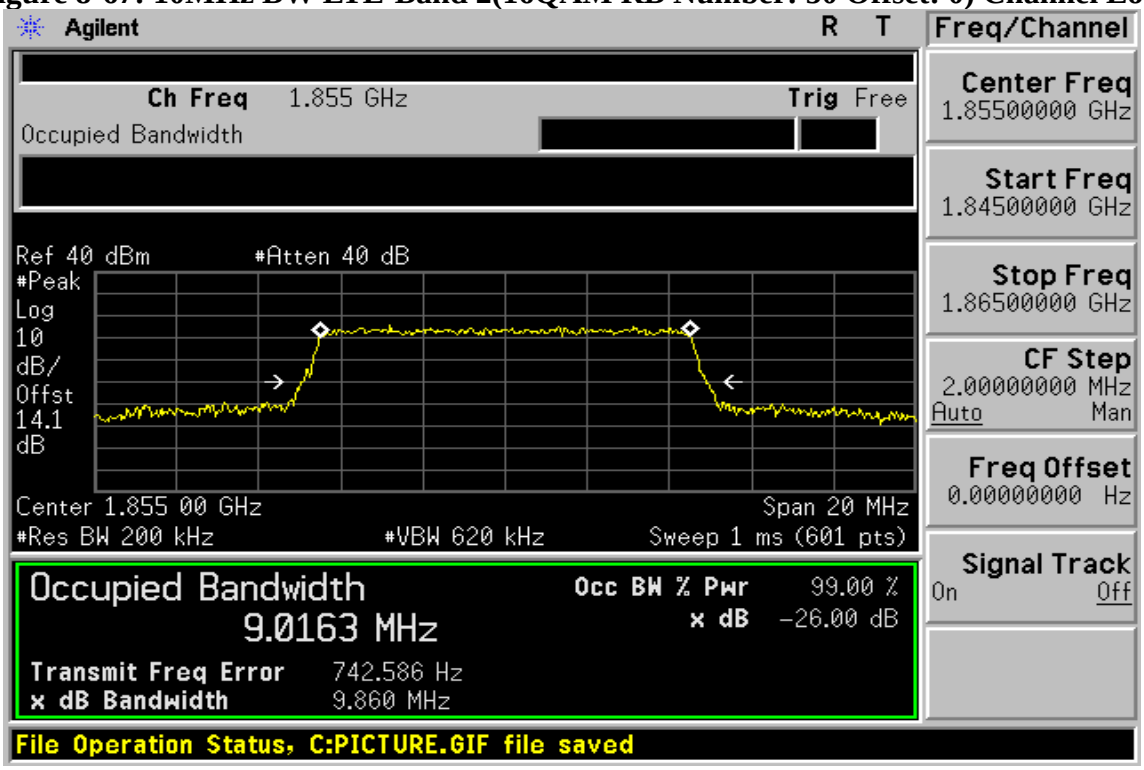

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Figure 8-68: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid

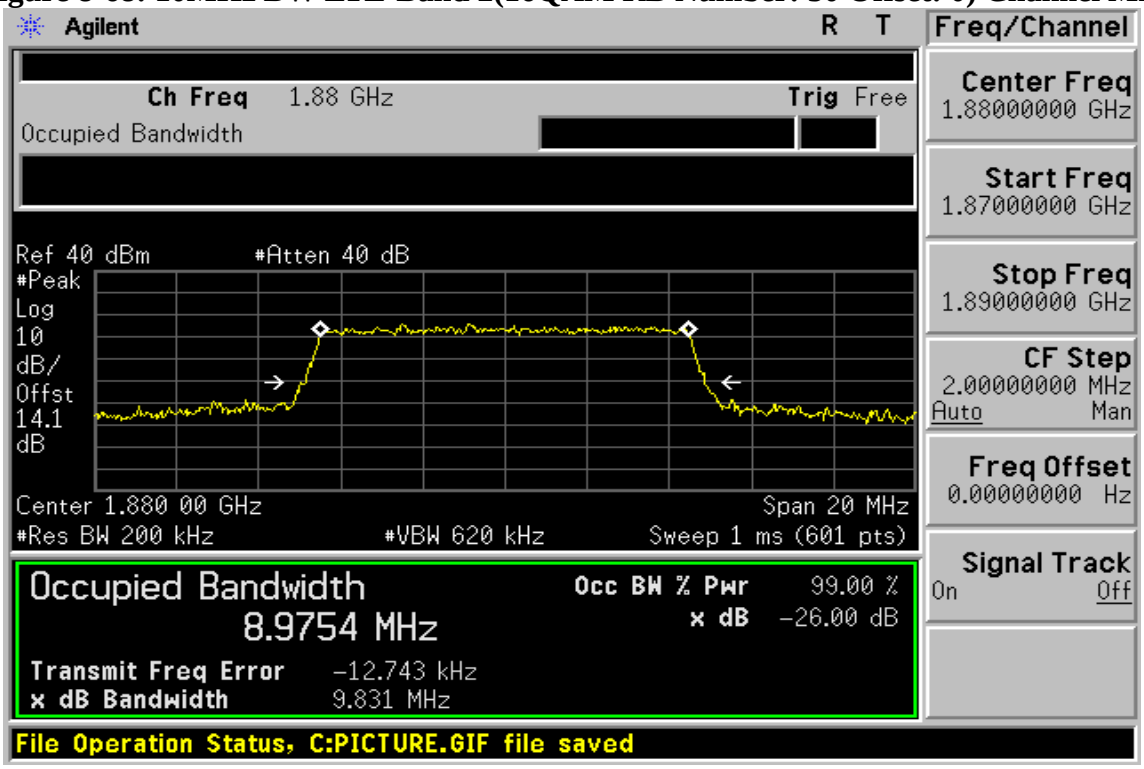

Figure 8-69: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel High

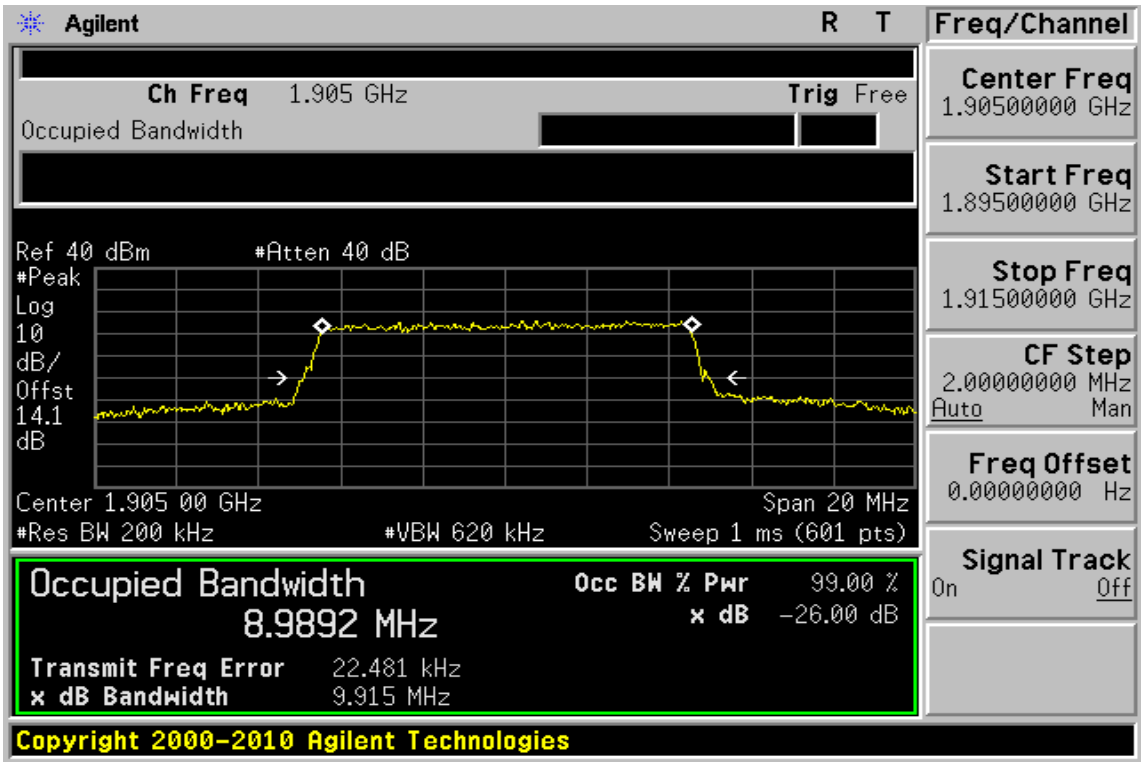

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Figure 8-70: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low

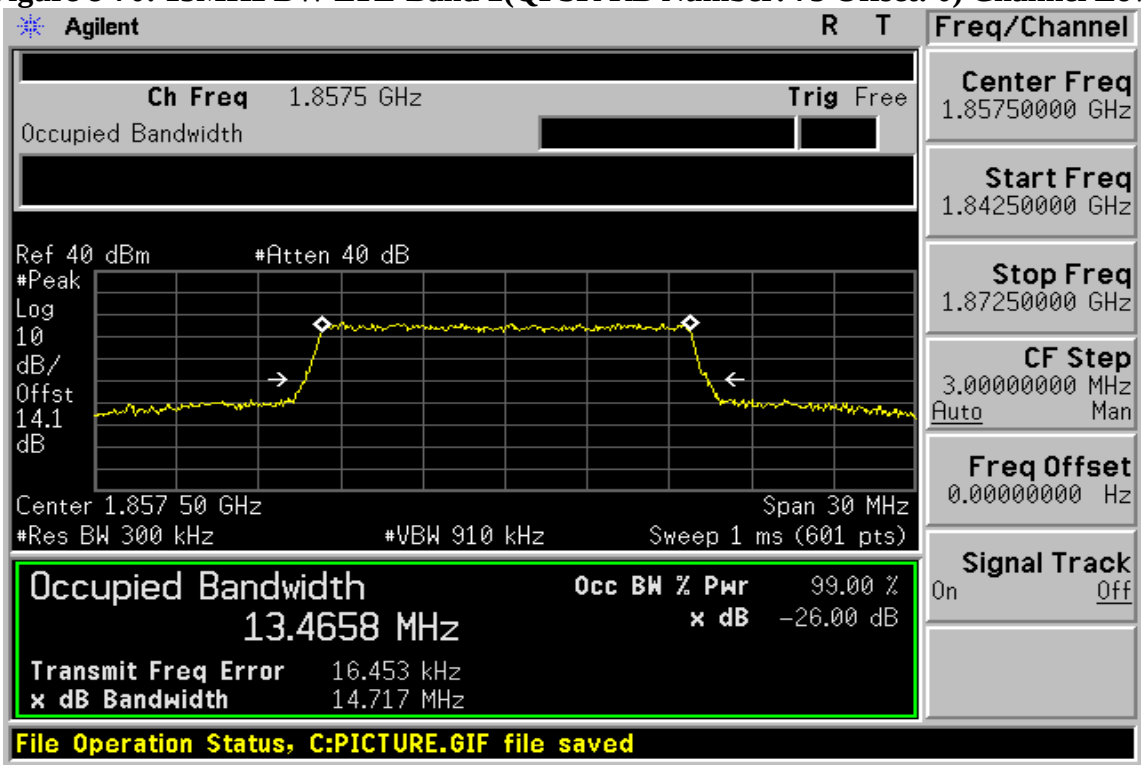

Figure 8-71: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Mid

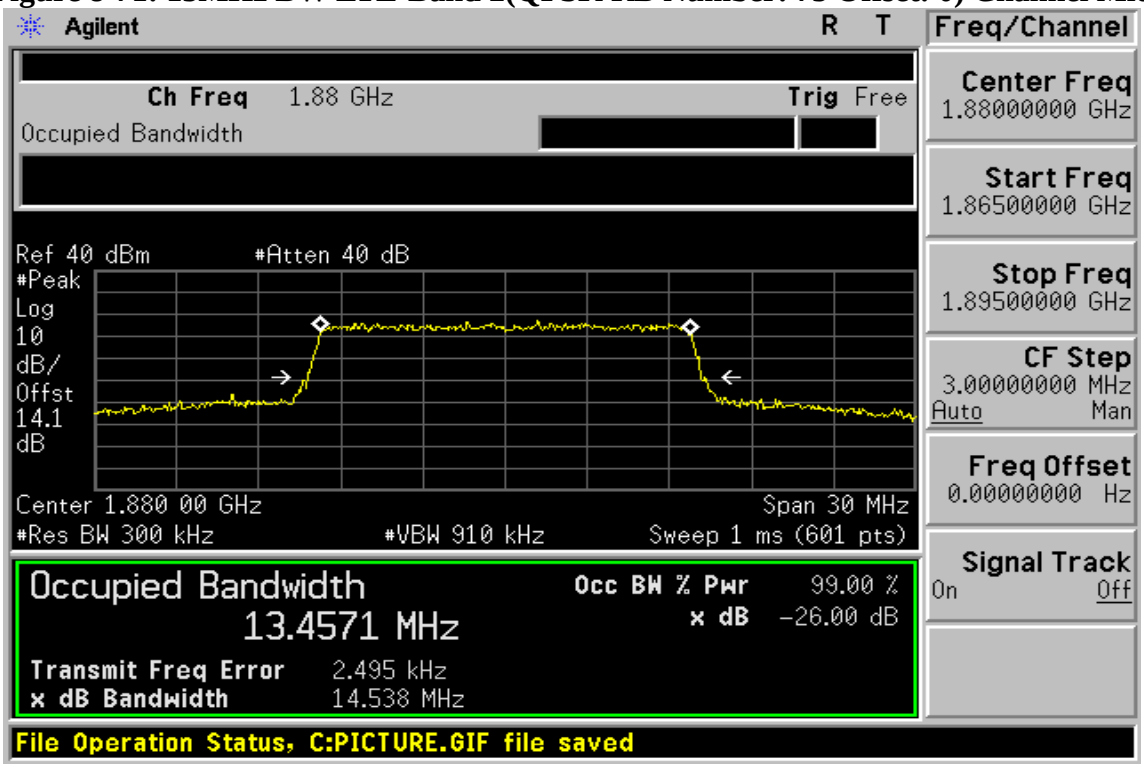

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Figure 8-72: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High

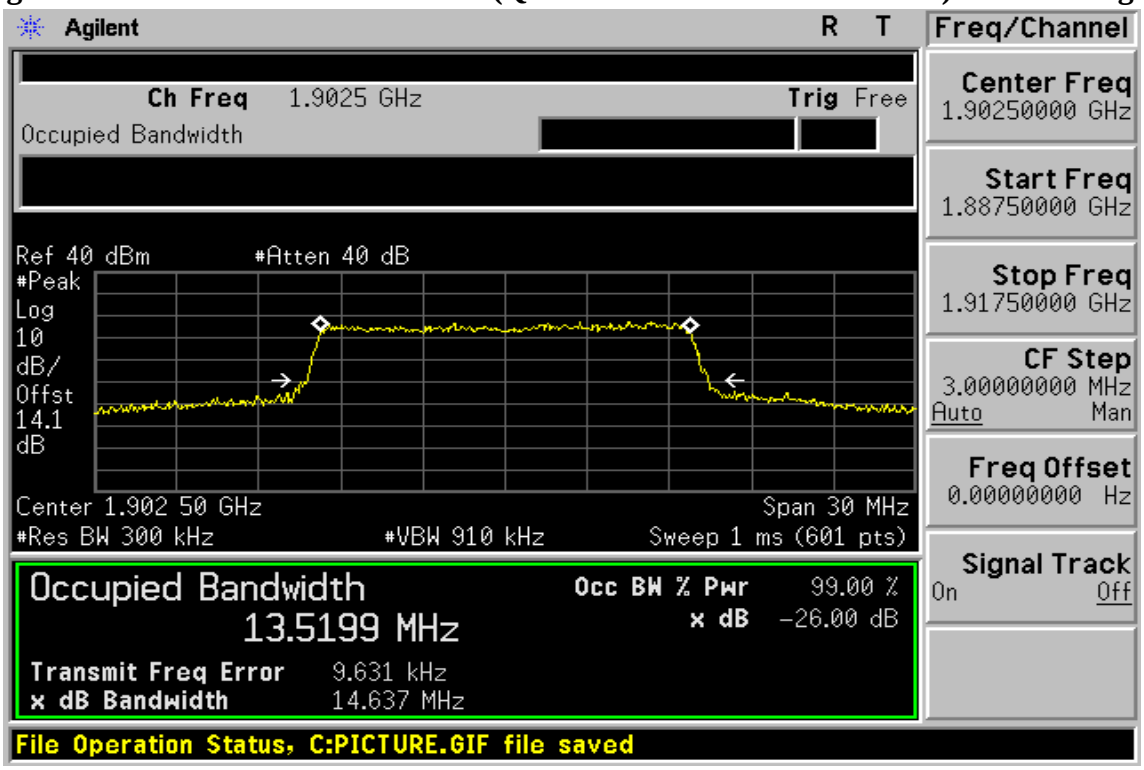

Figure 8-73: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Low

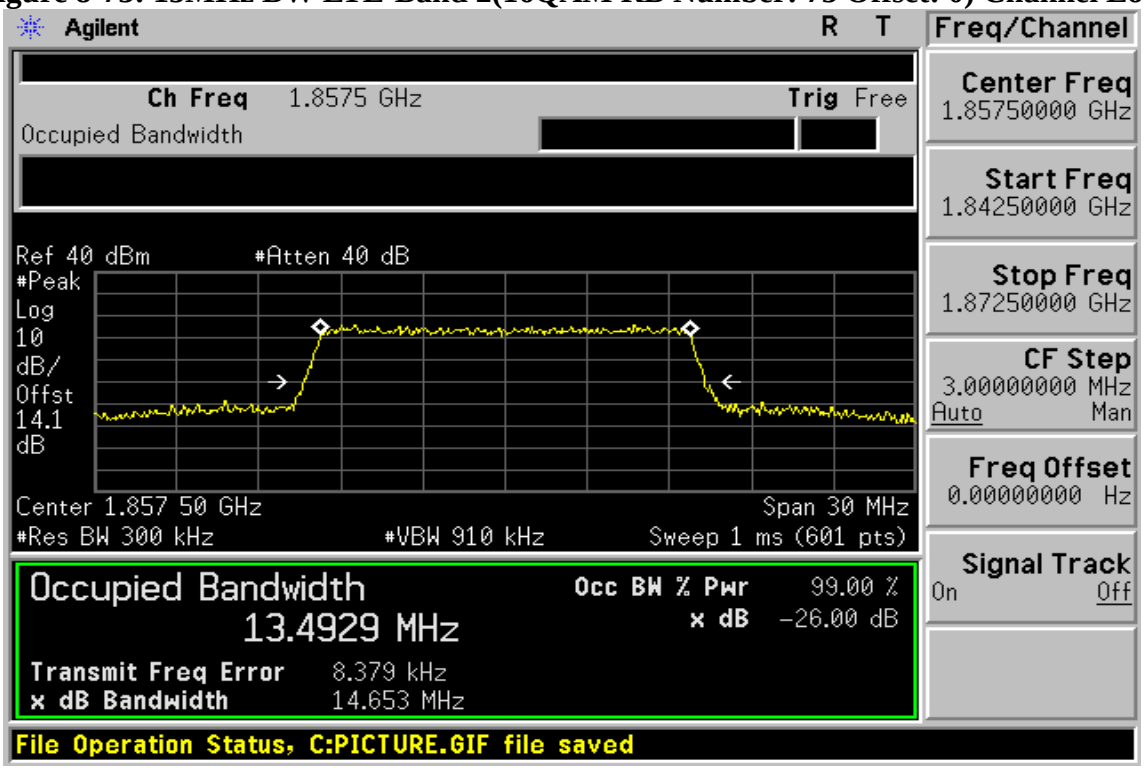

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Figure 8-74: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid

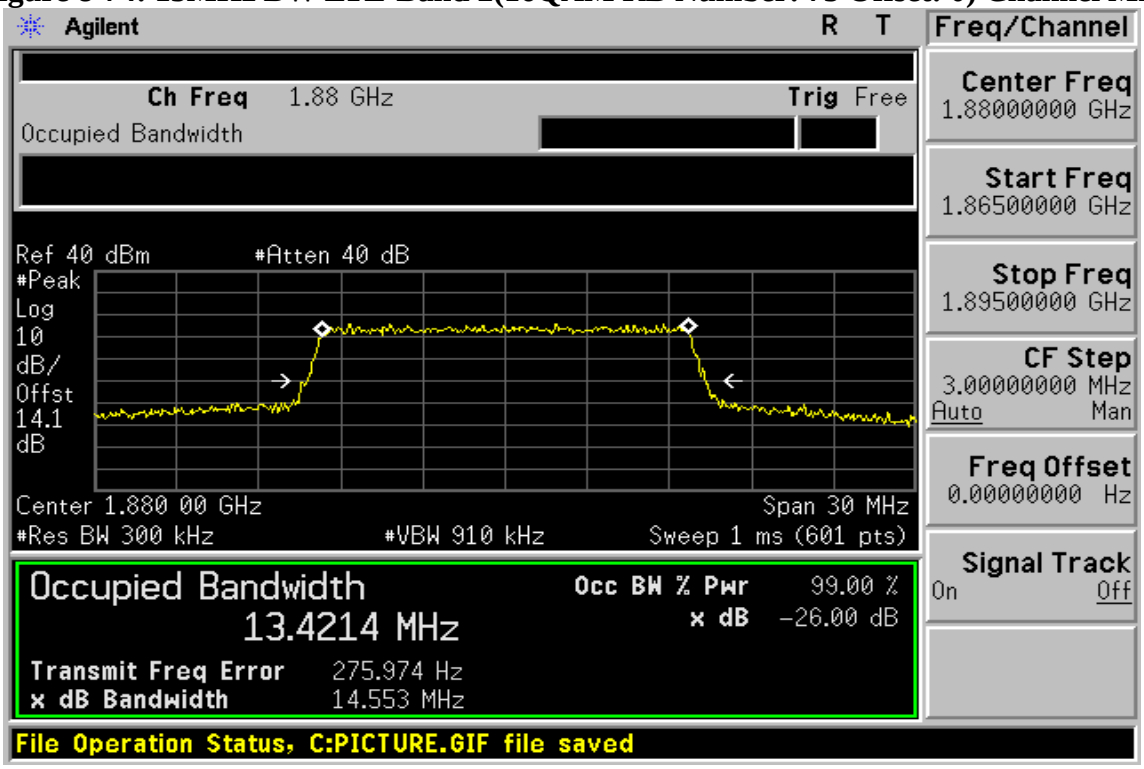

Figure 8-75: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel High

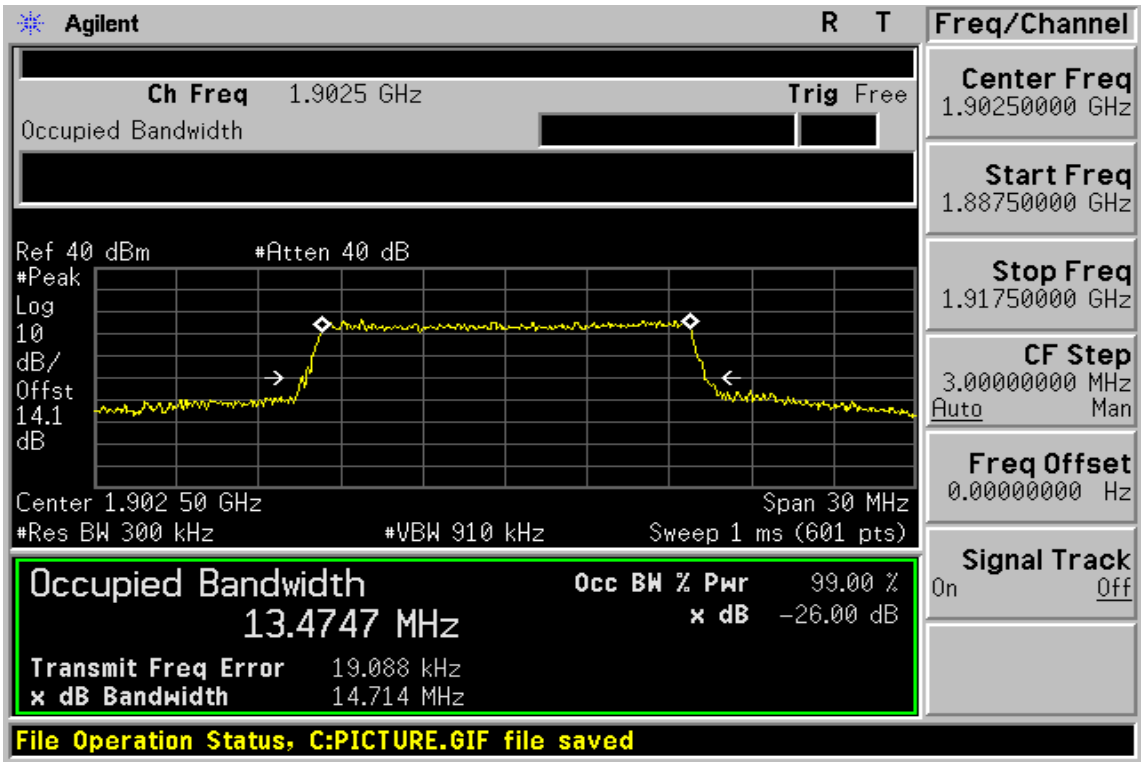

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Figure 8-76: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low

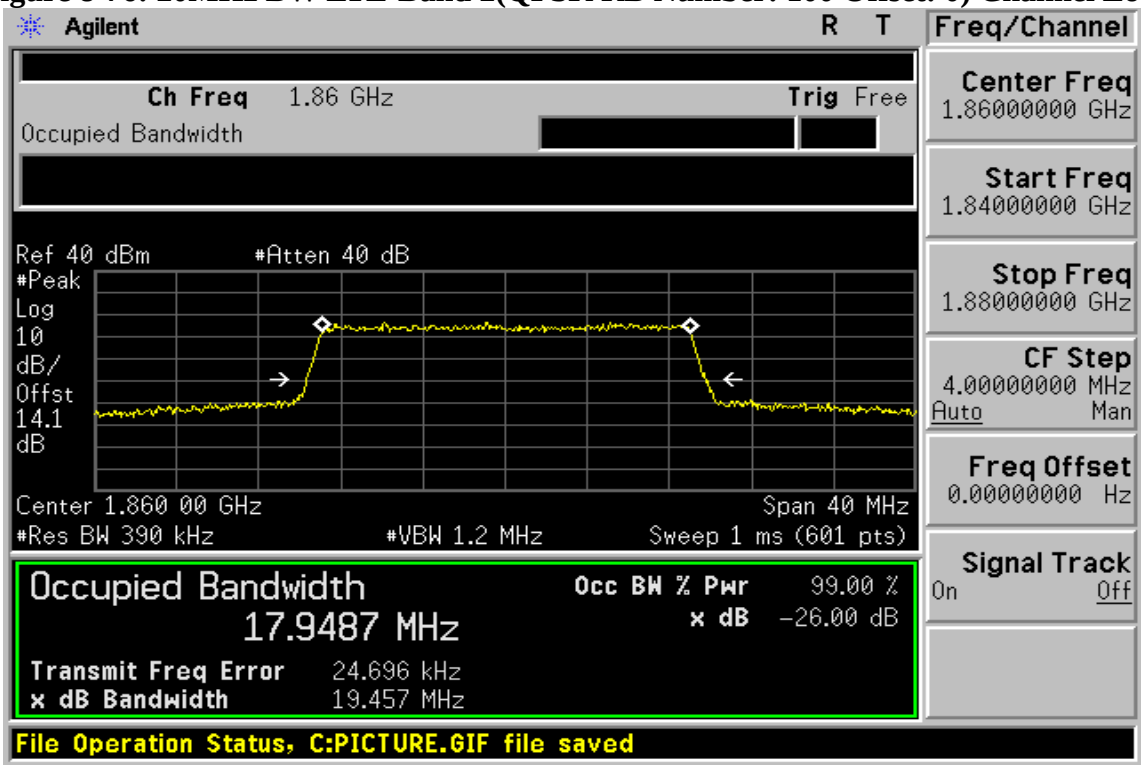

Figure 8-77: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Mid

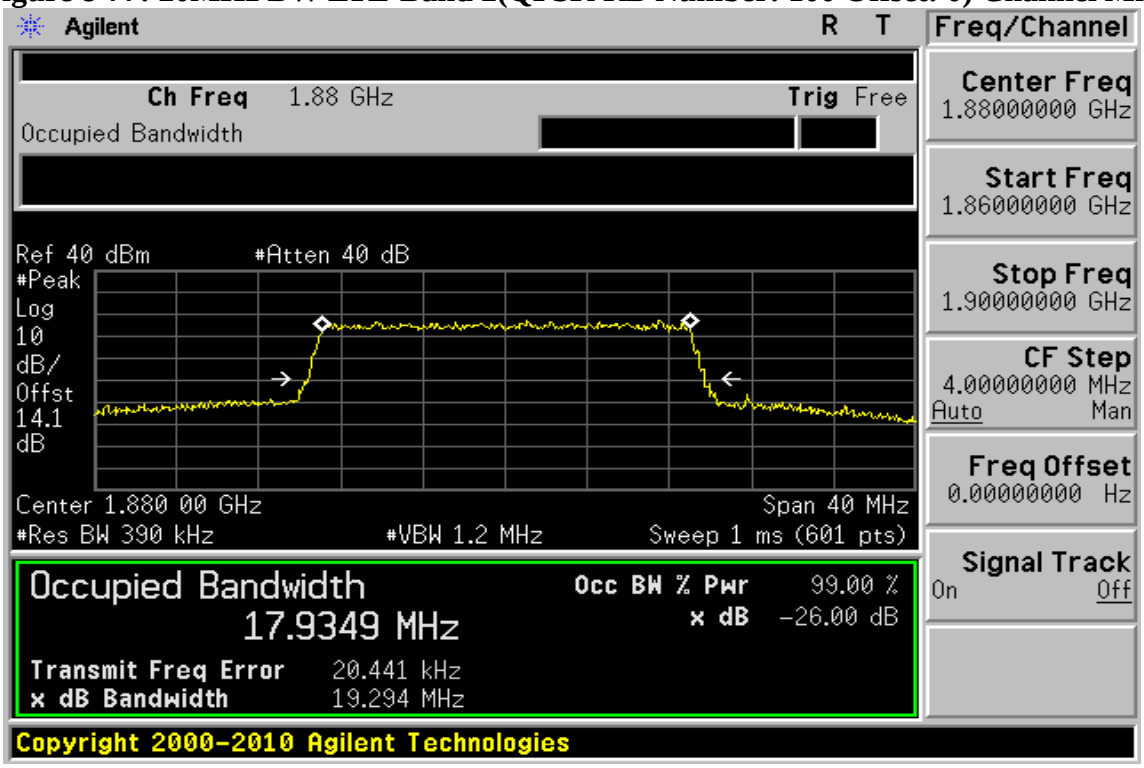

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Figure 8-78: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High

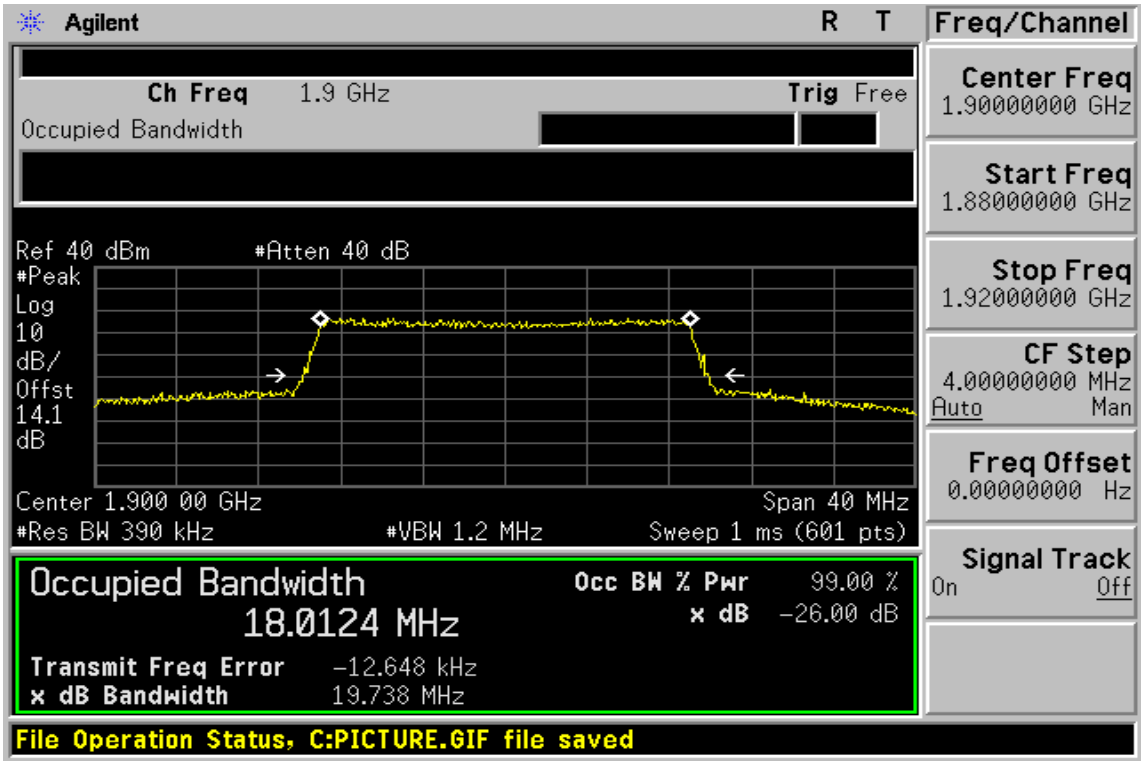

Figure 8-79: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Low

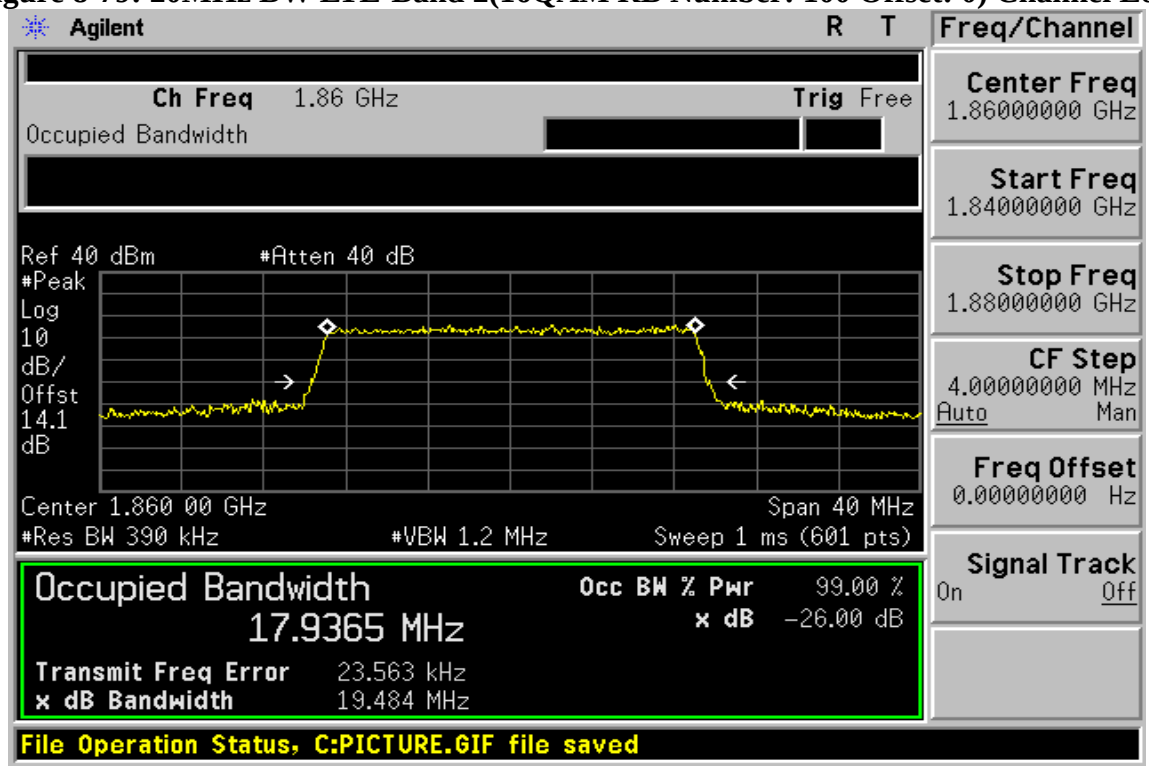

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Figure 8-80: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid

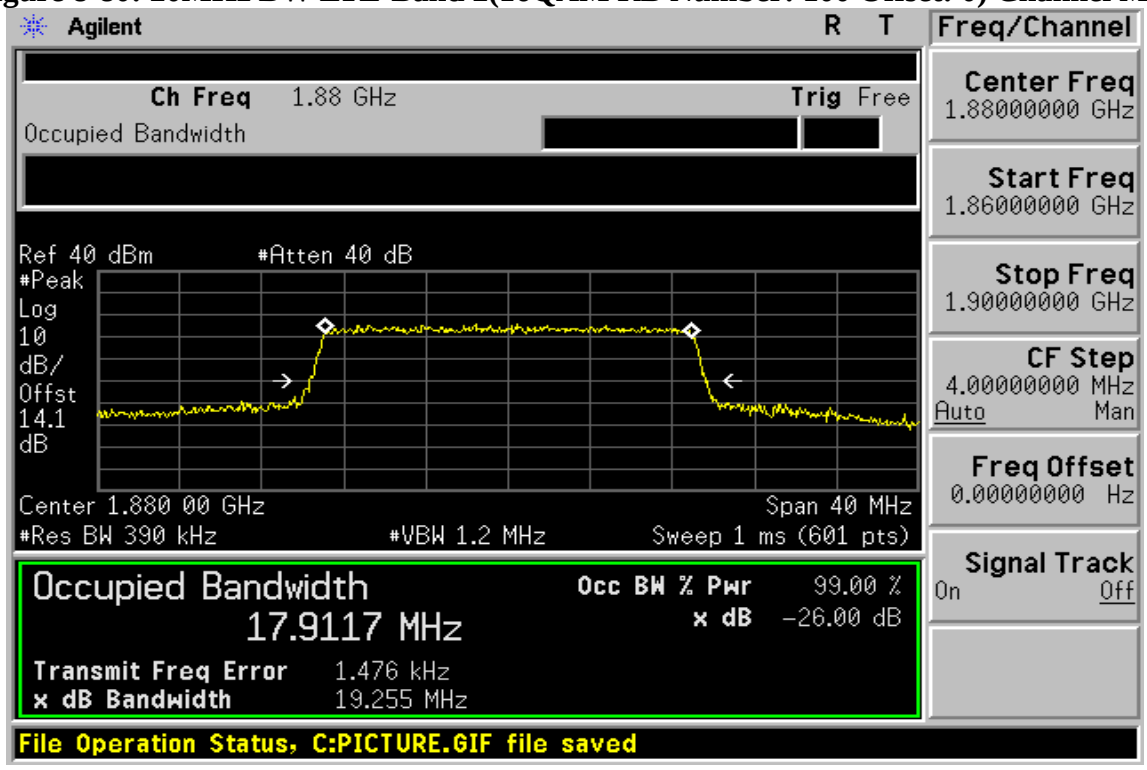

Figure 8-81: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel High

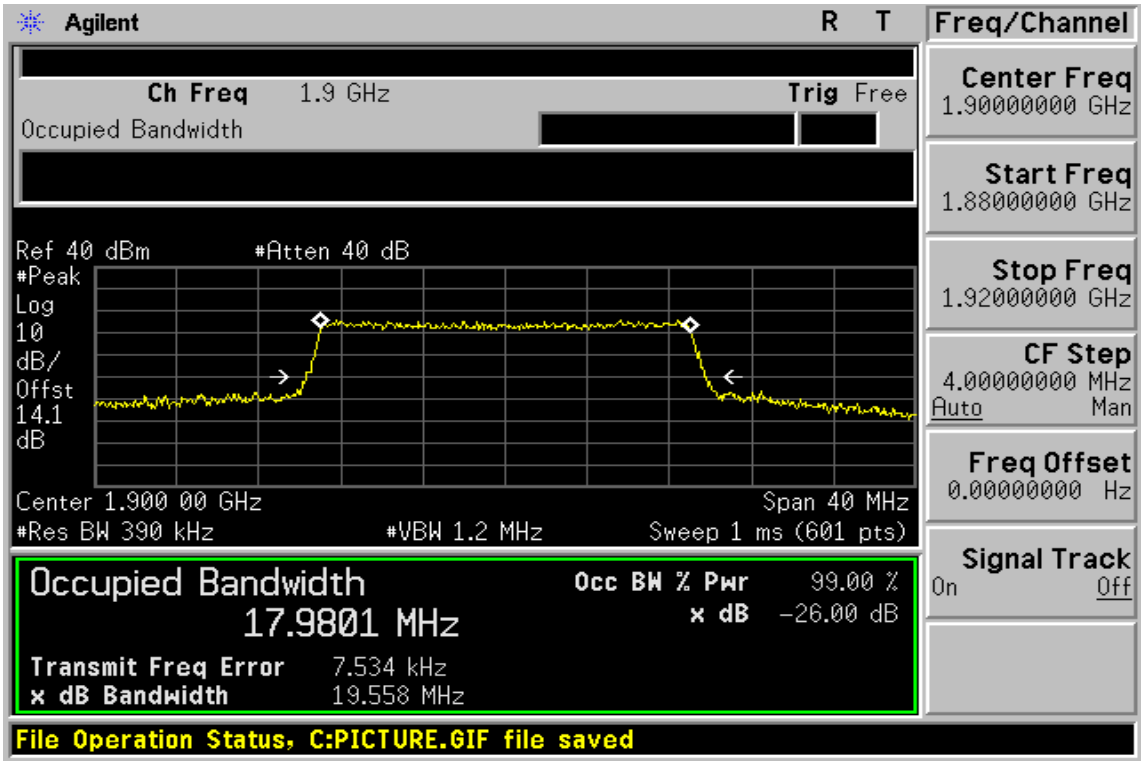

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Figure 8-82: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low

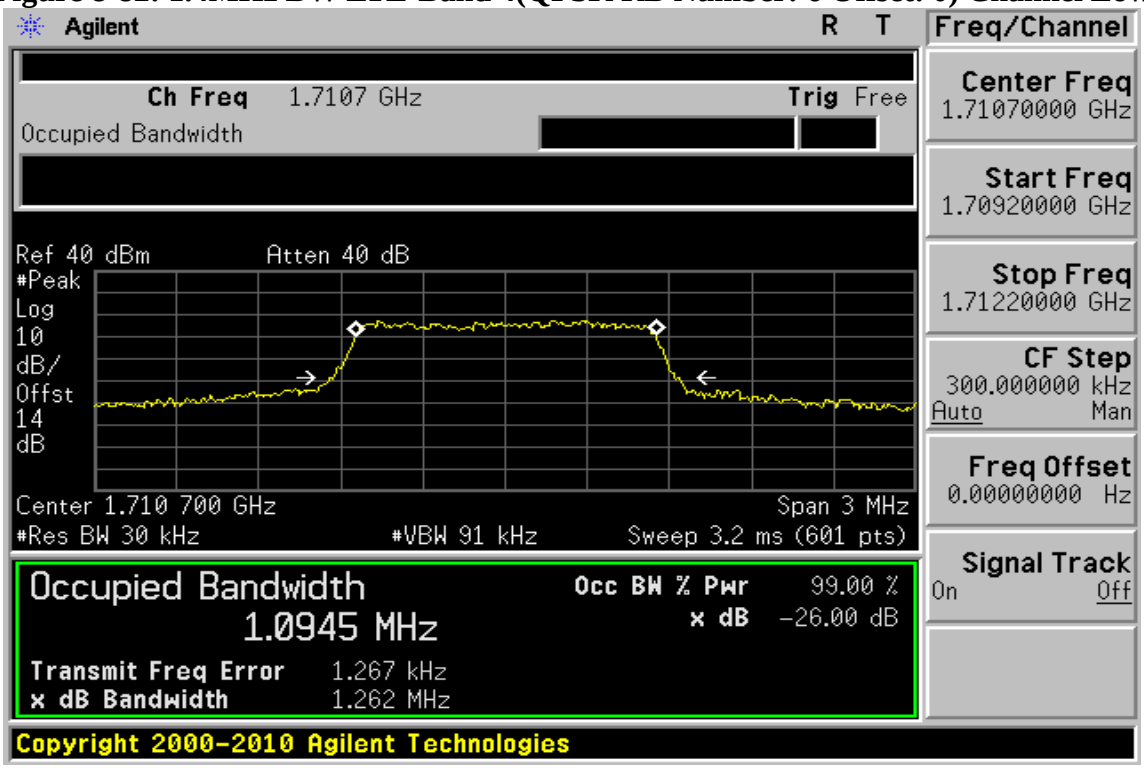

Figure 8-83: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Mid

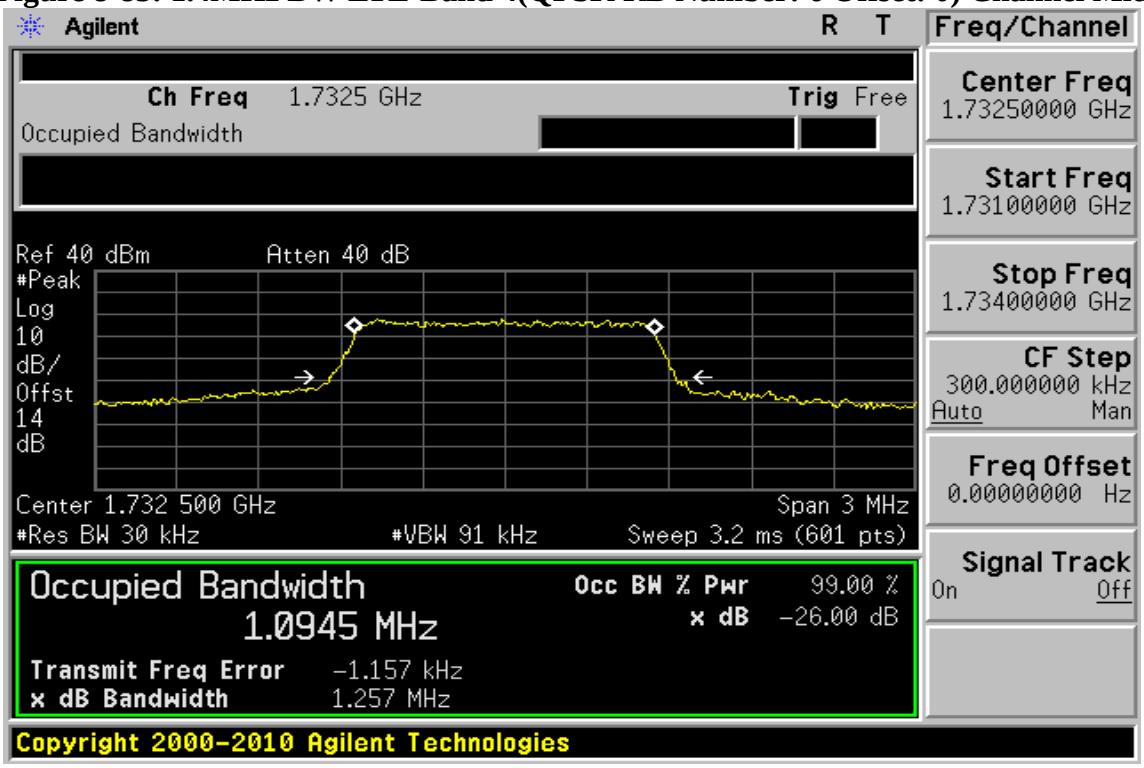

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Figure 8-84: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High

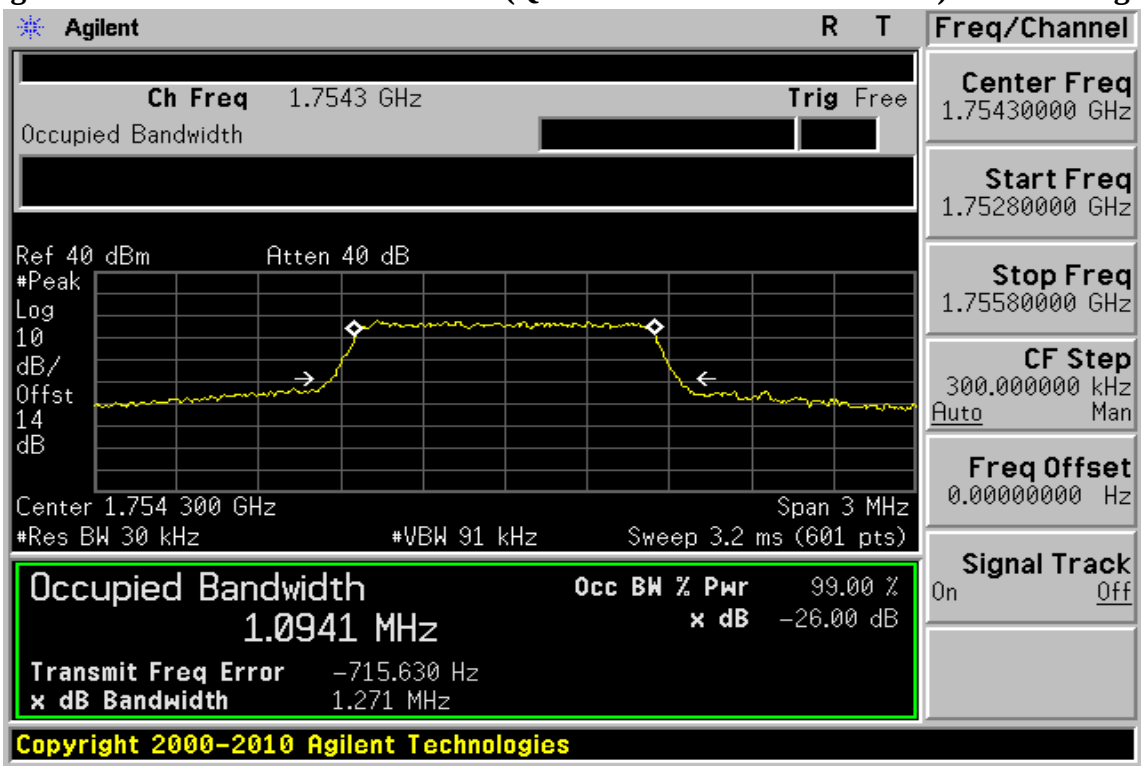

Figure 8-85: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Low

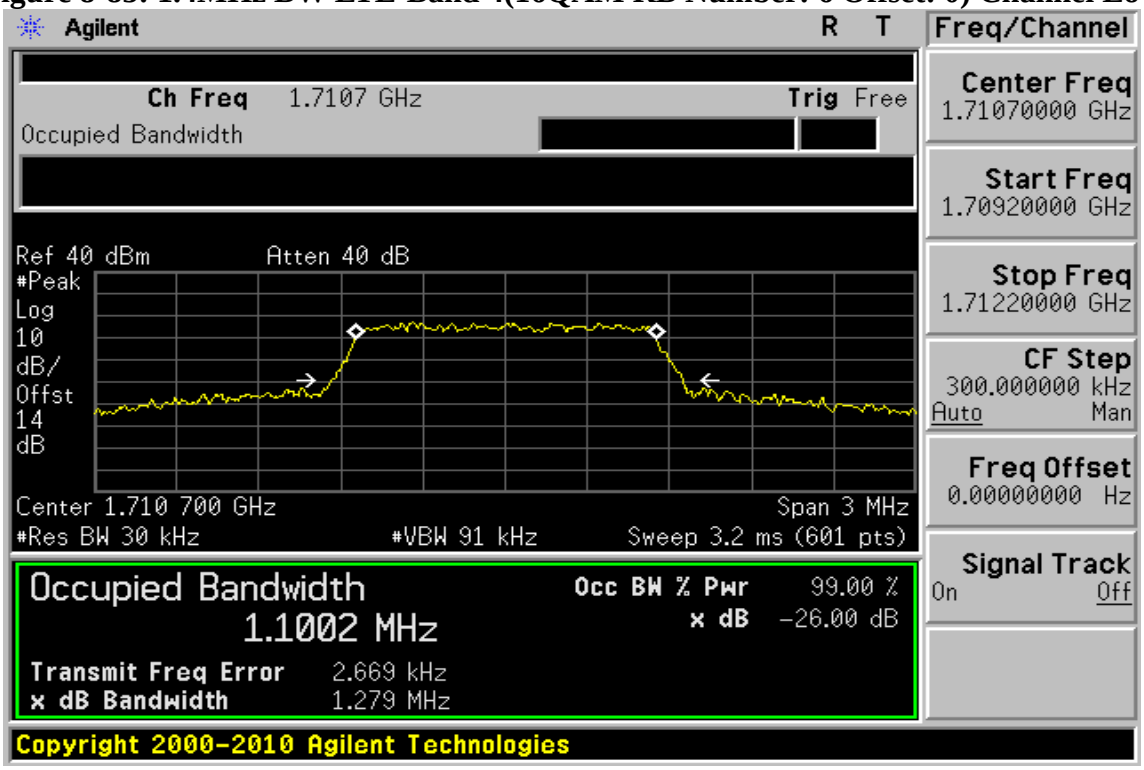

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Figure 8-86: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid

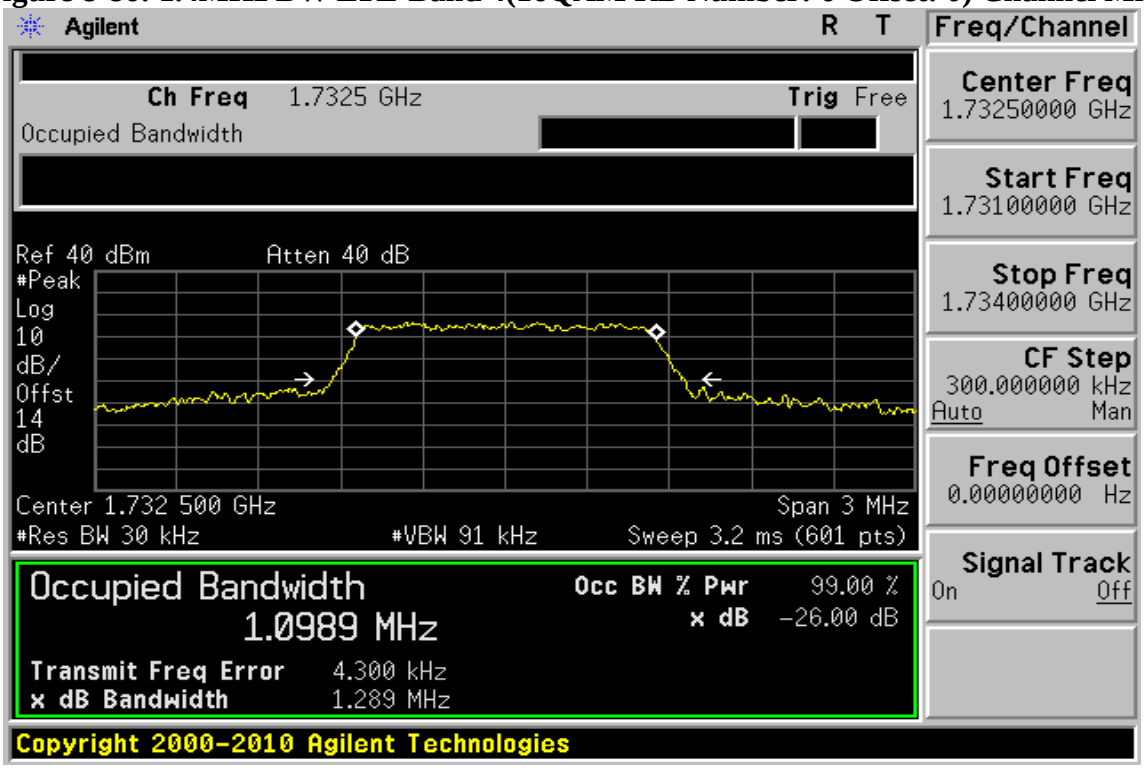

Figure 8-87: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel High

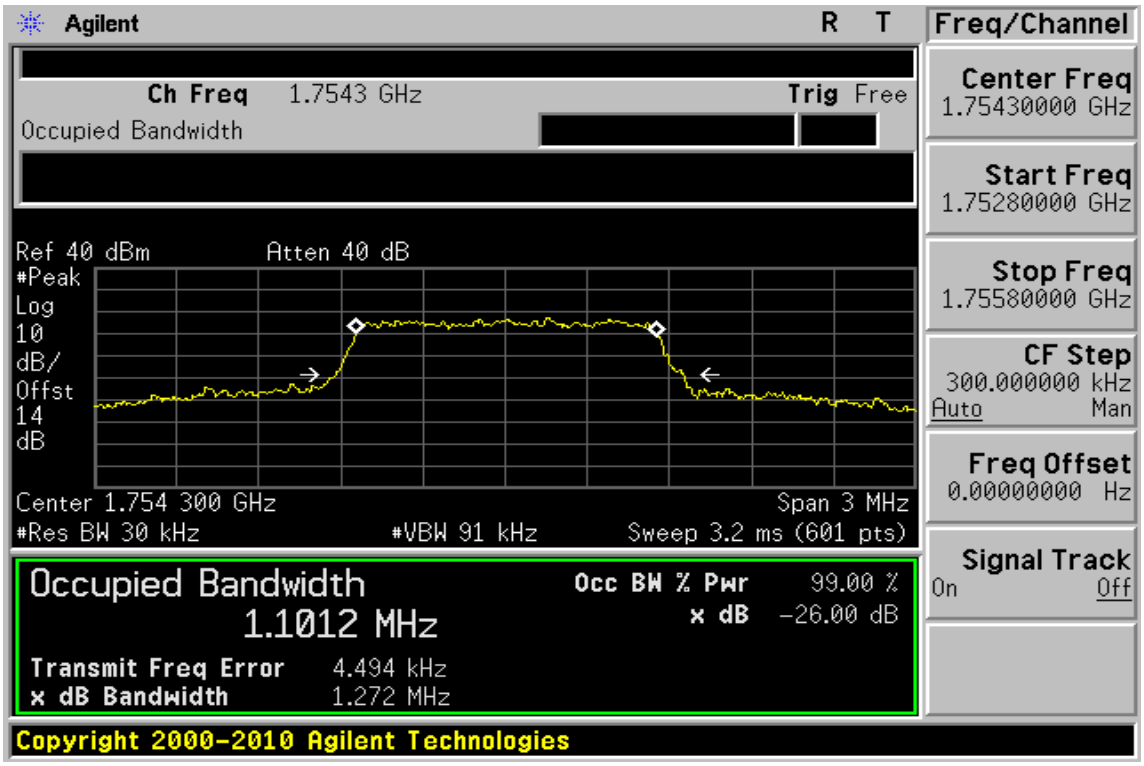

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Figure 8-88: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low

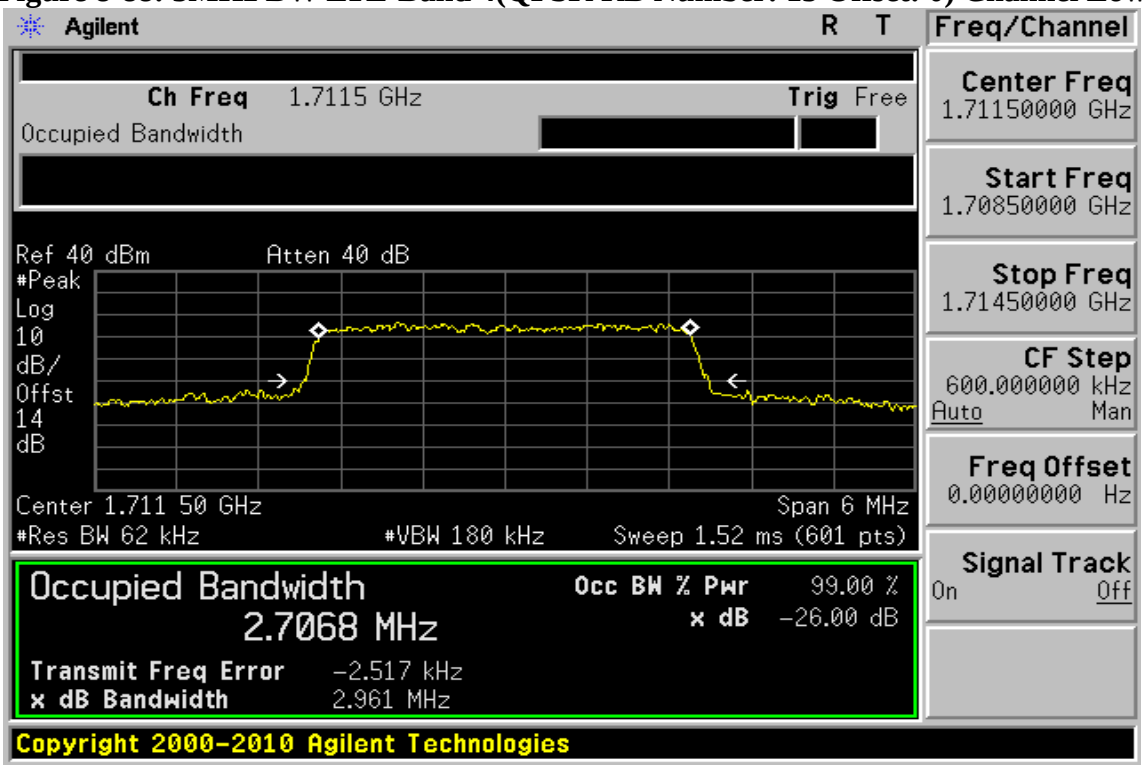

Figure 8-89: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Mid

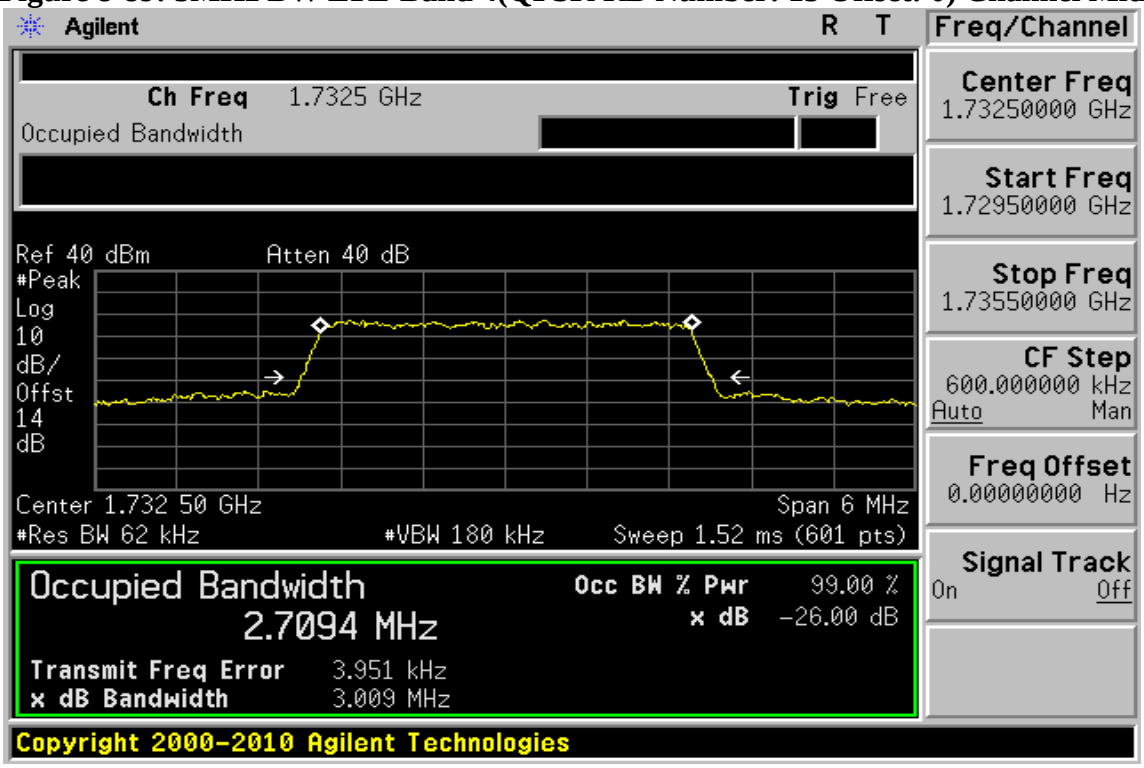

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Figure 8-90: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High

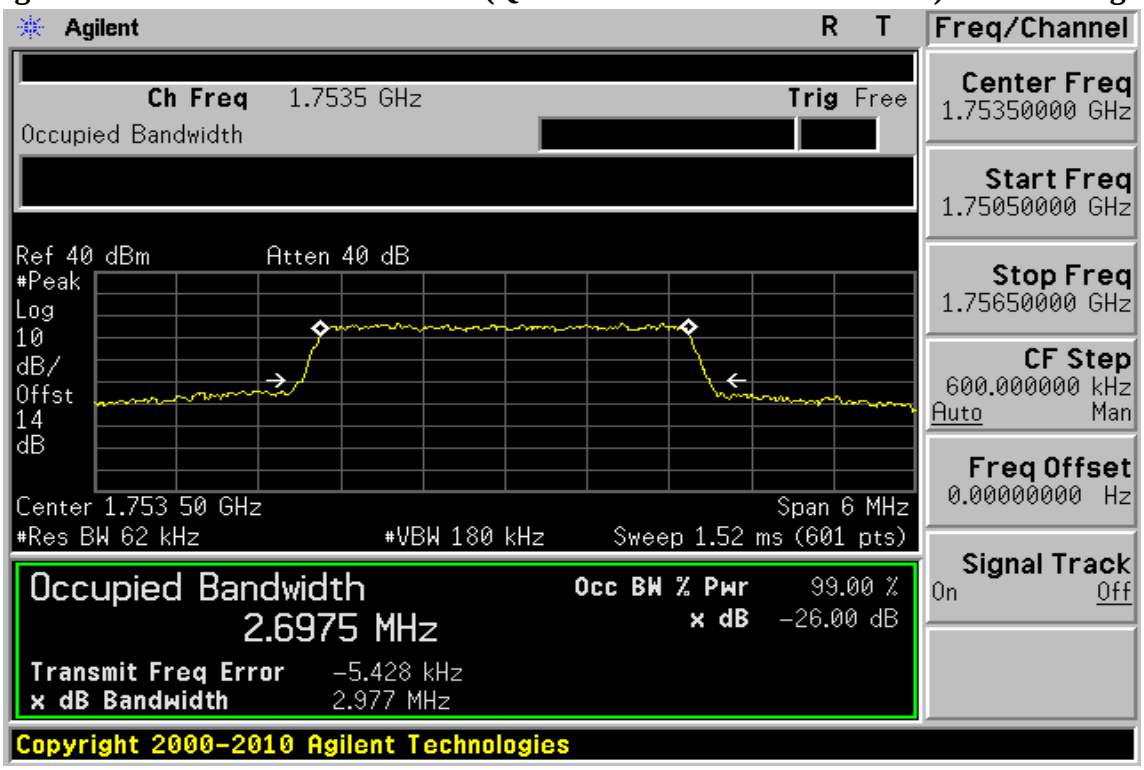

Figure 8-91: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Low

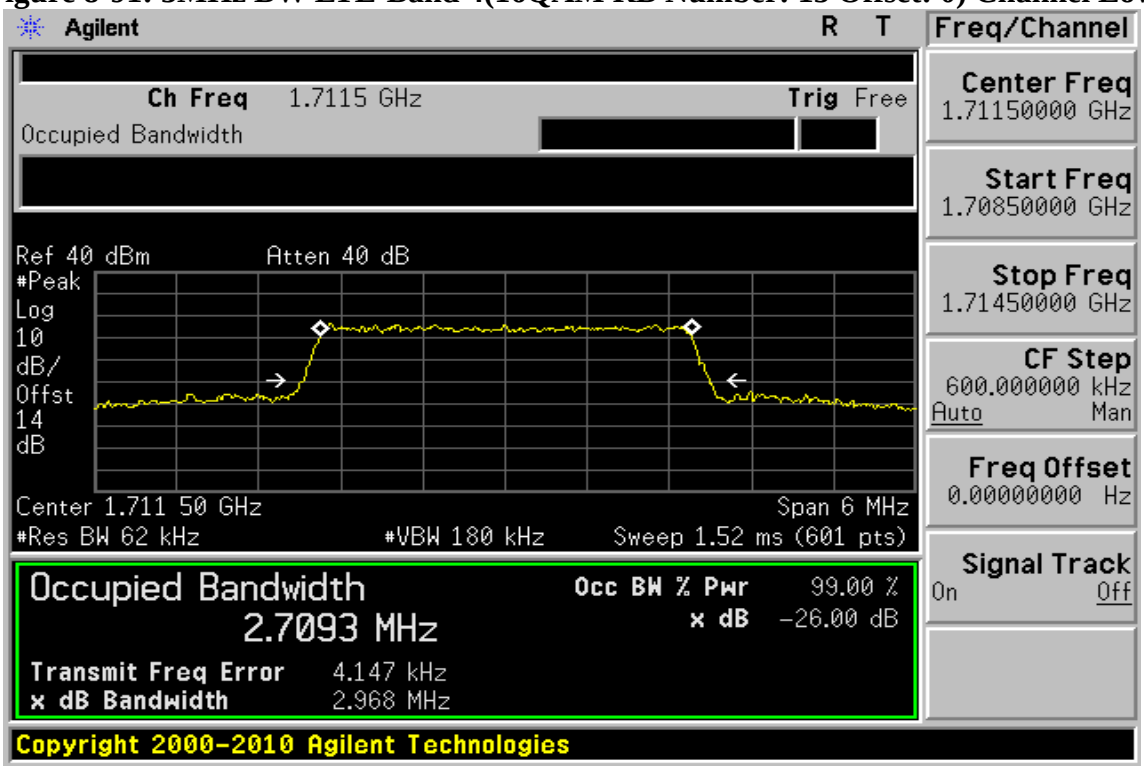

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Figure 8-92: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid

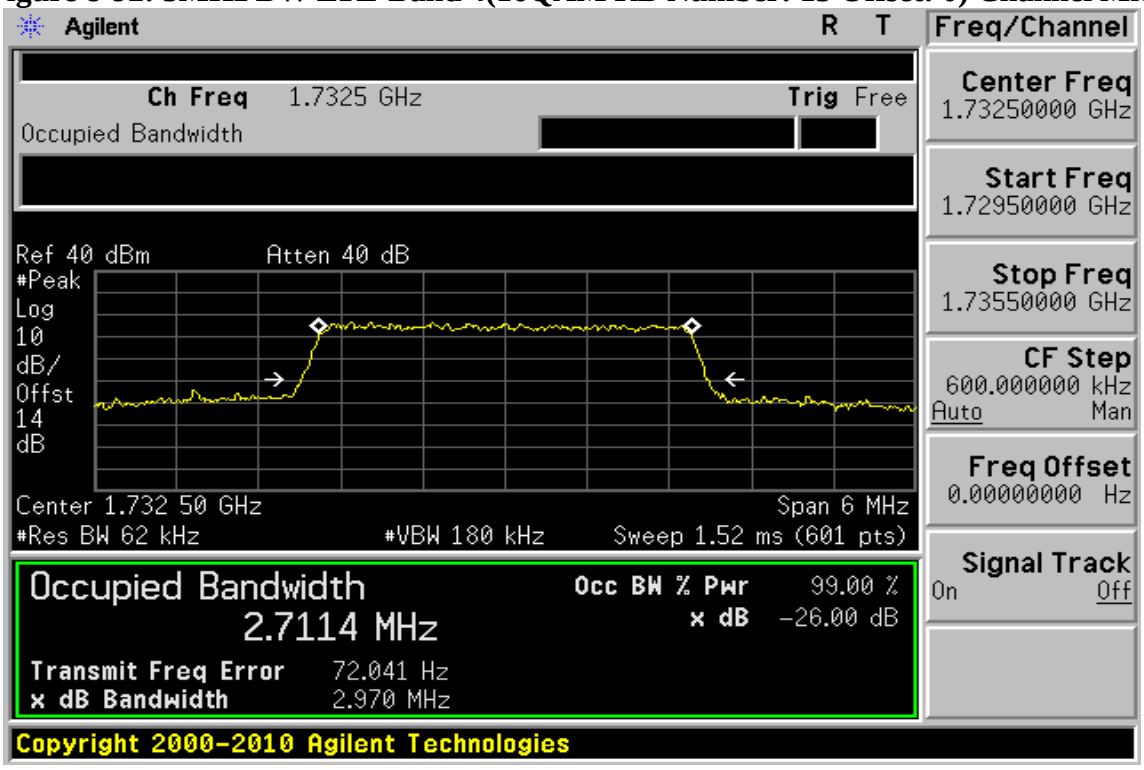

Figure 8-93: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel High

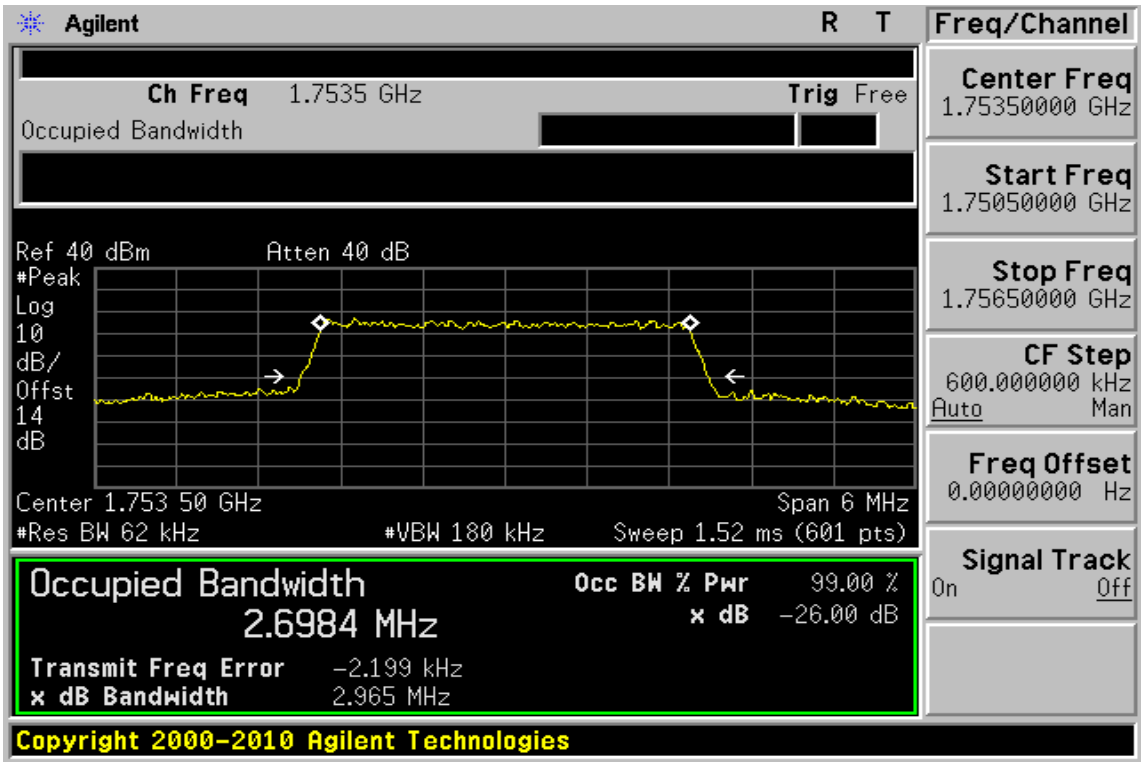

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Figure 8-94: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low

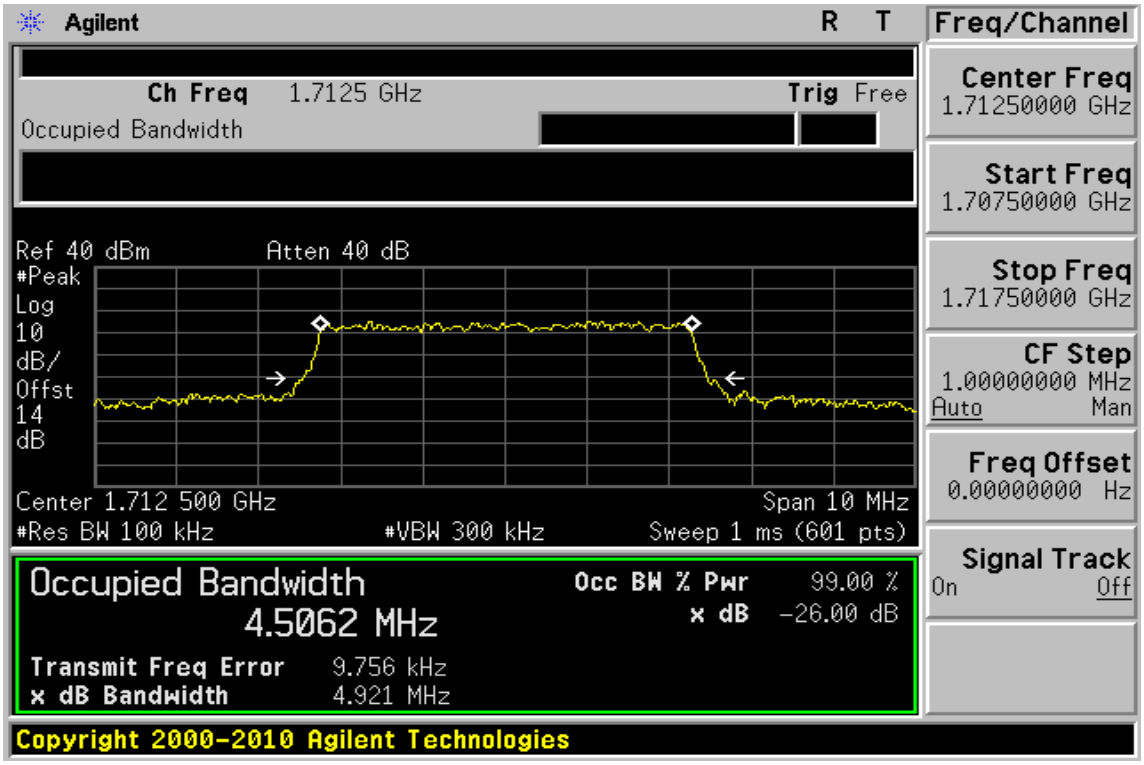

Figure 8-95: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Mid

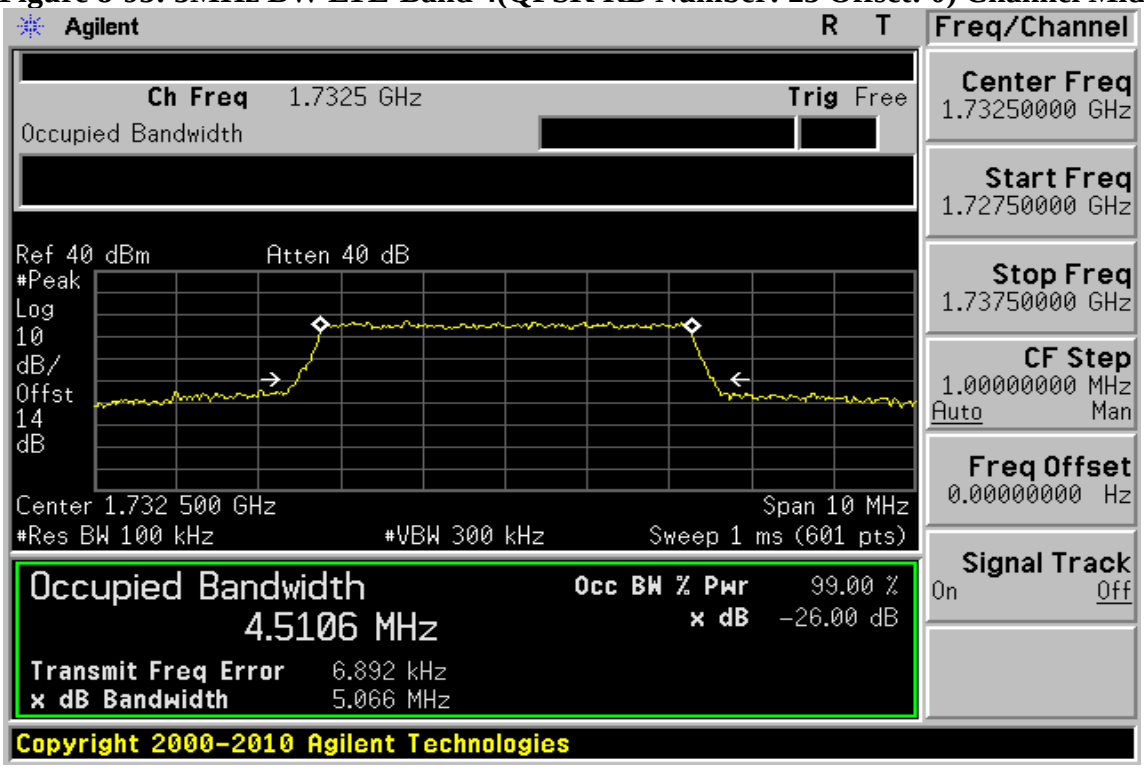

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Figure 8-96: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High

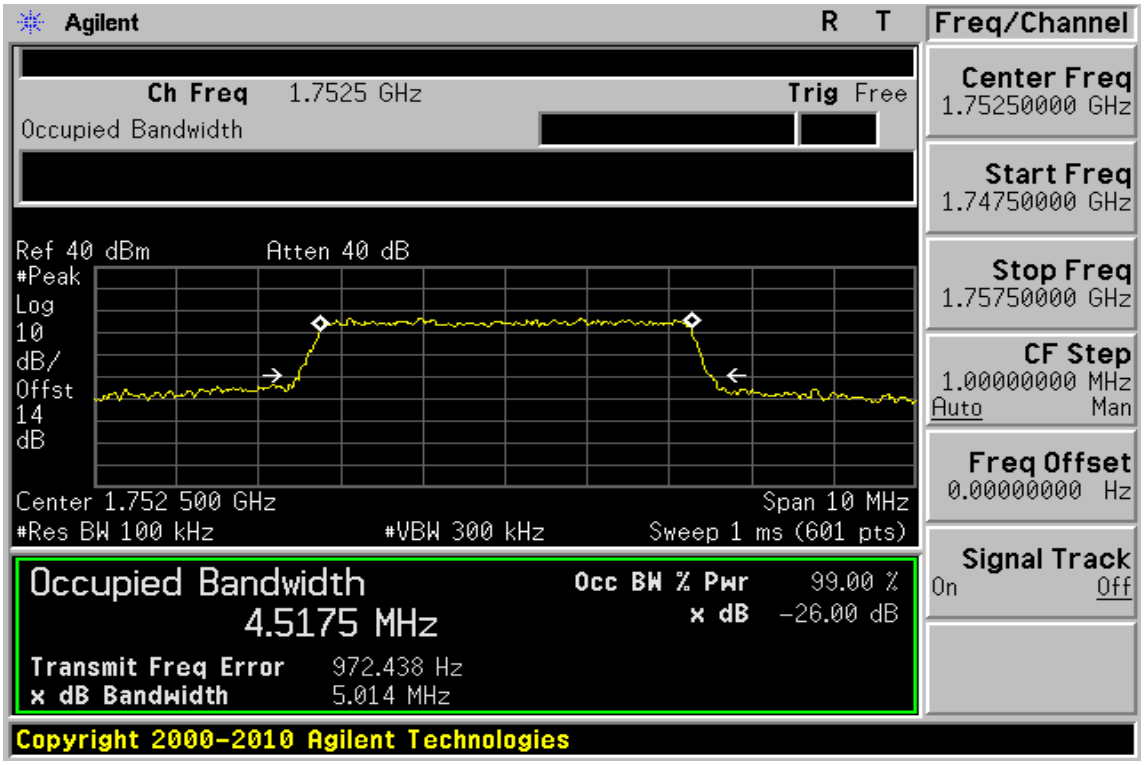

Figure 8-97: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Low

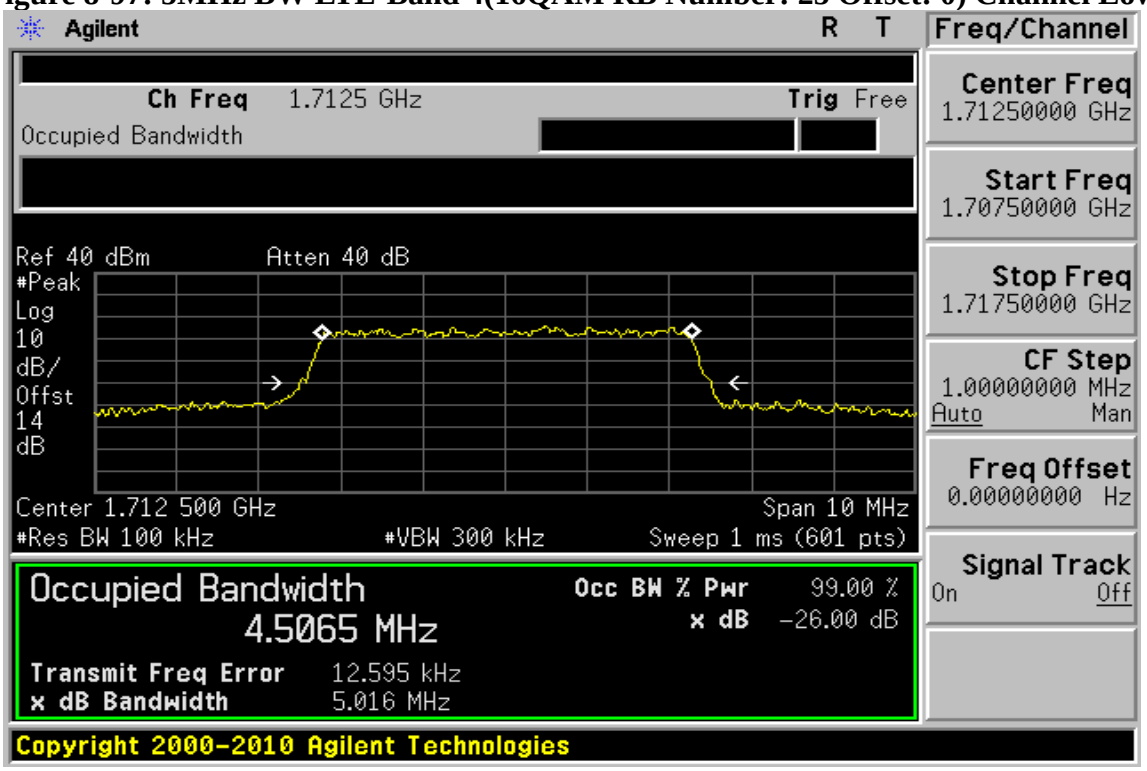

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Figure 8-98: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid

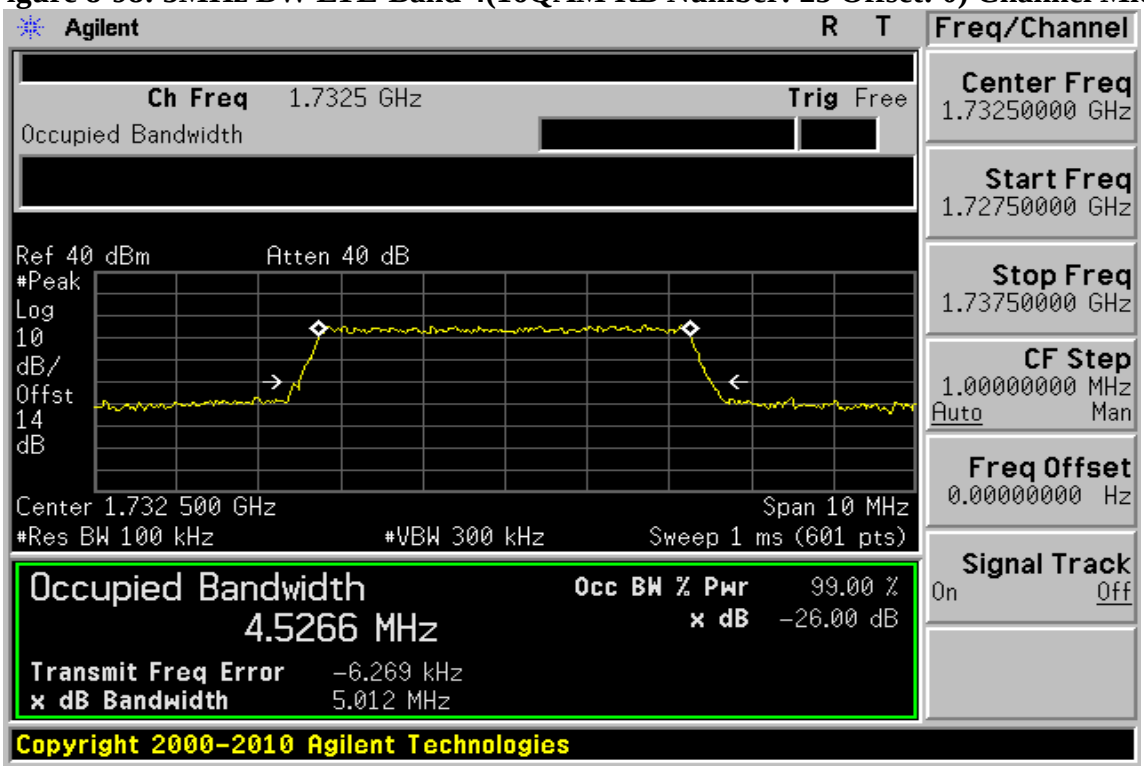

Figure 8-99: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel High

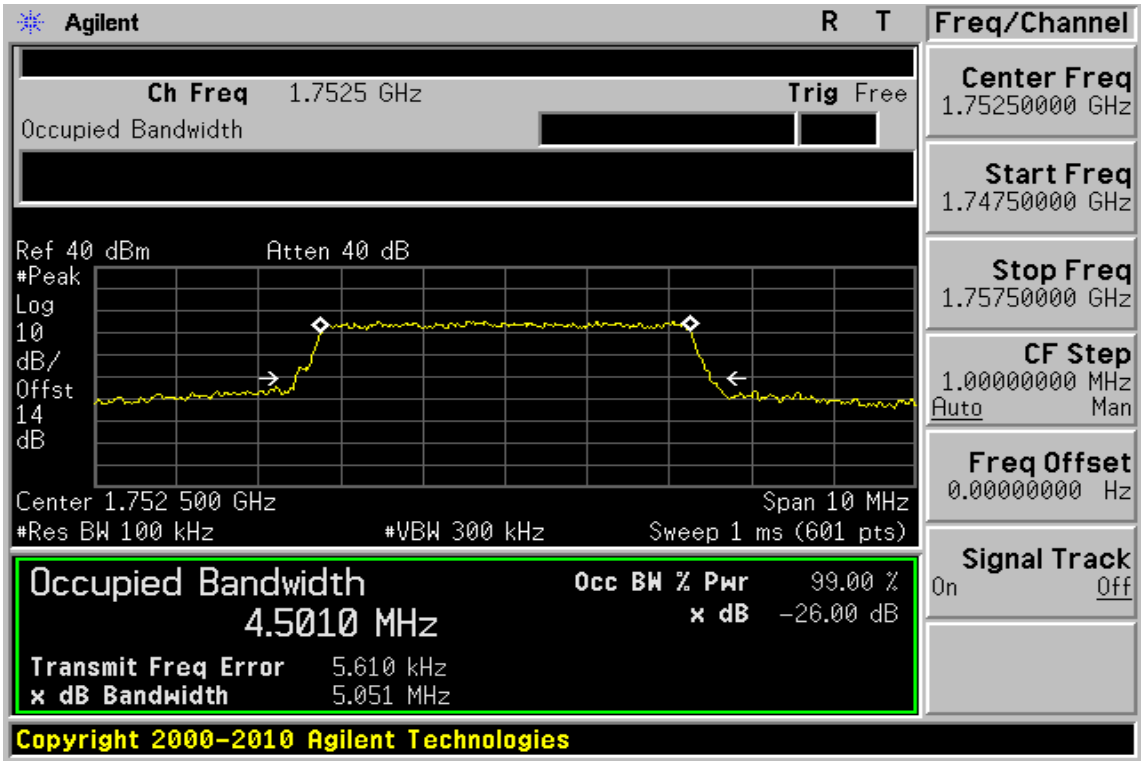

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Figure 8-100: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low

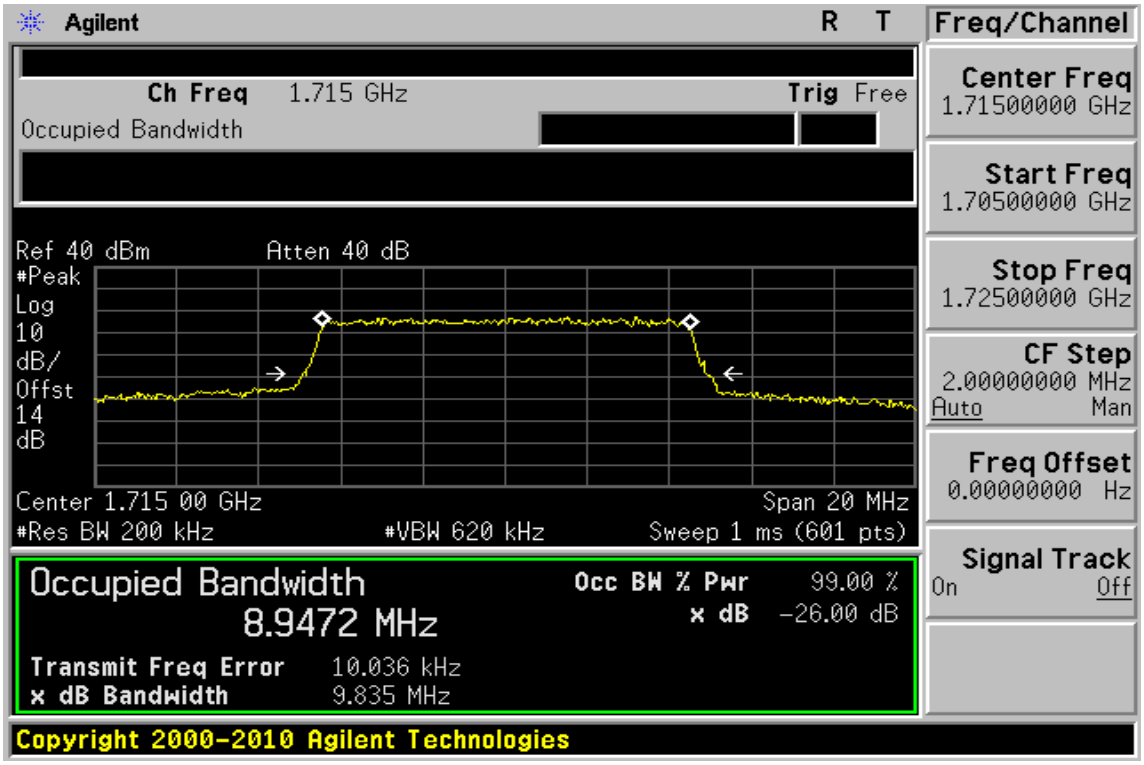

Figure 8-101: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Mid

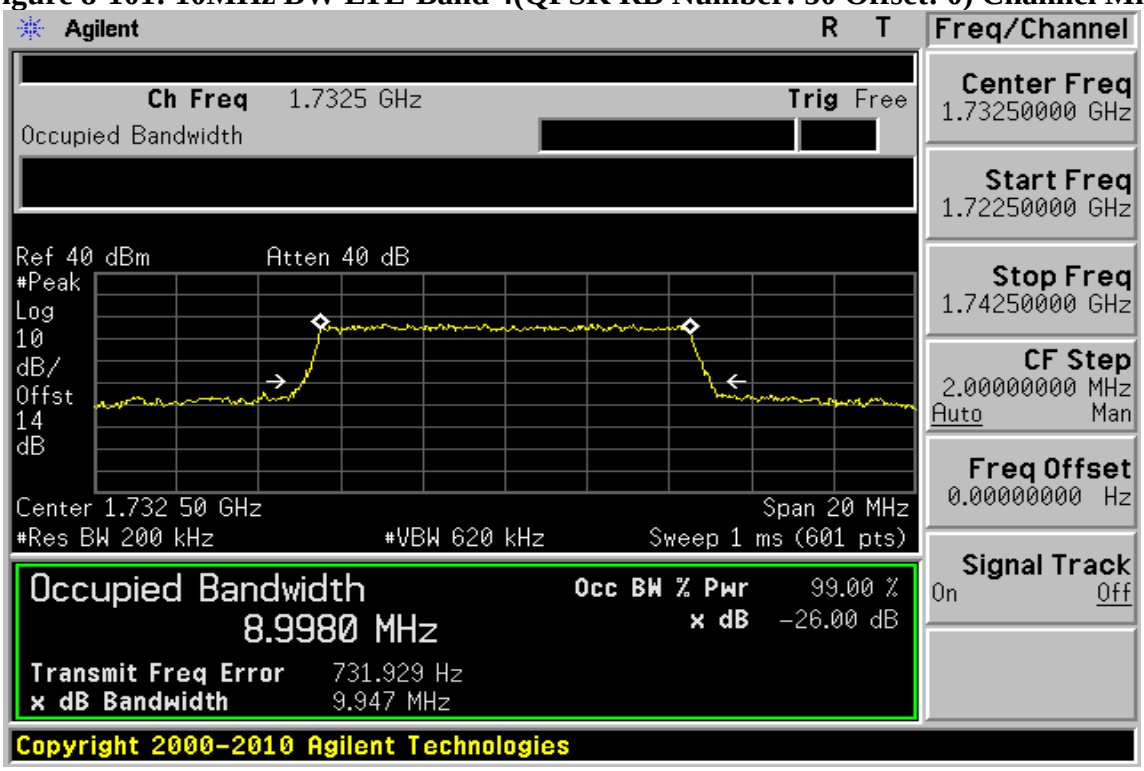

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Figure 8-102: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High

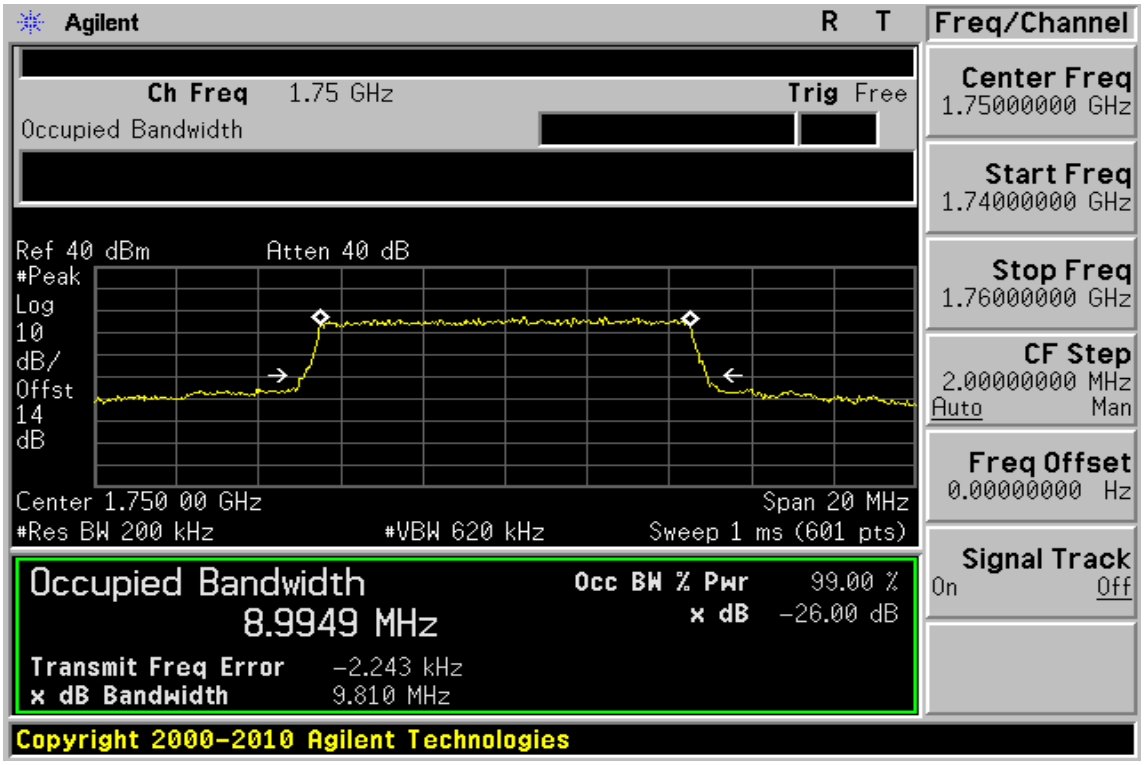

Figure 8-103: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Low

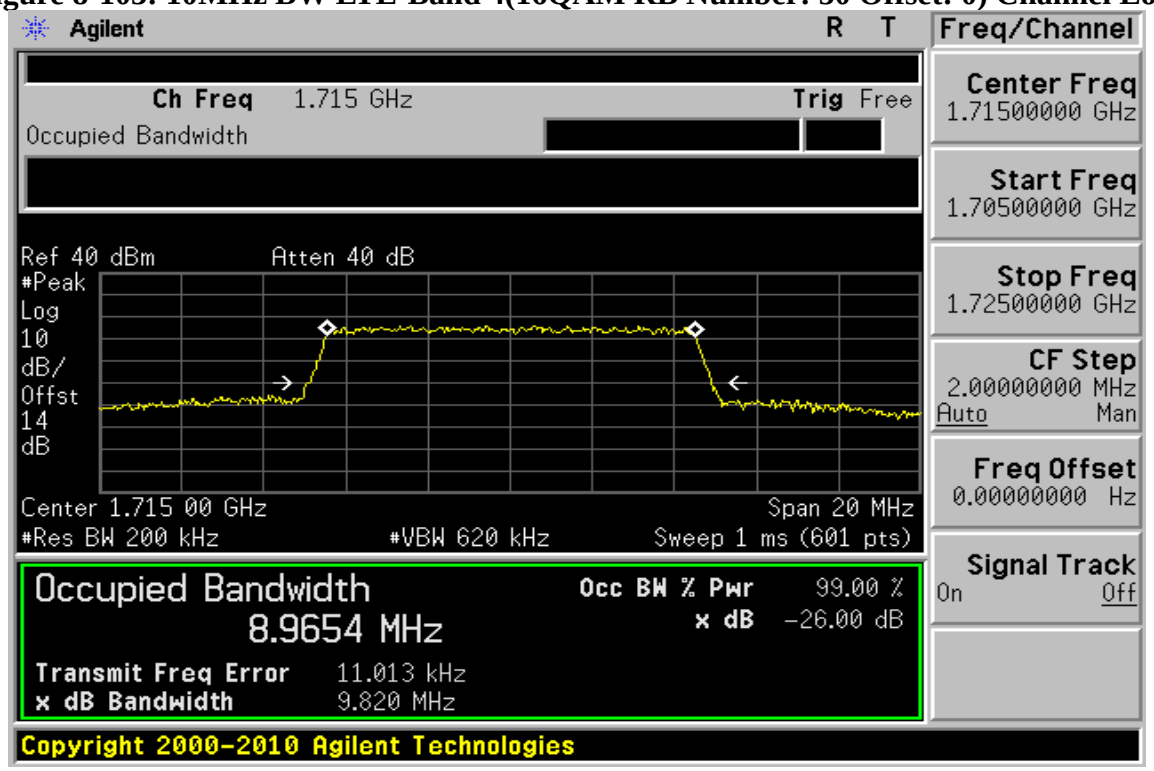

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Figure 8-104: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid

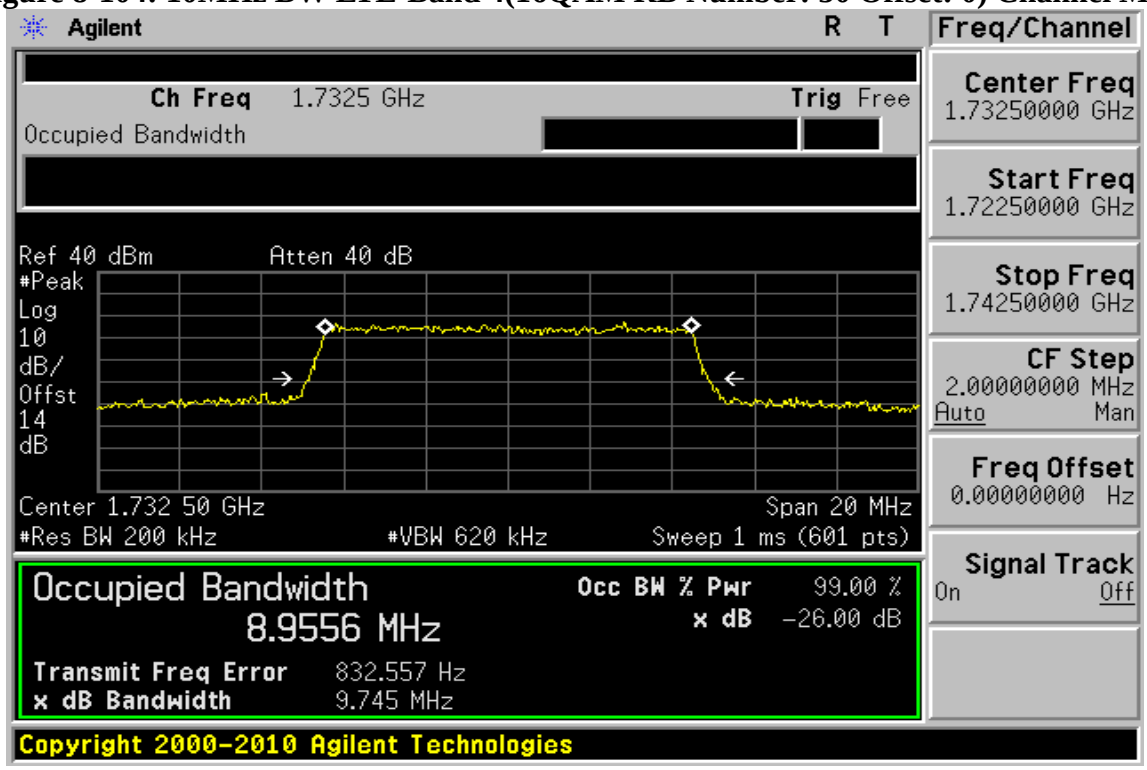

Figure 8-105: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel High

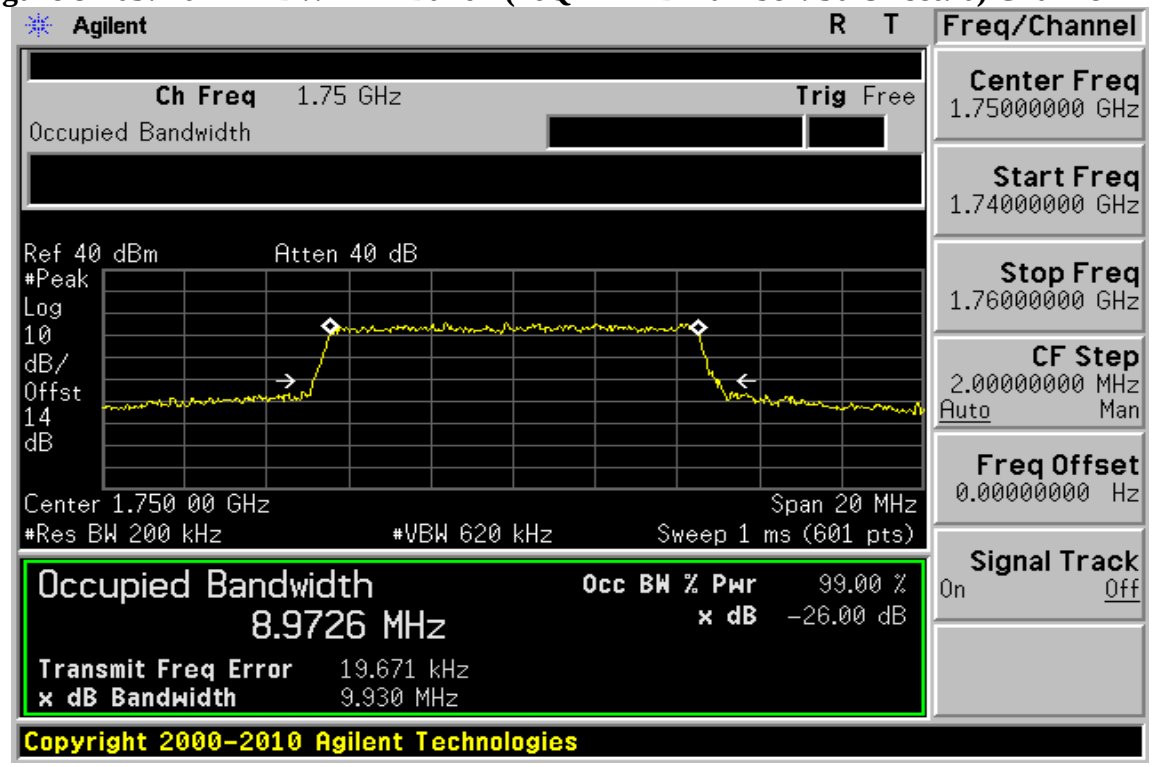

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Figure 8-106: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Low

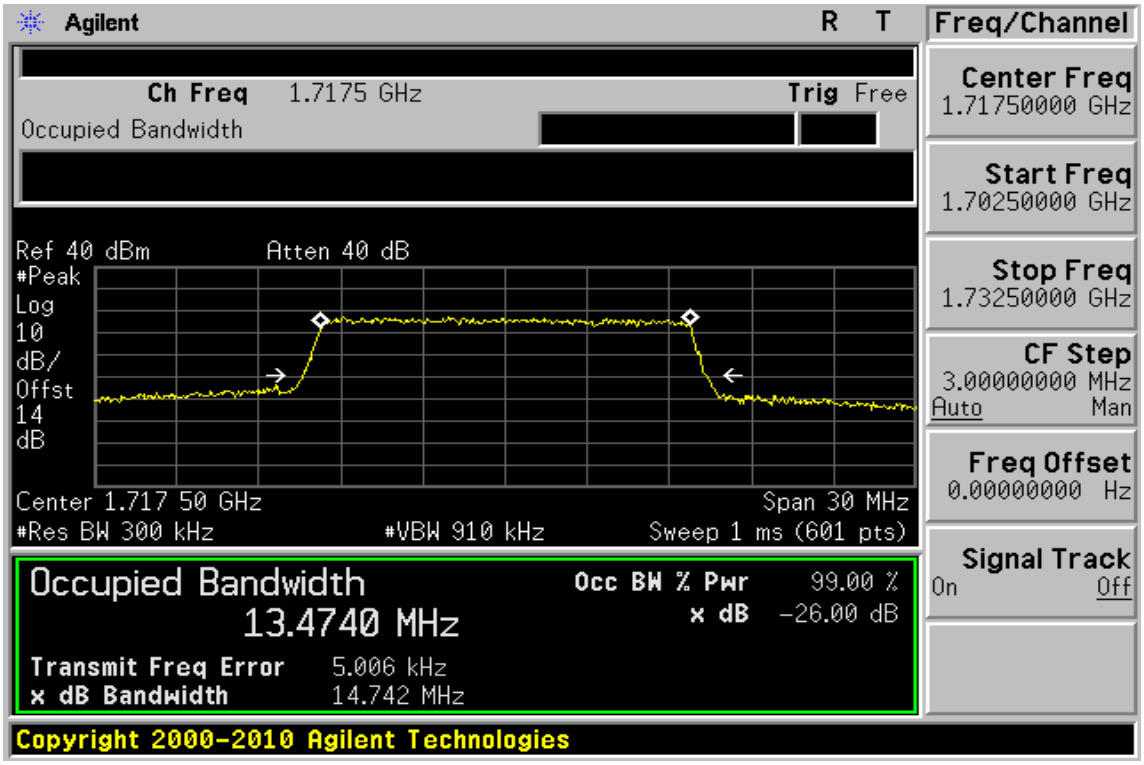

Figure 8-107: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Mid

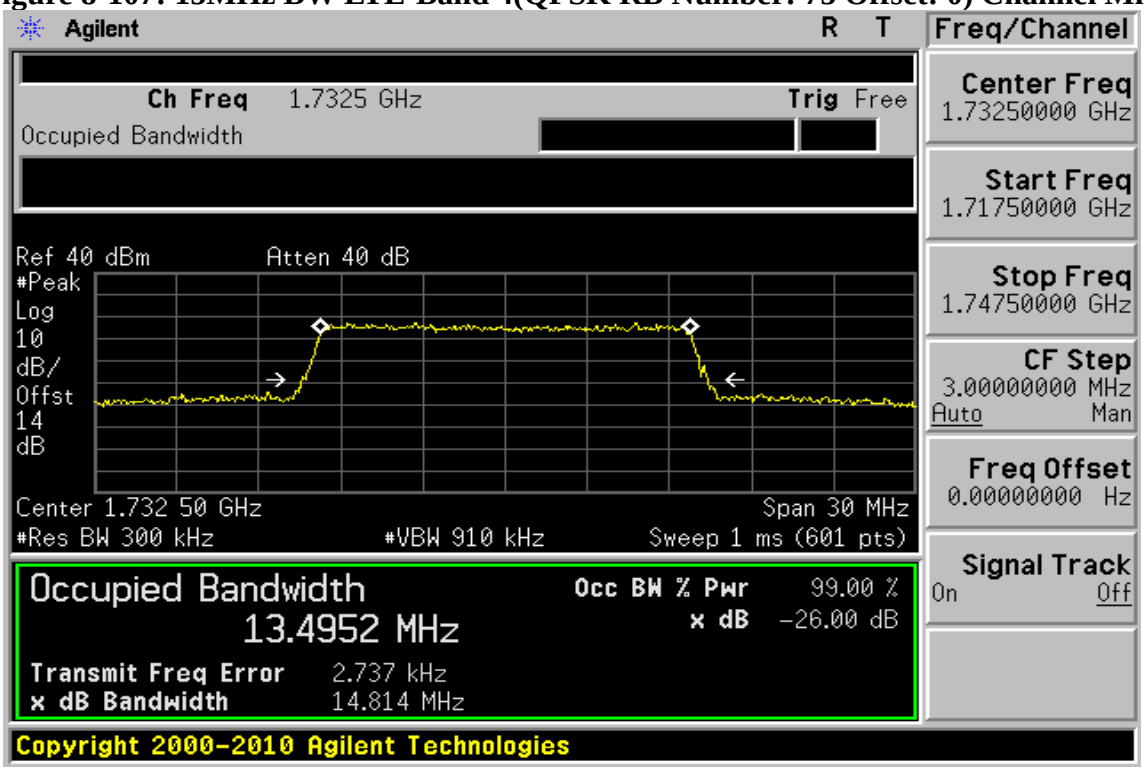

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Figure 8-108: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel High

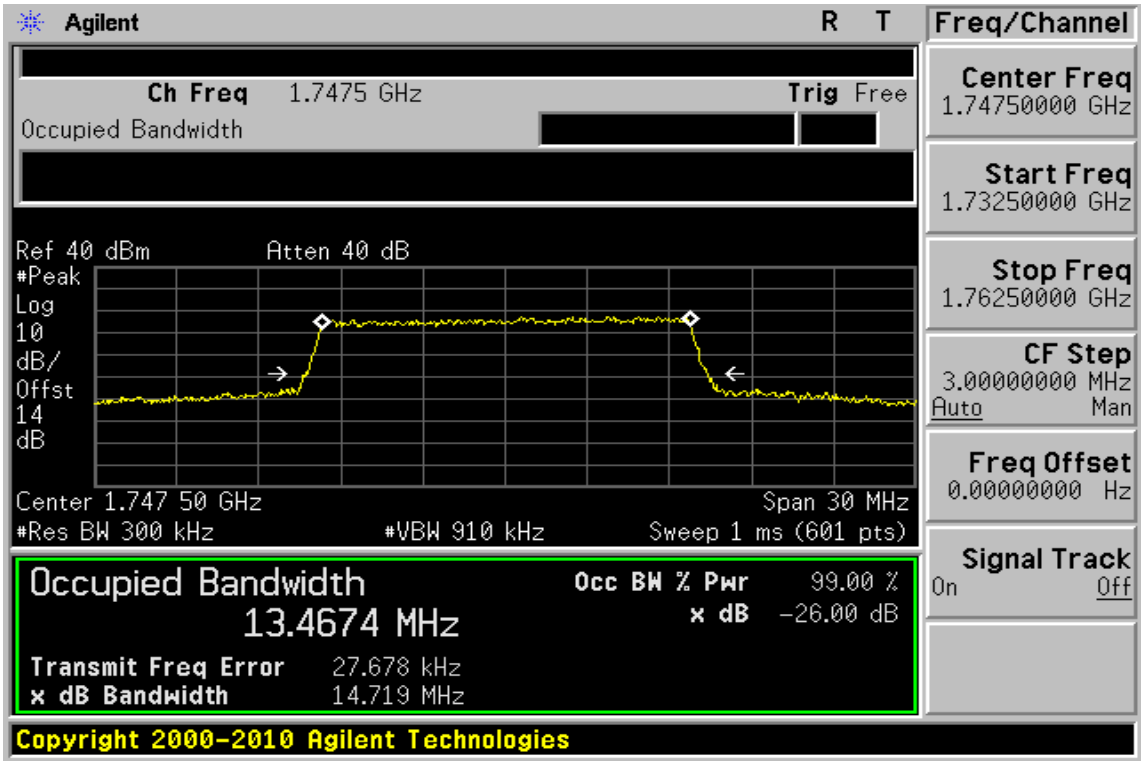

Figure 8-109: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Low

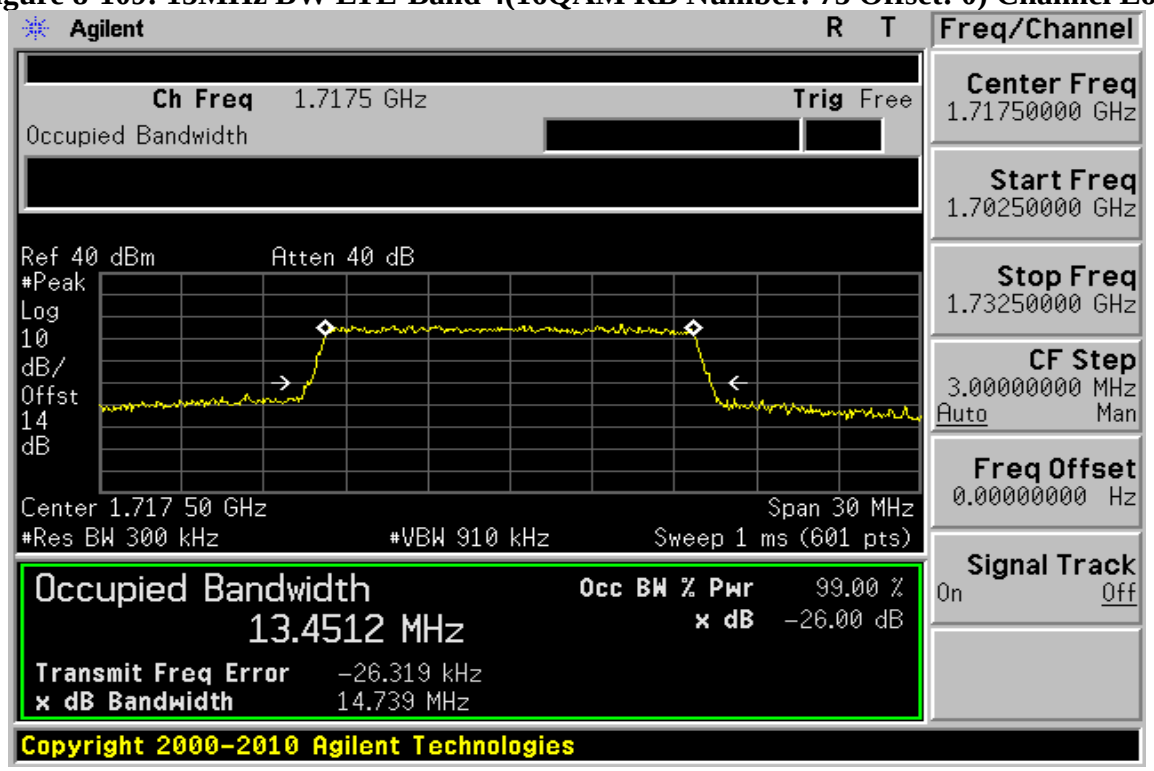

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Figure 8-110: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Mid

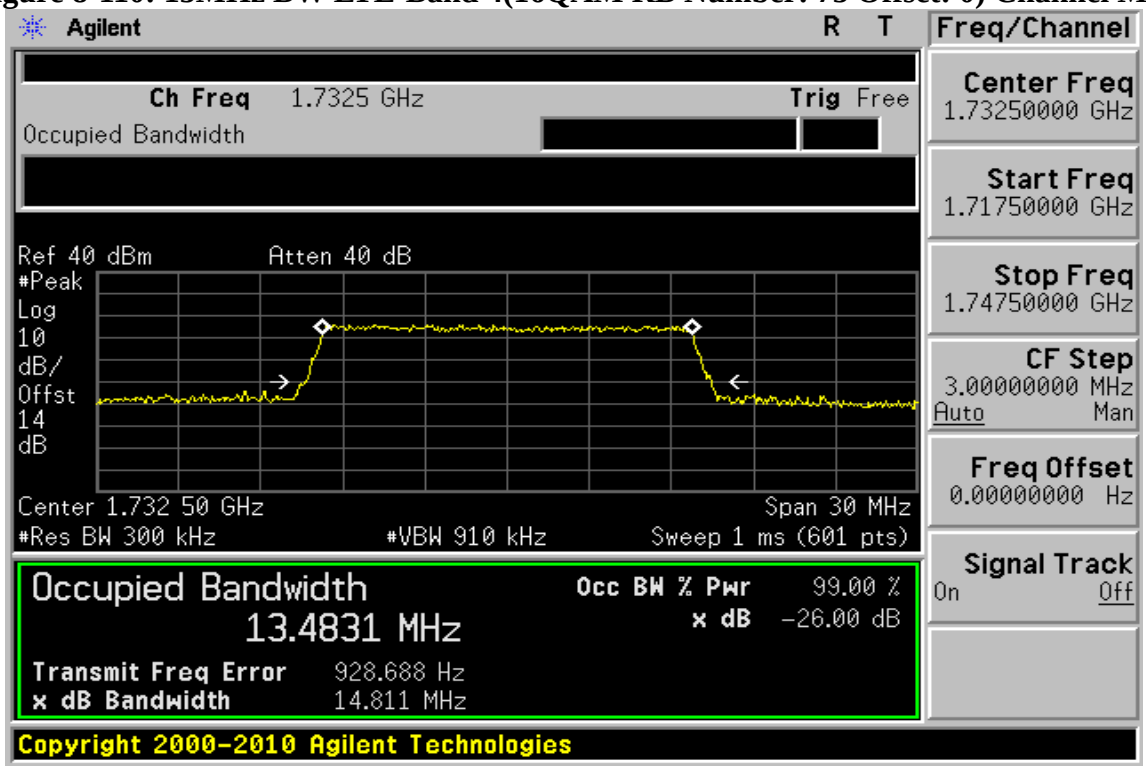

Figure 8-111: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel High

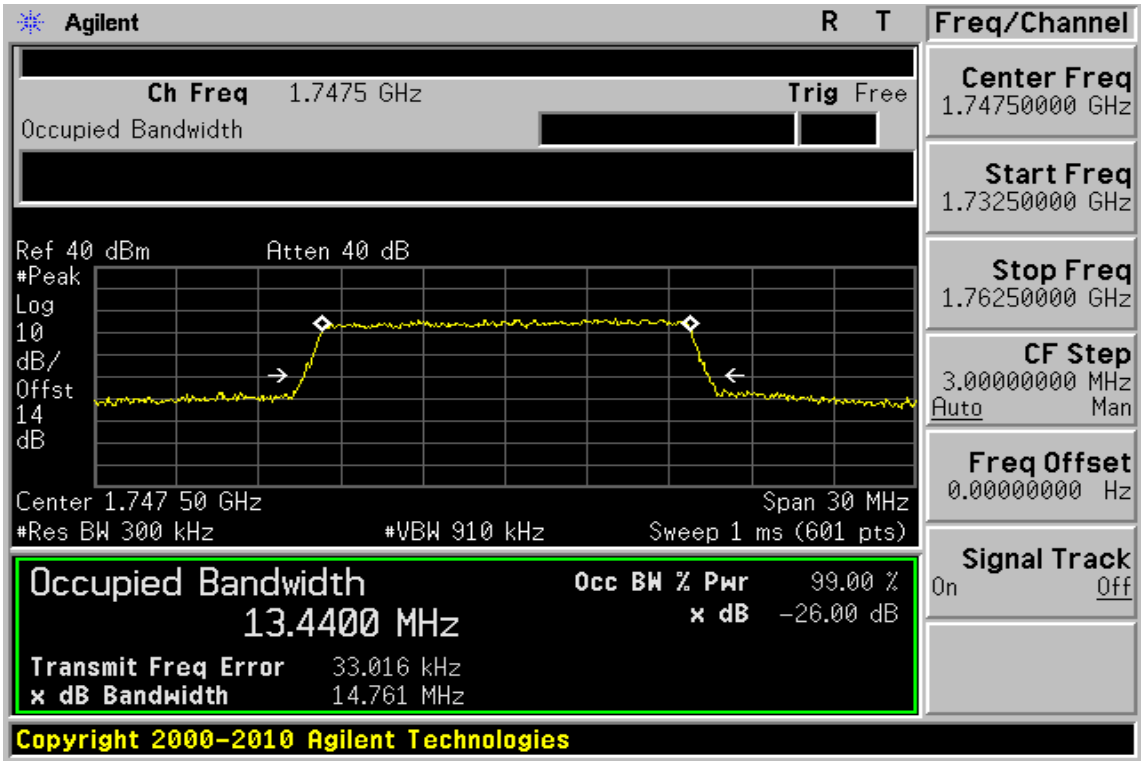

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Figure 8-112: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Low

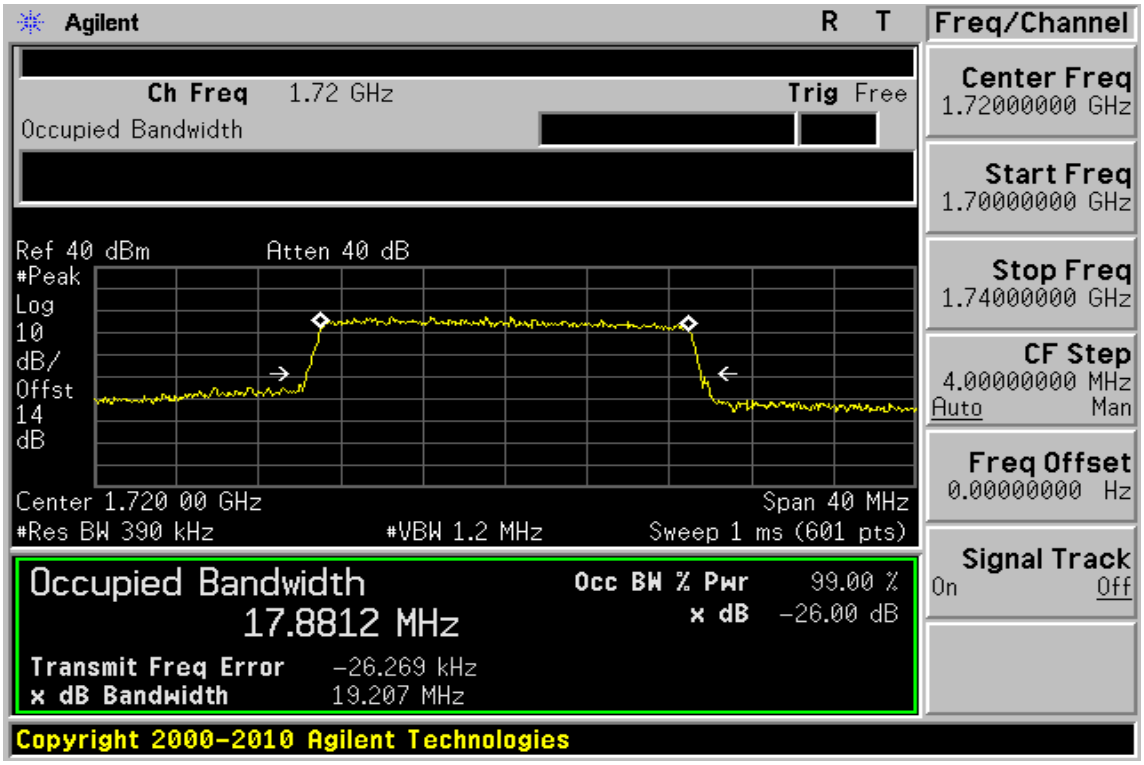

Figure 8-113: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Mid

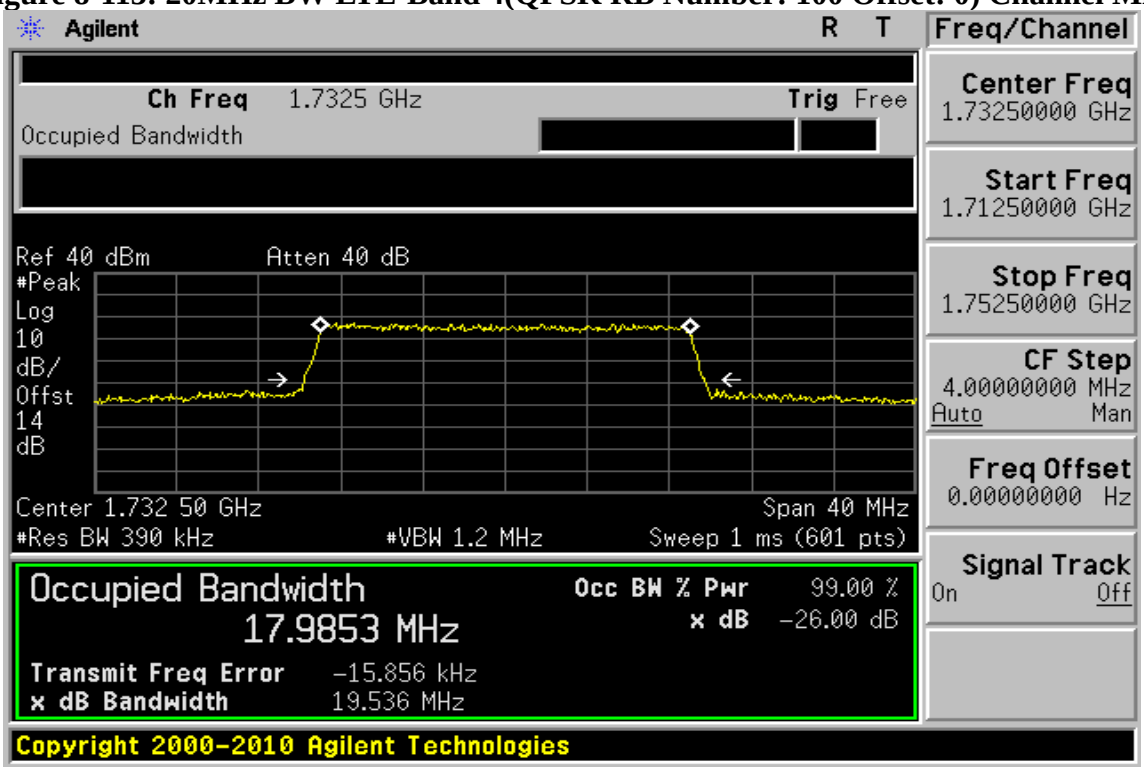

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Figure 8-114: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel High

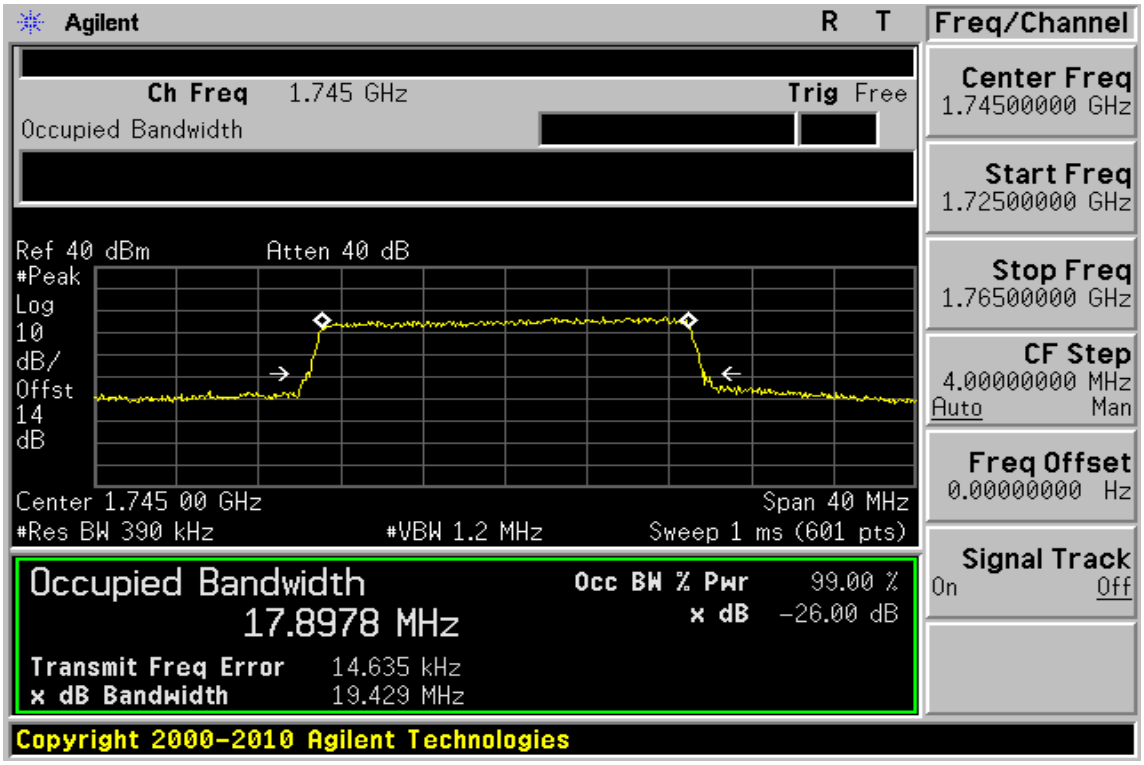

Figure 8-115: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Low

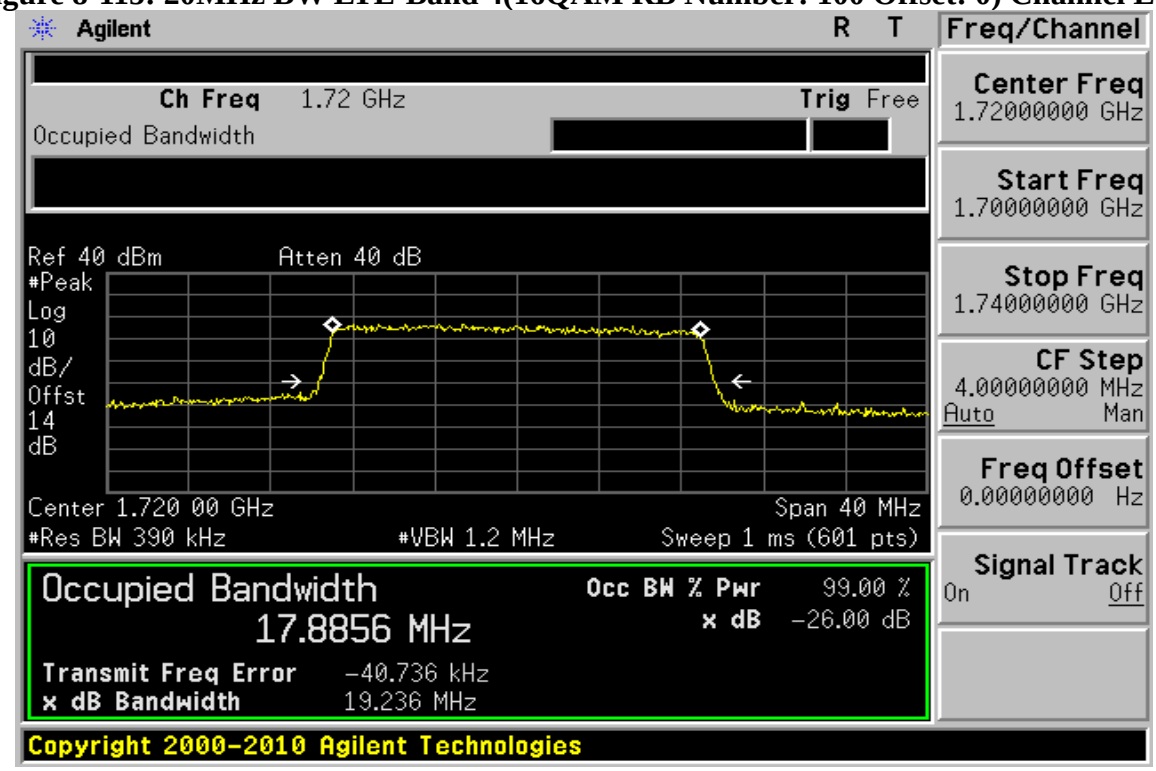

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Figure 8-116: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Mid

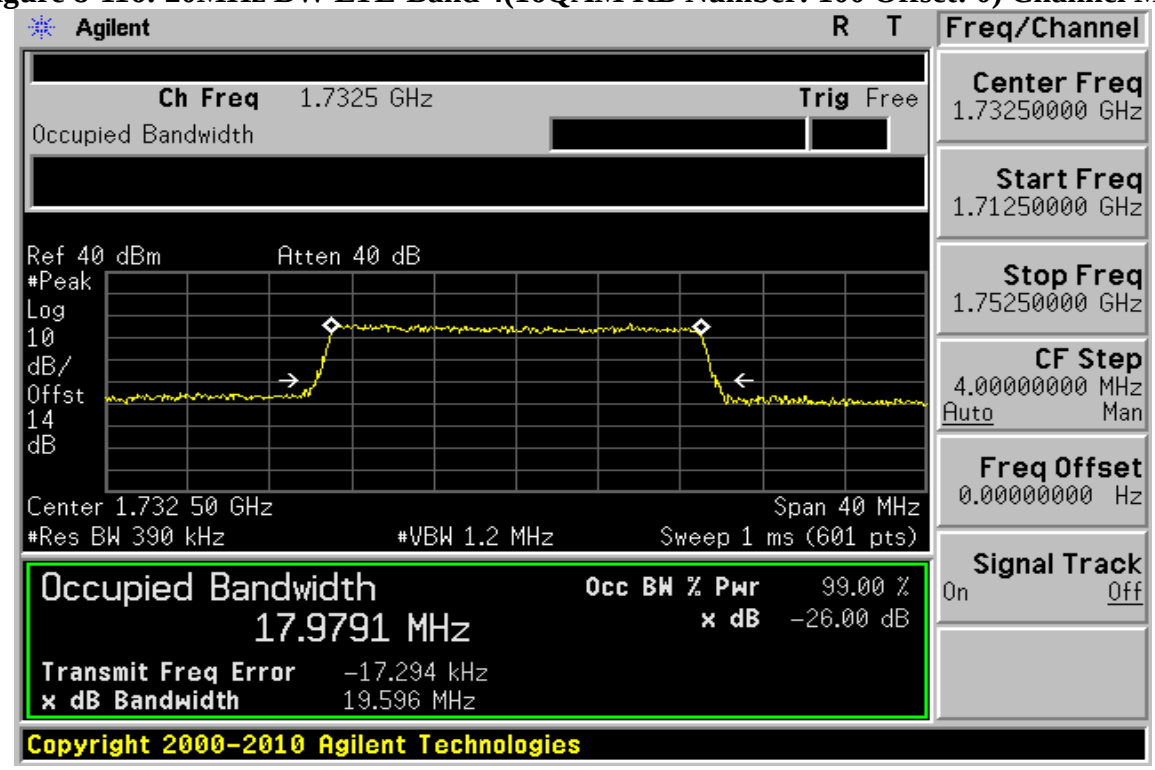

Figure 8-117: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel High

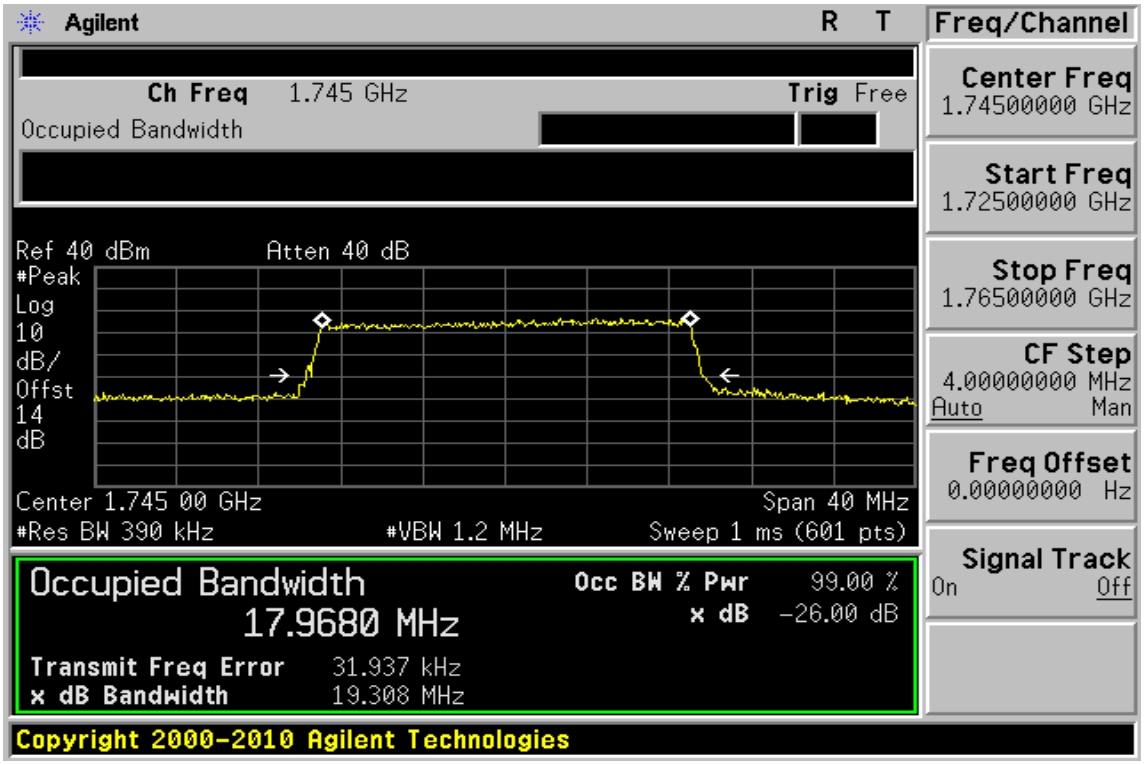

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Figure 8-118: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low

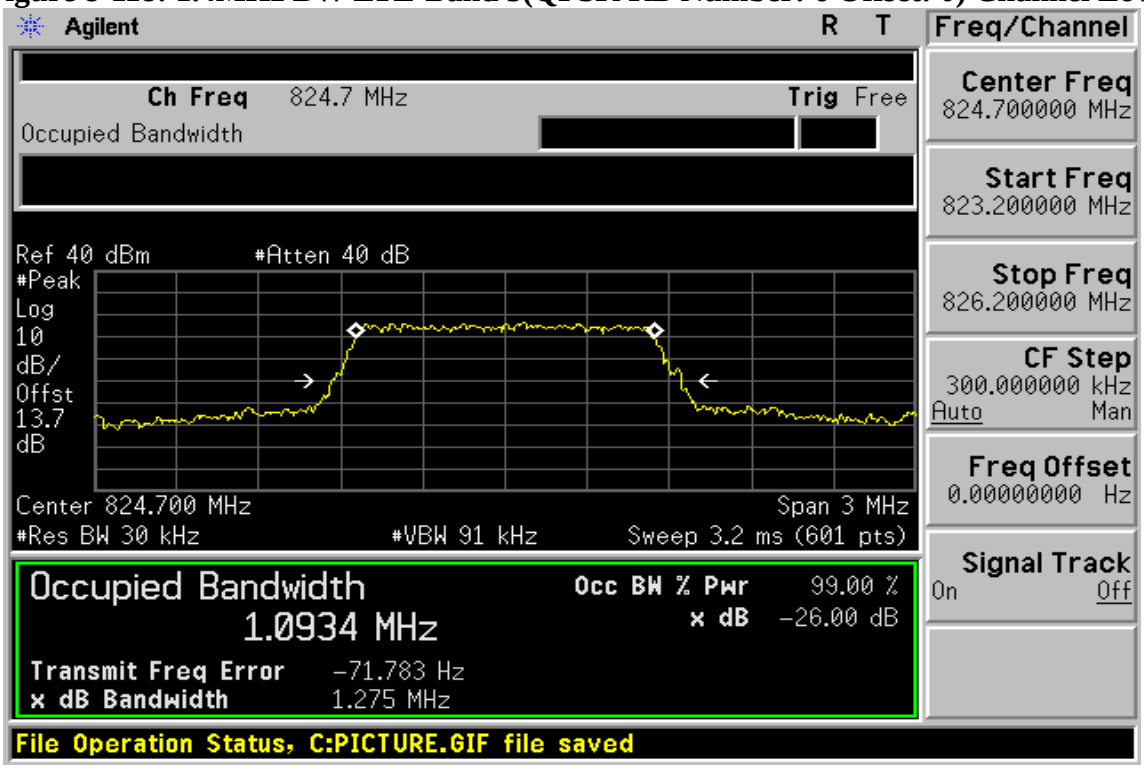

Figure 8-119: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Mid

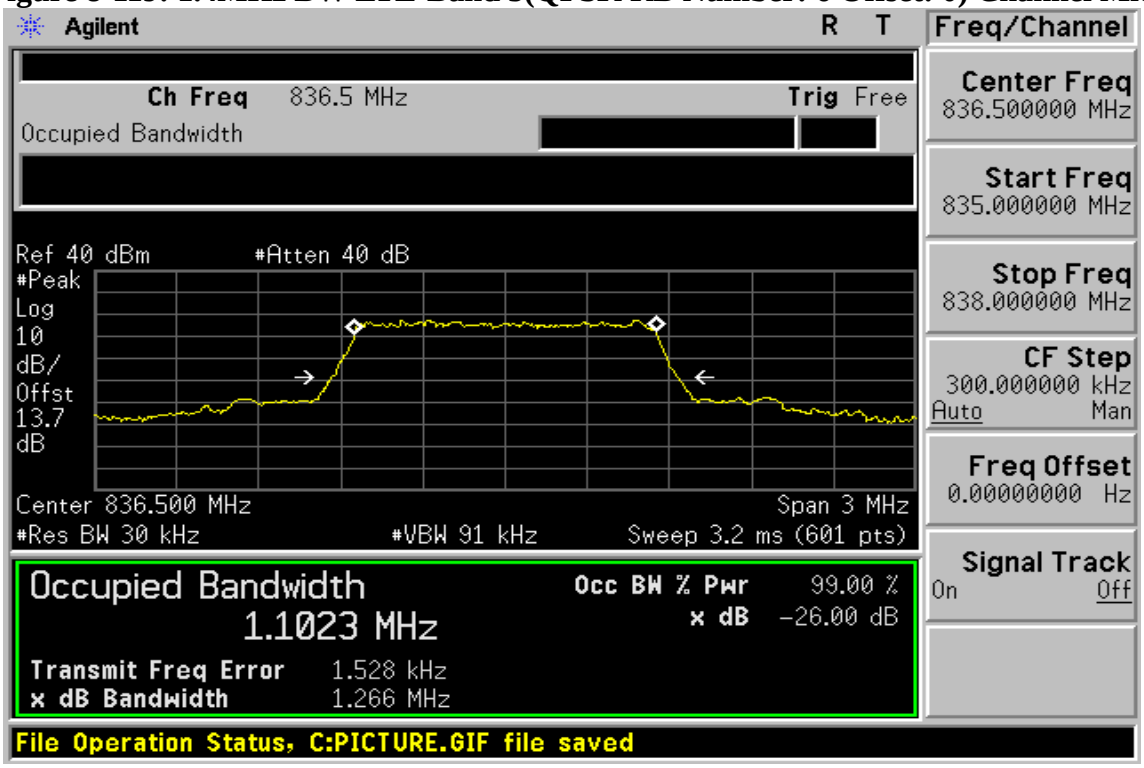

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Figure 8-120: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel High

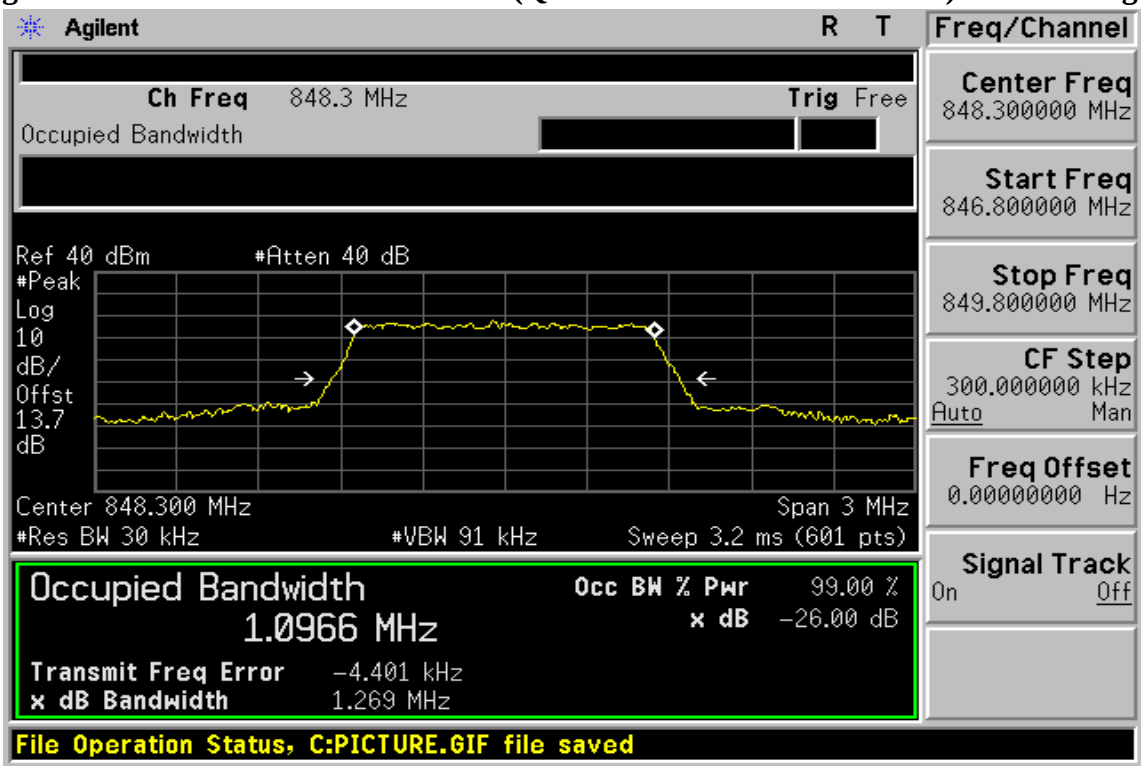

Figure 8-121: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Low

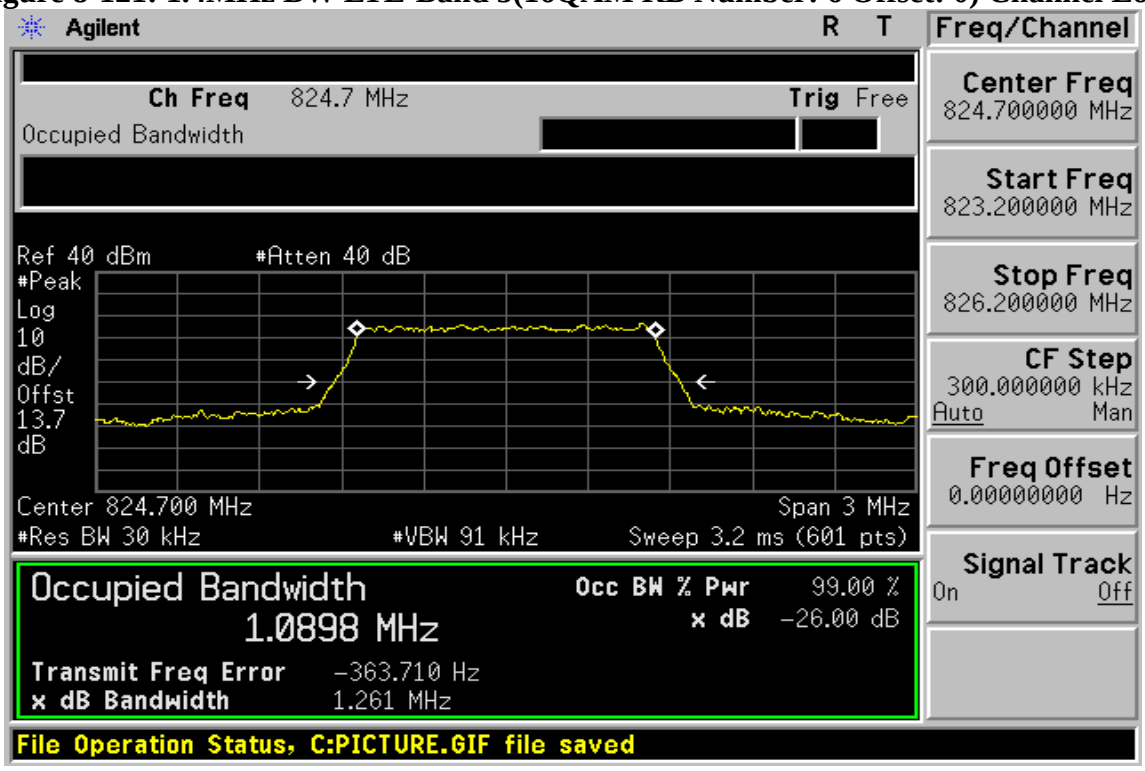

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Figure 8-122: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Mid

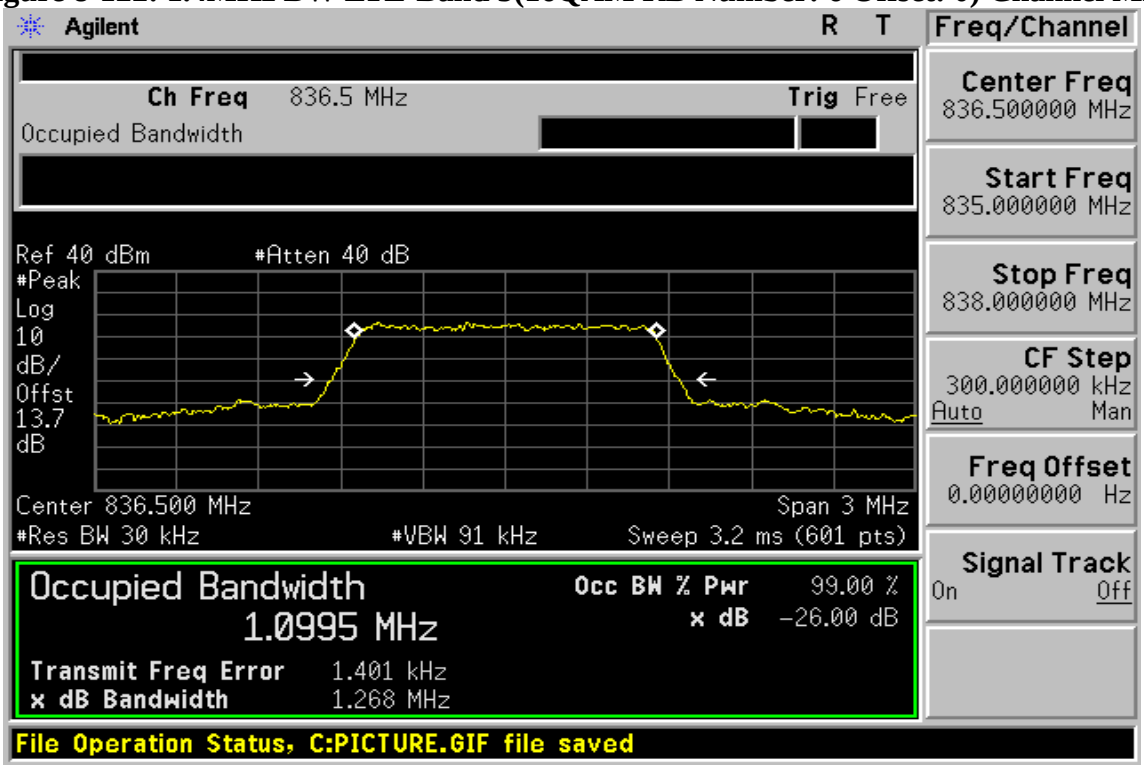

Figure 8-123: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel High

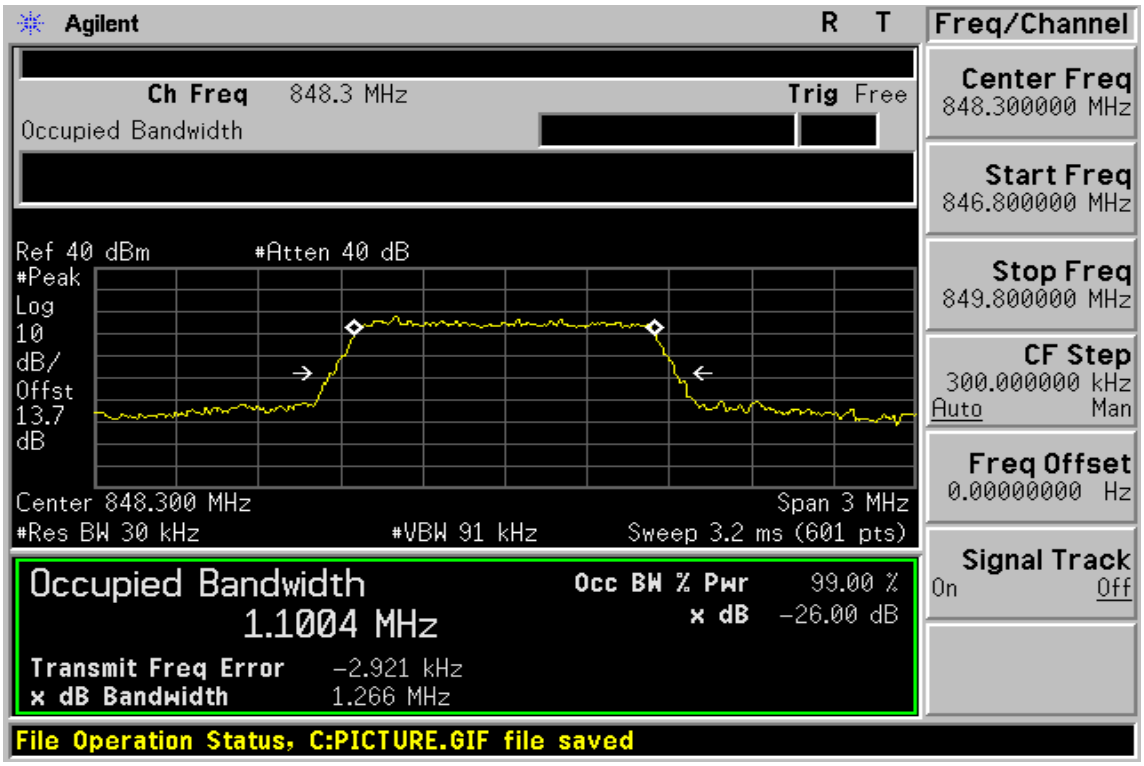

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Figure 8-124: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Low

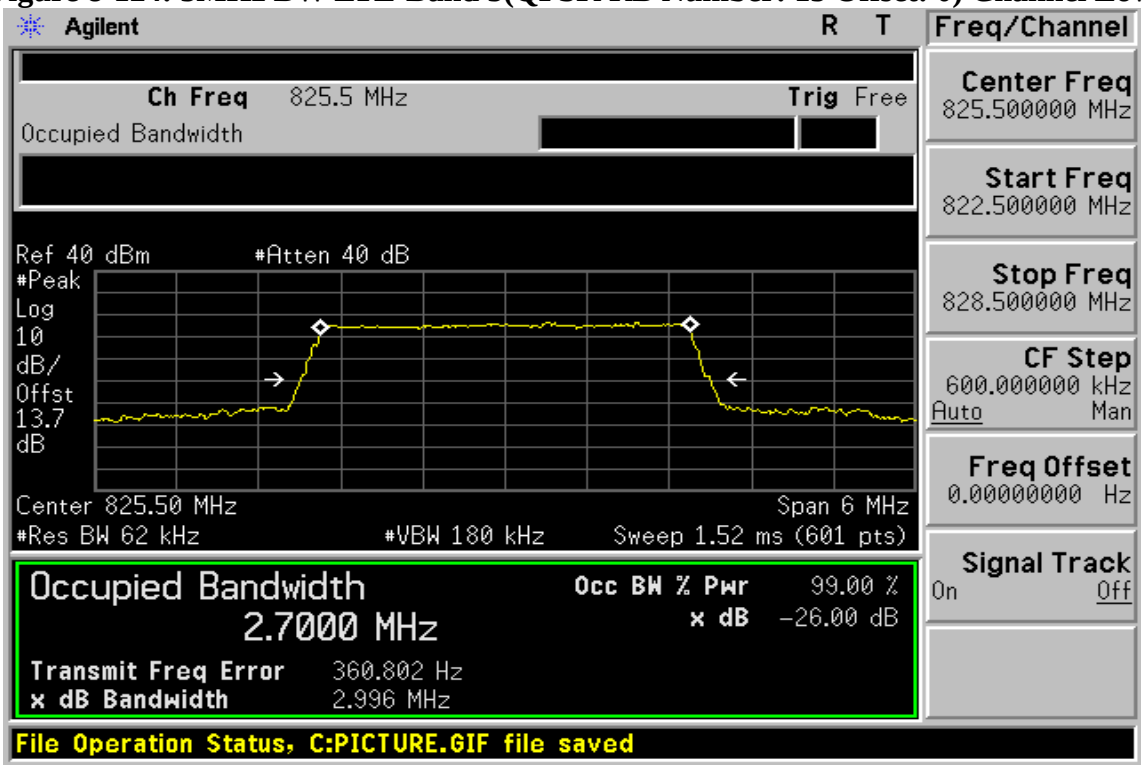

Figure 8-125: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Mid

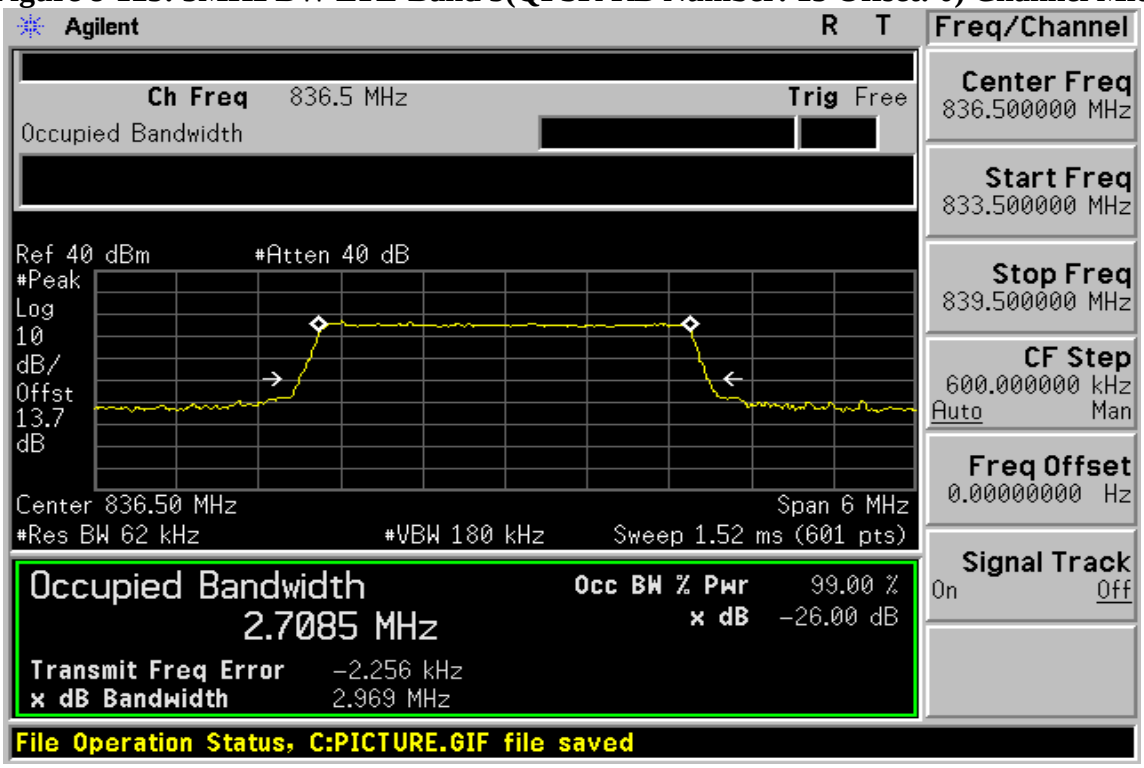

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Figure 8-126: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel High

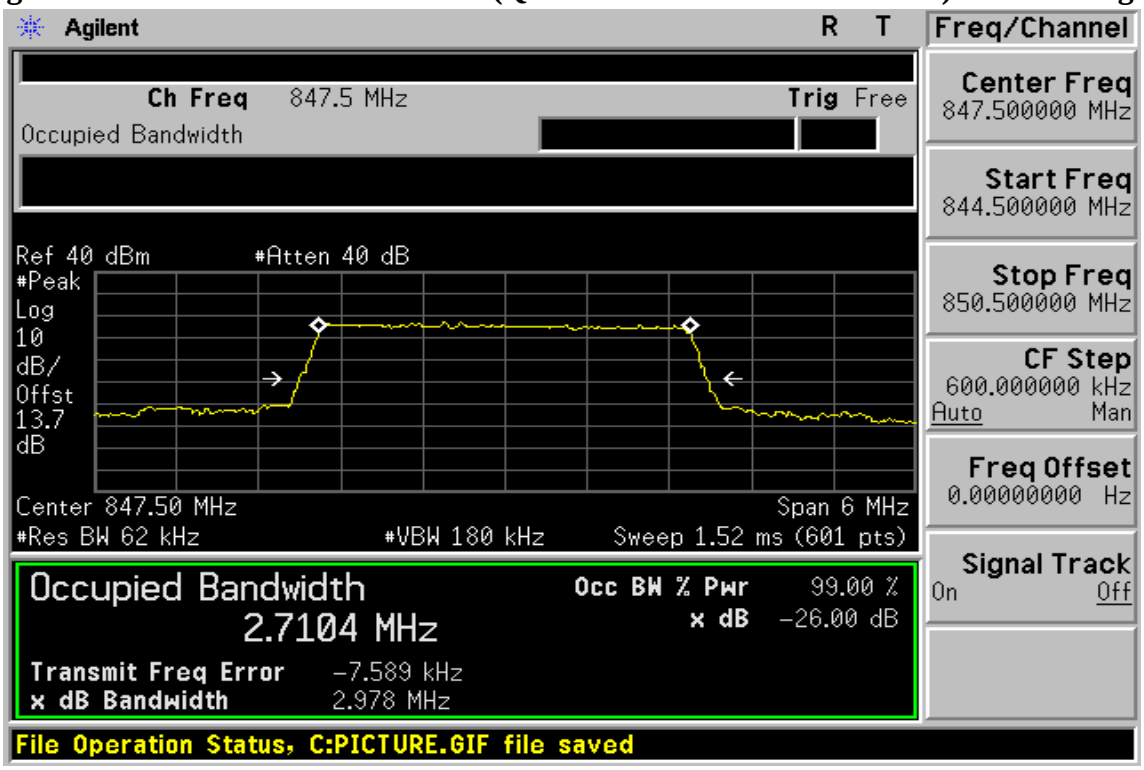

Figure 8-127: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Low

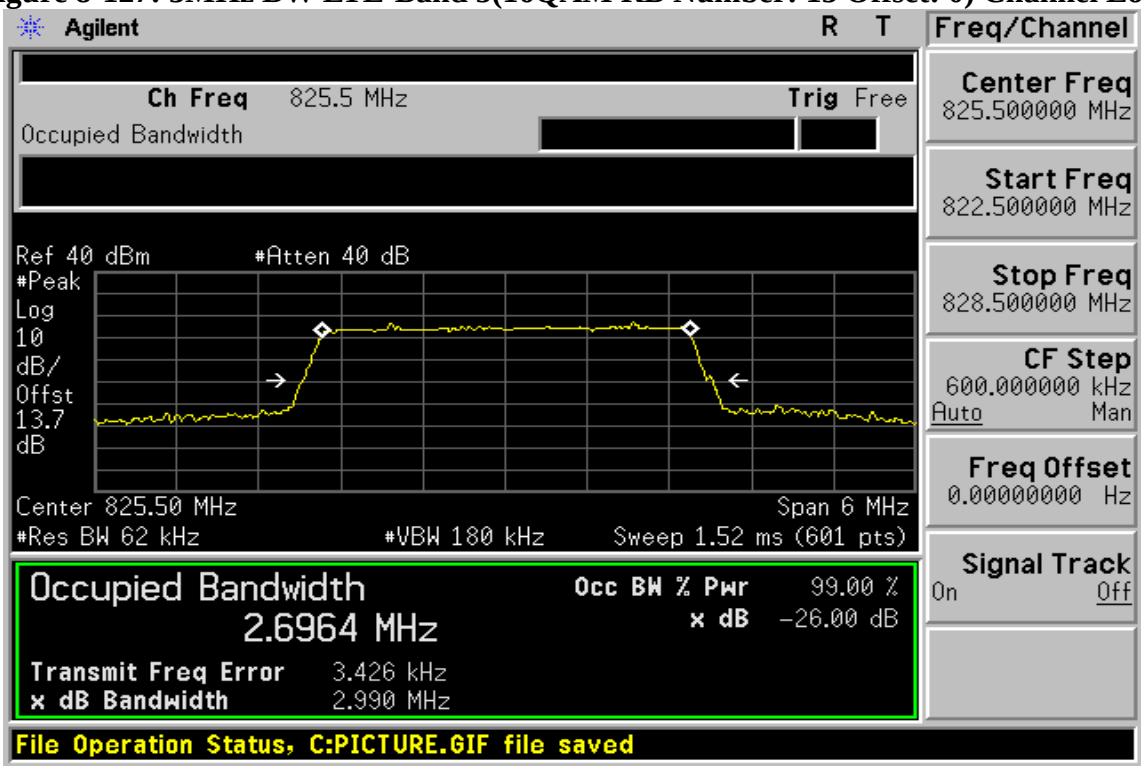

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Figure 8-128: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Mid

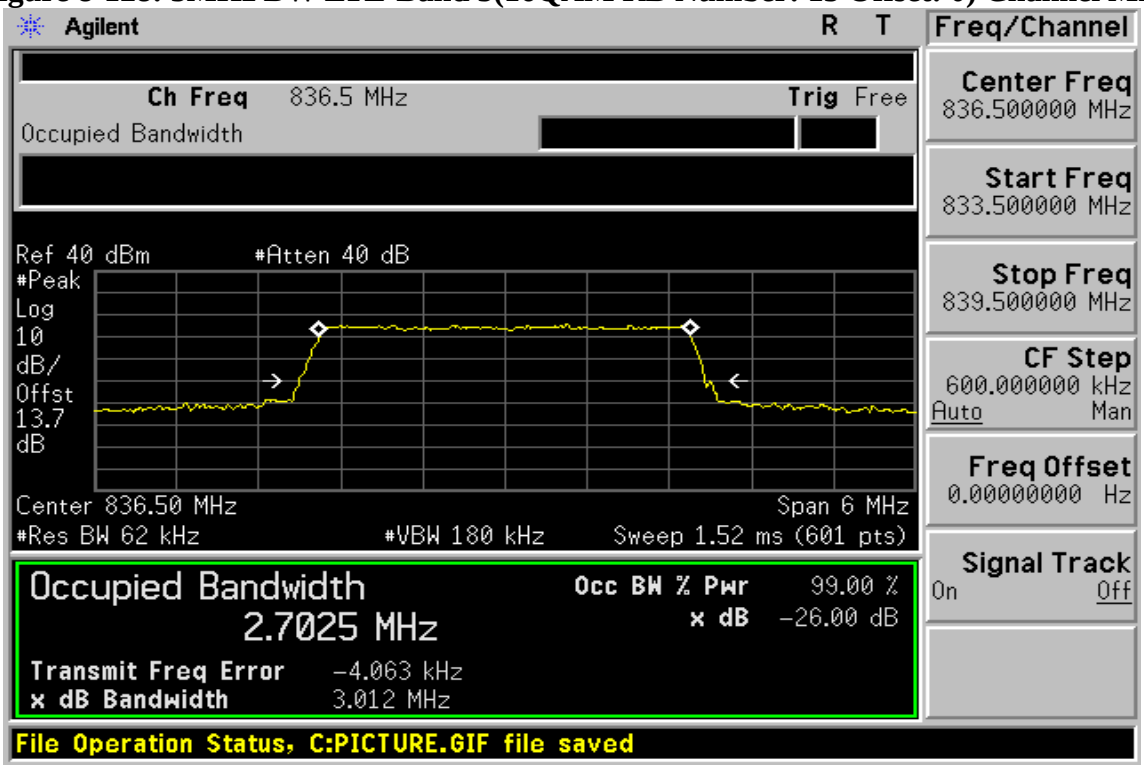

Figure 8-129: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel High

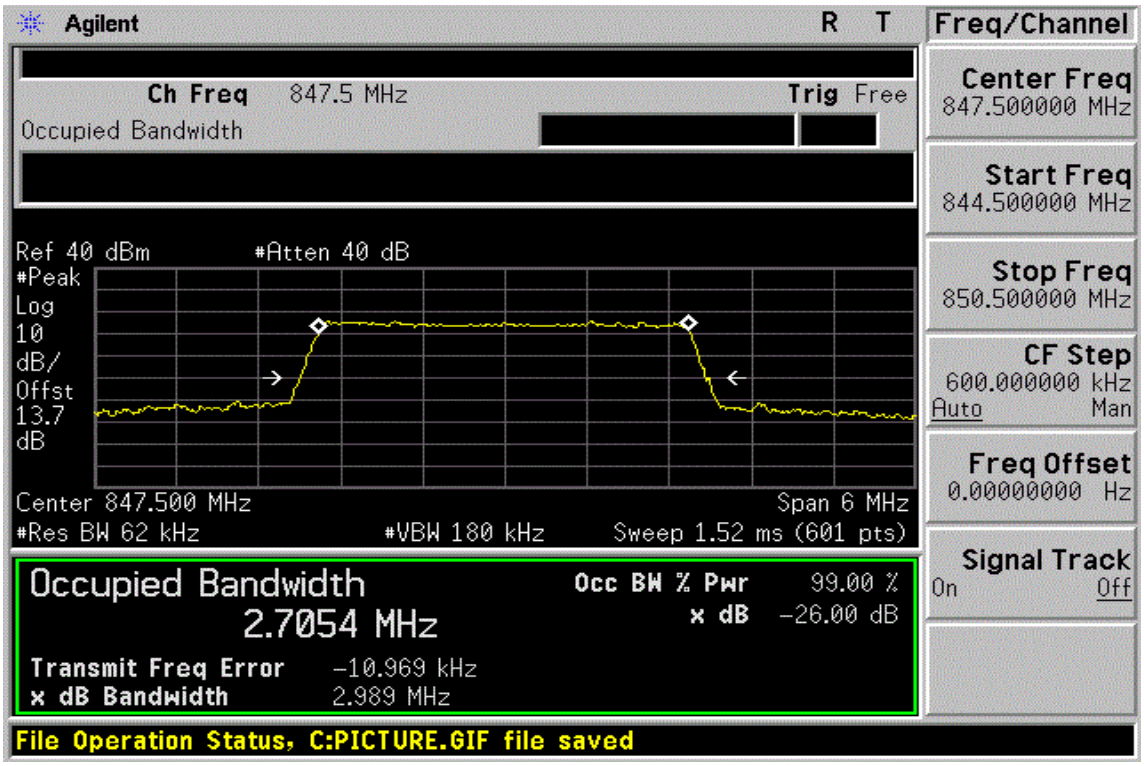

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Figure 8-130: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Low

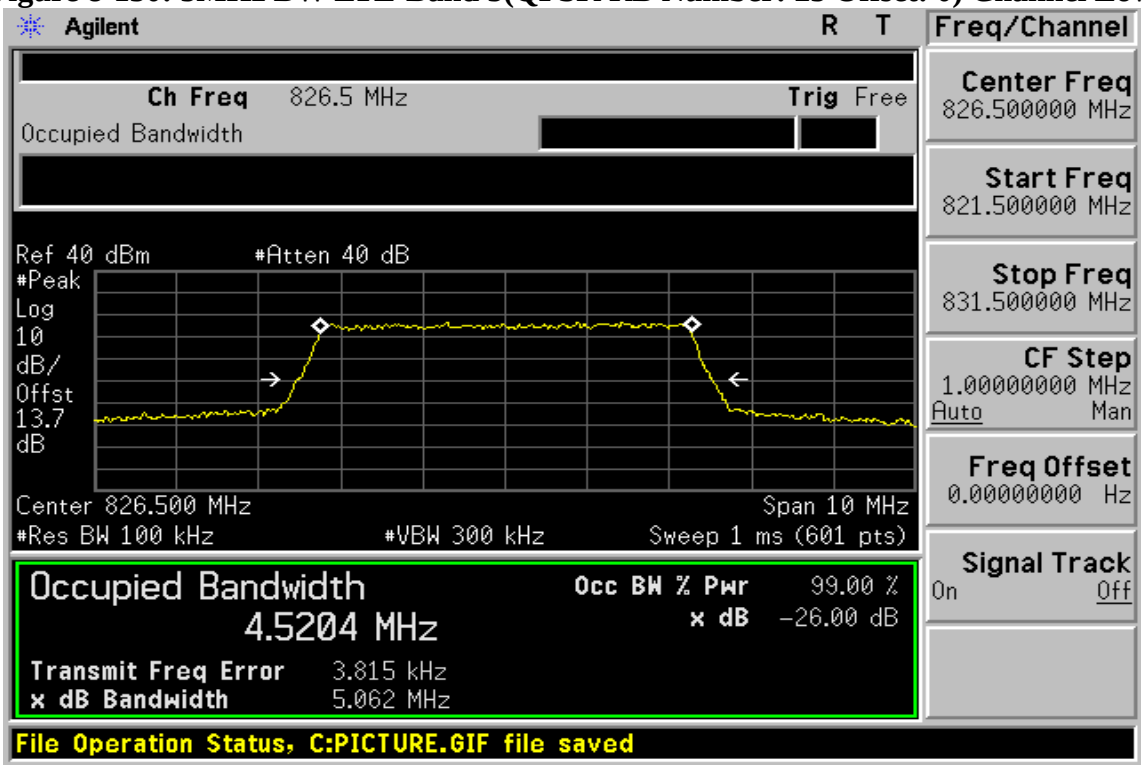

Figure 8-131: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Mid

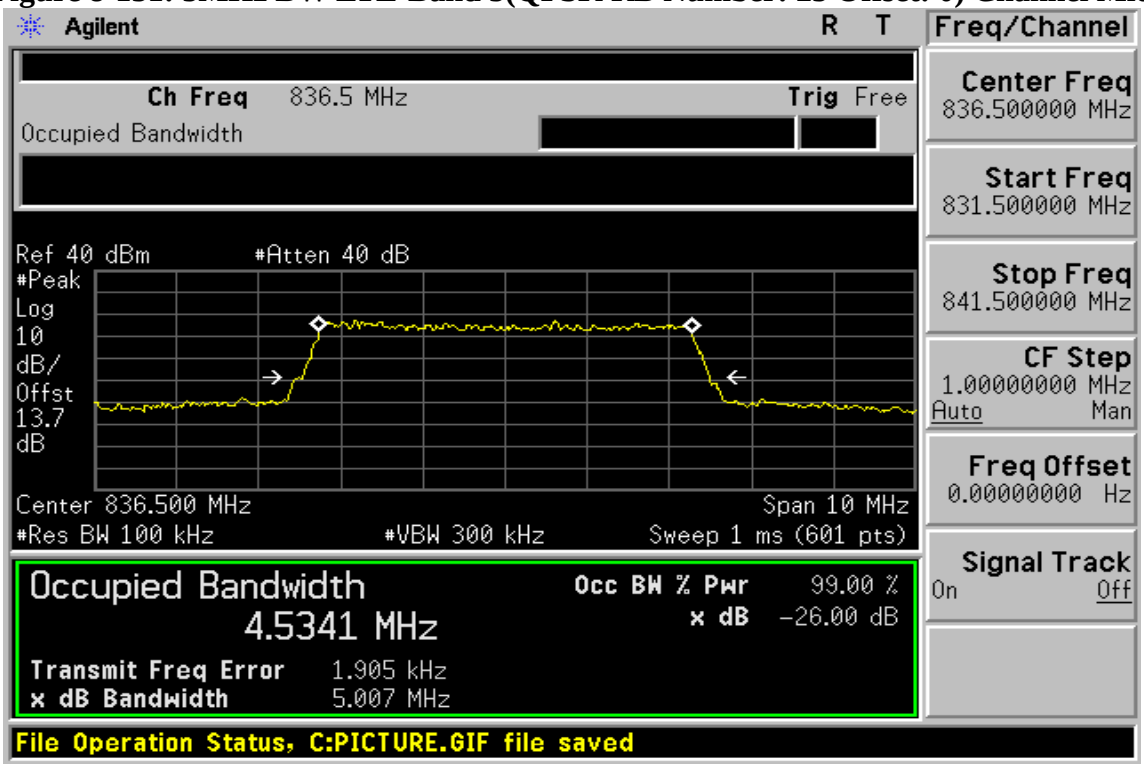

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Figure 8-132: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel High

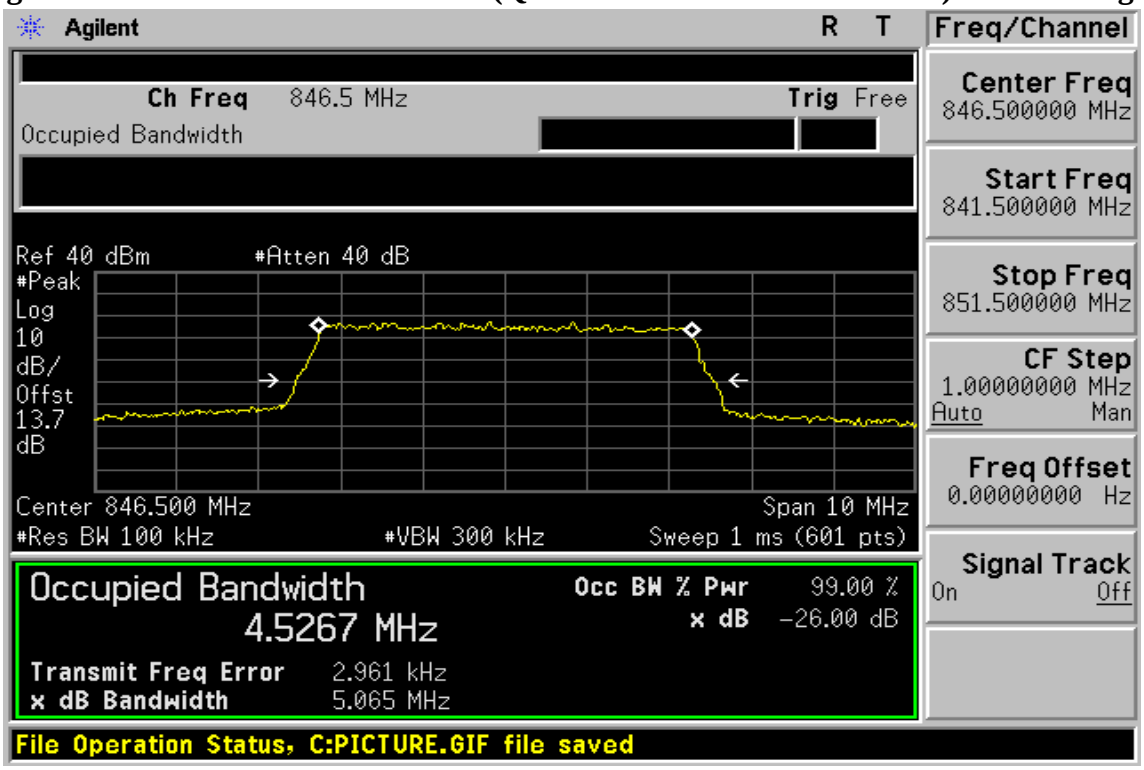

Figure 8-133: 5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Low

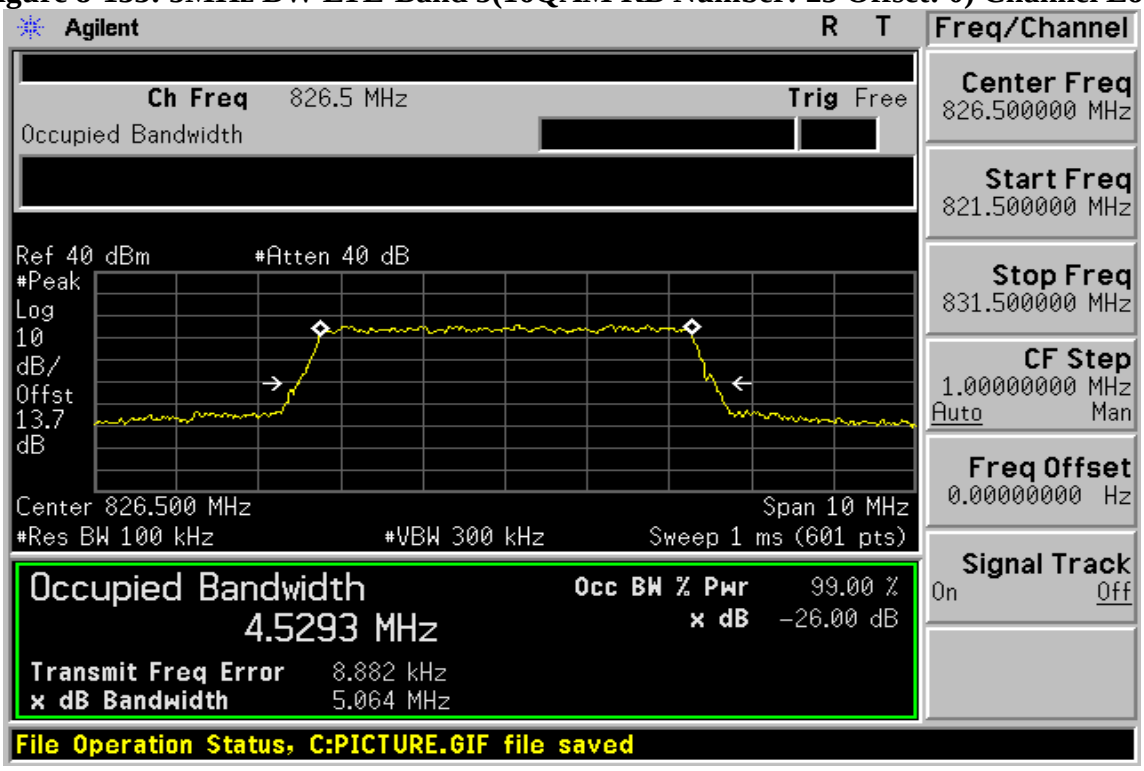

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Figure 8-134: 5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Mid

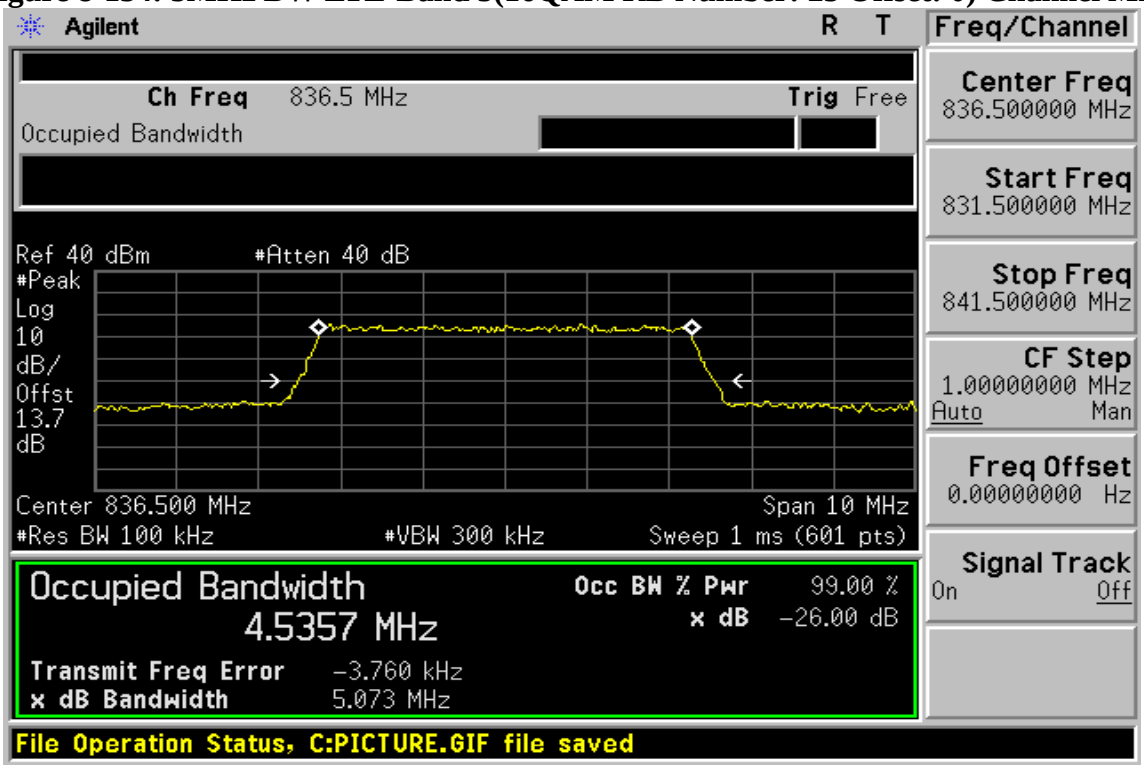

Figure 8-135: 5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel High

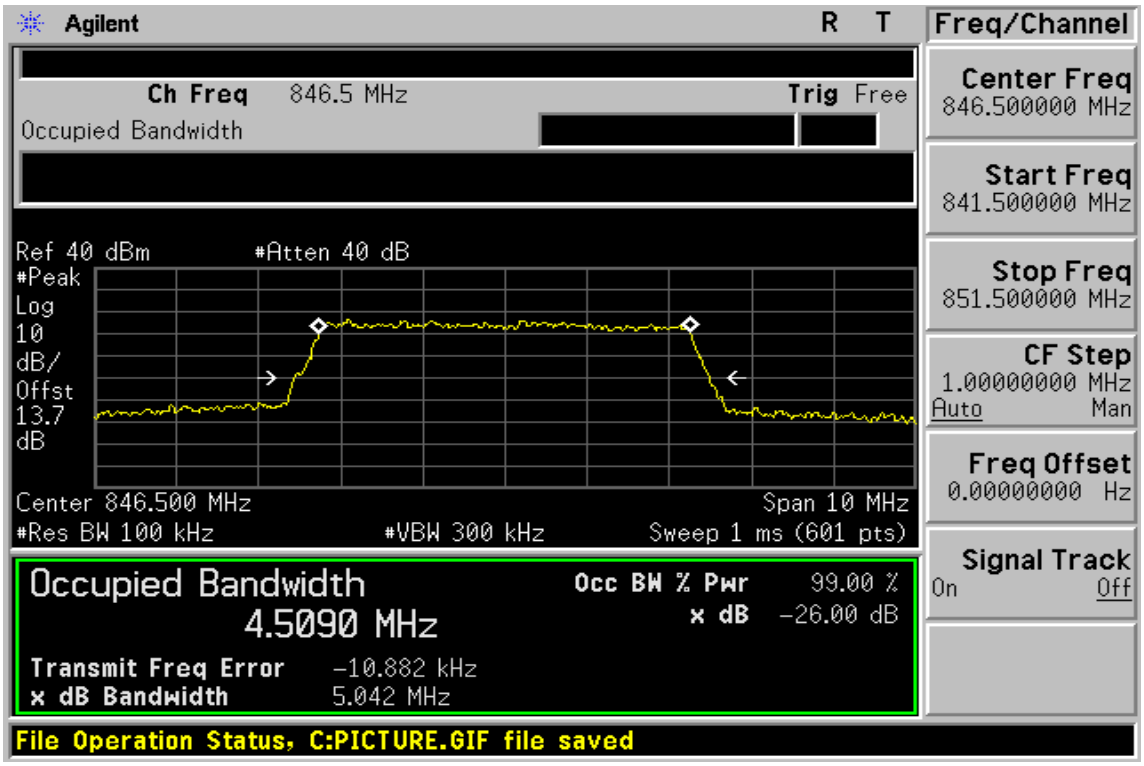

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Figure 8-136: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Low

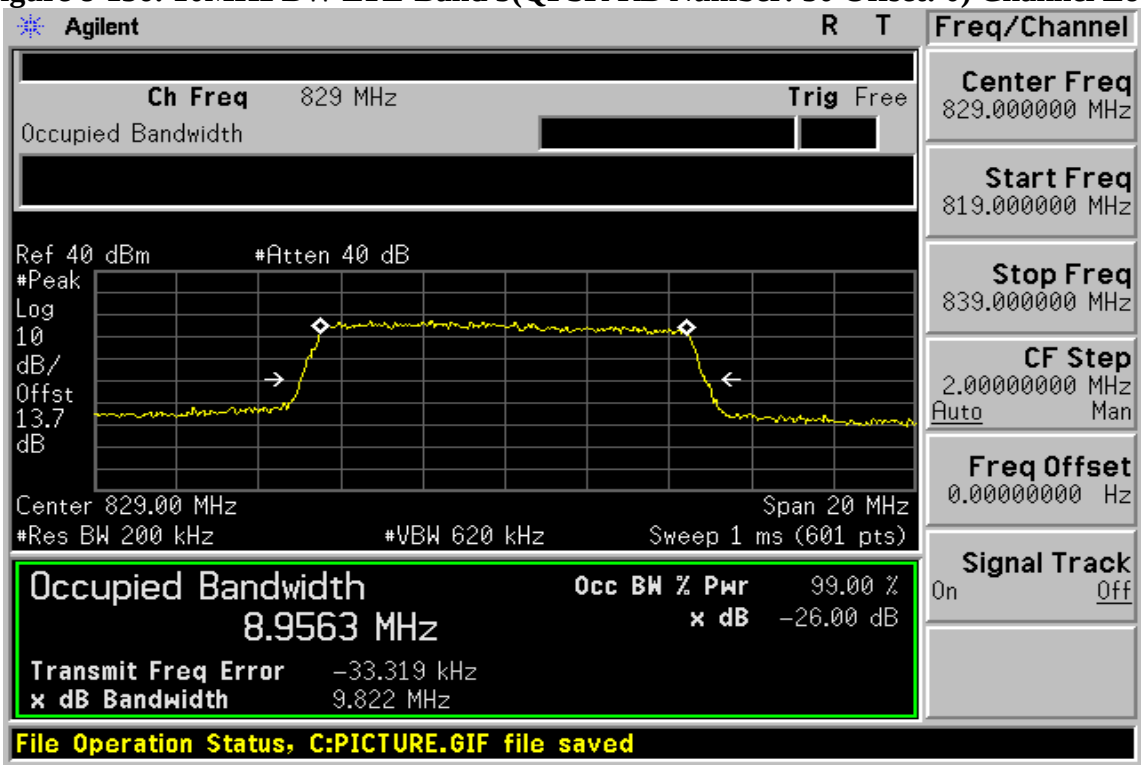

Figure 8-137: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Mid

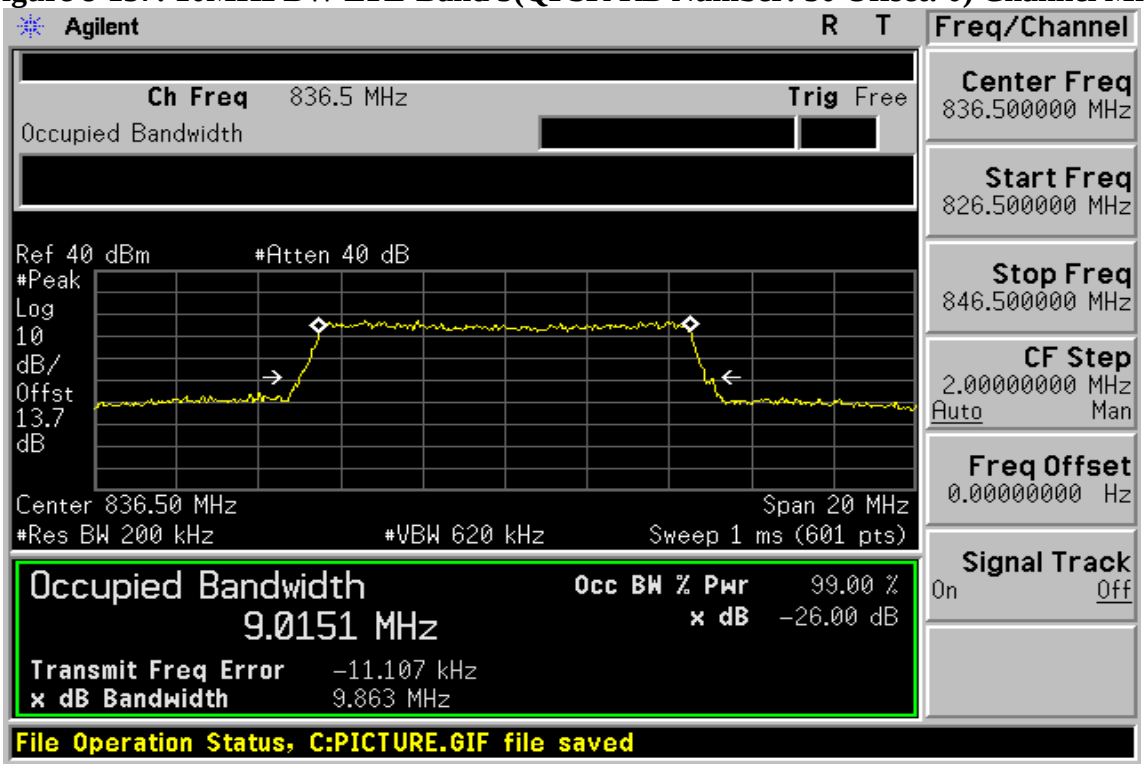

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Figure 8-138: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel High

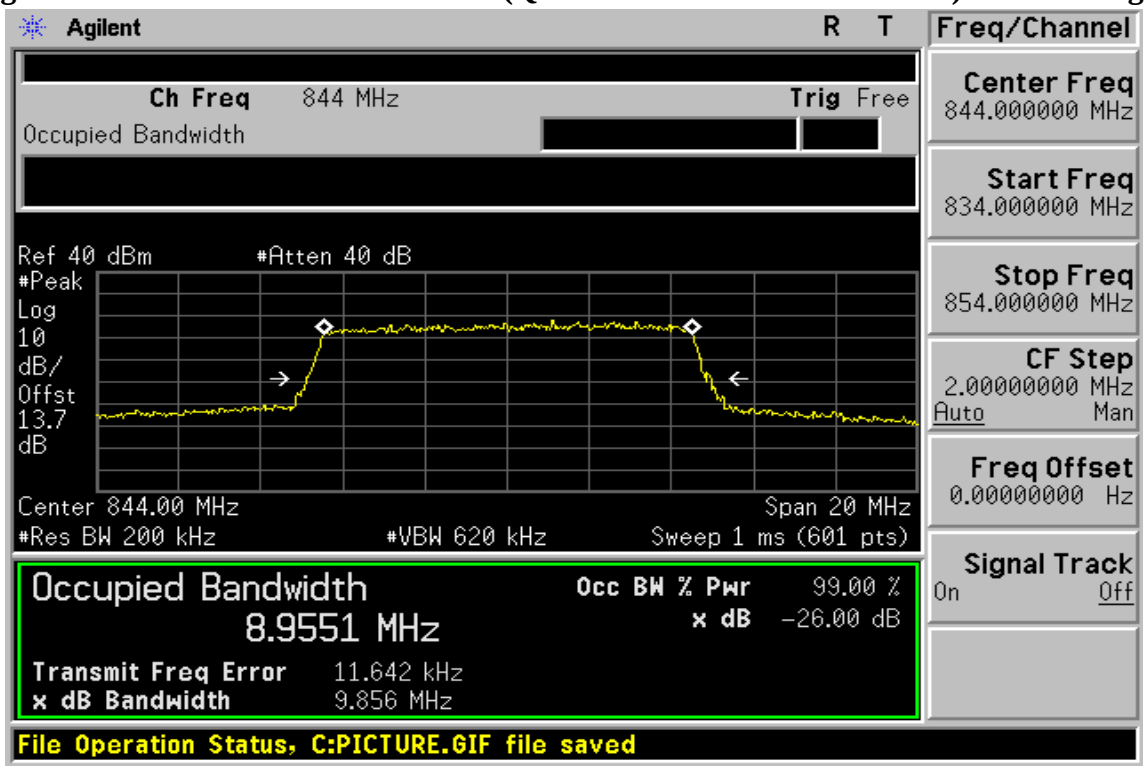

Figure 8-139: 10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Low

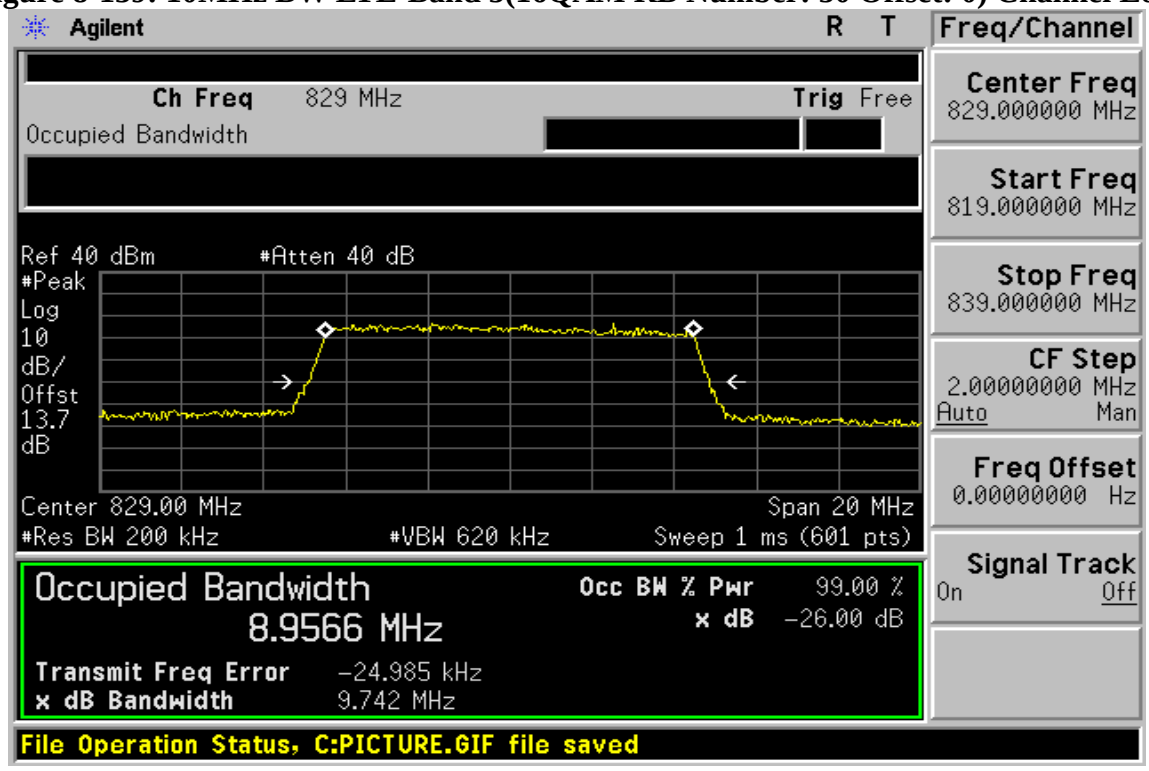

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Figure 8-140: 10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Mid

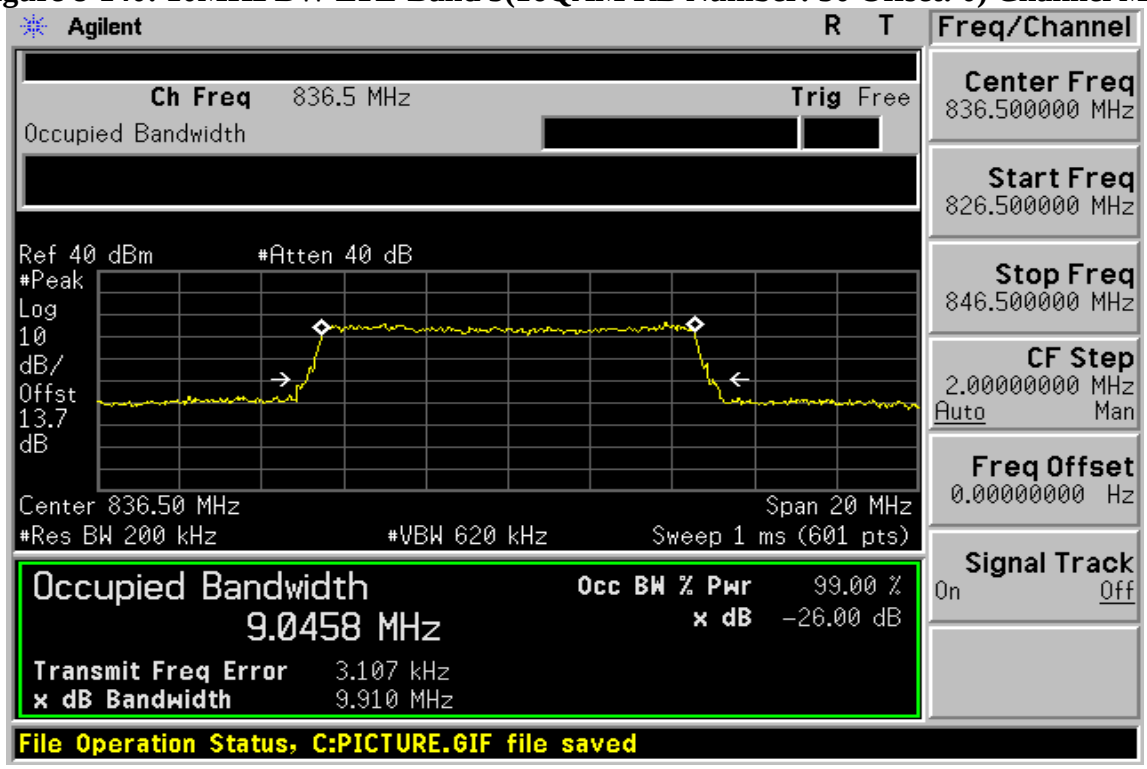

Figure 8-141: 10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel High

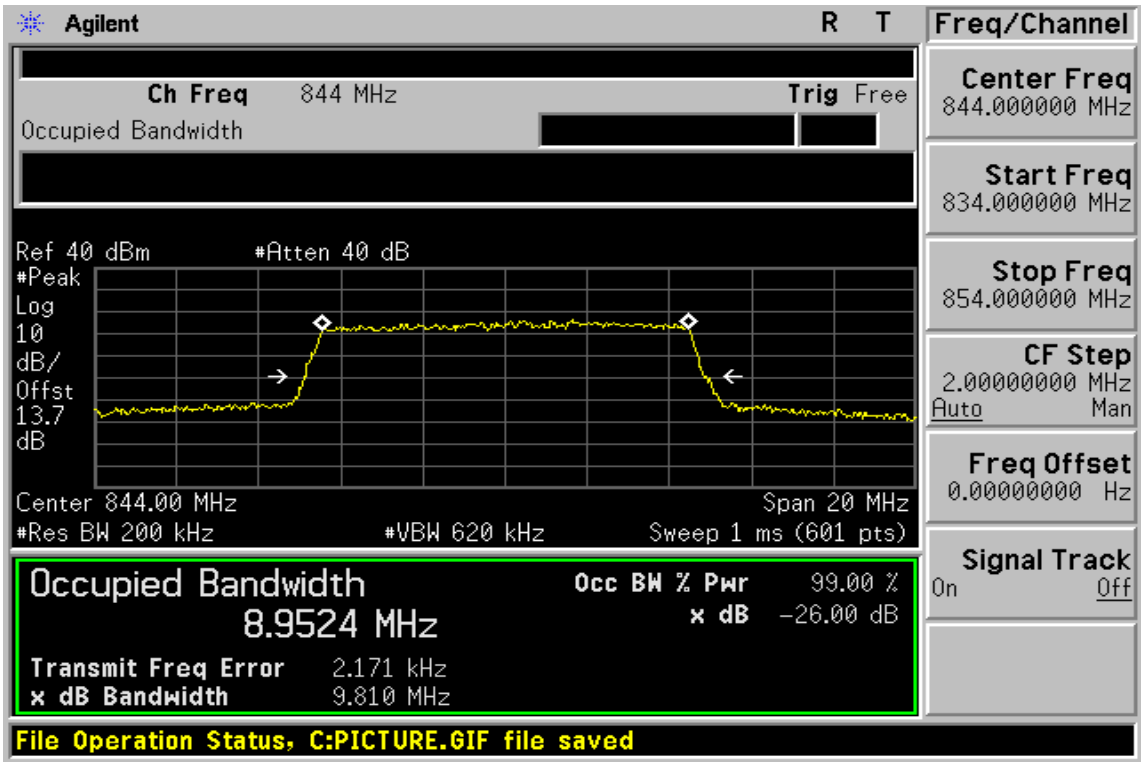

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Figure 8-142: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low

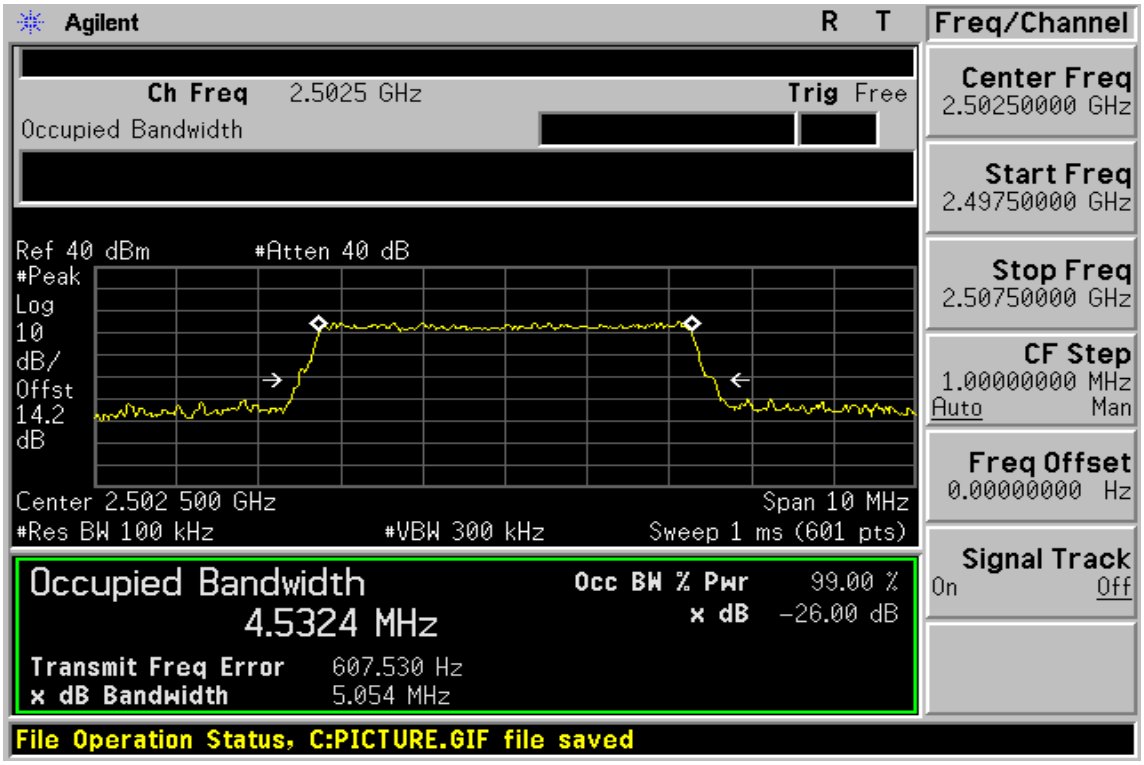

Figure 8-143: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Mid

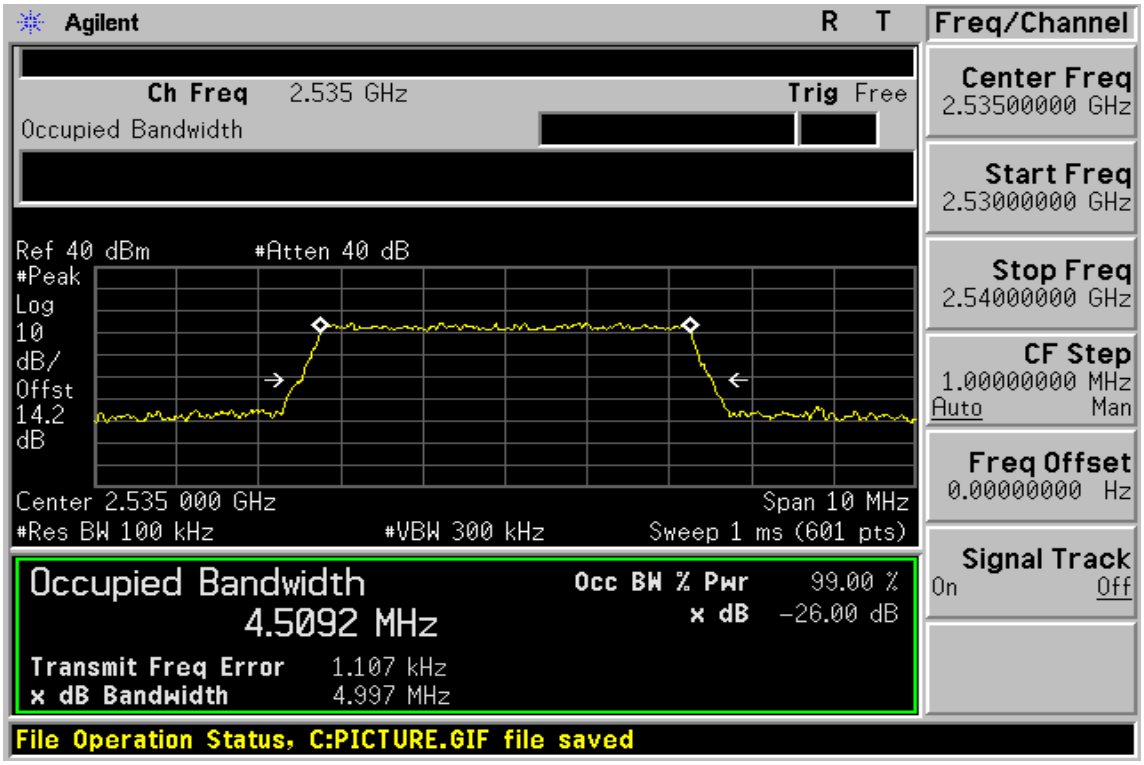

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Figure 8-144: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High

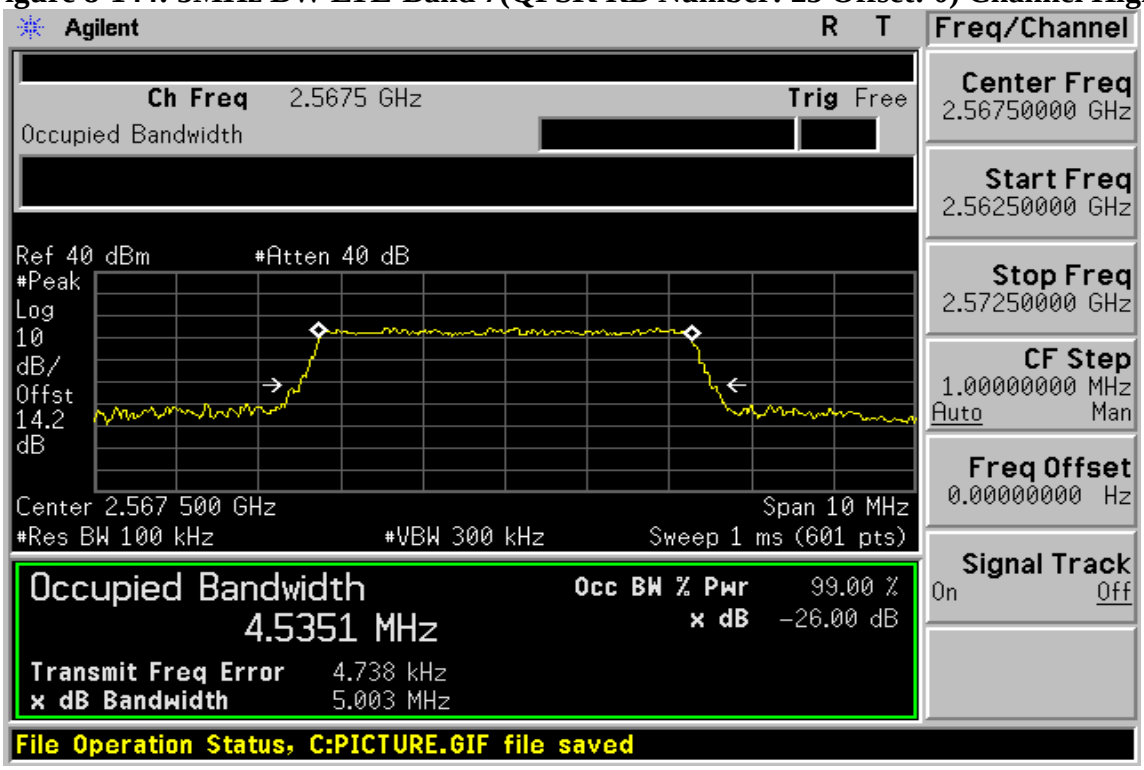

Figure 8-145: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Low

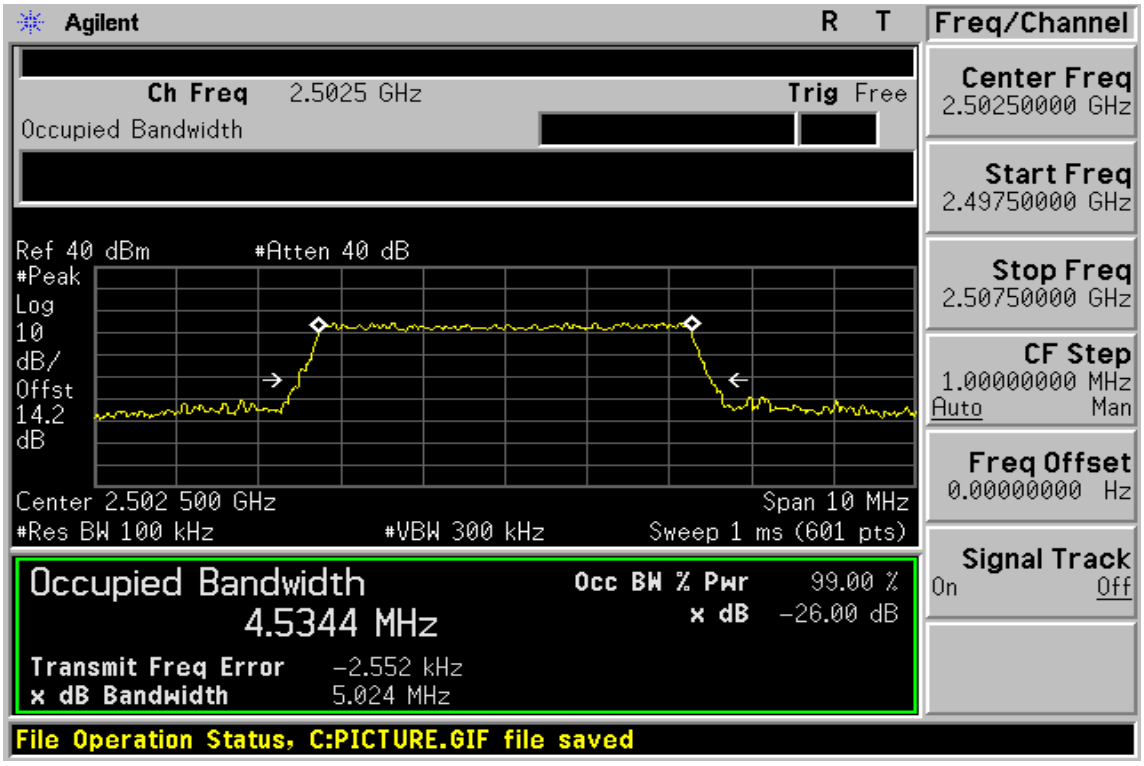

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Figure 8-146: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid

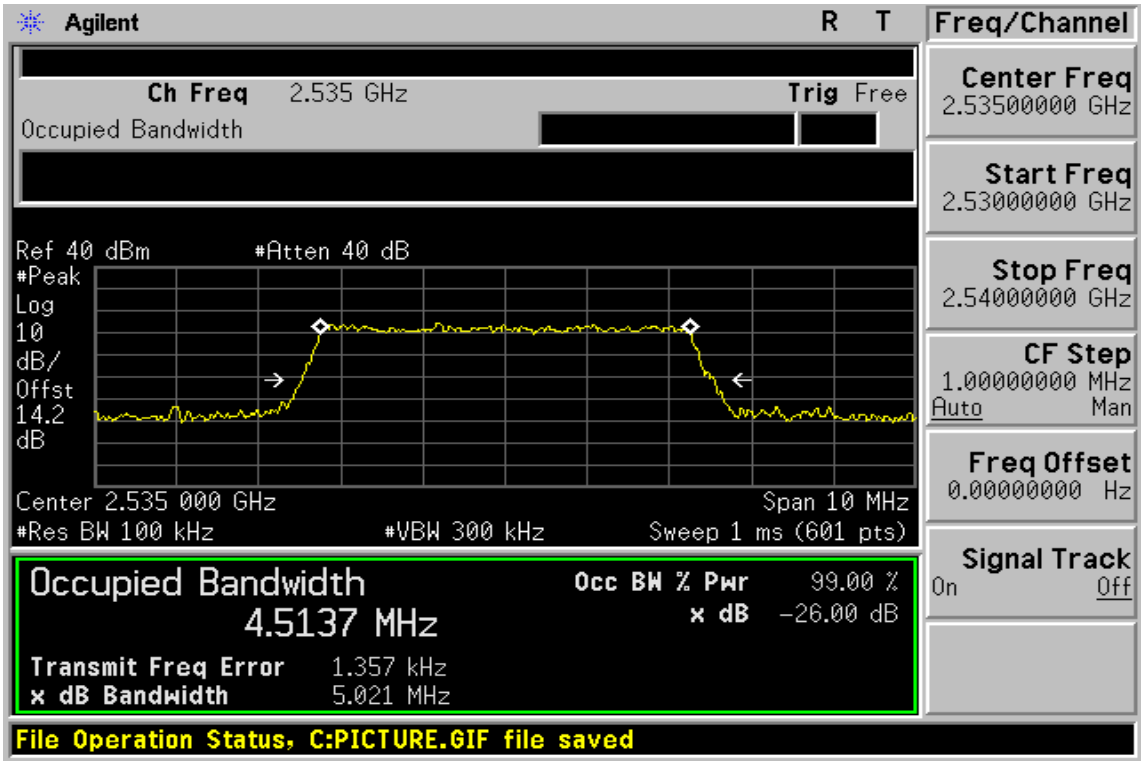

Figure 8-147: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel High

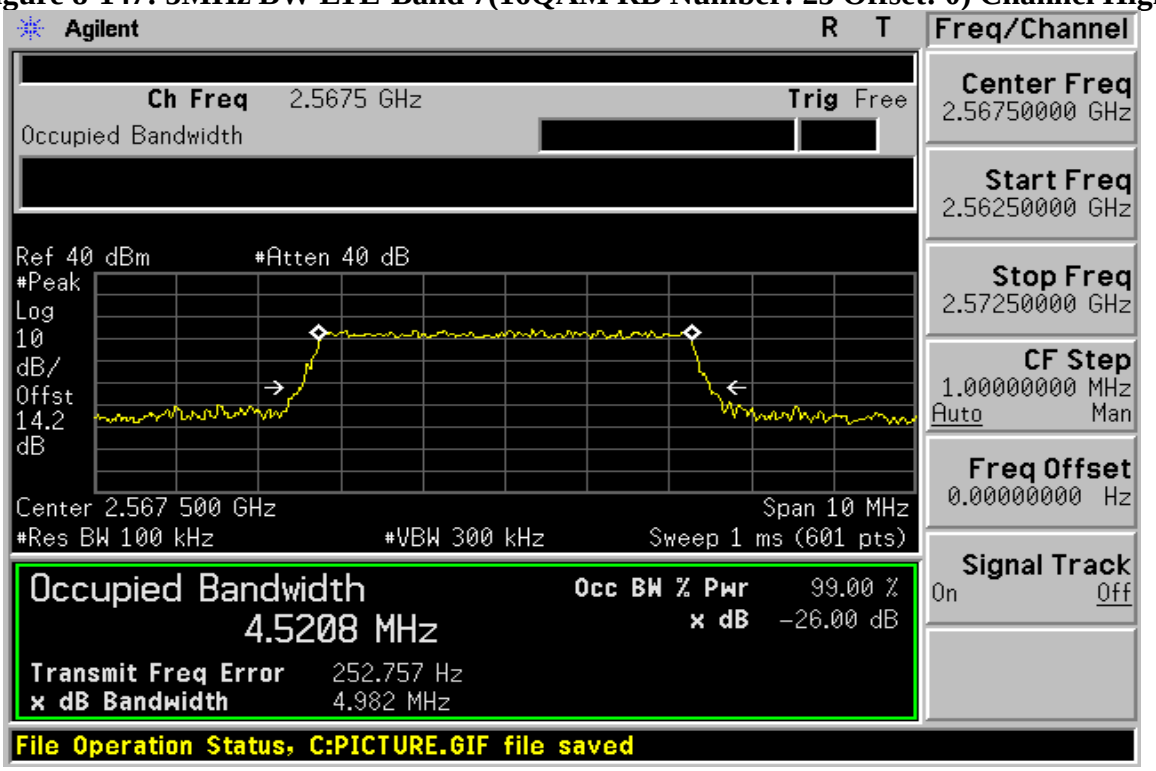

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Figure 8-148: 10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low

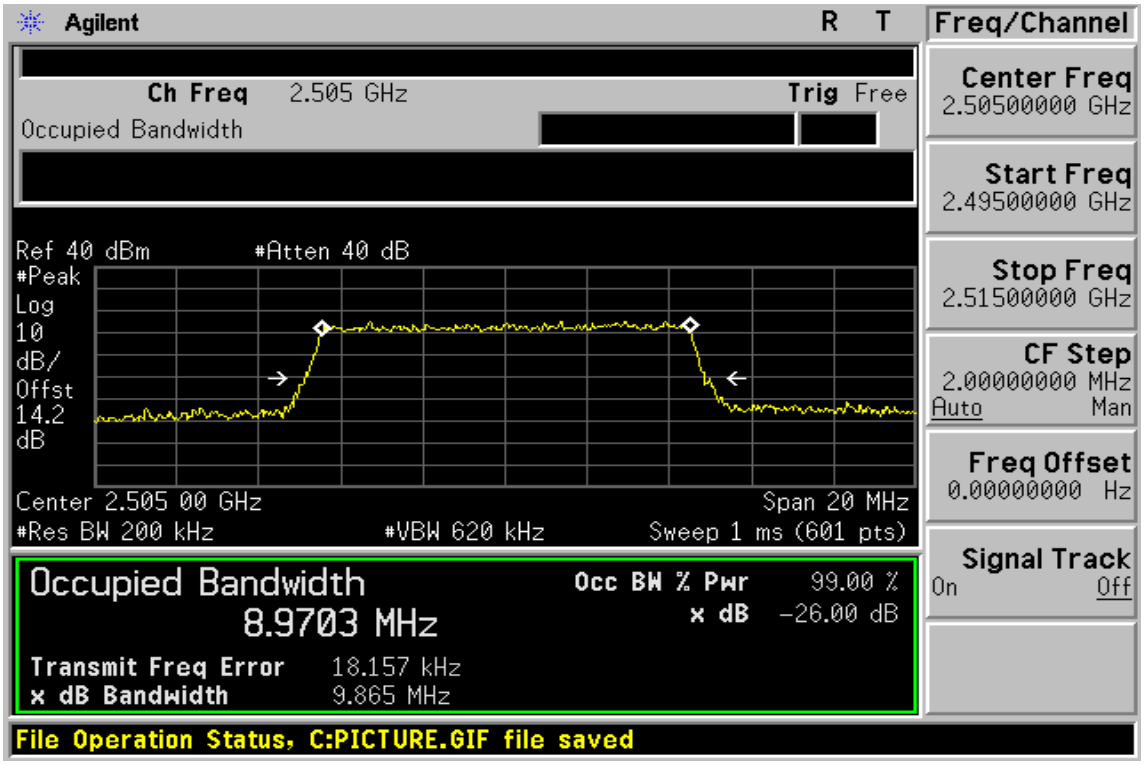

Figure 8-149: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel Mid

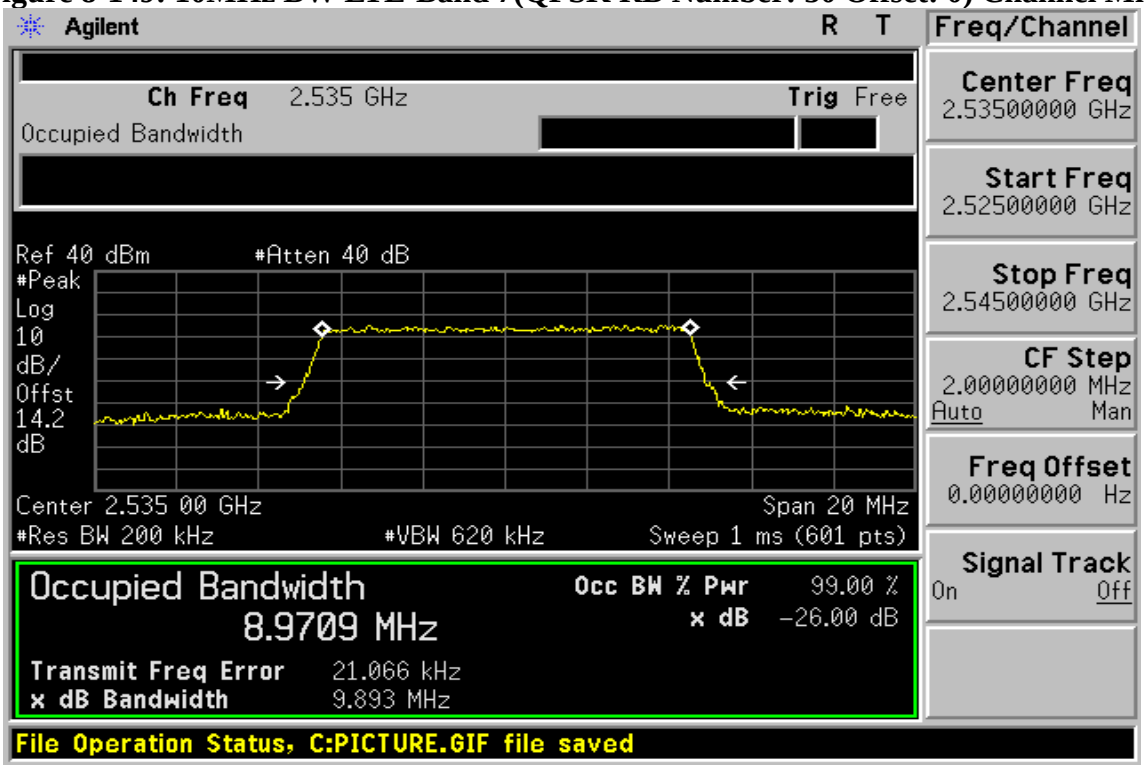

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Figure 8-150: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High

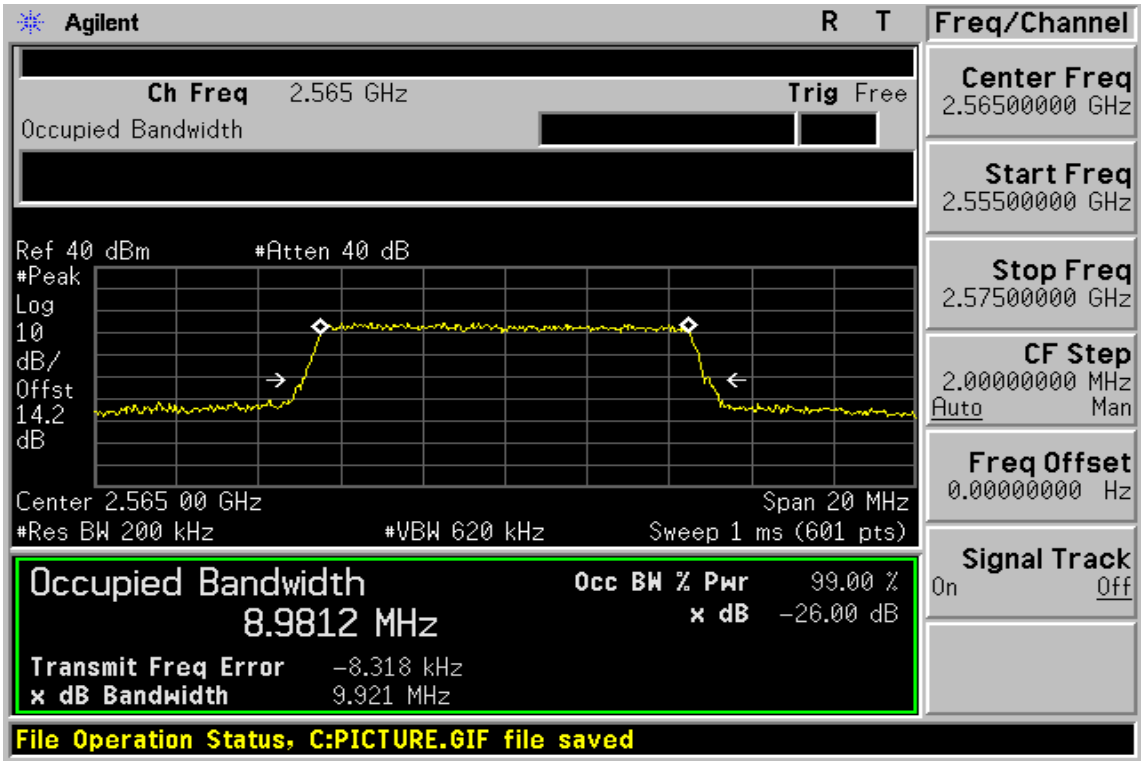

Figure 8-151: 10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0) Channel Low

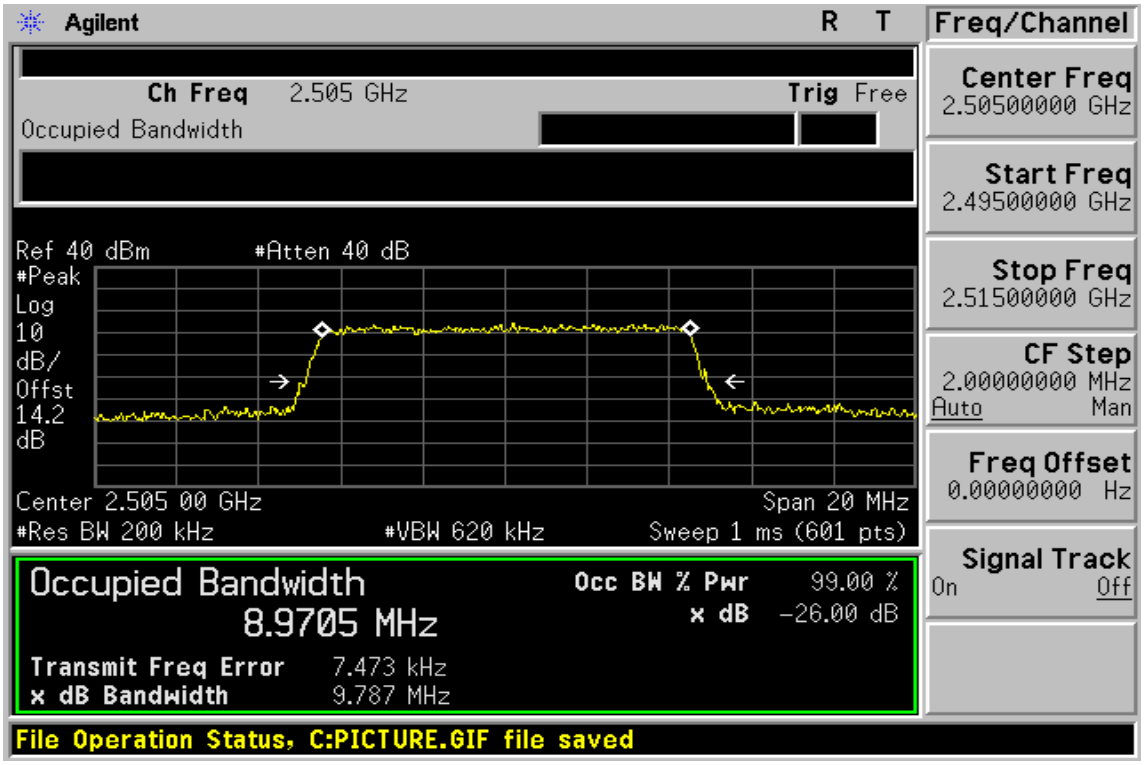

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Figure 8-152: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid

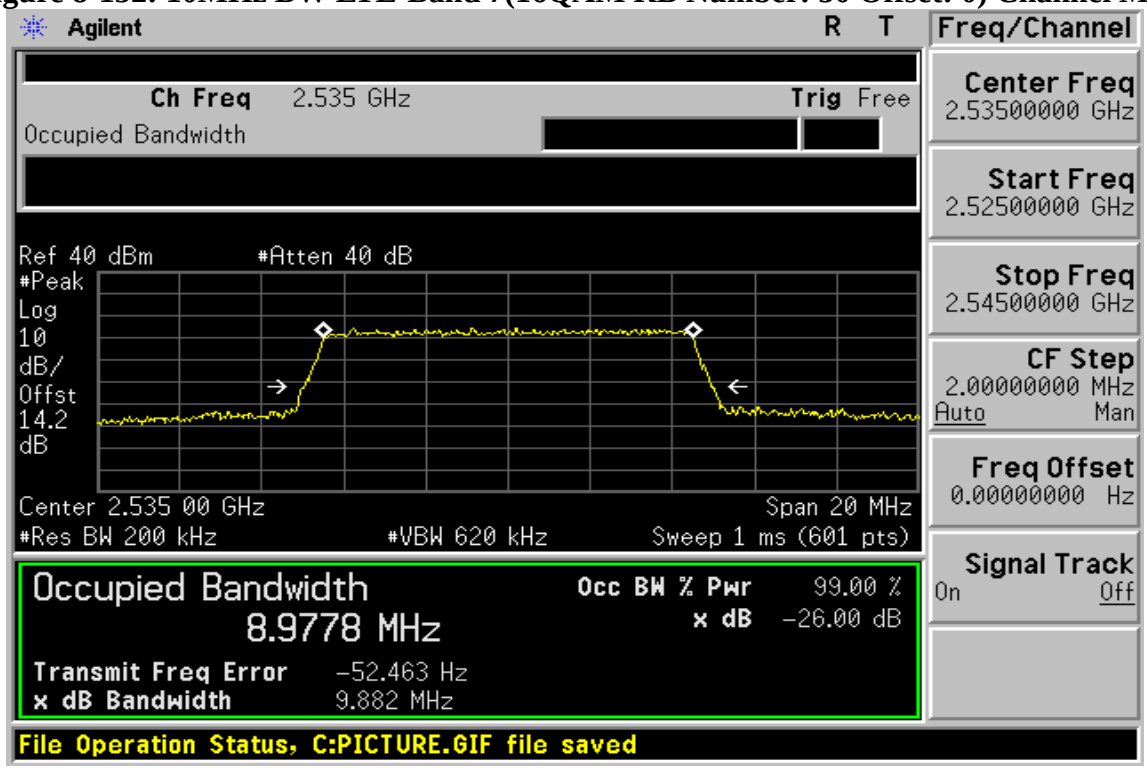

Figure 8-153: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel High

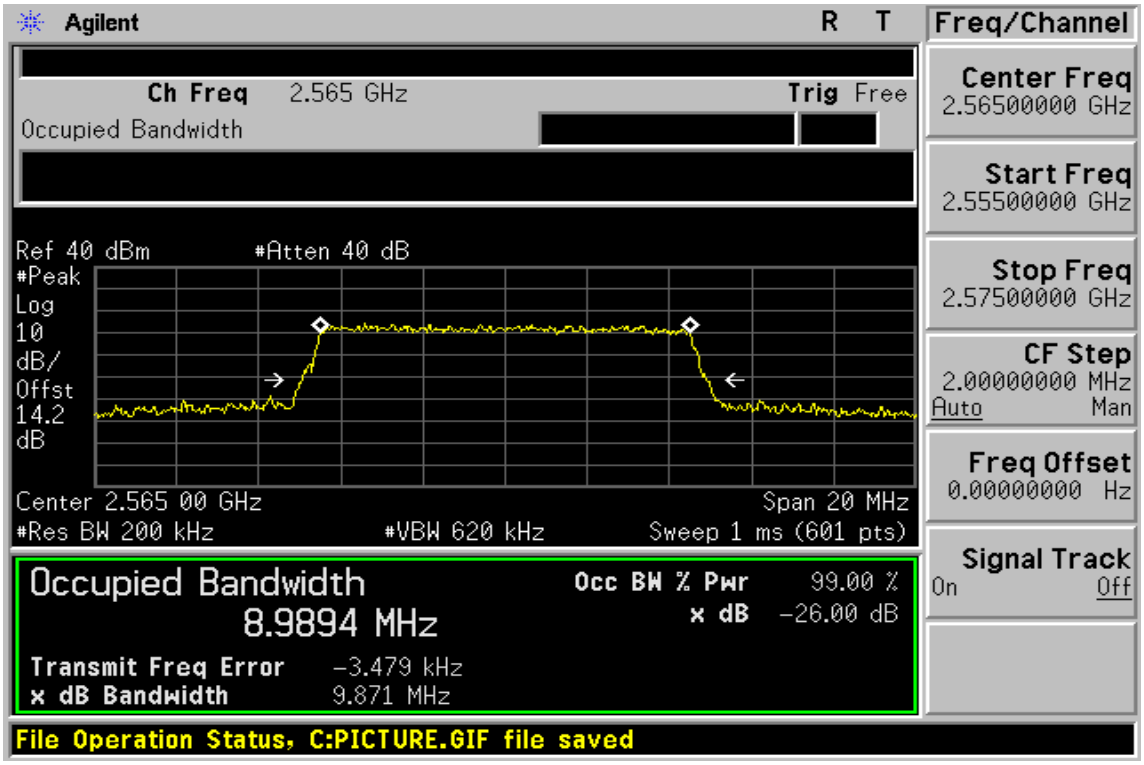

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Figure 8-154: 15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low

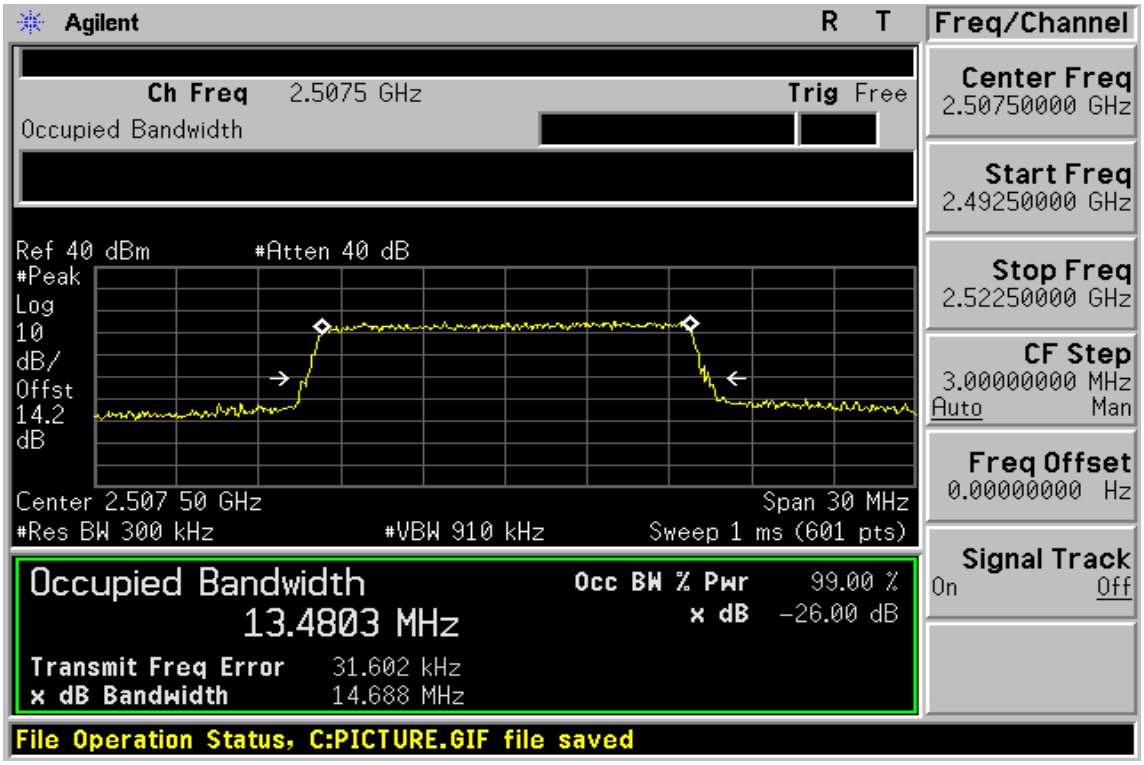

Figure 8-155: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel Mid

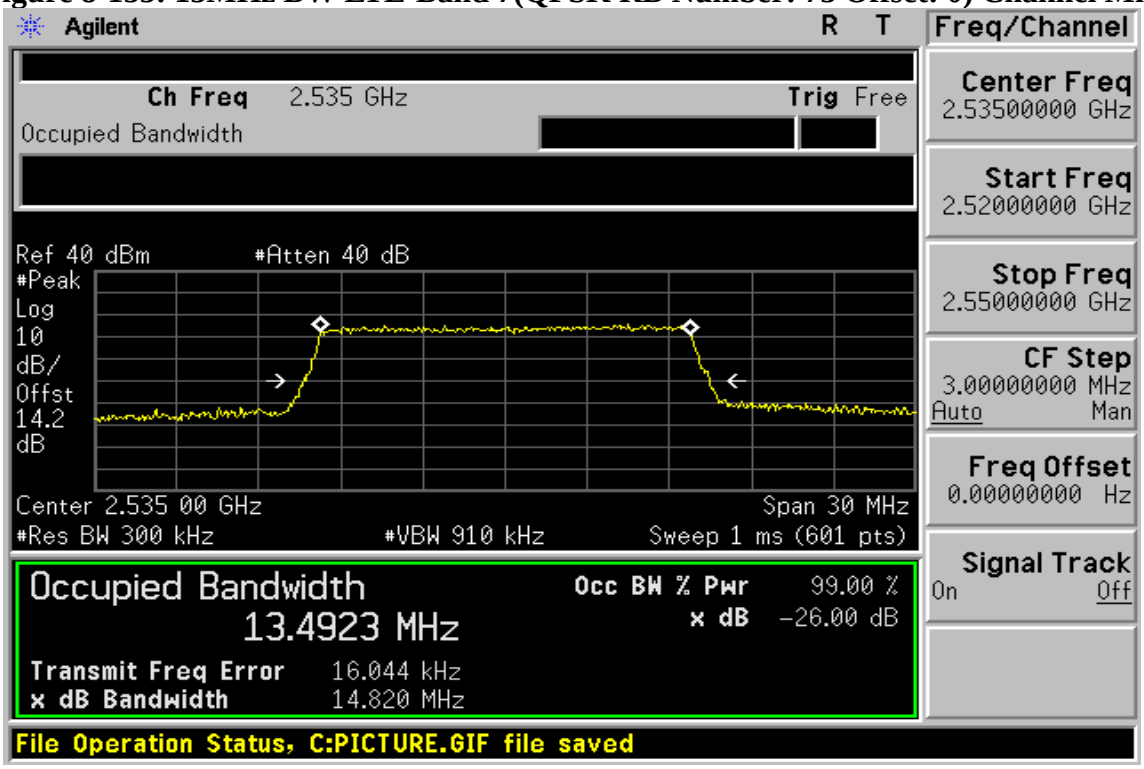

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Figure 8-156: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High

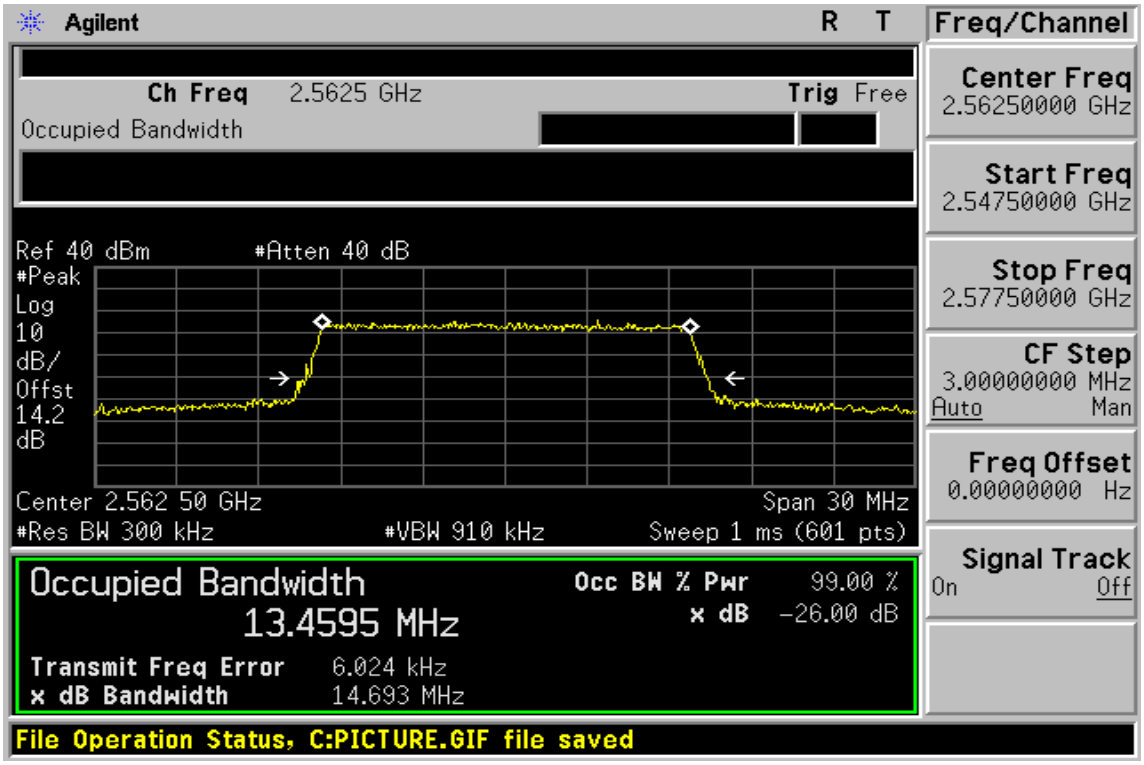

Figure 8-157: 15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0) Channel Low

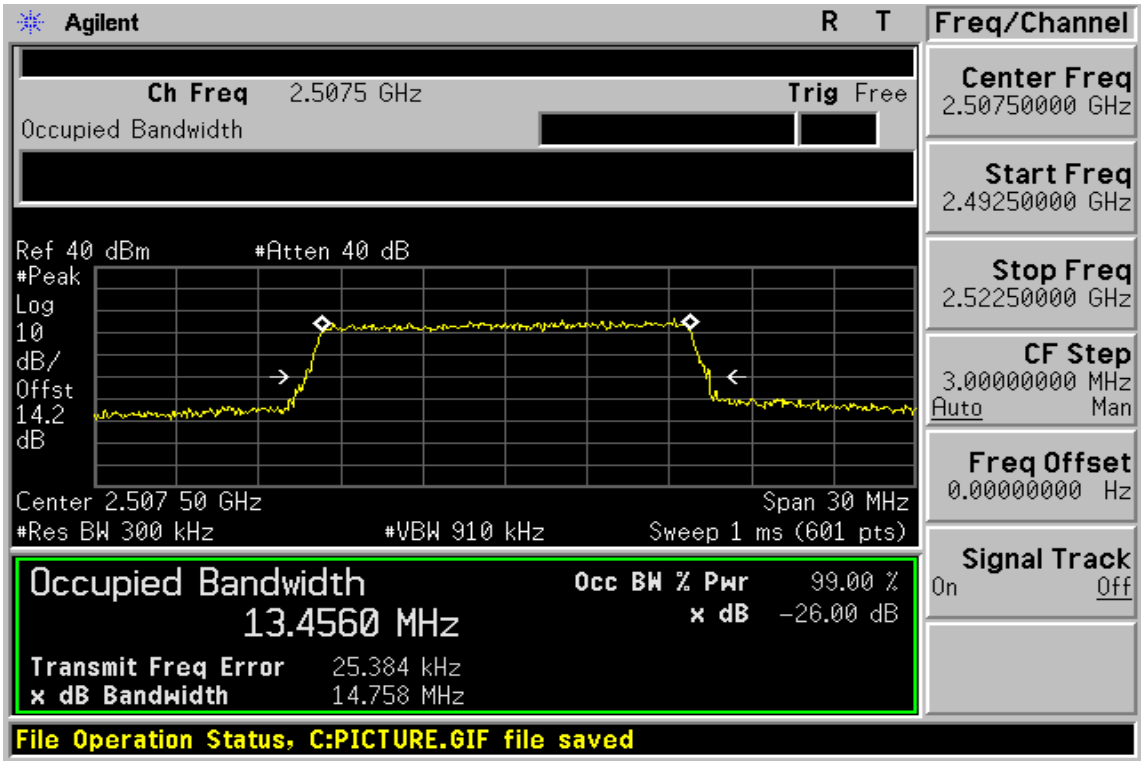

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Figure 8-158: 15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid

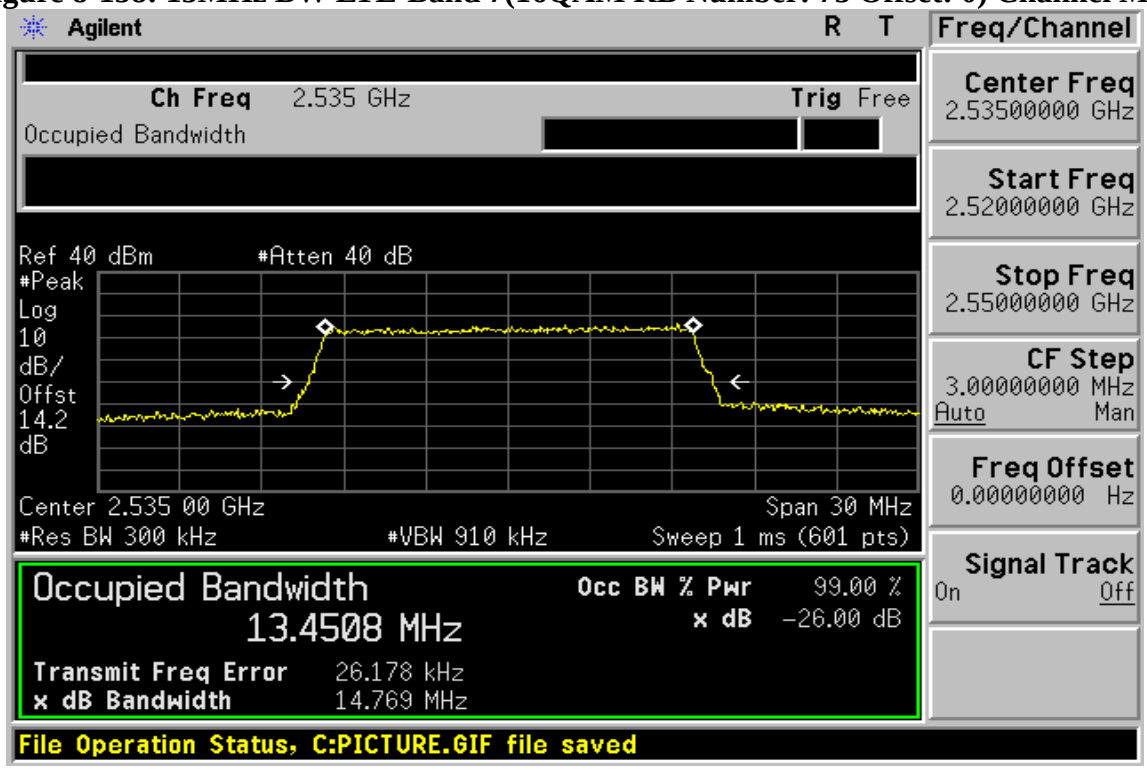

Figure 8-159: 15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel High

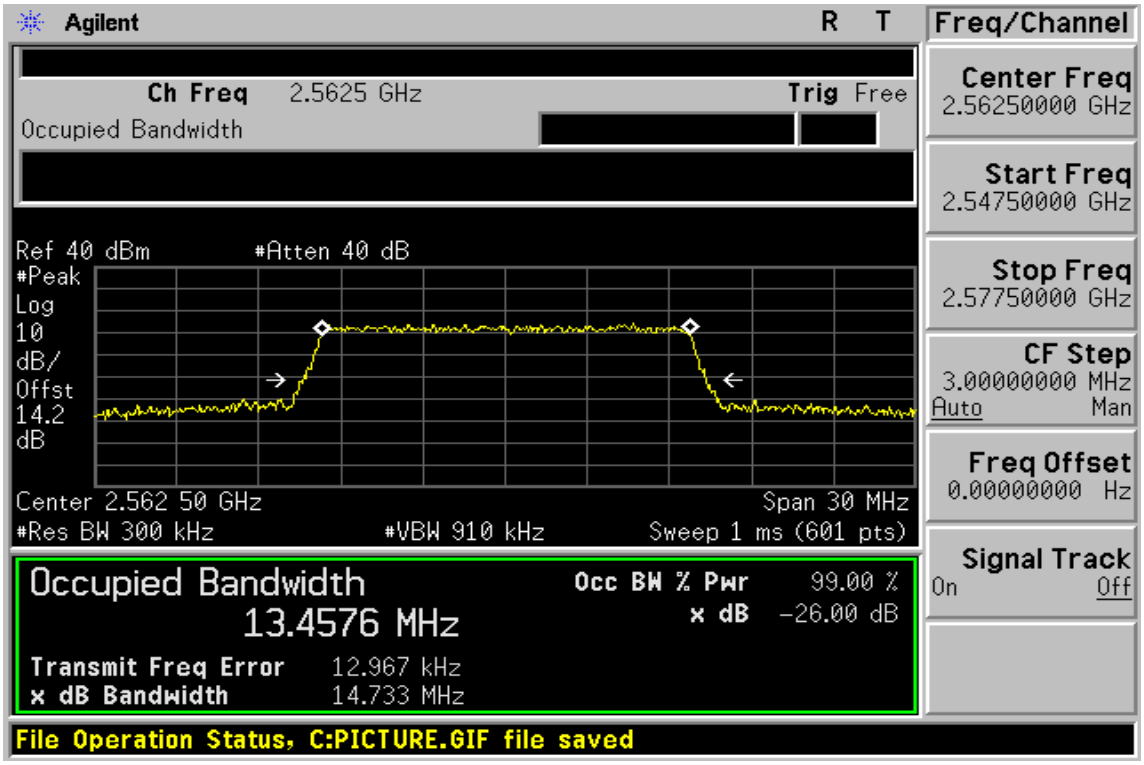

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Figure 8-160: 20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low

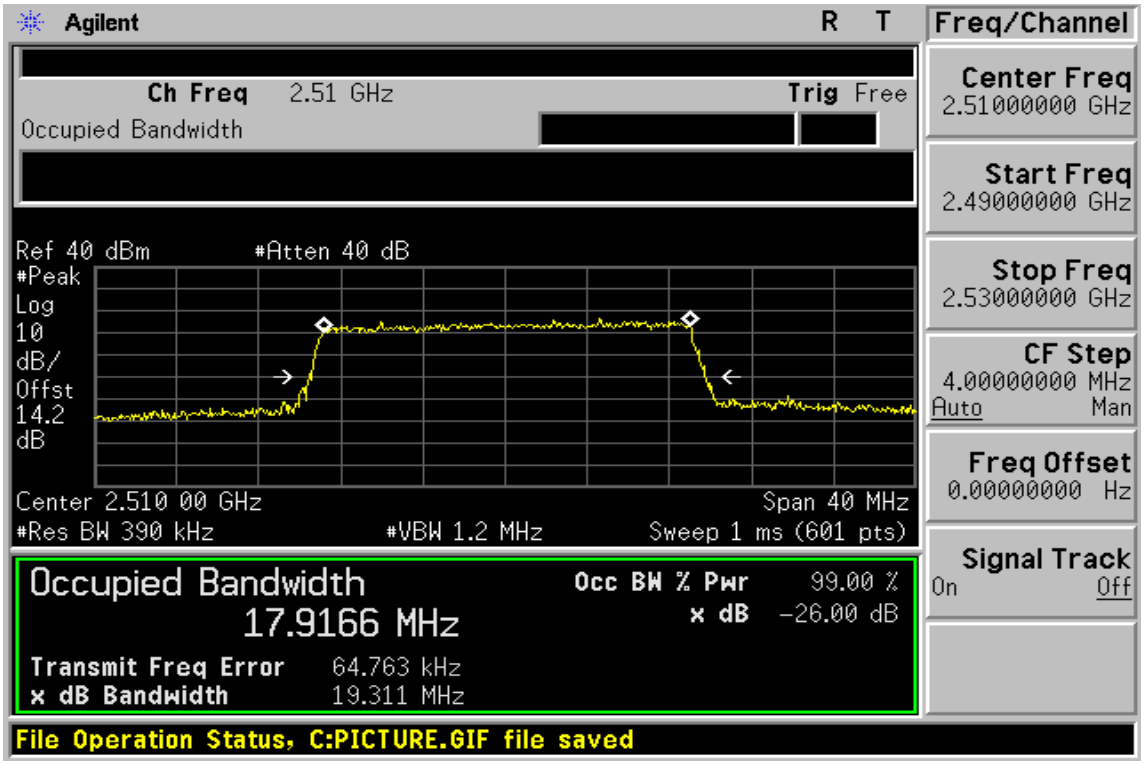

Figure 8-161: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel Mid

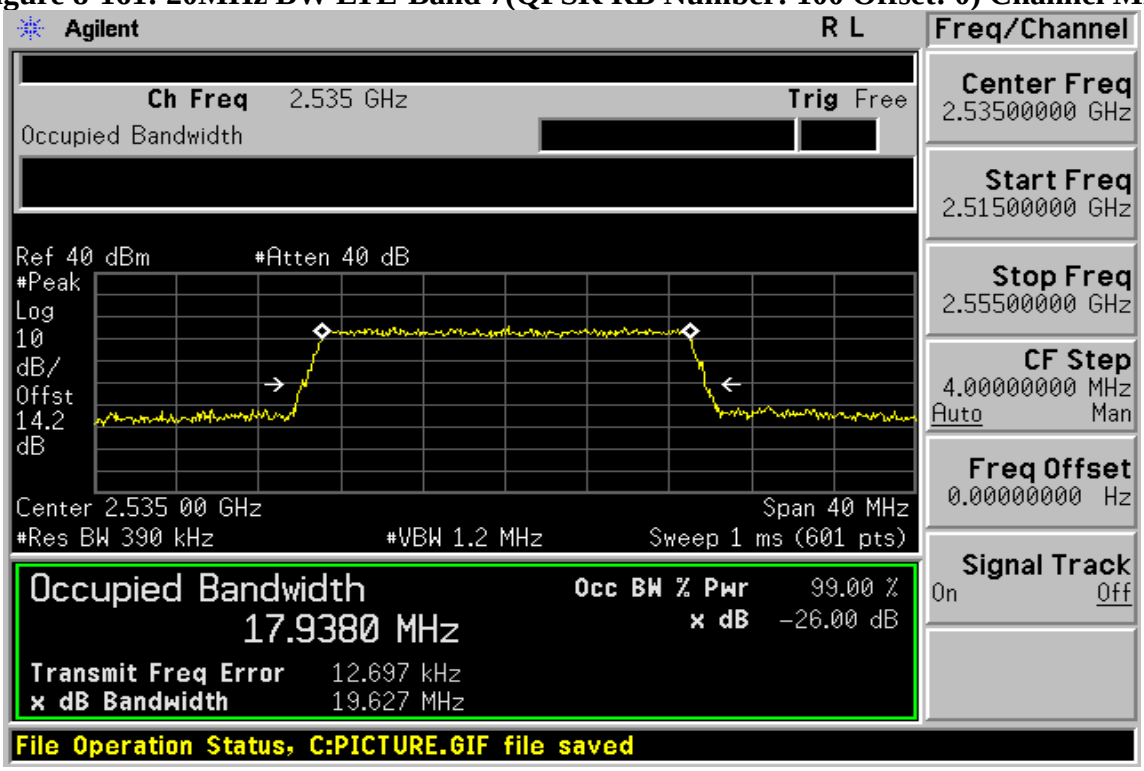

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Figure 8-162: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High

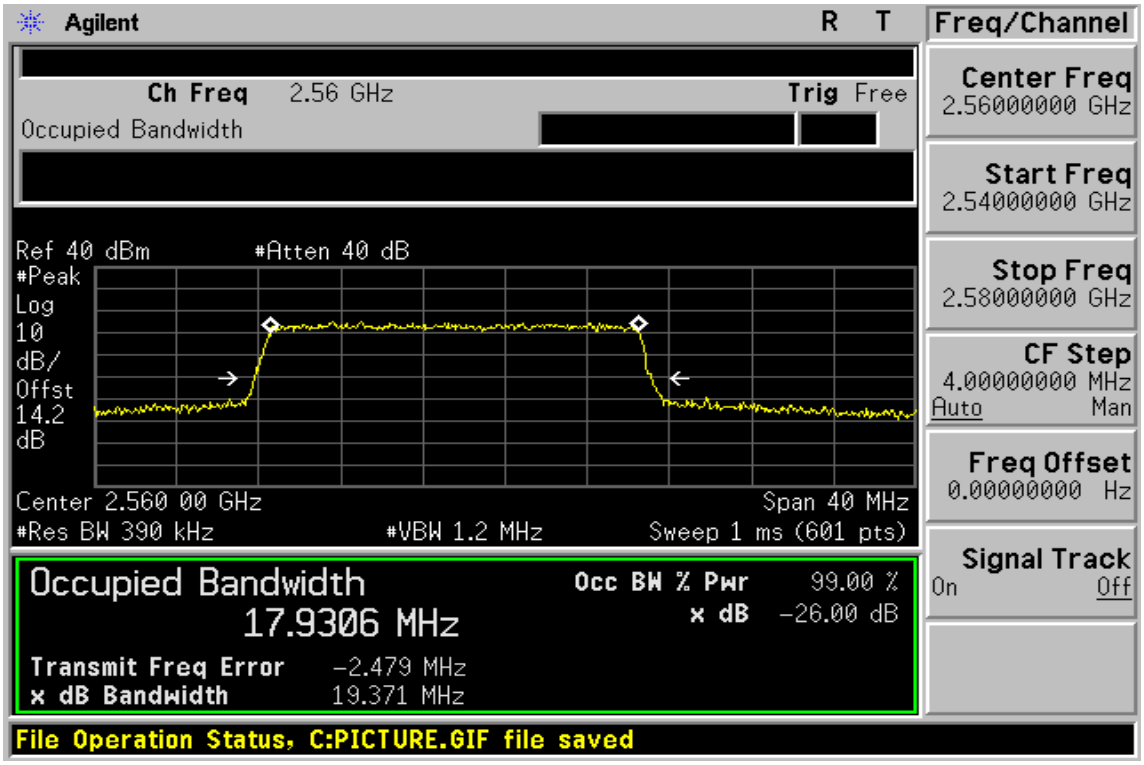

Figure 8-163: 20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0) Channel Low

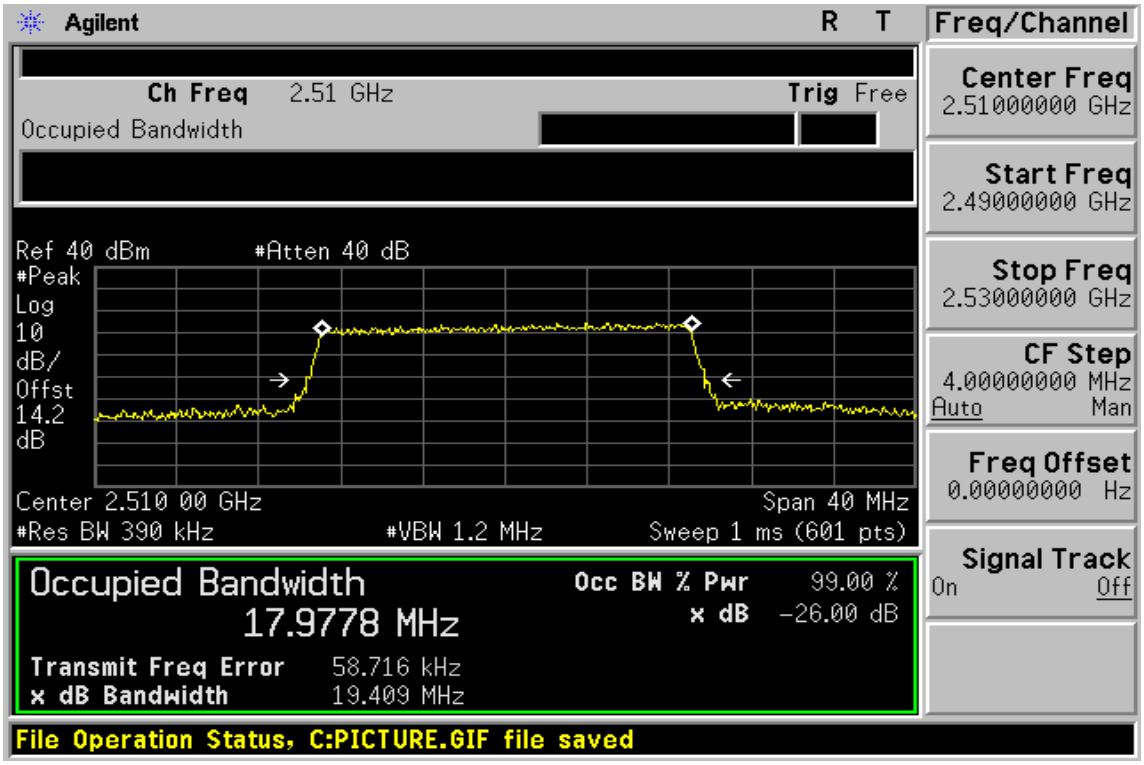

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Figure 8-164: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid

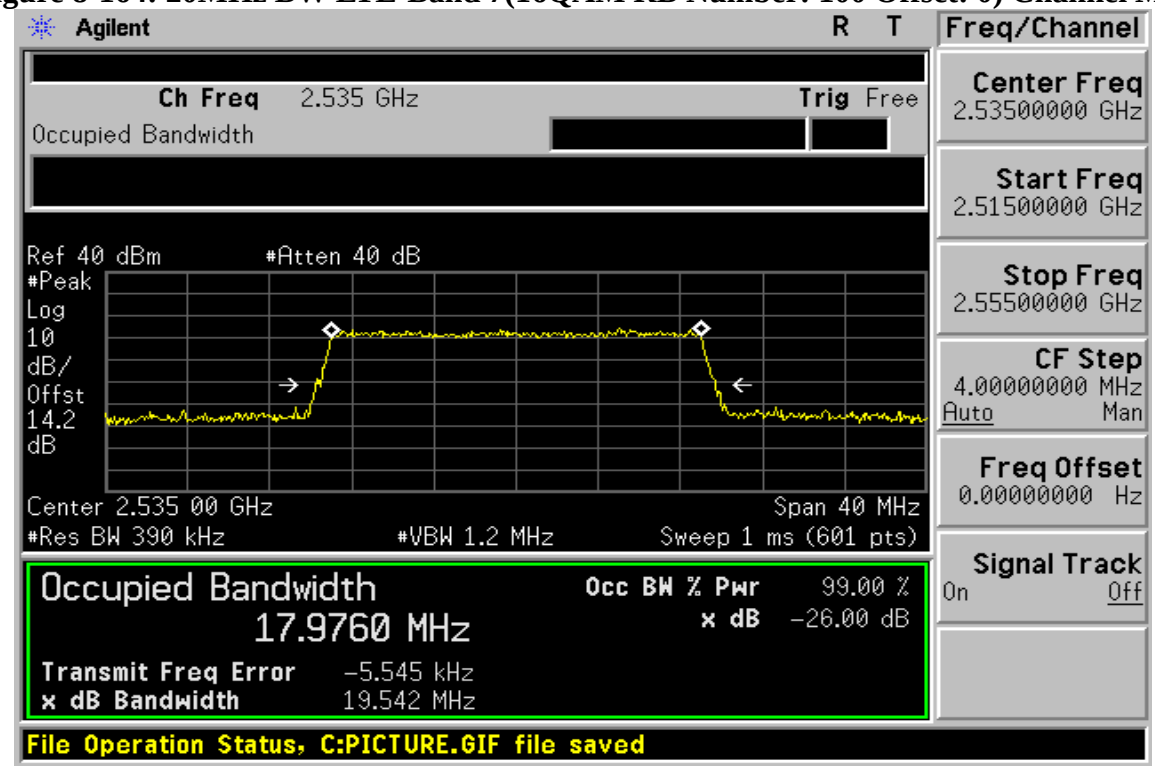
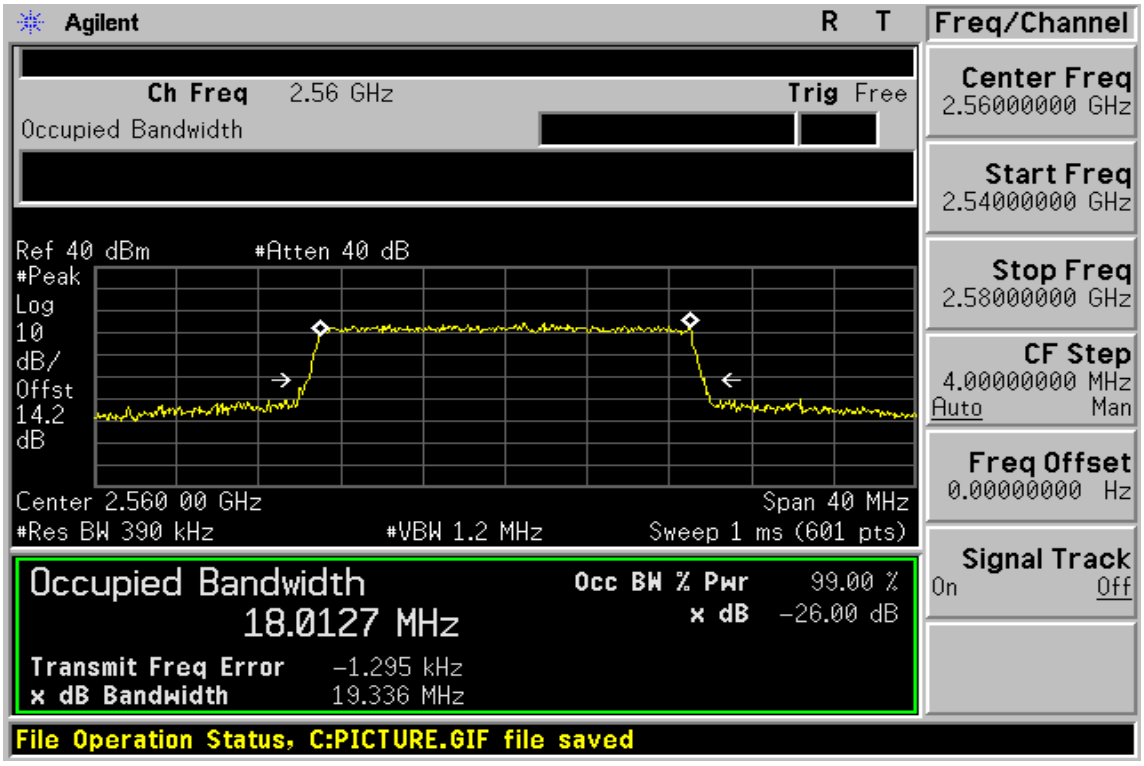


Figure 8-165: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), §27.53(g)(h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm). §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

100KHz Bandedge:

FCC §27.53(g)

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

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4) (6)

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

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

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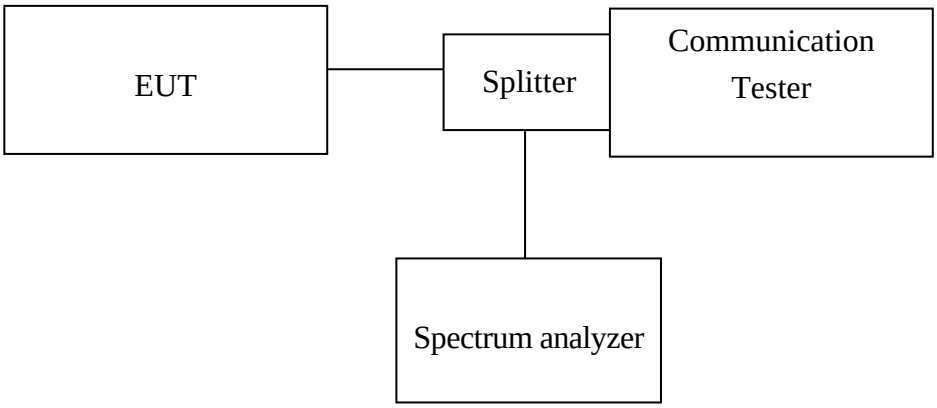
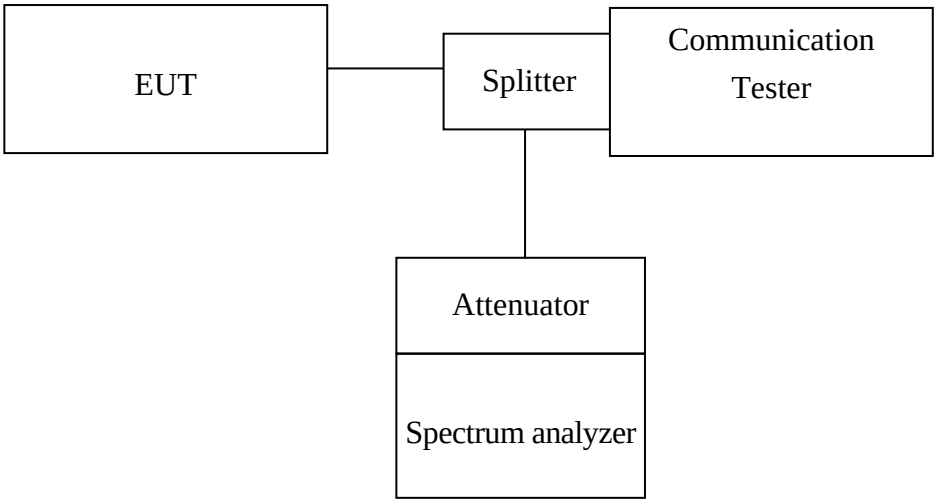
9.2. Test SET-UP:

Out of band emission



Band Edge



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9.3. Measurement Procedure:

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

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm.

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB. Limit, -13dBm

(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. Limit, -13dBm

Conducted Emission:

1、 To connect Antenna Port of EUT to Spectrum.
2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
4、 Via Software, combine 6 spans of frequency range into one plot

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to next pages.

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

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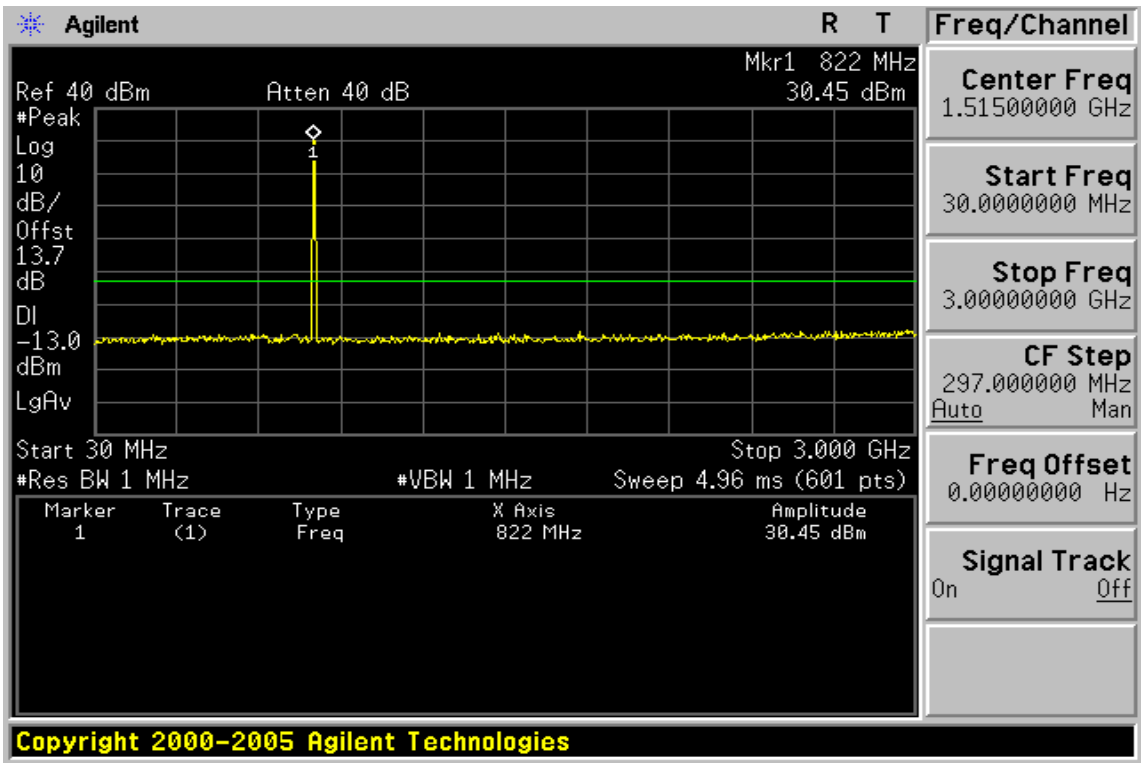
Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest



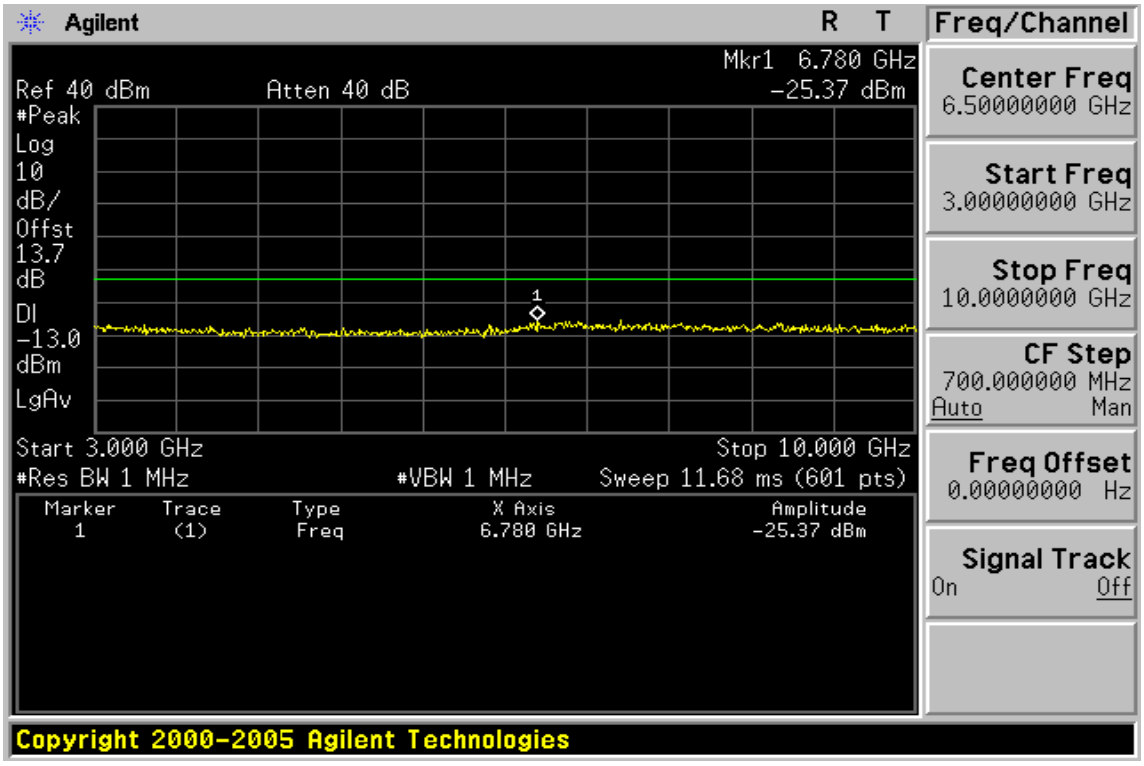


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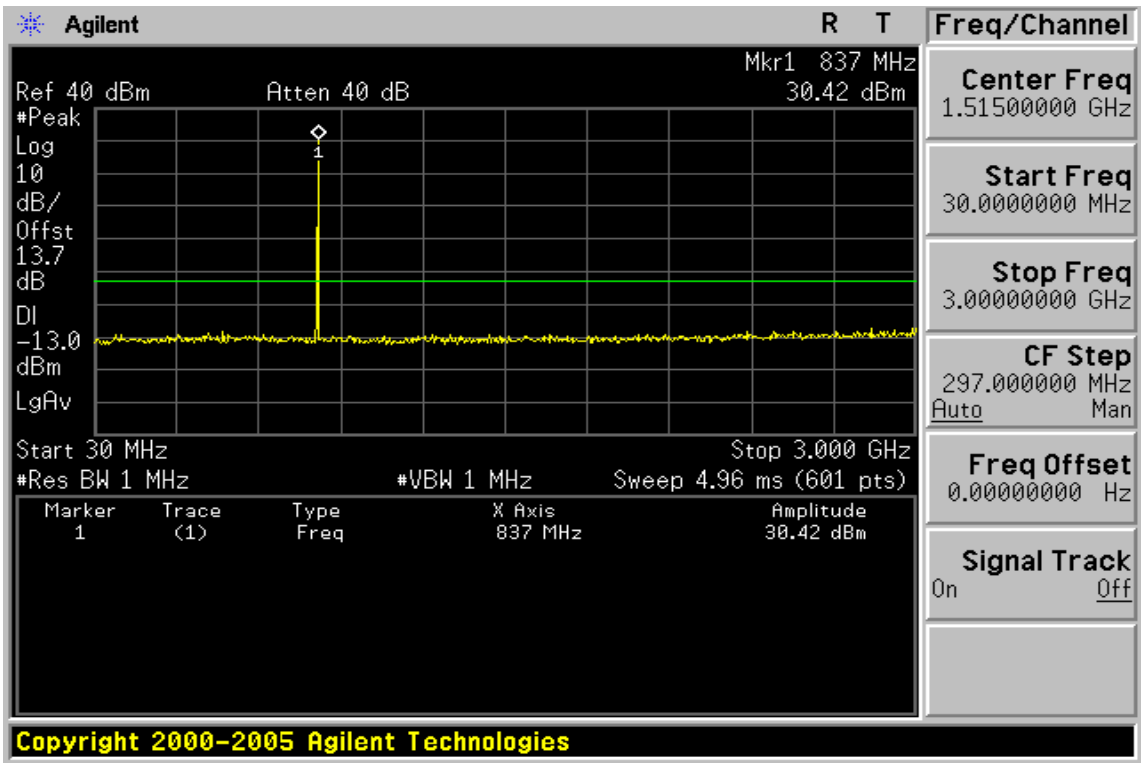
Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



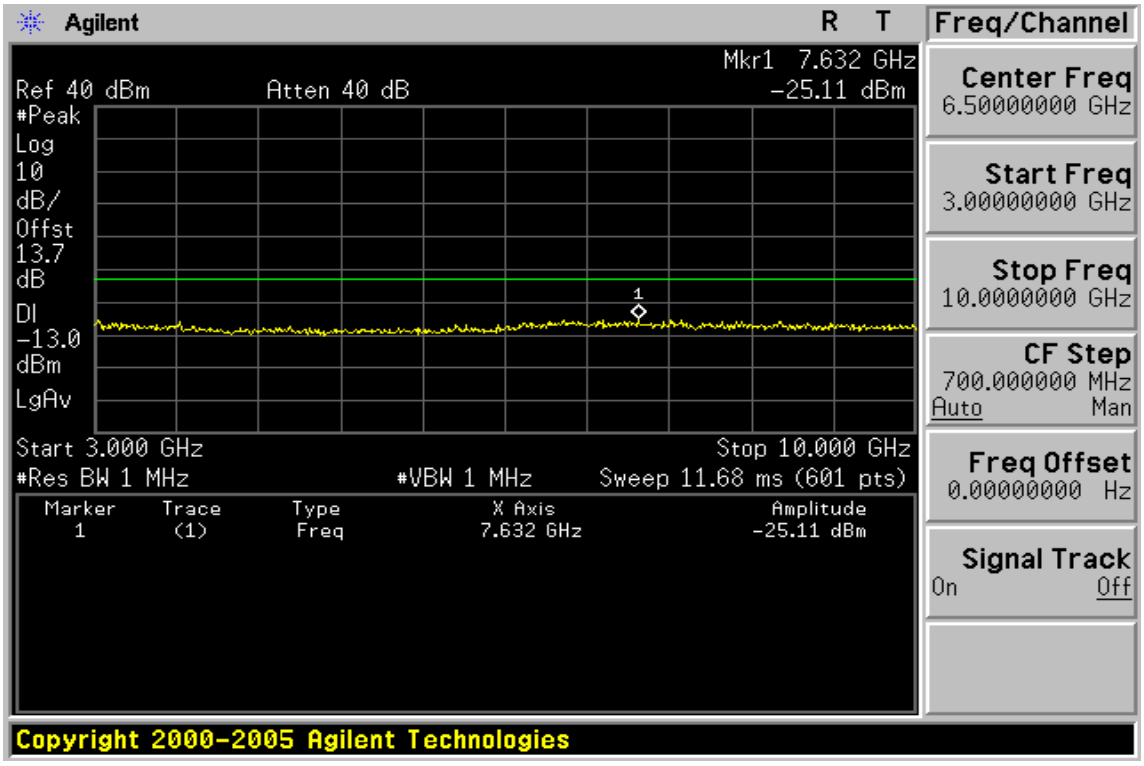


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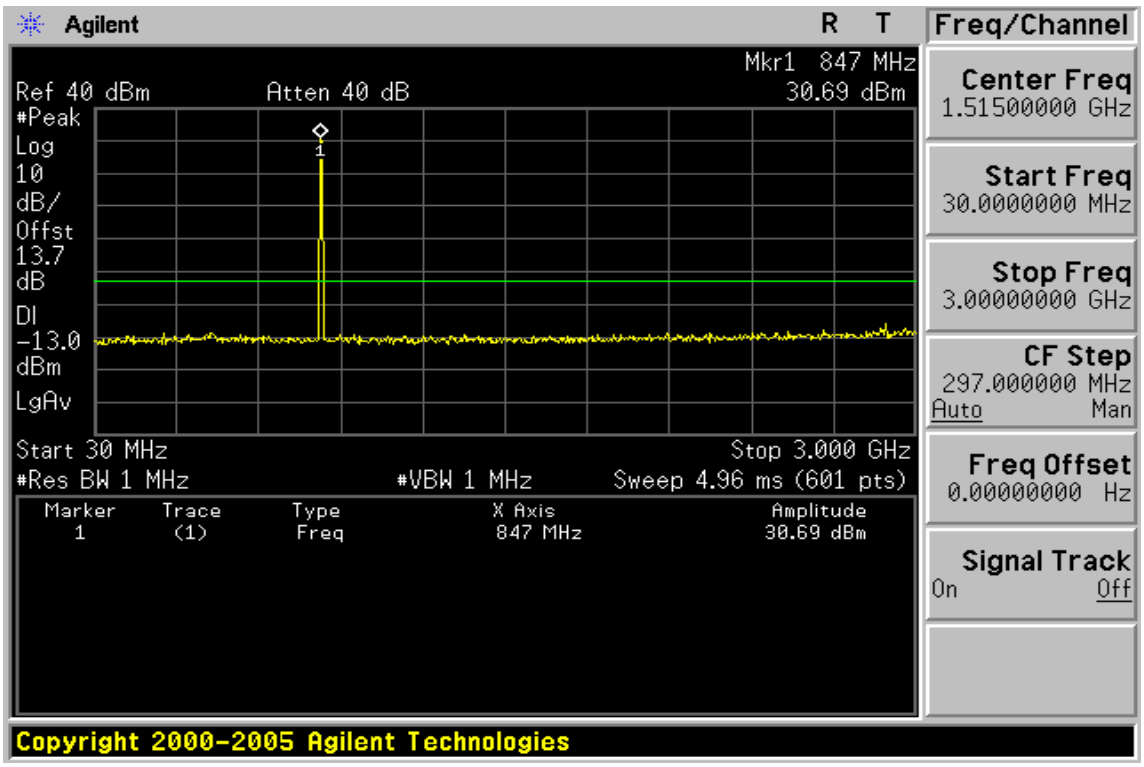
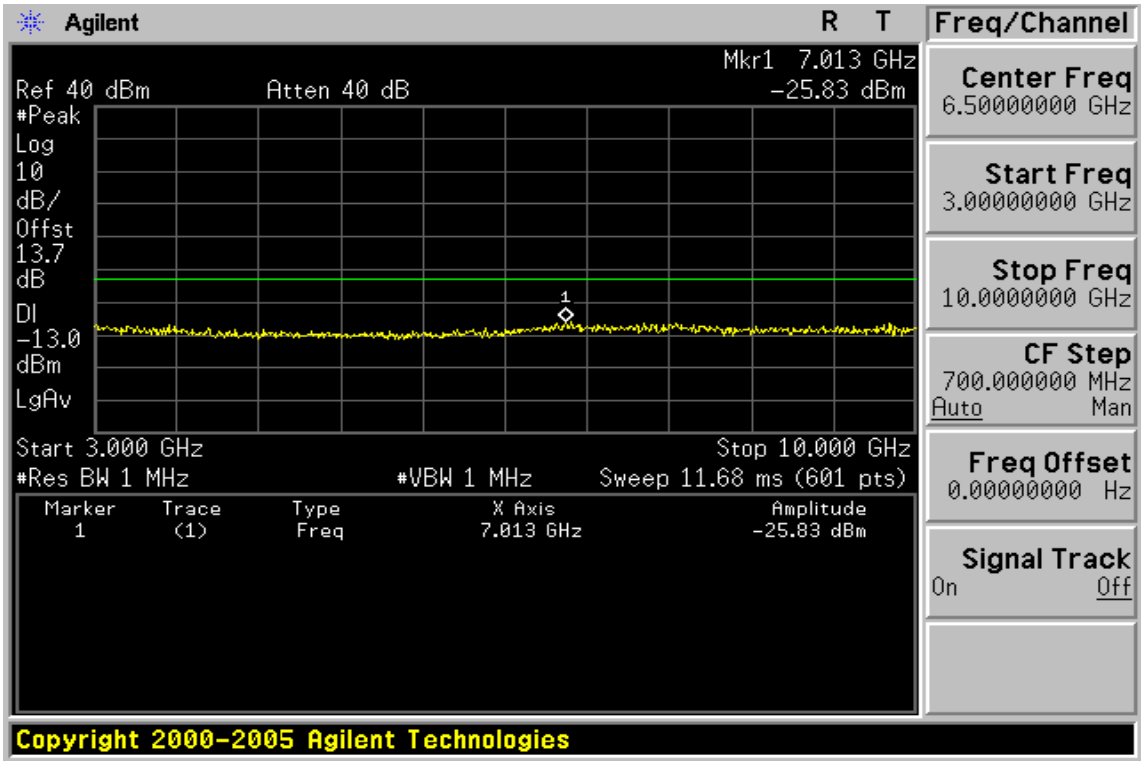
Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest





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Out of Band emission at antenna terminals – GSM 850

Fundamental Frequency :824.2 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
6780.00	S	-25.37	-13.00	12.37
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7529.40	H	---	-13.00	---
7632.00	S	-25.11	-13.00	12.11
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7013.00	S	-25.83	-13.00	12.83
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest

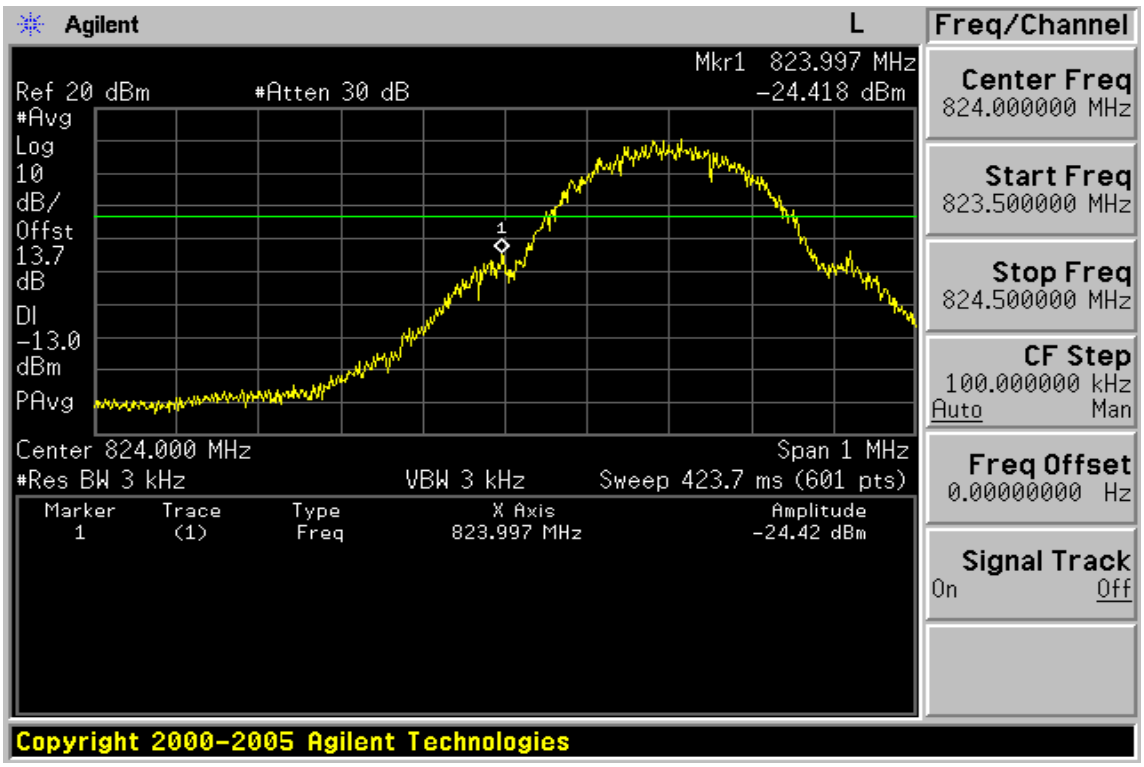
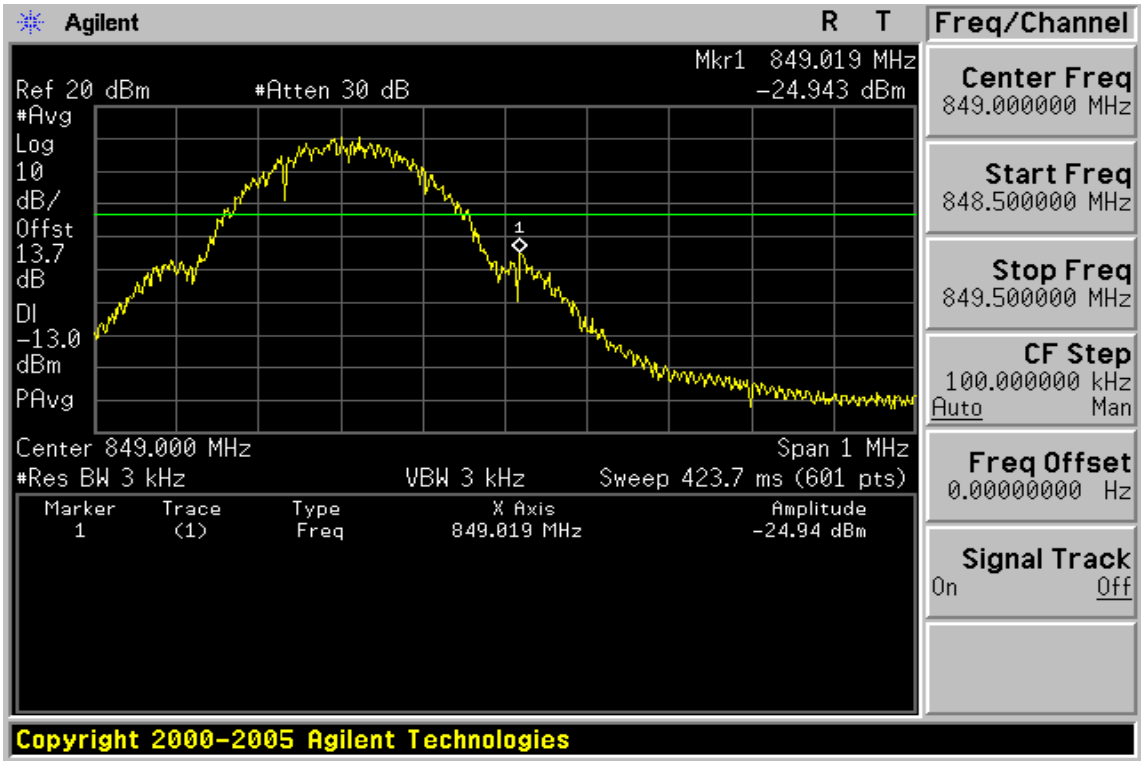


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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Band edge emission at antenna terminals – GSM 850 Low & High

Test Mode GSM 850 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-24.42	-13.00	11.42
849.019	-24.94	-13.00	11.94

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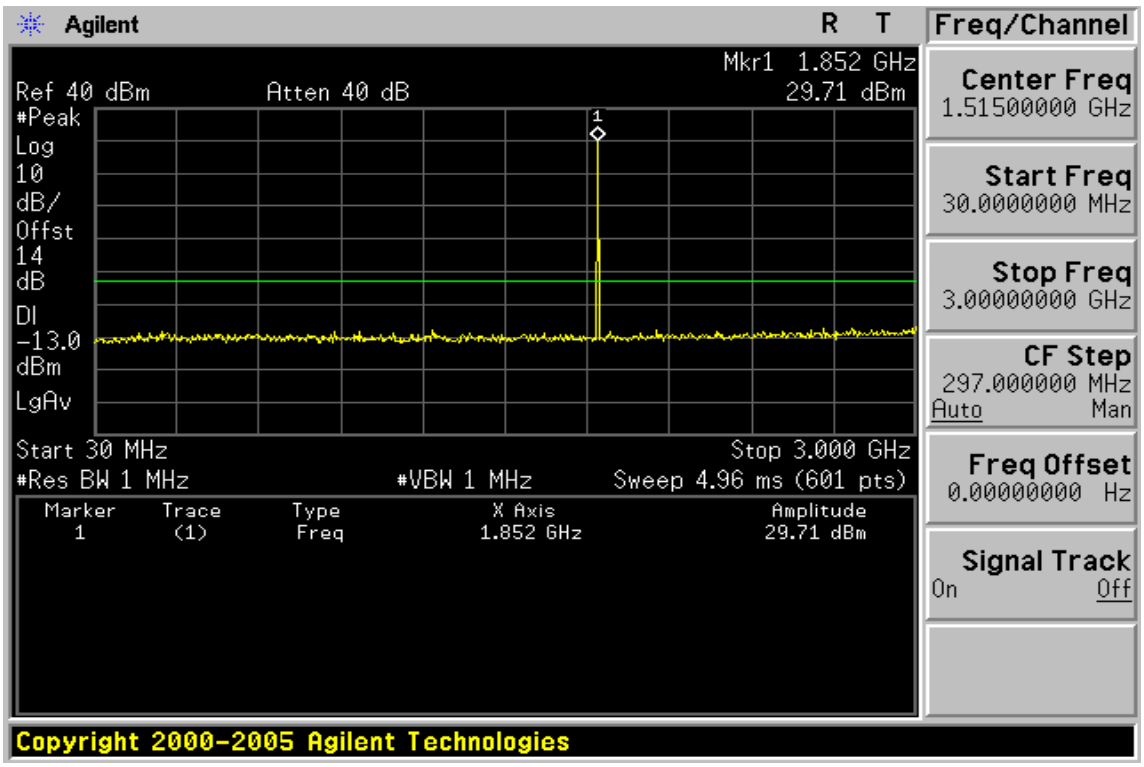
Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



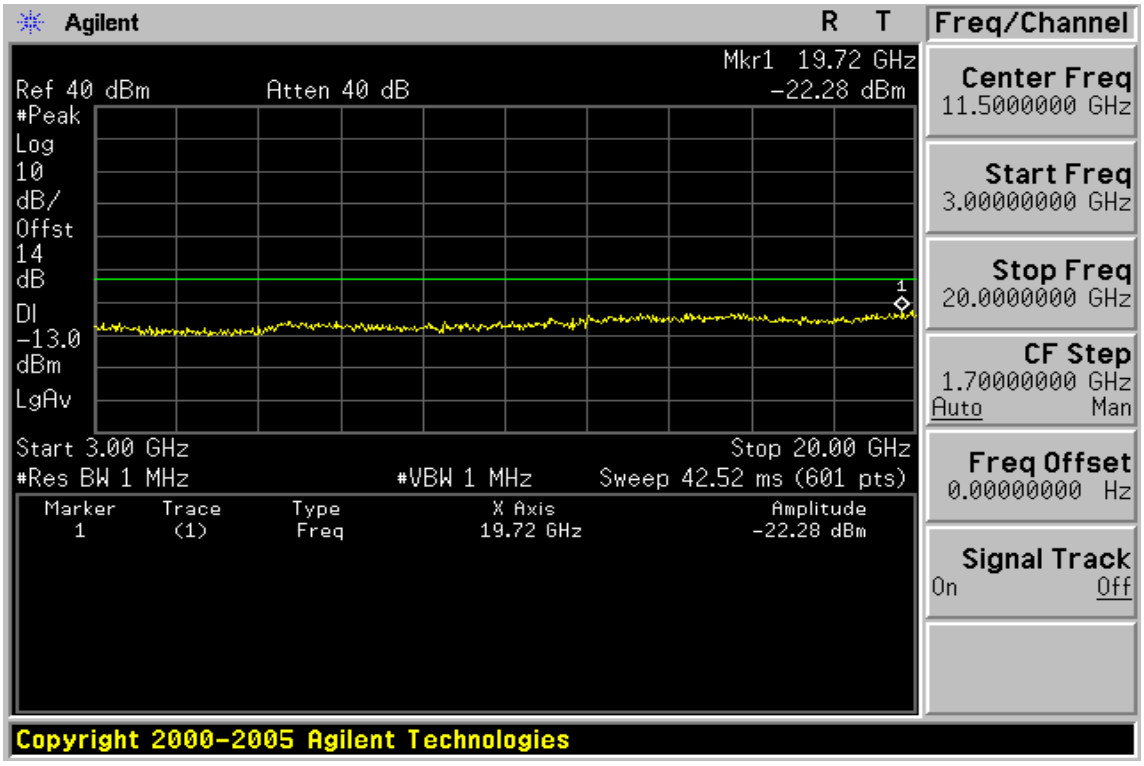


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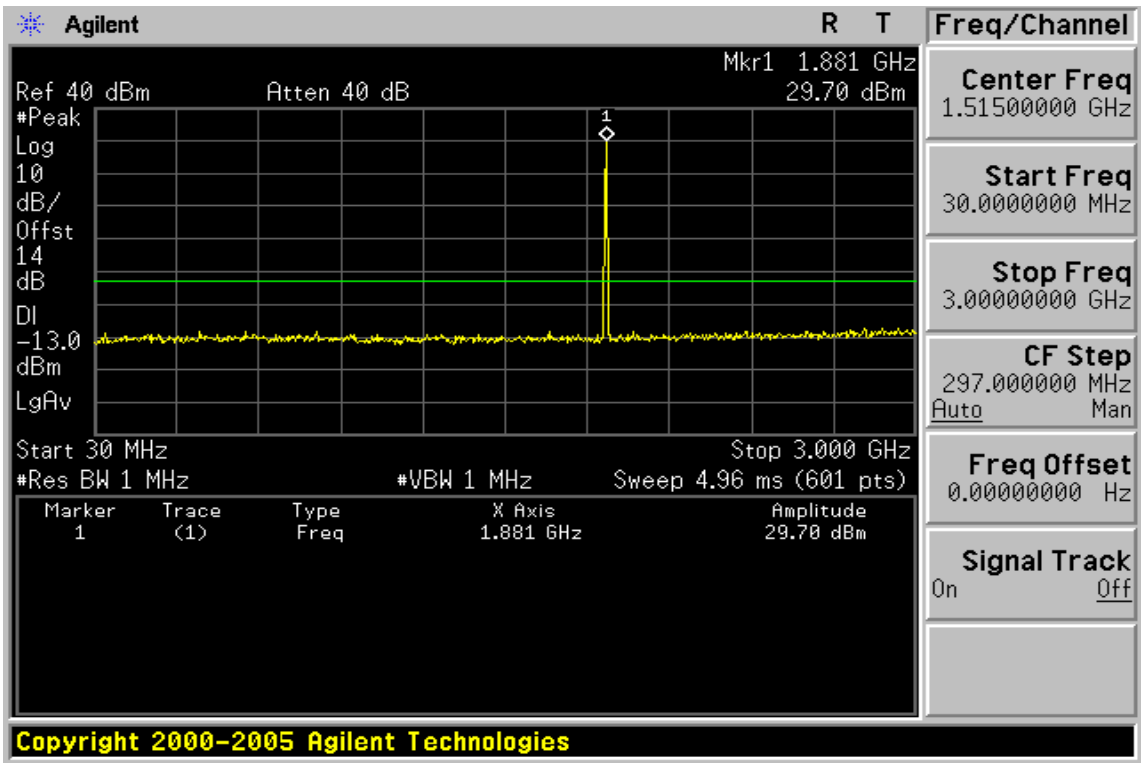
Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid



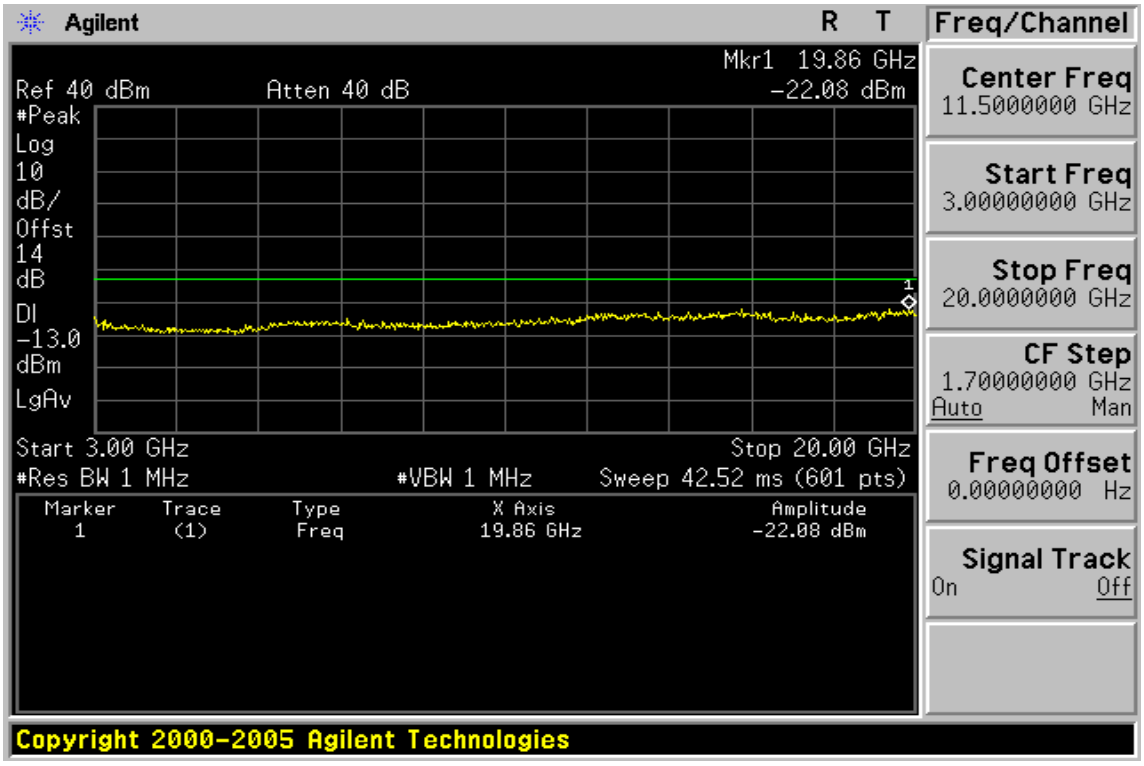


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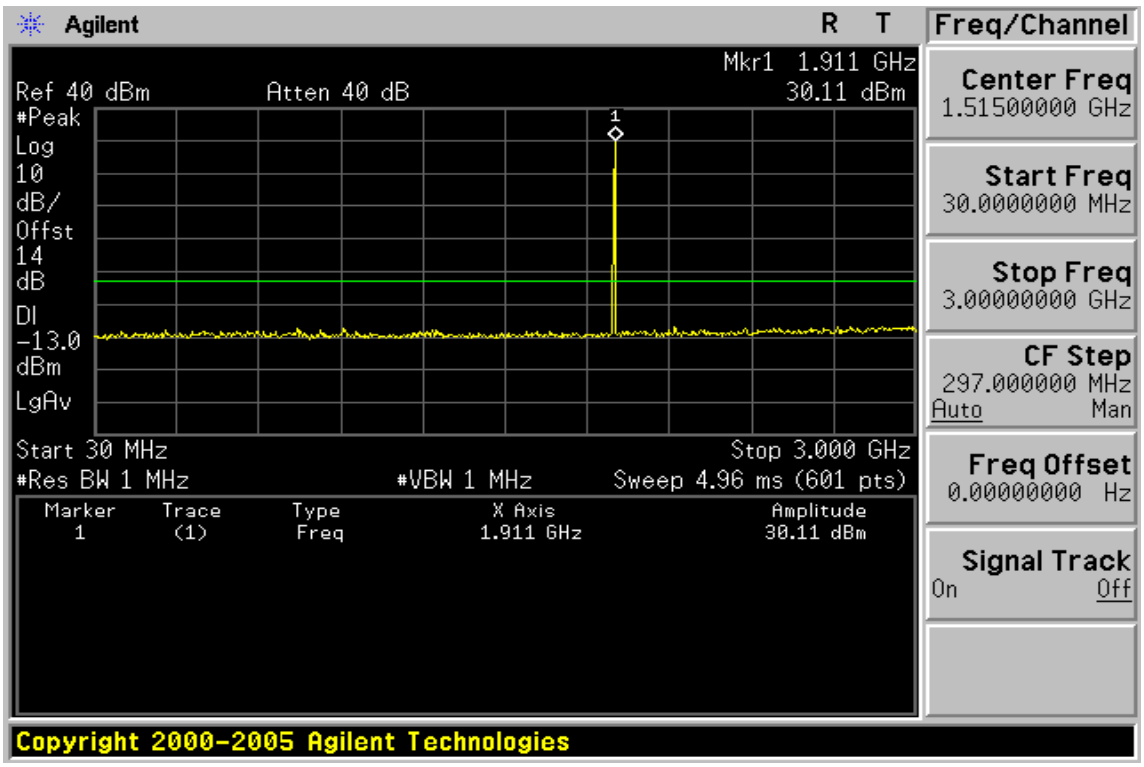
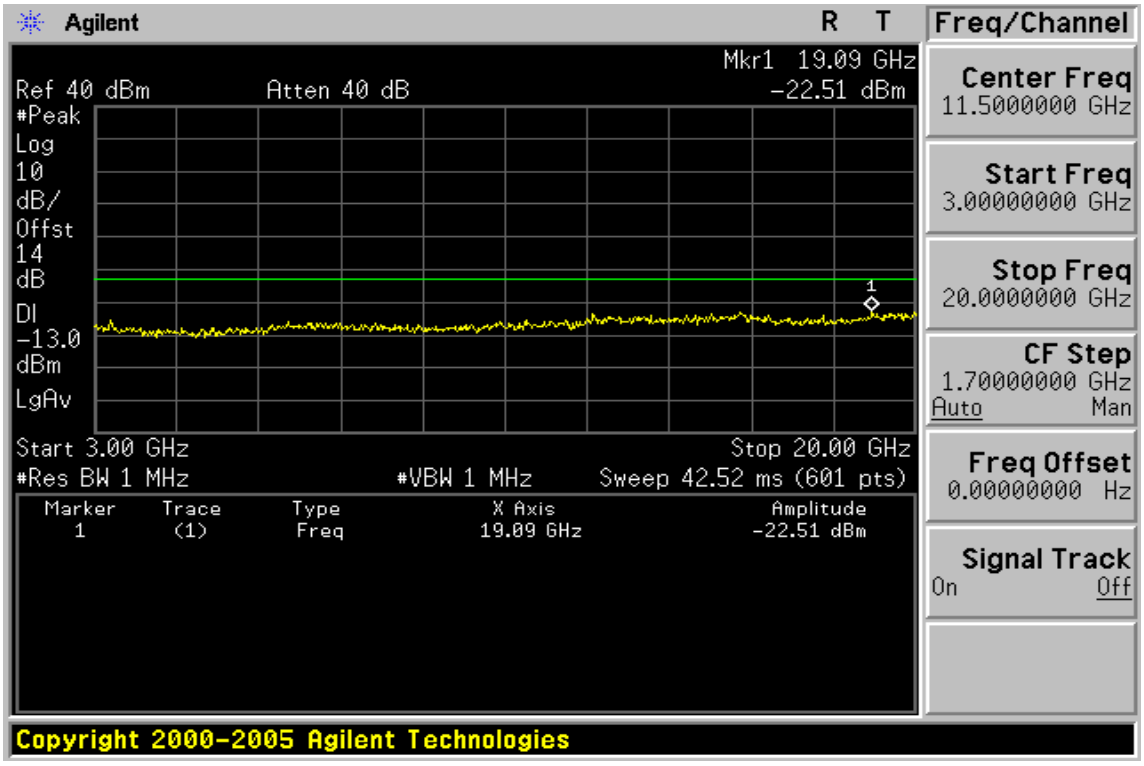
Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest





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Out of Band emission at antenna terminals – GSM 1900

Fundamental Frequency :1850.2 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---
19720.00	S	-22.28	-13.00	9.28

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19860.00	S	-22.08	-13.00	9.08

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19090.00	S	-22.51	-13.00	9.51
19098.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-9: Band edge emission at antenna terminals – GSM 1900 Channel Lowest

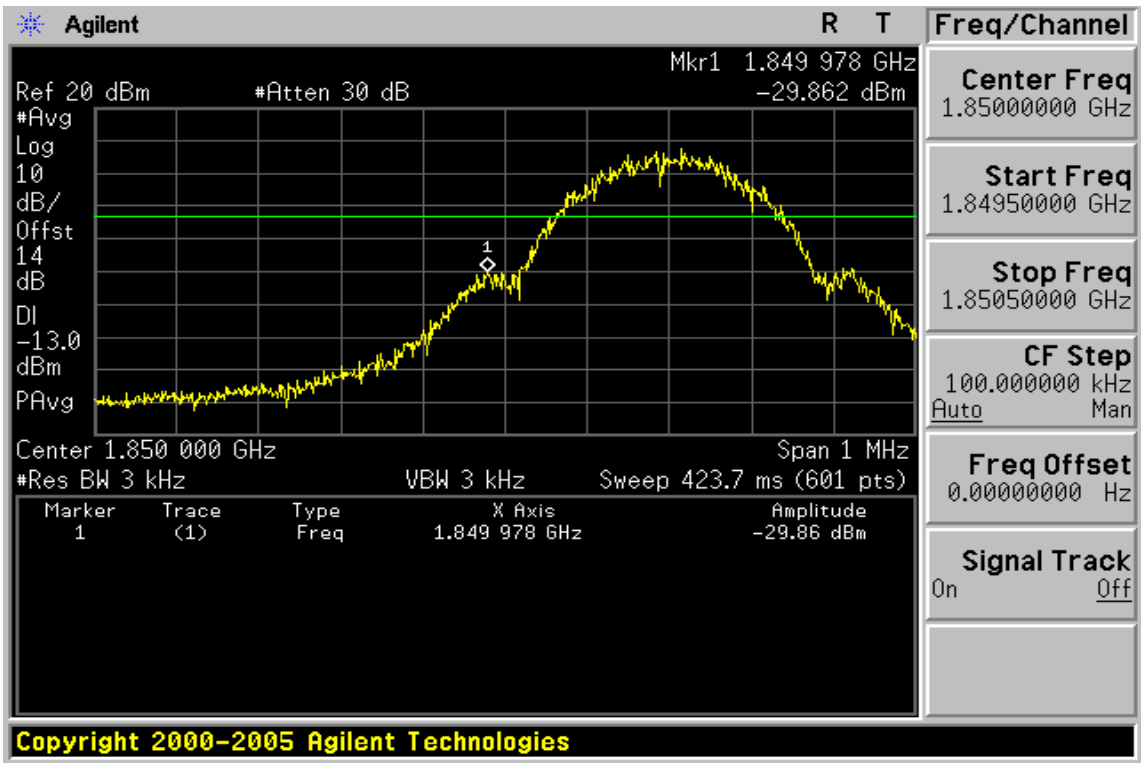
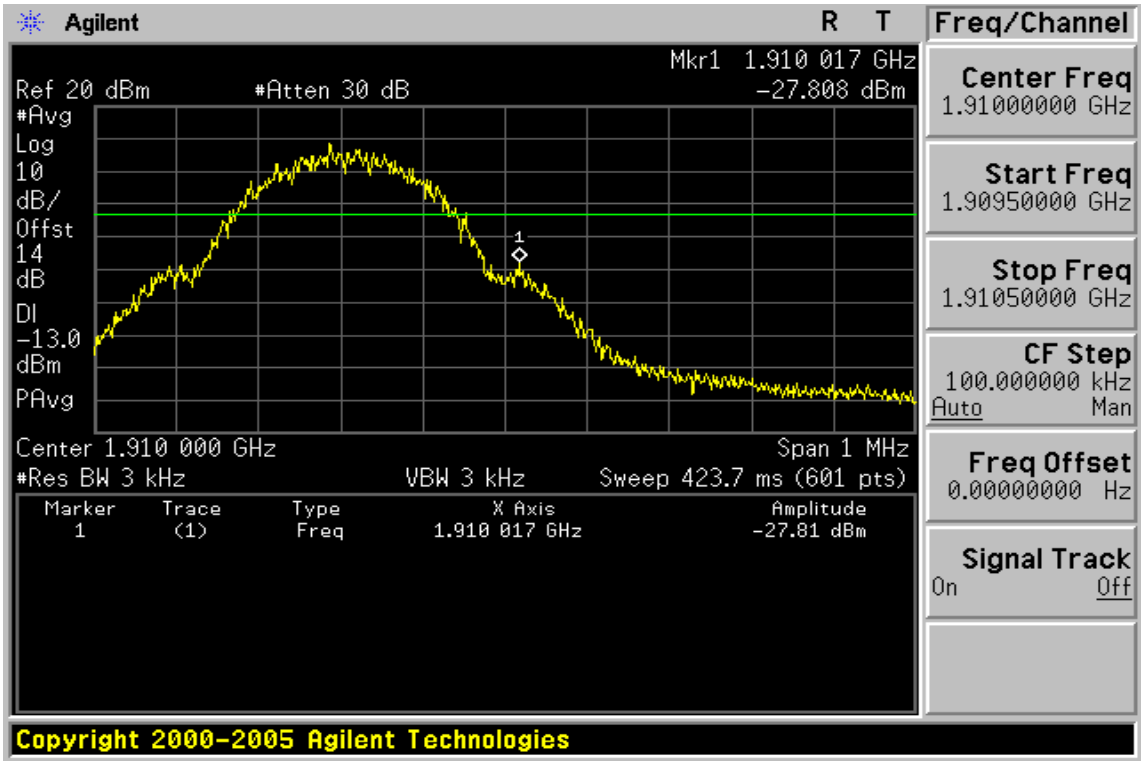


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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Band edge emission at antenna terminals – GSM 1900 Low & High

Test Mode GSM 1900 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.978	-29.86	-13.00	16.86
1910.017	-27.81	-13.00	14.81

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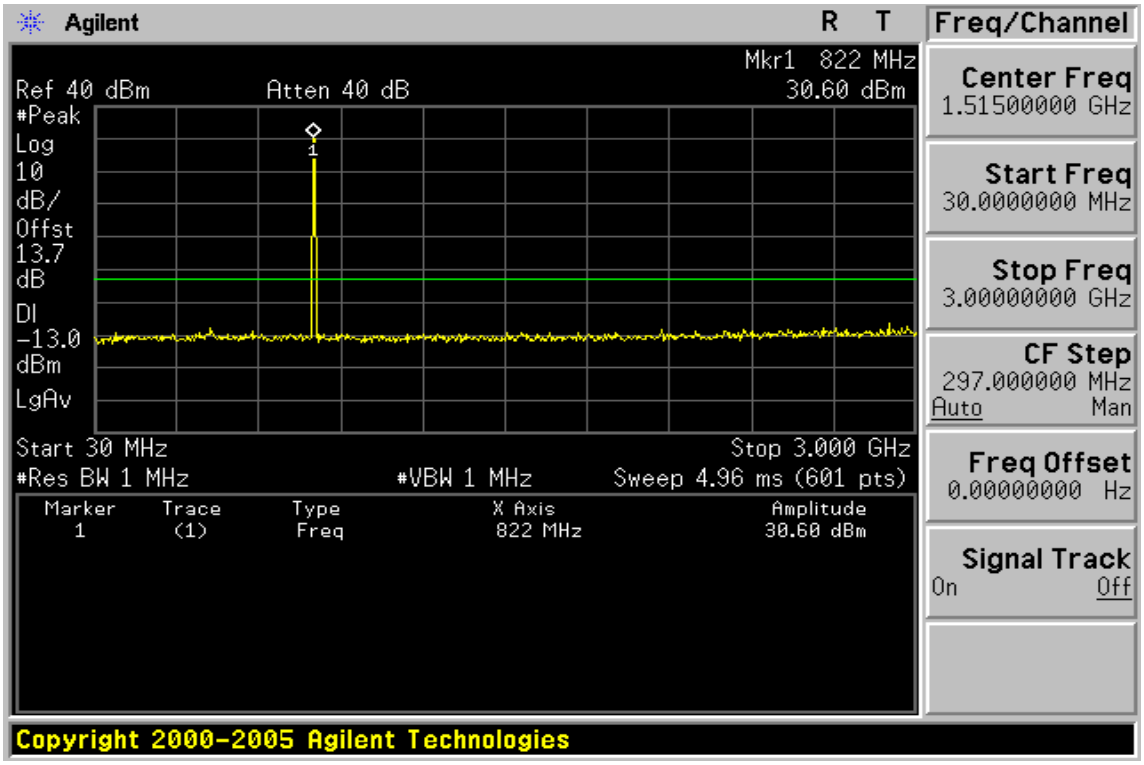
Figure 9-11: Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



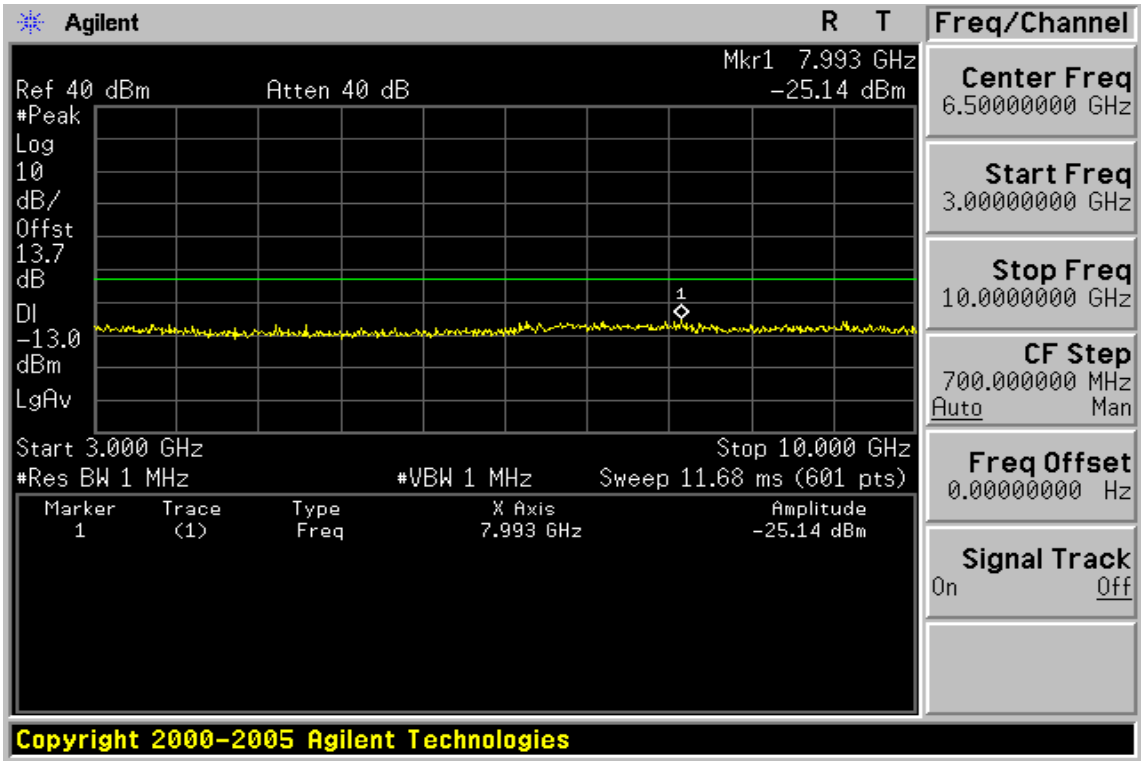


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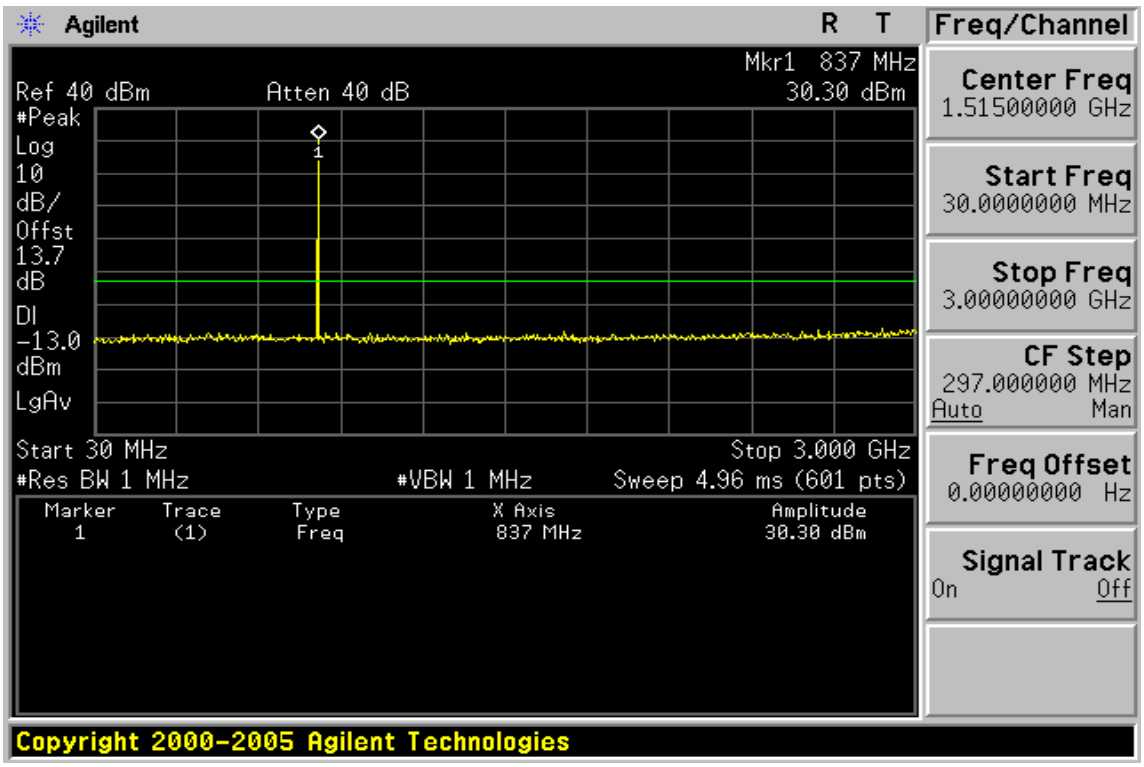
Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



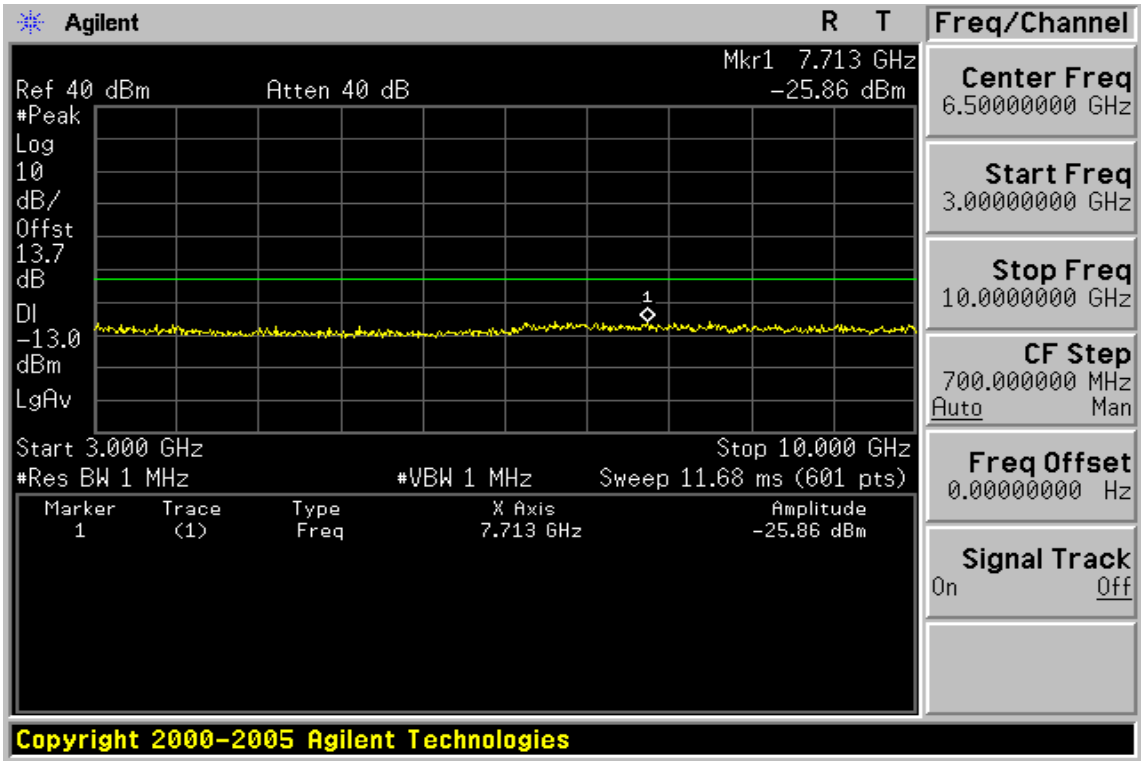


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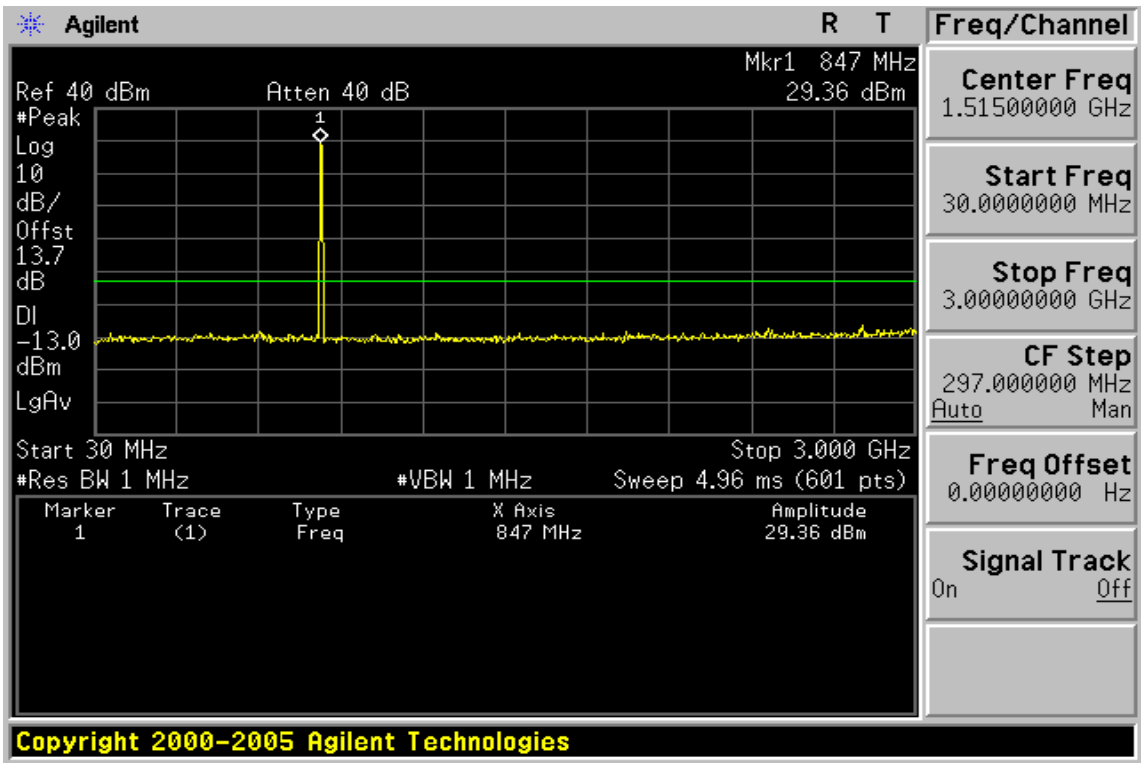
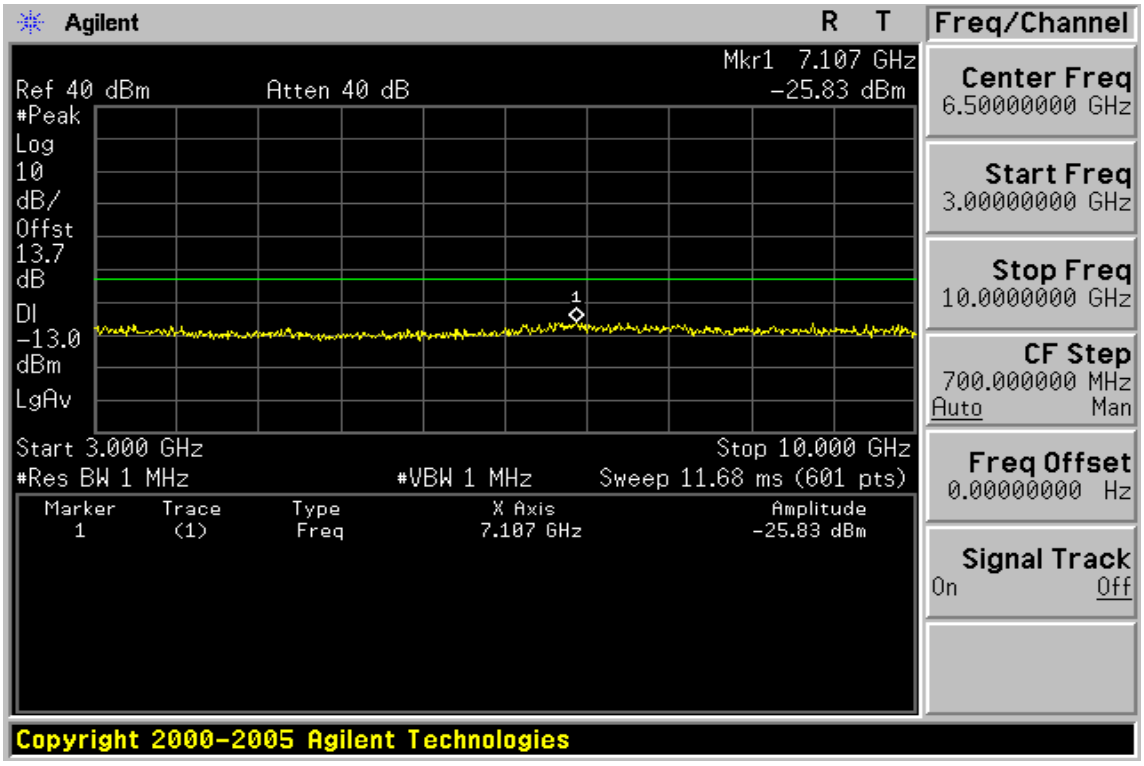
Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest





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Out of Band emission at antenna terminals – GPRS 850

Fundamental Frequency :824.2 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7417.80	H	---	-13.00	---
7993.00	S	-25.14	-13.00	12.14
8242.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7529.40	H	---	-13.00	---
7713.00	S	-25.86	-13.00	12.86
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7107.00	S	-25.83	-13.00	12.83
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

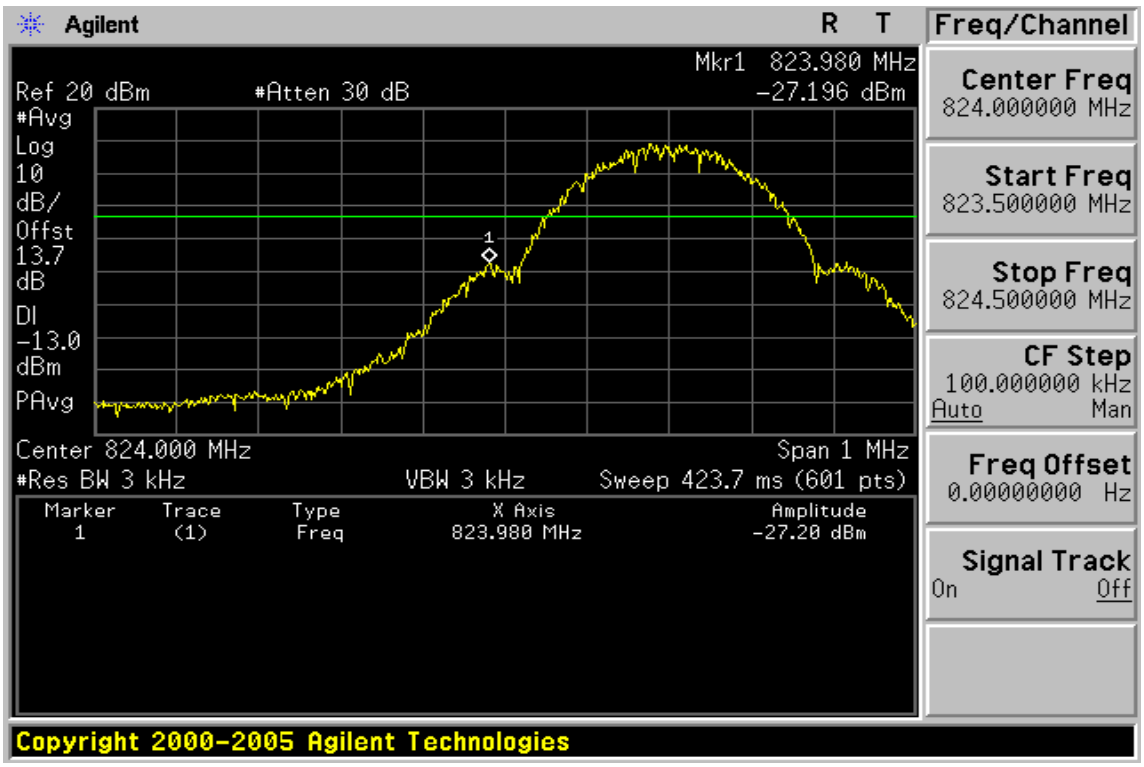
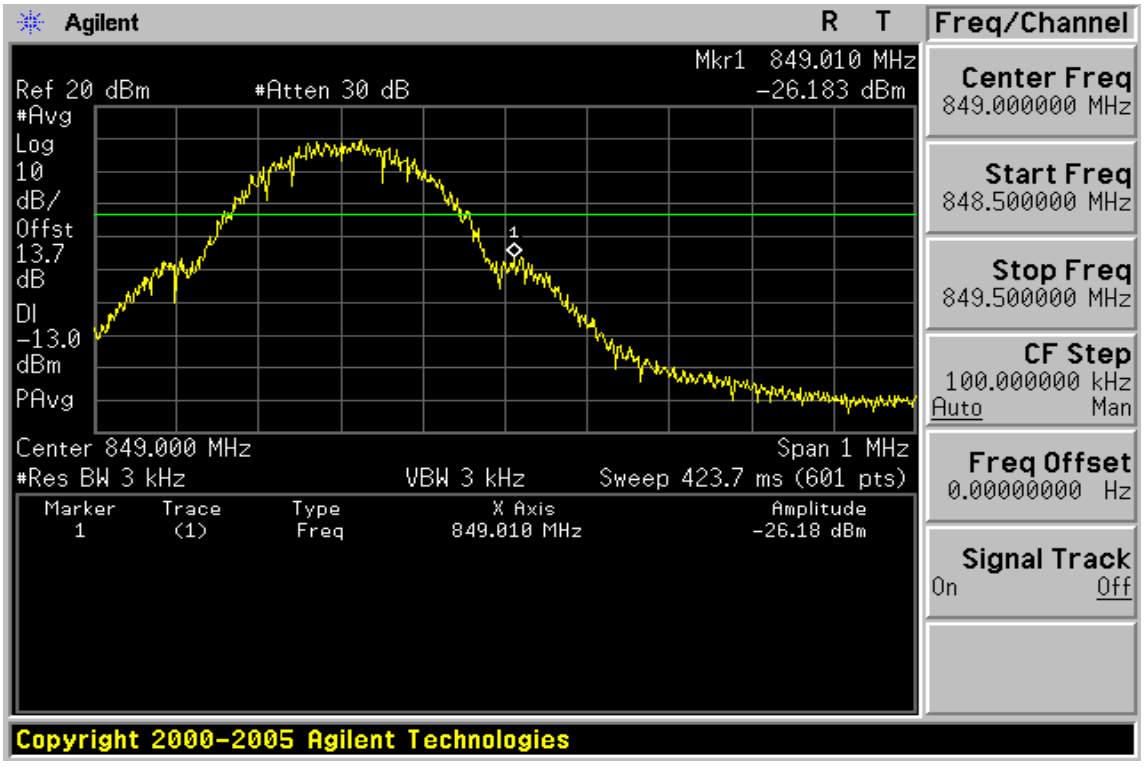


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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Band edge emission at antenna terminals – GPRS 850 Low & High

Test Mode GPRS 850 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.980	-27.20	-13.00	14.20
849.010	-26.18	-13.00	13.18

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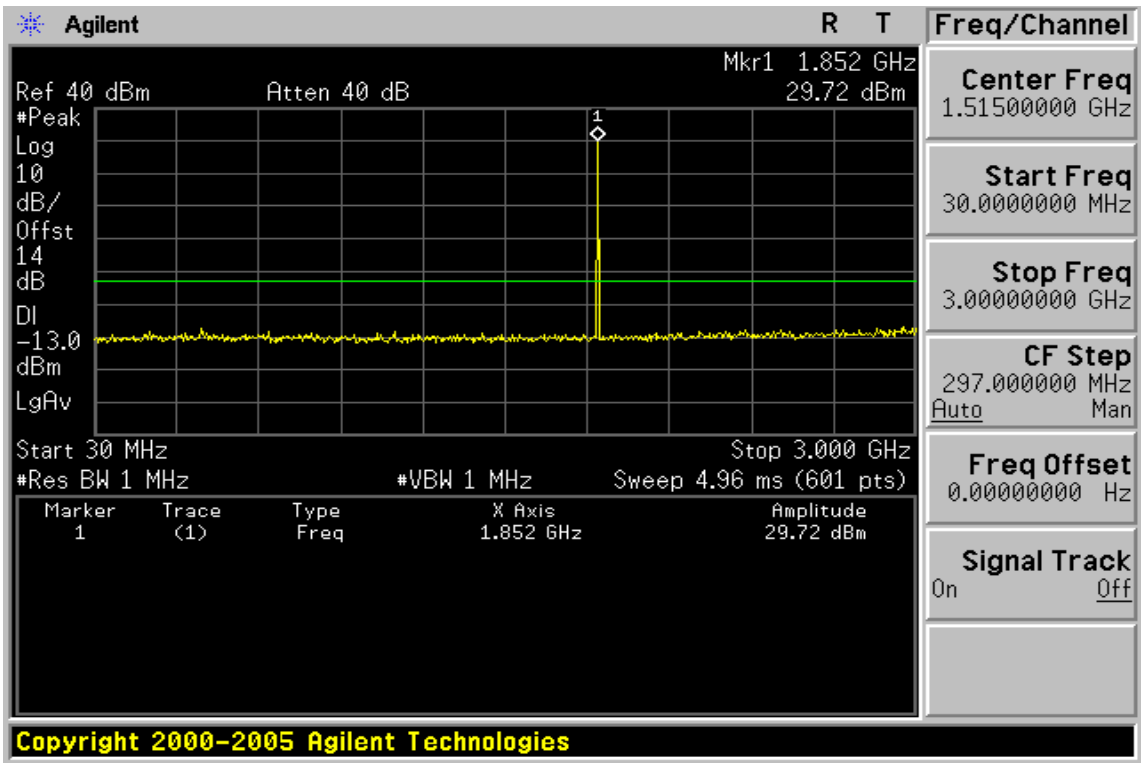
Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



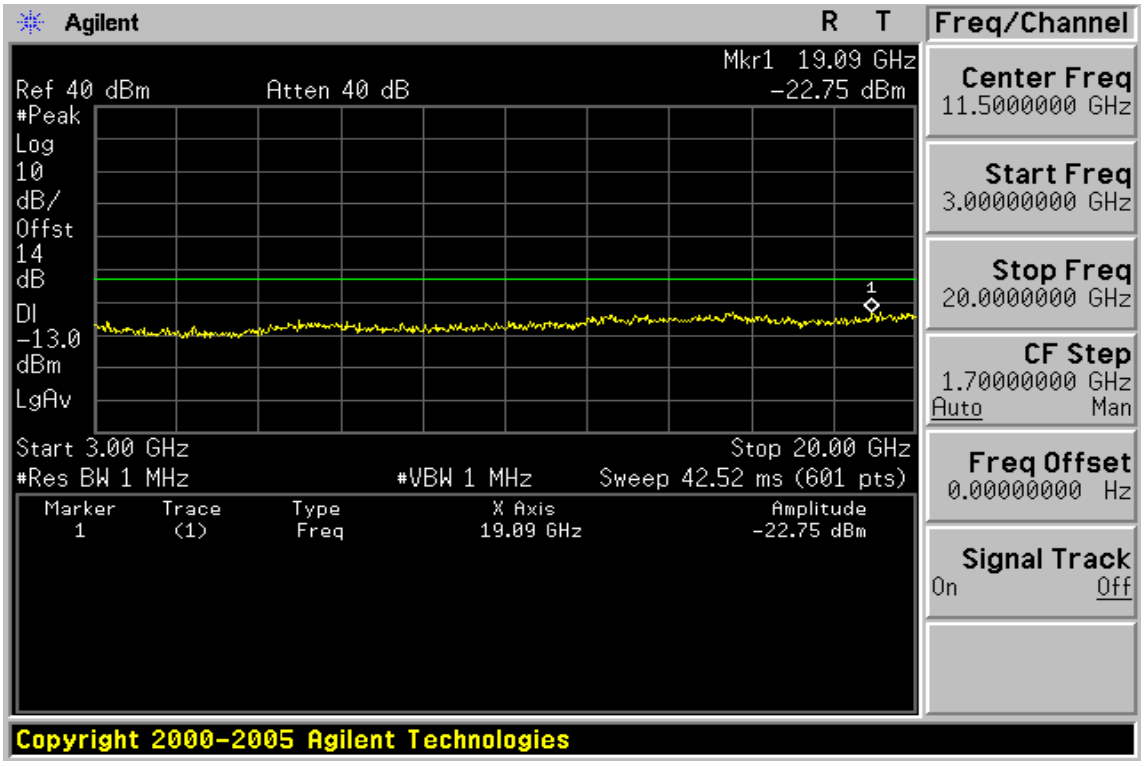


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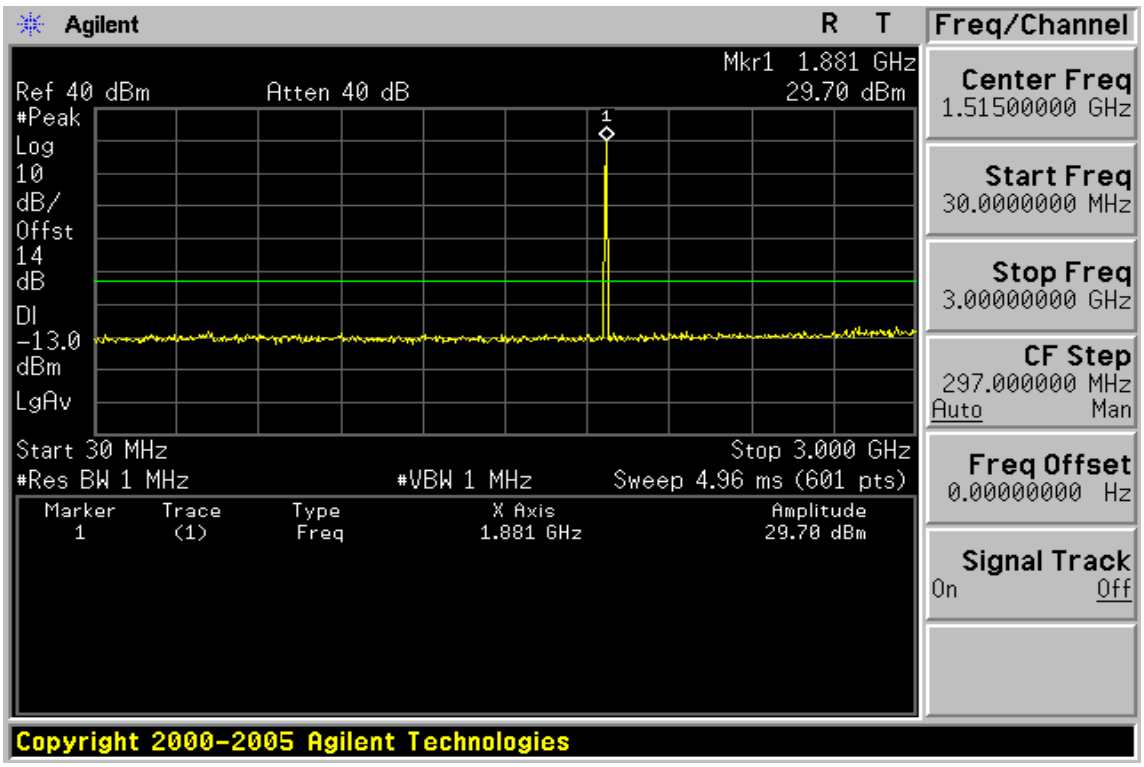
Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



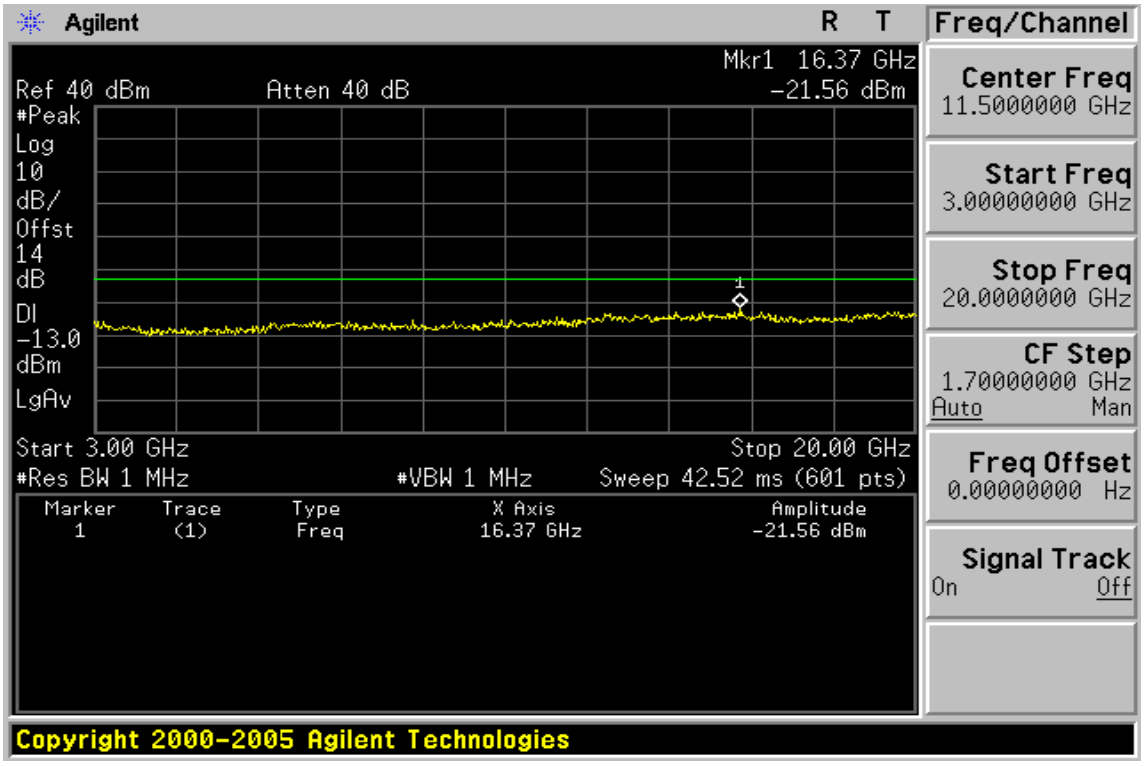


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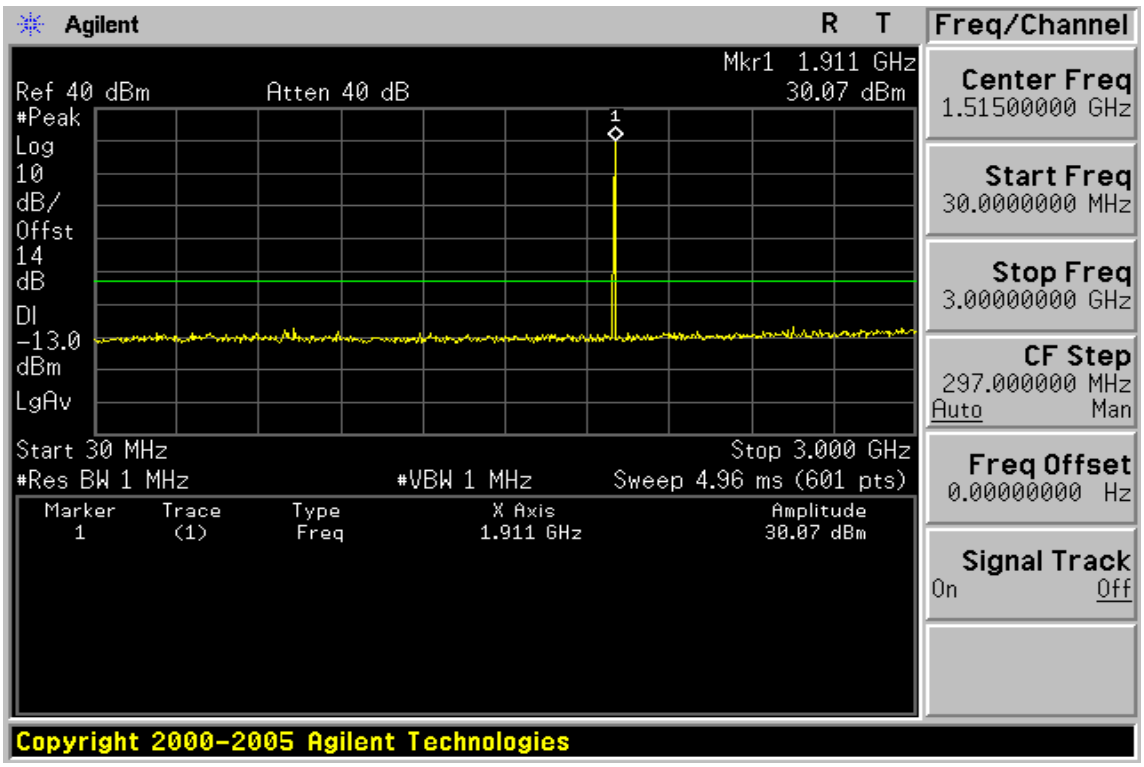
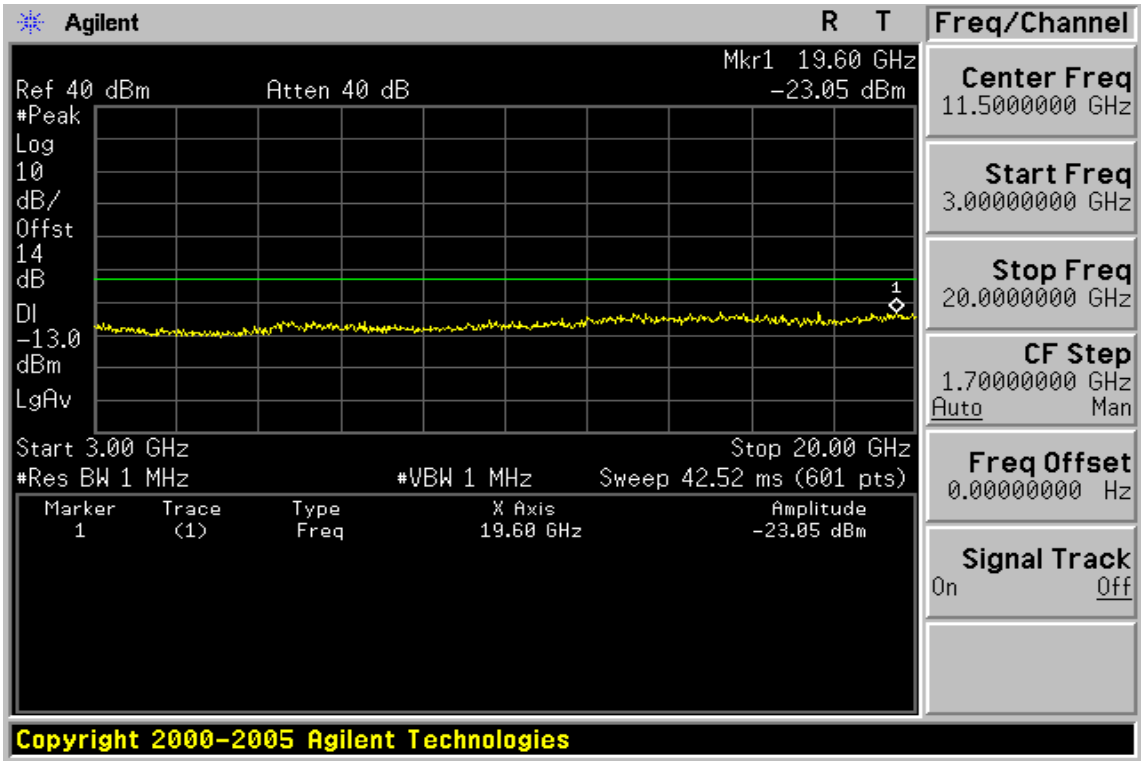
Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest





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Out of Band emission at antenna terminals – GPRS 1900

Fundamental Frequency :1850.2 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---
19090.00	S	-22.75	-13.00	9.75

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16370.00	S	-21.56	-13.00	8.56
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---
19600.00	S	-23.05	-13.00	10.05

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-19: Band edge emission at antenna terminals – GPRS 1900 Channel Lowest

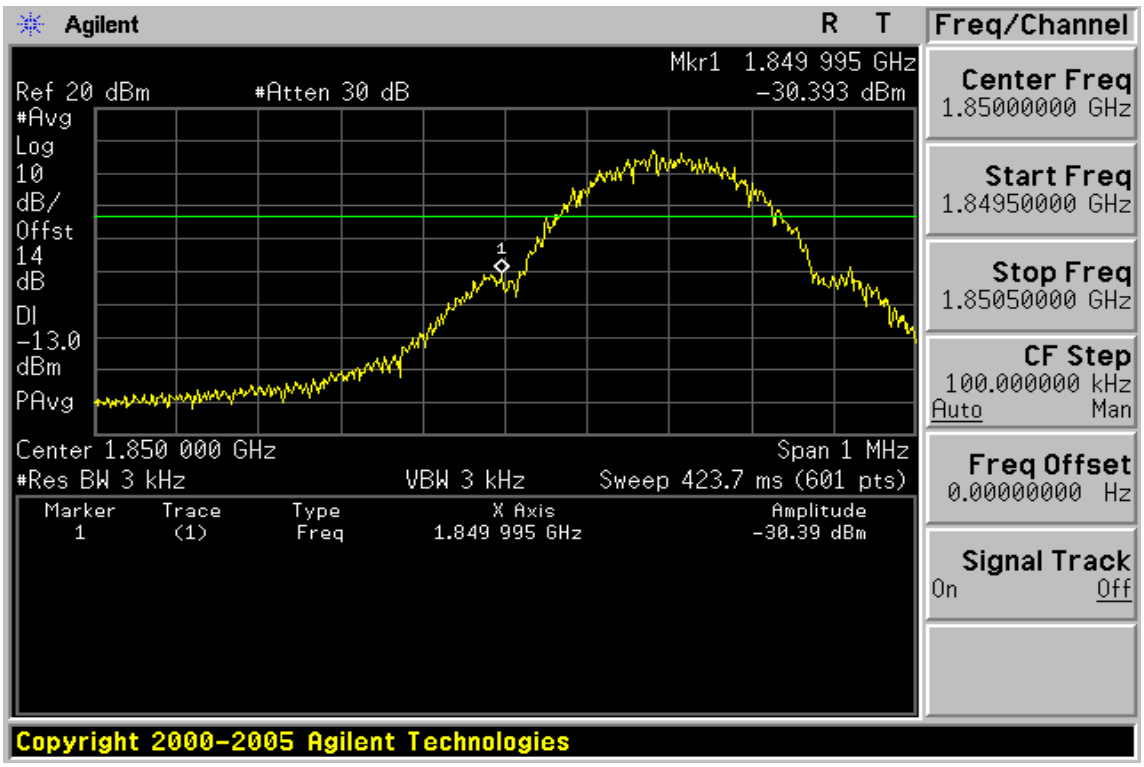
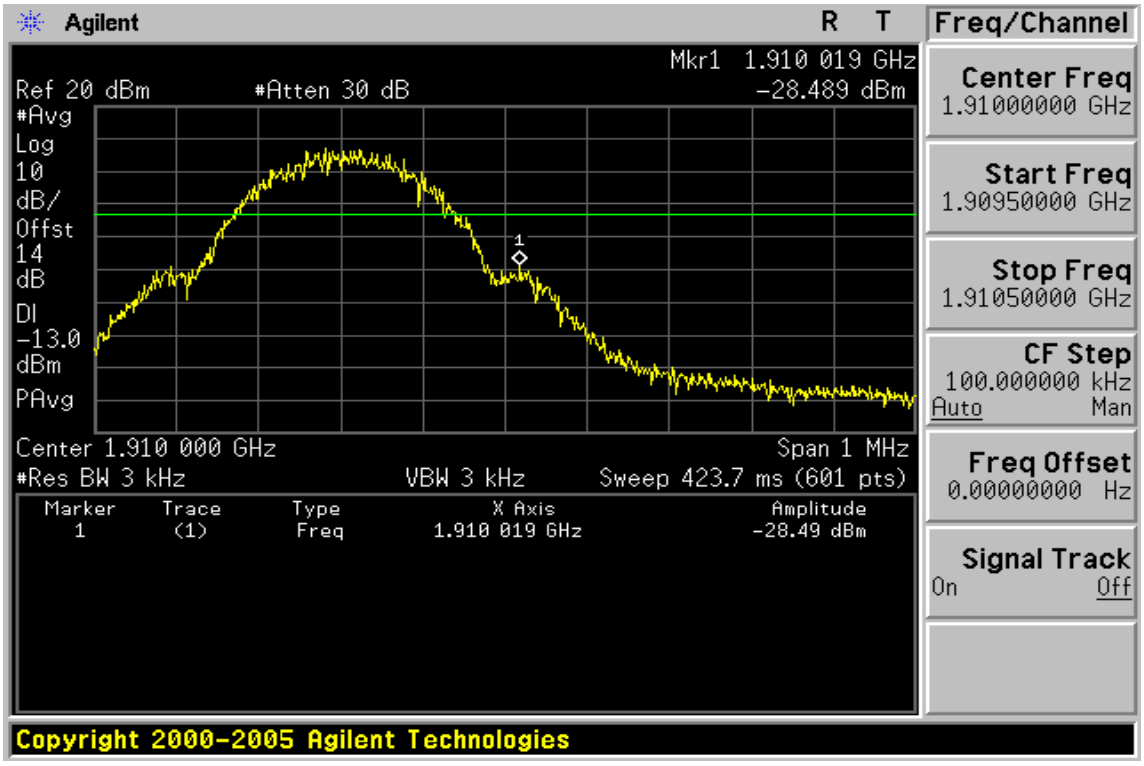


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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Band edge emission at antenna terminals – GPRS 1900 Low & High

Test Mode GPRS 1900 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.995	-30.39	-13.00	17.39
1910.019	-28.49	-13.00	15.49

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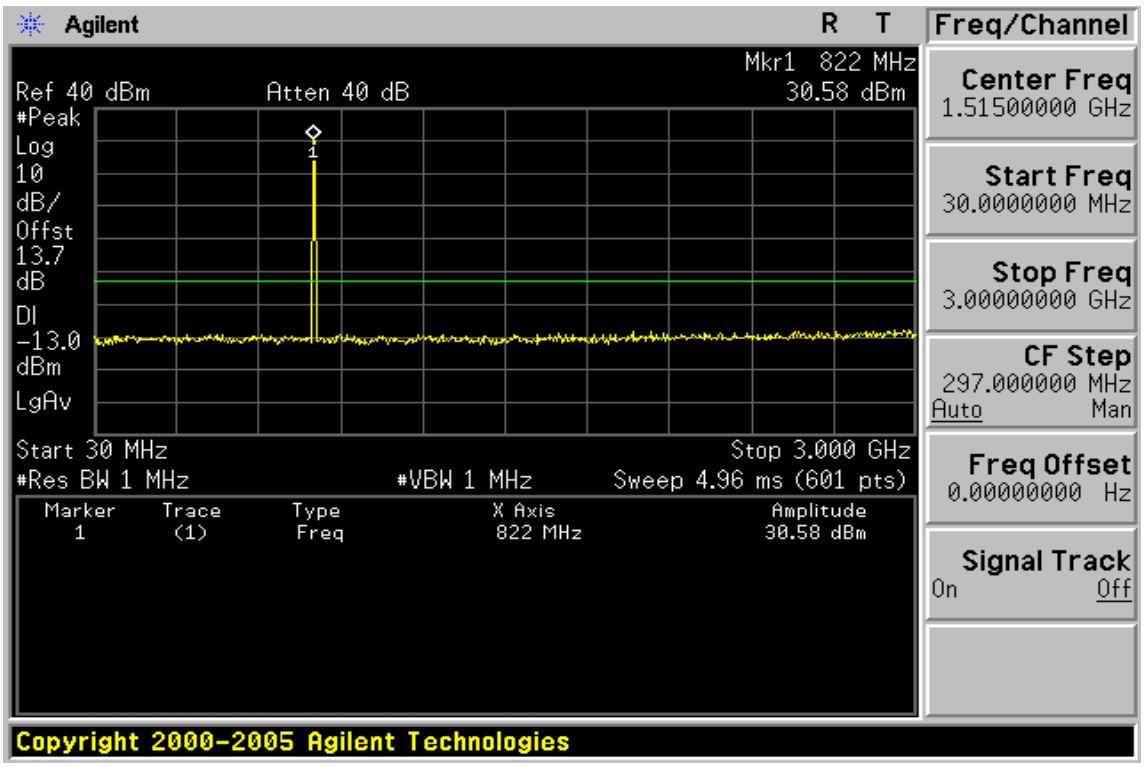
Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



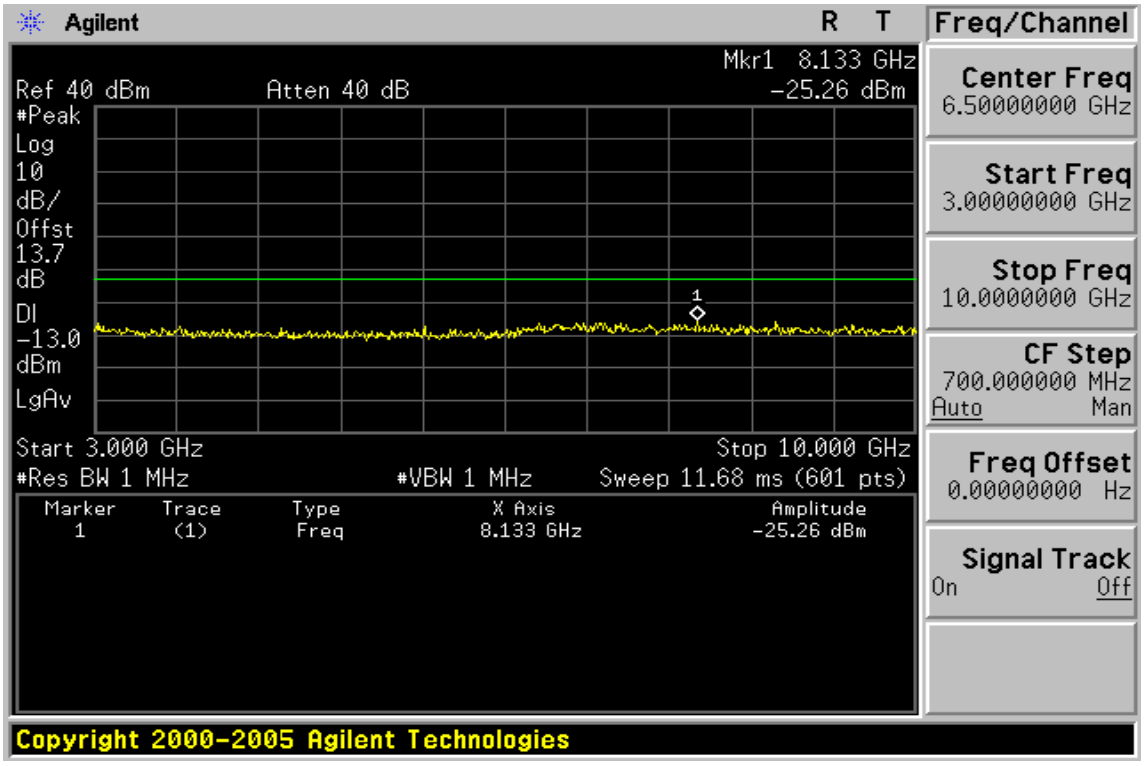


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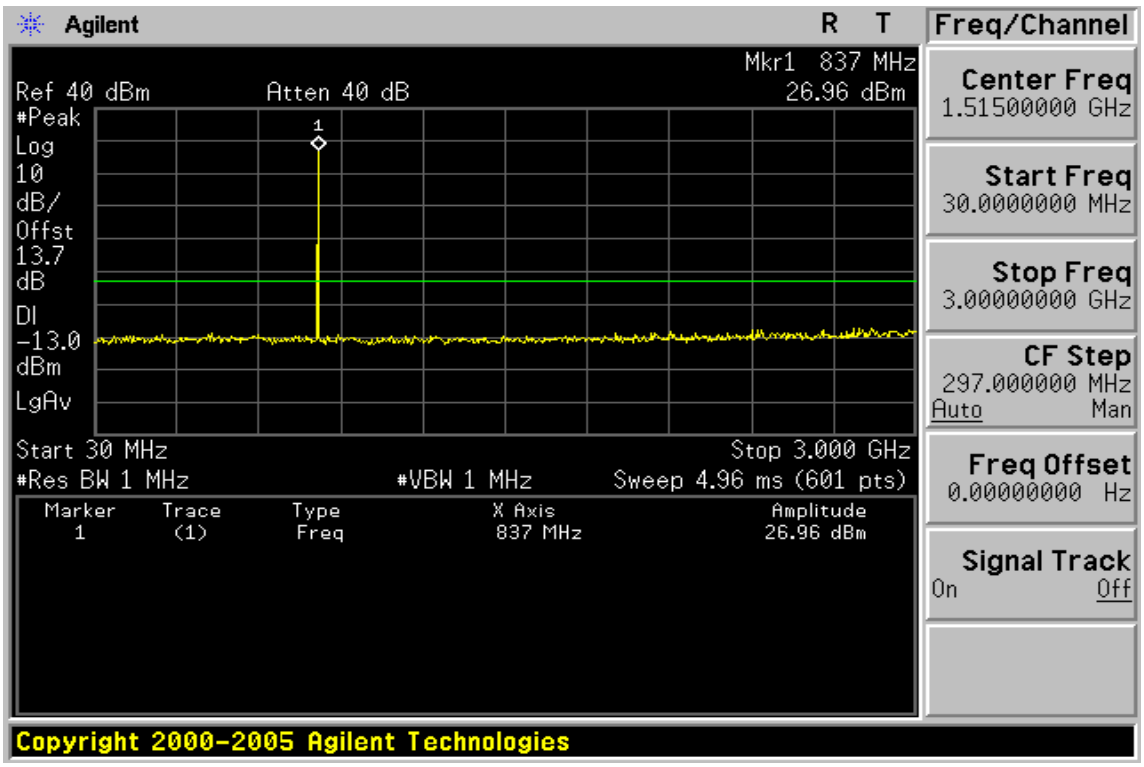
Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



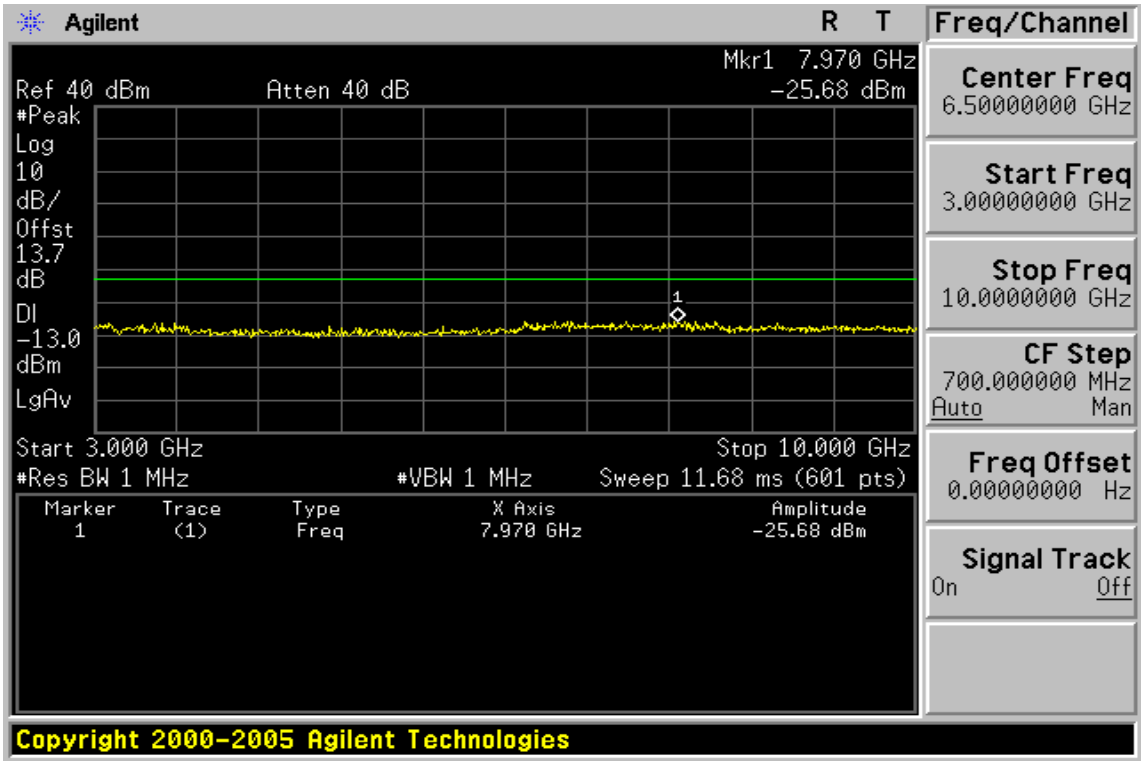


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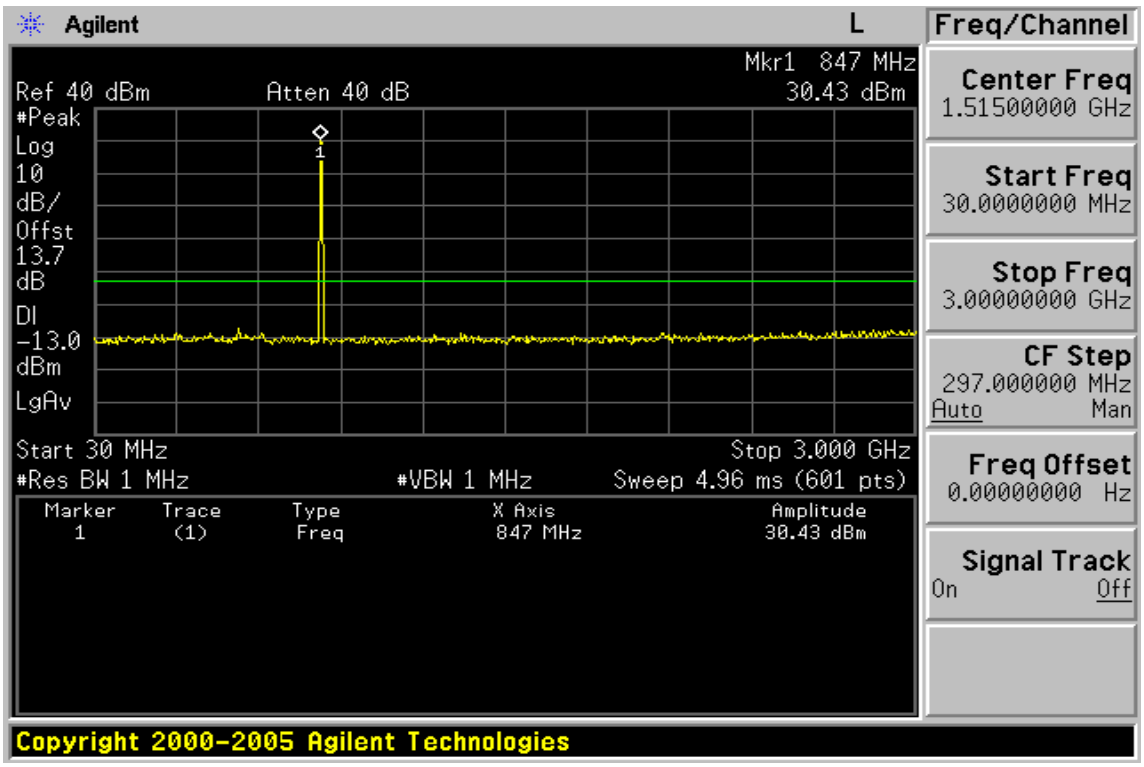
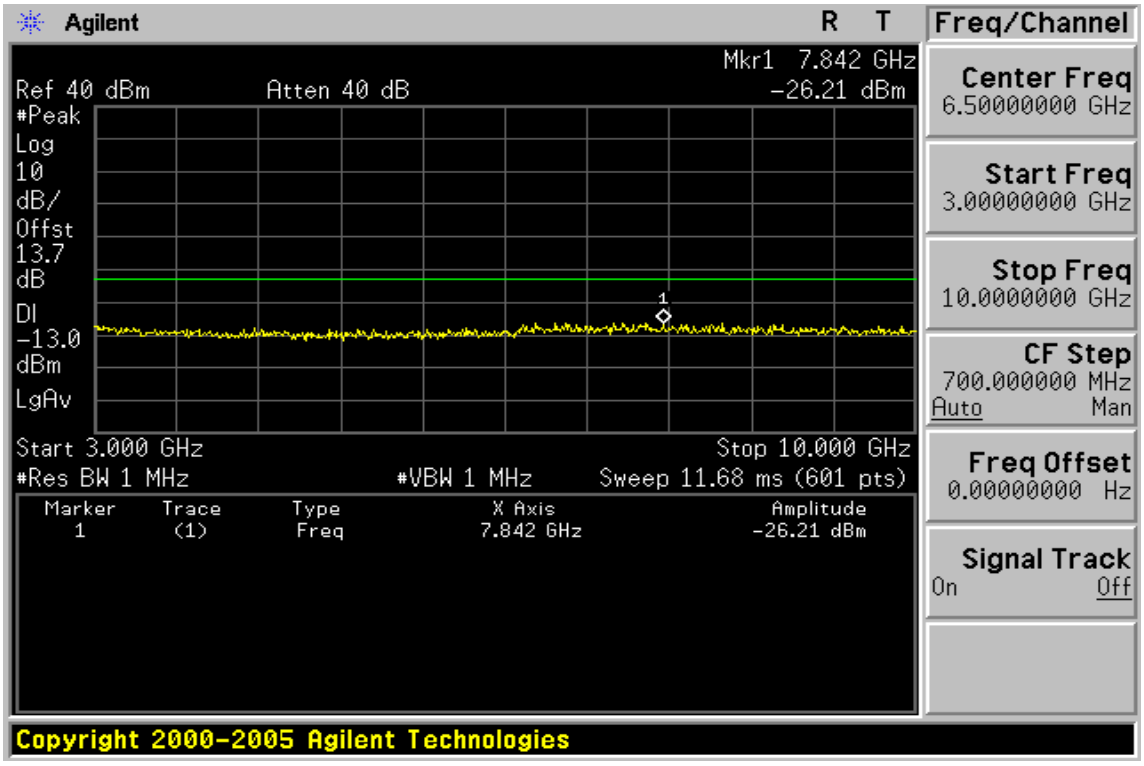
Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest





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Out of Band emission at antenna terminals – EDGE 850

Fundamental Frequency :824.2 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7417.80	H	---	-13.00	---
8133.00	S	-25.26	-13.00	12.26
8242.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
6692.80	H	---	-13.00	---
7529.40	H	---	-13.00	---
7970.00	S	-25.68	-13.00	12.68
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
7842.00	S	-26.21	-13.00	13.21
8488.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

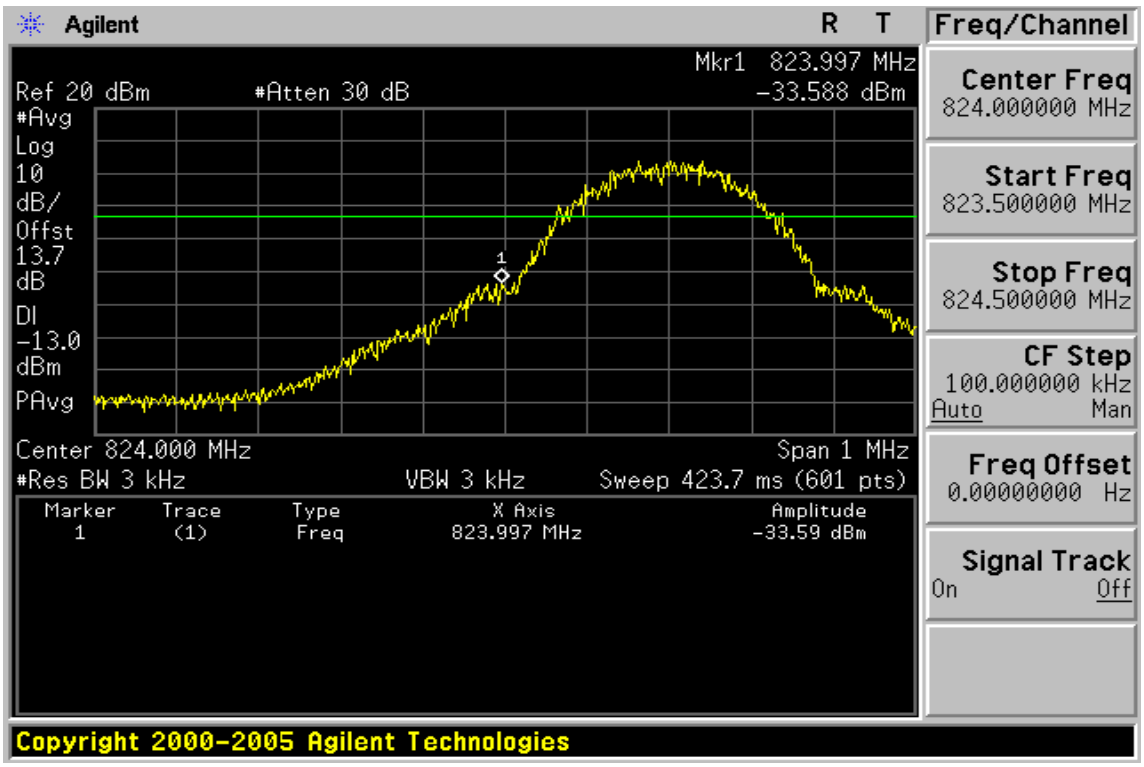
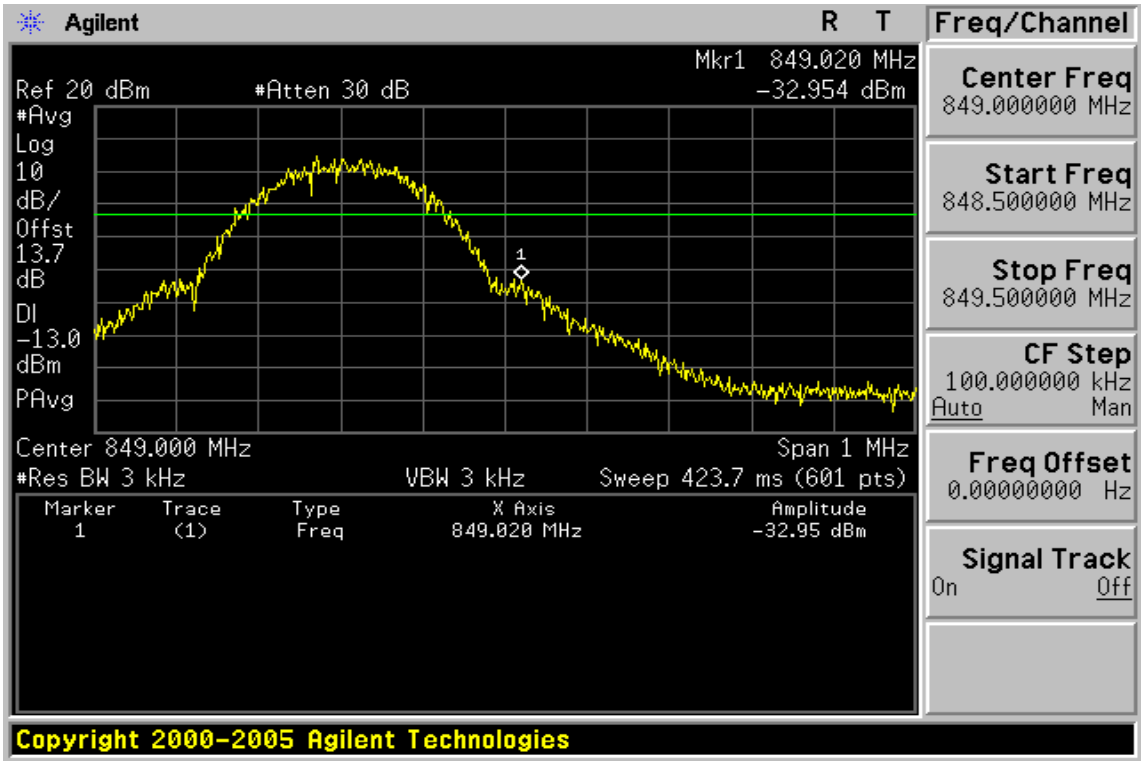


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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Band edge emission at antenna terminals – EDGE 850 Low & High

Test Mode EDGE 850 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-33.59	-13.00	20.59
849.02	-32.95	-13.00	19.95

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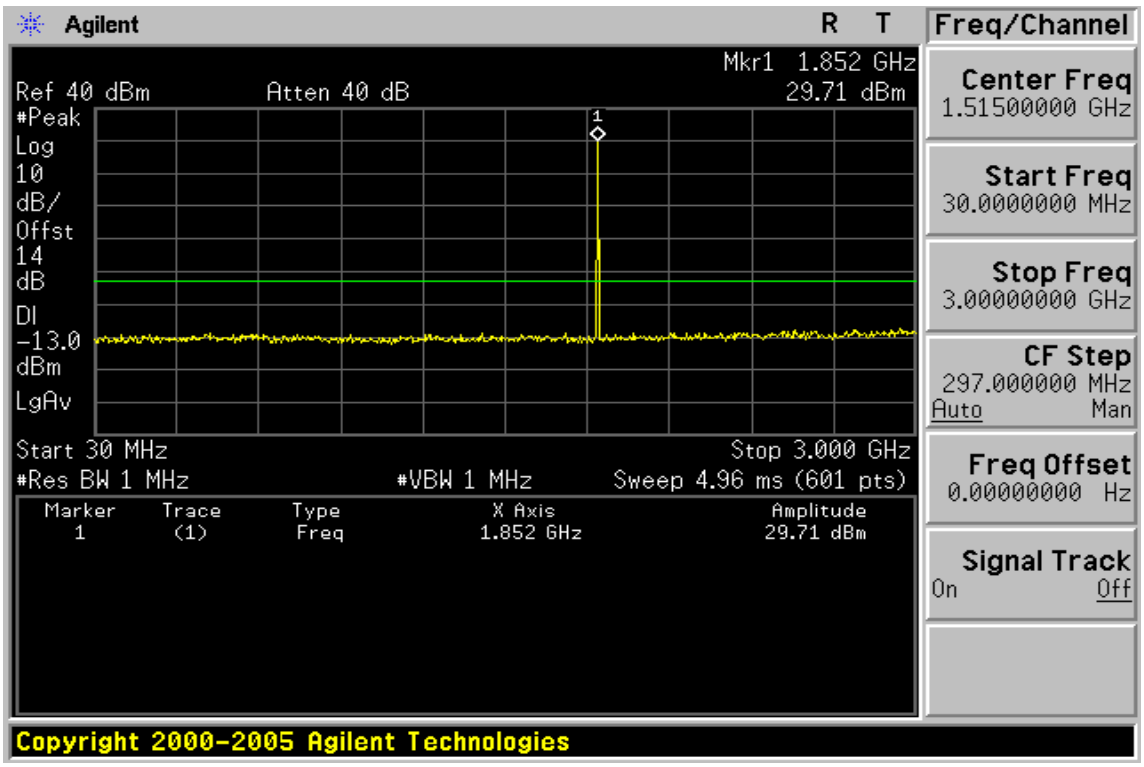
Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



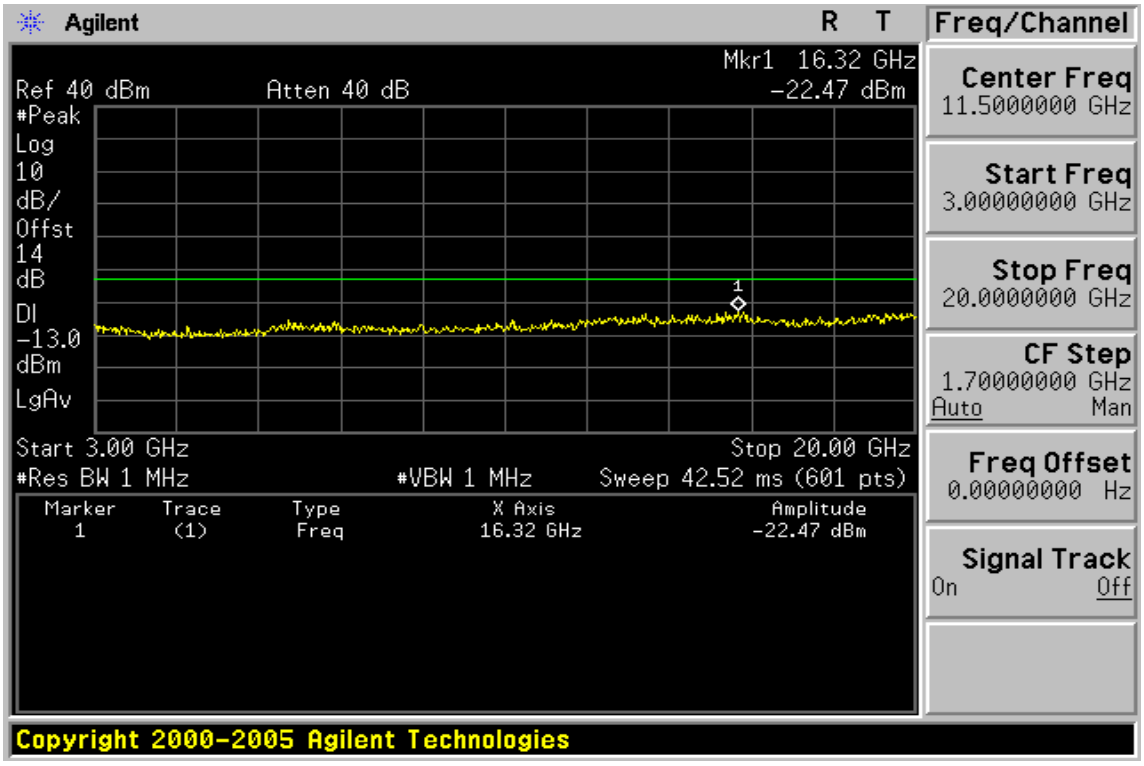


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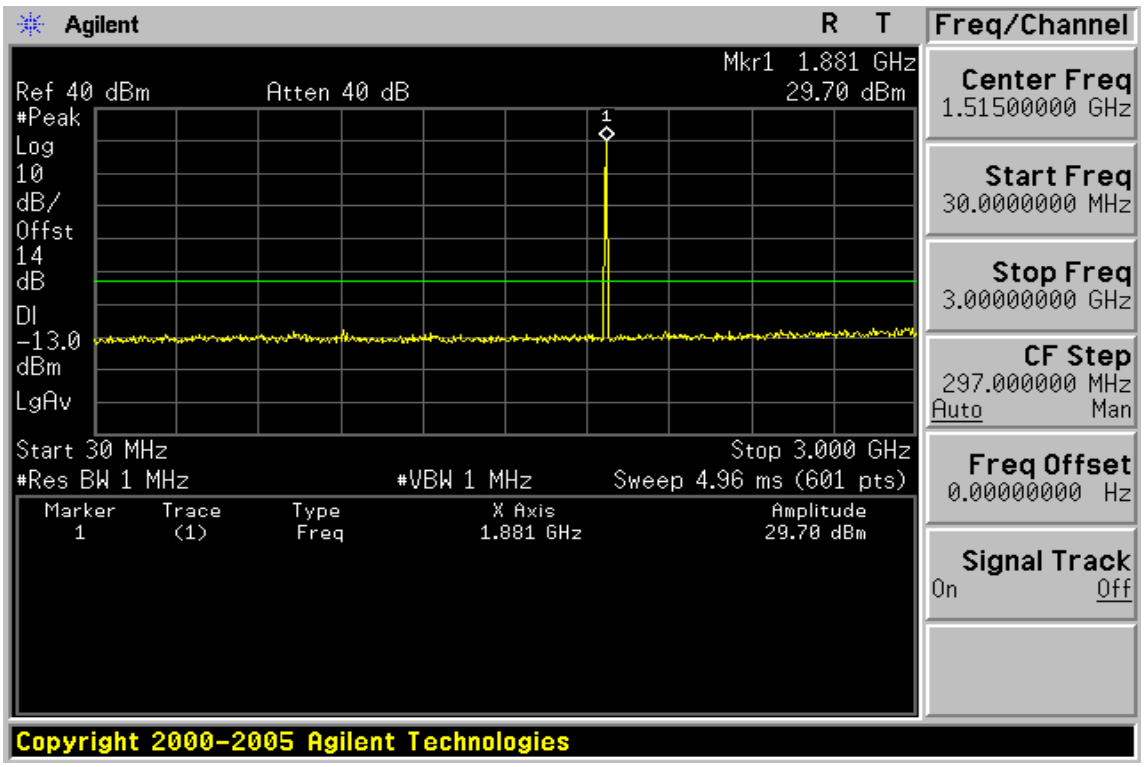
Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



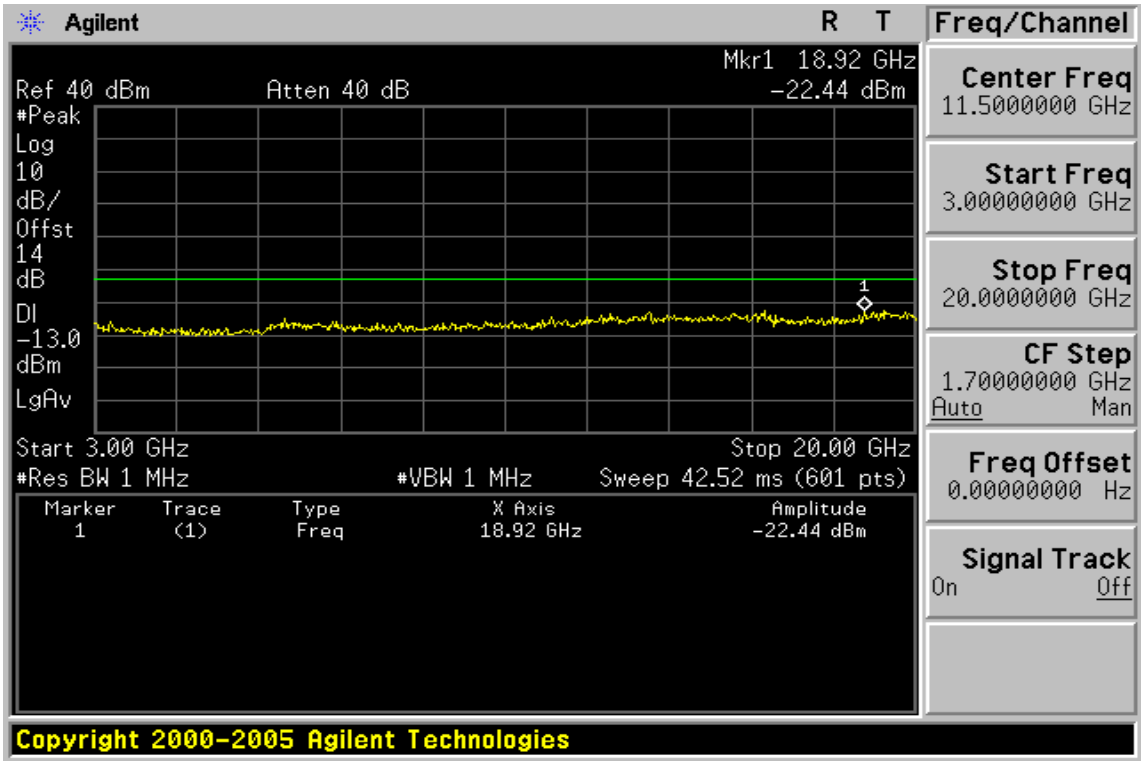


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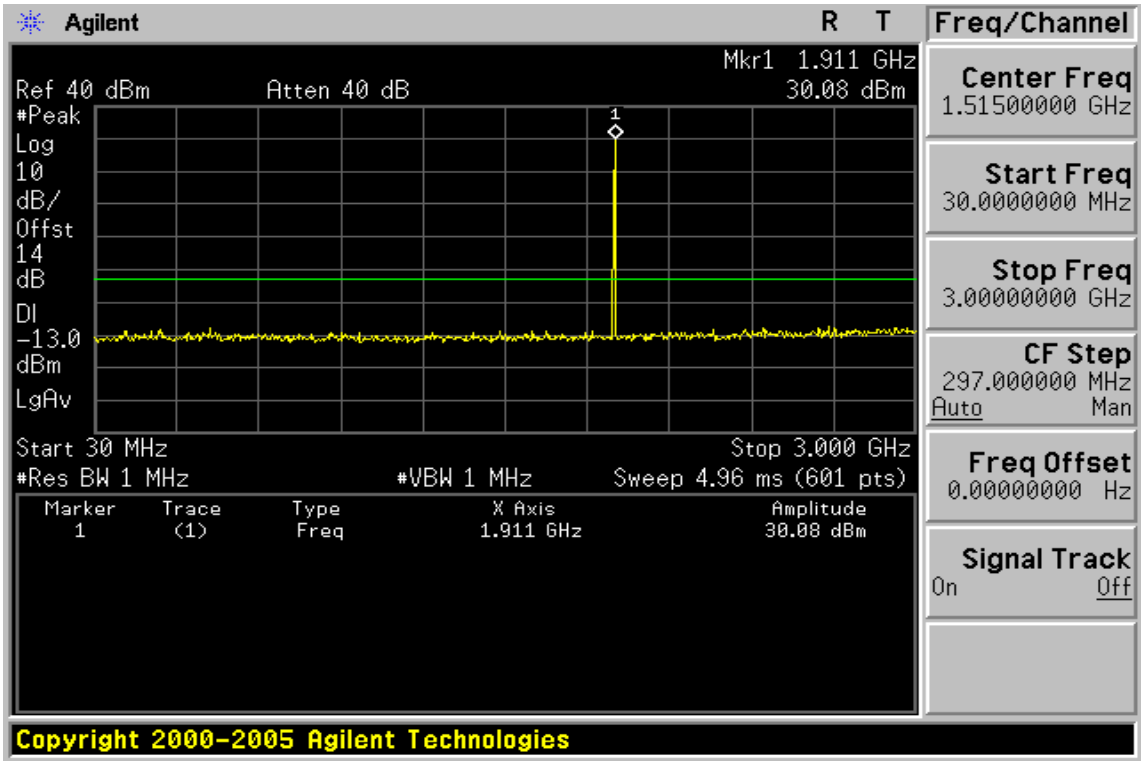
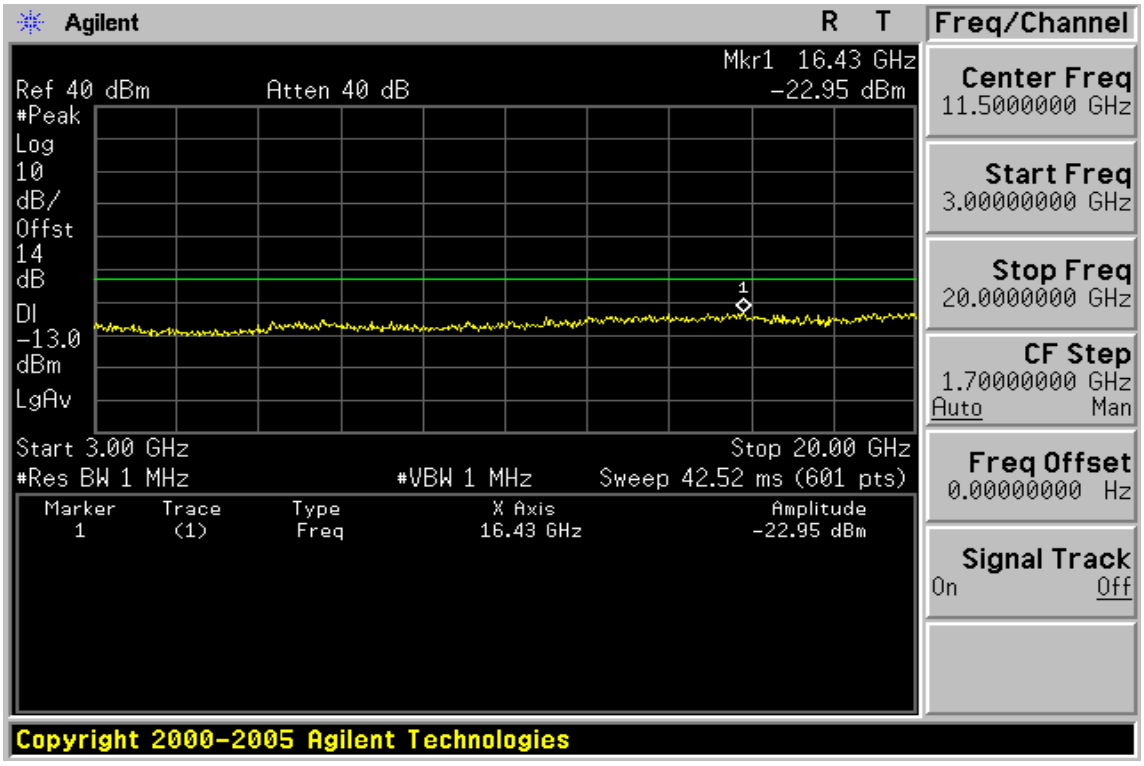
Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest





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Out of Band emission at antenna terminals – EDGE 1900

Fundamental Frequency :1850.2 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14801.60	H	---	-13.00	---
16320.00	S	-22.47	-13.00	9.47
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
18920.00	S	-22.44	-13.00	9.44

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
15278.40	H	---	-13.00	---
16430.00	S	-22.95	-13.00	9.95
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-29: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

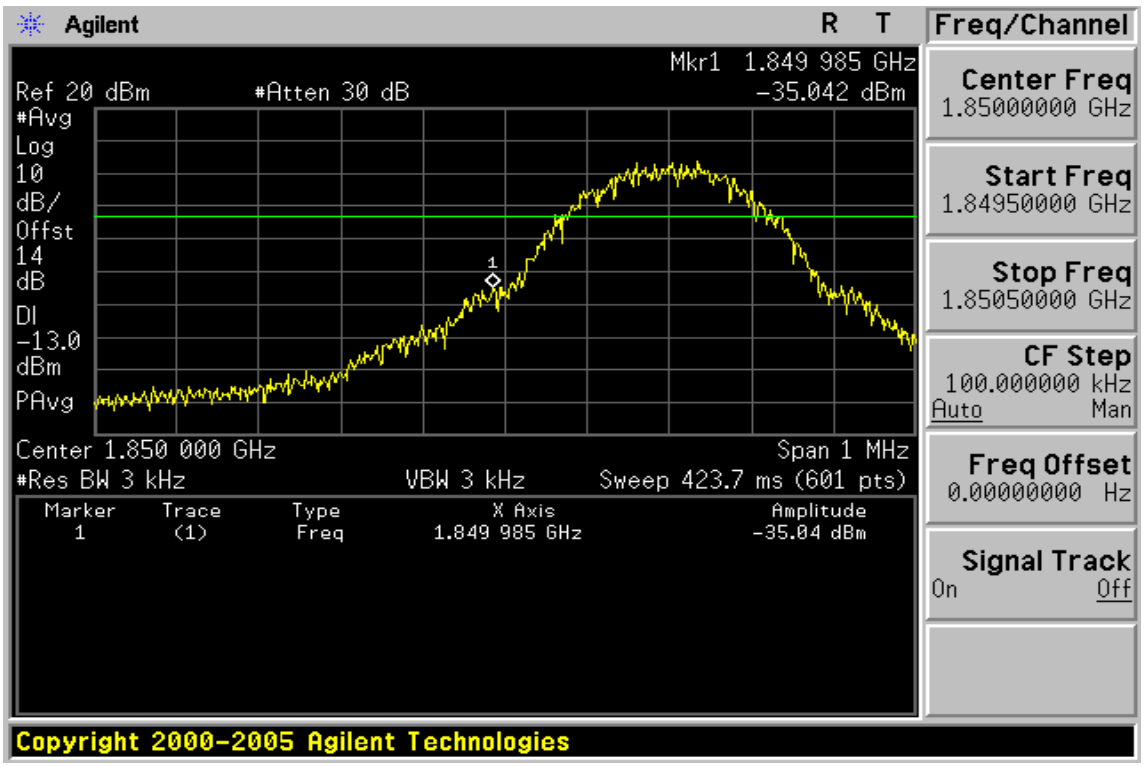
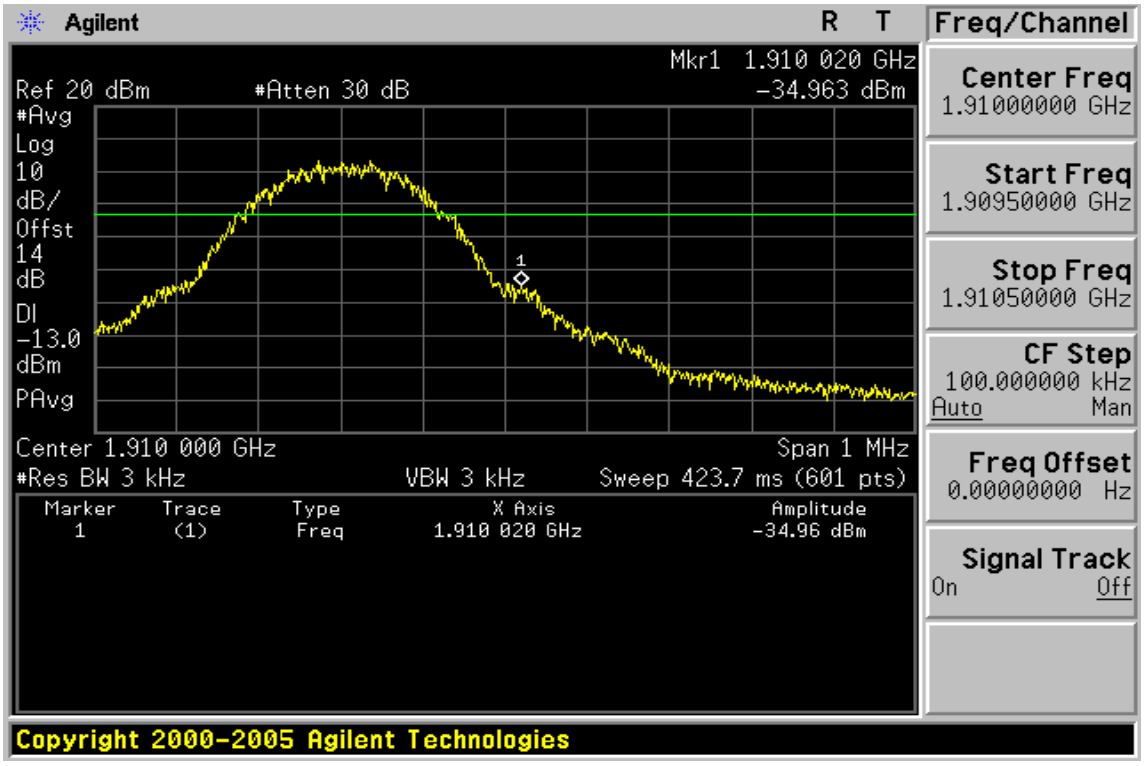


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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Band edge emission at antenna terminals – EDGE 1900 Low & High

Test Mode EDGE 1900: Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.985	-35.04	-13.00	22.04
1910.020	-34.96	-13.00	21.96

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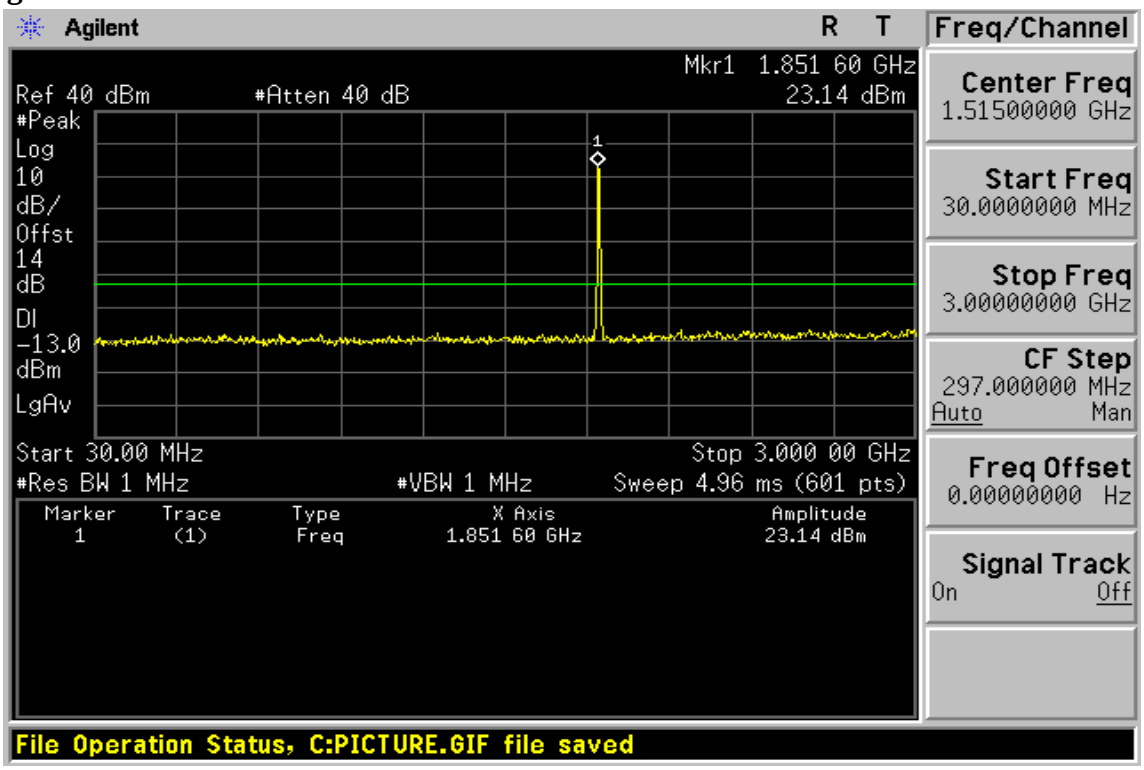
Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



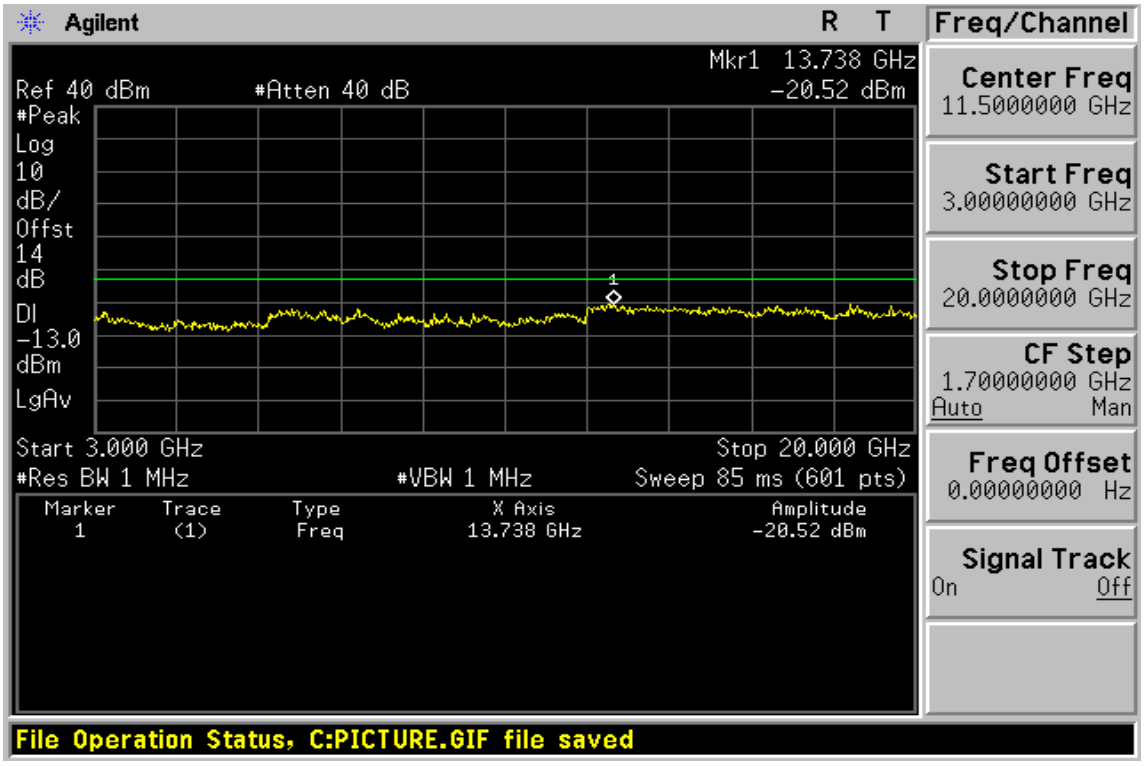


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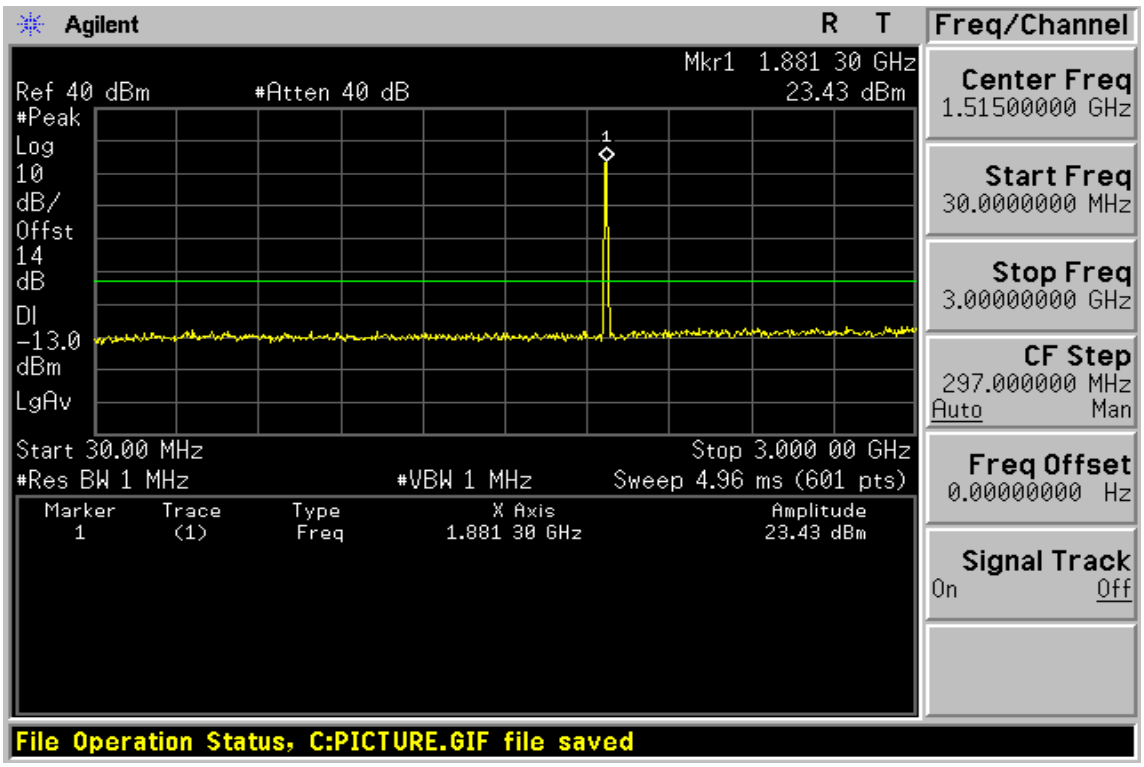
Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid



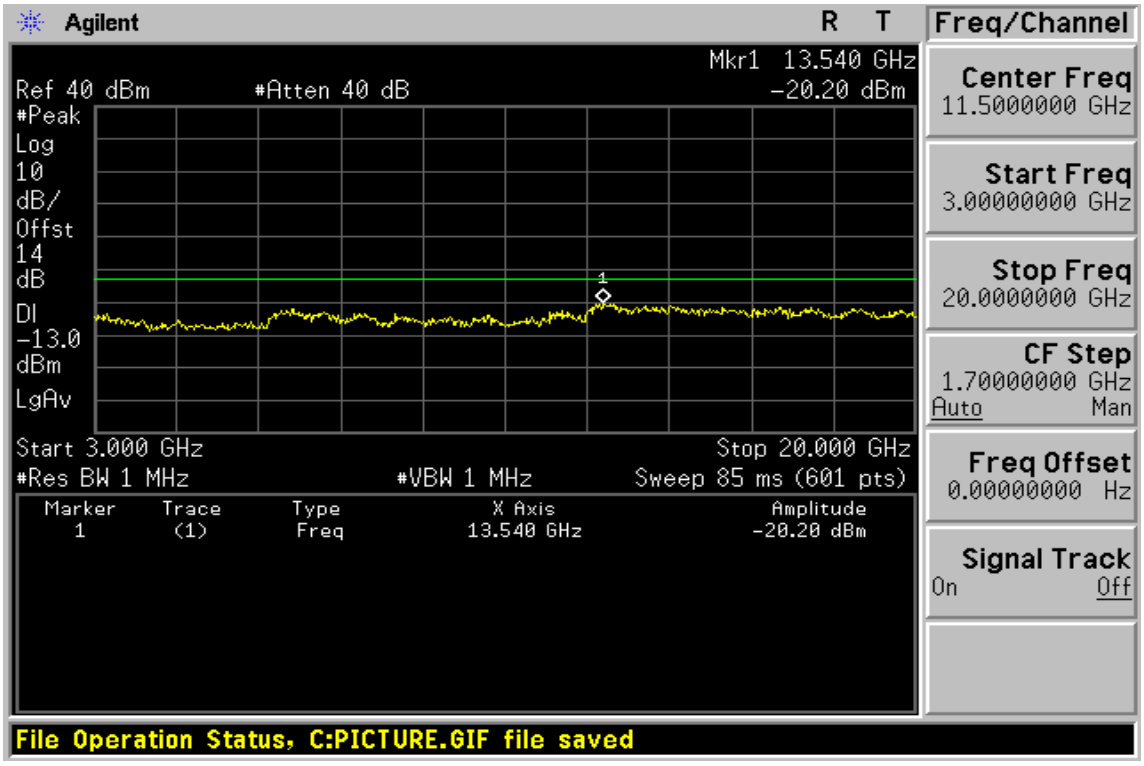


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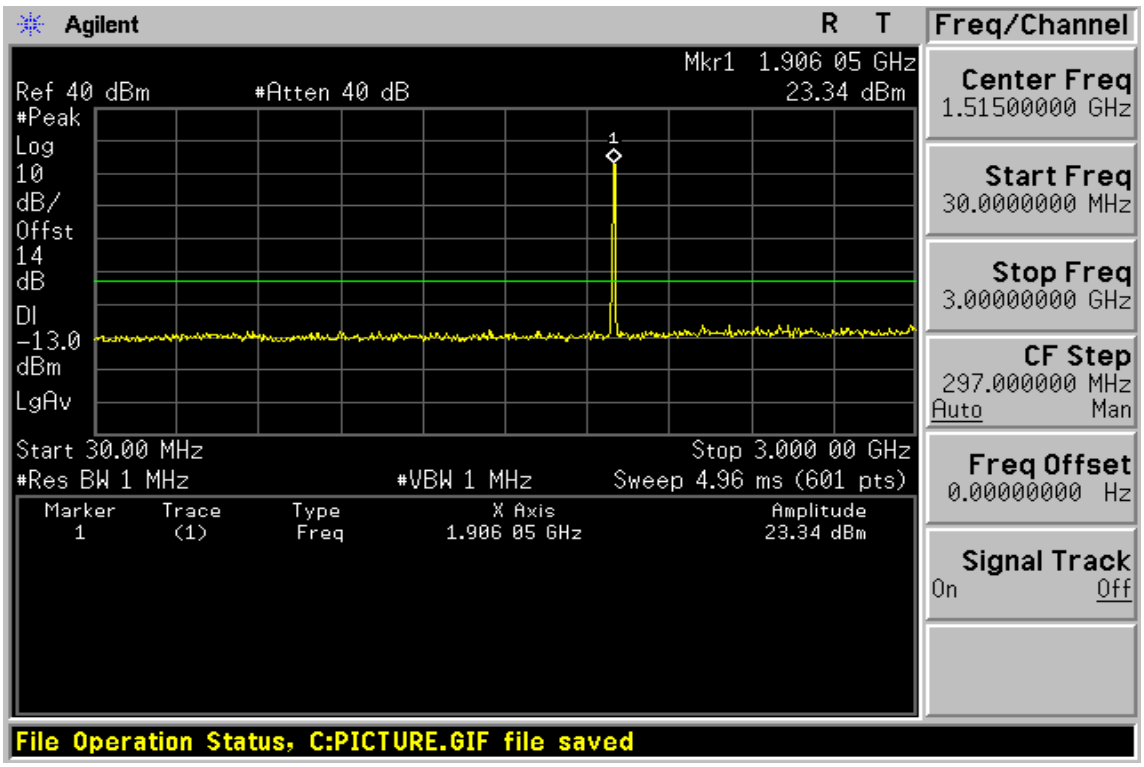
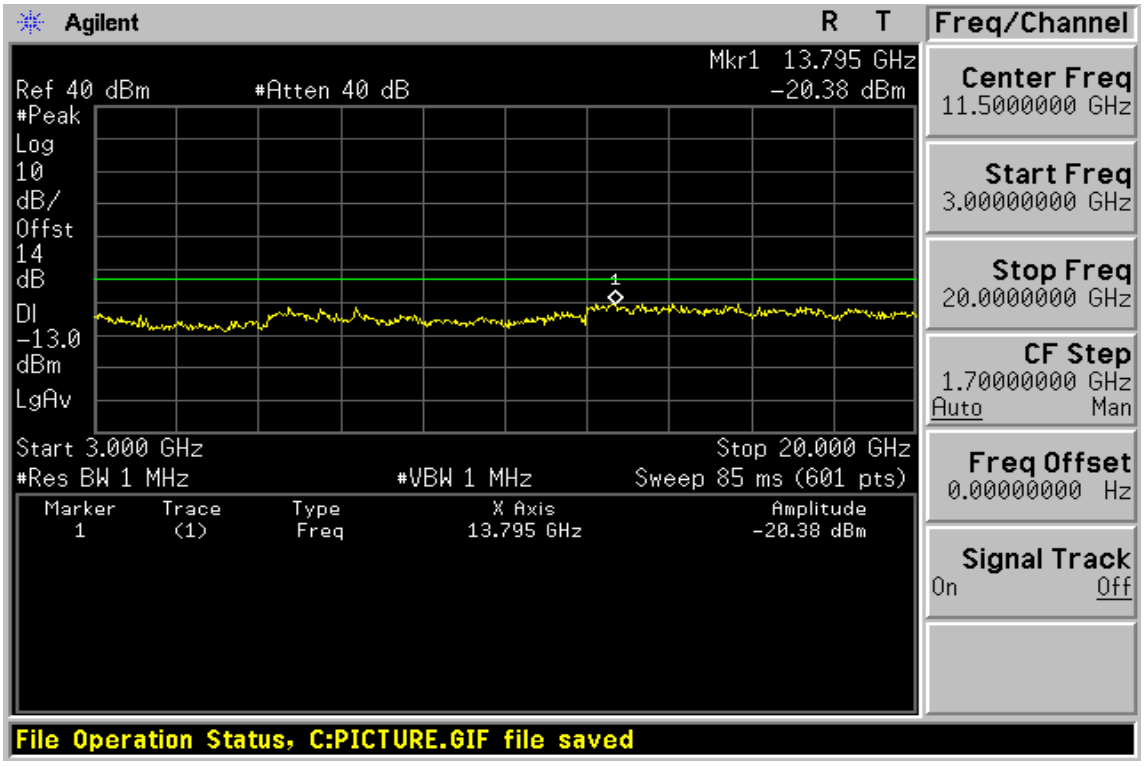
Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest





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Out of Band emission at antenna terminals – WCDMA II

Fundamental Frequency :1852.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
13738.00	S	-20.52	-13.00	7.52
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13540.00	S	-20.20	-13.00	7.20
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
13795.00	S	-20.38	-13.00	7.38
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-34: Band edge emission at antenna terminals – WCDMA II Channel Lowest

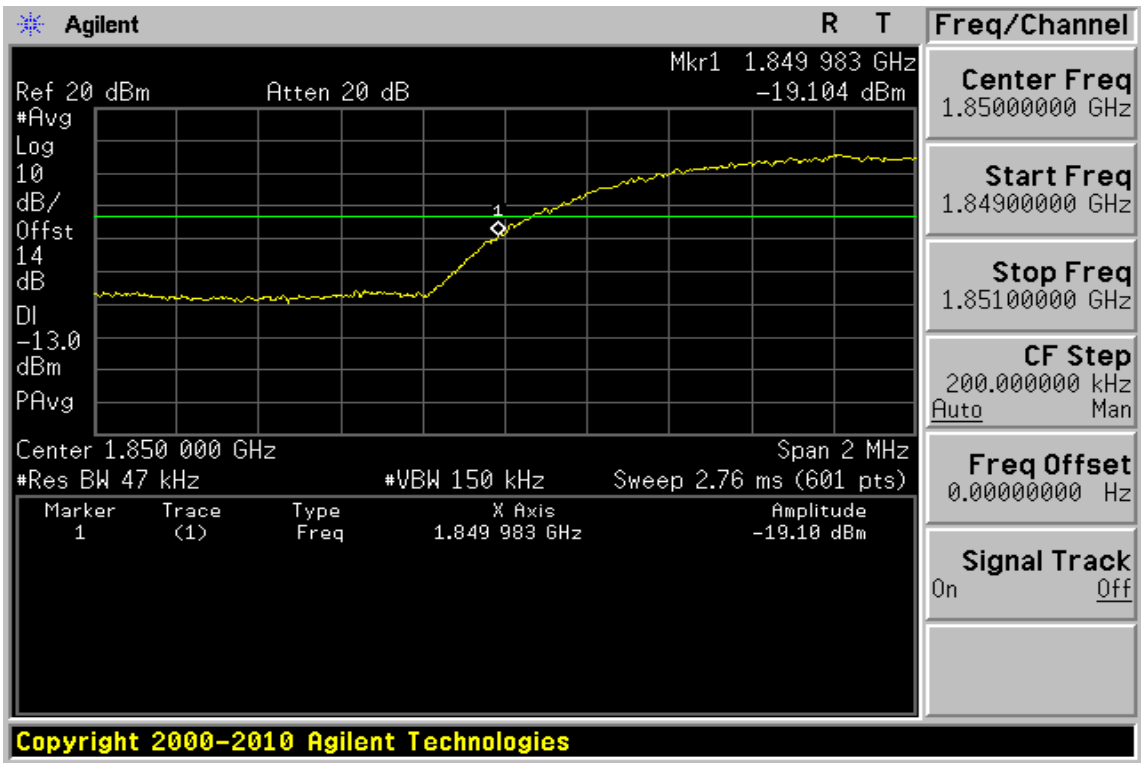
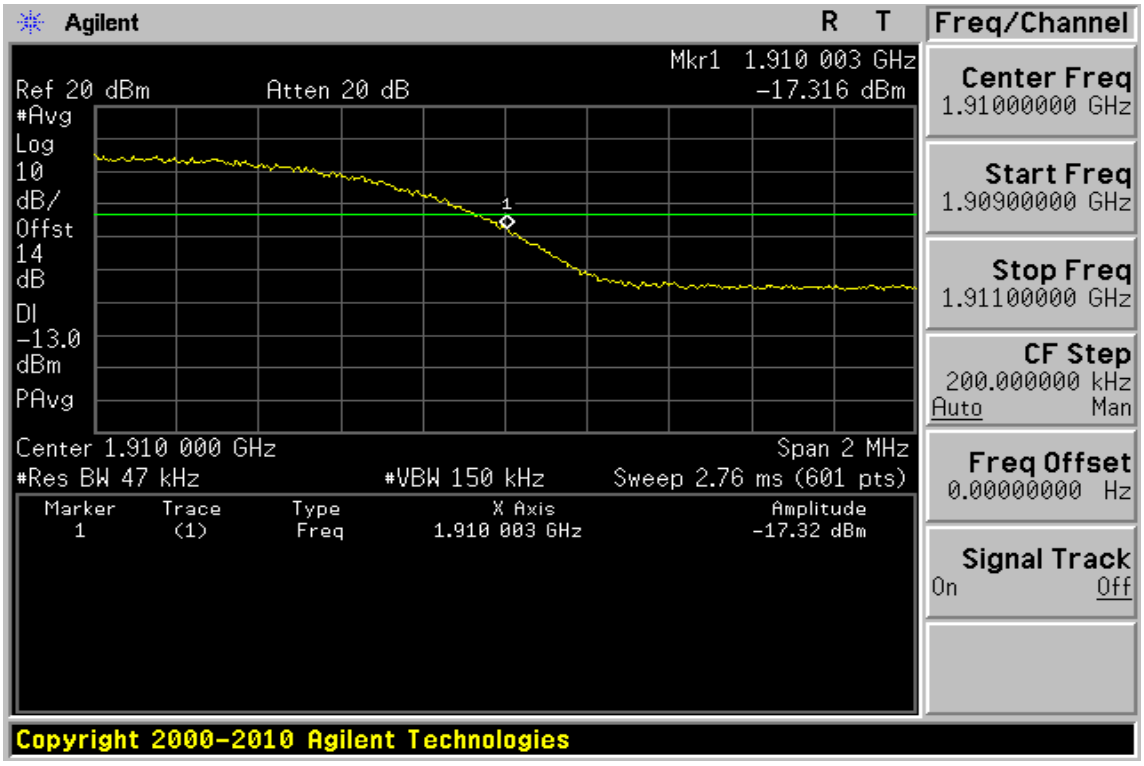


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest



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Band edge emission at antenna terminals – WCDMA II Low & High

Test Mode WCDMA II Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.983	-19.10	-13.00	6.10
1910.003	-17.32	-13.00	4.32

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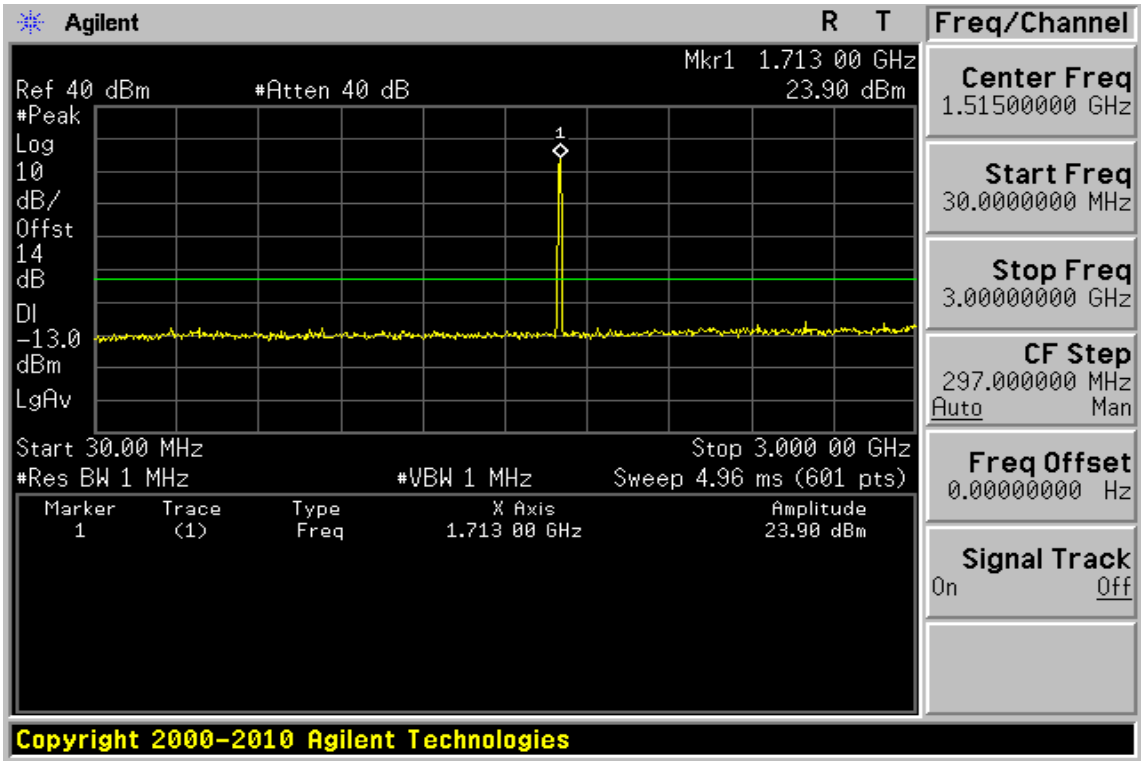
Figure 9-36: Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



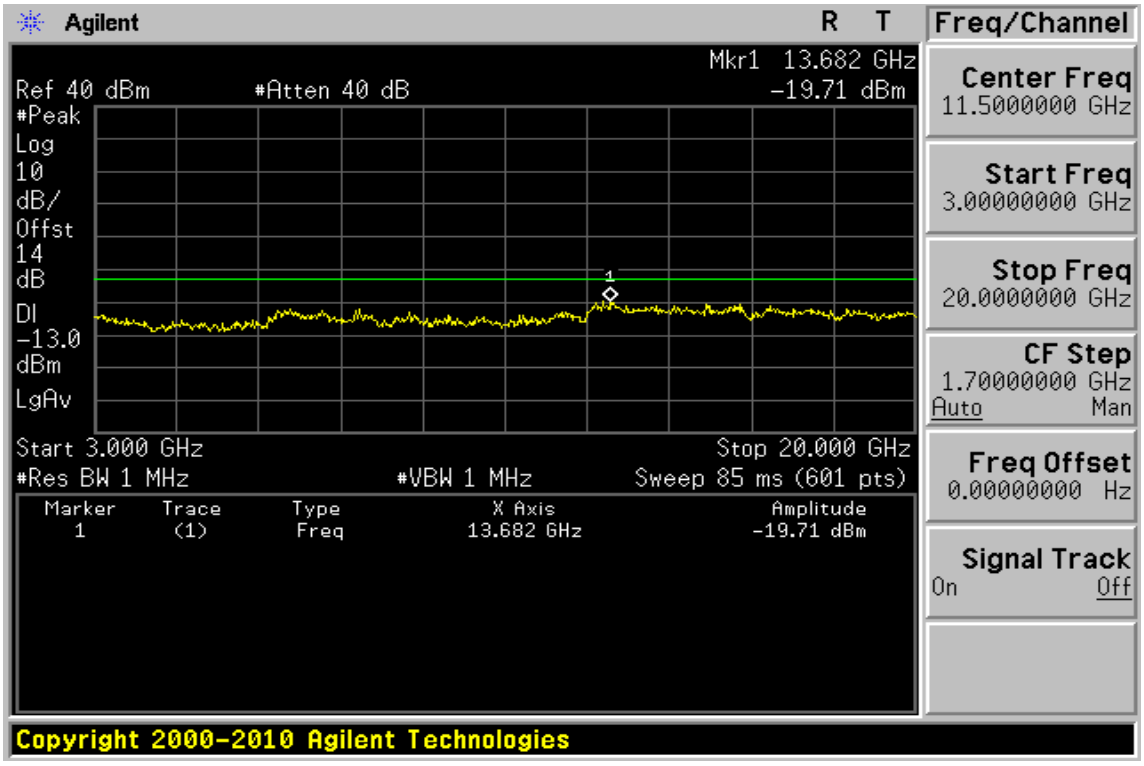


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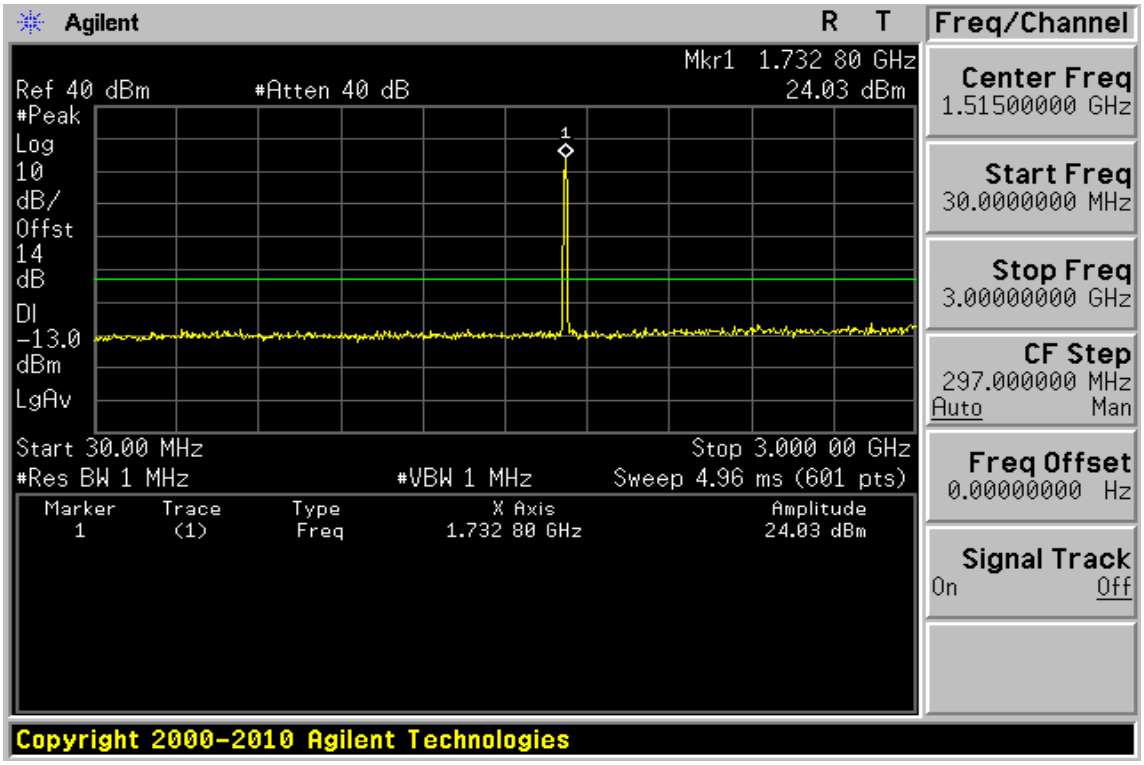
Figure 9-37: Out of Band emission at antenna terminals – WCDMA IV Channel Mid



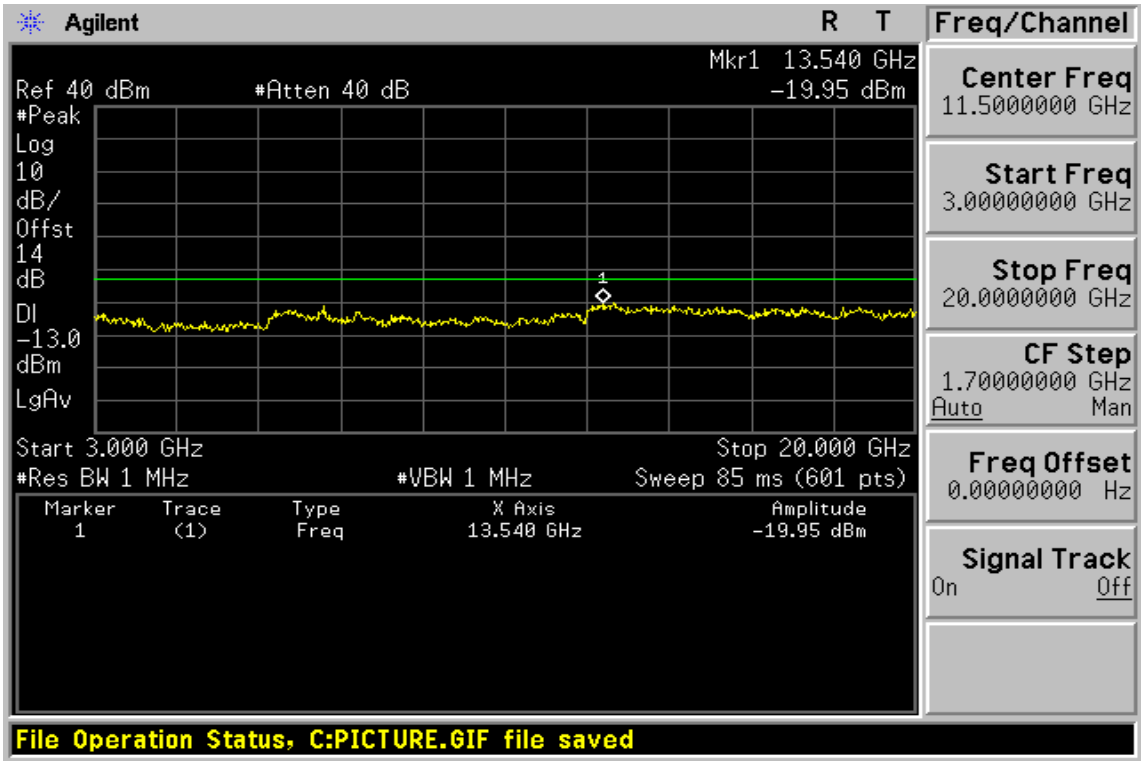


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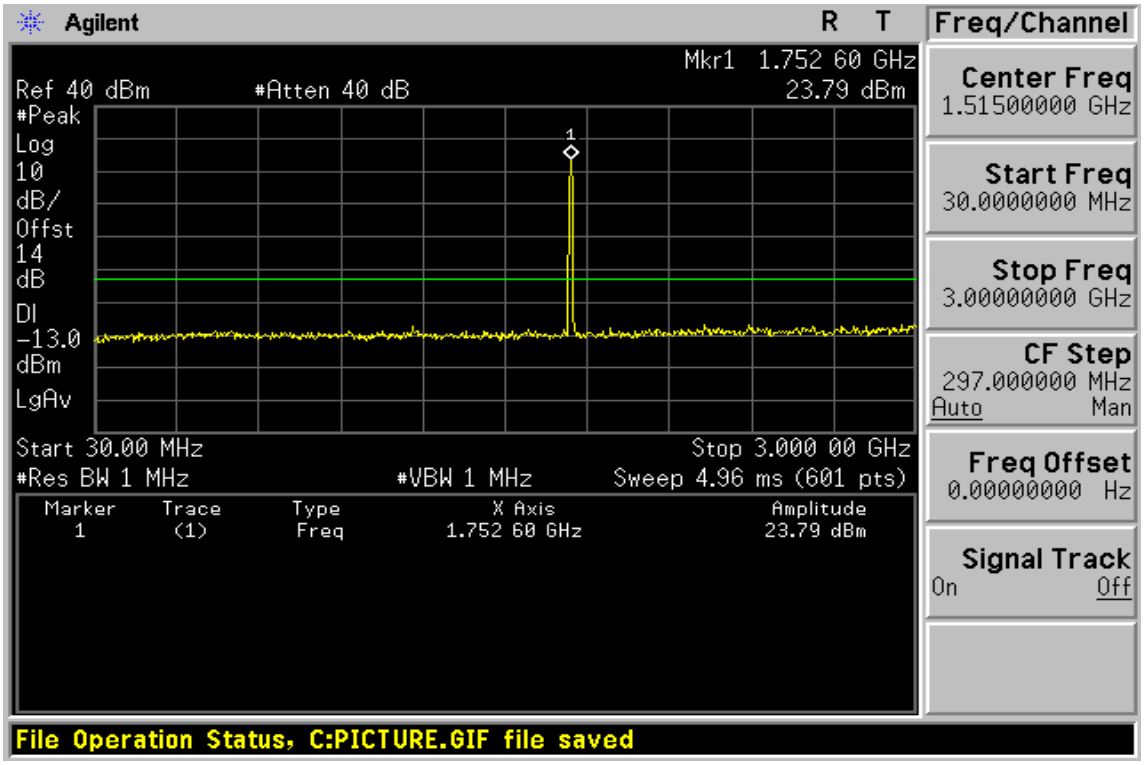
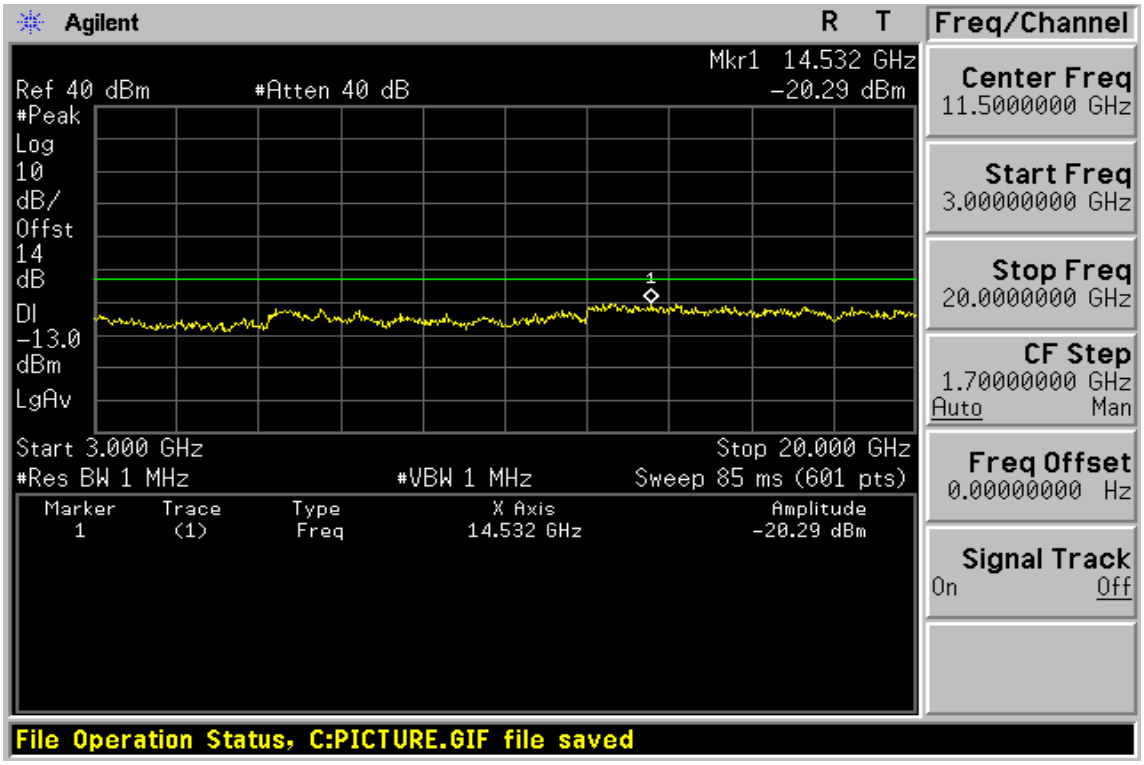
Figure 9-38: Out of Band emission at antenna terminals – WCDMA IV Channel Highest





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Out of Band emission at antenna terminals – WCDMA IV

Fundamental Frequency 1712.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3424.80	H	---	-13.00	---
5137.20	H	---	-13.00	---
6849.60	H	---	-13.00	---
8562.00	H	---	-13.00	---
10274.40	H	---	-13.00	---
11986.80	H	---	-13.00	---
13682.00	S	-19.71	-13.00	6.71
13699.20	H	---	-13.00	---
15411.60	H	---	-13.00	---
17124.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1732.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3465.20	H	---	-13.00	---
5197.80	H	---	-13.00	---
6930.40	H	---	-13.00	---
8663.00	H	---	-13.00	---
10395.60	H	---	-13.00	---
12128.20	H	---	-13.00	---
13540.00	S	-19.95	-13.00	6.95
13860.80	H	---	-13.00	---
15593.40	H	---	-13.00	---
17326.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency 1752.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3505.20	H	---	-13.00	---
5257.80	H	---	-13.00	---
7010.40	H	---	-13.00	---
8763.00	H	---	-13.00	---
10515.60	H	---	-13.00	---
12268.20	H	---	-13.00	---
14020.80	H	---	-13.00	---
14532.00	S	-20.29	-13.00	7.29
15773.40	H	---	-13.00	---
17526.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-39: Band edge emission at antenna terminals – WCDMA IV Channel Lowest

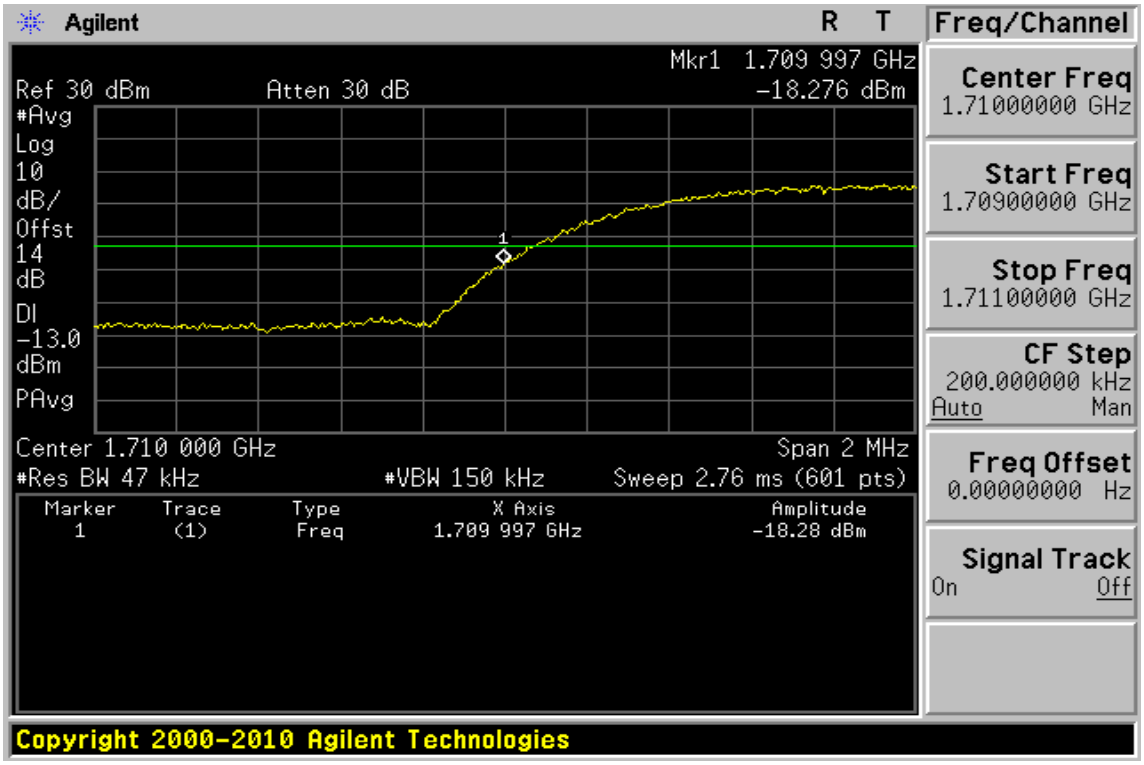

Figure 9-40: Band edge emission at antenna terminals – WCDMA IV Channel Highest

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Band edge emission at antenna terminals – WCDMA IV Low & High

Test Mode WCDMA IV Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.997	-18.28	-13.00	5.28
1755.003	-18.17	-13.00	5.17

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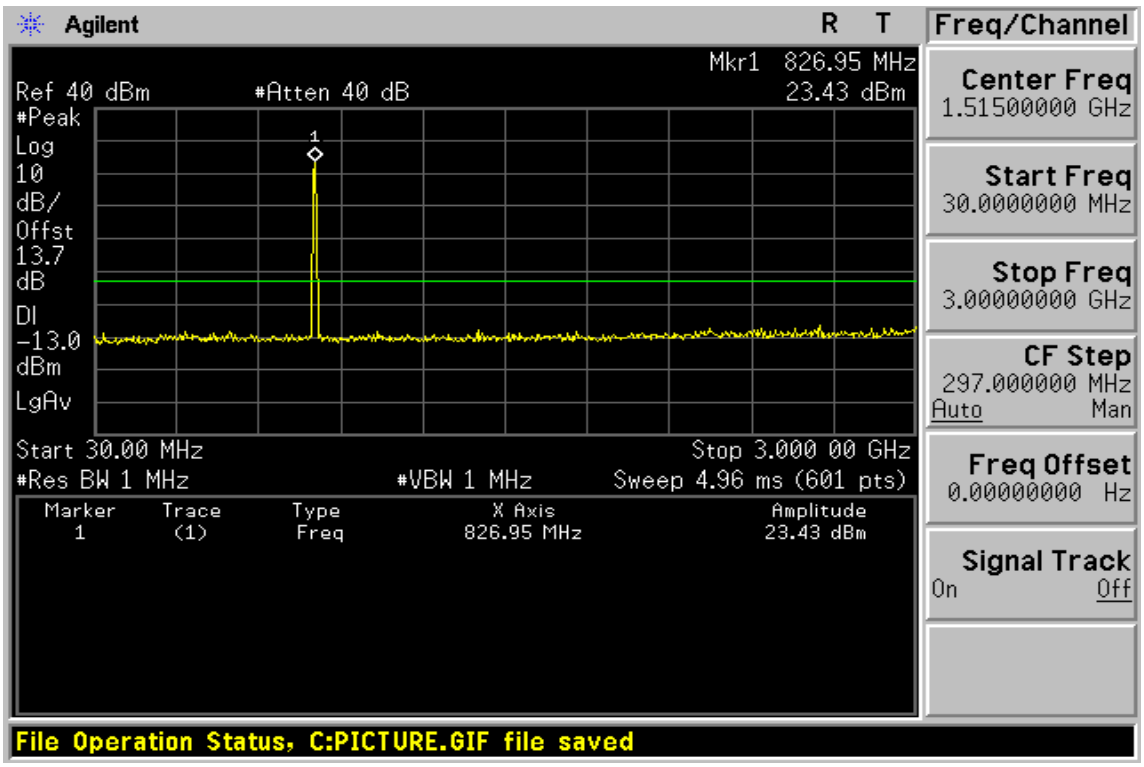
Figure 9-41: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



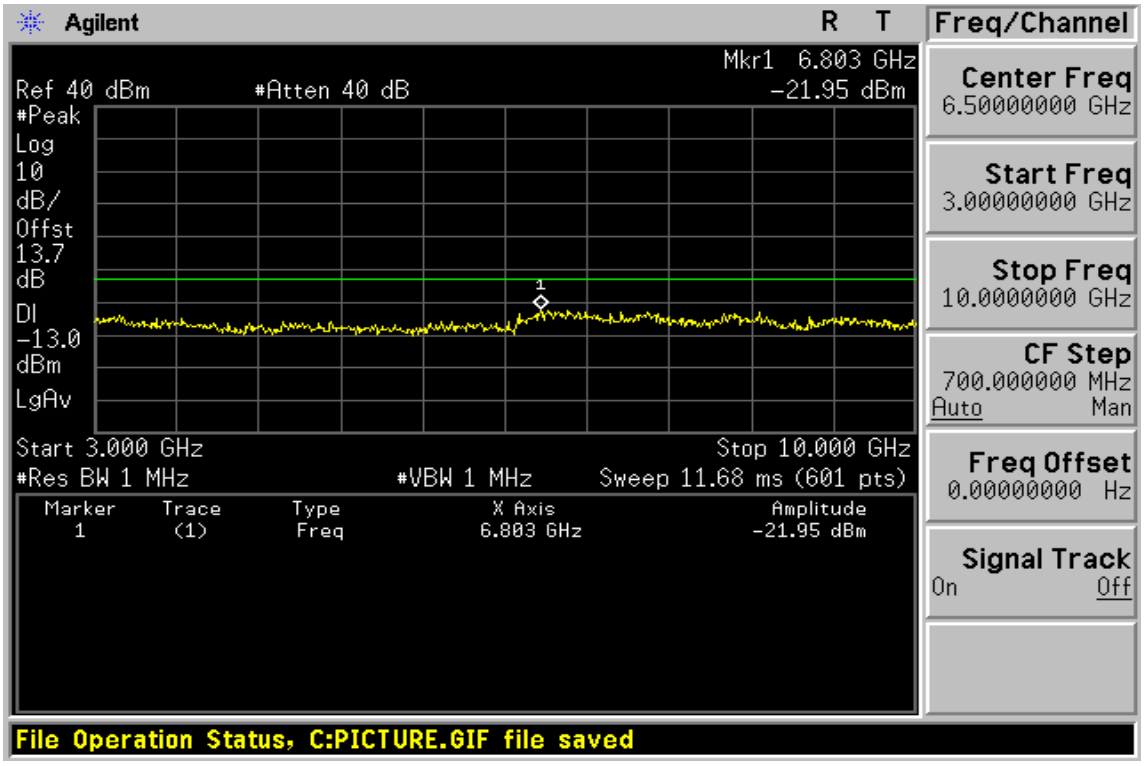


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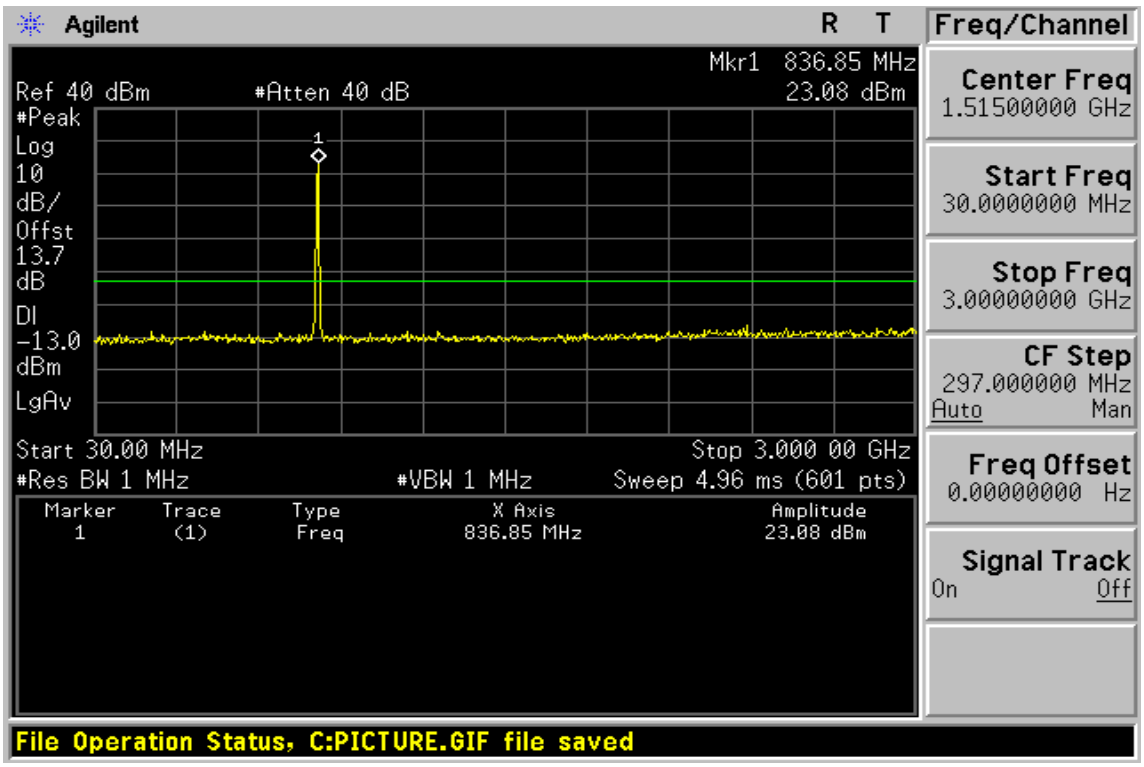
Figure 9-42: Out of Band emission at antenna terminals – WCDMA V Channel Mid



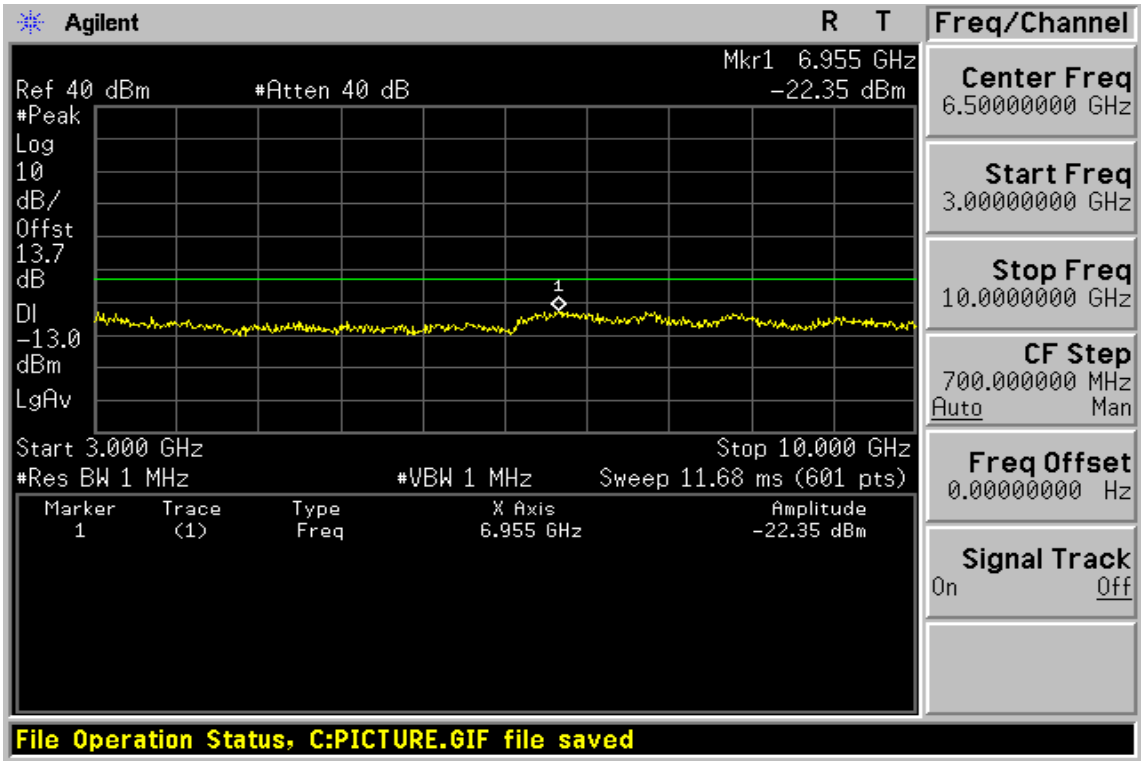


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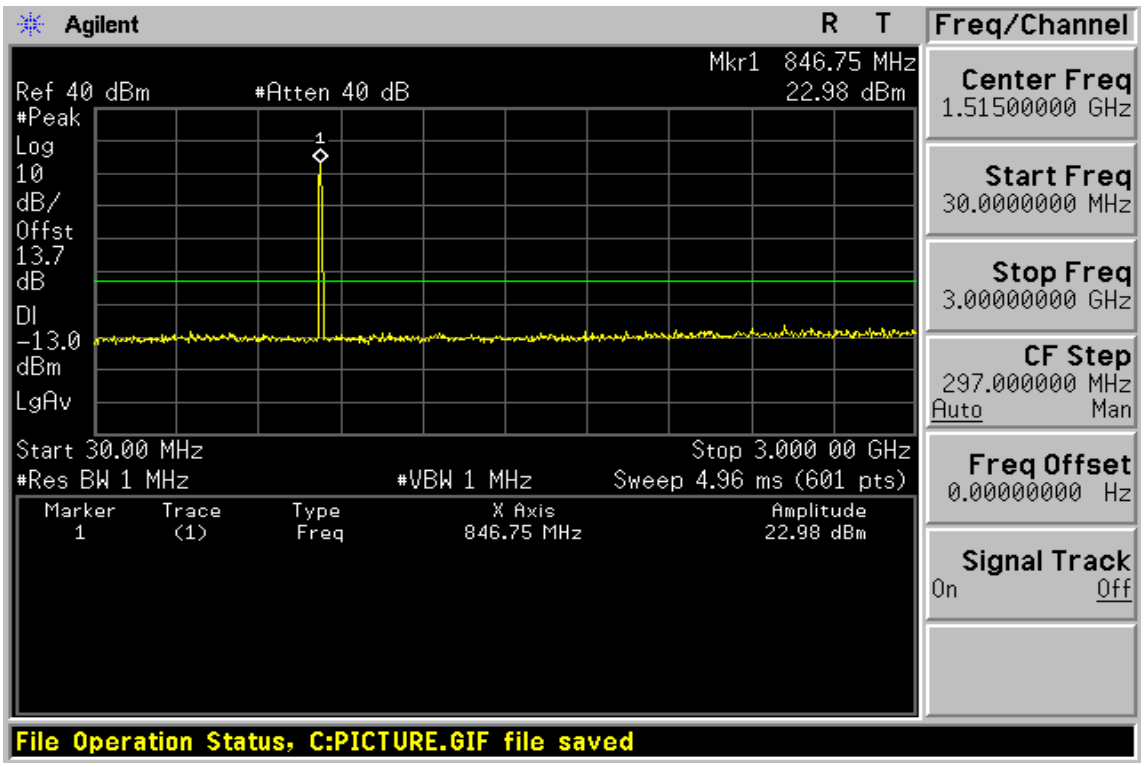
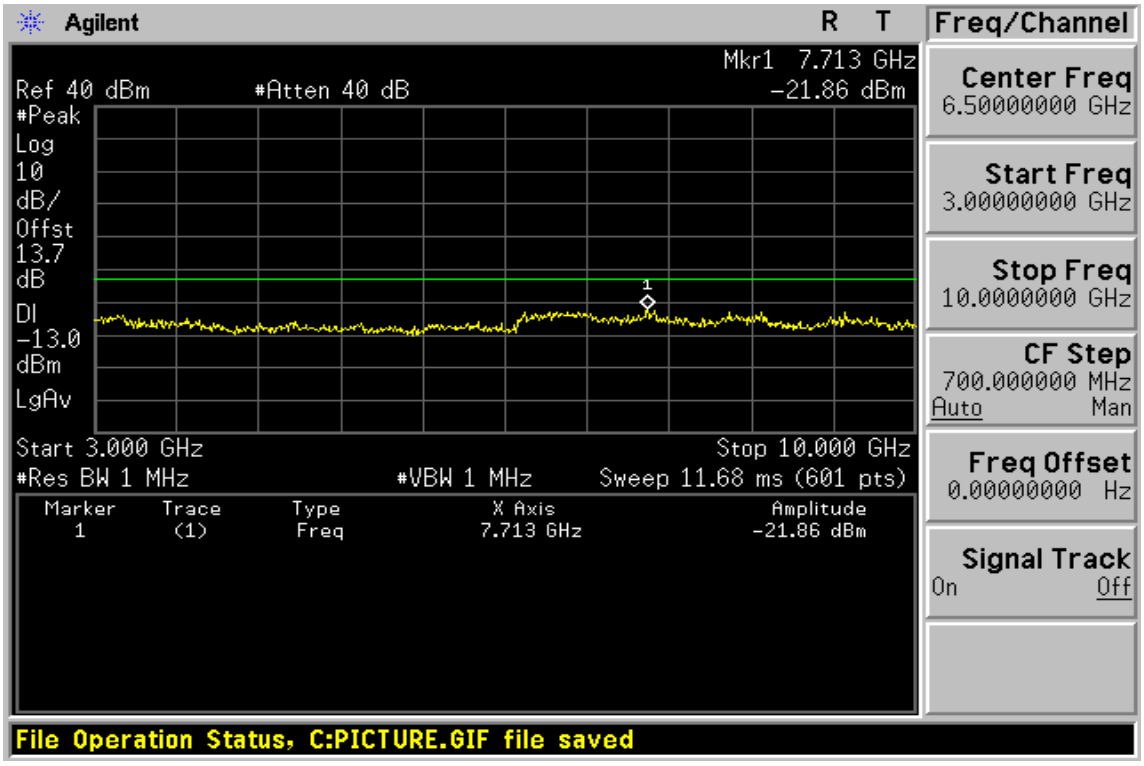
Figure 9-43: Out of Band emission at antenna terminals – WCDMA V Channel Highest





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Out of Band emission at antenna terminals – WCDMA V

Fundamental Frequency :826.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
6803.00	S	-21.95	-13.00	8.95
7437.60	H	---	-13.00	---
8264.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
6955.00	S	-22.35	-13.00	9.35
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
7619.40	H	---	-13.00	---
7713.00	S	-21.86	-13.00	8.86
8466.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-44: Band edge emission at antenna terminals – WCDMA V Channel Lowest

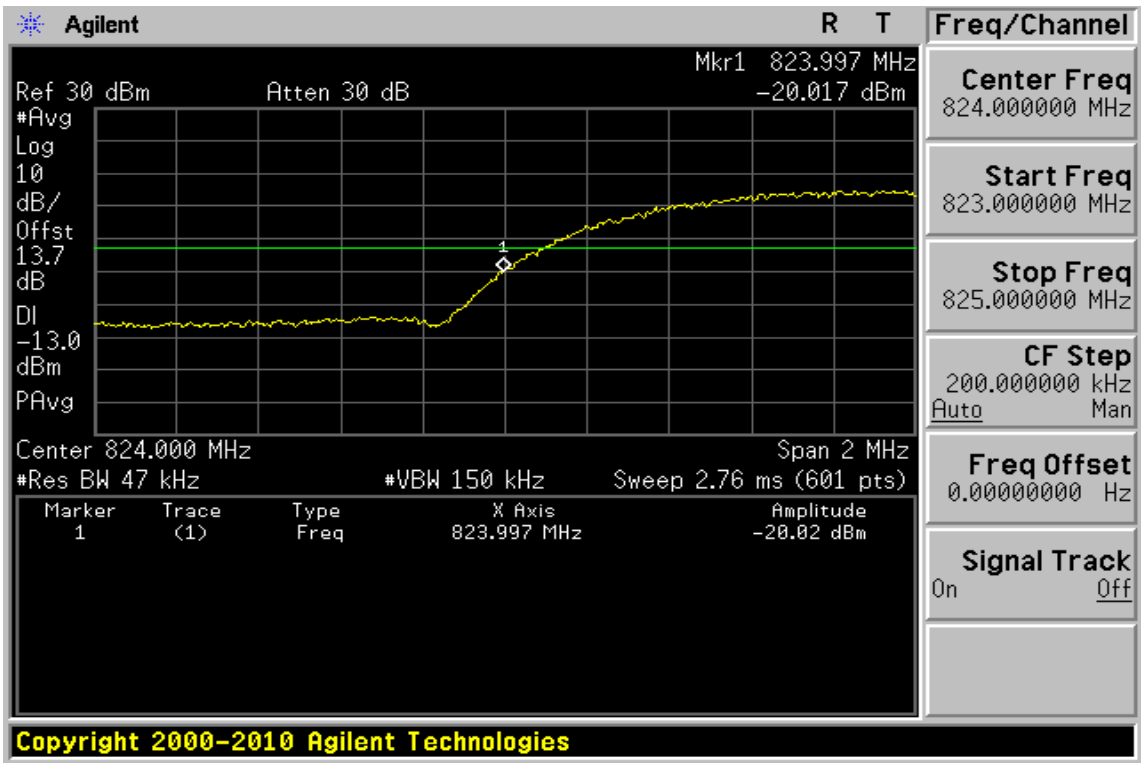
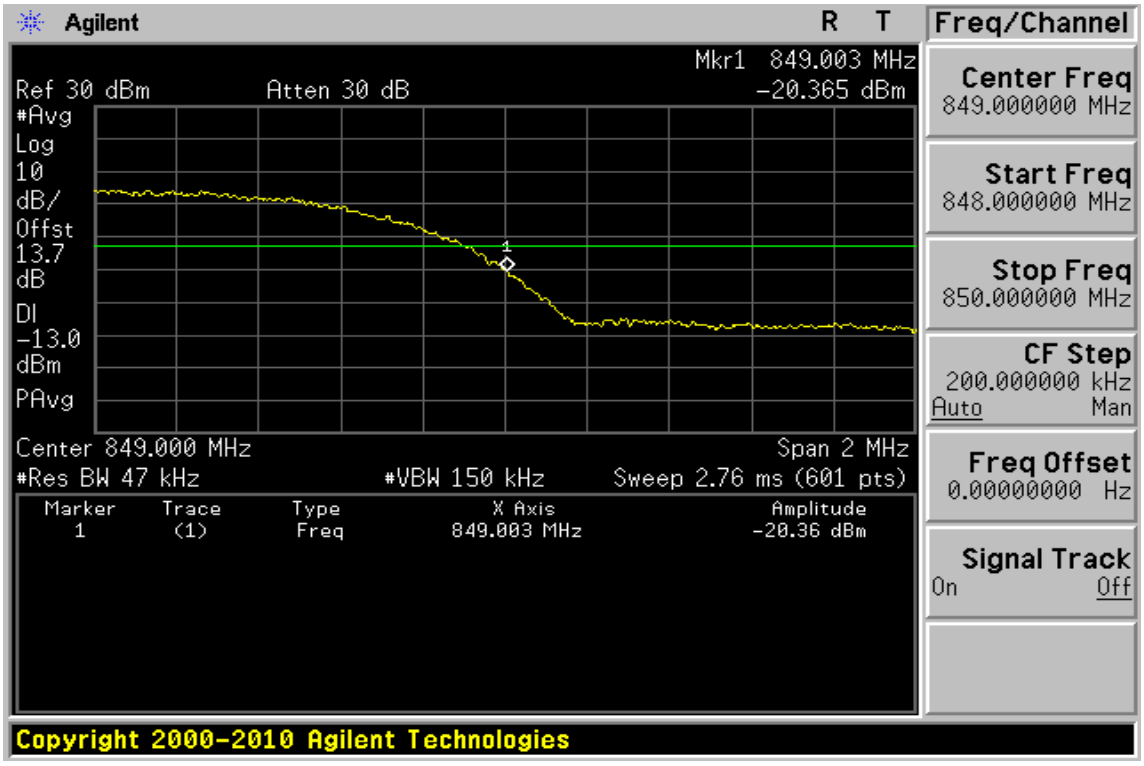


Figure 9-45: Band edge emission at antenna terminals – WCDMA V Channel Highest



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Band edge emission at antenna terminals – WCDMA V Low & High

Test Mode WCDMA V Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-20.02	-13.00	7.02
849.003	-20.36	-13.00	7.36

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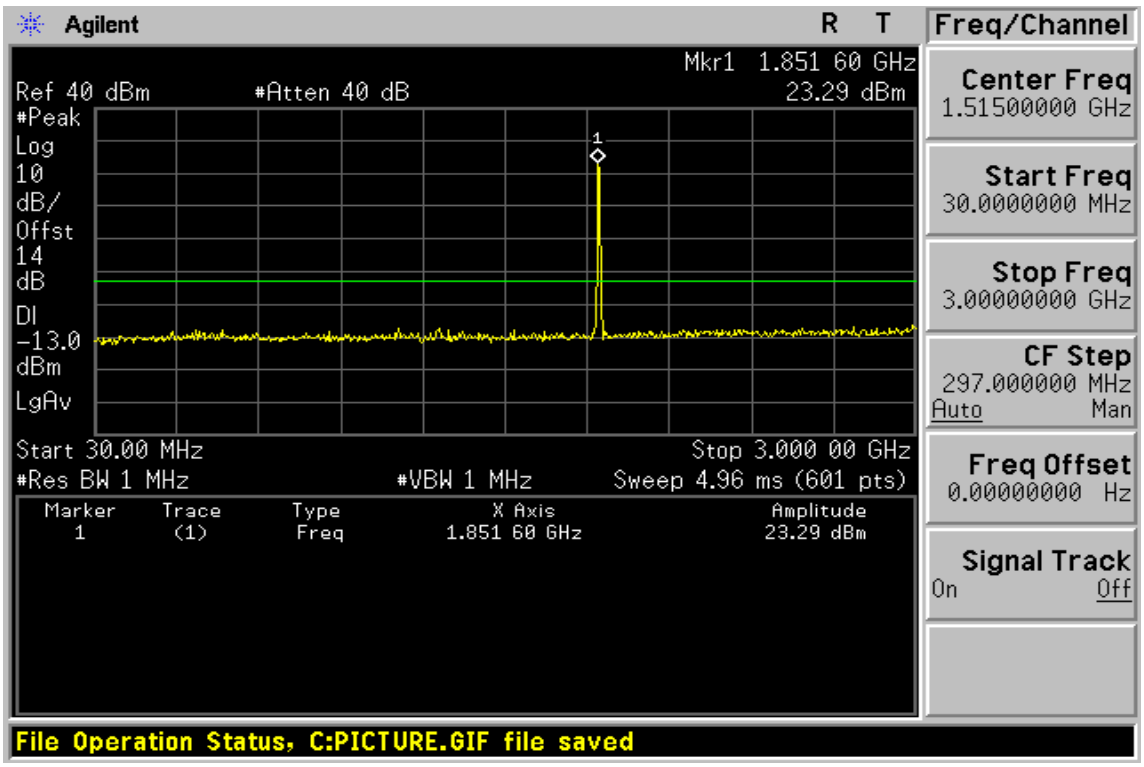
Figure 9-46: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



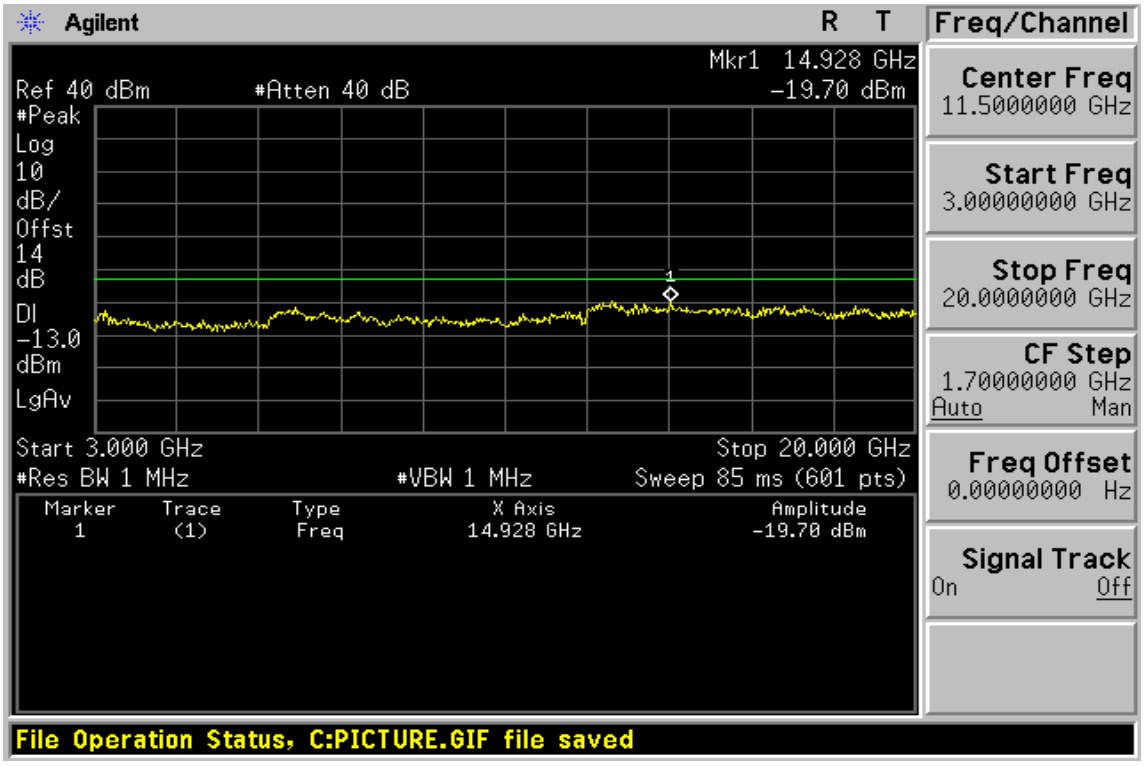


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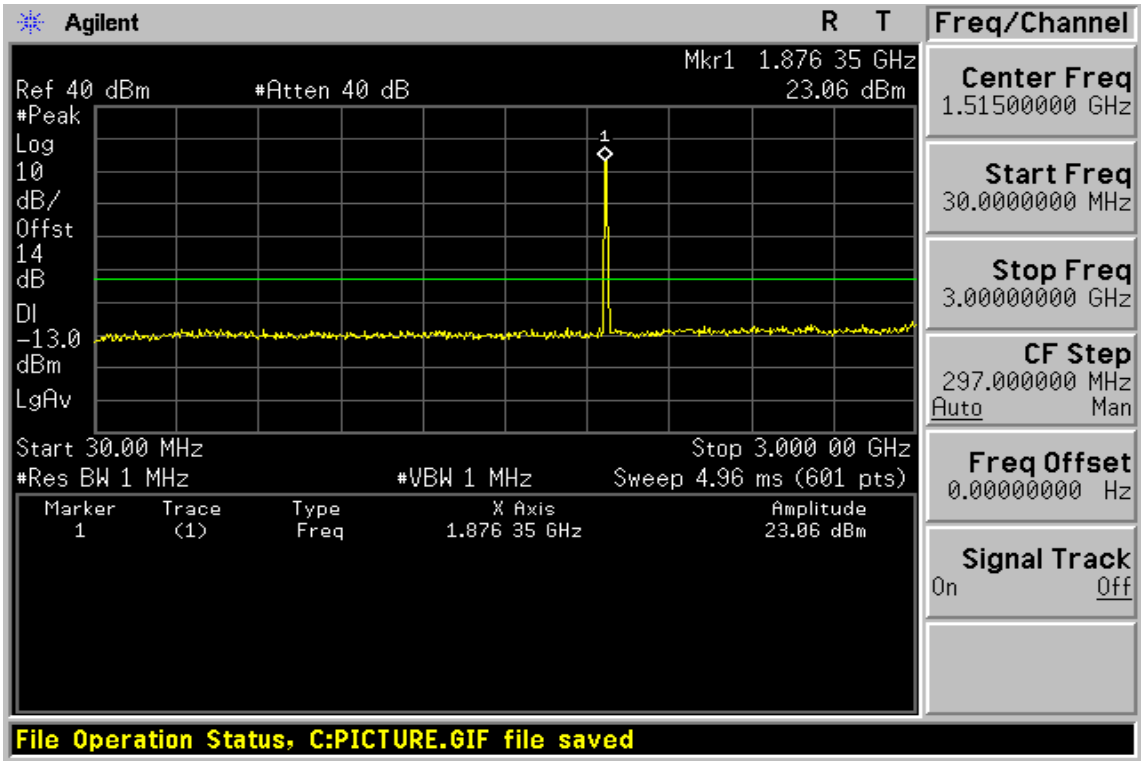
Figure 9-47: Out of Band emission at antenna terminals – HSDPA II Channel Mid



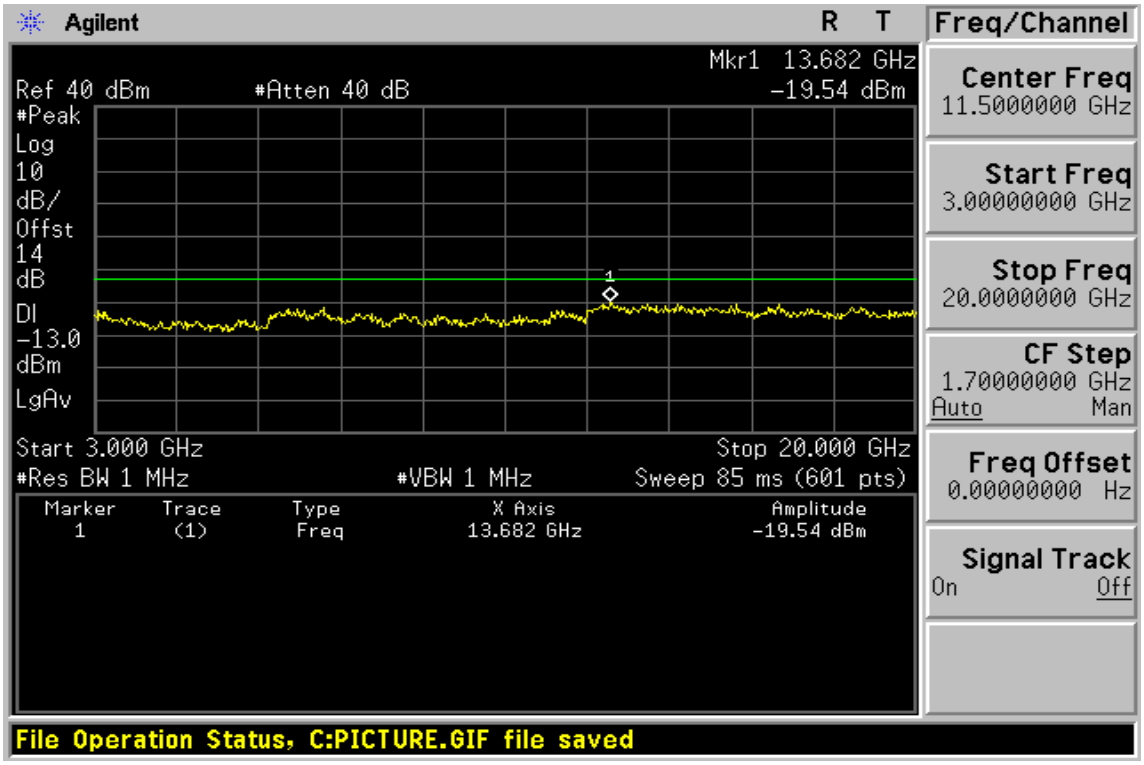


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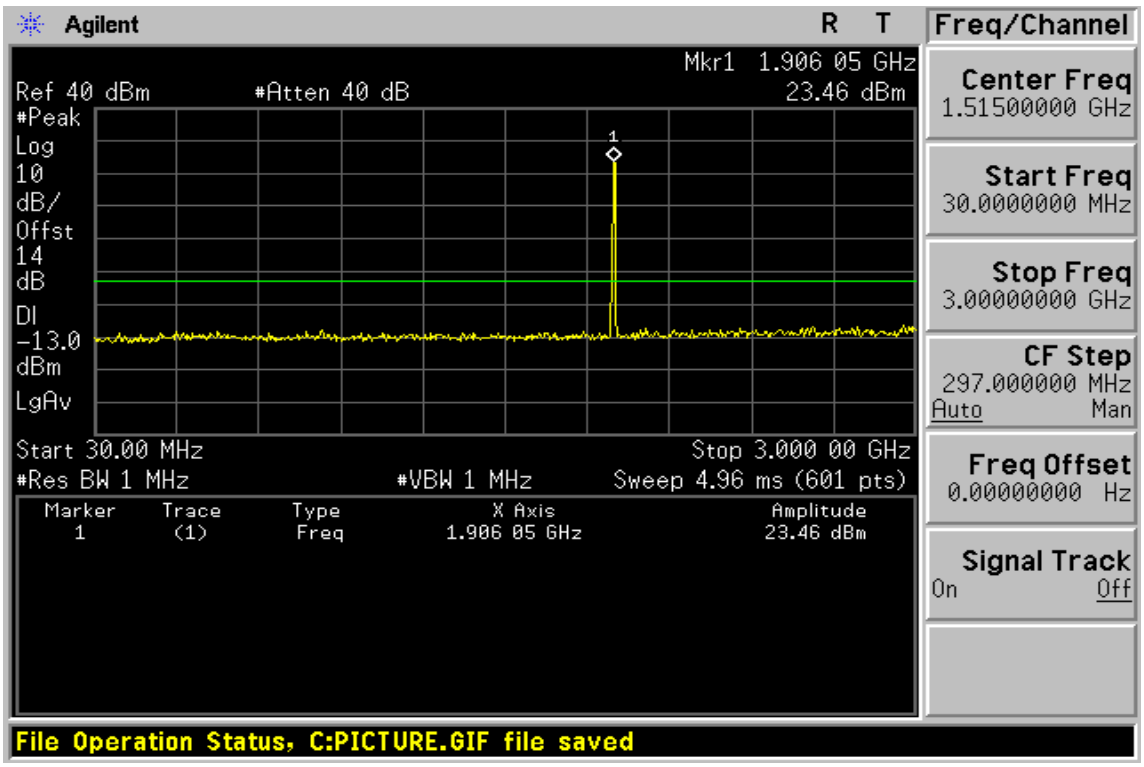
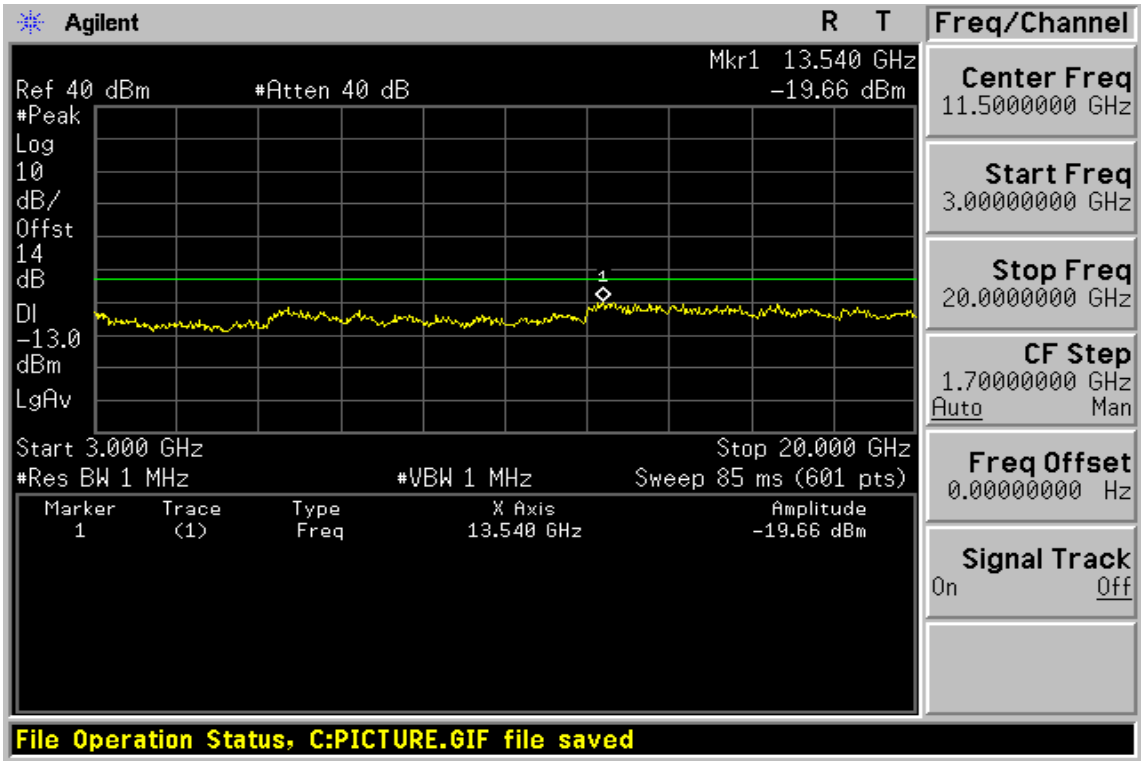
Figure 9-48: Out of Band emission at antenna terminals – HSDPA II Channel Highest





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Out of Band emission at antenna terminals – HSDPA II

Fundamental Frequency :1852.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
14819.20	H	---	-13.00	---
14928.00	S	-19.7	-13.00	6.70
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13682.00	S	-19.54	-13.00	6.54
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
13540.00	S	-19.66	-13.00	6.66
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-49: Band edge emission at antenna terminals – HSDPA II Channel Lowest

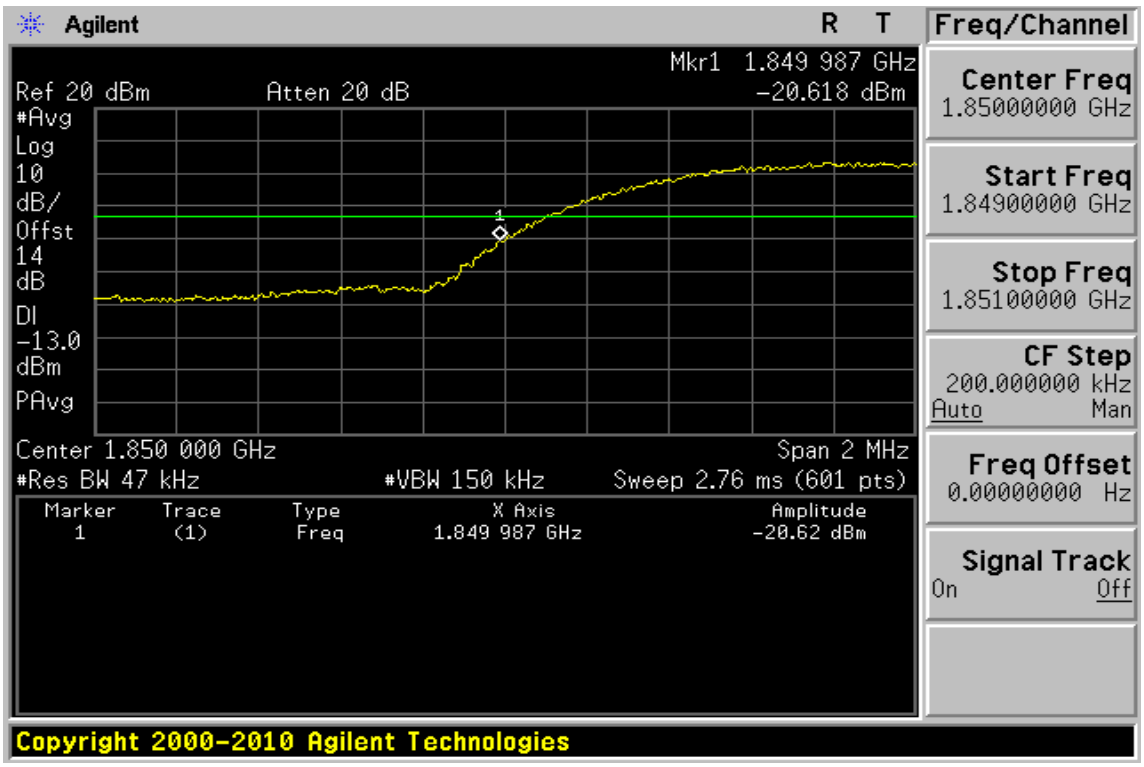
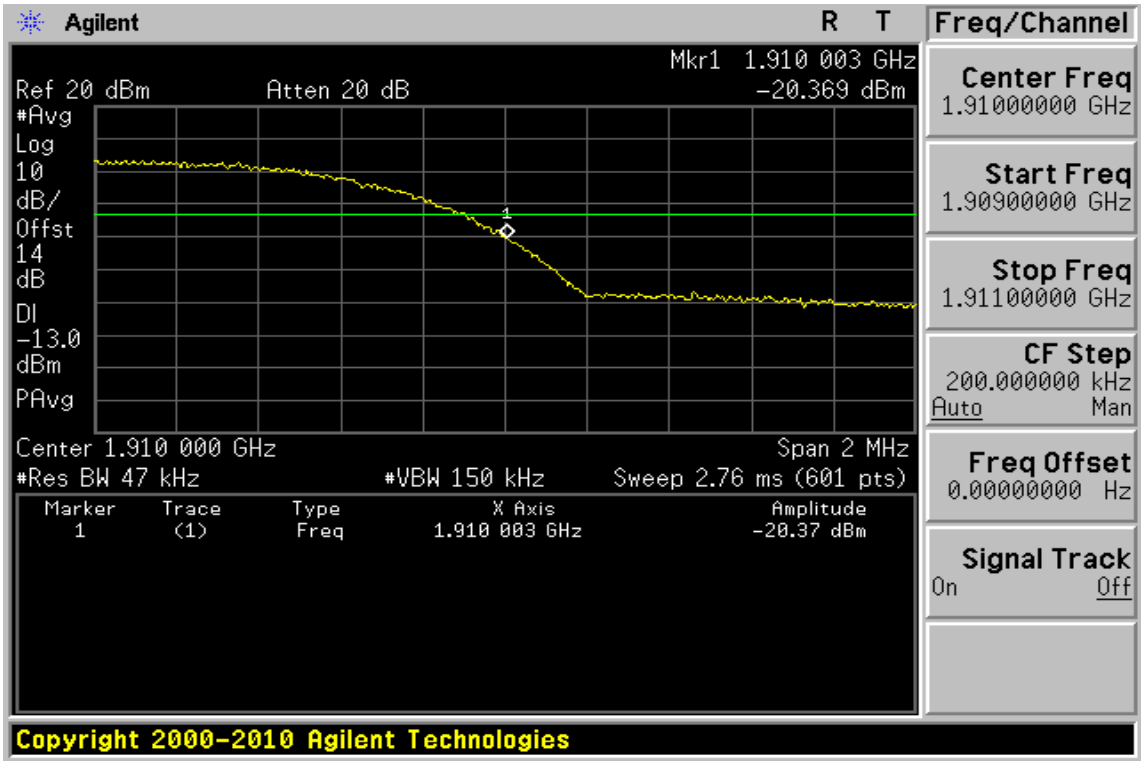


Figure 9-50: Band edge emission at antenna terminals – HSDPA II Channel Highest



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Band edge emission at antenna terminals – HSDPA II Low & High

Test Mode HSDPA II Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.987	-20.62	-13.00	7.62
1910.003	-20.37	-13.00	7.37

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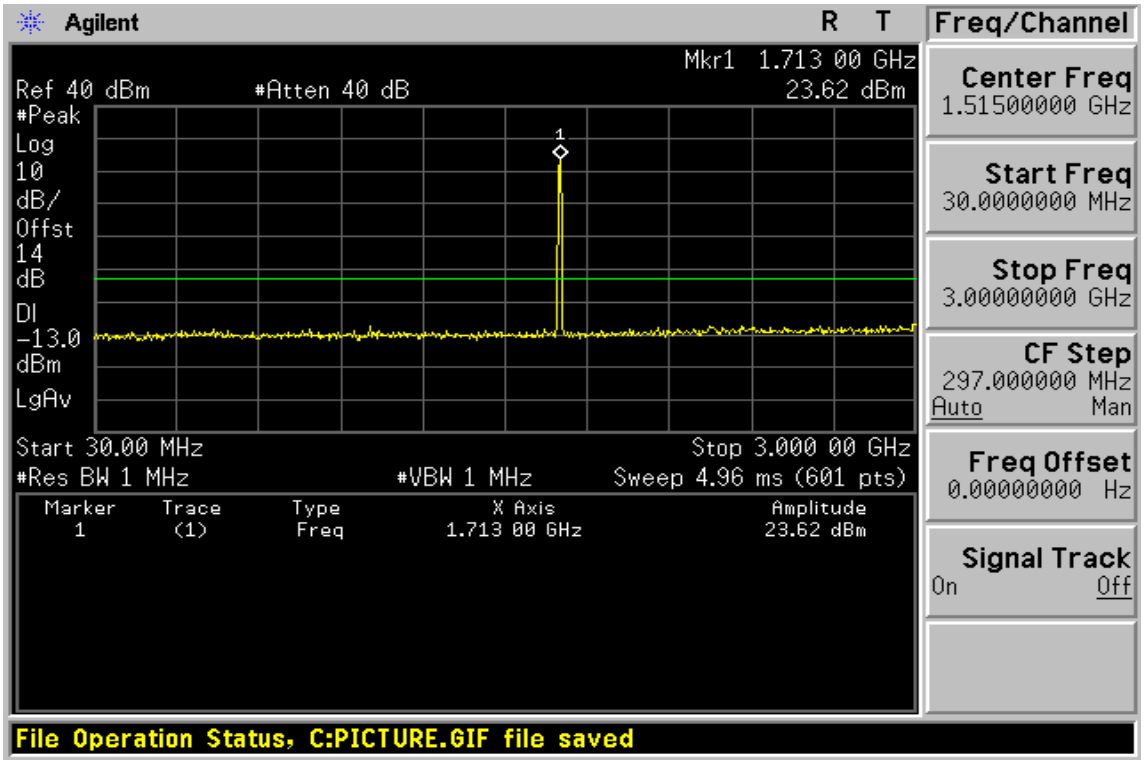
Figure 9-51: Out of Band emission at antenna terminals HSDPA IV Channel Lowest



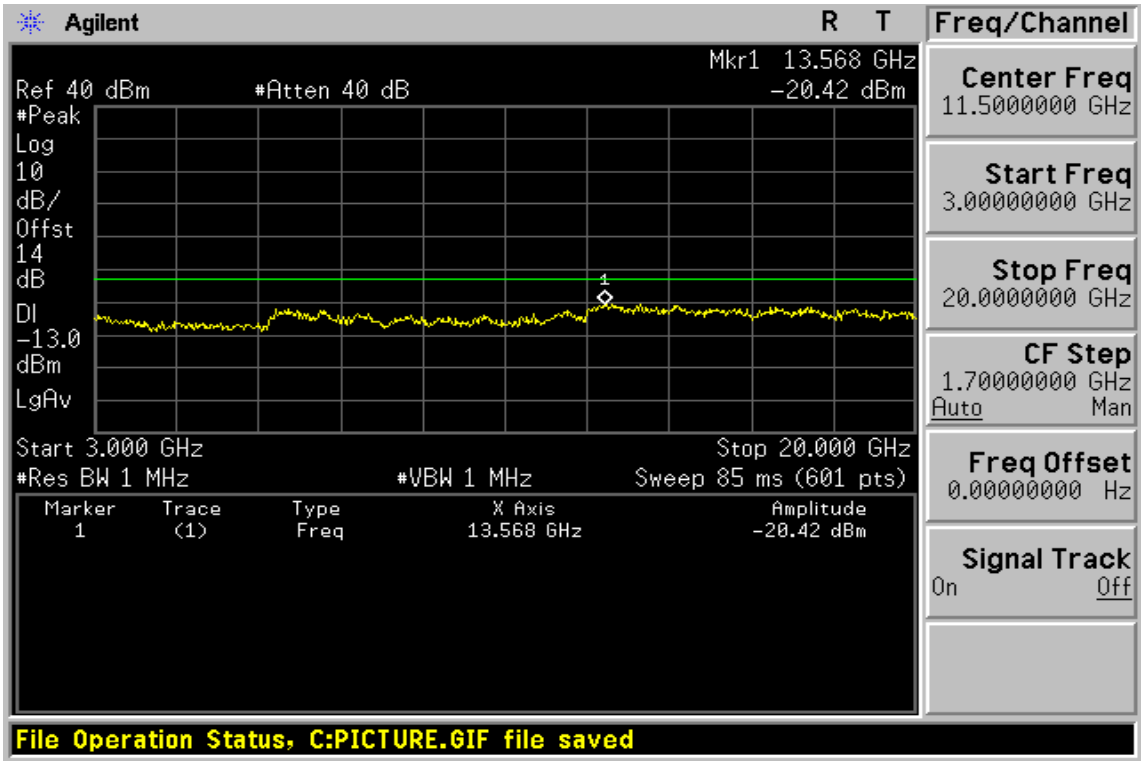


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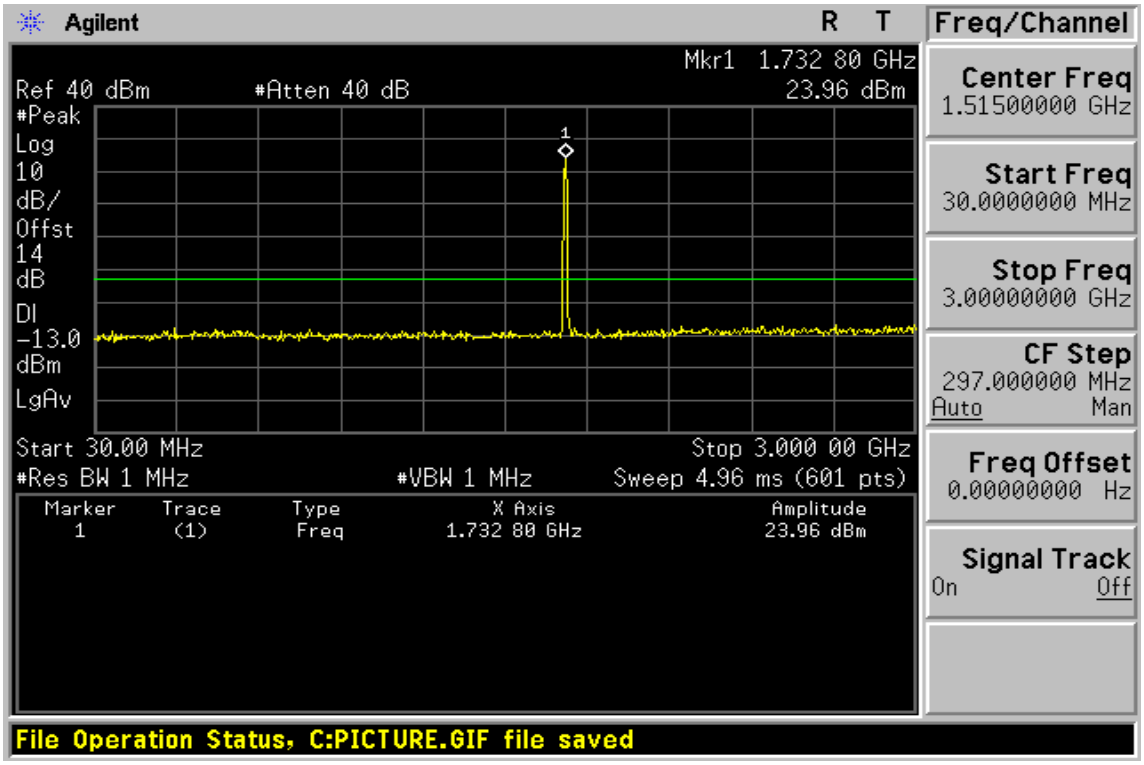
Figure 9-52: Out of Band emission at antenna terminals –HSDPA IV Channel Mid



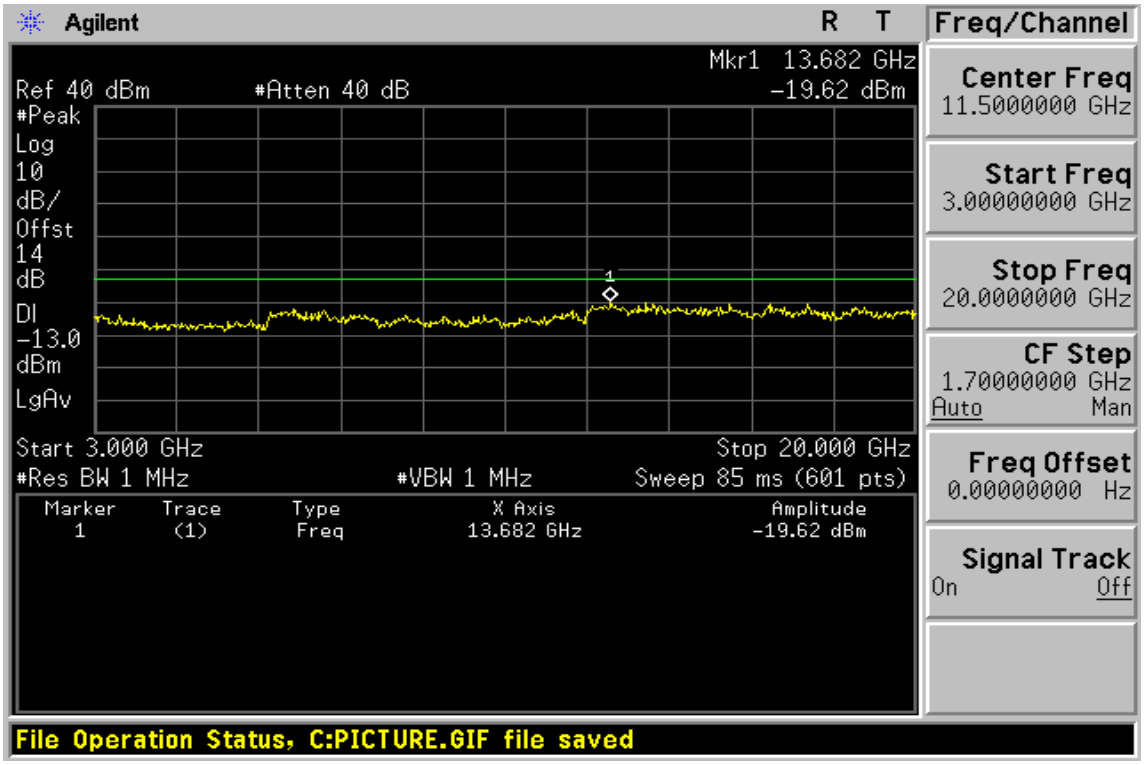


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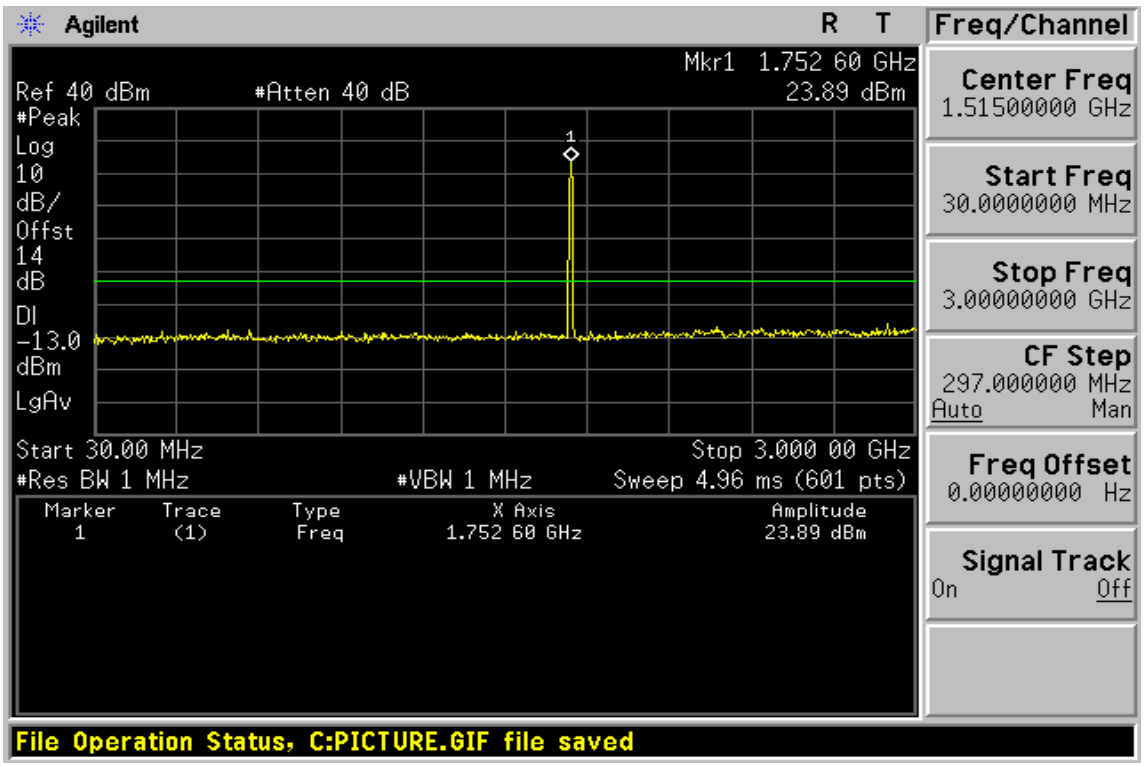
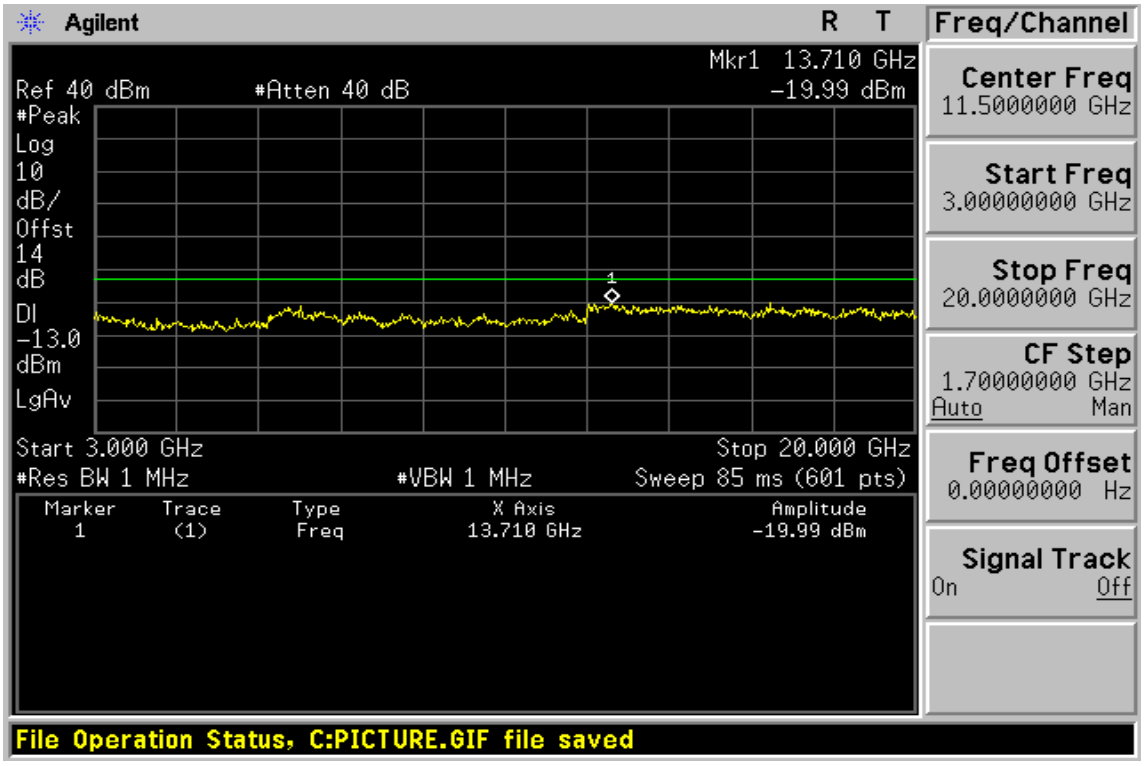
Figure 9-53: Out of Band emission at antenna terminals –HSDPA IV Channel Highest





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Out of Band emission at antenna terminals –HSDPA IV

Fundamental Frequency 1712.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3424.80	H	---	-13.00	---
5137.20	H	---	-13.00	---
6849.60	H	---	-13.00	---
8562.00	H	---	-13.00	---
10274.40	H	---	-13.00	---
11986.80	H	---	-13.00	---
13568.00	S	-20.42	-13.00	7.42
13699.20	H	---	-13.00	---
15411.60	H	---	-13.00	---
17124.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1732.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3465.20	H	---	-13.00	---
5197.80	H	---	-13.00	---
6930.40	H	---	-13.00	---
8663.00	H	---	-13.00	---
10395.60	H	---	-13.00	---
12128.20	H	---	-13.00	---
13682.00	S	-19.62	-13.00	6.62
13860.80	H	---	-13.00	---
15593.40	H	---	-13.00	---
17326.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency 1752.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3505.20	H	---	-13.00	---
5257.80	H	---	-13.00	---
7010.40	H	---	-13.00	---
8763.00	H	---	-13.00	---
10515.60	H	---	-13.00	---
12268.20	H	---	-13.00	---
13710.00	S	-19.99	-13.00	6.99
14020.80	H	---	-13.00	---
15773.40	H	---	-13.00	---
17526.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-54: Band edge emission at antenna terminals –HSDPA IV Channel Lowest

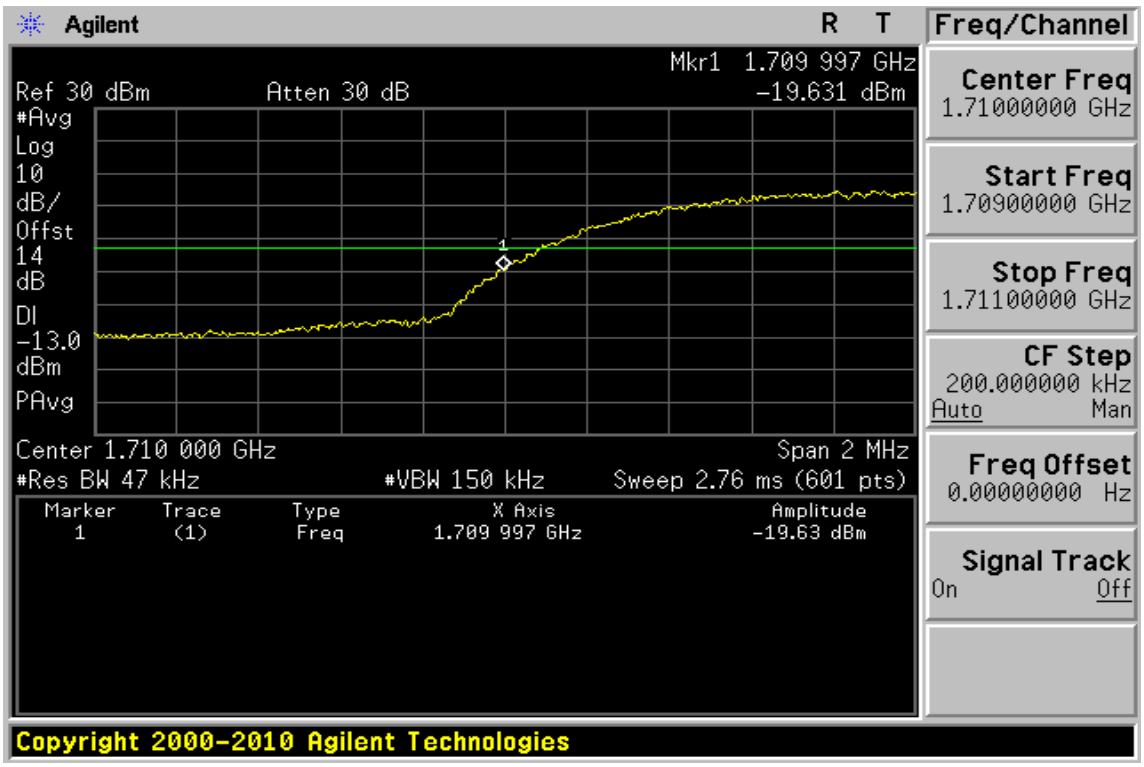

Figure 9-55: Band edge emission at antenna terminals –HSDPA IV Channel Highest

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Band edge emission at antenna terminals –HSDPA IV Low & High

Test Mode HSDPA IV Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.997	-19.63	-13.00	6.63
1755.003	-18.69	-13.00	5.69

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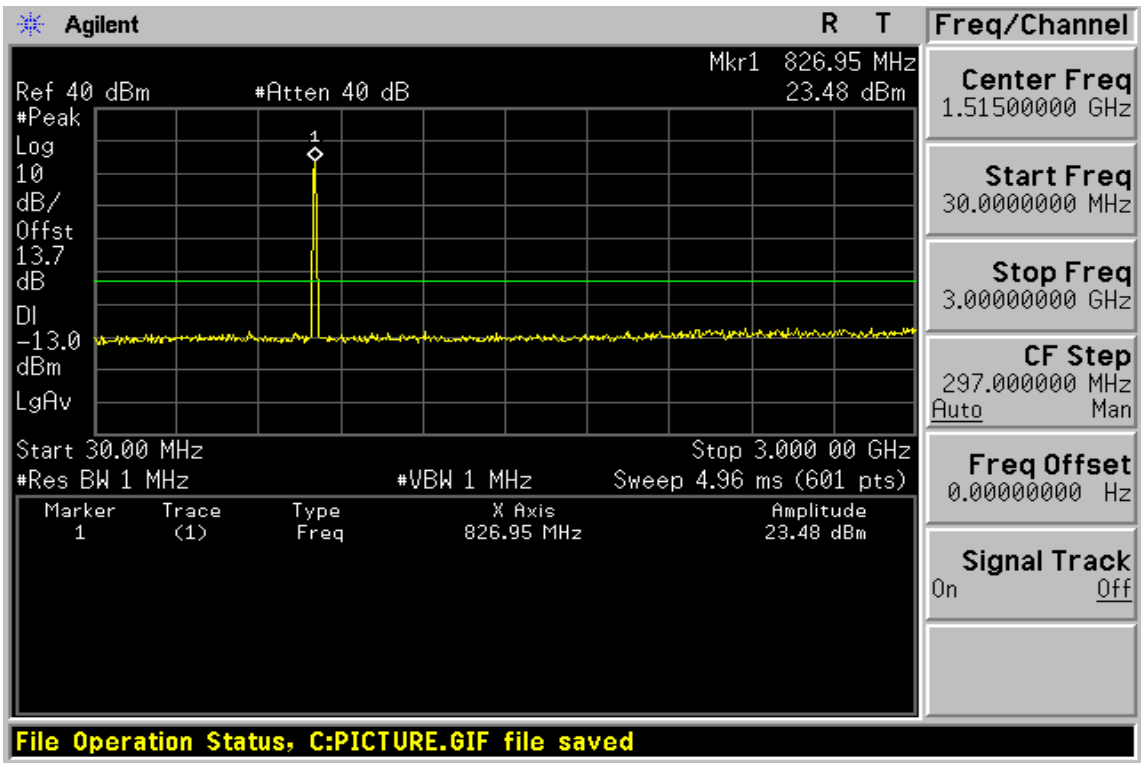
Figure 9-56: Out of Band emission at antenna terminals – HSDPA V Channel Lowest



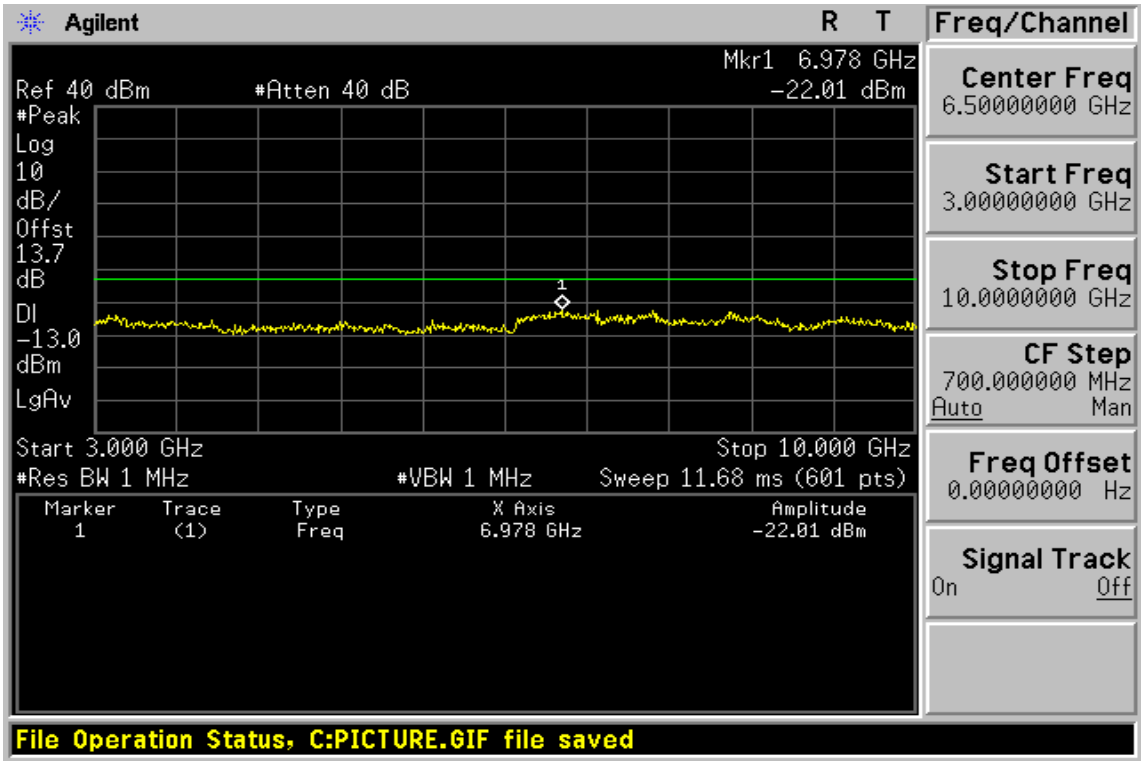


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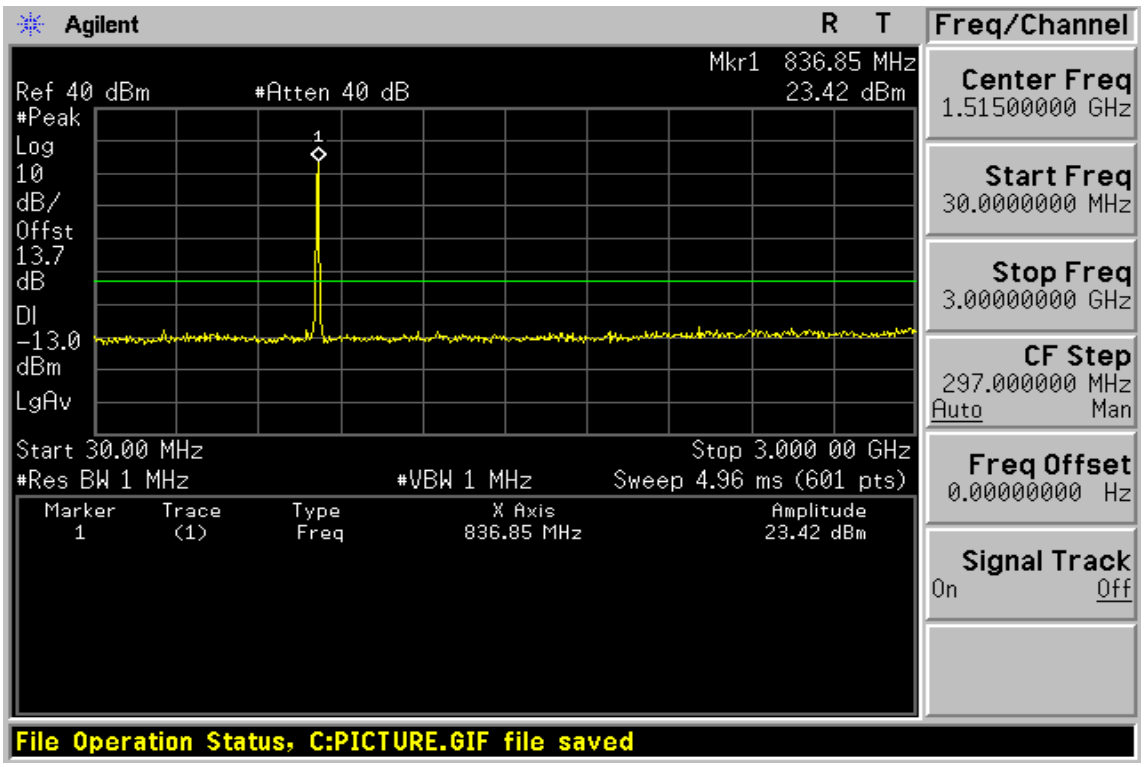
Figure 9-57: Out of Band emission at antenna terminals – HSDPA V Channel Mid



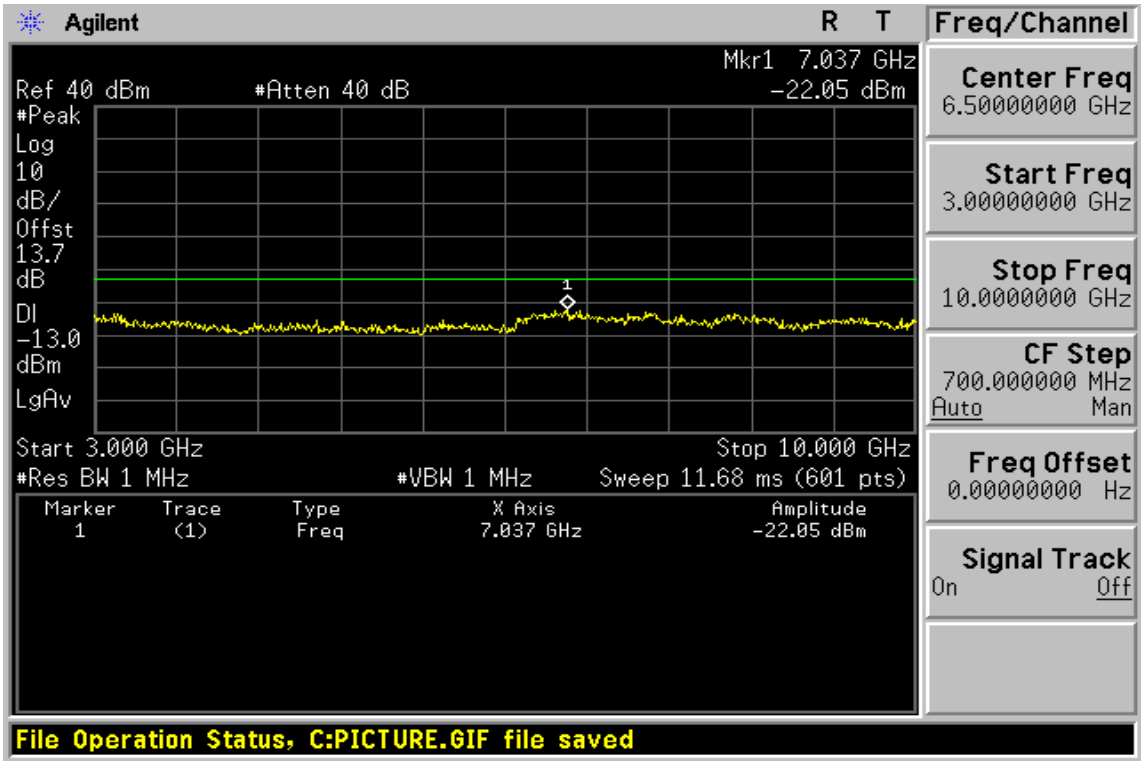


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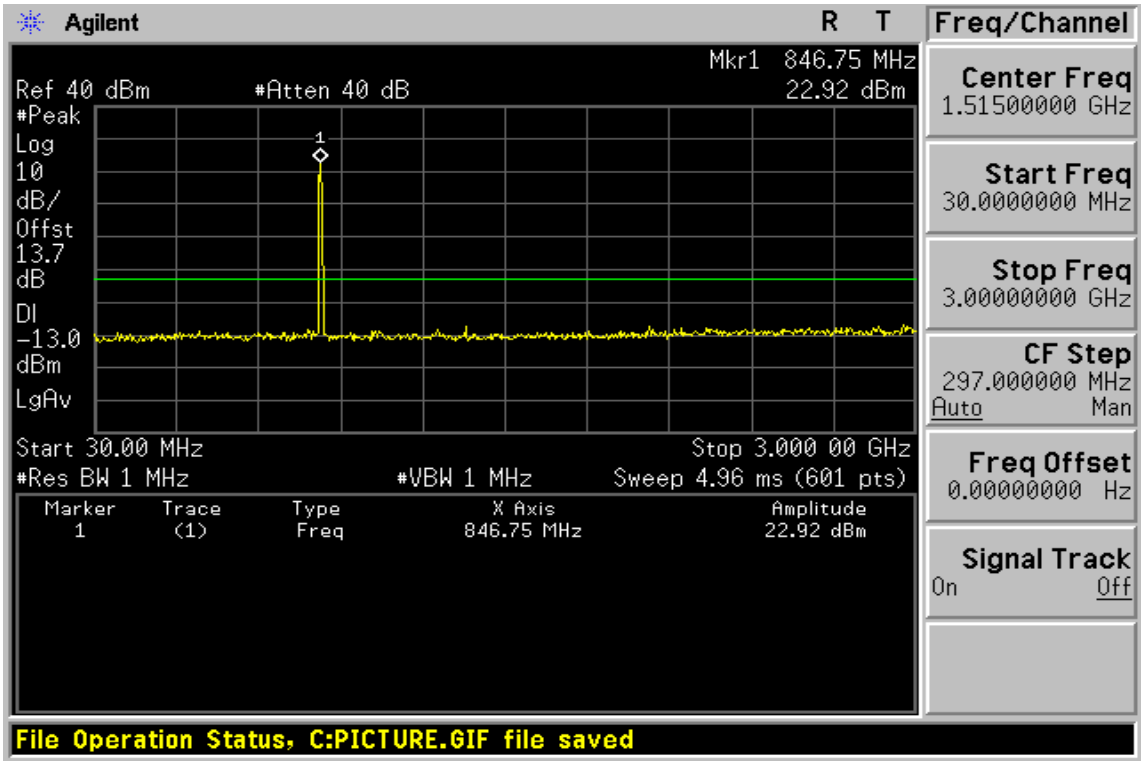
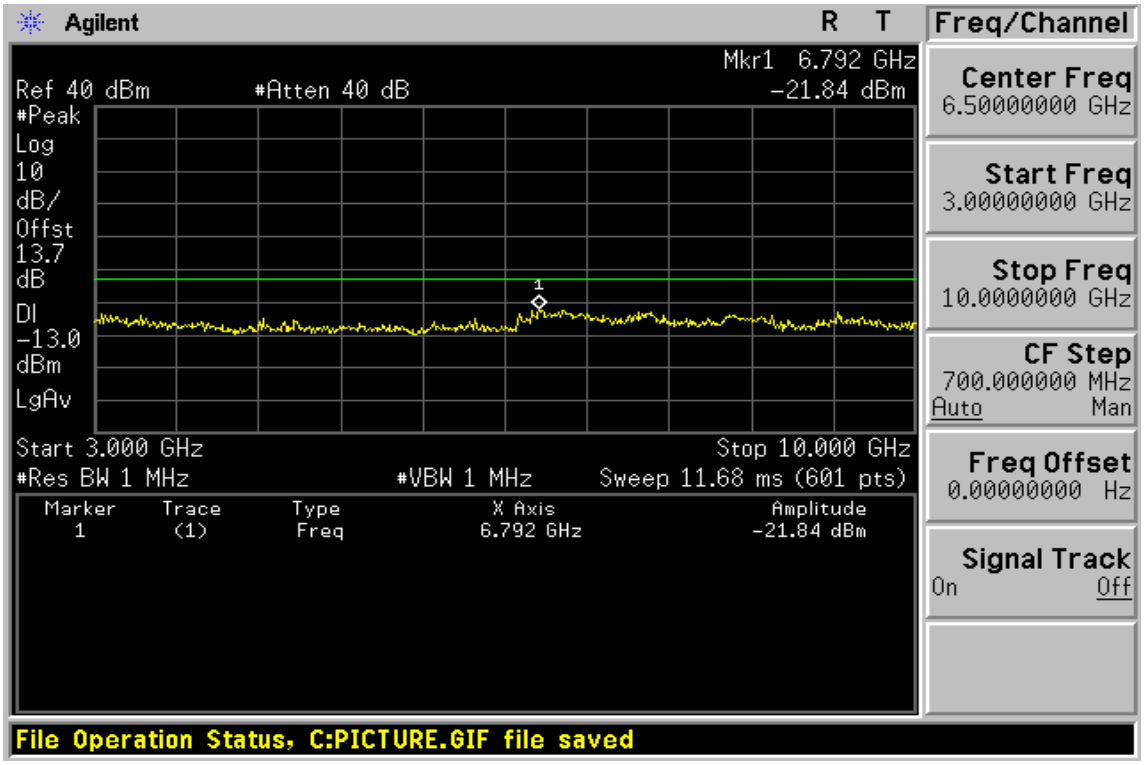
Figure 9-58: Out of Band emission at antenna terminals – HSDPA V Channel Highest





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Out of Band emission at antenna terminals – HSDPA V

Fundamental Frequency :826.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
6978.00	S	-22.01	-13.00	9.01
7437.60	H	---	-13.00	---
8264.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7037.00	S	-22.05	-13.00	9.05
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
6792.00	S	-21.84	-13.00	8.84
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-59: Band edge emission at antenna terminals – HSDPA V Channel Lowest

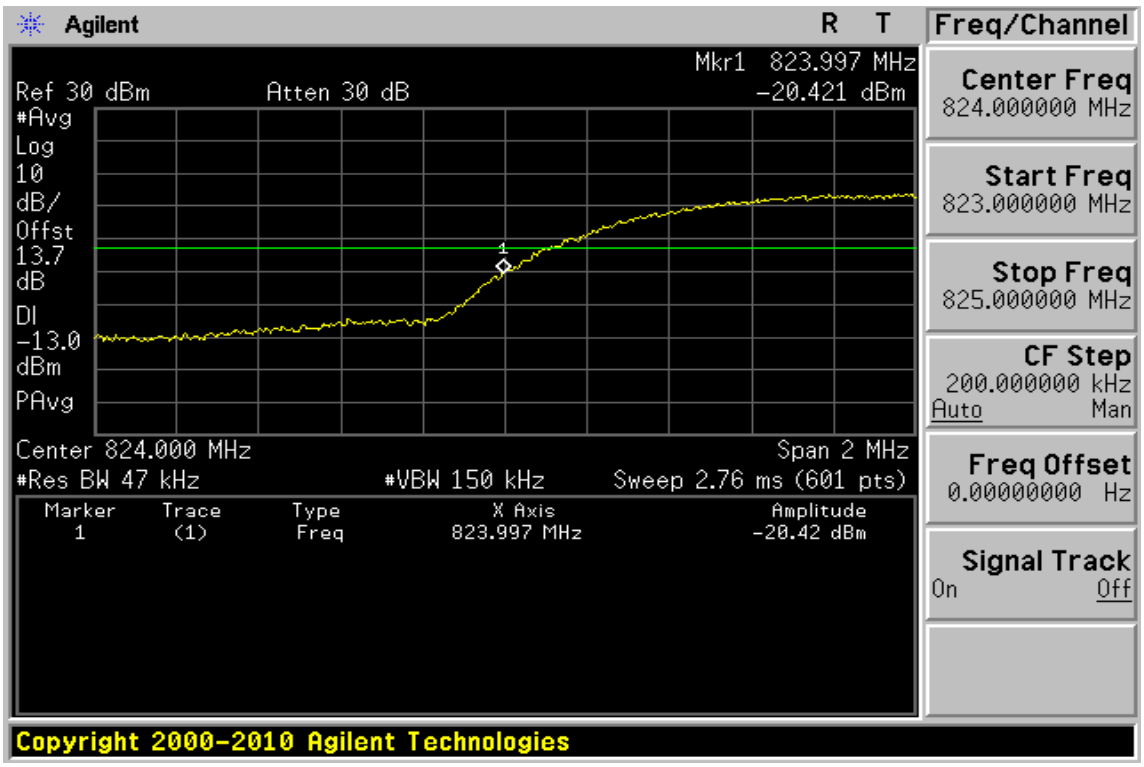
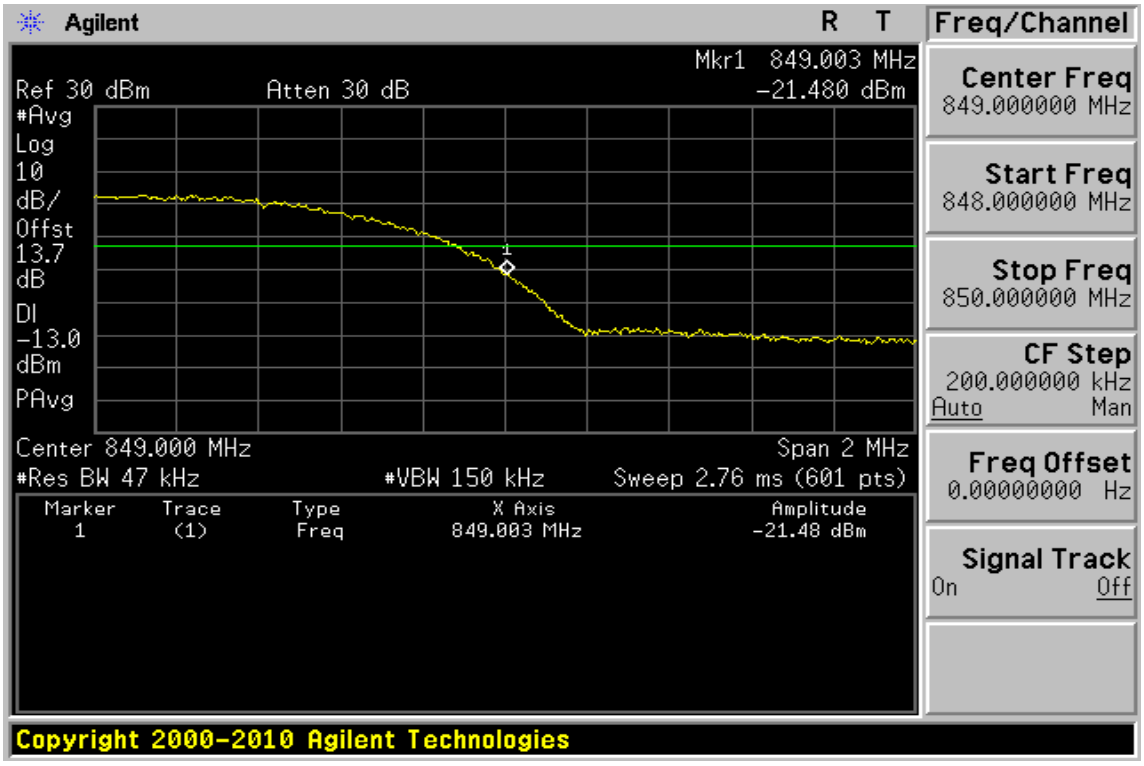


Figure 9-60: Band edge emission at antenna terminals – HSDPA V Channel Highest



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Band edge emission at antenna terminals – HSDPA V Low & High

Test Mode HSDPA V Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-20.42	-13.00	7.42
849.003	-21.48	-13.00	8.48

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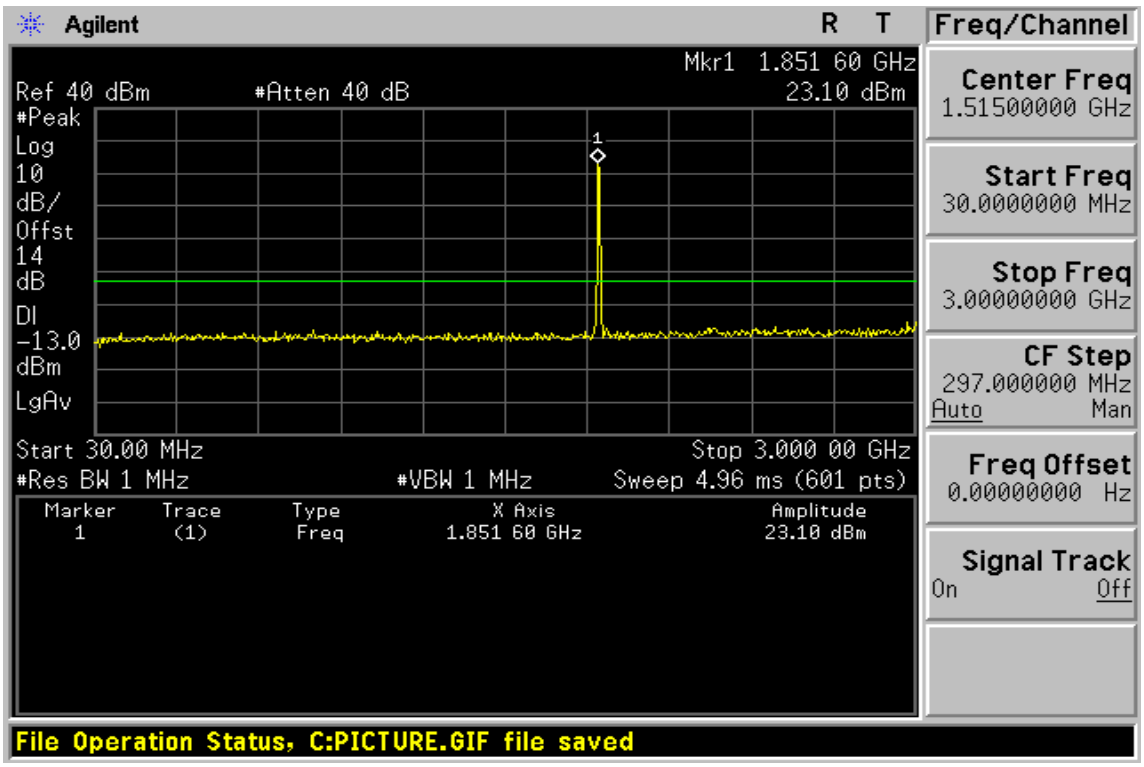
Figure 9-61: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



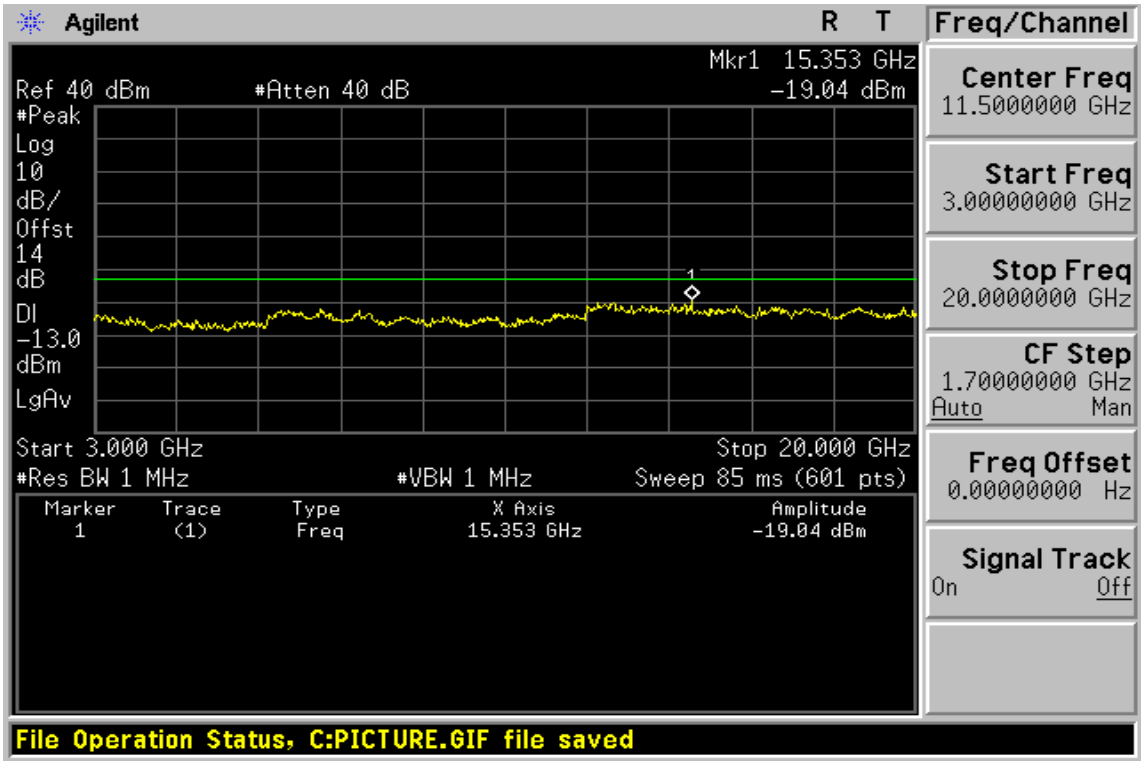


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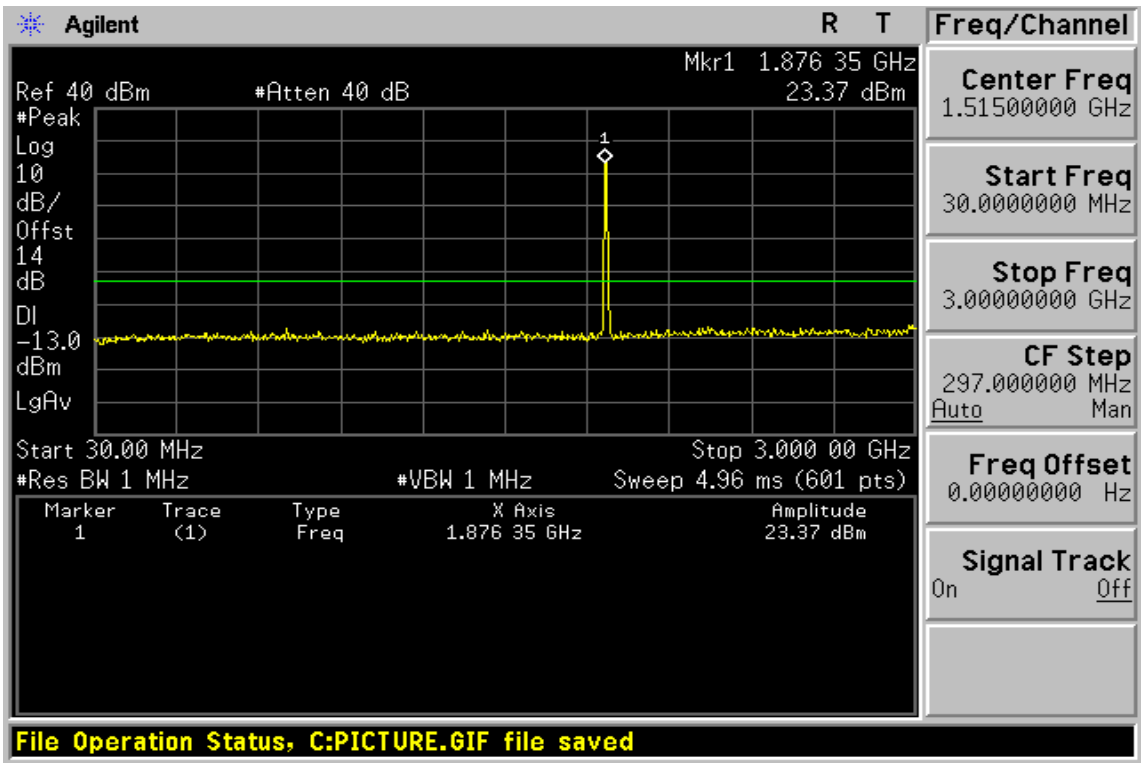
Figure 9-62: Out of Band emission at antenna terminals – HSUPA II Channel Mid



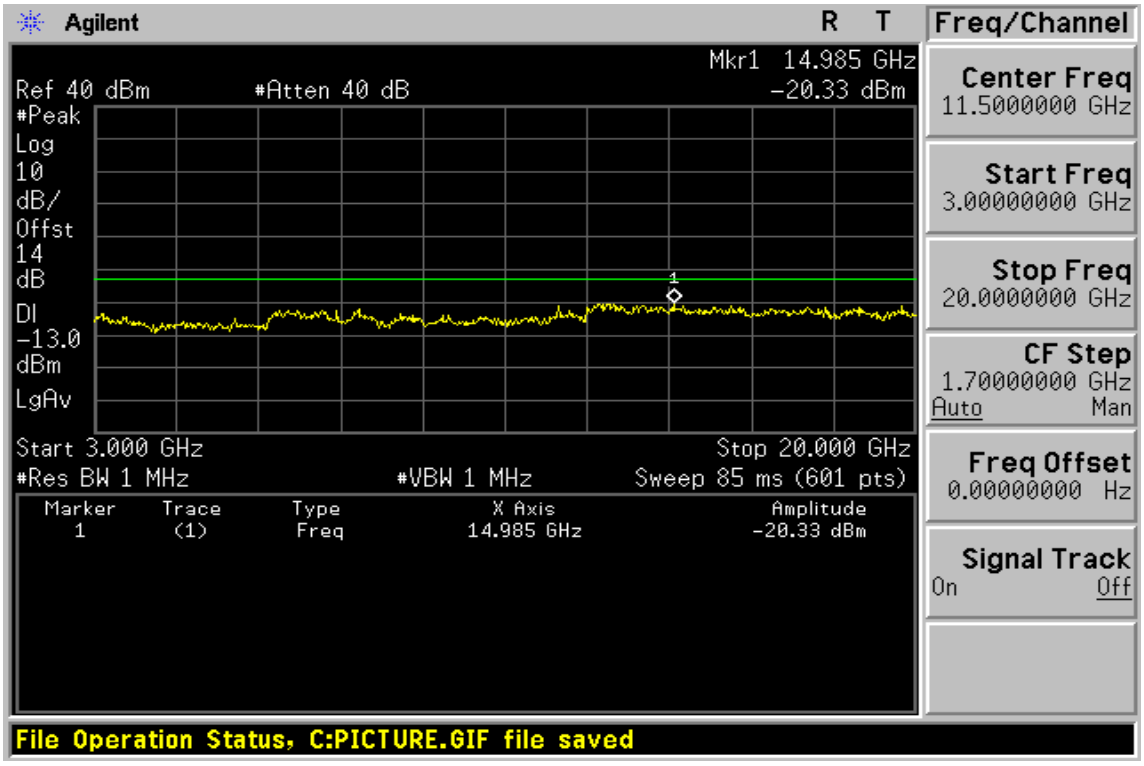


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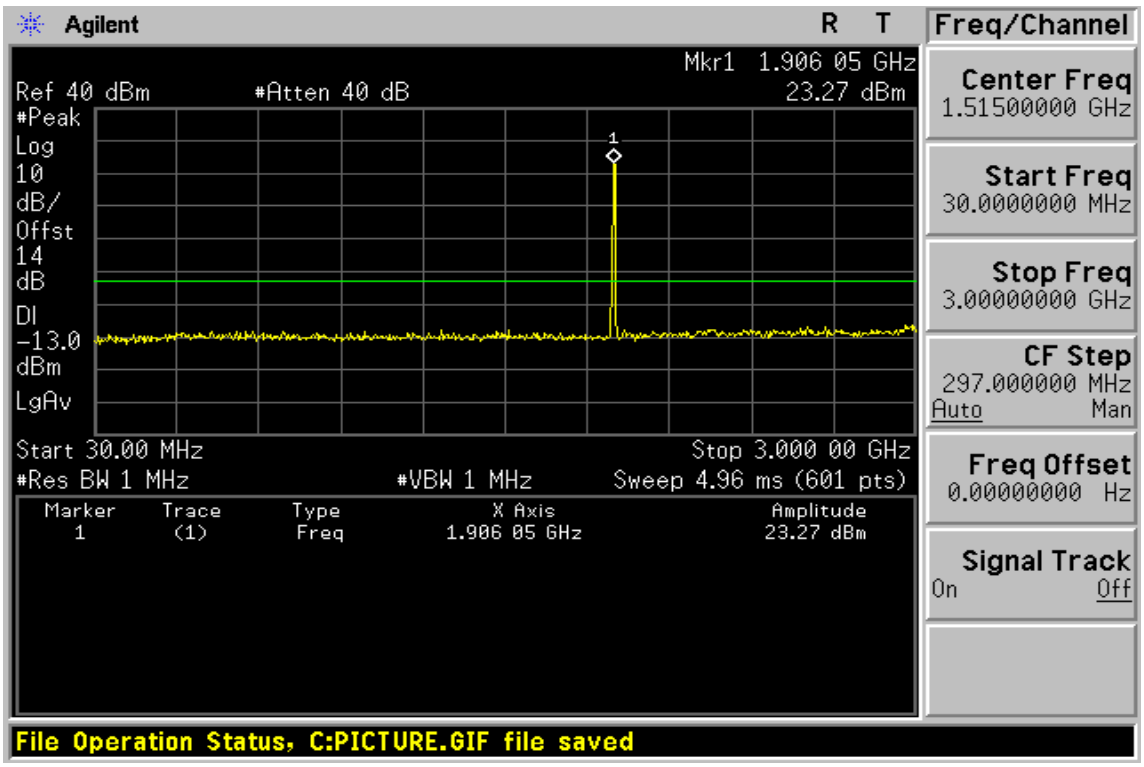
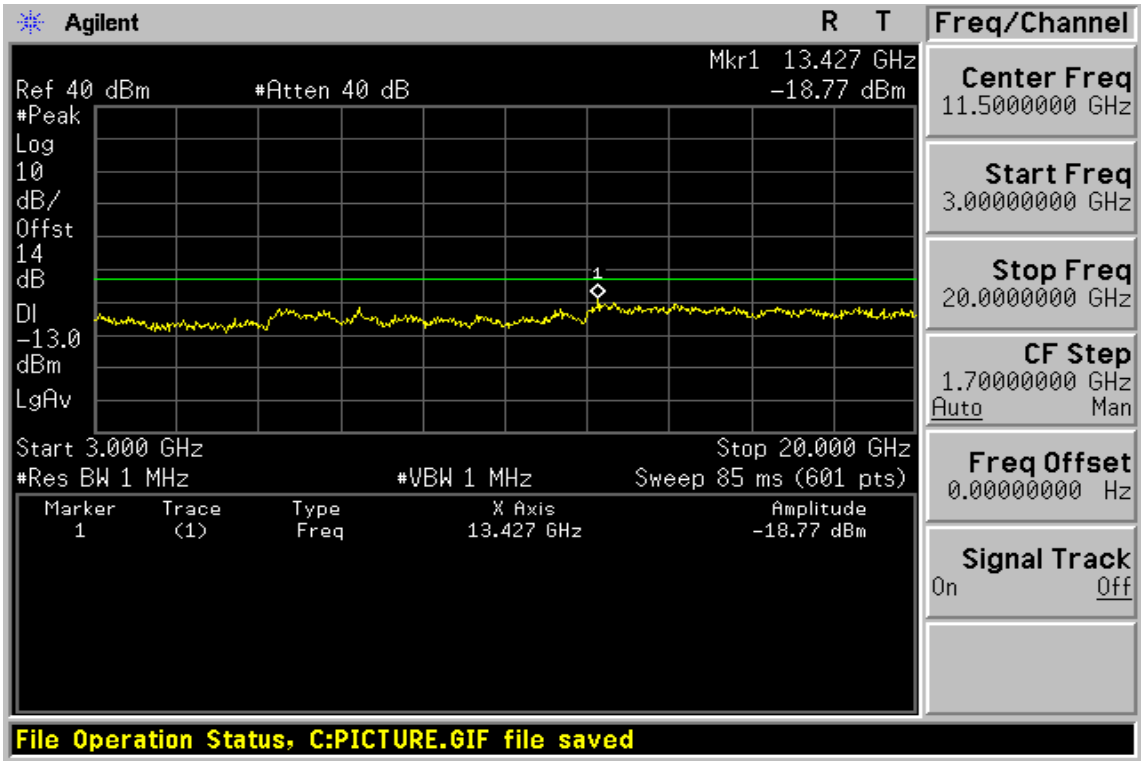
Figure 9-63: Out of Band emission at antenna terminals – HSUPA II Channel Highest





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Out of Band emission at antenna terminals – HSUPA II

Fundamental Frequency :1852.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
14819.20	H	---	-13.00	---
15353.00	S	-19.04	-13.00	6.04
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
14985.00	S	-20.33	-13.00	7.33
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
13427.00	S	-18.77	-13.00	5.77
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-64: Band edge emission at antenna terminals – HSUPA II Channel Lowest

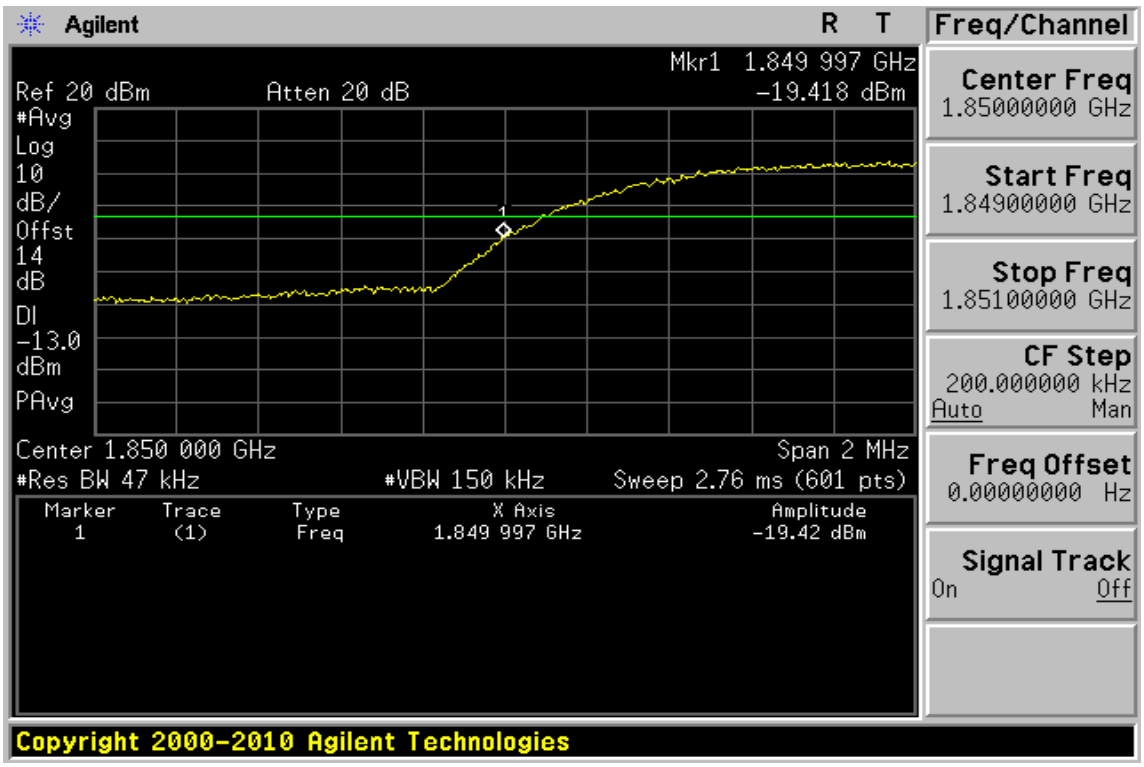
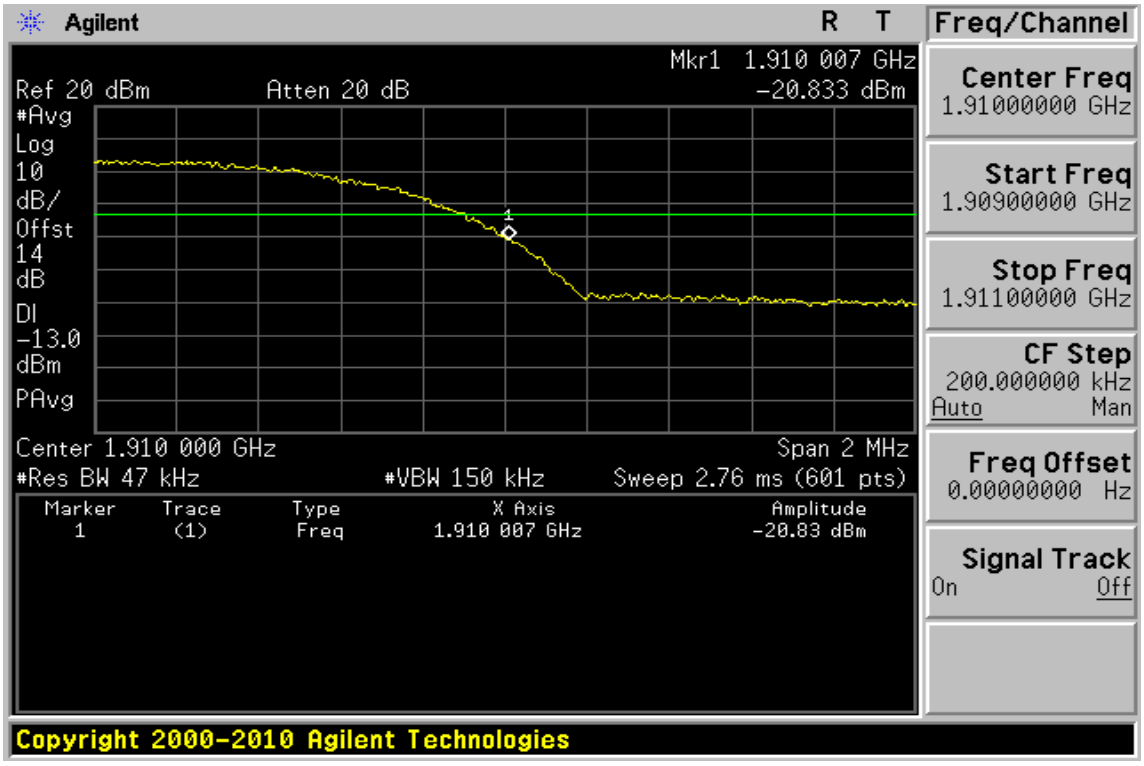


Figure 9-65: Band edge emission at antenna terminals – HSUPA II Channel Highest



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Band edge emission at antenna terminals – HSUPA II Low & High

Test Mode HSUPA II Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.997	-19.42	-13.00	6.42
1910.007	-20.83	-13.00	7.83

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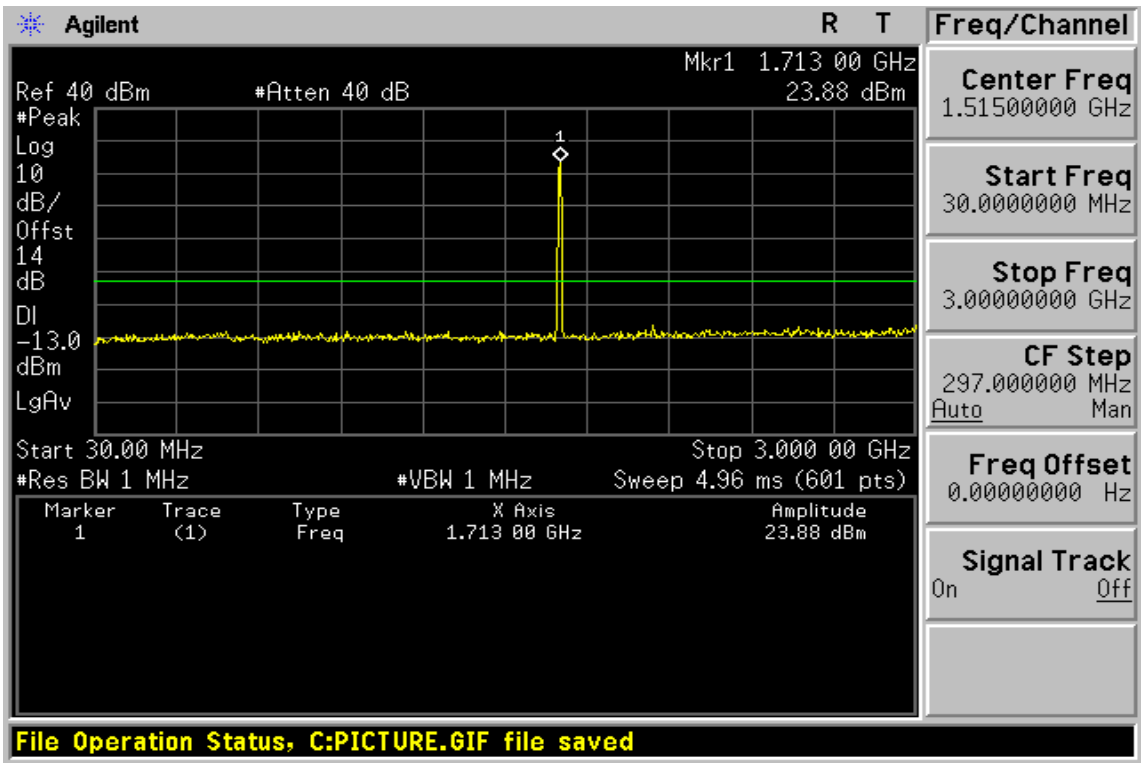
Figure 9-66: Out of Band emission at antenna terminals –HSUPA IV Channel Lowest



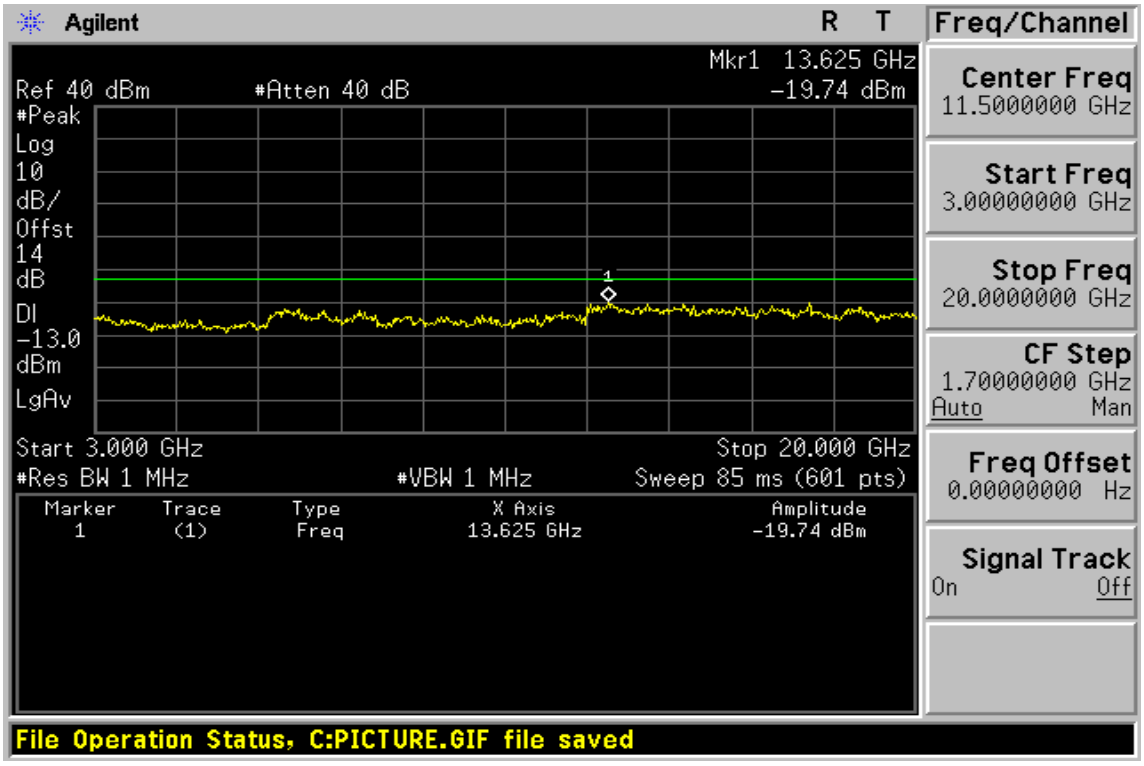


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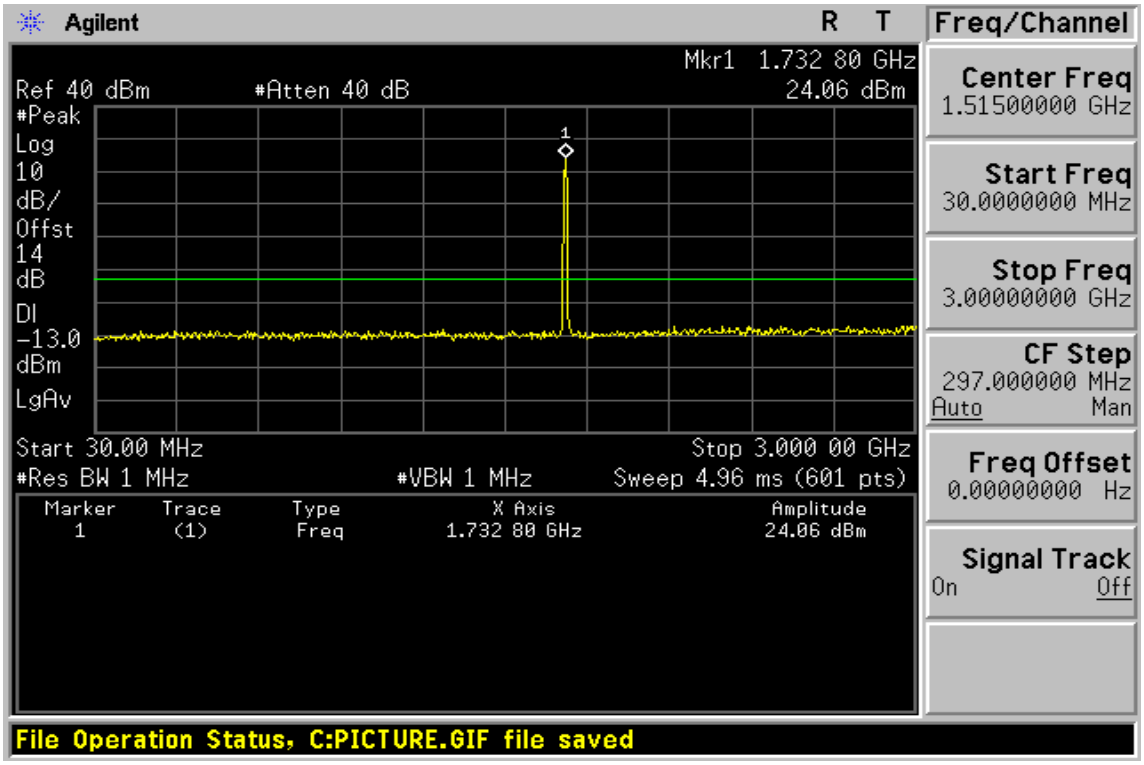
Figure 9-67: Out of Band emission at antenna terminals –HSUPA IV Channel Mid



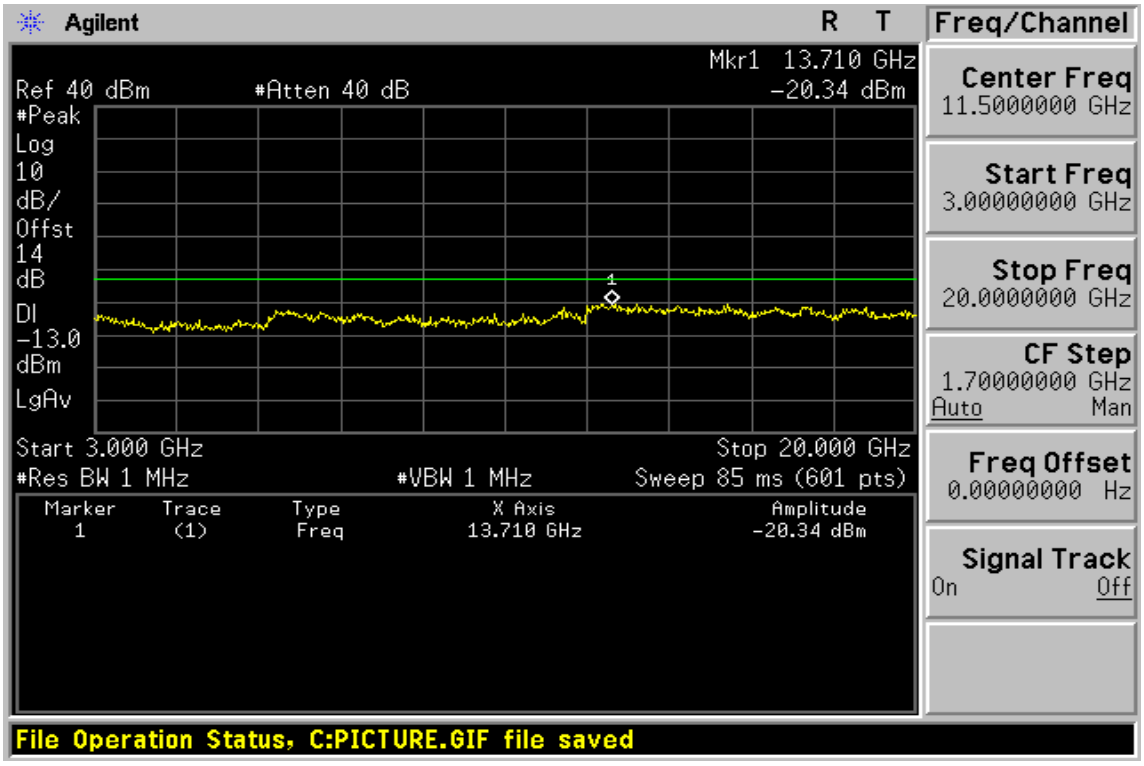


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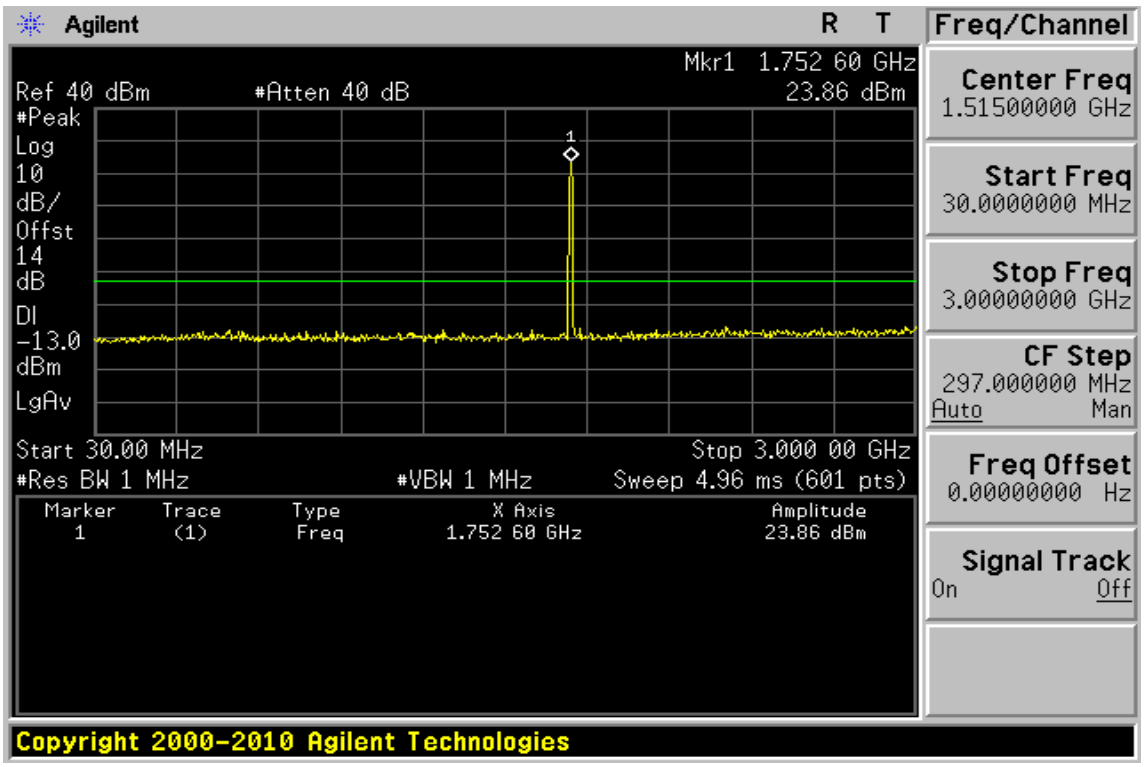
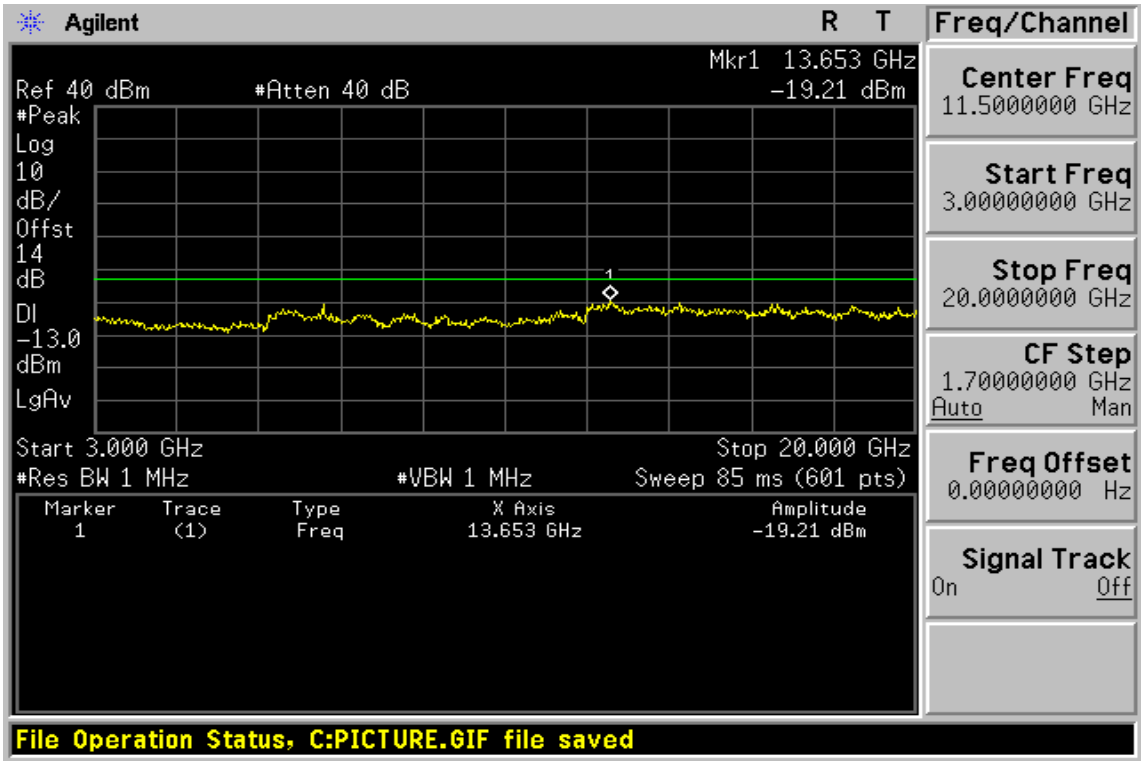
Figure 9-68: Out of Band emission at antenna terminals –HSUPA IV Channel Highest





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Out of Band emission at antenna terminals –HSUPA IV

Fundamental Frequency 1712.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3424.80	H	---	-13.00	---
5137.20	H	---	-13.00	---
6849.60	H	---	-13.00	---
8562.00	H	---	-13.00	---
10274.40	H	---	-13.00	---
11986.80	H	---	-13.00	---
13625.00	S	-19.74	-13.00	6.74
13699.20	H	---	-13.00	---
15411.60	H	---	-13.00	---
17124.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :1732.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3465.20	H	---	-13.00	---
5197.80	H	---	-13.00	---
6930.40	H	---	-13.00	---
8663.00	H	---	-13.00	---
10395.60	H	---	-13.00	---
12128.20	H	---	-13.00	---
13710.00	S	-20.34	-13.00	7.34
13860.80	H	---	-13.00	---
15593.40	H	---	-13.00	---
17326.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency 1752.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3505.20	H	---	-13.00	---
5257.80	H	---	-13.00	---
7010.40	H	---	-13.00	---
8763.00	H	---	-13.00	---
10515.60	H	---	-13.00	---
12268.20	H	---	-13.00	---
13653.00	S	-19.21	-13.00	6.21
14020.80	H	---	-13.00	---
15773.40	H	---	-13.00	---
17526.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-69: Band edge emission at antenna terminals –HSUPA IV Channel Lowest

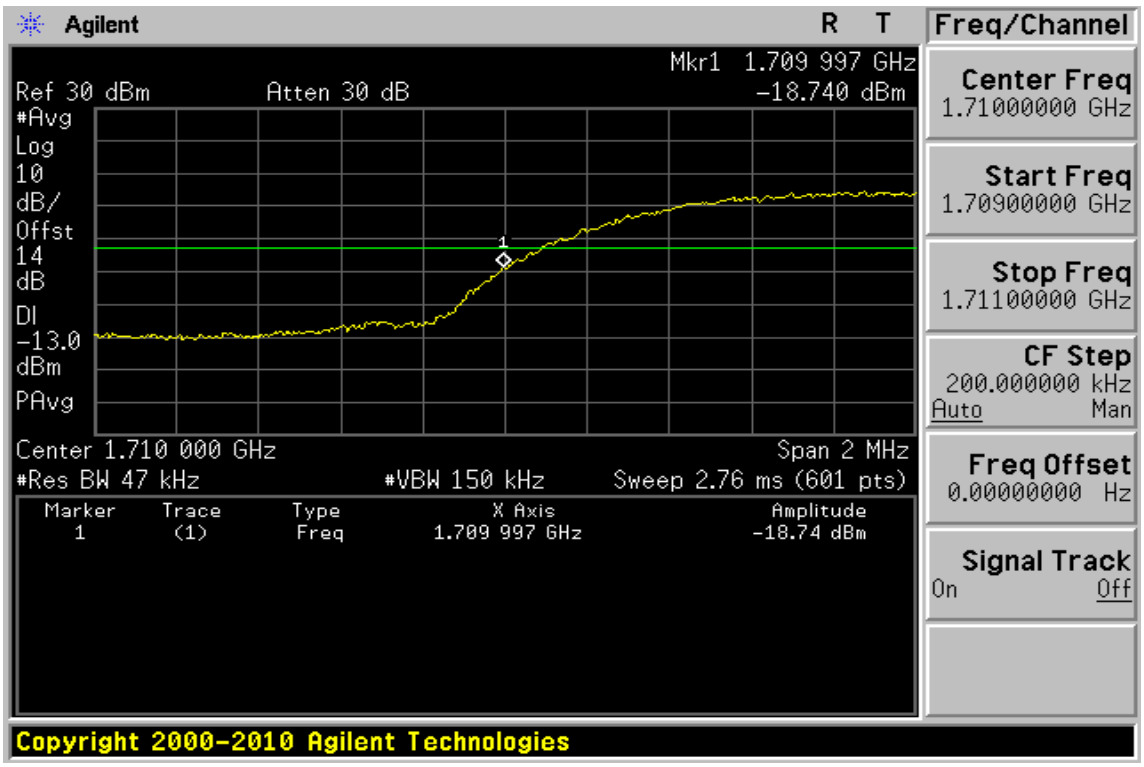

Figure 9-70: Band edge emission at antenna terminals –HSUPA IV Channel Highest

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Band edge emission at antenna terminals –HSUPA IV Low & High

Test Mode HSUPA IV Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.997	-18.74	-13.00	5.74
1755.003	-19.15	-13.00	6.15

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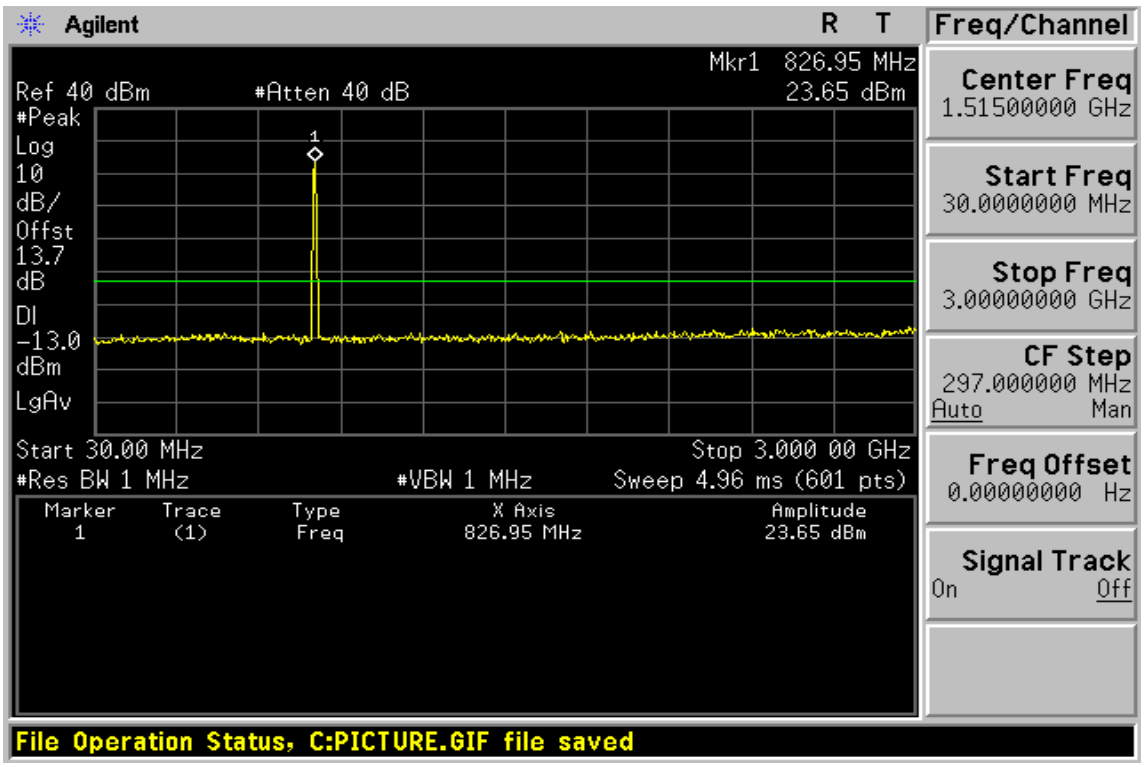
Figure 9-71: Out of Band emission at antenna terminals – HSUPA V Channel Lowest



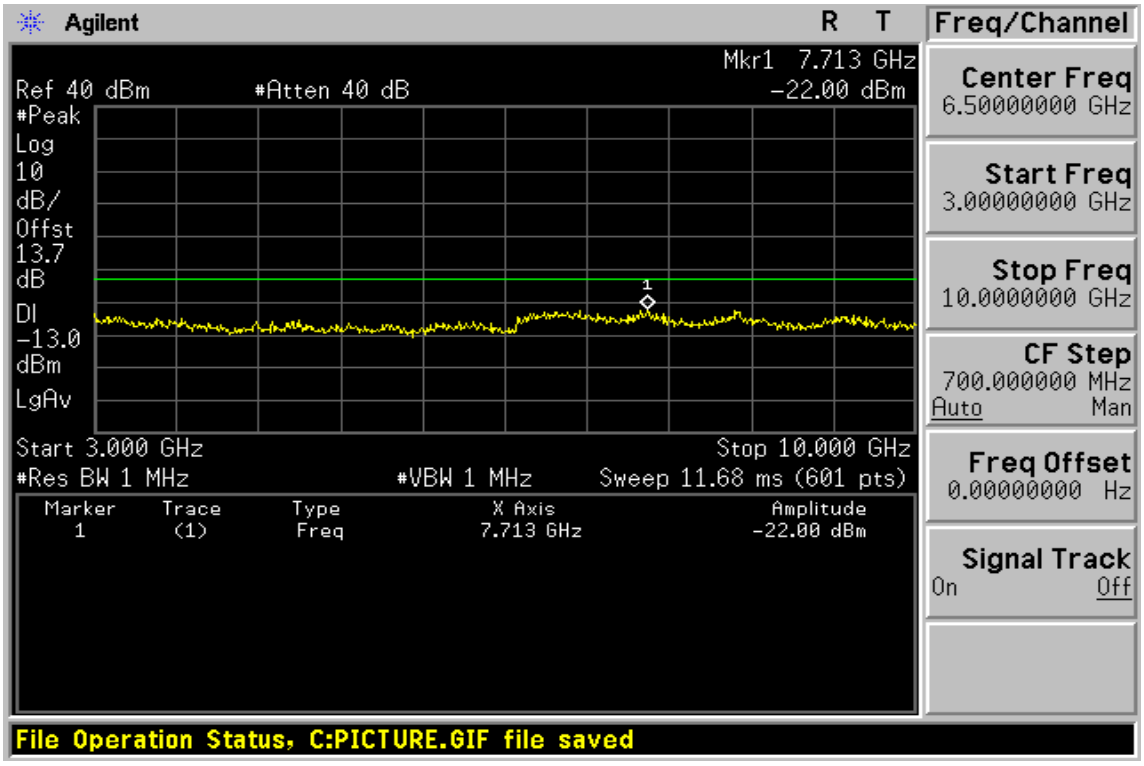


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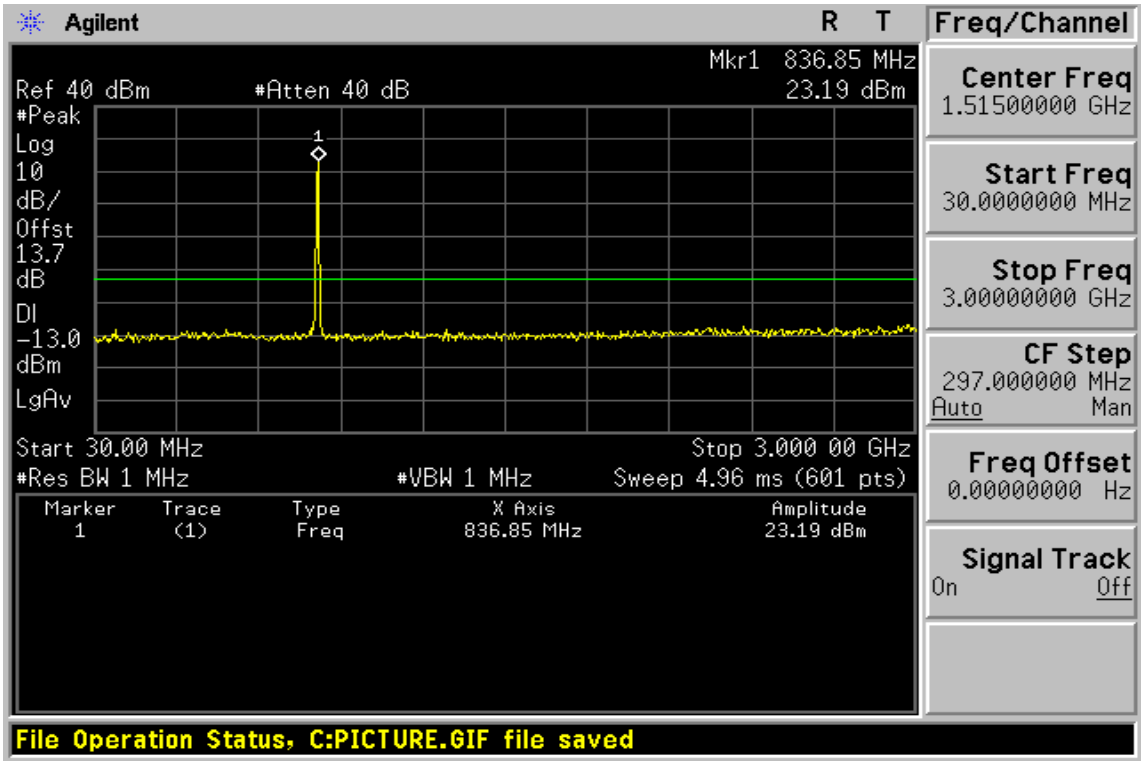
Figure 9-72: Out of Band emission at antenna terminals – HSUPA V Channel Mid



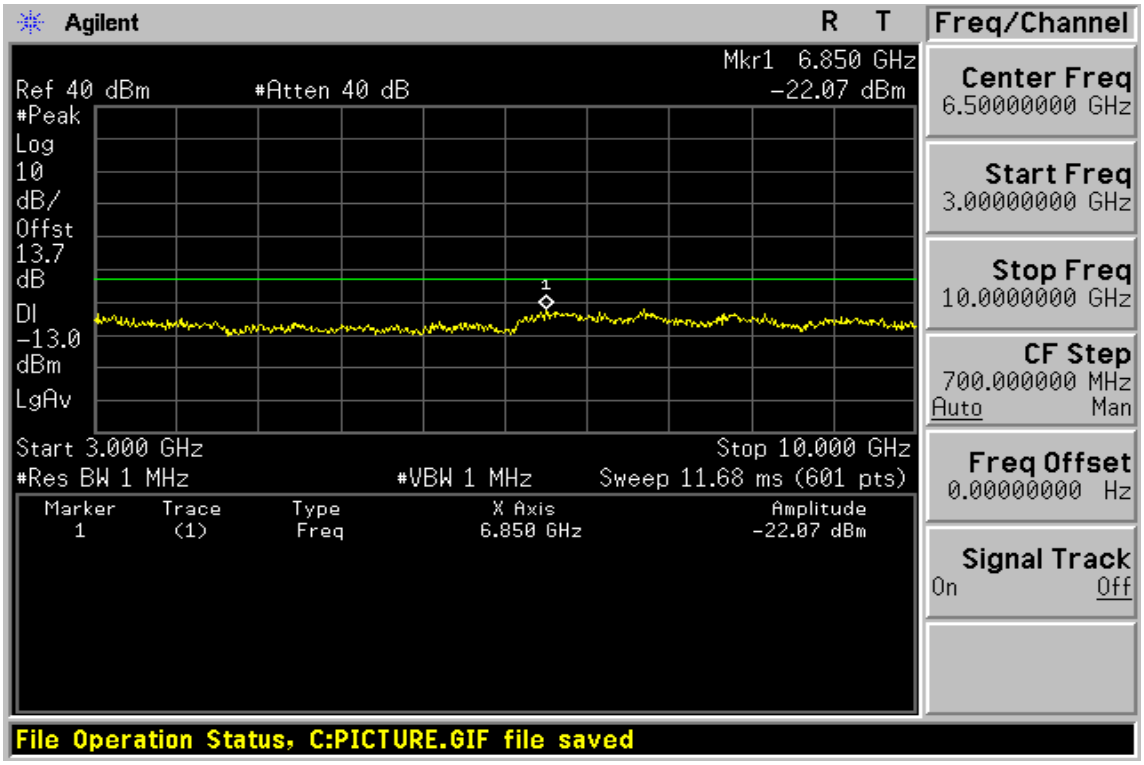


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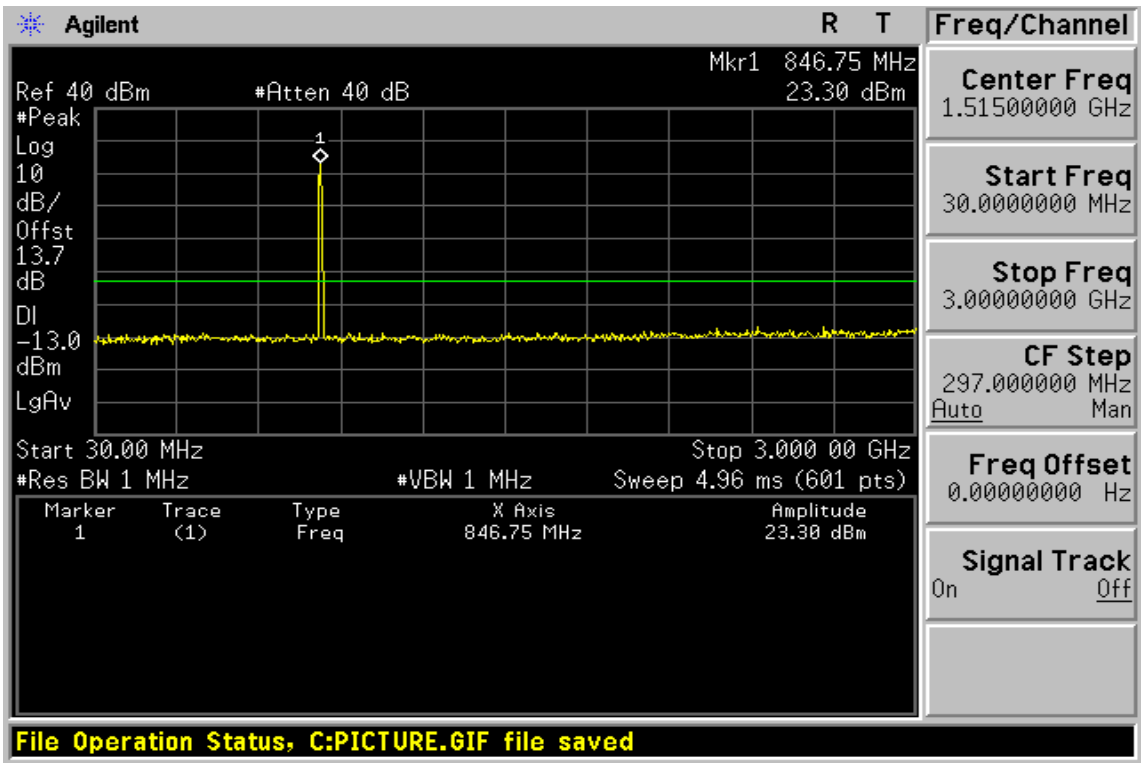
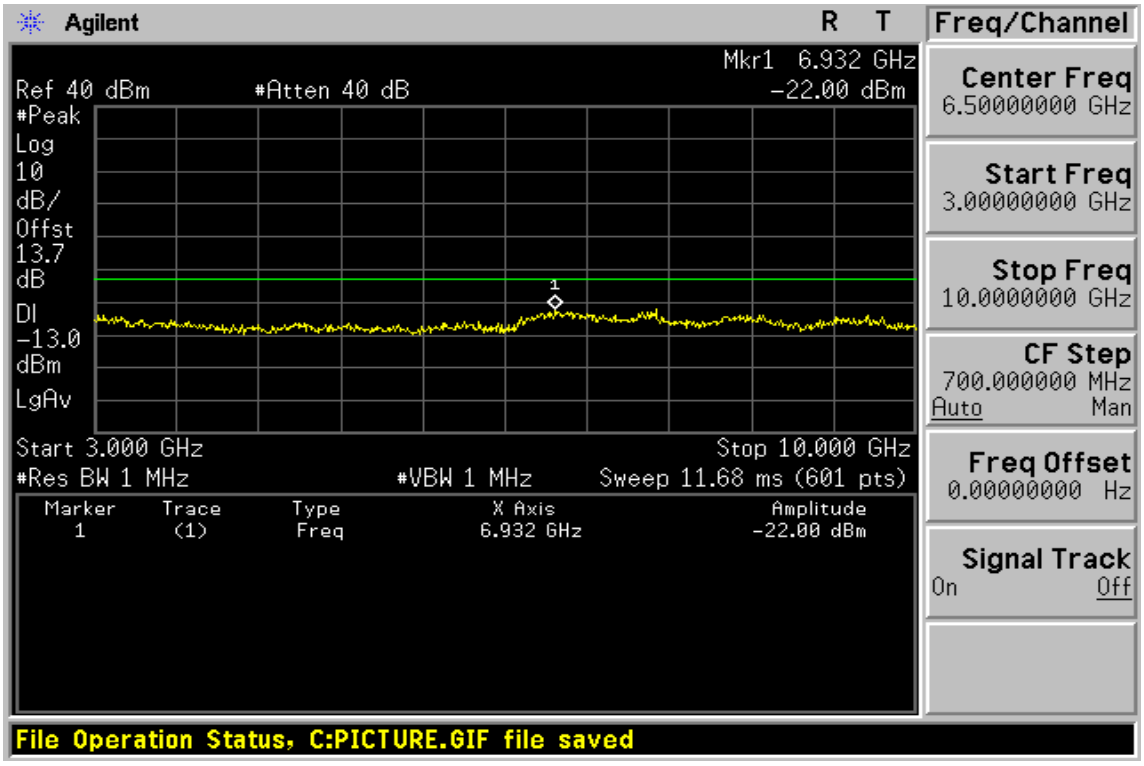
Figure 9-73: Out of Band emission at antenna terminals – HSUPA V Channel Highest





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Out of Band emission at antenna terminals – HSUPA V

Fundamental Frequency :826.4 MHz Engineer :Marcus
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
7437.60	H	---	-13.00	---
7713.00	S	-22.00	-13.00	9.00
8264.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Marcus
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
6850.00	S	-22.07	-13.00	9.07
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Marcus
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
6932.00	S	-22	-13.00	9.00
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Figure 9-74: Band edge emission at antenna terminals – HSUPA V Channel Lowest

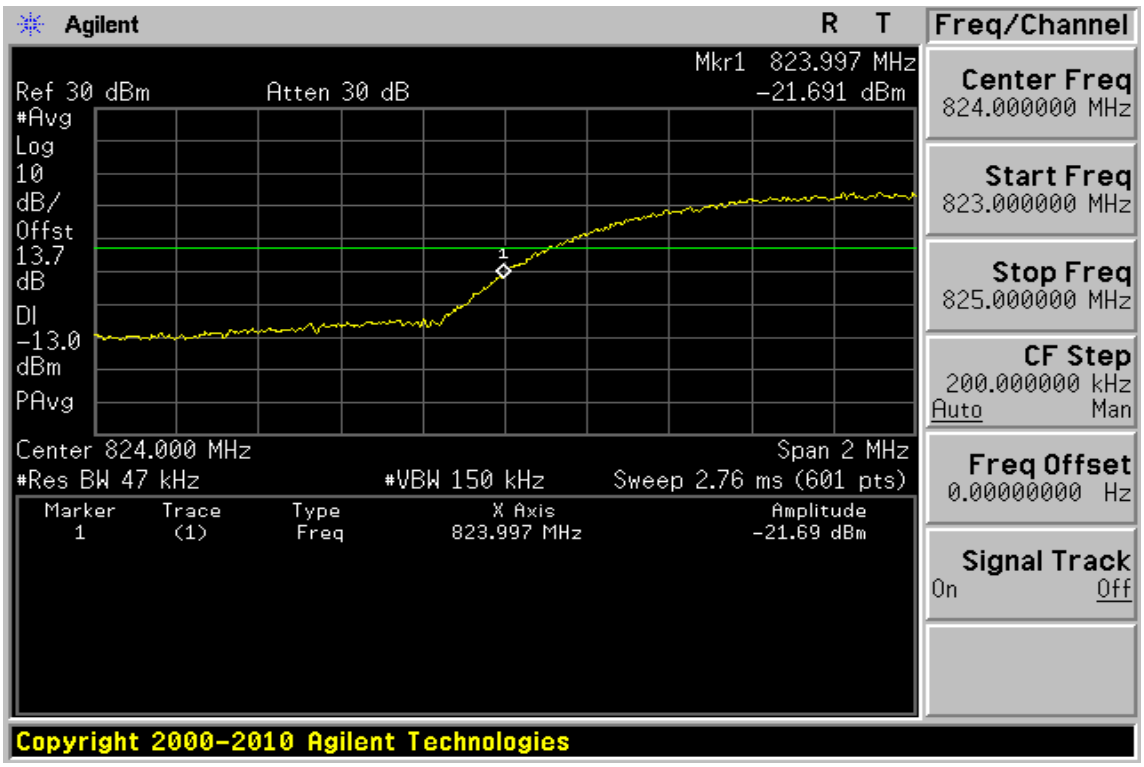

Figure 9-75: Band edge emission at antenna terminals – HSUPA V Channel Highest

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Band edge emission at antenna terminals – HSUPA V Low & High

Test Mode HSUPA V Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.997	-21.69	-13.00	8.69
849.003	-21.51	-13.00	8.51

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