

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: NB105 NGFF WWAN MODULE

Brand Name: nVIDIA

Model No.: NB105-N

Model Difference: N/A

FCC ID: VOB-E1729

Report No.: EH/2013/90026

Issue Date: Dec. 25, 2013

FCC Rule Part: 2 , 22H & 24E & 27 C & L

Prepared for:
NVIDIA Corporation
2701 San Tomas Expressway, Santa Clara,
California, United States 95050

Prepared by:
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VERIFICATION OF COMPLIANCE

Applicant: NVIDIA Corporation
2701 San Tomas Expressway, Santa Clara, California, United States 95050

Product Name: NB105 NGFF WWAN MODULE

Brand Name: nVIDIA

Model No.: NB105-N

Model Difference: N/A

FCC ID: VOB-E1729

File Number: EH/2013/90026

Date of test: Oct. 31, 2013 ~ Dec. 19, 2013

Date of EUT Received: Oct. 31, 2013

We hereby certify that:

The above equipment was tested by SGS Lionwan 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.

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

Test By:**Date:**

Dec. 25, 2013

*Marcus Tseng / Engineer***Prepared By:****Date:**

Dec. 25, 2013

*Violetta Tang / Clerk***Approved By:****Date:**

Dec. 25, 2013

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Dec. 25, 2013	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	NB105 NGFF WWAN MODULE
Brand Name:	nVIDIA
Model No.:	NB105-N
Model difference:	N/A
Hardware Version:	600-81729-3221-500
Software Version:	E1729_4.04_0.4
Power Supply:	3.7Vdc from Power Supply

GSM / GPRS / WCDMA / LTE:

Cellular Phone Standards Frequency Range:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	32 dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	26 dBm
	GSM\GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	29 dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	25 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	23 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz - 846.6MHz	23 dBm
	1.4MHz BW LTE-Band 2	1850.7MHz– 1909.3MHz	23 dBm
	3MHz BW LTE-Band 2	1851.5MHz– 1908.5MHz	23 dBm
	5MHz BW LTE-Band 2	1852.5MHz– 1907.5MHz	23 dBm
	10MHz BW LTE-Band 2	1855.0MHz– 1905.0MHz	23 dBm
	15MHz BW LTE-Band 2	1857.5MHz– 1902.5MHz	23 dBm
	20MHz BW LTE-Band 2	1860.0MHz– 1900.0MHz	23 dBm

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Cellular Phone Standards Frequency Range:	Operating Frequency		Rated Power
	1.4MHz BW LTE-Band 4	1710.7MHz – 1754.3MHz	23 dBm
	3MHz BW LTE-Band 4	1711.5MHz – 1753.5MHz	23 dBm
	5MHz BW LTE-Band 4	1712.5MHz – 1752.5MHz	23 dBm
	10MHz BW LTE-Band 4	1715MHz – 1750MHz	23 dBm
	15MHz BW LTE-Band 4	1717.5MHz – 1747.5MHz	23 dBm
	20MHz BW LTE-Band 4	1720MHz – 1745MHz	23 dBm
	1.4MHz BW LTE-Band 5	824.7MHz – 848.3MHz	23 dBm
	3MHz BW LTE-Band 5	825.5MHz – 847.5MHz	23 dBm
	5MHz BW LTE-Band 5	826.5MHz – 846.5MHz	23 dBm
	10MHz BW LTE-Band 5	829.0MHz – 844.0MHz	23 dBm
	5MHz BW LTE-Band 7	2502.5MHz – 2567.5MHz	23 dBm
	10MHz BW LTE-Band 7	2505.0MHz – 2565.0MHz	23 dBm
	15MHz BW LTE-Band 7	2507.5MHz – 2562.5MHz	23 dBm
	20MHz BW LTE-Band 7	2510.0MHz – 2560MHz	23 dBm
	5MHz BW LTE-Band 17	706.5MHz – 713.5MHz	23 dBm
	10MHz BW LTE-Band 17	709.0MHz – 711.0MHz	23 dBm
IMEI:	004402351178664, 004402351178623, 004402351178607		

This test report applies for 850 /1900 GSM/GPRS/EDGE, WCDMA / HSDPA / HSUPA Band II/V and LTE Band 2, Band 4, Band 5, Band 7 and Band 17.

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7Vdc	240
GSM 1900	3.7Vdc	220
GPRS 850	3.7Vdc	230
GPRS 1900	3.7Vdc	230
EDGE 850	3.7Vdc	200
EDGE 1900	3.7Vdc	210
WCDMA B2	3.7Vdc	580
WCDMA B5	3.7Vdc	510
HSUPA B2	3.7Vdc	560
HSUPA B5	3.7Vdc	480
HSDPA B2	3.7Vdc	570
HSDPA B5	3.7Vdc	490
LTE Band 2_1.4M QPSK	3.7Vdc	616
LTE Band 2_1.4M 16QAM	3.7Vdc	601
LTE Band 2_3M QPSK	3.7Vdc	534
LTE Band 2_3M 16QAM	3.7Vdc	569
LTE Band 2_5M QPSK	3.7Vdc	554
LTE Band 2_5M 16QAM	3.7Vdc	536
LTE Band 2_10M QPSK	3.7Vdc	546
LTE Band 2_10M 16QAM	3.7Vdc	571
LTE Band 2_15M QPSK	3.7Vdc	611
LTE Band 2_15M 16QAM	3.7Vdc	609
LTE Band 2_20M QPSK	3.7Vdc	564
LTE Band 2_20M 16QAM	3.7Vdc	574

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	3.7Vdc	589
LTE Band 4_1.4M 16QAM	3.7Vdc	523
LTE Band 4_3M QPSK	3.7Vdc	542
LTE Band 4_3M 16QAM	3.7Vdc	563
LTE Band 4_5M QPSK	3.7Vdc	549
LTE Band 4_5M 16QAM	3.7Vdc	596
LTE Band 4_10M QPSK	3.7Vdc	562
LTE Band 4_10M 16QAM	3.7Vdc	514
LTE Band 4_15M QPSK	3.7Vdc	522
LTE Band 4_15M 16QAM	3.7Vdc	601
LTE Band 4_20M QPSK	3.7Vdc	623
LTE Band 4_20M 16QAM	3.7Vdc	641
LTE Band 5_1.4M QPSK	3.7Vdc	538
LTE Band 5_1.4M 16QAM	3.7Vdc	516
LTE Band 5_3M QPSK	3.7Vdc	526
LTE Band 5_3M 16QAM	3.7Vdc	513
LTE Band 5_5M QPSK	3.7Vdc	503
LTE Band 5_5M 16QAM	3.7Vdc	541
LTE Band 5_10M QPSK	3.7Vdc	532
LTE Band 5_10M 16QAM	3.7Vdc	519

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	3.7Vdc	766
LTE Band 7_5M 16QAM	3.7Vdc	713
LTE Band 7_10M QPSK	3.7Vdc	722
LTE Band 7_10M 16QAM	3.7Vdc	705
LTE Band 7_15M QPSK	3.7Vdc	746
LTE Band 7_15M 16QAM	3.7Vdc	742
LTE Band 7_20M QPSK	3.7Vdc	696
LTE Band 7_20M 16QAM	3.7Vdc	664
LTE Band 17_5M QPSK	3.7Vdc	548
LTE Band 17_5M 16QAM	3.7Vdc	491
LTE Band 17_10M QPSK	3.7Vdc	551
LTE Band 17_10M 16QAM	3.7Vdc	502

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

This submittal(s) (test report) is intended for **FCC ID: VOB-E1729** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Section Part 27 subpart C of the FCC CFR 47 Rules.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

The setting as describes in TS 151 010-1, TS 134 121-1, TS136 521-1 is followed to apply the setting on the simulator in order to simulate the environment of respective wireless technology.

The Output power Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA / HSPA / LTE) 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), Signal Bandwidth, and Spurious Emission.

1.3. Test Facility

The measurement facilities used to collect the 3m/10m 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 24803 which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number (2.948 listed) is: 990257

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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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 utilized in base-station simulator to fixate the Tx frequency of default test, and establish the communication for the purpose of the measurements.

2.3. Test Procedure

2.3.1 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

N/A, for the given application that powered by DC

2.3.2 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.

2.3.3 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.

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2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
Spectrum Analyzer	Agilent	E4440A	US41160416	03/15/2013	03/14/2014
Radio Communication Analyzer	R & S	CMU200	102189	06/17/2013	06/16/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2013	05/05/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014
DC Power Supply	Agilent	E3640A	KR93300208	07/24/2013	07/23/2014

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014
Spectrum Analyzer	R&S	FSV-30	101398	10/22/2013	10/21/2014
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/24/2011	11/23/2013
Horn antenna	ETS.LINDGREN	3117	123995	05/31/2013	05/30/2014
Horn antenna	ETS.LINDGREN	3117	123991	01/21/2013	01/20/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/16/2014
Horn Antenna	Schwarzbeck	BBHA9170	185	07/19/2013	07/18/2014
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	01/29/2013	01/28/2014
Signal Generator	R&S	SMR40	100210	02/02/2012	02/01/2014
Signal Generator	Agilent	E4438C	MY45093613	07/30/2013	07/29/2014
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014

Please refer to next page for the plots.

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2013	02/27/2014
Radio Communication Analyzer	R & S	CMU200	102189	06/17/2013	06/16/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
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	01/04/2013	01/03/2014
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/04/2013	01/03/2014
Filter 800-1000	Micro-Tronics	EWT	M2	02/28/2013	02/28/2014
Filter 1800-2000	Micro-Tronics	EWT	M2	02/28/2013	02/28/2014
Filter 1700-1800	Micro-Tronics	BRC15751	001	02/28/2013	02/28/2014
High Pass Filter 2G~18G MHz	WI	WHK2.0/18G-10 SS	440	10/30/2013	10/29/2014
Band Reject Filter 2500~2570	WI	WRC JV2300/2700 -2240/2760-40SS	1	10/30/2013	10/29/2014
Band Reject Filter 704~716	WI	WRCGV659/920-635/980-40/12SS	1	10/30/2013	10/29/2014
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2013	02/28/2014
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2013	02/28/2014
3m Site NSA	SGS	966 chamber	N/A	07/15/2013	07/14/2014

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/27/2013	11/26/2014

N.C.R denotes non-calibrated require.

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

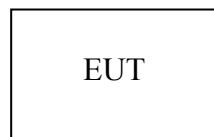
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2.5. Configuration of Tested System

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



Remote Side



Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(c)(9) §27.50(d)(4) §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) §27.53(c)(2) §27.50(c)(5) §27.53(h) §27.53(m)(4)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50	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	28.19	ERP	0.659
GSM 1900 Band	26.54	EIRP	0.451
GPRS 850 Band	28.08	ERP	0.643
GPRS 1900 Band	25.79	EIRP	0.379
EDGE 850 Band	27.39	ERP	0.548
EDGE 1900 Band	26.13	EIRP	0.410
WCDMA Band II	23.58	EIRP	0.228
WCDMA Band V	24.17	ERP	0.261
HSDPA Band II	25.43	EIRP	0.349
HSDPA Band V	24.45	ERP	0.279
HSUPA Band II	24.68	EIRP	0.294
HSUPA Band V	24.91	ERP	0.310
LTE Band 2/1.4MMz /QPSK RB 1 Offset 0	30.61	EIRP	1.151
LTE Band 2/1.4MMz /QPSK RB 1 Offset 5	30.54	EIRP	1.132
LTE Band 2/1.4MMz /16QAM RB 1 Offset 0	30.70	EIRP	1.175
LTE Band 2/1.4MMz /16QAM RB 1 Offset 5	30.74	EIRP	1.186
LTE Band 2/3MMz /QPSK RB 1 Offset 0	30.47	EIRP	1.114
LTE Band 2/3MMz /QPSK RB 1 Offset 14	30.34	EIRP	1.081
LTE Band 2/3MMz /16QAM RB 1 Offset 0	30.35	EIRP	1.084
LTE Band 2/3MMz /16QAM RB 1 Offset 14	30.44	EIRP	1.107
LTE Band 2/5MMz /QPSK RB 1 Offset 0	29.53	EIRP	0.897
LTE Band 2/5MMz /QPSK RB 1 Offset 24	29.07	EIRP	0.807
LTE Band 2/5MMz /16QAM RB 1 Offset 0	30.19	EIRP	1.045
LTE Band 2/5MMz /16QAM RB 1 Offset 24	30.19	EIRP	1.045
LTE Band 2/10MMz /QPSK RB 1 Offset 0	28.75	EIRP	0.750
LTE Band 2/10MMz /QPSK RB 1 Offset 49	29.38	EIRP	0.867
LTE Band 2/10MMz /16QAM RB 1 Offset 0	27.19	EIRP	0.524
LTE Band 2/10MMz /16QAM RB 1 Offset 49	29.54	EIRP	0.899
LTE Band 2/15MMz /QPSK RB 1 Offset 0	29.79	EIRP	0.953
LTE Band 2/15MMz /QPSK RB 1 Offset 74	29.49	EIRP	0.889
LTE Band 2/15MMz /16QAM RB 1 Offset 0	29.99	EIRP	0.998
LTE Band 2/15MMz /16QAM RB 1 Offset 74	29.81	EIRP	0.957
LTE Band 2/20MMz /QPSK RB 1 Offset 0	29.53	EIRP	0.897
LTE Band 2/20MMz /QPSK RB 1 Offset 99	29.37	EIRP	0.865
LTE Band 2/20MMz /16QAM RB 1 Offset 0	30.24	EIRP	1.057
LTE Band 2/20MMz /16QAM RB 1 Offset 99	30.00	EIRP	1.000

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	dBm		W
LTE Band 5/1.4MMz /QPSK RB 1 Offset 0	25.20	ERP	0.331
LTE Band 5/1.4MMz /QPSK RB 1 Offset 5	25.68	ERP	0.370
LTE Band 5/1.4MMz /16QAM RB 1 Offset 0	24.93	ERP	0.311
LTE Band 5/1.4MMz /16QAM RB 1 Offset 5	26.44	ERP	0.441
LTE Band 5/3MMz /QPSK RB 1 Offset 0	25.41	ERP	0.348
LTE Band 5/3MMz /QPSK RB 1 Offset 14	25.23	ERP	0.333
LTE Band 5/3MMz /16QAM RB 1 Offset 0	25.64	ERP	0.366
LTE Band 5/3MMz /16QAM RB 1 Offset 14	25.59	ERP	0.362
LTE Band 5/5MMz /QPSK RB 1 Offset 0	25.41	ERP	0.348
LTE Band 5/5MMz /QPSK RB 1 Offset 24	25.62	ERP	0.365
LTE Band 5/5MMz /16QAM RB 1 Offset 0	25.72	ERP	0.373
LTE Band 5/5MMz /16QAM RB 1 Offset 24	25.13	ERP	0.326
LTE Band 5/10MMz /QPSK RB 1 Offset 0	25.66	ERP	0.368
LTE Band 5/10MMz /QPSK RB 1 Offset 49	24.84	ERP	0.305
LTE Band 5/10MMz /16QAM RB 1 Offset 0	26.07	ERP	0.405
LTE Band 5/10MMz /16QAM RB 1 Offset 49	24.94	ERP	0.312

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	dBm		W
LTE Band 4/1.4MMz /QPSK RB 1 Offset 0	27.75	EIRP	0.596
LTE Band 4/1.4MMz /QPSK RB 1 Offset 5	27.70	EIRP	0.589
LTE Band 4/1.4MMz /16QAM RB 1 Offset 0	27.79	EIRP	0.601
LTE Band 4/1.4MMz /16QAM RB 1 Offset 5	27.92	EIRP	0.619
LTE Band 4/3MMz /QPSK RB 1 Offset 0	27.73	EIRP	0.593
LTE Band 4/3MMz /QPSK RB 1 Offset 14	27.79	EIRP	0.601
LTE Band 4/3MMz /16QAM RB 1 Offset 0	27.91	EIRP	0.618
LTE Band 4/3MMz /16QAM RB 1 Offset 14	27.96	EIRP	0.625
LTE Band 4/5MMz /QPSK RB 1 Offset 0	28.45	EIRP	0.700
LTE Band 4/5MMz /QPSK RB 1 Offset 24	27.91	EIRP	0.618
LTE Band 4/5MMz /16QAM RB 1 Offset 0	28.18	EIRP	0.658
LTE Band 4/5MMz /16QAM RB 1 Offset 24	28.15	EIRP	0.653
LTE Band 4/10MMz /QPSK RB 1 Offset 0	28.40	EIRP	0.692
LTE Band 4/10MMz /QPSK RB 1 Offset 49	27.80	EIRP	0.603
LTE Band 4/10MMz /16QAM RB 1 Offset 0	28.52	EIRP	0.711
LTE Band 4/10MMz /16QAM RB 1 Offset 49	28.01	EIRP	0.632
LTE Band 4/15MMz /QPSK RB 1 Offset 0	29.17	EIRP	0.826
LTE Band 4/15MMz /QPSK RB 1 Offset 74	28.86	EIRP	0.769
LTE Band 4/15MMz /16QAM RB 1 Offset 0	28.77	EIRP	0.753
LTE Band 4/15MMz /16QAM RB 1 Offset 74	28.45	EIRP	0.700
LTE Band 4/20MMz /QPSK RB 1 Offset 0	27.97	EIRP	0.627
LTE Band 4/20MMz /QPSK RB 1 Offset 99	28.44	EIRP	0.698
LTE Band 4/20MMz /16QAM RB 1 Offset 0	28.86	EIRP	0.769
LTE Band 4/20MMz /16QAM RB 1 Offset 99	28.39	EIRP	0.690

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	dBm		W
LTE Band 7/5MMz /QPSK RB 1 Offset 0	23.85	EIRP	0.243
LTE Band 7/5MMz /QPSK RB 1 Offset 24	24.27	EIRP	0.267
LTE Band 7/5MMz /16QAM RB 1 Offset 0	23.76	EIRP	0.238
LTE Band 7/5MMz /16QAM RB 1 Offset 24	24.30	EIRP	0.269
LTE Band 7/10MMz /QPSK RB 1 Offset 0	23.56	EIRP	0.227
LTE Band 7/10MMz /QPSK RB 1 Offset 49	23.36	EIRP	0.217
LTE Band 7/10MMz /16QAM RB 1 Offset 0	23.42	EIRP	0.220
LTE Band 7/10MMz /16QAM RB 1 Offset 49	23.55	EIRP	0.226
LTE Band 7/15MMz /QPSK RB 1 Offset 0	23.23	EIRP	0.210
LTE Band 7/15MMz /QPSK RB 1 Offset 74	22.92	EIRP	0.196
LTE Band 7/15MMz /16QAM RB 1 Offset 0	23.38	EIRP	0.218
LTE Band 7/15MMz /16QAM RB 1 Offset 74	23.07	EIRP	0.203
LTE Band 7/20MMz /QPSK RB 1 Offset 0	23.26	EIRP	0.212
LTE Band 7/20MMz /QPSK RB 1 Offset 99	22.91	EIRP	0.195
LTE Band 7/20MMz /16QAM RB 1 Offset 0	23.78	EIRP	0.239
LTE Band 7/20MMz /16QAM RB 1 Offset 99	23.23	EIRP	0.210

	dBm		W
LTE Band 17/5MMz /QPSK RB 1 Offset 0	24.53	ERP	0.284
LTE Band 17/5MMz /QPSK RB 1 Offset 24	24.46	ERP	0.279
LTE Band 17/5MMz /16QAM RB 1 Offset 0	25.13	ERP	0.326
LTE Band 17/5MMz /16QAM RB 1 Offset 24	24.75	ERP	0.299
LTE Band 17/10MMz /QPSK RB 1 Offset 0	24.45	ERP	0.279
LTE Band 17/10MMz /QPSK RB 1 Offset 49	23.25	ERP	0.211
LTE Band 17/10MMz /16QAM RB 1 Offset 0	24.56	ERP	0.286
LTE Band 17/10MMz /16QAM RB 1 Offset 49	23.15	ERP	0.207

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition with continuous transmitting mode, linking to simulator.

Channel Low, Mid and High is set to test against each supported band with rated data rate that yields the highest emission.

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 BV:

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

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

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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

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

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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

LTE B17:

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [Mhz]
Low	5	23755	706.5
	10	23780	709
Middle	5/10	23790	710
High	5	23825	713.5
	10	23800	711

The field strength of spurious radiation emission was measured as stand-up position (E2 mode as defined in Lab) and lie down position with 90 degrees angle apart (H, E1 mode as defines in Lab) for GSM/EDGE and WCDMA Band II and V, and LTE Band 2, Band 4, Band 5, Band 7 and Band 17. The worst-case position in E2 is placed to conduct all applicable measurement test cases for all supported modulation, transmission bandwidth, and frequency band.

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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, and Bandedge

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 & 17, respectively, It's revealed to generate the highest emission while RB size = 1 with offset of both extremity for all supported transmission bandwidth of all supported frequency band. 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 UNCERLIONNTY

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

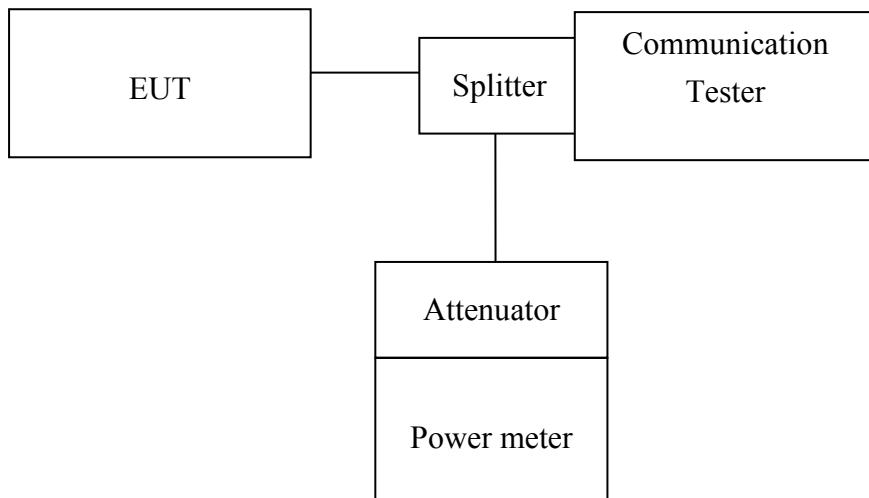
Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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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, LTE) was used for EUT and Base station setting. RMC 12.2kps is used for this testing

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

Set CMU200 (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.: GPRS/EDGE (GMSK; 8-PSK)****Result:**

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) class 8 (dBm)	Average Burst Power (1DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.60	32.50	29.50	29.40
	836.6	190	32.60	32.50	29.50	29.40
	848.8	251	32.60	32.50	29.60	29.40

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 3UP) Class 11 (dBm)	Average Burst Power (1DN 3UP) Cass 11 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	27.60	27.50	26.50	26.40
	836.6	190	27.70	27.60	26.50	26.40
	848.8	251	28.70	27.60	26.60	26.40

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EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) class 8 (dBm)	Average Burst Power (1DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	28.70	28.50	26.10	25.90
	1880.0	661	28.60	28.50	26.00	25.80
	1909.8	810	28.60	28.40	25.80	25.70

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 3UP) Class 11 (dBm)	Average Burst Power (1DN 3UP) Cass 11 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 1900	1850.2	512	24.20	24.10	23.10	22.90
	1880.0	661	24.10	24.00	22.90	22.80
	1909.8	810	24.00	23.80	22.80	22.60

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) class 8 (dBm)	Average Burst Power (1DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
EDGE 850	824.2	128	30.00	27.00	26.80	23.50
	836.6	190	29.70	26.60	26.40	23.10
	848.8	251	29.80	26.80	26.40	23.10

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 3UP) Class 11 (dBm)	Average Burst Power (1DN 3UP) Cass 11 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	24.70	21.30	23.40	20.00
	836.6	190	24.20	21.00	22.90	19.60
	848.8	251	24.40	21.20	23.20	19.80

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EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) class 8 (dBm)	Average Burst Power (1DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	28.20	25.20	25.00	21.60
	1880.0	661	28.20	25.10	24.90	21.50
	1909.8	810	27.70	24.50	24.30	21.00

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 3UP) Class 11 (dBm)	Average Burst Power (1DN 3UP) Cass 11 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
EDGE 1900	1850.2	512	23.60	20.10	22.20	18.80
	1880.0	661	23.50	20.00	22.30	18.90
	1909.8	810	22.90	19.40	21.70	18.20

Cable loss offset Low Band (Low Band): 0.295dBm

Cable loss offset High Band (High Band): 0.419dBm

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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 24dBm (+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	25.80	22.58
	1880.0	9400	25.61	22.59
	1907.6	9538	25.80	22.71

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	26.81	23.30
	836.6	4183	26.31	23.41
	846.6	4233	26.81	23.39

Offset: b2:0.295dBm b5:0.419dBm

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

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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	23.25
				1	5	23.41
				3	2	23.36
				6	0	22.52
		18900	1880.0	1	0	23.16
				1	5	23.21
				3	2	23.16
				6	0	22.17
		19193	1909.3	1	0	22.86
				1	5	23.04
				3	3	23.22
				6	0	22.27
1.4	16 QAM	18607	1850.7	1	0	22.61
				1	5	22.50
				3	2	22.42
				6	0	21.51
		18900	1880.0	1	0	22.27
				1	5	22.46
				3	3	22.50
				6	0	21.51
		19193	1909.3	1	0	22.49
				1	5	22.45
				3	2	22.42
				6	0	21.44

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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	23.88
				1	14	23.72
				8	4	22.47
				15	0	22.63
		18900	1880.0	1	0	23.15
				1	14	23.23
				8	4	22.09
				15	0	22.10
		19185	1908.5	1	0	23.19
				1	14	22.85
				8	4	22.21
				15	0	22.21
3	16 QAM	18615	1851.5	1	0	22.79
				1	14	22.97
				8	4	21.55
				15	0	21.54
		18900	1880.0	1	0	22.70
				1	14	22.64
				8	4	21.19
				15	0	21.33
		19185	1908.5	1	0	22.91
				1	14	22.32
				8	4	21.25
				15	0	21.37

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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	24.11
				1	24	23.82
				12	6	22.47
				25	0	22.63
		18900	1880.0	1	0	23.38
				1	24	23.65
				12	6	22.21
				25	0	22.42
		19175	1907.5	1	0	23.50
				1	24	23.05
				12	6	22.56
				25	0	22.35
5	16 QAM	18625	1852.5	1	0	22.35
				1	24	22.38
				12	6	21.49
				25	0	21.43
		18900	1880.0	1	0	22.06
				1	24	22.51
				12	6	21.27
				25	0	21.39
		19175	1907.5	1	0	22.85
				1	24	21.93
				12	6	21.41
				25	0	21.33

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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	23.80
				1	49	23.30
				25	12	22.60
				50	0	22.57
		18900	1880.0	1	0	23.34
				1	49	23.50
				25	12	22.18
				50	0	22.08
		19150	1905.0	1	0	24.06
				1	49	22.45
				25	12	22.53
				50	0	22.40
10	16 QAM	18650	1855.0	1	0	23.00
				1	49	22.65
				25	12	21.41
				50	0	21.36
		18900	1880.0	1	0	22.77
				1	49	22.98
				25	12	21.22
				50	0	21.25
		19150	1905.0	1	0	23.61
				1	49	22.00
				25	12	21.39
				50	0	21.40

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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	23.93
				1	74	23.06
				36	19	22.44
				75	0	22.58
		18900	1880.0	1	0	23.50
				1	74	23.87
				36	19	22.06
				75	0	22.31
		19125	1902.5	1	0	24.76
				1	74	22.47
				36	19	22.75
				75	0	22.49
15	16 QAM	18675	1857.5	1	0	23.04
				1	74	21.98
				36	19	21.26
				75	0	21.24
		18900	1880.0	1	0	22.69
				1	74	23.34
				36	19	21.41
				75	0	21.50
		19125	1902.5	1	0	23.35
				1	74	21.37
				36	19	21.10
				75	0	21.14

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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	24.18
				1	99	22.75
				50	25	22.72
				100	0	22.57
		18900	1880.0	1	0	23.15
				1	99	23.69
				50	25	22.08
				100	0	22.38
		19100	1900.0	1	0	24.08
				1	99	22.31
				50	25	22.71
				100	0	22.65
20	16 QAM	18700	1860.0	1	0	22.89
				1	99	21.65
				50	25	21.23
				100	0	21.23
		18900	1880.0	1	0	22.30
				1	99	22.80
				50	25	20.96
				100	0	21.27
		19100	1900.0	1	0	22.96
				1	99	21.04
				50	25	21.35
				100	0	21.30

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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	23.83
				1	5	23.26
				3	2	23.28
				6	0	22.18
		20525	836.5	1	0	23.16
				1	5	23.24
				3	2	23.27
				6	0	22.13
		20643	848.3	1	0	24.10
				1	5	23.72
				3	3	23.52
				6	0	22.20
1.4	16 QAM	20407	824.7	1	0	22.95
				1	5	22.37
				3	2	22.16
				6	0	21.26
		20525	836.5	1	0	22.29
				1	5	22.52
				3	3	22.35
				6	0	21.62
		20643	848.3	1	0	22.41
				1	5	22.45
				3	2	22.00
				6	0	21.14

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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	23.46
				1	14	22.99
				8	4	22.10
				15	0	22.34
		20525	836.5	1	0	23.91
				1	14	23.41
				8	4	22.32
				15	0	22.14
		20635	847.5	1	0	24.25
				1	14	23.95
				8	4	22.44
				15	0	22.00
3	16 QAM	20415	825.5	1	0	23.05
				1	14	22.57
				8	4	21.13
				15	0	21.22
		20525	836.5	1	0	22.87
				1	14	22.53
				8	4	21.09
				15	0	21.14
		20635	847.5	1	0	22.88
				1	14	22.81
				8	4	20.94
				15	0	21.15

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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	22.66
				1	24	22.45
				12	6	21.57
				25	0	22.01
		20525	836.5	1	0	23.75
				1	24	23.33
				12	6	22.33
				25	0	22.33
		20625	846.5	1	0	23.87
				1	24	23.92
				12	6	22.19
				25	0	22.27
5	16 QAM	20425	826.5	1	0	22.67
				1	24	22.20
				12	6	21.11
				25	0	21.30
		20525	836.5	1	0	22.50
				1	24	22.27
				12	6	21.21
				25	0	21.41
		20625	846.5	1	0	22.30
				1	24	22.77
				12	6	20.96
				25	0	21.19

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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	24.09
				1	49	23.82
				25	12	21.75
				50	0	22.30
		20525	836.5	1	0	23.83
				1	49	23.24
				25	12	22.05
				50	0	22.28
		20600	844.0	1	0	23.45
				1	49	23.86
				25	12	21.96
				50	0	22.22
10	16 QAM	20450	829	1	0	22.14
				1	49	22.47
				25	12	20.83
				50	0	21.26
		20525	836.5	1	0	22.32
				1	49	21.90
				25	12	20.85
				50	0	21.23
		20600	844.0	1	0	21.89
				1	49	22.72
				25	12	20.94
				50	0	21.11

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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	23.38
				1	5	23.22
				3	2	23.17
				6	0	22.16
		20175	1732.5	1	0	23.08
				1	5	23.14
				3	2	23.04
				6	0	22.04
		20393	1754.3	1	0	23.34
				1	5	23.18
				3	3	23.26
				6	0	22.28
1.4	16 QAM	19957	1710.7	1	0	22.21
				1	5	22.35
				3	2	22.34
				6	0	21.33
		20175	1732.5	1	0	22.20
				1	5	22.41
				3	3	22.20
				6	0	21.20
		20393	1754.3	1	0	22.66
				1	5	22.49
				3	2	22.13
				6	0	21.12

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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	23.62
				1	14	23.41
				8	4	22.25
				15	0	22.42
		20175	1732.5	1	0	23.61
				1	14	23.54
				8	4	22.23
				15	0	22.08
		20385	1753.5	1	0	23.30
				1	14	23.16
				8	4	22.16
				15	0	22.33
3	16 QAM	19965	1711.5	1	0	22.26
				1	14	22.17
				8	4	21.43
				15	0	21.21
		20175	1732.5	1	0	22.09
				1	14	22.04
				8	4	21.10
				15	0	21.03
		20385	1753.5	1	0	22.15
				1	14	22.04
				8	4	21.38
				15	0	21.16

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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	23.77
				1	24	23.13
				12	6	22.28
				25	0	22.10
		20175	1732.5	1	0	23.26
				1	24	23.45
				12	6	22.31
				25	0	22.18
		20375	1752.5	1	0	23.29
				1	24	23.06
				12	6	22.30
				25	0	22.14
5	16 QAM	19957	1712.5	1	0	22.69
				1	24	22.00
				12	6	21.08
				25	0	21.25
		20175	1732.5	1	0	22.43
				1	24	22.50
				12	6	20.95
				25	0	21.16
		20375	1752.5	1	0	22.49
				1	24	22.14
				12	6	20.96
				25	0	21.16

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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	23.36
				1	49	22.71
				25	12	21.89
				50	0	22.10
		20175	1732.5	1	0	23.13
				1	49	23.46
				25	12	22.26
				50	0	22.11
		20350	1750.0	1	0	23.55
				1	49	22.73
				25	12	22.17
				50	0	22.03
10	16 QAM	20000	1715	1	0	22.19
				1	49	21.76
				25	12	21.14
				50	0	21.21
		20175	1732.5	1	0	21.98
				1	49	22.15
				25	12	21.01
				50	0	21.23
		20350	1750.0	1	0	22.63
				1	49	22.03
				25	12	21.12
				50	0	21.17

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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	24.22
				1	74	23.36
				36	19	22.16
				75	0	22.24
		20175	1732.5	1	0	23.56
				1	74	23.67
				36	19	22.24
				75	0	22.25
		20325	1747.5	1	0	23.87
				1	74	22.75
				36	19	22.12
				75	0	22.30
15	16 QAM	20025	1717.5	1	0	23.14
				1	74	22.55
				36	19	20.95
				75	0	21.03
		20175	1732.5	1	0	22.40
				1	74	22.56
				36	19	21.03
				75	0	21.20
		20325	1747.5	1	0	22.88
				1	74	22.13
				36	19	21.06
				75	0	20.95

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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	23.25
				1	99	23.07
				50	25	21.77
				100	0	22.10
		20175	1732.5	1	0	23.17
				1	99	23.54
				50	25	22.28
				100	0	22.12
		20300	1745.0	1	0	23.44
				1	99	22.63
				50	25	22.14
				100	0	22.29
20	16 QAM	20050	1720	1	0	22.78
				1	99	22.70
				50	25	21.01
				100	0	21.18
		20175	1732.5	1	0	21.88
				1	99	22.45
				50	25	21.01
				100	0	21.21
		20300	1745	1	0	22.57
				1	99	21.63
				50	25	21.02
				100	0	21.04

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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	23.11
				1	24	23.67
				12	6	22.33
				25	0	22.34
		21100	2535.0	1	0	23.12
				1	24	23.36
				12	6	22.03
				25	0	22.36
		21425	2567.5	1	0	23.03
				1	24	23.09
				12	6	22.21
				25	0	22.21
5	16 QAM	20775	2502.5	1	0	22.35
				1	24	22.74
				12	6	21.12
				25	0	21.16
		21100	2535.0	1	0	22.26
				1	24	22.67
				12	6	21.15
				25	0	21.20
		21425	2567.5	1	0	22.40
				1	24	22.24
				12	6	21.19
				25	0	21.22

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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	22.97
				1	49	23.63
				25	12	22.26
				50	0	22.46
		21100	2535.0	1	0	23.04
				1	49	23.41
				25	12	22.16
				50	0	22.34
		21400	2565.0	1	0	23.05
				1	49	22.54
				25	12	22.03
				50	0	22.05
10	16 QAM	20800	2505.0	1	0	22.30
				1	49	23.19
				25	12	21.44
				50	0	21.40
		21100	2535.0	1	0	22.46
				1	49	22.71
				25	12	21.01
				50	0	21.19
		21400	2565.0	1	0	22.83
				1	49	22.09
				25	12	21.07
				50	0	21.06

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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	23.09
				1	74	23.47
				36	19	22.51
				75	0	22.42
		21100	2535.0	1	0	23.18
				1	74	23.50
				36	19	22.01
				75	0	22.22
		21375	2562.5	1	0	23.52
				1	74	22.35
				36	19	22.01
				75	0	22.08
15	16 QAM	20825	2507.5	1	0	22.26
				1	74	22.91
				36	19	21.55
				75	0	21.34
		21100	2535.0	1	0	22.18
				1	74	22.59
				36	19	20.97
				75	0	21.07
		21375	2562.5	1	0	22.84
				1	74	21.82
				36	19	21.15
				75	0	21.24

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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	23.39
				1	99	23.52
				50	25	22.83
				100	0	22.55
		21100	2535.0	1	0	23.12
				1	99	23.75
				50	25	22.20
				100	0	22.42
		21350	2560.0	1	0	23.43
				1	99	22.19
				50	25	21.95
				100	0	22.00
20	16 QAM	20850	2510.0	1	0	22.31
				1	99	22.36
				50	25	21.37
				100	0	21.45
		21100	2535.0	1	0	22.19
				1	99	22.56
				50	25	20.89
				100	0	21.10
		21350	2560.0	1	0	22.45
				1	99	21.25
				50	25	20.78
				100	0	20.97

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LTE Band 17_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	23755	706.5	1	0	23.60
				1	24	23.55
				12	6	22.50
				25	0	22.48
		23790	710.0	1	0	23.03
				1	24	23.66
				12	6	22.48
				25	0	22.43
		23825	713.5	1	0	23.29
				1	24	24.30
				12	6	22.46
				25	0	22.54
5	16 QAM	23755	706.5	1	0	22.87
				1	24	22.54
				12	6	21.42
				25	0	21.57
		23790	710.0	1	0	22.54
				1	24	23.04
				12	6	21.57
				25	0	21.52
		23825	713.5	1	0	22.79
				1	24	23.68
				12	6	21.38
				25	0	21.59

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LTE Band 17_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	23780	709.0	1	0	23.18
				1	49	23.72
				25	12	22.28
				50	0	22.53
		23790	710.0	1	0	23.24
				1	49	23.55
				25	12	22.42
				50	0	22.48
		23800	711.0	1	0	23.39
				1	49	24.16
				25	12	22.36
				50	0	22.56
10	16 QAM	23780	709.0	1	0	22.83
				1	49	23.07
				25	12	21.15
				50	0	21.43
		23790	710.0	1	0	22.72
				1	49	23.25
				25	12	21.50
				50	0	21.57
		23800	711.0	1	0	22.75
				1	49	23.77
				25	12	21.46
				50	0	21.65

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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.

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	22.75	22.48	22.57	20.3dBm – 25.7dBm	Pass
	2	22.46	22.45	22.56	20.3dBm – 25.7dBm	Pass
	3	22.27	22.03	22.04	19.8dBm – 25.7dBm	Pass
	4	22.34	22.04	22.16	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.09	23.27	23.51	20.3dBm – 25.7dBm	Pass
	2	23.23	23.3	23.26	20.3dBm – 25.7dBm	Pass
	3	22.63	22.79	23.02	19.8dBm – 25.7dBm	Pass
	4	22.68	22.83	23.08	19.8dBm – 25.7dBm	Pass

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

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

HSPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel	9262	9400	9538	
HSUPA(B2)	1	22.50	22.57	22.65	18.8dBm – 25.7dBm	Pass
	2	20.55	20.64	20.69	16.8dBm – 25.7dBm	Pass
	3	21.56	21.59	21.73	17.8dBm – 25.7dBm	Pass
	4	20.68	20.69	20.73	16.8dBm – 25.7dBm	Pass
	5	22.39	22.43	22.56	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel	4132	4183	4233	
HSUPA(B5)	1	23.26	23.34	23.31	18.8dBm – 25.7dBm	Pass
	2	21.32	21.42	21.35	16.8dBm – 25.7dBm	Pass
	3	22.30	22.40	22.39	17.8dBm – 25.7dBm	Pass
	4	21.37	21.48	21.43	16.8dBm – 25.7dBm	Pass
	5	23.12	23.17	23.20	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	29	29	29	27.4	25.8	24.2	22.4	20.4

PCL	9	10	11	12	13	14	15
Output power (dBm)	18.4	16.3	14.2	12.3	10.5	8.5	6.3

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

WCDMA/HSDPA/HSUPA band II

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

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7. PEAK TO AVERAGE RATIO

7.1. Standard Applicable:

FCC 24.232 (d) 27.50

Peak transmit power shall be measured over any interval of continuous transmission using instrumentation calibrated in terms of rms-equivalent voltage.

The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

To measure transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission shall not exceed 13 dB.

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

Refer to section 2.4 in this report

7.3. Measurement Procedure:

Set resolution/measurement bandwidth \geq signal's occupied bandwidth;

Set the number of counts to a value that stabilizes the measured CCDF curve;

7.4. Measurement Result:

Refer to next page for plot.

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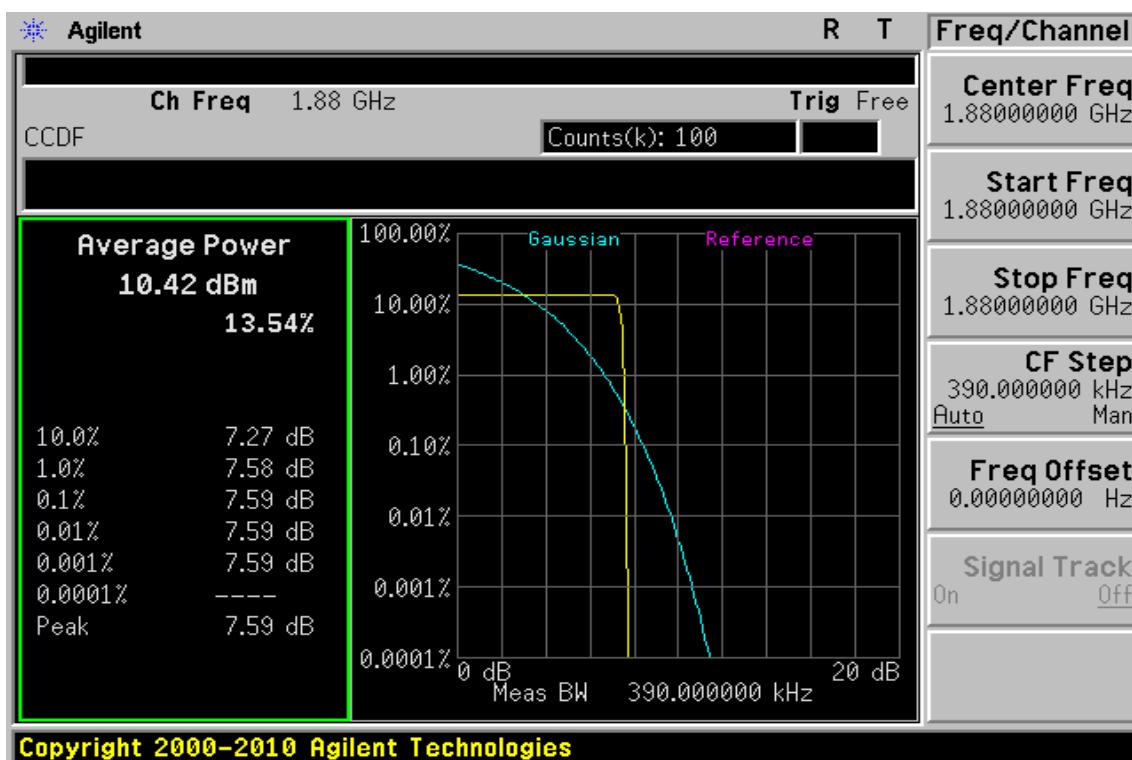
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Figure 7-1: GPRS 1900 Channel Low



Figure 7-2: GPRS 1900 Channel Mid



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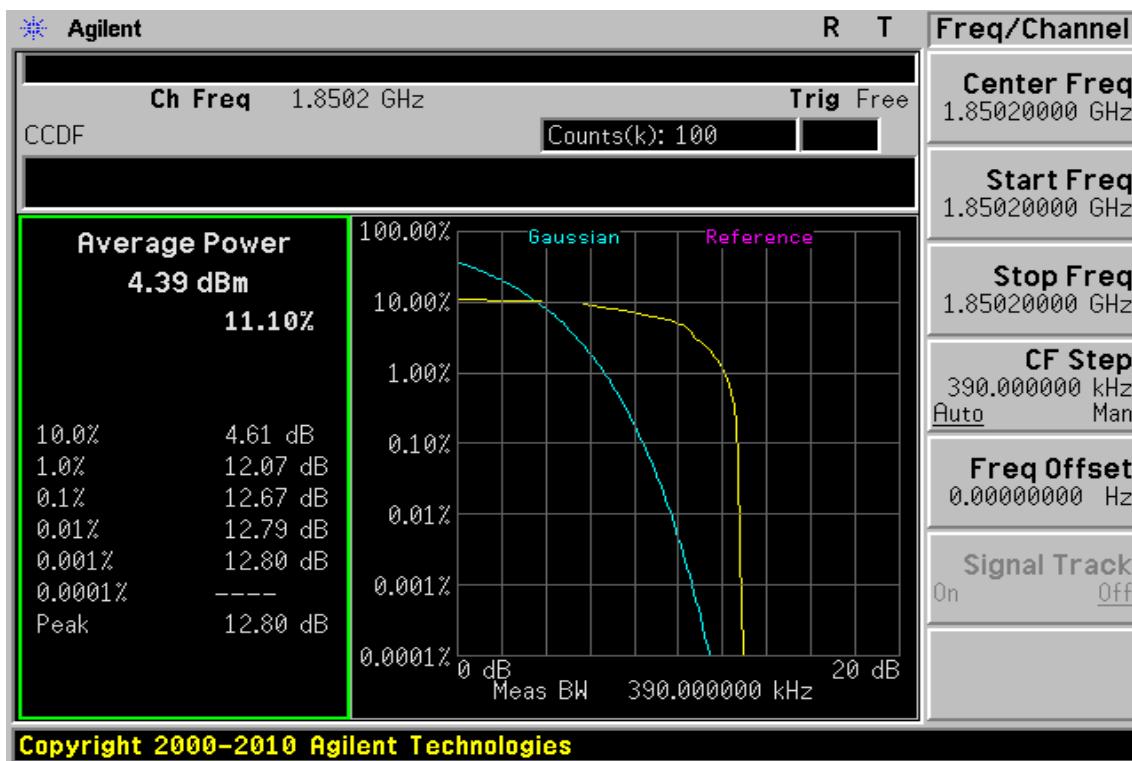
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Figure 7-3: GPRS 1900 Channel High



Figure 7-4: EDGE 1900 Channel Low



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Figure 7-5: EDGE 1900 Channel Mid



Figure 7-6: EDGE 1900 Channel High



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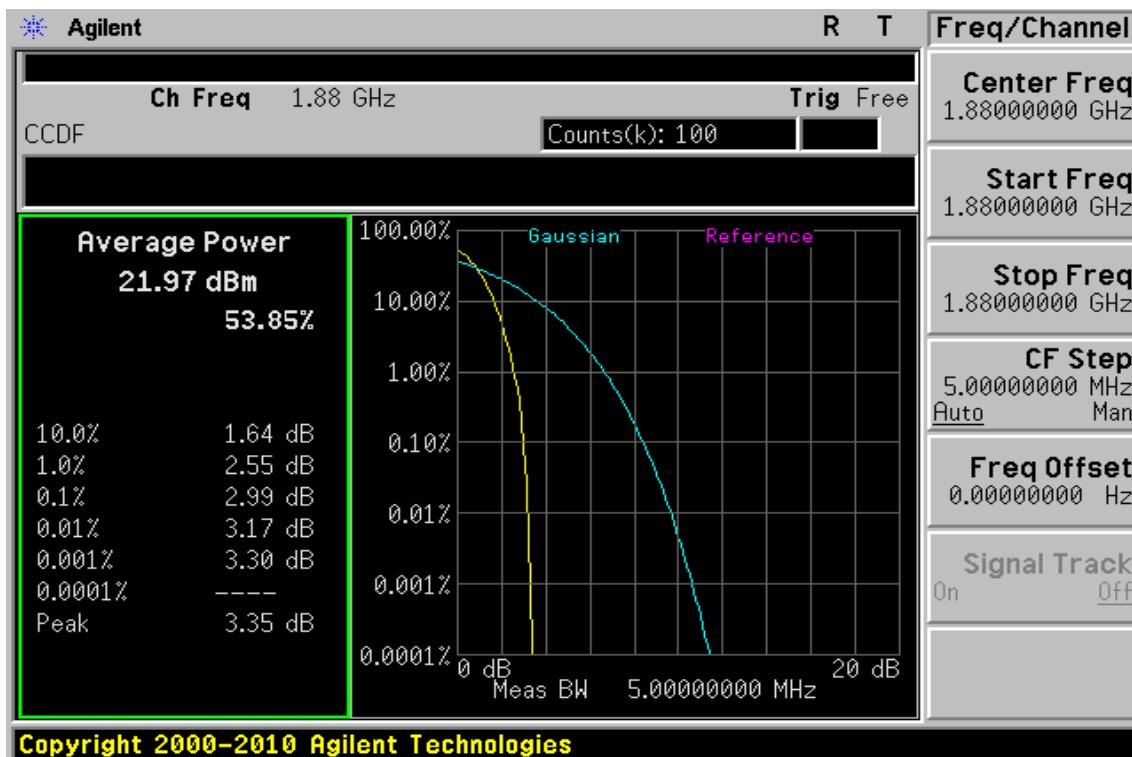
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Figure 7-7: WCDMA BII Channel Low



Figure 7-8: WCDMA BII Channel Mid



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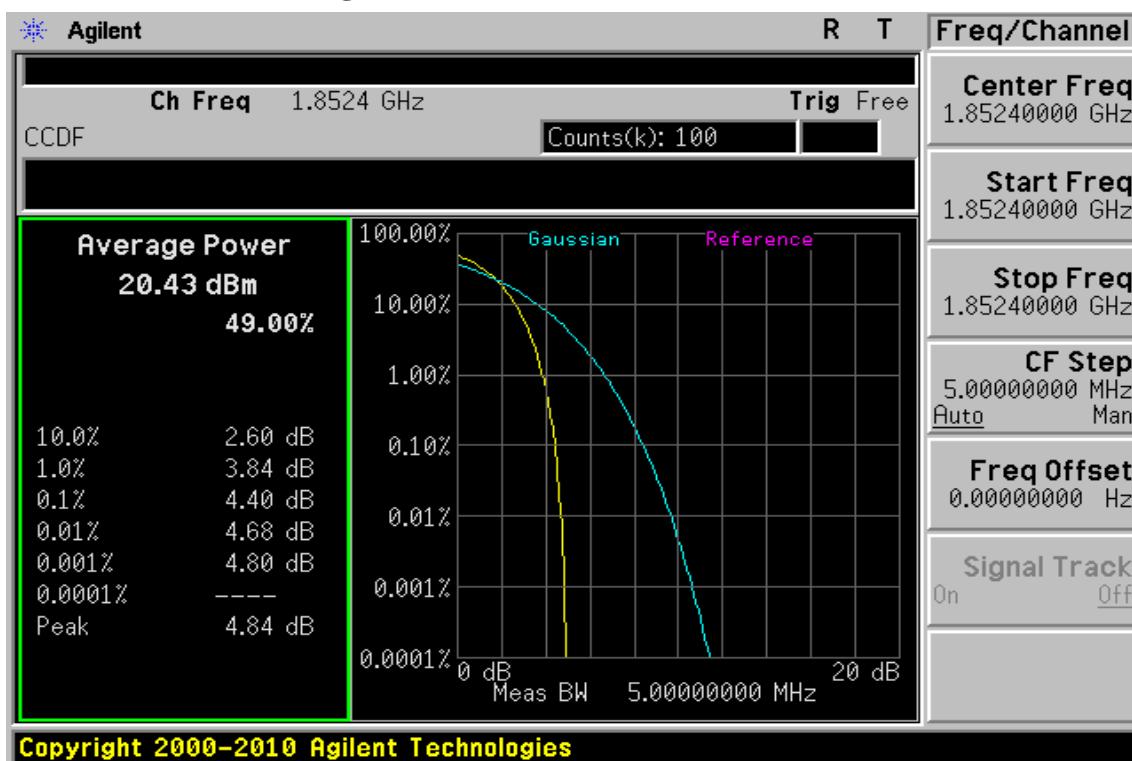
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Figure 7-9: WCDMA BII Channel High



Figure 7-10: HSUPA BII Channel Low



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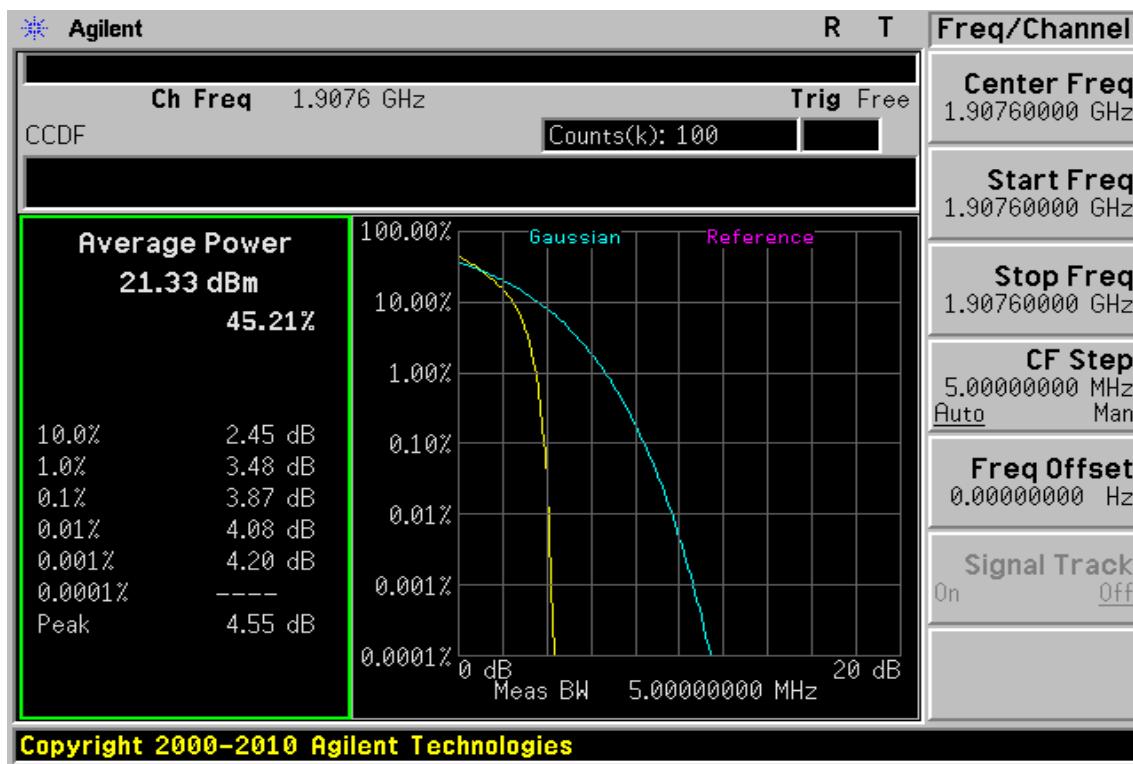
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Figure 7-11: HSUPA BII Channel Mid



Figure 7-12: HSUPA BII Channel High



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Figure 7-13: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low



Figure 7-14: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 7-15: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High



Figure 7-16: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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Figure 7-17: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid



Figure 7-18: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



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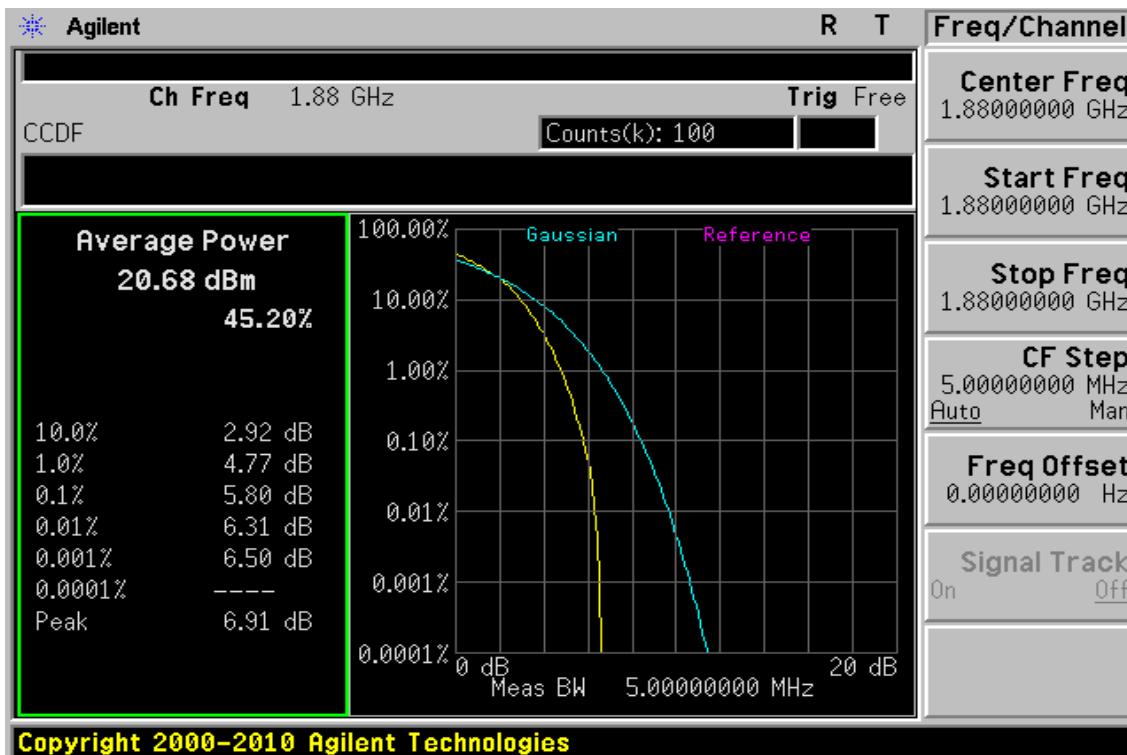
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Figure 7-19: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low



Figure 7-20: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 7-21: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High



Figure 7-22: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low



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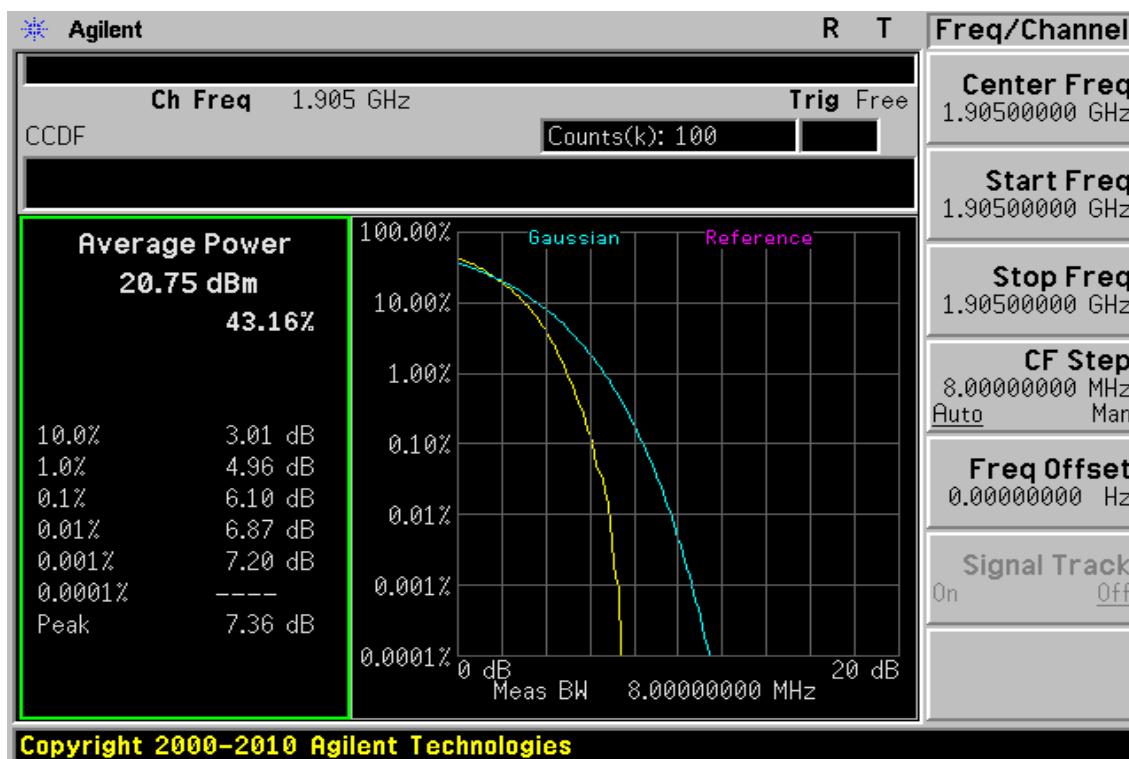
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Figure 7-23: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid



Figure 7-24: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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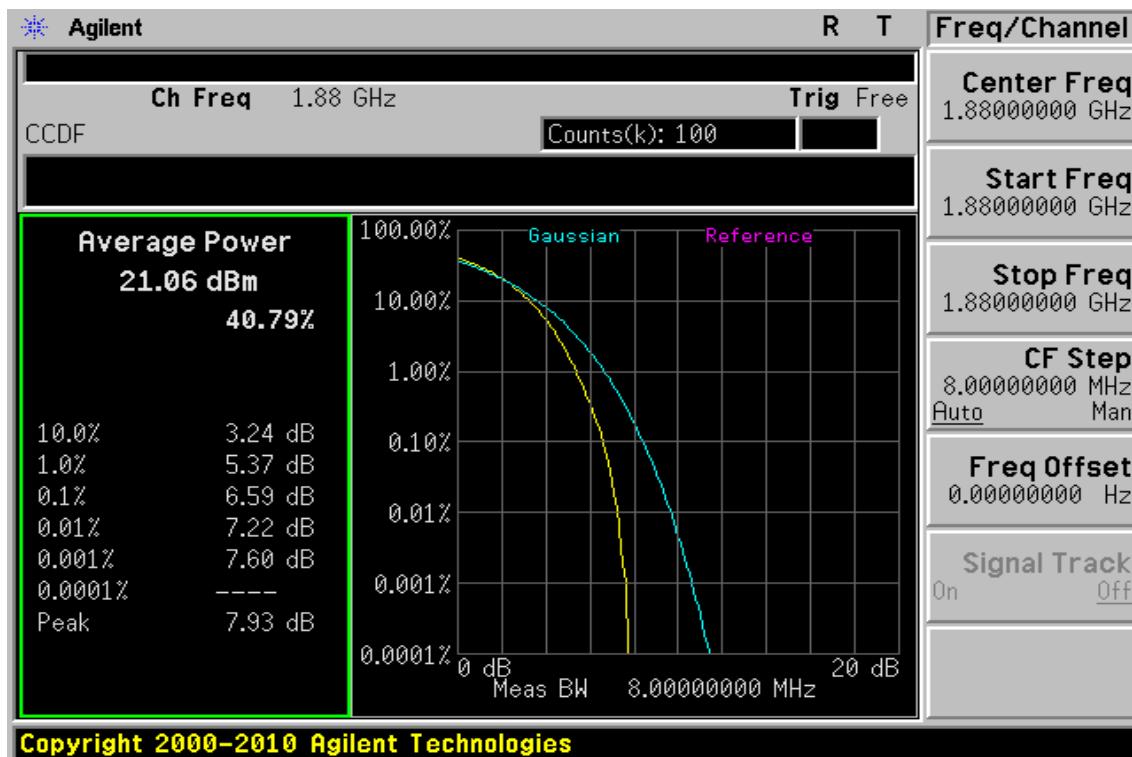
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Figure 7-25: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low



Figure 7-26: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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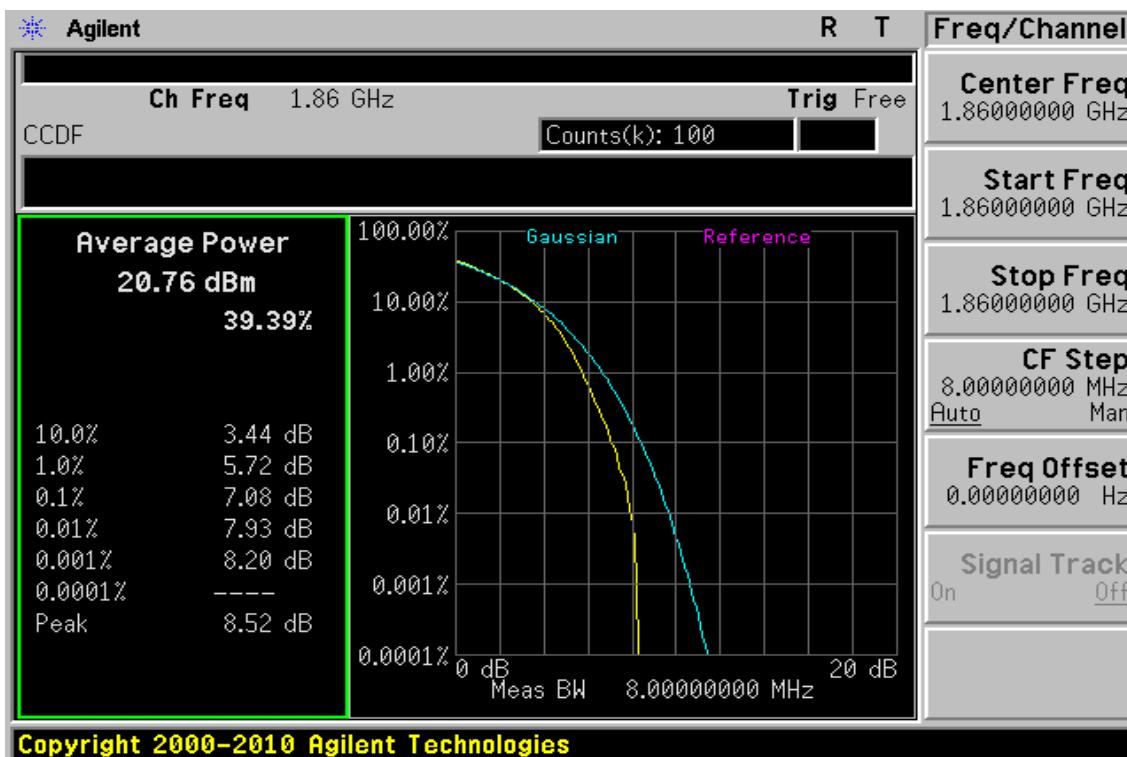
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Figure 7-27: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High



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Figure 7-28: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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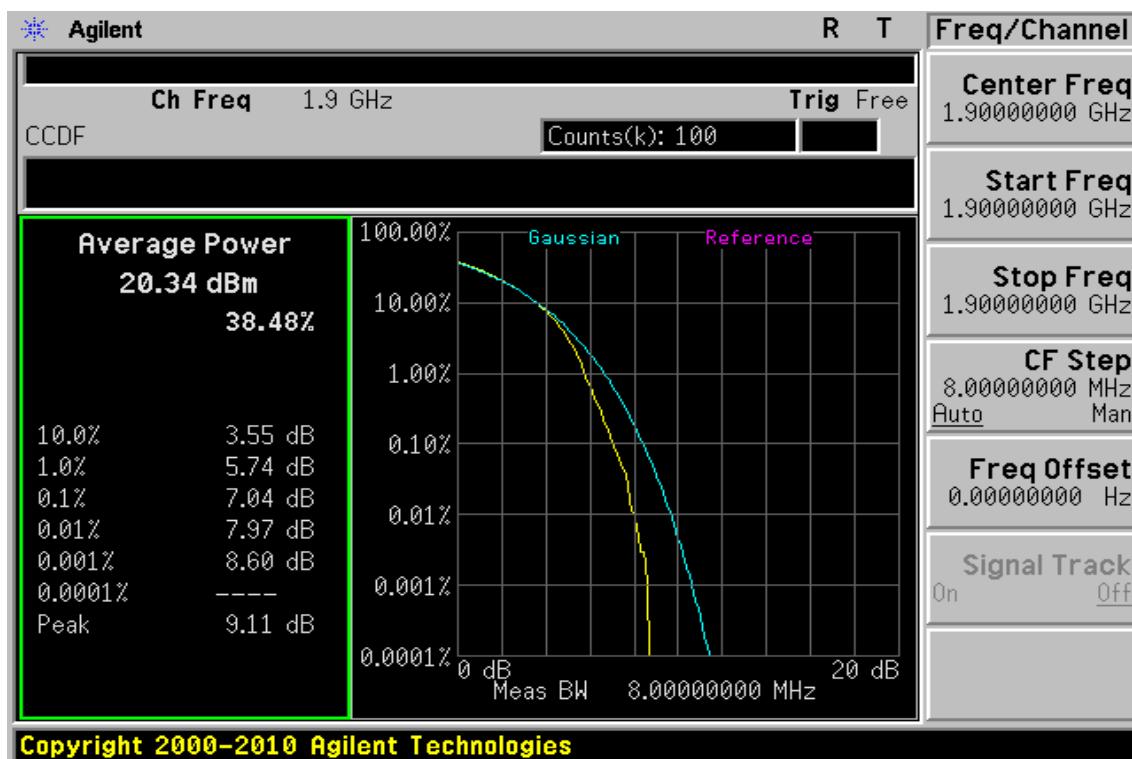
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Figure 7-29: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid



Figure 7-30: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



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Figure 7-31: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low



Figure 7-32: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 7-33: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High



Figure 7-34: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low



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Figure 7-35: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid



Figure 7-36: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



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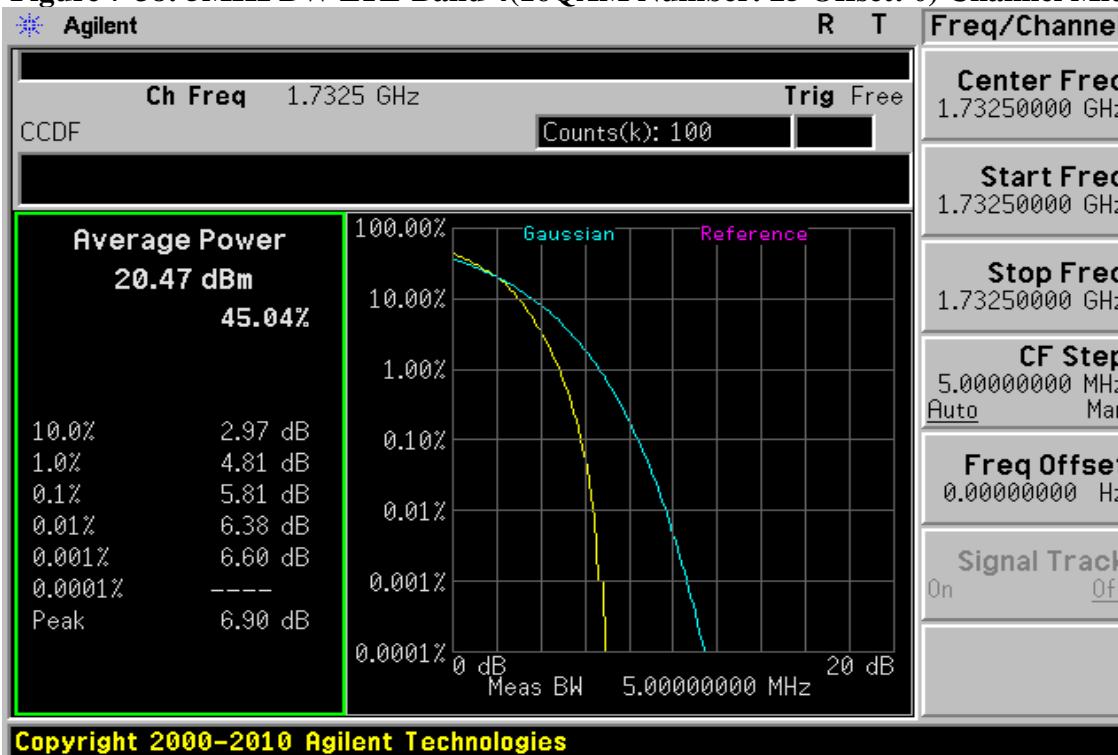
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Figure 7-37: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low



Figure 7-38: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 7-39: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High

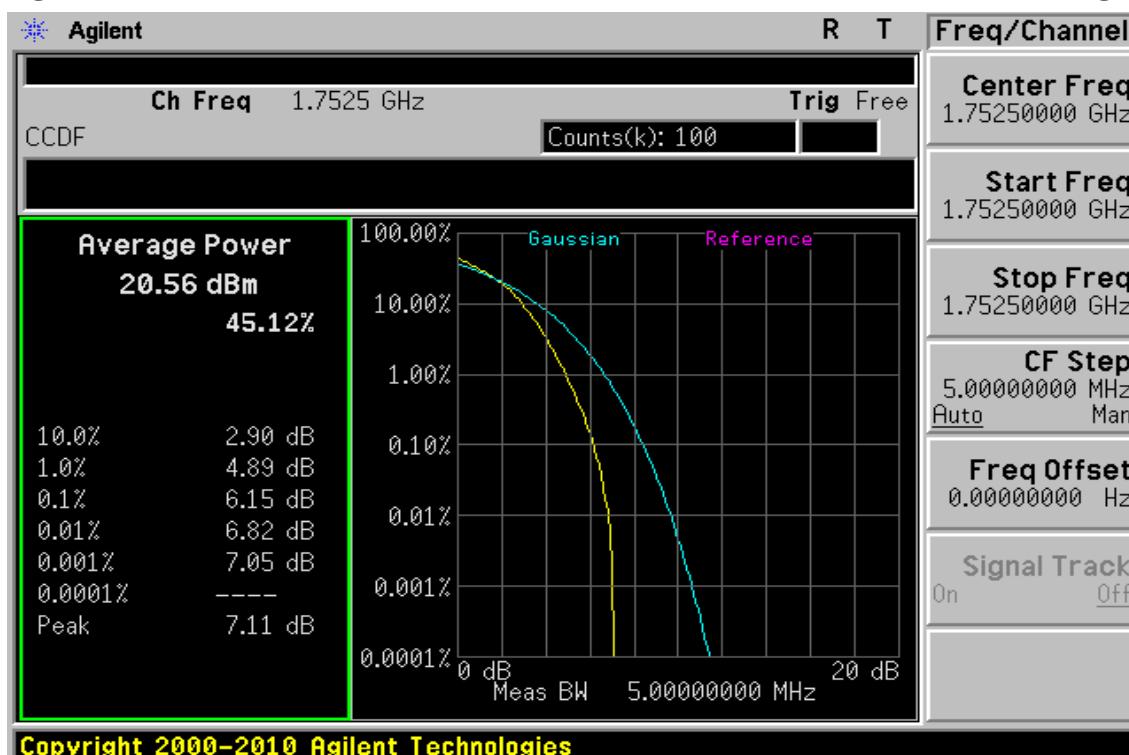
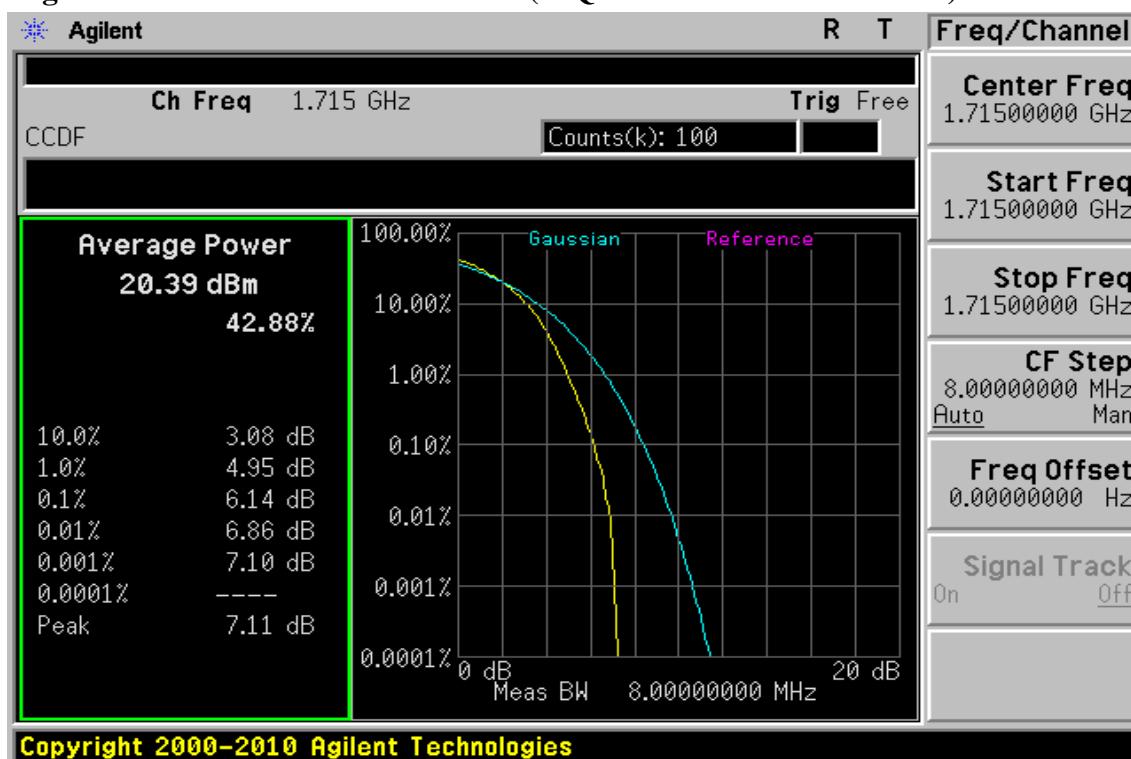


Figure 7-40: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low



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Figure 7-41: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid

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Figure 7-42: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High

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Figure 7-43: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low



Figure 7-44: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



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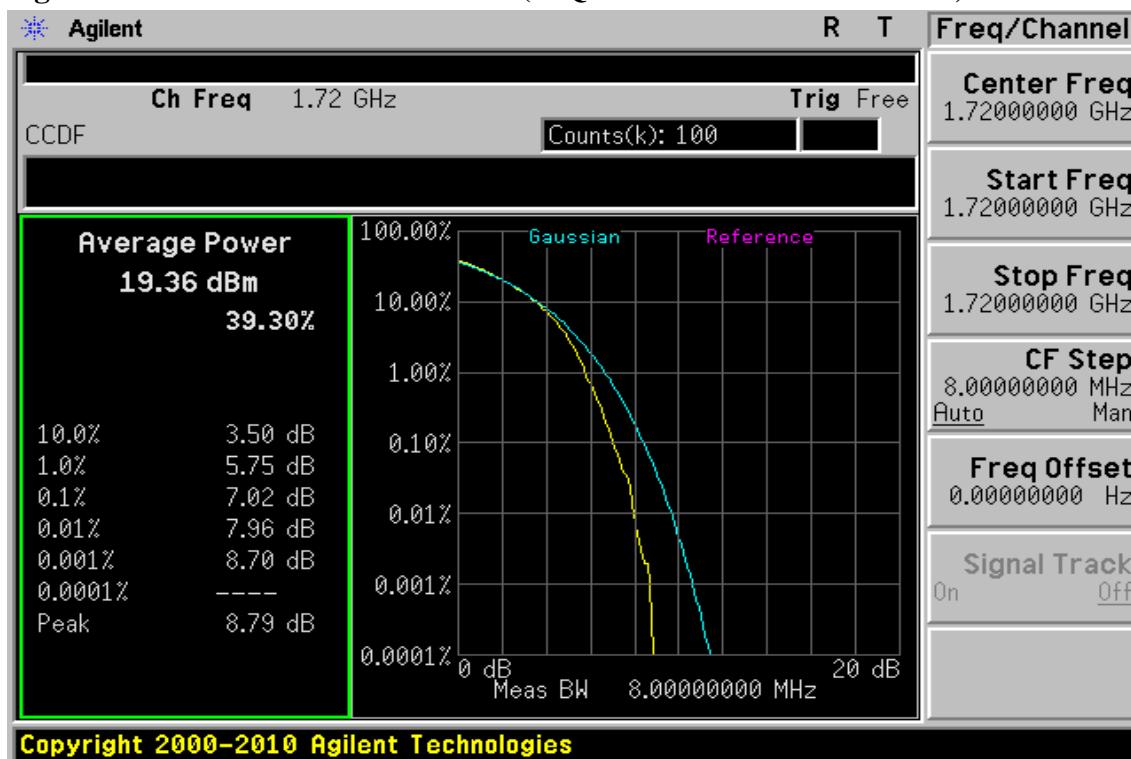
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Figure 7-45: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High



Figure 7-46: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low



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Figure 7-47: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid



Figure 7-48: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High



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Figure 7-49: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low



Figure 7-50: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 7-51: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High

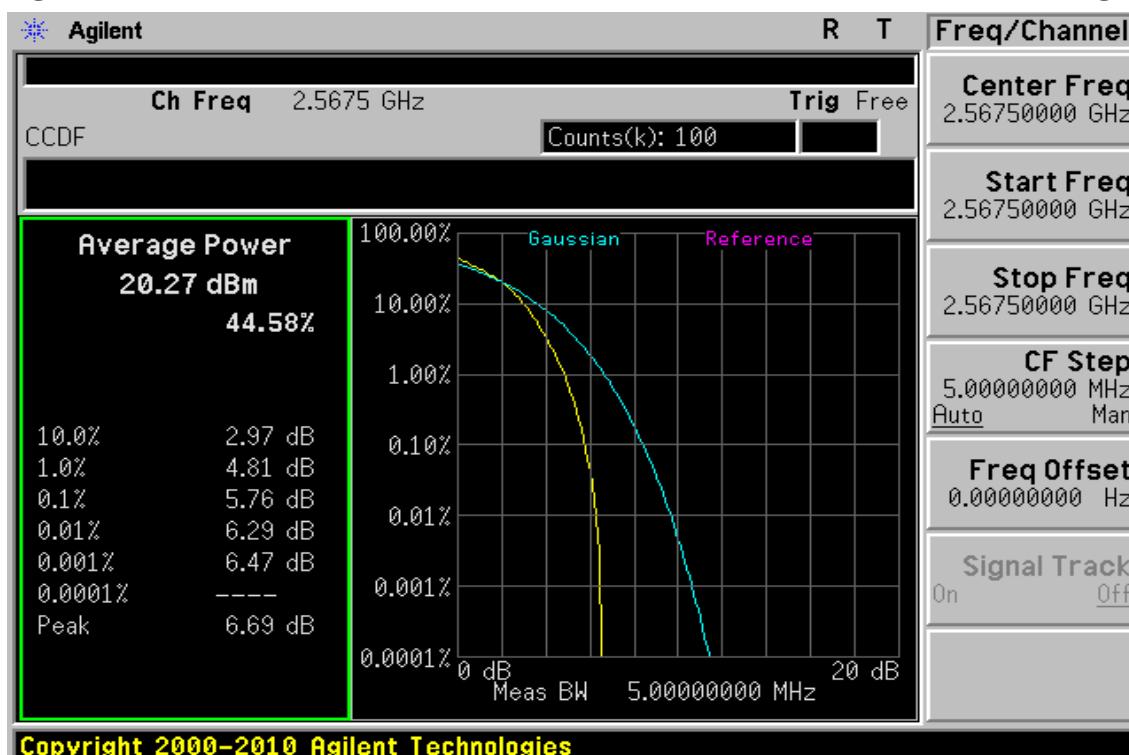
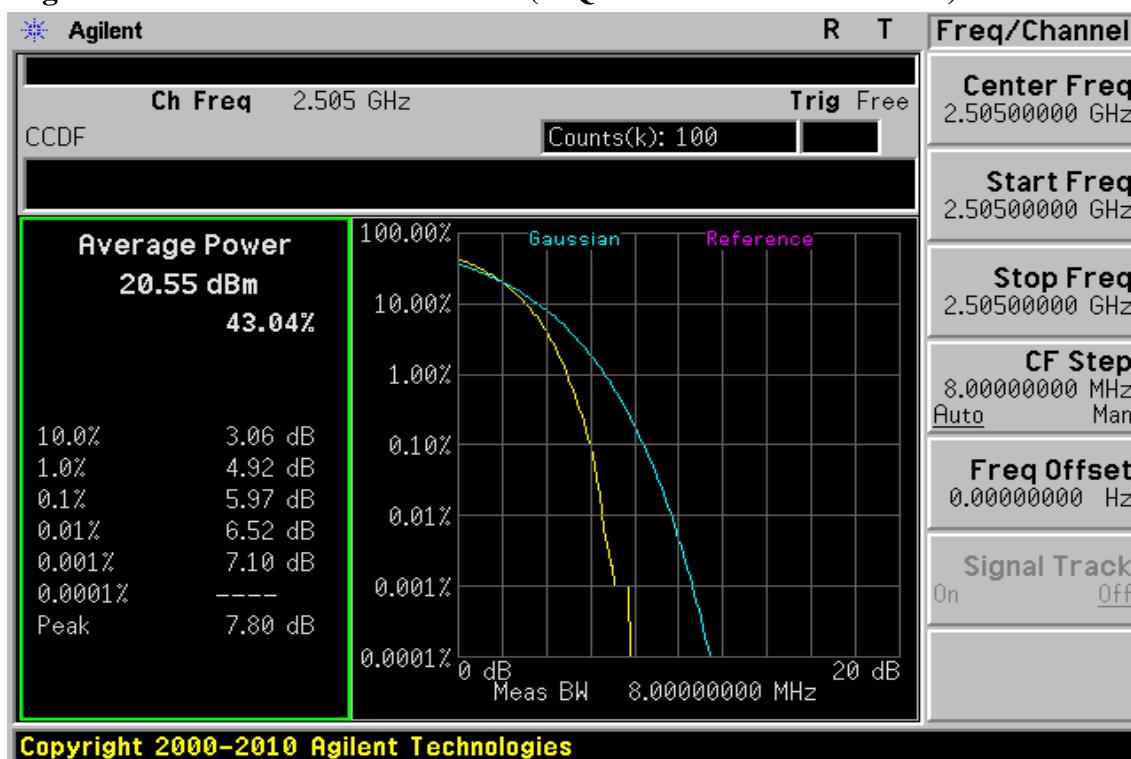


Figure 7-52: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low



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Figure 7-53: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid

Figure 7-54: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High


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Figure 7-55: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low



Figure 7-56: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 7-57: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High



Figure 7-58: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



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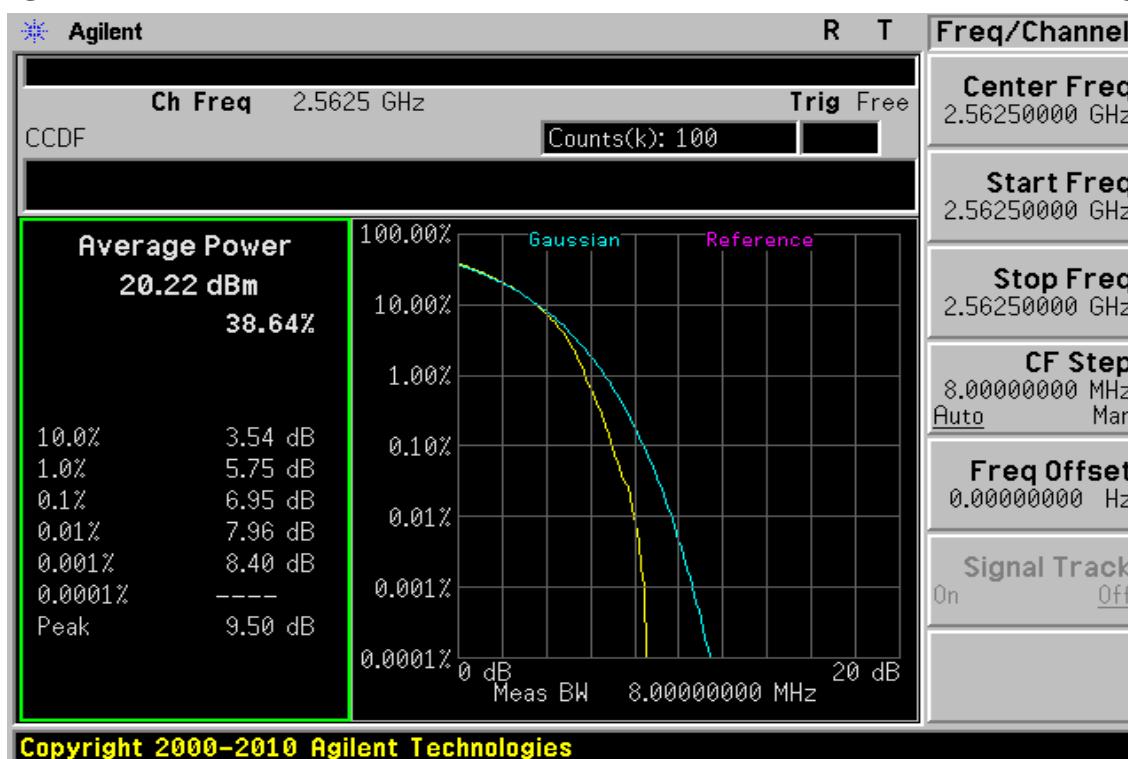
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Figure 7-59: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid



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Figure 7-60: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



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Figure 7-61: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Low



Figure 7-62: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 7-63: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel High

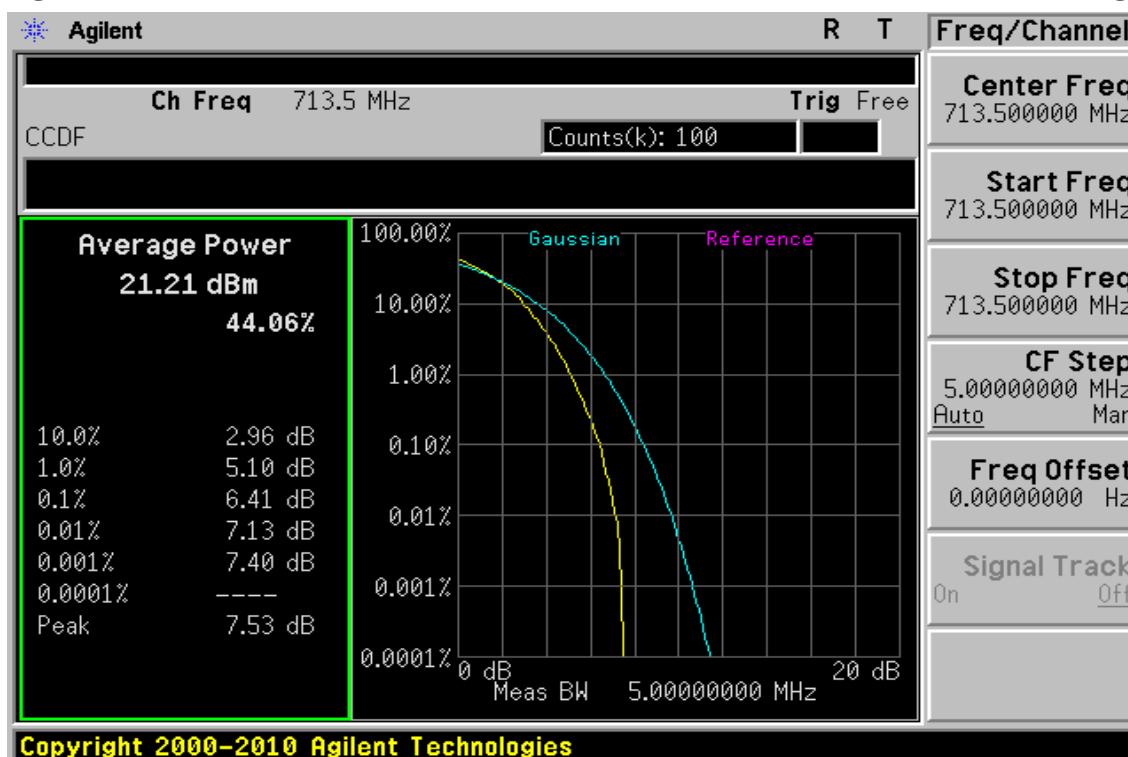
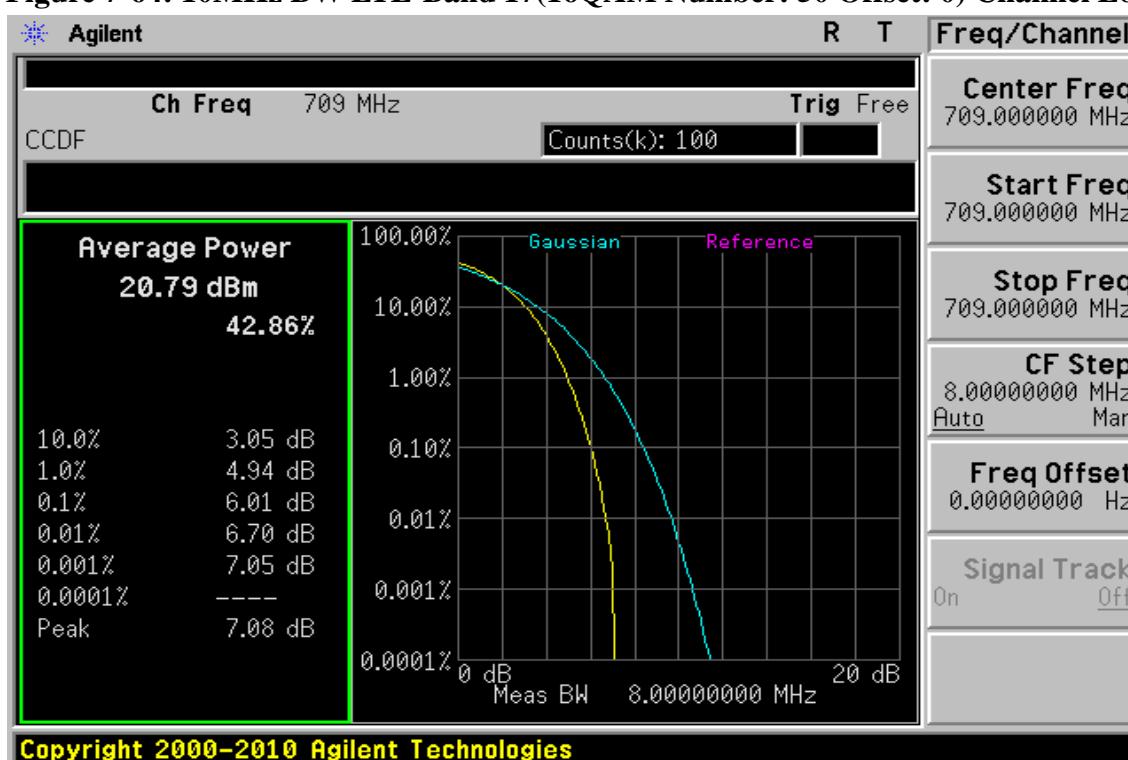


Figure 7-64: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Low



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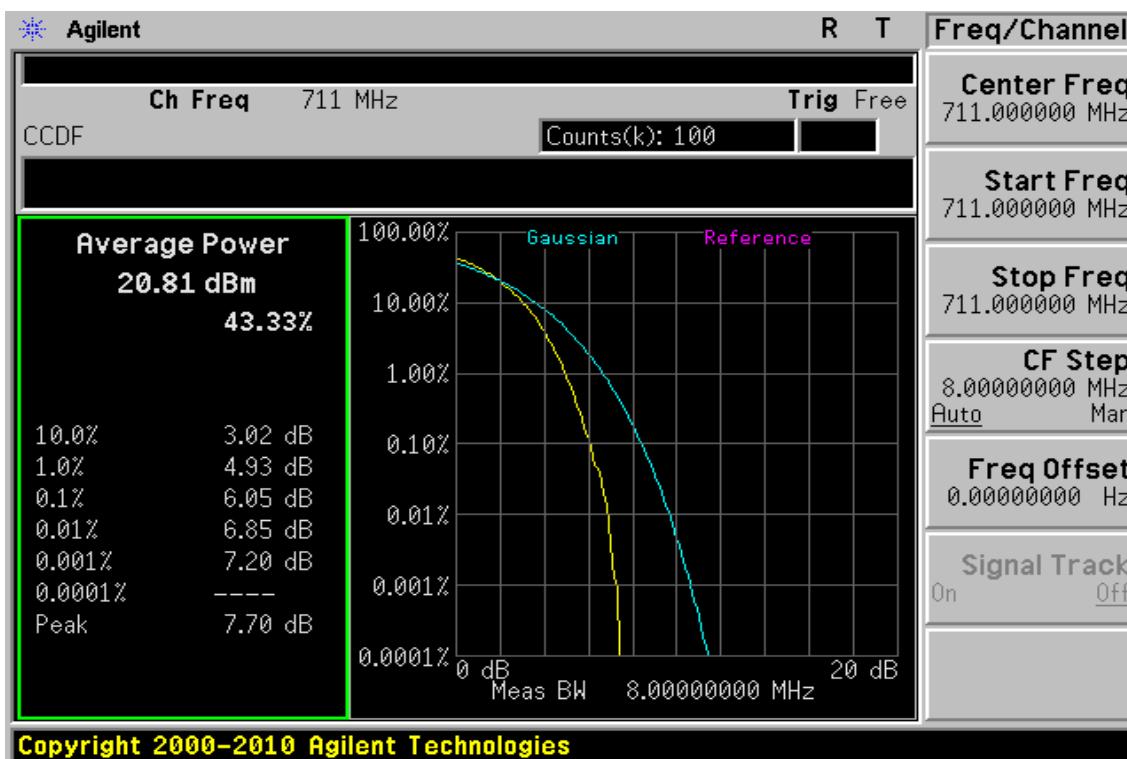
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Figure 7-65: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Mid



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Figure 7-66: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel High



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8. ERP, EIRP MEASUREMENT

8.1. Standard Applicable:

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

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

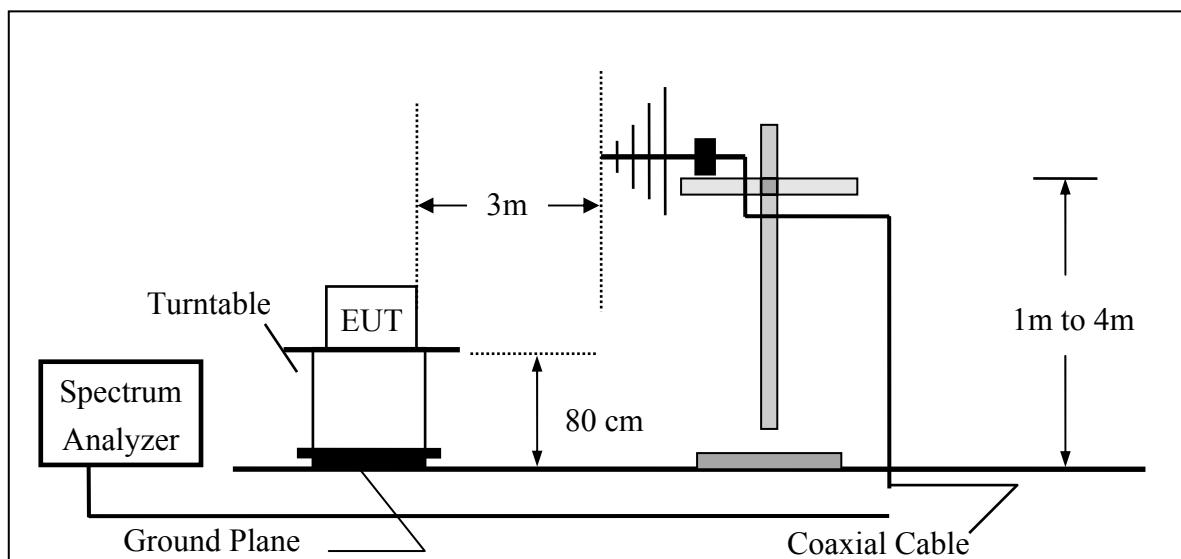
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27.50(c)(9) Controlled station and mobile stations are limited to 30W ERP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP

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

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

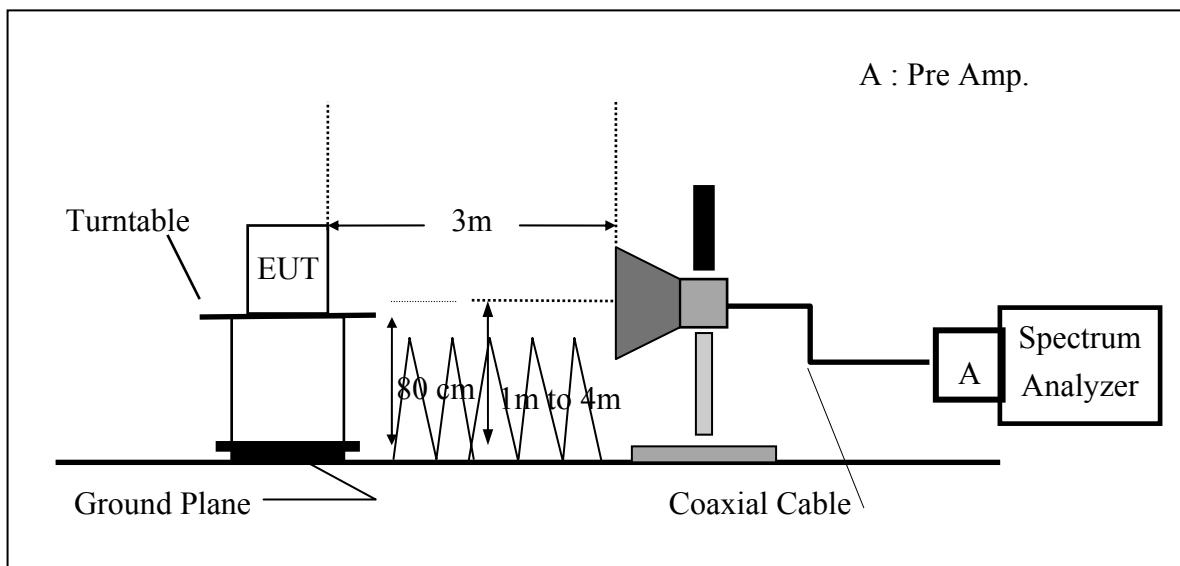


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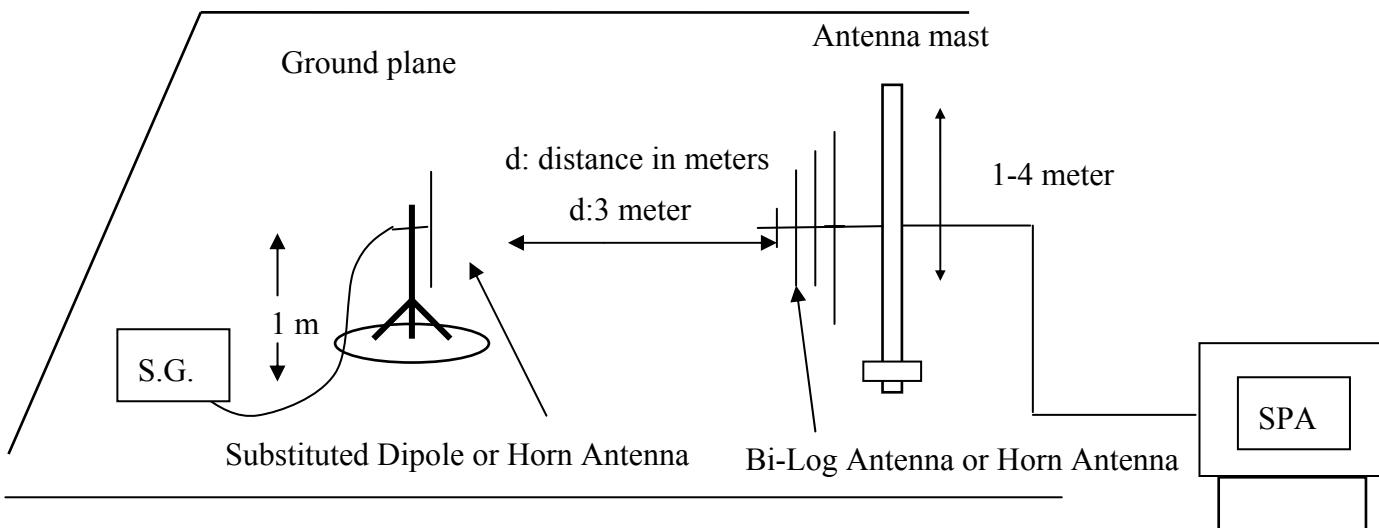
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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8.3. 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 and converted.

ERP in frequency band 698MHz - 746MHz 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:

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 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 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:

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

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

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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 $VBW > -3 \times RBW$.

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 $\approx 1\text{--}5\%$ 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 = $601 \times 10^{-3} = 6\text{s}$).

Activate trace averaging routine over a minimum of 10 sweeps;

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

Activate the band/interval power marker function;

Record the band power level;

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

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

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	27.02	3.91	-3.03	27.89	38.45
			H	19.47	3.91	-3.03	20.35	38.45
	836.6	190	V	27.37	3.89	-3.07	28.19	38.45
			H	21.52	3.89	-3.07	22.34	38.45
	848.8	251	V	26.96	3.87	-3.11	27.72	38.45
			H	21.47	3.87	-3.11	22.24	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	16.91	3.91	-3.03	17.79	38.45
			H	10.35	3.91	-3.03	11.22	38.45
	836.6	190	V	27.26	3.89	-3.07	28.08	38.45
			H	21.58	3.89	-3.07	22.40	38.45
	848.8	251	V	26.92	3.87	-3.11	27.68	38.45
			H	21.53	3.87	-3.11	22.30	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	26.2	3.91	-3.03	27.08	38.45
			H	17.5	3.91	-3.03	18.38	38.45
	836.6	190	V	26.57	3.89	-3.07	27.39	38.45
			H	18.89	3.89	-3.07	19.71	38.45
	848.8	251	V	25.98	3.87	-3.11	26.75	38.45
			H	18.65	3.87	-3.11	19.42	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	23.58	5.08	-4.67	23.99	33.00
			H	22.10	5.08	-4.67	22.51	33.00
	1880.0	661	V	26.24	5	-4.7	26.54	33.00
			H	21.31	5	-4.7	21.61	33.00
	1909.8	810	V	25.42	4.92	-4.74	25.61	33.00
			H	21.49	4.92	-4.74	21.68	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	22.66	5.08	-4.67	23.07	33.00
			H	21.08	5.08	-4.67	21.49	33.00
	1880.0	661	V	25.49	5	-4.7	25.79	33.00
			H	20.49	5	-4.7	20.78	33.00
	1909.8	810	V	24.62	4.92	-4.74	24.81	33.00
			H	20.67	4.92	-4.74	20.85	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	1850.2	512	V	25.14	5.08	-4.67	25.55	33.00
			H	20.44	5.08	-4.67	20.84	33.00
	1880.0	661	V	25.83	5	-4.7	26.13	33.00
			H	20.93	5	-4.7	21.23	33.00
	1909.8	810	V	25.46	4.92	-4.74	25.64	33.00
			H	21.64	4.92	-4.74	21.83	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
WCDMA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	23.18	5.07	-4.67	23.58	33.00
			H	17.86	5.07	-4.67	18.27	33.00
	1880.0	9400	V	22.73	5	-4.7	23.03	33.00
			H	17.70	5	-4.7	17.99	33.00
	1907.6	9538	V	22.30	4.93	-4.74	22.50	33.00
			H	18.34	4.93	-4.74	18.53	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSDPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	25.03	5.07	-4.67	25.43	33.00
			H	19.56	5.07	-4.67	19.96	33.00
	1880.0	9400	V	23.21	5	-4.7	23.51	33.00
			H	18.31	5	-4.7	18.60	33.00
	1907.6	9538	V	22.70	4.93	-4.74	22.90	33.00
			H	18.91	4.93	-4.74	19.10	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSUPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	24.28	5.07	-4.67	24.68	33.00
			H	19.01	5.07	-4.67	19.41	33.00
	1880.0	9400	V	24.09	5	-4.7	24.39	33.00
			H	19.00	5	-4.7	19.29	33.00
	1907.6	9538	V	23.55	4.93	-4.74	23.75	33.00
			H	19.70	4.93	-4.74	19.90	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	22.73	3.9	-3.04	23.59	38.45
			H	19.72	3.9	-3.04	20.59	38.45
	836.6	4183	V	23.27	3.89	-3.07	24.09	38.45
			H	19.79	3.89	-3.07	20.62	38.45
	846.6	4233	V	23.40	3.87	-3.1	24.17	38.45
			H	19.49	3.87	-3.1	20.27	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	23.29	3.9	-3.03	24.16	38.45
			H	20.43	3.9	-3.03	21.30	38.45
	836.6	4183	V	23.53	3.89	-3.07	24.36	38.45
			H	20.24	3.89	-3.07	21.07	38.45
	846.6	4233	V	23.67	3.88	-3.1	24.45	38.45
			H	20.16	3.87	-3.1	20.94	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	23.69	3.9	-3.03	24.56	38.45
			H	20.9	3.9	-3.03	21.77	38.45
	836.6	4183	V	23.85	3.89	-3.07	24.67	38.45
			H	20.54	3.89	-3.07	21.36	38.45
	846.6	4233	V	24.13	3.88	-3.1	24.91	38.45
			H	20.40	3.87	-3.1	21.17	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	dBd	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	30.20	5.08	-4.67	30.61	33.00
			H	22.00	5.08	-4.67	22.41	33.00
	1880.0	18900	V	28.40	5	-4.7	28.70	33.00
			H	19.94	5	-4.7	20.24	33.00
	1909.3	19193	V	28.97	4.93	-4.74	29.16	33.00
			H	18.94	4.93	-4.74	19.13	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	30.13	5.08	-4.67	30.54	33.00
			H	22.23	5.08	-4.67	22.64	33.00
	1880.0	18900	V	28.80	5	-4.7	29.10	33.00
			H	20.30	5	-4.7	20.60	33.00
	1909.3	19193	V	28.80	4.93	-4.74	28.99	33.00
			H	18.65	4.93	-4.74	18.83	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	30.29	5.08	-4.67	30.70	33.00
			H	22.48	5.08	-4.67	22.88	33.00
	1880.0	18900	V	28.54	5	-4.7	28.85	33.00
			H	20.14	5	-4.7	20.43	33.00
	1909.3	19193	V	29.25	4.93	-4.74	29.45	33.00
			H	18.84	4.93	-4.74	19.03	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	30.34	5.08	-4.67	30.74	33.00
			H	22.73	5.08	-4.67	23.13	33.00
	1880.0	18900	V	28.82	5	-4.7	29.12	33.00
			H	20.42	5	-4.7	20.71	33.00
	1909.3	19193	V	29.25	4.93	-4.74	29.44	33.00
			H	18.82	4.93	-4.74	19.01	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	30.06	5.08	-4.67	30.47	33.00
			H	14.34	5.08	-4.67	14.75	33.00
	1880.0	18900	V	28.20	5	-4.7	28.50	33.00
			H	15.26	5.	-4.7	15.56	33.00
	1908.5	19185	V	28.95	4.93	-4.74	29.14	33.00
			H	19.33	4.93	-4.74	19.53	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	29.94	5.07	-4.67	30.34	33.00
			H	13.49	5.07	-4.67	13.89	33.00
	1880.0	18900	V	28.63	5	-4.71	28.93	33.00
			H	16.81	5	-4.71	17.11	33.00
	1908.5	19185	V	28.73	4.93	-4.74	28.92	33.00
			H	19.57	4.93	-4.74	19.76	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	29.94	5.08	-4.67	30.35	33.00
			H	14.63	5.08	-4.67	15.04	33.00
	1880.0	18900	V	28.30	5.01	-4.7	28.60	33.00
			H	15.42	5.01	-4.7	15.73	33.00
	1908.5	19185	V	28.96	4.93	-4.74	29.16	33.00
			H	19.57	4.93	-4.73	19.77	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	30.03	5.07	-4.67	30.44	33.00
			H	13.74	5.07	-4.67	14.14	33.00
	1880.0	18900	V	28.62	5	-4.7	28.91	33.00
			H	17.04	5	-4.71	17.34	33.00
	1908.5	19185	V	28.96	4.93	-4.74	29.15	33.00
			H	19.81	4.93	-4.74	20.00	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	29.12	5.08	-4.67	29.53	33.00
			H	27.21	5.08	-4.67	27.62	33.00
	1880.0	18900	V	24.84	5.01	-4.7	25.15	33.00
			H	18.42	5.01	-4.7	18.72	33.00
	1907.5	19175	V	28.73	4.94	-4.73	28.93	33.00
			H	18.59	4.94	-4.73	18.80	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	26.39	5.07	-4.67	26.79	33.00
			H	19.43	5.07	-4.67	19.83	33.00
	1880.0	18900	V	28.78	5	-4.71	29.07	33.00
			H	17.98	5	-4.71	18.27	33.00
	1907.5	19175	V	28.55	4.93	-4.74	28.74	33.00
			H	18.75	4.93	-4.74	18.94	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	29.78	5.08	-4.67	30.19	33.00
			H	20.09	5.08	-4.67	20.50	33.00
	1880.0	18900	V	26.29	5.01	-4.7	26.60	33.00
			H	19.07	5.01	-4.7	19.38	33.00
	1907.5	19175	V	26.11	4.94	-4.73	26.31	33.00
			H	22.38	4.94	-4.73	22.58	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	29.8	5.07	-4.67	30.19	33.00
			H	19.01	5.07	-4.67	19.41	33.00
	1880.0	18900	V	28.51	5	-4.71	28.80	33.00
			H	18.42	5	-4.71	18.71	33.00
	1907.5	19175	V	27.22	4.93	-4.74	27.41	33.00
			H	23.70	4.93	-4.74	23.89	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	28.34	5.08	-4.67	28.75	33.00
			H	22.47	5.08	-4.67	22.88	33.00
	1880.0	18900	V	27.53	5.01	-4.7	27.85	33.00
			H	20.96	5.01	-4.7	21.27	33.00
	1905.0	19150	V	28.29	4.95	-4.73	28.51	33.00
			H	22.94	4.95	-4.73	23.16	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	25.51	5.06	-4.68	25.89	33.00
			H	20.95	5.05	-4.68	21.32	33.00
	1880.0	18900	V	29.09	4.99	-4.71	29.38	33.00
			H	22.03	4.99	-4.71	22.32	33.00
	1905.0	19150	V	27.56	4.93	-4.74	27.75	33.00
			H	23.41	4.93	-4.74	23.60	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	26.78	5.08	-4.67	27.19	33.00
			H	22.71	5.08	-4.67	23.13	33.00
	1880.0	18900	V	25.01	5.01	-4.7	25.32	33.00
			H	21.01	5.01	-4.7	21.32	33.00
	1905.0	19150	V	24.46	4.95	-4.73	24.68	33.00
			H	23.1	4.95	-4.73	23.33	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	29.17	5.06	-4.68	29.54	33.00
			H	22.39	5.06	-4.68	22.77	33.00
	1880.0	18900	V	27.03	4.99	-4.71	27.31	33.00
			H	22.08	4.99	-4.71	22.36	33.00
	1905.0	19150	V	25.59	4.93	-4.74	25.78	33.00
			H	23.45	4.93	-4.74	23.64	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	29.38	5.08	-4.67	29.79	33.00
			H	22.41	5.08	-4.67	22.82	33.00
	1880.0	18900	V	27.33	5.02	-4.7	27.66	33.00
			H	21.04	5.02	-4.7	21.37	33.00
	1902.5	19125	V	27.68	4.96	-4.72	27.92	33.00
			H	21.08	4.96	-4.72	21.32	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	27.94	5.04	-4.69	28.30	33.00
			H	20.52	5.04	-4.69	20.88	33.00
	1880.0	18900	V	29.22	4.99	-4.71	29.49	33.00
			H	22.53	4.99	-4.71	22.80	33.00
	1902.5	19125	V	26.36	4.93	-4.74	26.55	33.00
			H	19.49	4.93	-4.74	19.68	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	29.58	5.08	-4.67	29.99	33.00
			H	22.99	5.08	-4.67	23.40	33.00
	1880.0	18900	V	27.36	5.02	-4.7	27.68	33.00
			H	21.11	5.02	-4.7	21.44	33.00
	1902.5	19125	V	28.07	4.96	-4.72	28.30	33.00
			H	21.19	4.96	-4.72	21.43	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	27.67	5.04	-4.69	28.03	33.00
			H	20.81	5.04	-4.69	21.17	33.00
	1880.0	18900	V	29.53	4.99	-4.71	29.81	33.00
			H	22.85	4.99	-4.71	23.12	33.00
	1902.5	19125	V	26.38	4.93	-4.74	26.57	33.00
			H	19.71	4.93	-4.74	19.90	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	29.12	5.08	-4.67	29.53	33.00
			H	22.72	5.08	-4.67	23.13	33.00
	1880.0	18900	V	26.30	5.03	-4.69	26.63	33.00
			H	20.79	5.03	-4.69	21.13	33.00
	1900.0	19100	V	28.96	4.97	-4.72	29.21	33.00
			H	22.10	4.97	-4.72	22.36	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	26.45	5.03	-4.69	26.79	33.00
			H	20.47	5.03	-4.69	20.81	33.00
	1880.0	18900	V	29.1	4.98	-4.71	29.37	33.00
			H	22.63	4.98	-4.71	22.90	33.00
	1900.0	19100	V	26.21	4.93	-4.74	26.40	33.00
			H	19.64	4.93	-4.74	19.83	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	29.83	5.08	-4.67	30.24	33.00
			H	23.33	5.07	-4.67	23.73	33.00
	1880.0	18900	V	26.31	5.02	-4.69	26.64	33.00
			H	20.92	5.02	-4.69	21.25	33.00
	1900.0	19100	V	29.26	4.97	-4.72	29.52	33.00
			H	22.73	4.97	-4.72	22.98	33.00

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	dBd	dB	dBm	dBm
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	26.45	5.03	-4.69	26.79	33.00
			H	20.55	5.03	-4.69	20.89	33.00
	1880.0	18900	V	29.74	4.98	-4.71	30.00	33.00
			H	22.94	4.98	-4.71	23.20	33.00
	1900.0	19100	V	26.03	4.93	-4.74	26.22	33.00
			H	19.54	4.93	-4.74	19.73	33.00

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	23.61	3.91	-3.03	24.49	38.45
			H	22.31	3.91	-3.03	23.19	38.45
	836.5	20525	V	24.37	3.89	-3.06	25.20	38.45
			H	21.82	3.89	-3.06	22.65	38.45
	848.3	20643	V	23.64	3.87	-3.1	24.42	38.45
			H	22.55	3.87	-3.1	23.32	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	24.81	3.91	-3.03	25.68	38.45
			H	22.17	3.91	-3.03	23.05	38.45
	836.5	20525	V	24.26	3.89	-3.07	25.09	38.45
			H	22.44	3.89	-3.07	23.26	38.45
	848.3	20643	V	23.58	3.87	-3.1	24.35	38.45
			H	22.33	3.87	-3.1	23.10	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	24.06	3.91	-3.03	24.93	38.45
			H	22.92	3.91	-3.03	23.80	38.45
	836.5	20525	V	24.07	3.89	-3.06	24.90	38.45
			H	22.06	3.89	-3.06	22.88	38.45
	848.3	20643	V	24.01	3.87	-3.1	24.78	38.45
			H	22.85	3.87	-3.1	23.62	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	25.56	3.91	-3.03	26.44	38.45
			H	23.29	3.91	-3.03	24.17	38.45
	836.5	20525	V	24.75	3.89	-3.07	25.57	38.45
			H	22.34	3.89	-3.07	23.17	38.45
	848.3	20643	V	23.83	3.87	-3.1	24.60	38.45
			H	22.82	3.87	-3.1	23.58	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	23.14	3.91	-3.03	24.02	38.45
			H	24.54	3.91	-3.03	25.41	38.45
	836.5	20525	V	20.64	3.89	-3.06	21.47	38.45
			H	22.81	3.89	-3.06	23.63	38.45
	847.5	20635	V	22.64	3.88	-3.1	23.42	38.45
			H	24.40	3.88	-3.09	25.18	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	22.83	3.9	-3.03	23.70	38.45
			H	24.36	3.9	-3.03	25.23	38.45
	836.5	20525	V	21.85	3.89	-3.07	22.67	38.45
			H	23.52	3.89	-3.07	24.34	38.45
	847.5	20635	V	22.08	3.87	-3.1	22.85	38.45
			H	23.70	3.87	-3.1	24.47	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	23.68	3.91	-3.03	24.56	38.45
			H	24.76	3.91	-3.03	25.64	38.45
	836.5	20525	V	20.95	3.89	-3.06	21.78	38.45
			H	22.89	3.89	-3.06	23.72	38.45
	847.5	20635	V	22.92	3.88	-3.1	23.70	38.45
			H	24.61	3.88	-3.1	25.39	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	23.29	3.9	-3.03	24.16	38.45
			H	24.72	3.9	-3.03	25.59	38.45
	836.5	20525	V	21.64	3.89	-3.07	22.45	38.45
			H	23.75	3.89	-3.07	24.57	38.45
	847.5	20635	V	22.13	3.87	-3.1	22.90	38.45
			H	23.87	3.87	-3.1	24.64	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	23.81	3.91	-3.03	24.68	38.45
			H	24.53	3.91	-3.03	25.41	38.45
	836.5	20525	V	22.9	3.89	-3.06	23.73	38.45
			H	22.68	3.89	-3.06	23.52	38.45
	846.5	20625	V	24.58	3.88	-3.09	25.37	38.45
			H	24.48	3.88	-3.09	25.27	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	22.68	3.9	-3.04	23.54	38.45
			H	23.19	3.9	-3.04	24.05	38.45
	836.5	20525	V	24.81	3.89	-3.07	25.62	38.45
			H	24.08	3.89	-3.07	24.90	38.45
	846.5	20625	V	22.88	3.87	-3.1	23.65	38.45
			H	23.30	3.87	-3.1	24.07	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	24.21	3.91	-3.03	25.08	38.45
			H	24.69	3.91	-3.03	25.57	38.45
	836.5	20525	V	22.79	3.89	-3.06	23.62	38.45
			H	22.90	3.89	-3.06	23.73	38.45
	846.5	20625	V	24.71	3.88	-3.09	25.50	38.45
			H	24.93	3.88	-3.09	25.72	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	23	3.9	-3.04	23.86	38.45
			H	23.31	3.9	-3.04	24.17	38.45
	836.5	20525	V	24.32	3.89	-3.07	25.13	38.45
			H	24.24	3.89	-3.07	25.05	38.45
	846.5	20625	V	23.10	3.87	-3.1	23.87	38.45
			H	23.59	3.87	-3.1	24.36	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	24.79	3.91	-3.03	25.66	38.45
			H	20.58	3.91	-3.03	21.45	38.45
	836.5	20525	V	23.94	3.89	-3.05	24.78	38.45
			H	21.11	3.89	-3.06	21.95	38.45
	844.0	20600	V	24.03	3.88	-3.08	24.84	38.45
			H	22.04	3.88	-3.08	22.85	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	23.48	3.89	-3.06	24.32	38.45
			H	20.82	3.89	-3.06	21.65	38.45
	836.5	20525	V	24.04	3.88	-3.08	24.84	38.45
			H	22.52	3.88	-3.08	23.33	38.45
	844.0	20600	V	22.43	3.87	-3.1	23.21	38.45
			H	22.35	3.87	-3.1	23.12	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	25.2	3.9	-3.03	26.07	38.45
			H	21.35	3.9	-3.03	22.22	38.45
	836.5	20525	V	24.20	3.9	-3.05	25.04	38.45
			H	21.33	3.9	-3.05	22.17	38.45
	844.0	20600	V	24.21	3.88	-3.08	25.01	38.45
			H	22.26	3.88	-3.08	23.07	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	23.81	3.89	-3.06	24.65	38.45
			H	21.20	3.89	-3.05	22.04	38.45
	836.5	20525	V	24.13	3.88	-3.08	24.94	38.45
			H	22.72	3.88	-3.08	23.52	38.45
	844.0	20600	V	22.26	3.87	-3.1	23.03	38.45
			H	22.10	3.87	-3.1	22.88	38.45

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	dBd	dB	dBm	dBm
BAND 4 BW: 1.4M/ QPSK RB: 1,0	1710.7	19957	V	25.00	5.46	-4.5	25.96	30.00
			H	22.63	5.46	-4.5	23.59	30.00
	1732.5	20175	V	23.97	5.4	-4.52	24.85	30.00
			H	20.38	5.4	-4.52	21.26	30.00
	1754.3	20393	V	26.96	5.34	-4.55	27.75	30.00
			H	21.98	5.34	-4.55	22.77	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	dBd	dB	dBm	dBm
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	24.98	5.46	-4.5	25.94	30.00
			H	22.82	5.46	-4.5	23.78	30.00
	1732.5	20175	V	23.95	5.4	-4.53	24.82	30.00
			H	20.86	5.4	-4.53	21.73	30.00
	1754.3	20393	V	26.91	5.34	-4.55	27.70	30.00
			H	22.07	5.34	-4.55	22.86	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	dBd	dB	dBm	dBm
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	25.03	5.46	-4.5	26.00	30.00
			H	22.9	5.46	-4.5	23.87	30.00
	1732.5	20175	V	23.7	5.4	-4.52	24.57	30.00
			H	20.41	5.4	-4.52	21.29	30.00
	1754.3	20393	V	27.00	5.34	-4.55	27.79	30.00
			H	22.31	5.34	-4.55	23.09	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	dBd	dB	dBm	dBm
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	25.15	5.46	-4.5	26.11	30.00
			H	23.03	5.46	-4.5	23.99	30.00
	1732.5	20175	V	23.62	5.4	-4.53	24.49	30.00
			H	20.14	5.4	-4.53	21.01	30.00
	1754.3	20393	V	27.13	5.34	-4.55	27.92	30.00
			H	21.60	5.34	-4.55	22.39	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	dBd	dB	dBm	dBm
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	25.23	5.46	-4.5	26.20	30.00
			H	23.04	5.46	-4.5	24.00	30.00
	1732.5	20175	V	26.63	5.4	-4.52	27.51	30.00
			H	22.85	5.4	-4.52	23.73	30.00
	1753.5	20385	V	26.94	5.34	-4.55	27.73	30.00
			H	22.56	5.34	-4.55	23.35	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	dBd	dB	dBm	dBm
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	25.32	5.46	-4.5	26.27	30.00
			H	23.43	5.46	-4.5	24.38	30.00
	1732.5	20175	V	26.39	5.4	-4.53	27.26	30.00
			H	22.50	5.4	-4.53	23.37	30.00
	1753.5	20385	V	27.01	5.34	-4.55	27.79	30.00
			H	22.69	5.34	-4.55	23.48	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	dBd	dB	dBm	dBm
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	25.38	5.46	-4.5	26.35	30.00
			H	23.07	5.46	-4.5	24.04	30.00
	1732.5	20175	V	27.03	5.4	-4.52	27.91	30.00
			H	23.09	5.4	-4.52	23.97	30.00
	1753.5	20385	V	26.66	5.35	-4.55	27.46	30.00
			H	22.45	5.34	-4.55	23.24	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	dBd	dB	dBm	dBm
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	25.05	5.46	-4.5	26.00	30.00
			H	23.58	5.45	-4.5	24.53	30.00
	1732.5	20175	V	26.58	5.4	-4.53	27.45	30.00
			H	22.69	5.4	-4.53	23.56	30.00
	1753.5	20385	V	27.17	5.34	-4.55	27.96	30.00
			H	22.42	5.34	-4.55	23.20	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	dBd	dB	dBm	dBm
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	24.19	5.46	-4.5	25.15	30.00
			H	21.40	5.46	-4.5	22.37	30.00
	1732.5	20175	V	27.56	5.4	-4.52	28.45	30.00
			H	22.66	5.41	-4.52	23.55	30.00
	1752.5	20375	V	27.16	5.35	-4.55	27.96	30.00
			H	21.44	5.35	-4.55	22.24	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	dBd	dB	dBm	dBm
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	24.81	5.45	-4.5	25.76	30.00
			H	21.36	5.45	-4.5	22.31	30.00
	1732.5	20175	V	26.86	5.39	-4.53	27.72	30.00
			H	21.94	5.39	-4.53	22.80	30.00
	1752.5	20375	V	27.12	5.34	-4.55	27.91	30.00
			H	21.68	5.34	-4.55	22.46	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	dBd	dB	dBm	dBm
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	24.25	5.46	-4.5	25.21	30.00
			H	22.32	5.46	-4.5	23.29	30.00
	1732.5	20175	V	27.07	5.41	-4.52	27.96	30.00
			H	21.88	5.41	-4.52	22.76	30.00
	1752.5	20375	V	27.38	5.35	-4.55	28.18	30.00
			H	21.44	5.35	-4.55	22.25	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	dBd	dB	dBm	dBm
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	25.25	5.45	-4.5	26.20	30.00
			H	22.78	5.45	-4.5	23.73	30.00
	1732.5	20175	V	26.57	5.39	-4.53	27.43	30.00
			H	21.78	5.4	-4.53	22.65	30.00
	1752.5	20375	V	27.37	5.34	-4.55	28.15	30.00
			H	21.71	5.34	-4.55	22.50	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	dBd	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	25.08	5.45	-4.5	26.04	30.00
			H	22.27	5.45	-4.5	23.22	30.00
	1732.5	20175	V	27.51	5.41	-4.52	28.40	30.00
			H	22.43	5.41	-4.52	23.32	30.00
	1750.0	20350	V	26.96	5.36	-4.54	27.78	30.00
			H	21.34	5.36	-4.54	22.16	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	dBd	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	26.07	5.44	-4.51	27.01	30.00
			H	22.58	5.44	-4.51	23.51	30.00
	1732.5	20175	V	26.66	5.39	-4.53	27.52	30.00
			H	21.83	5.39	-4.53	22.69	30.00
	1750.0	20350	V	27.01	5.34	-4.55	27.80	30.00
			H	21.84	5.34	-4.55	22.63	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	dBd	dB	dBm	dBm
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	25.48	5.45	-4.5	26.43	30.00
			H	23.04	5.45	-4.5	23.99	30.00
	1732.5	20175	V	27.63	5.41	-4.52	28.52	30.00
			H	21.38	5.41	-4.52	22.27	30.00
	1750.0	20350	V	26.75	5.36	-4.54	27.57	30.00
			H	21.06	5.36	-4.54	21.89	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	dBd	dB	dBm	dBm
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	26.44	5.44	-4.51	27.37	30.00
			H	22.64	5.44	-4.51	23.57	30.00
	1732.5	20175	V	26.49	5.39	-4.53	27.35	30.00
			H	21.83	5.39	-4.53	22.68	30.00
	1750.0	20350	V	27.22	5.34	-4.55	28.01	30.00
			H	22.07	5.34	-4.55	22.85	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	dBd	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	25.32	5.46	-4.5	26.28	30.00
			H	22.58	5.46	-4.5	23.55	30.00
	1732.5	20175	V	28.27	5.42	-4.52	29.17	30.00
			H	22.69	5.42	-4.52	23.59	30.00
	1747.5	20325	V	26.38	5.38	-4.54	27.22	30.00
			H	22.12	5.38	-4.54	22.96	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	dBd	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	27.96	5.42	-4.52	28.86	30.00
			H	21.93	5.42	-4.51	22.84	30.00
	1732.5	20175	V	26.68	5.38	-4.53	27.53	30.00
			H	22.27	5.38	-4.53	23.12	30.00
	1747.5	20325	V	27.37	5.34	-4.55	28.15	30.00
			H	22.85	5.34	-4.55	23.63	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	dBd	dB	dBm	dBm
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	24.17	5.46	-4.5	25.13	30.00
			H	18.81	5.46	-4.5	19.76	30.00
	1732.5	20175	V	27.87	5.42	-4.52	28.77	30.00
			H	22.77	5.42	-4.52	23.67	30.00
	1747.5	20325	V	26.40	5.37	-4.54	27.23	30.00
			H	22.45	5.38	-4.54	23.29	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	dBd	dB	dBm	dBm
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	27.54	5.42	-4.51	28.45	30.00
			H	21.55	5.42	-4.51	22.45	30.00
	1732.5	20175	V	26.50	5.38	-4.53	27.34	30.00
			H	22.26	5.38	-4.53	23.11	30.00
	1747.5	20325	V	27.60	5.34	-4.55	28.39	30.00
			H	23.15	5.34	-4.55	23.93	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	dBd	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	24.38	5.46	-4.5	25.34	30.00
			H	21.59	5.46	-4.5	22.55	30.00
	1732.5	20175	V	26.97	5.42	-4.51	27.88	30.00
			H	22.67	5.43	-4.51	23.59	30.00
	1745.0	20300	V	27.11	5.39	-4.53	27.97	30.00
			H	22.27	5.39	-4.53	23.13	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	dBd	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	27.55	5.41	-4.52	28.44	30.00
			H	22.54	5.41	-4.52	23.43	30.00
	1732.5	20175	V	26.47	5.37	-4.54	27.31	30.00
			H	22.14	5.38	-4.54	22.98	30.00
	1745.0	20300	V	26.70	5.34	-4.55	27.49	30.00
			H	23.08	5.34	-4.55	23.87	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	dBd	dB	dBm	dBm
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	25.69	5.46	-4.5	26.65	30.00
			H	22.22	5.45	-4.5	23.18	30.00
	1732.5	20175	V	27.95	5.43	-4.51	28.86	30.00
			H	22.60	5.43	-4.51	23.51	30.00
	1745.0	20300	V	26.58	5.39	-4.53	27.44	30.00
			H	22.41	5.39	-4.53	23.27	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	dBd	dB	dBm	dBm
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	27.50	5.41	-4.52	28.39	30.00
			H	22.69	5.41	-4.52	23.58	30.00
	1732.5	20175	V	26.63	5.38	-4.54	27.47	30.00
			H	22.30	5.38	-4.53	23.14	30.00
	1745.0	20300	V	26.87	5.34	-4.55	27.66	30.00
			H	23.08	5.34	-4.55	23.87	30.00

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	dBd	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	23.53	5.8	-5.48	23.85	33.01
			H	18.32	5.8	-5.48	18.64	33.01
	2535.0	21100	V	22.71	5.86	-5.52	23.05	33.01
			H	17.97	5.86	-5.52	18.31	33.01
	2567.5	21425	V	23.46	5.93	-5.57	23.82	33.01
			H	22.55	3.87	-3.1	23.32	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	dBd	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	23.95	5.81	-5.49	24.27	33.01
			H	18.35	5.81	-5.49	18.67	33.01
	2535.0	21100	V	22.40	5.87	-5.53	22.75	33.01
			H	18.66	5.87	-5.53	19.00	33.01
	2567.5	21425	V	23.04	5.93	-5.57	23.40	33.01
			H	16.44	5.93	-5.57	16.80	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	dBd	dB	dBm	dBm
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	23.41	5.8	-5.48	23.73	33.01
			H	18.39	5.8	-5.48	18.71	33.01
	2535.0	21100	V	23.36	5.86	-5.52	23.70	33.01
			H	17.95	5.86	-5.52	18.29	33.01
	2567.5	21425	V	23.40	5.93	-5.57	23.76	33.01
			H	17.31	5.93	-5.57	17.67	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	dBd	dB	dBm	dBm
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	23.98	5.81	-5.49	24.30	33.01
			H	18.74	5.81	-5.49	19.06	33.01
	2535.0	21100	V	22.81	5.87	-5.53	23.15	33.01
			H	18.88	5.87	-5.53	19.23	33.01
	2567.5	21425	V	23.57	5.93	-5.57	23.93	33.01
			H	16.67	5.93	-5.57	17.03	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	dBd	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,0	2505.0	20800	V	23.24	5.8	-5.48	23.56	33.01
			H	18.52	5.8	-5.48	18.84	33.01
	2535.0	21100	V	22.08	5.86	-5.52	22.41	33.01
			H	18.44	5.86	-5.52	18.78	33.01
	2565.0	21400	V	22.39	5.92	-5.56	22.75	33.01
			H	18.01	5.92	-5.56	18.37	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	dBd	dB	dBm	dBm
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	22.62	5.82	-5.49	22.95	33.01
			H	18.55	5.82	-5.49	18.88	33.01
	2535.0	21100	V	22.81	5.88	-5.53	23.16	33.01
			H	17.59	5.88	-5.53	17.93	33.01
	2565.0	21400	V	23.00	5.93	-5.57	23.36	33.01
			H	18.62	5.93	-5.57	18.98	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	dBd	dB	dBm	dBm
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	23.10	5.8	-5.48	23.42	33.01
			H	18.47	5.8	-5.48	18.79	33.01
	2535.0	21100	V	22.97	5.86	-5.52	23.31	33.01
			H	18.95	5.86	-5.52	19.28	33.01
	2565.0	21400	V	22.42	5.92	-5.56	22.78	33.01
			H	18.03	5.92	-5.56	18.39	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	dBd	dB	dBm	dBm
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	22.90	5.82	-5.49	23.23	33.01
			H	18.86	5.82	-5.49	19.18	33.01
	2535.0	21100	V	22.79	5.88	-5.53	23.13	33.01
			H	17.85	5.88	-5.53	18.20	33.01
	2565.0	21400	V	23.18	5.93	-5.57	23.55	33.01
			H	18.78	5.93	-5.57	19.14	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	dBd	dB	dBm	dBm
BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	22.91	5.8	-5.48	23.23	33.01
			H	17.97	5.8	-5.48	18.29	33.01
	2535.0	21100	V	21.74	5.85	-5.52	22.07	33.01
			H	19.53	5.85	-5.52	19.87	33.01
	2562.5	21375	V	21.25	5.91	-5.55	21.60	33.01
			H	17.39	5.91	-5.55	17.74	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	dBd	dB	dBm	dBm
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	20.28	5.83	-5.5	20.61	33.01
			H	16.45	5.83	-5.5	16.77	33.01
	2535.0	21100	V	21.37	5.88	-5.54	21.71	33.01
			H	18.90	5.88	-5.54	19.25	33.01
	2562.5	21375	V	22.56	5.93	-5.57	22.92	33.01
			H	16.24	5.93	-5.57	16.60	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	dBd	dB	dBm	dBm
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	23.06	5.81	-5.48	23.38	33.01
			H	18.05	5.8	-5.48	18.37	33.01
	2535.0	21100	V	22.31	5.86	-5.52	22.65	33.01
			H	19.68	5.85	-5.52	20.02	33.01
	2562.5	21375	V	21.50	5.91	-5.55	21.86	33.01
			H	17.40	5.91	-5.55	17.76	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	dBd	dB	dBm	dBm
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	20.55	5.83	-5.5	20.87	33.01
			H	16.59	5.83	-5.5	16.92	33.01
	2535.0	21100	V	21.52	5.88	-5.54	21.86	33.01
			H	19.07	5.88	-5.54	19.41	33.01
	2562.5	21375	V	22.71	5.93	-5.57	23.07	33.01
			H	16.49	5.93	-5.57	16.85	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	dBd	dB	dBm	dBm
BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	22.94	5.8	-5.48	23.26	33.01
			H	17.57	5.8	-5.48	17.89	33.01
	2535.0	21100	V	21.70	5.85	-5.52	22.04	33.01
			H	19.13	5.85	-5.51	19.47	33.01
	2560.0	21350	V	20.96	5.9	-5.55	21.31	33.01
			H	18.83	5.9	-5.55	19.18	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	dBd	dB	dBm	dBm
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	20.38	5.84	-5.5	20.71	33.01
			H	17.57	5.84	-5.5	17.90	33.01
	2535.0	21100	V	20.90	5.89	-5.54	21.25	33.01
			H	16.89	5.88	-5.54	17.24	33.01
	2560.0	21350	V	22.55	5.93	-5.57	22.91	33.01
			H	19.40	5.93	-5.57	19.77	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	dBd	dB	dBm	dBm
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	23.46	5.8	-5.48	23.78	33.01
			H	18.02	5.81	-5.48	18.34	33.01
	2535.0	21100	V	22.16	5.85	-5.51	22.49	33.01
			H	19.34	5.85	-5.51	19.67	33.01
	2560.0	21350	V	21.21	5.9	-5.55	21.56	33.01
			H	19.06	5.9	-5.55	19.41	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	dBd	dB	dBm	dBm
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	20.64	5.84	-5.51	20.97	33.01
			H	17.83	5.84	-5.5	18.16	33.01
	2535.0	21100	V	21.34	5.88	-5.54	21.69	33.01
			H	17.21	5.88	-5.54	17.55	33.01
	2560.0	21350	V	22.87	5.93	-5.57	23.23	33.01
			H	19.63	5.93	-5.57	19.99	33.01

Remark :

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

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BAND 17 / 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 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	22.58	3.86	-2.75	23.69	44.77
			H	14.93	3.86	-2.75	16.04	44.77
	710.0	23790	V	23.43	3.85	-2.76	24.53	44.77
			H	16.33	3.85	-2.76	17.42	44.77
	713.5	23825	V	22.86	3.84	-2.76	23.94	44.77
			H	15.41	3.84	-2.76	16.48	44.77

BAND 17 / 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 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	23.37	3.85	-2.76	24.46	44.77
			H	15.78	3.85	-2.76	16.87	44.77
	710.0	23790	V	22.50	3.83	-2.77	23.56	44.77
			H	15.03	3.83	-2.76	16.10	44.77
	713.5	23825	V	22.04	3.82	-2.77	23.08	44.77
			H	14.07	3.82	-2.77	15.12	44.77

Remark :

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

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BAND 17 / 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 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	22.30	3.86	-2.75	23.42	44.77
			H	14.92	3.86	-2.75	16.03	44.77
	710.0	23790	V	24.04	3.85	-2.76	25.13	44.77
			H	16.14	3.85	-2.76	17.24	44.77
	713.5	23825	V	22.68	3.84	-2.76	23.76	44.77
			H	15.55	3.84	-2.76	16.62	44.77

BAND 17 / 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 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	23.66	3.85	-2.76	24.75	44.77
			H	16.71	3.85	-2.76	17.81	44.77
	710.0	23790	V	22.72	3.84	-2.76	23.79	44.77
			H	14.70	3.83	-2.77	15.77	44.77
	713.5	23825	V	22.17	3.82	-2.77	23.22	44.77
			H	13.96	3.82	-2.77	15.01	44.77

Remark :

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

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BAND 17 / 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 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	22.74	3.86	-2.75	23.85	44.77
			H	15.17	3.86	-2.75	16.28	44.77
	710.0	23790	V	23.00	3.86	-2.75	24.11	44.77
			H	15.43	3.86	-2.75	16.53	44.77
	711.0	23800	V	23.35	3.85	-2.75	24.45	44.77
			H	15.72	3.85	-2.75	16.82	44.77

BAND 17 / 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 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	22.14	3.83	-2.77	23.20	44.77
			H	14.02	3.83	-2.77	15.08	44.77
	710.0	23790	V	21.82	3.82	-2.77	22.88	44.77
			H	13.85	3.83	-2.77	14.91	44.77
	711.0	23800	V	22.21	3.82	-2.77	23.25	44.77
			H	13.70	3.82	-2.77	14.75	44.77

Remark :

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

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BAND 17 / 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 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	22.21	3.86	-2.75	23.33	44.77
			H	14.71	3.86	-2.75	15.82	44.77
	710.0	23790	V	22.77	3.86	-2.75	23.87	44.77
			H	15.30	3.86	-2.75	16.41	44.77
	711.0	23800	V	23.46	3.85	-2.75	24.56	44.77
			H	15.30	3.85	-2.75	16.40	44.77

BAND 17 / 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 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	22.04	3.83	-2.77	23.10	44.77
			H	13.95	3.83	-2.77	15.01	44.77
	710.0	23790	V	21.56	3.83	-2.77	22.62	44.77
			H	13.03	3.82	-2.77	14.08	44.77
	711.0	23800	V	22.10	3.82	-2.77	23.15	44.77
			H	13.85	3.82	-2.77	14.90	44.77

Remark :

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

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9. 99% OCCUPIED BANDWIDTH MEASUREMENT

9.1. Standard Applicable:

According to §FCC 2.1049.

9.2. Test Set-up:

Refer to section 5.2 in this report

9.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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9.5. Measurement Result:

99% Bandwidth

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.243
	836.60	190	0.239
	848.80	251	0.240

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.242
	1880.00	661	0.242
	1909.80	810	0.240

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.242
	836.60	190	0.238
	848.80	251	0.249

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.237
	1880.00	661	0.240
	1909.80	810	0.244

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.1377
	1880.00	9400	4.1389
	1907.60	9538	4.1406

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1375
	836.00	4180	4.1439
	846.60	4233	4.1448

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.4	9262	4.1306
	1880.0	9400	4.1515
	1907.6	9538	4.1485

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1336
	836.60	4183	4.1379
	846.60	4233	4.1329

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.4	9262	4.1381
	1880.0	9400	4.1181
	1907.6	9538	4.1430

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1344
	836.60	4183	4.1340
	846.60	4233	4.1174

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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	1.1078
	1880.0	18900	1.1072
	1909.3	19193	1.1077

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 2 (16QAM RB Number: 6 Offset: 0)	1850.7	18607	1.1054
	1880.0	18900	1.1087
	1909.3	19193	1.1090

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0)	1851.5	18615	2.7089
	1880.0	18900	2.7037
	1908.5	19185	2.7041

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 2 (16QAM RB Number: 15 Offset: 0)	1851.5	18615	2.7155
	1880.0	18900	2.7209
	1908.5	19185	2.7174

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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	4.5038
	1880.0	18900	4.4975
	1907.5	19175	4.5117

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 2 (16QAM RB Number: 25 Offset: 0)	1852.5	18625	4.4884
	1880.0	18900	4.5035
	1907.5	19175	4.4927

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0)	1855.0	18650	8.9747
	1880.0	18900	9.0055
	1905.0	19150	8.9654

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 2 (16QAM RB Number: 50 Offset: 0)	1855.0	18650	8.9649
	1880.0	18900	8.9847
	1905.0	19150	8.9558

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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	13.4823
	1880.0	18900	13.5396
	1902.5	19125	13.4998

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 2 (16QAM RB Number: 75 Offset: 0)	1857.5	18675	13.4872
	1880.0	18900	13.5440
	1902.5	19125	13.4549

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0)	1860.0	18700	17.9618
	1880.0	18900	18.0221
	1900.0	19100	17.9416

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 2 (16QAM RB Number: 100 Offset: 0)	1860.0	18700	17.9356
	1880.0	18900	17.9645
	1900.0	19100	17.8593

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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	1.1055
	836.5	20525	1.0959
	848.3	20643	1.1003

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 5 (16QAM RB Number: 6 Offset: 0)	824.7	20407	1.1030
	836.5	20525	1.1079
	848.3	20643	1.1064

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0)	825.5	20415	2.7186
	836.5	20525	2.7071
	847.5	20635	2.7083

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 5 (16QAM RB Number: 15 Offset: 0)	825.5	20415	2.7036
	836.5	20525	2.7139
	847.5	20635	2.7163

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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	4.5203
	836.5	20525	4.5071
	846.5	20625	4.5029

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 5 (16QAM RB Number: 25 Offset: 0)	826.5	20425	4.5024
	836.5	20525	4.5064
	846.5	20625	4.5069

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0)	829.0	20450	9.0105
	836.5	20525	8.9712
	844.0	20600	8.9895

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 5 (16QAM RB Number: 50 Offset: 0)	829.0	20450	9.0099
	836.5	20525	8.9656
	844.0	20600	8.9961

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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	1.1014
	1732.5	20175	1.1012
	1754.3	20393	1.0966

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (16QAM RB Number: 6 Offset: 0)	1710.7	19957	1.1081
	1732.5	20175	1.0998
	1754.3	20393	1.1063

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0)	1711.5	19965	2.7052
	1732.5	20175	2.7270
	1753.5	20385	2.7103

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (16QAM RB Number: 15 Offset: 0)	1711.5	19965	2.7069
	1732.5	20175	2.7161
	1753.5	20385	2.7114

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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	4.5031
	1732.5	20175	4.4997
	1752.5	20375	4.4952

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 4 (16QAM RB Number: 25 Offset: 0)	1710.7	19957	4.4809
	1732.5	20175	4.4977
	1752.5	20375	4.5016

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0)	1715.0	20000	8.9940
	1732.5	20175	9.0011
	1750.0	20350	8.9993

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (16QAM RB Number: 50 Offset: 0)	1715.0	20000	8.9678
	1732.5	20175	8.9945
	1750.0	20350	8.9781

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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	13.4439
	1732.5	20175	13.4156
	1747.5	20325	13.4753

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 4 (16QAM RB Number: 75 Offset: 0)	1717.5	20025	13.5167
	1732.5	20175	13.4454
	1747.5	20325	13.4853

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0)	1720.0	20050	17.9896
	1732.5	20175	17.8797
	1745.0	20300	17.9677

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 4 (16QAM RB Number: 100 Offset: 0)	1720.0	20050	17.9738
	1732.5	20175	17.9592
	1745.0	20300	17.9401

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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	4.5004
	2535.0	21100	4.5078
	2567.5	21425	4.4874

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 7 (16QAM RB Number: 25 Offset: 0)	2502.5	20775	4.4995
	2535.0	21100	4.5045
	2567.5	21425	4.5081

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0)	2505.0	20800	9.0015
	2535.0	21100	8.9747
	2565.0	21400	8.9887

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0)	2505.0	20800	8.9667
	2535.0	21100	8.9937
	2565.0	21400	8.9865

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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	13.4644
	2535.0	21100	13.4956
	2562.5	21375	13.5658

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0)	2507.5	20825	13.4929
	2535.0	21100	13.4776
	2562.5	21375	13.4971

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0)	2510.0	20850	17.9024
	2535.0	21100	17.9258
	2560.0	21350	17.9616

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0)	2510.0	20850	17.9055
	2535.0	21100	17.9321
	2560.0	21350	17.9611

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0)	706.5	23775	4.4829
	710.0	23790	4.5172
	713.5	23825	4.5059

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 17 (16QAM RB Number: 25 Offset: 0)	706.5	23775	4.4885
	710.0	23790	4.5062
	713.5	23825	4.4991

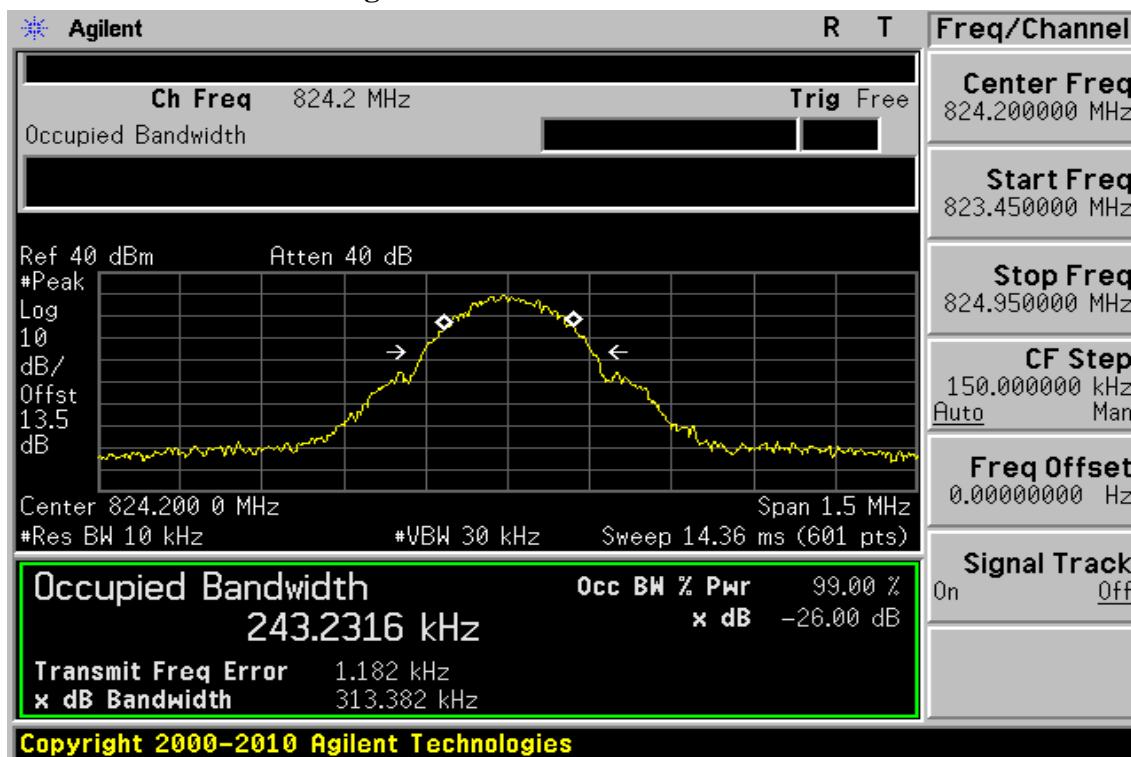
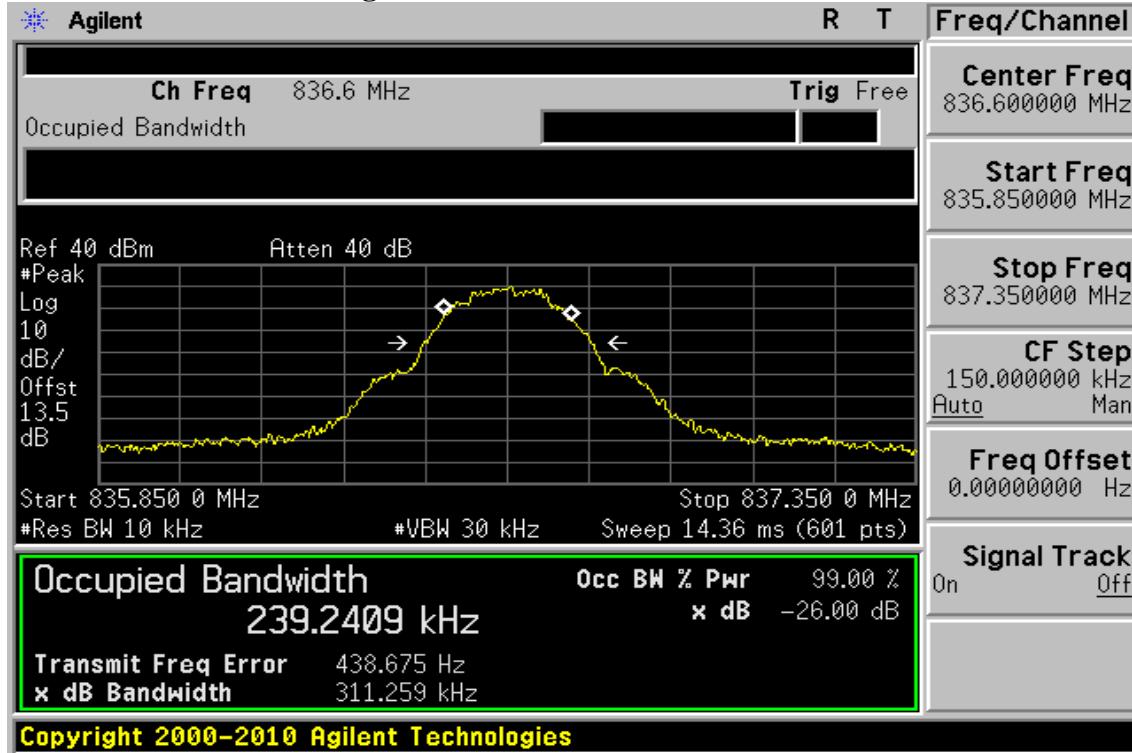
EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0)	709.0	23780	8.9650
	710.0	23790	8.9761
	711.0	23800	8.9720

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 17 (16QAM RB Number: 50 Offset: 0)	709.0	23780	8.9411
	710.0	23790	8.9739
	711.0	23800	8.9489

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99% Bandwidth Test Data**Figure 9-1: GPRS 850 Channel Low****Figure 9-2: GPRS 850 Channel Mid**

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Figure 9-3: GPRS 850 Channel High

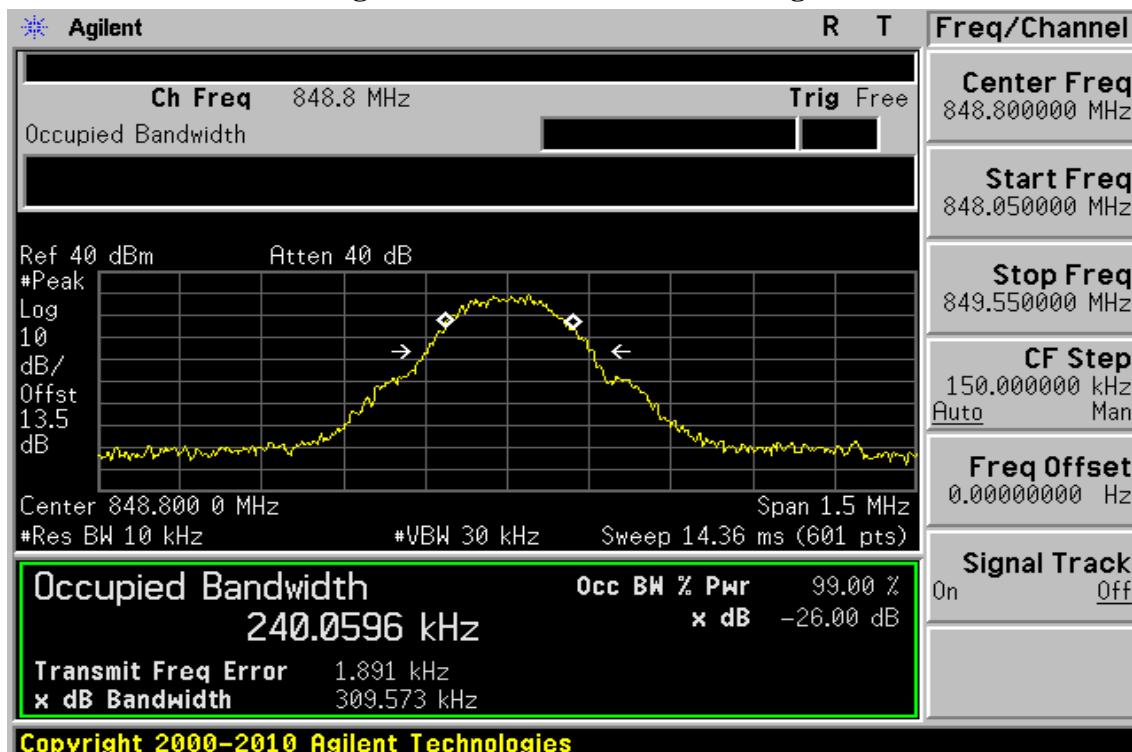
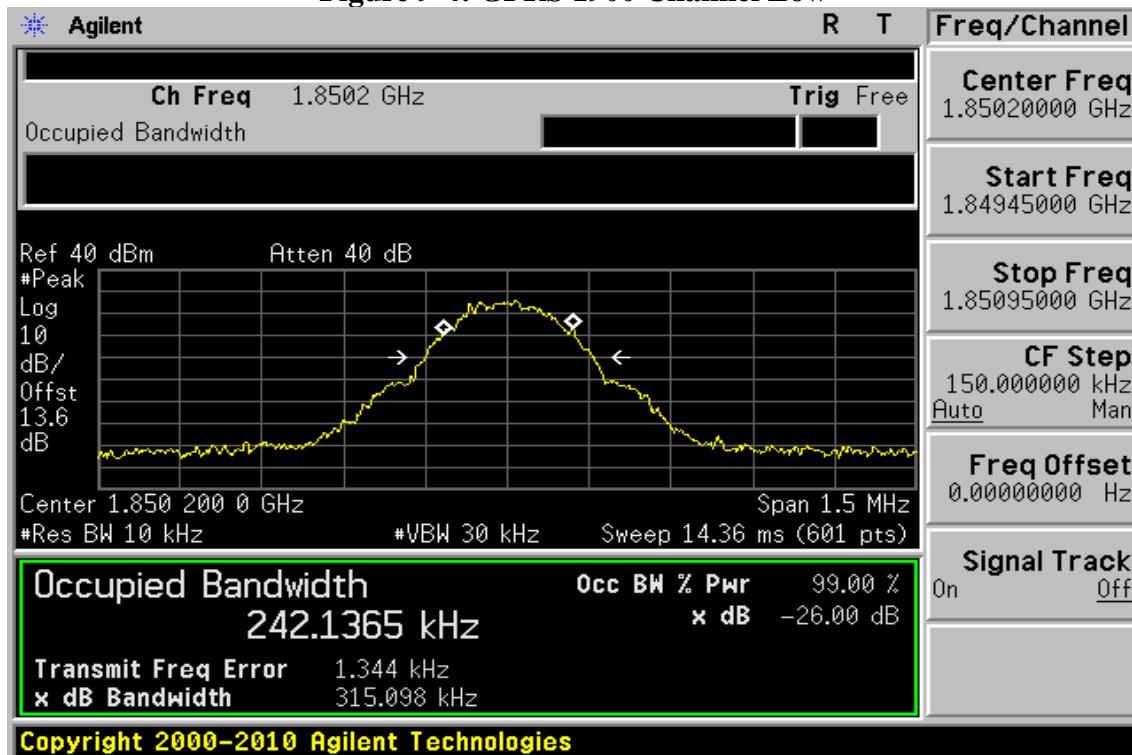


Figure 9-4: GPRS 1900 Channel Low



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Figure 9-5: GPRS 1900 Channel Mid

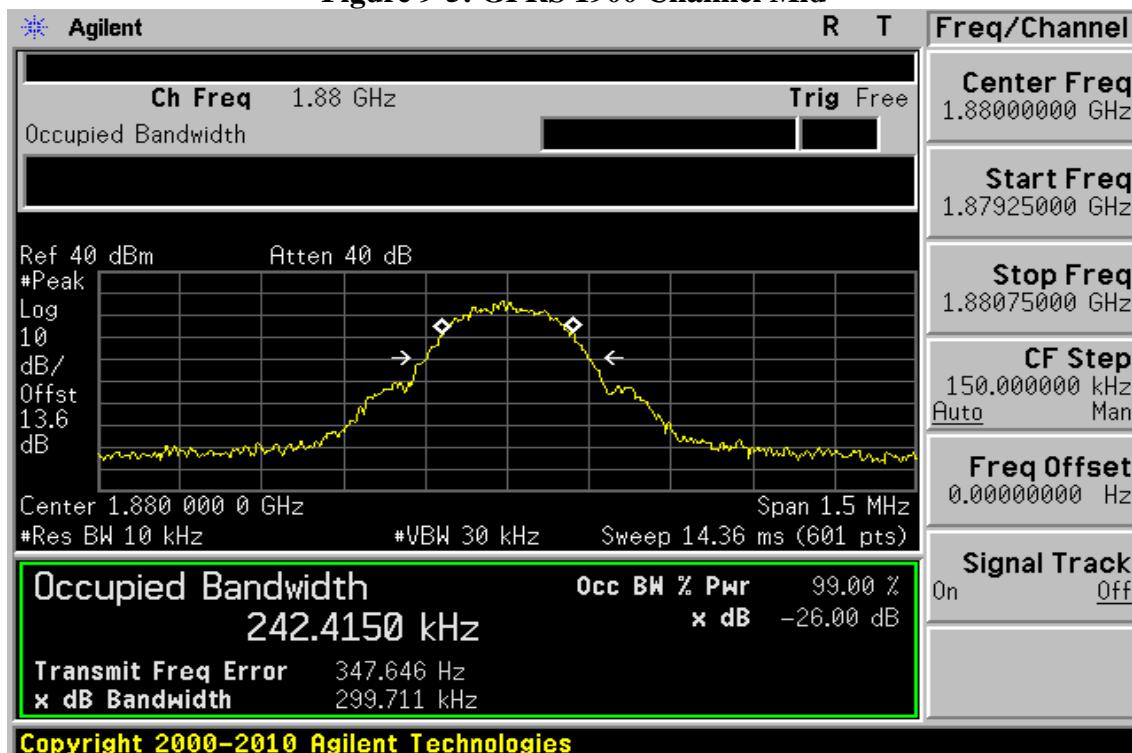
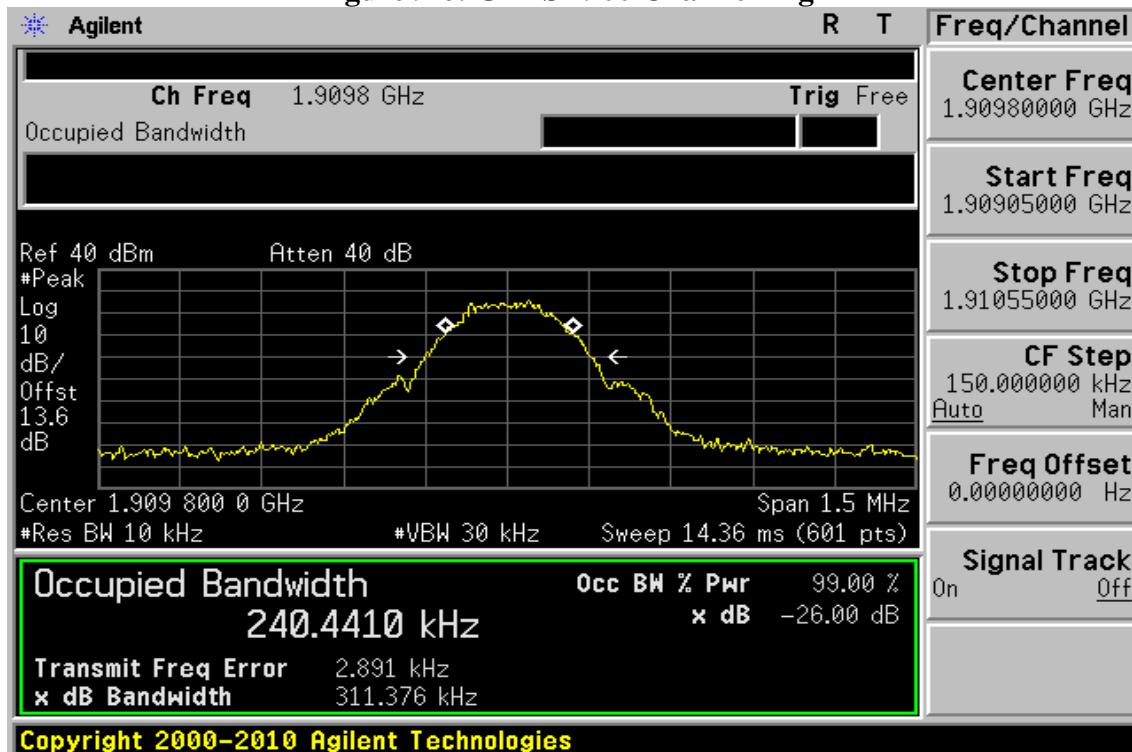


Figure 9-6: GPRS 1900 Channel High



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Figure 9-7: EDGE 850 Channel Low

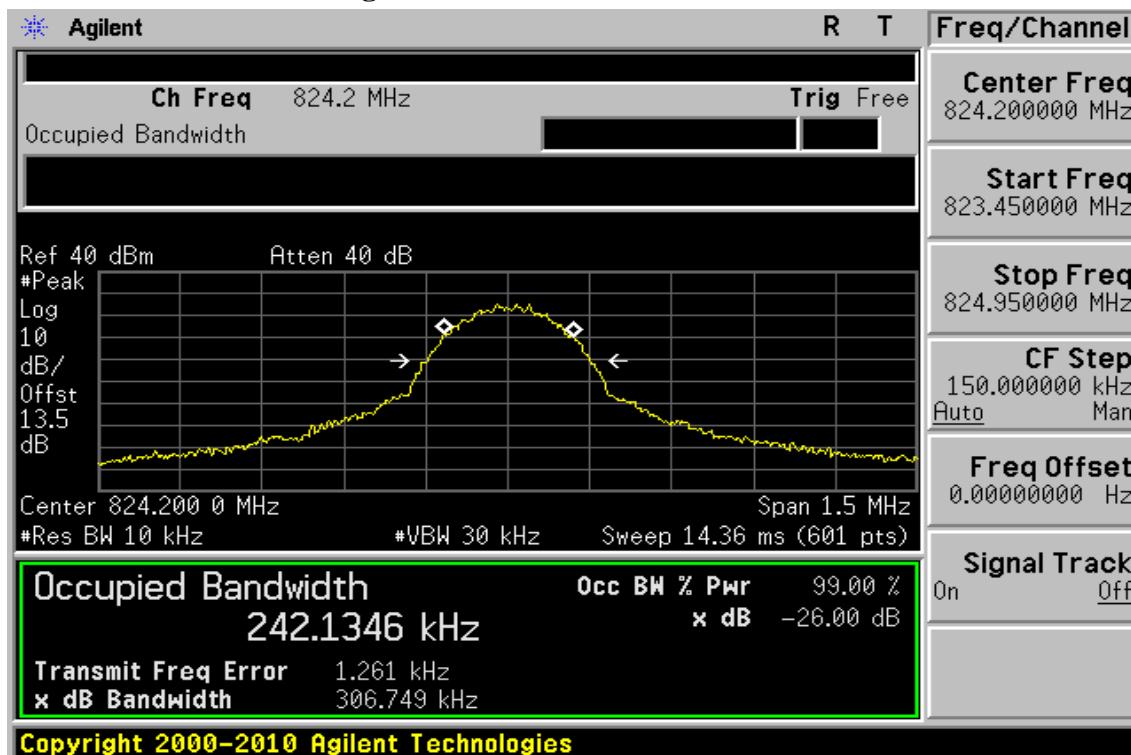
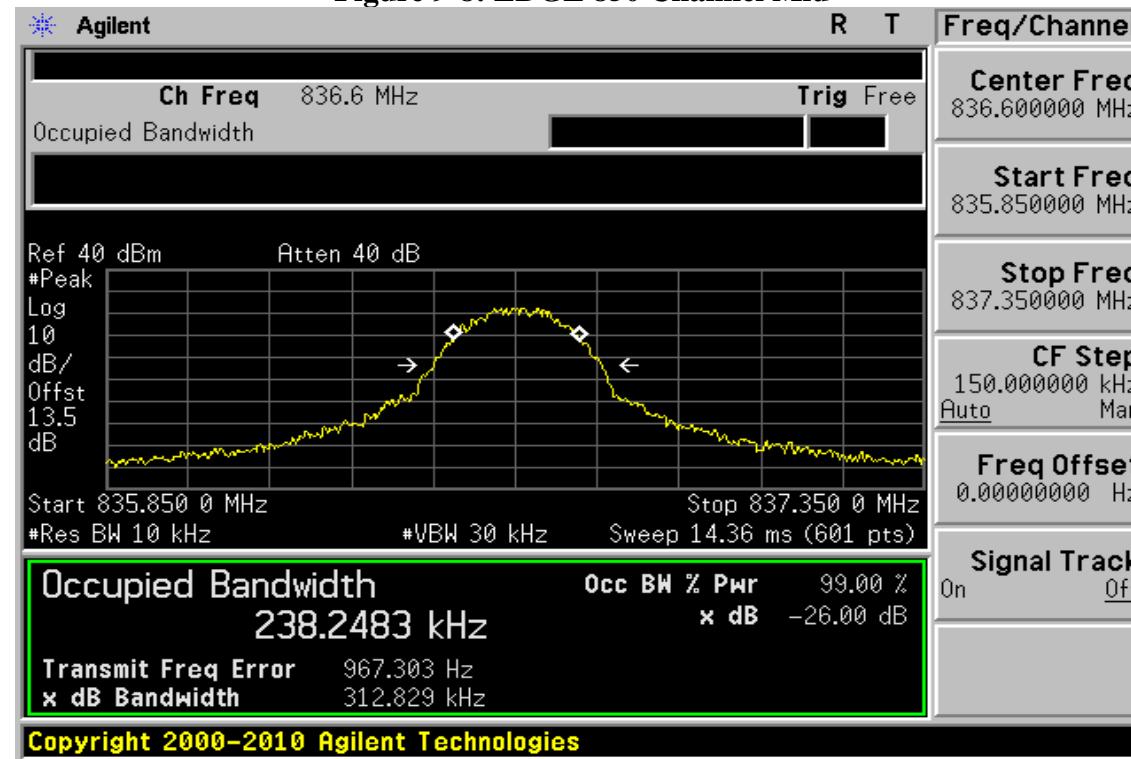


Figure 9-8: EDGE 850 Channel Mid



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Figure 9-9: EDGE 850 Channel High

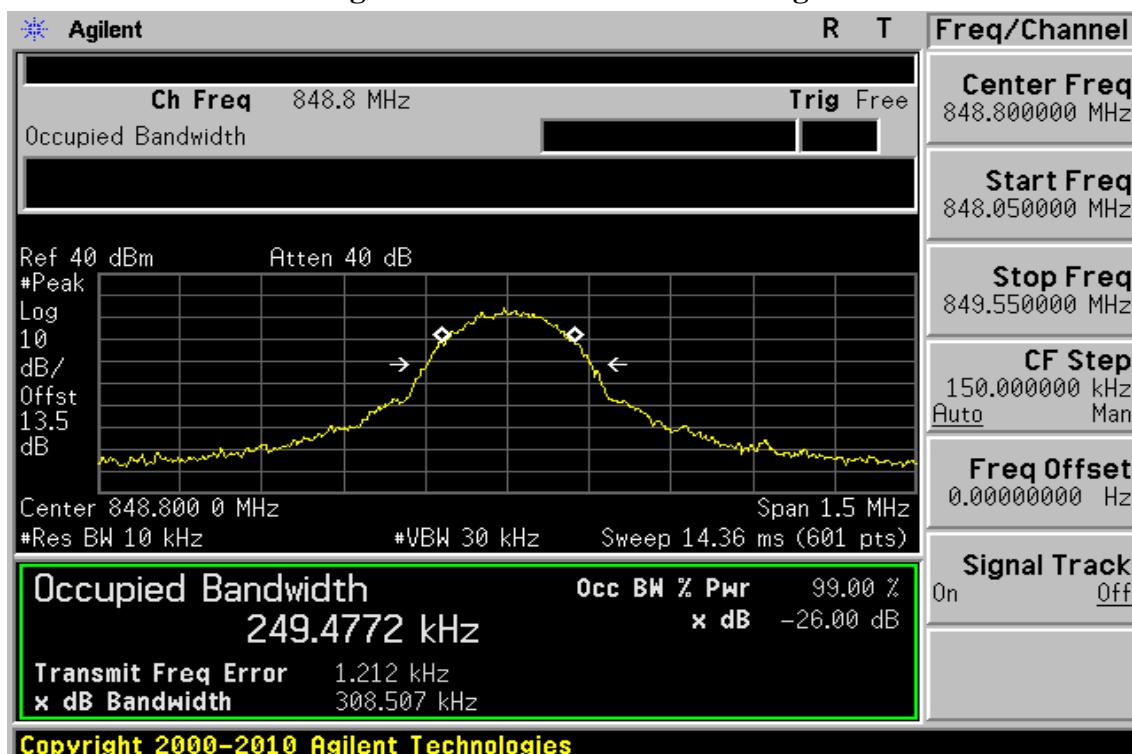
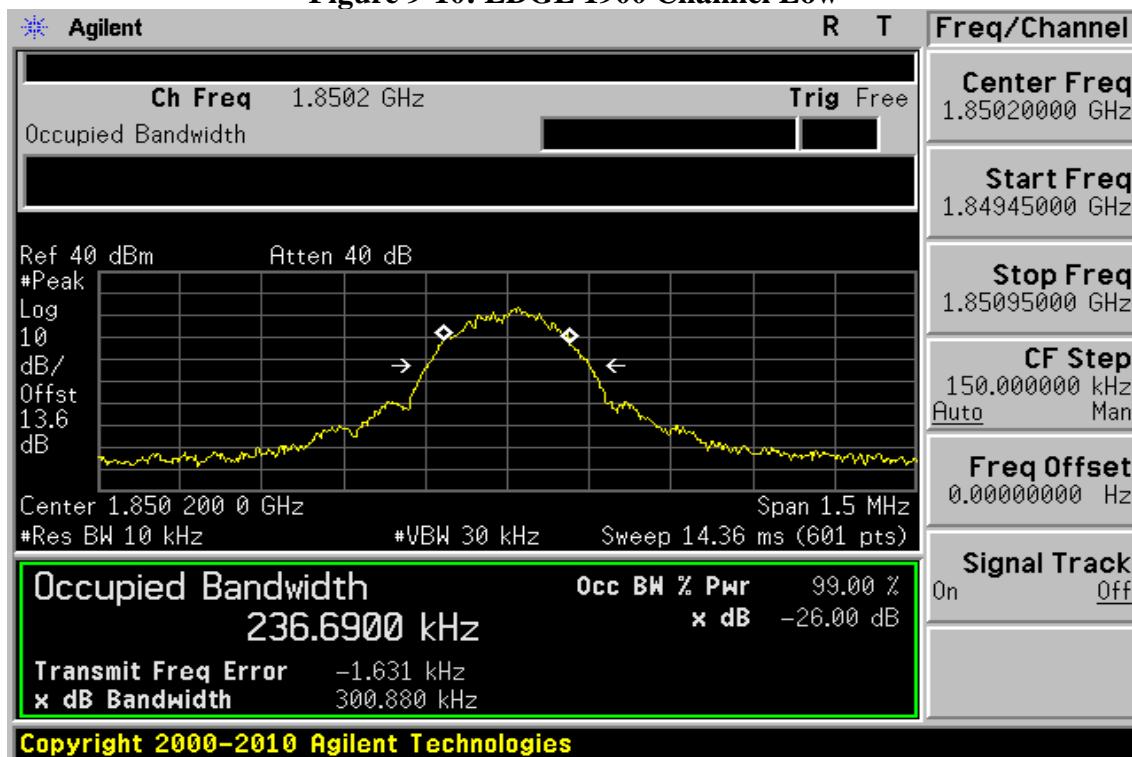


Figure 9-10: EDGE 1900 Channel Low



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Figure 9-11: EDGE 1900 Channel Mid

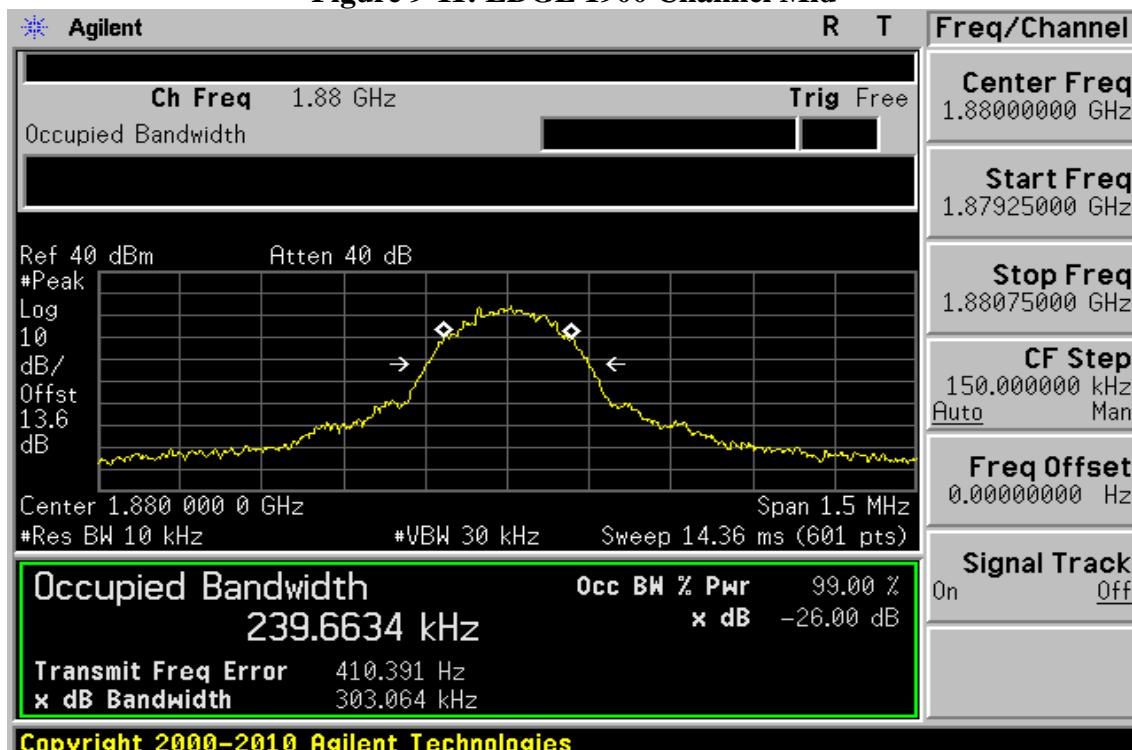
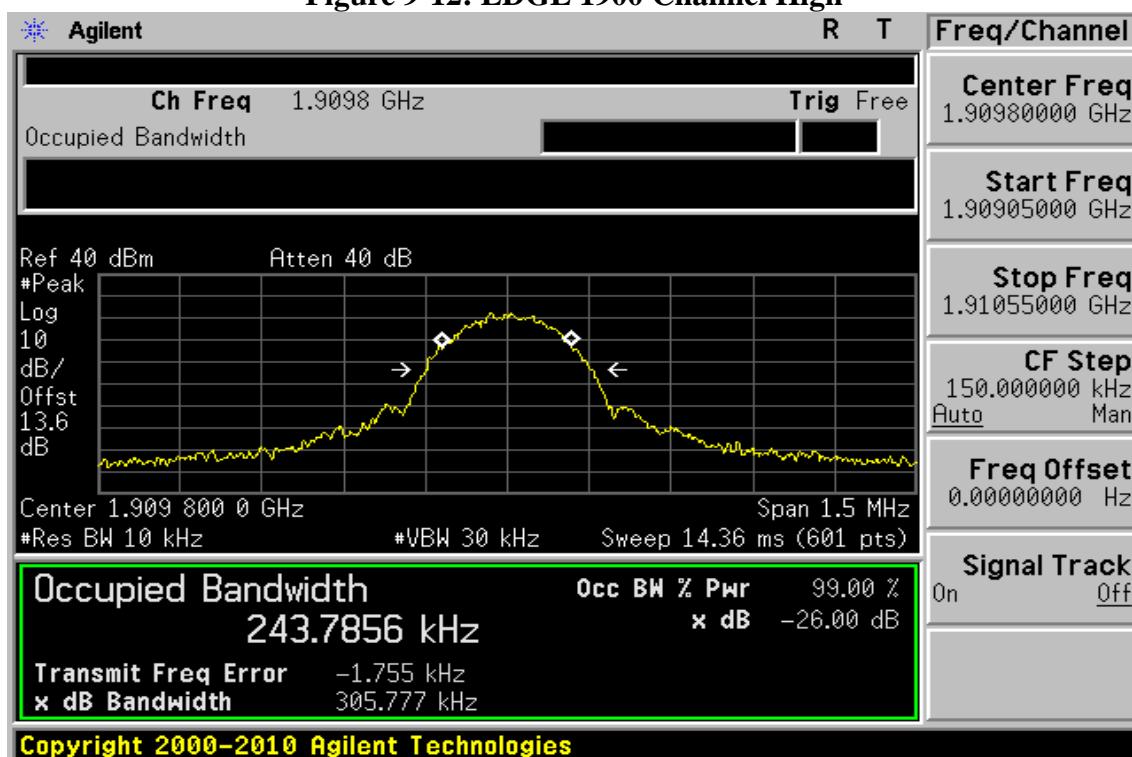


Figure 9-12: EDGE 1900 Channel High



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Figure 9-13: WCDMA II Channel Low

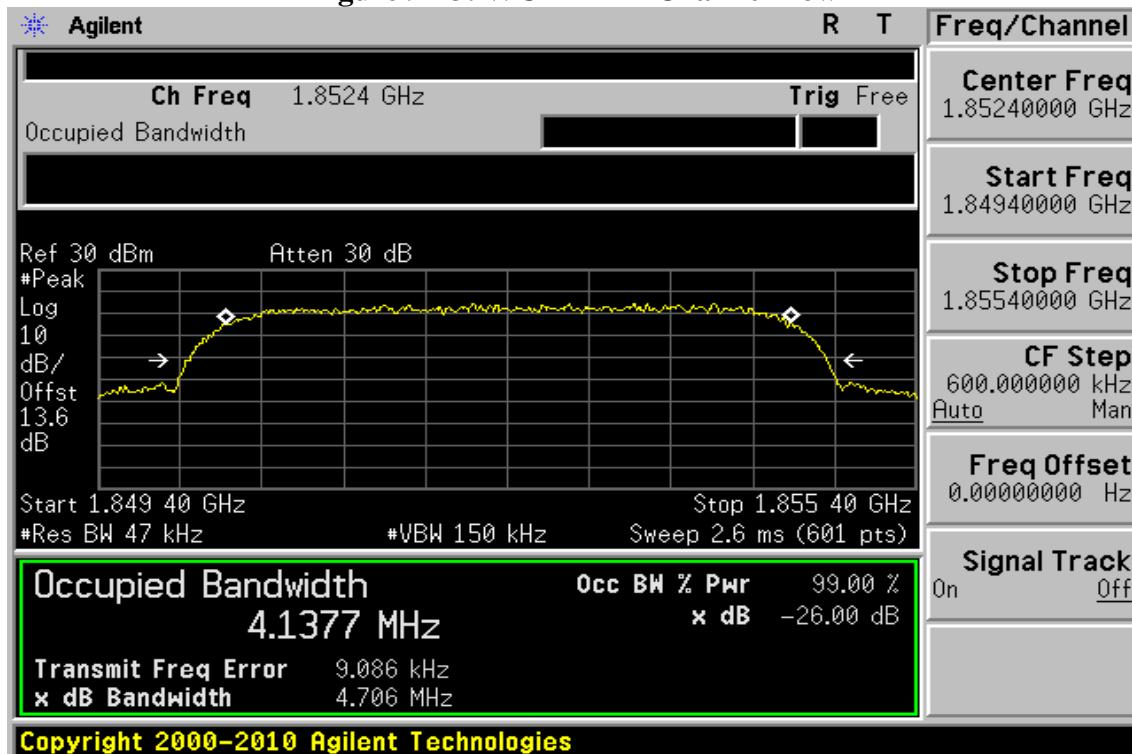
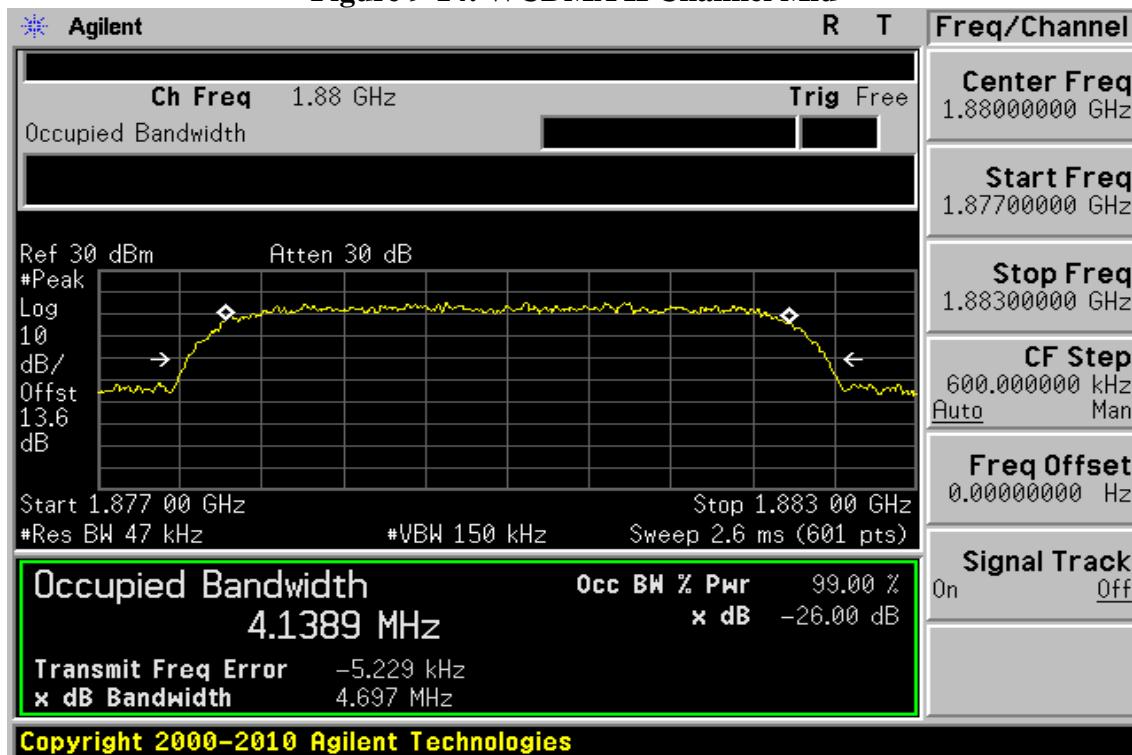


Figure 9-14: WCDMA II Channel Mid



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Figure 9-15: WCDMA II Channel High

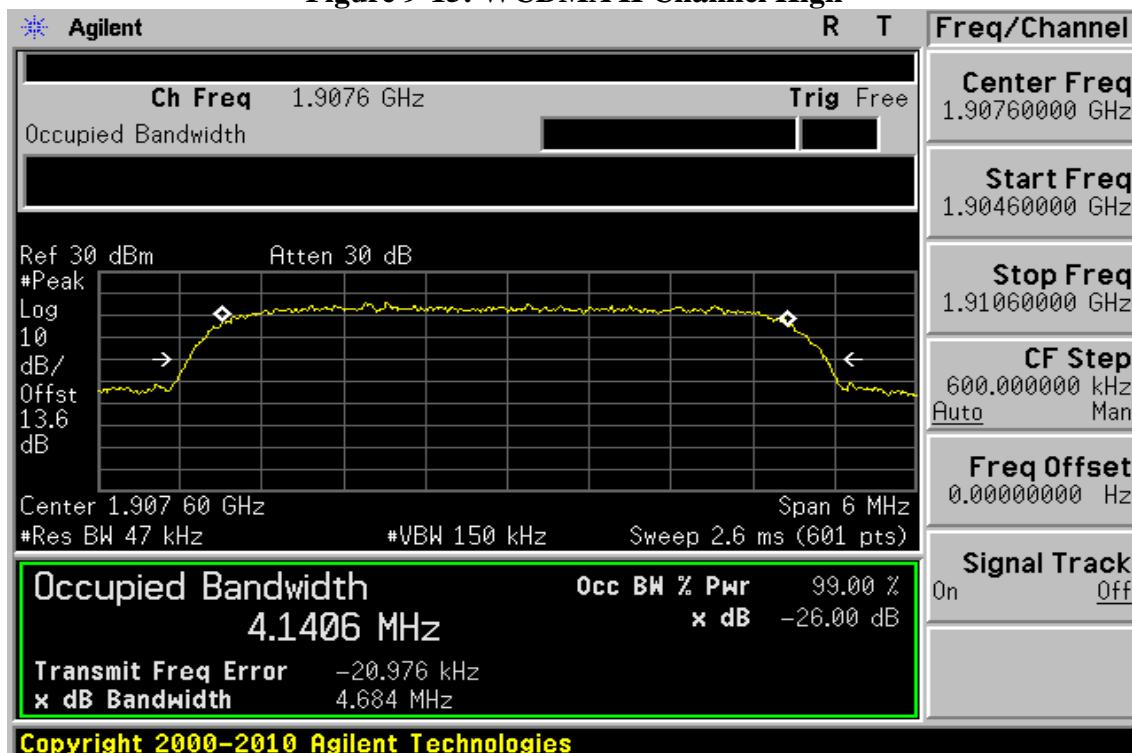
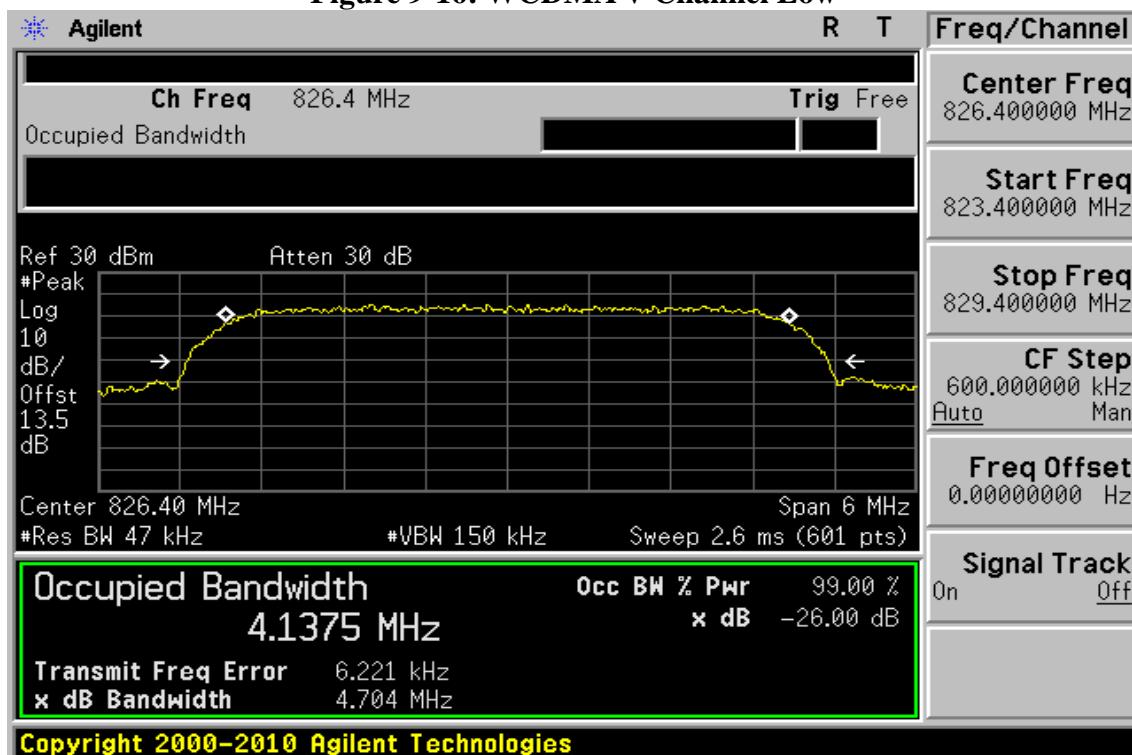


Figure 9-16: WCDMA V Channel Low



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Figure 9-17: WCDMA V Channel Mid

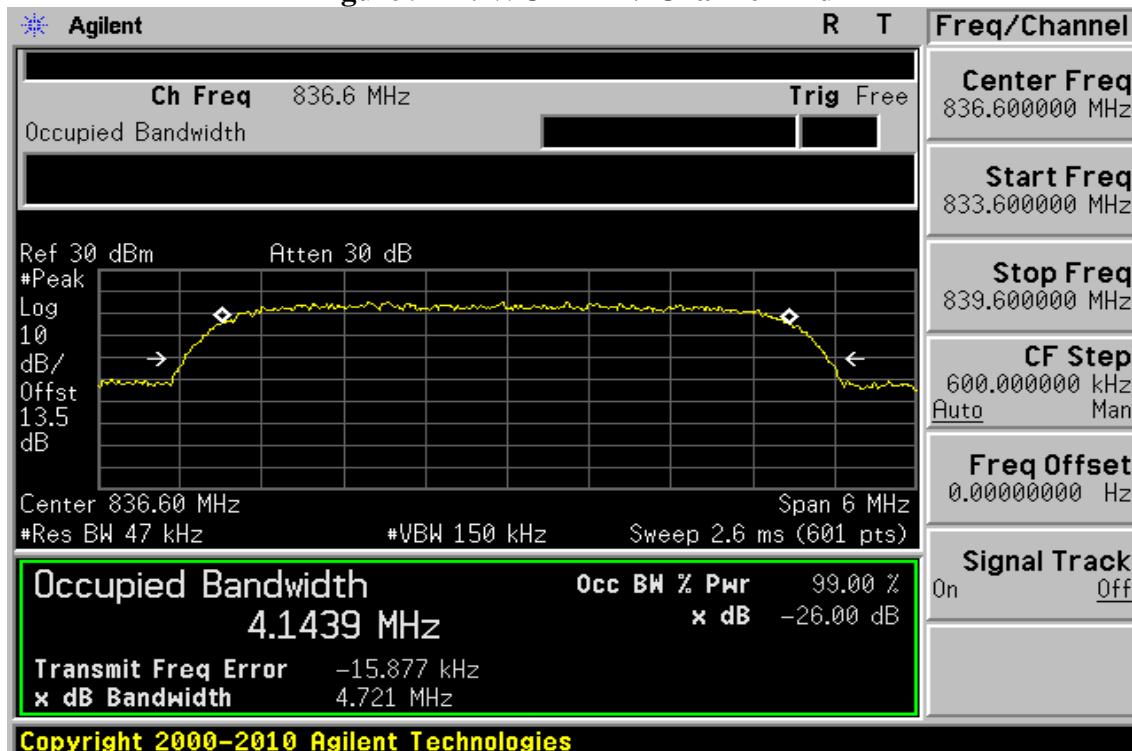
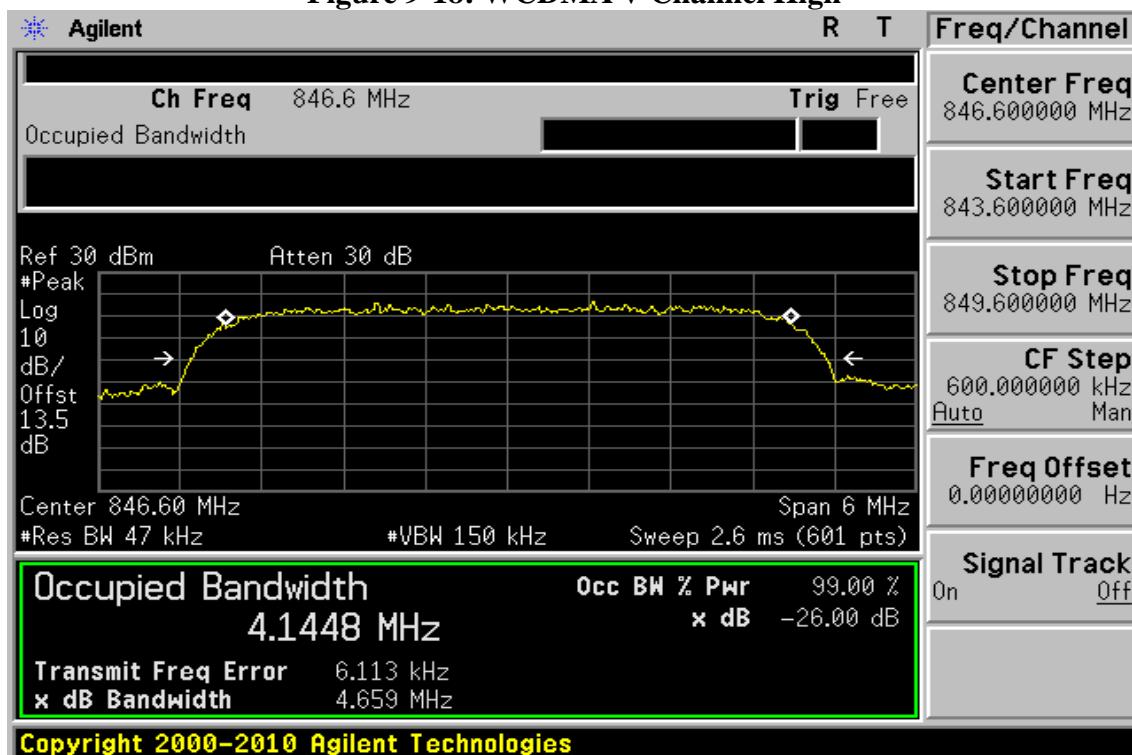


Figure 9-18: WCDMA V Channel High



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Figure 9-19: HSDPA II Channel Low

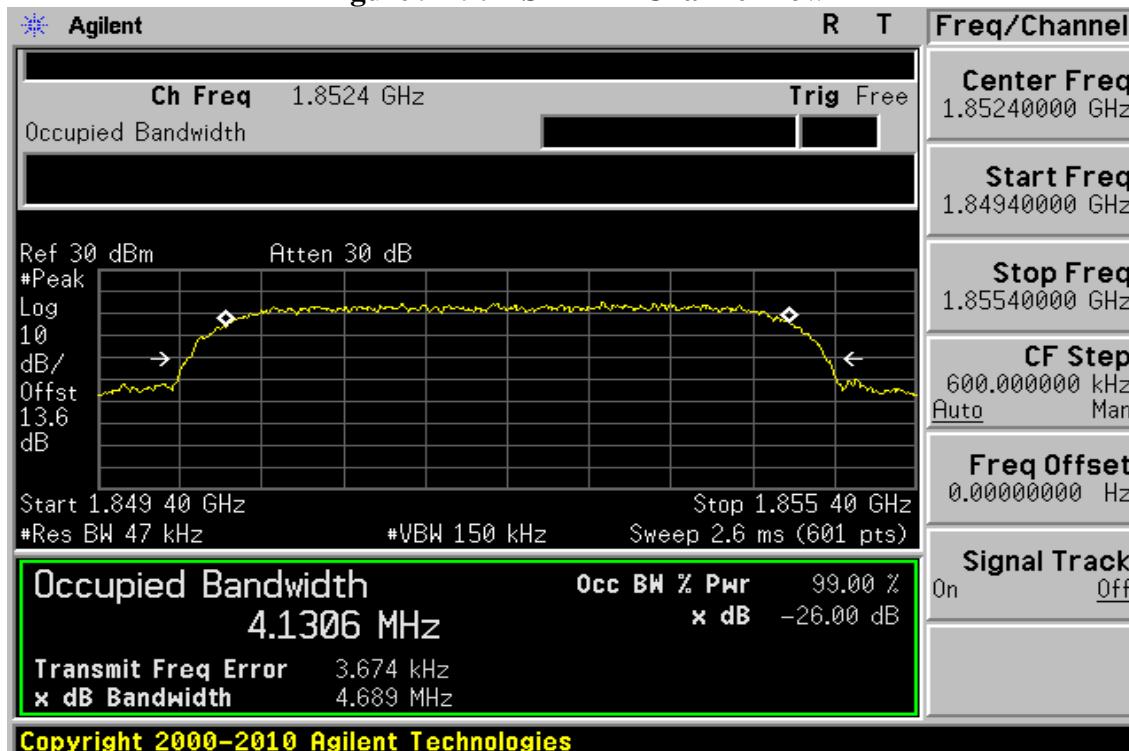
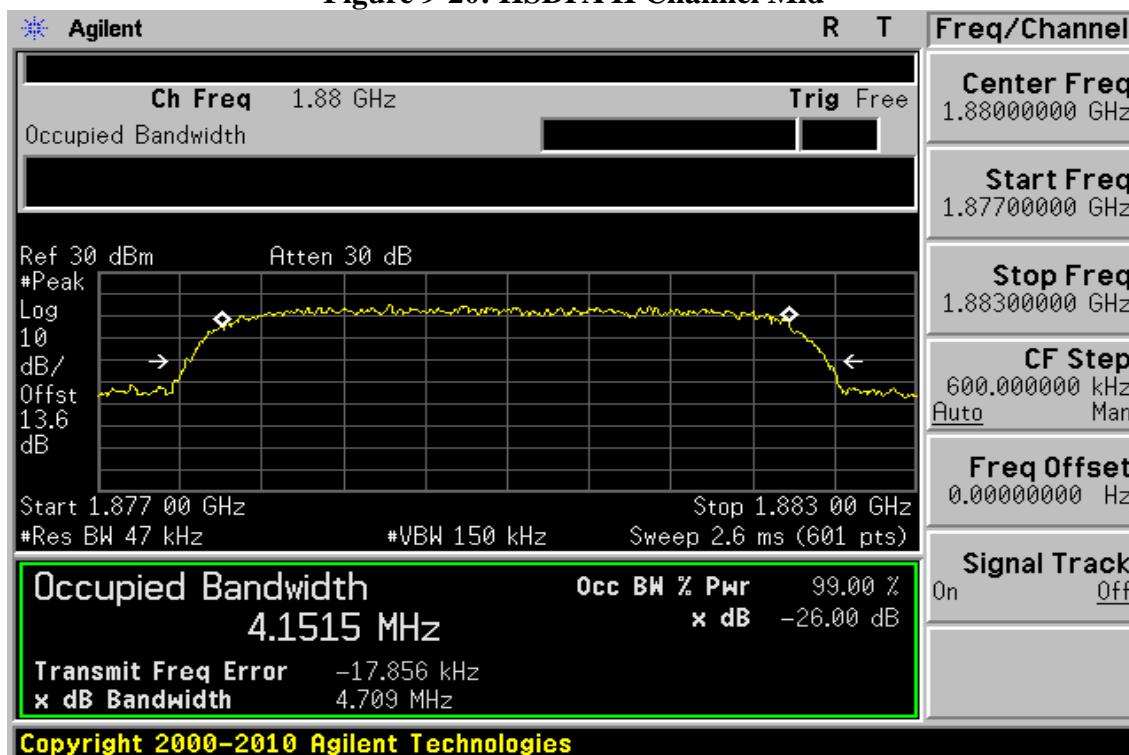


Figure 9-20: HSDPA II Channel Mid



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Figure 9-21: HSDPA II Channel High

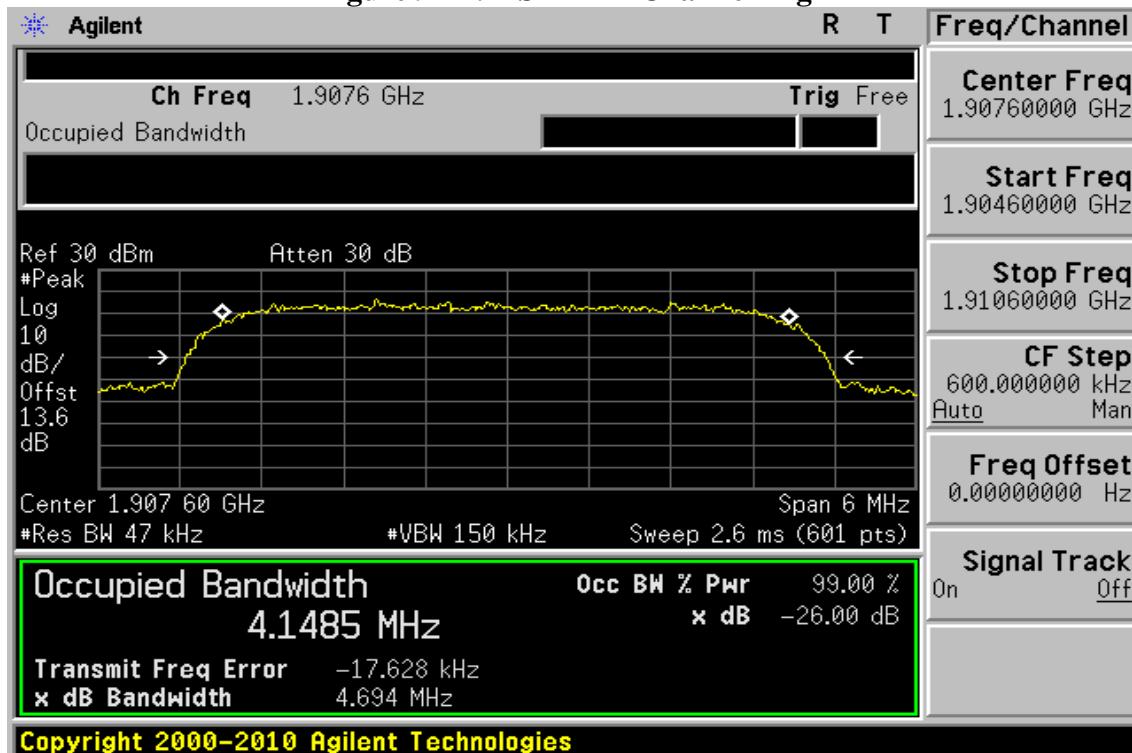
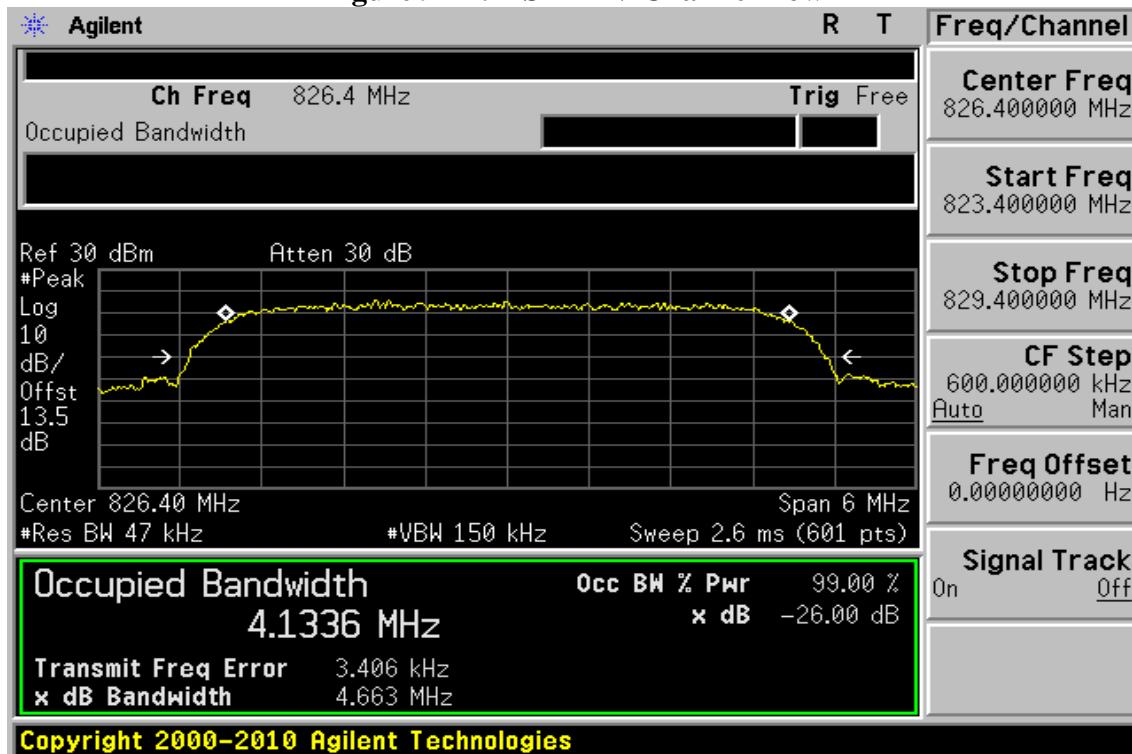


Figure 9-22: HSDPA V Channel Low



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Figure 9-23: HSDPA V Channel Mid

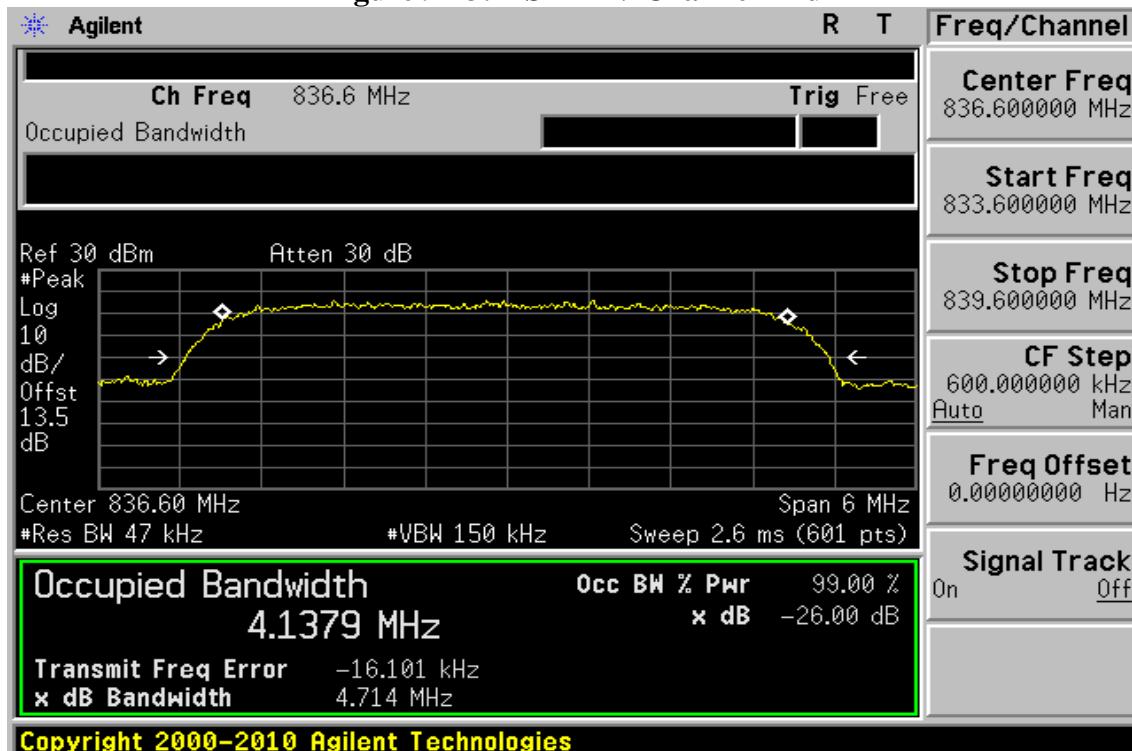
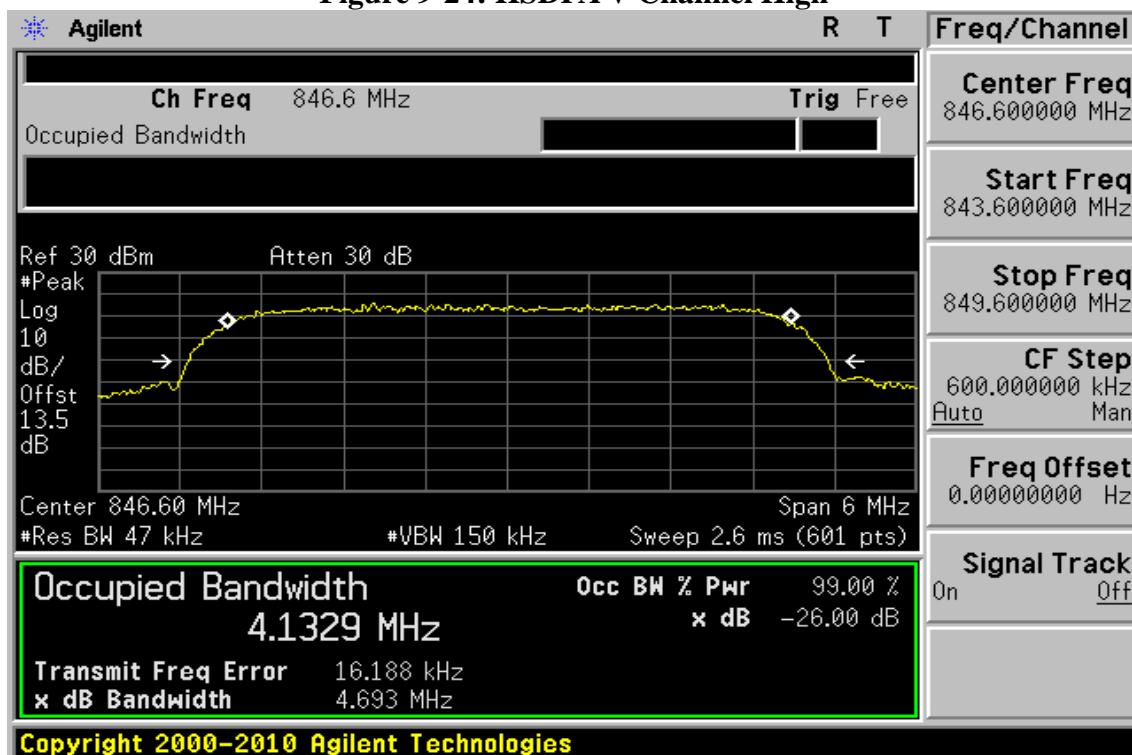


Figure 9-24: HSDPA V Channel High



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Figure 9-25: HSUPA II Channel Low

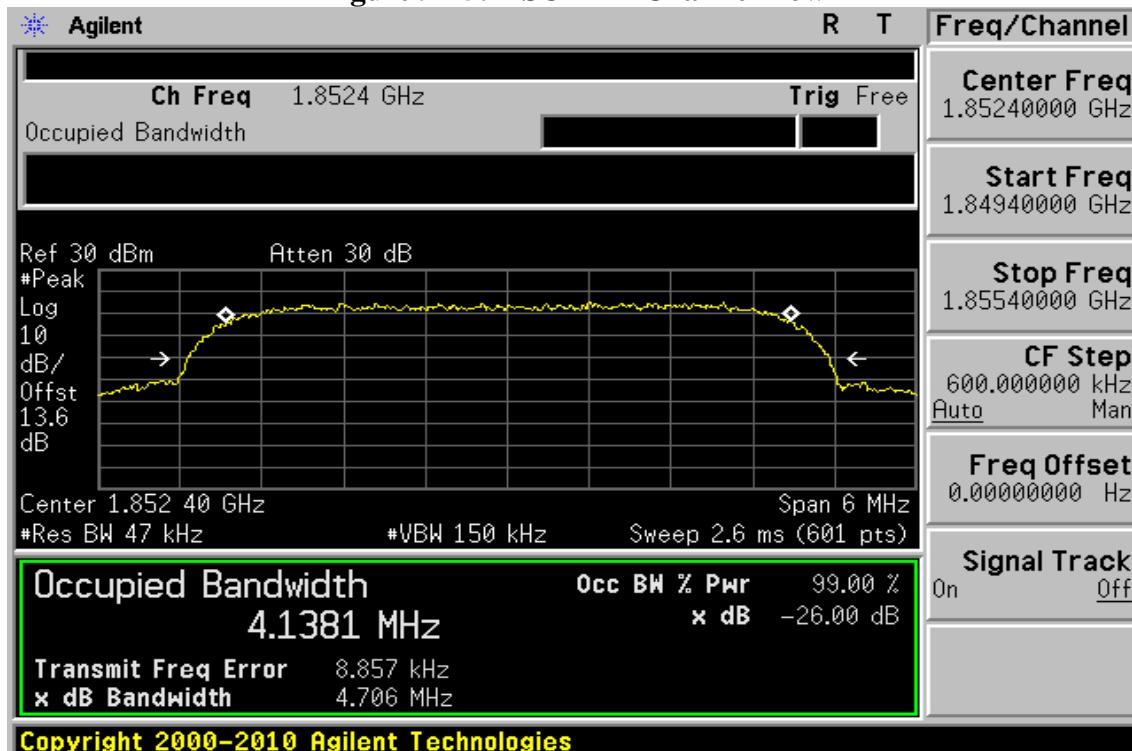
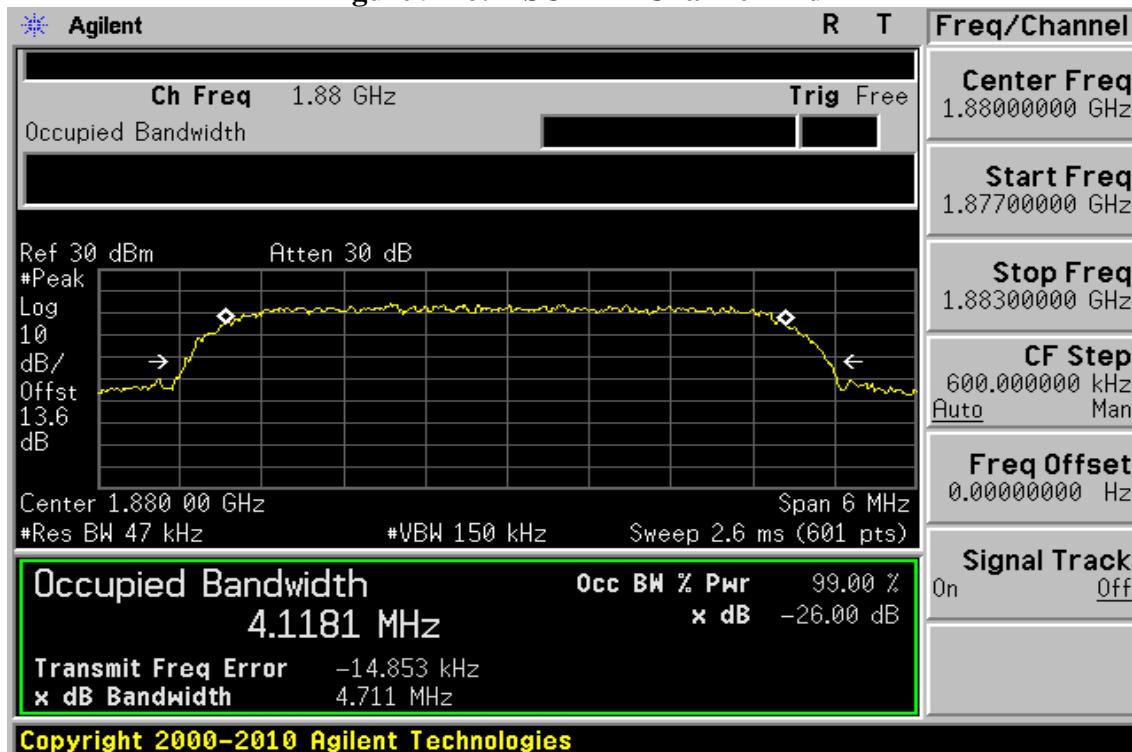


Figure 9-26: HSUPA II Channel Mid



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Figure 9-27: HSUPA II Channel High

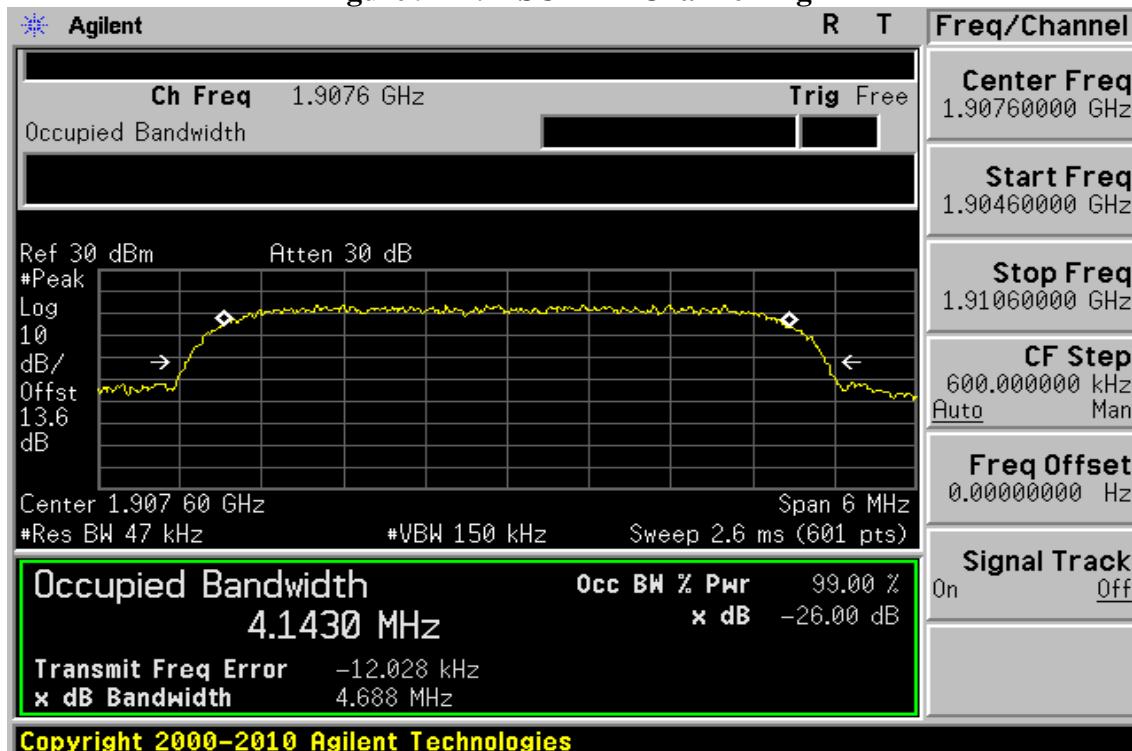
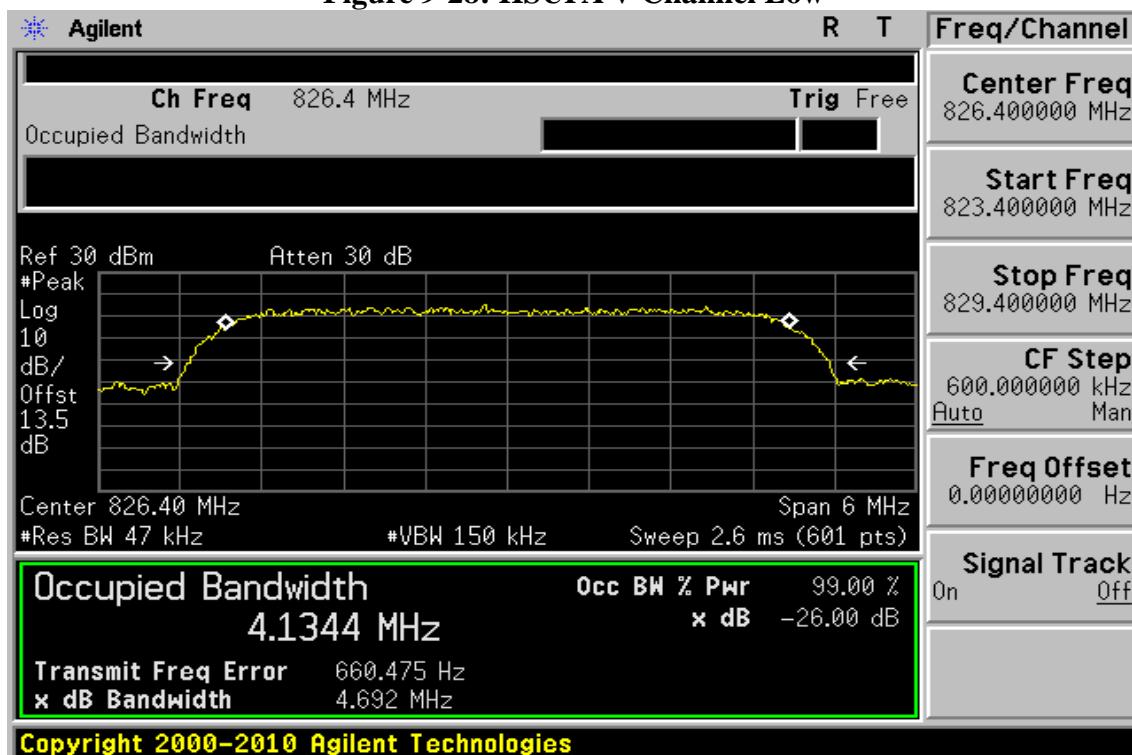


Figure 9-28: HSUPA V Channel Low



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Figure 9-29: HSUPA V Channel Mid

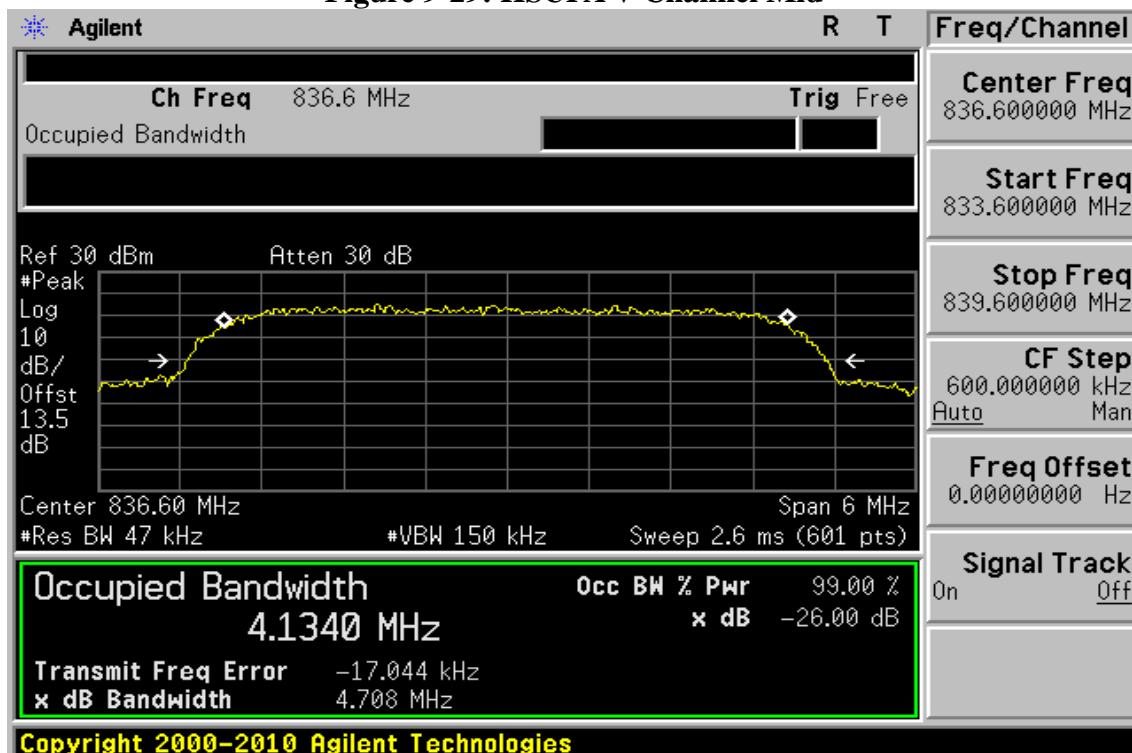
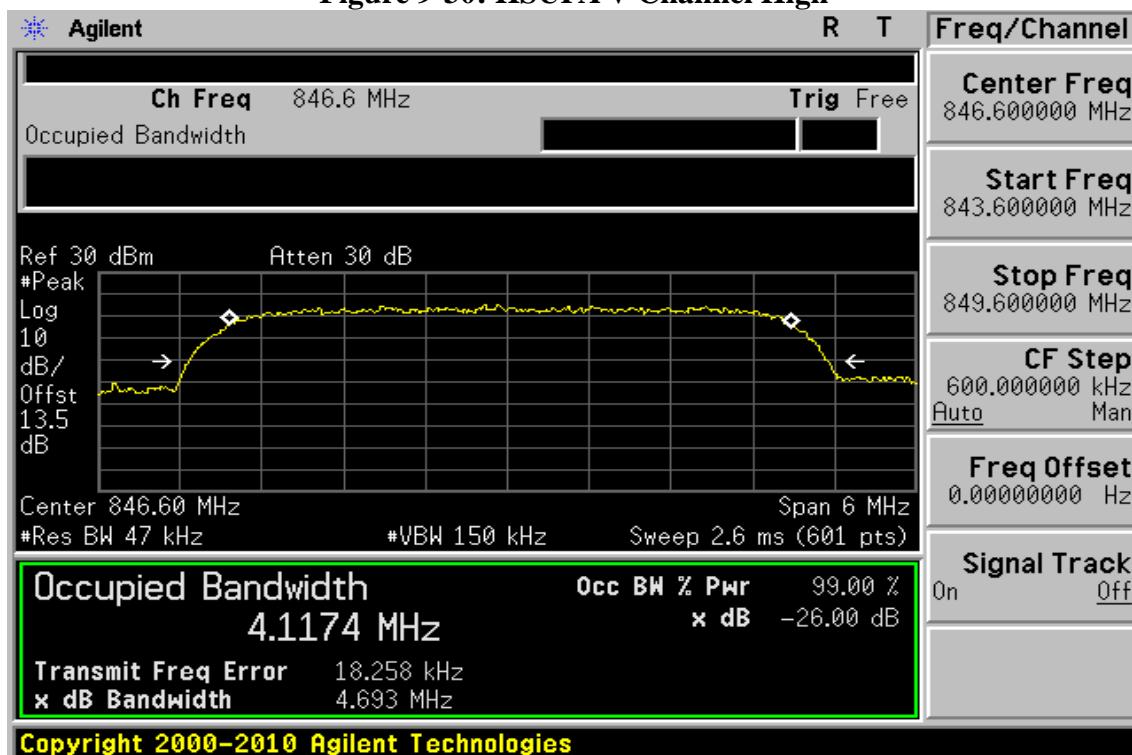


Figure 9-30: HSUPA V Channel High



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Figure 9-31: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low

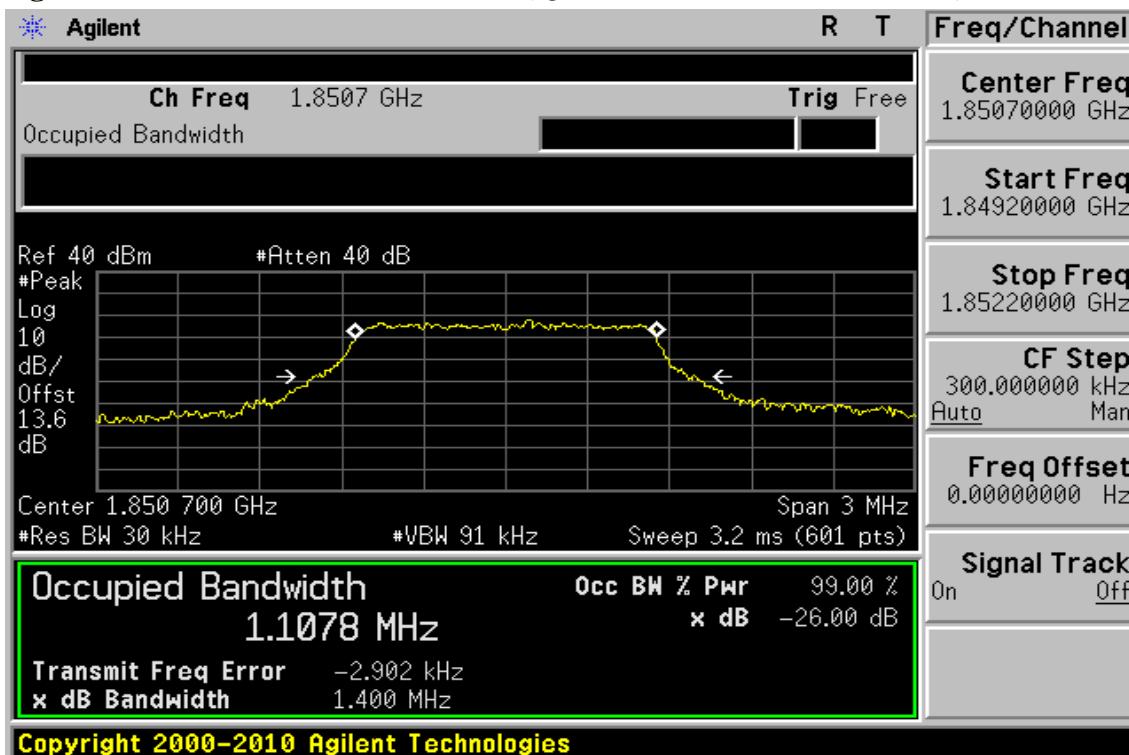
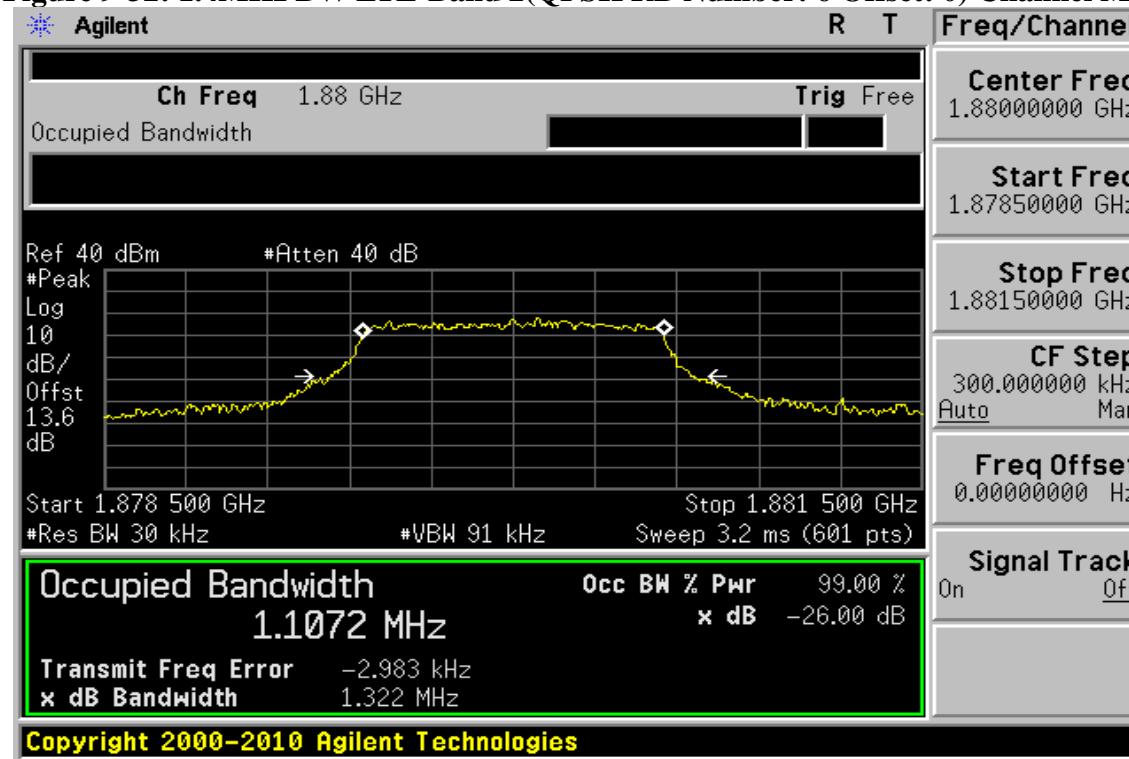


Figure 9-32: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 9-33: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High

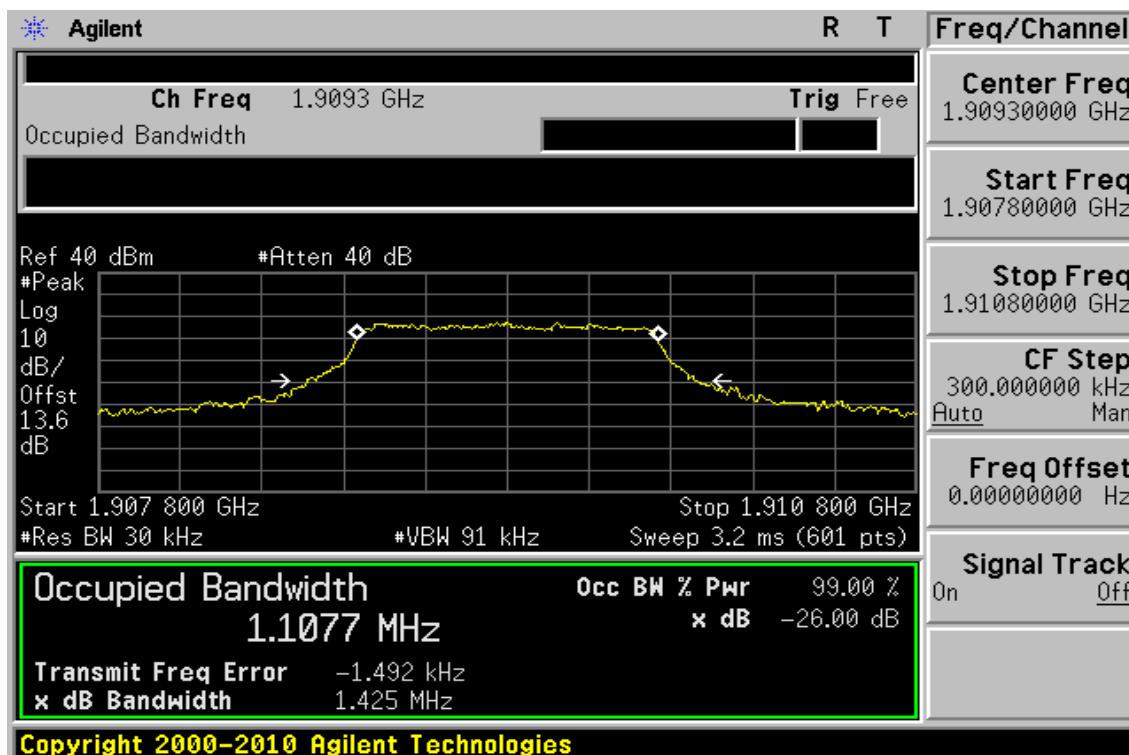
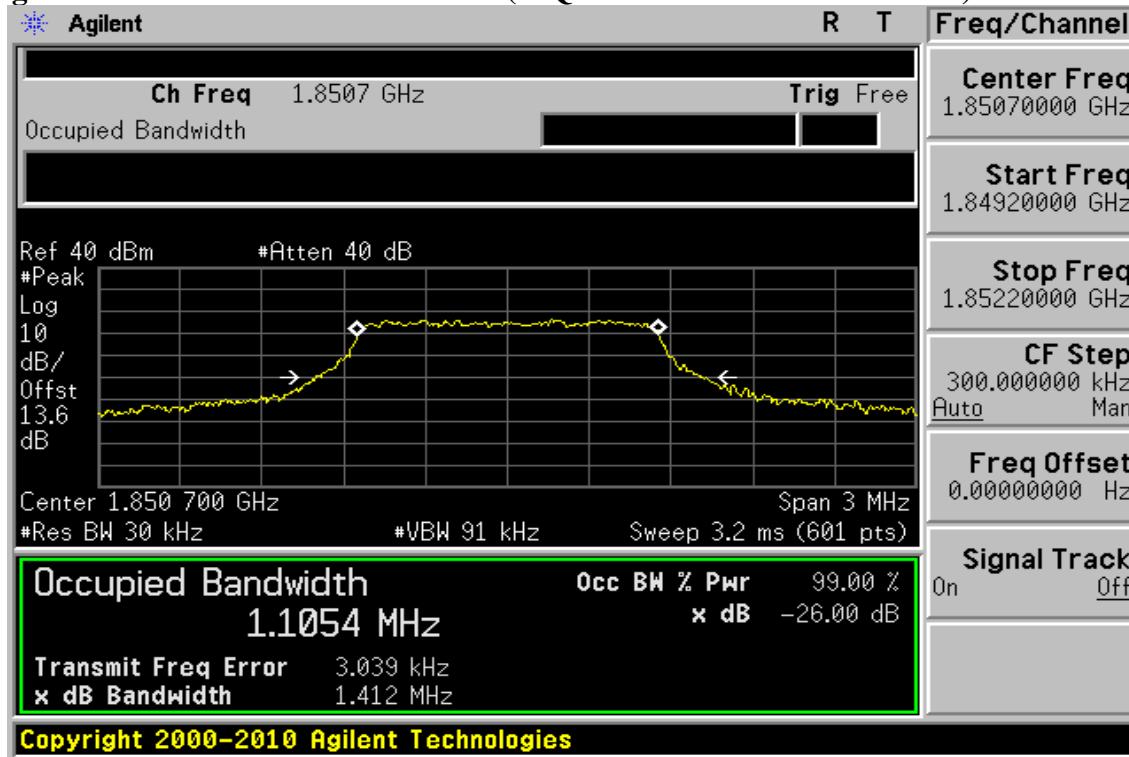


Figure 9-34: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 9-35: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid

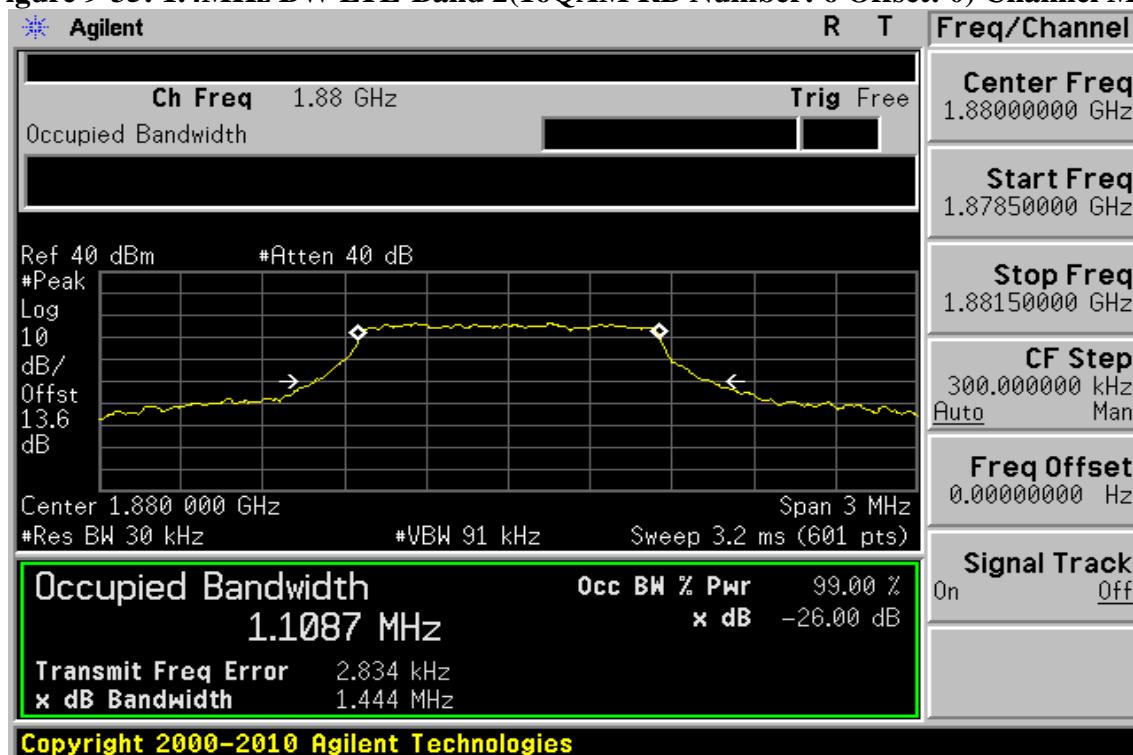
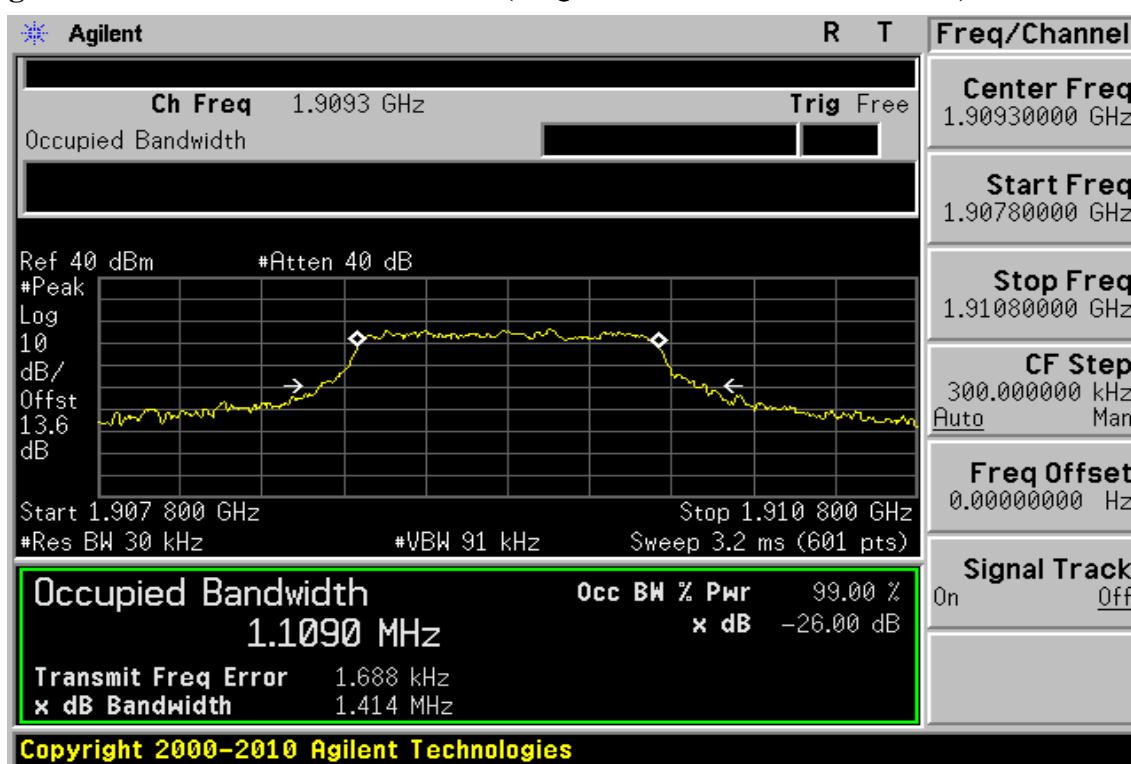


Figure 9-36: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 9-37: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low

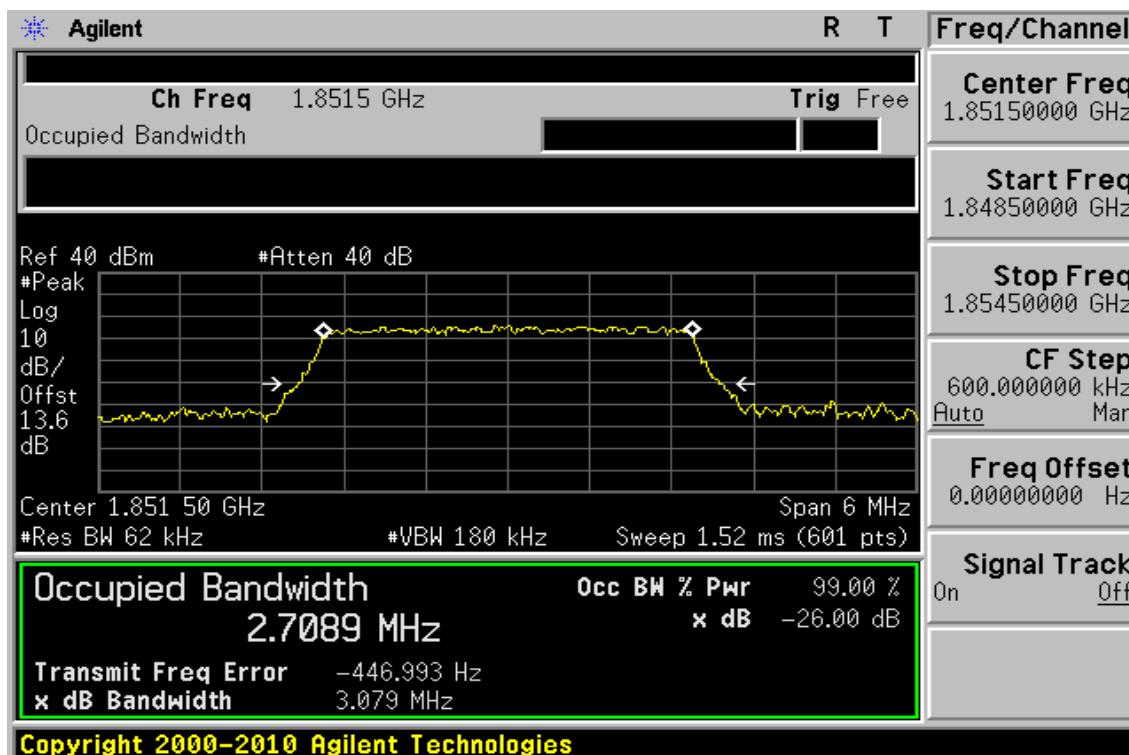
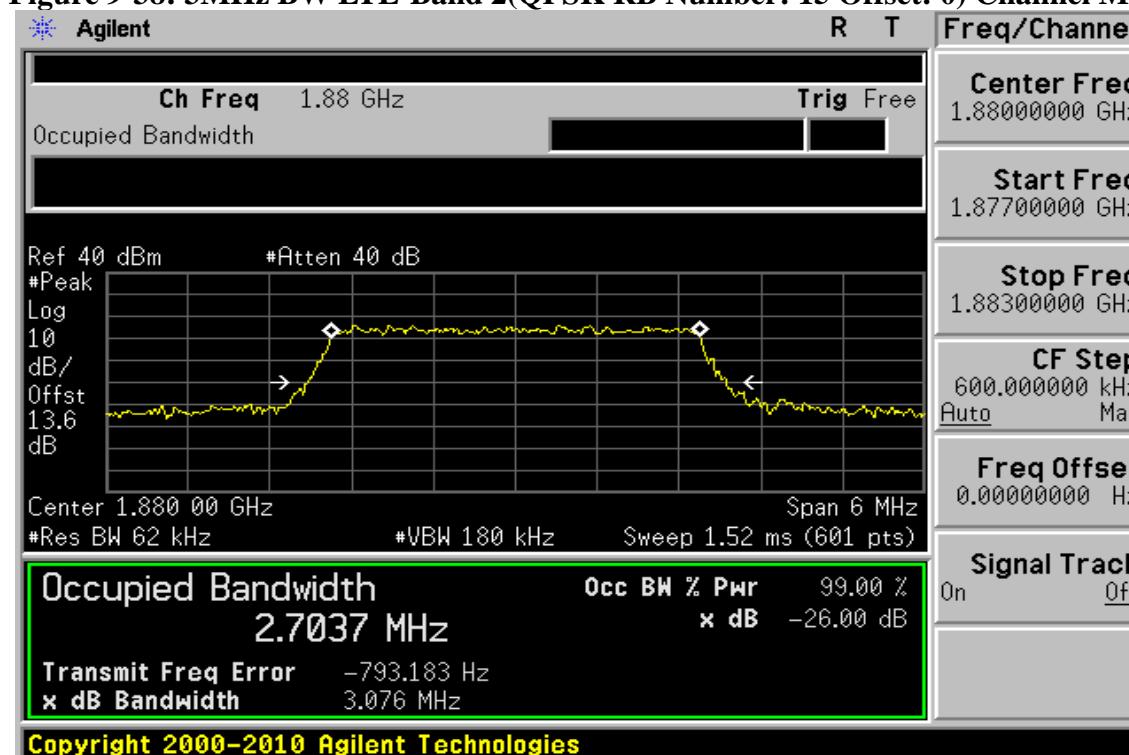


Figure 9-38: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Mid



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Figure 9-39: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High

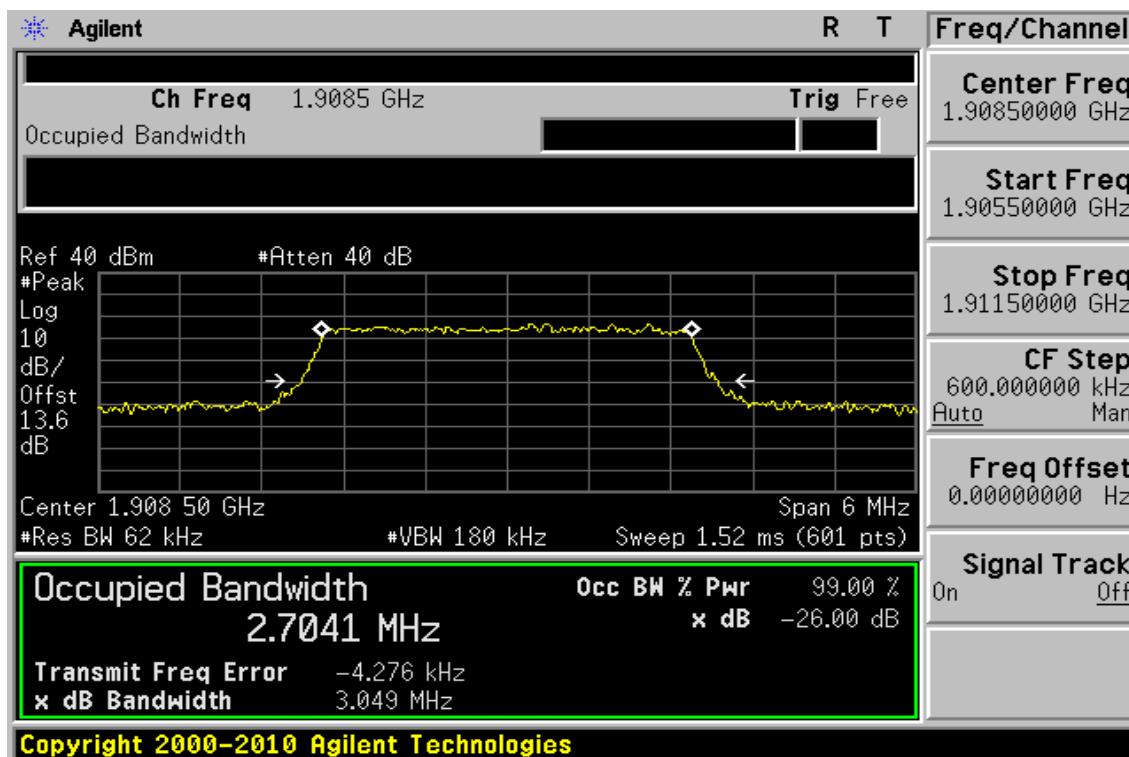
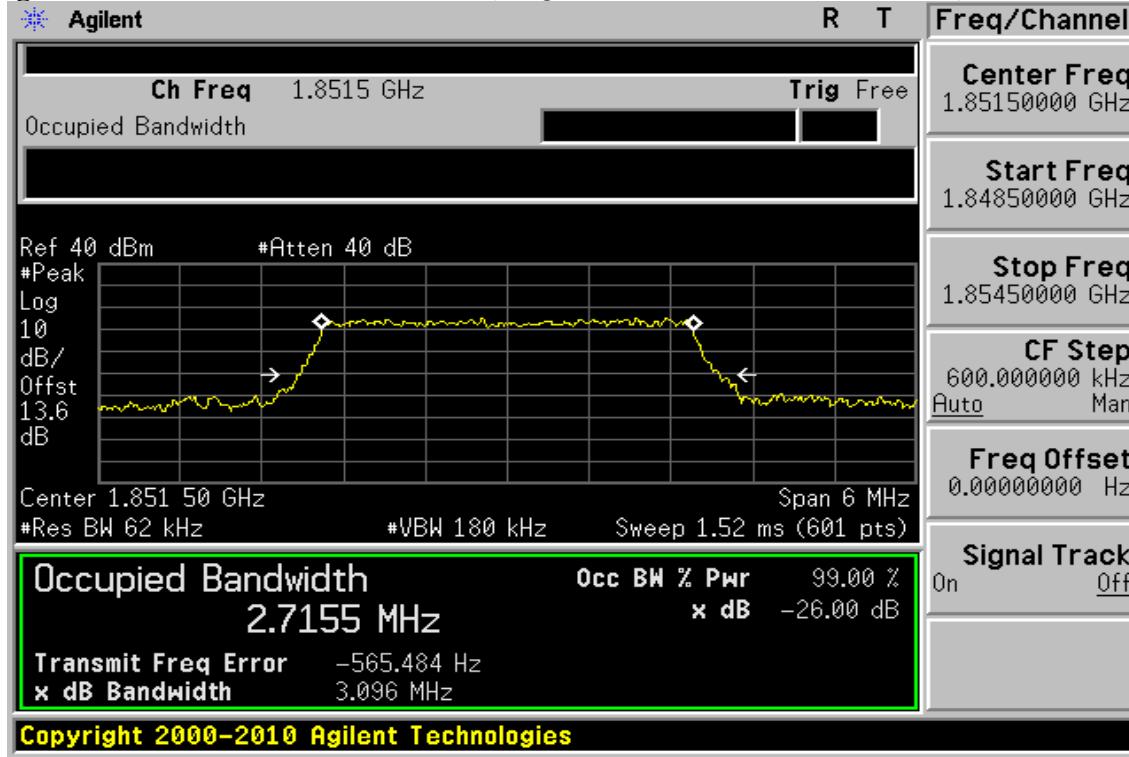


Figure 9-40: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Low



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Figure 9-41: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid

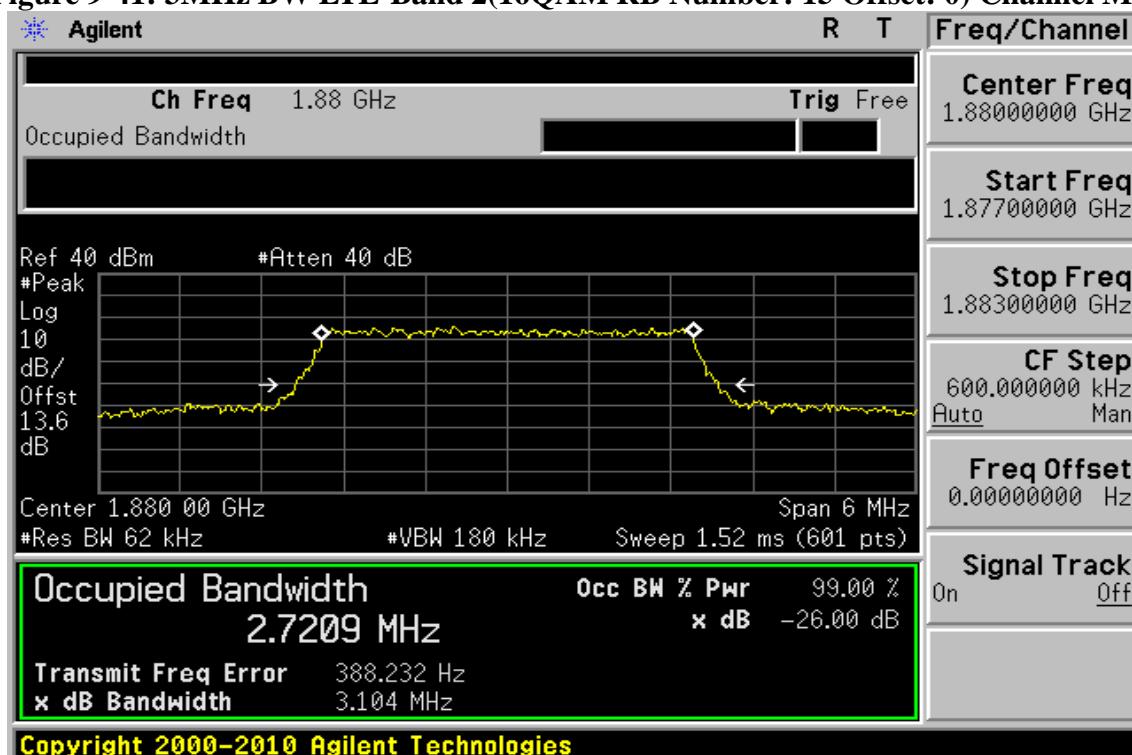
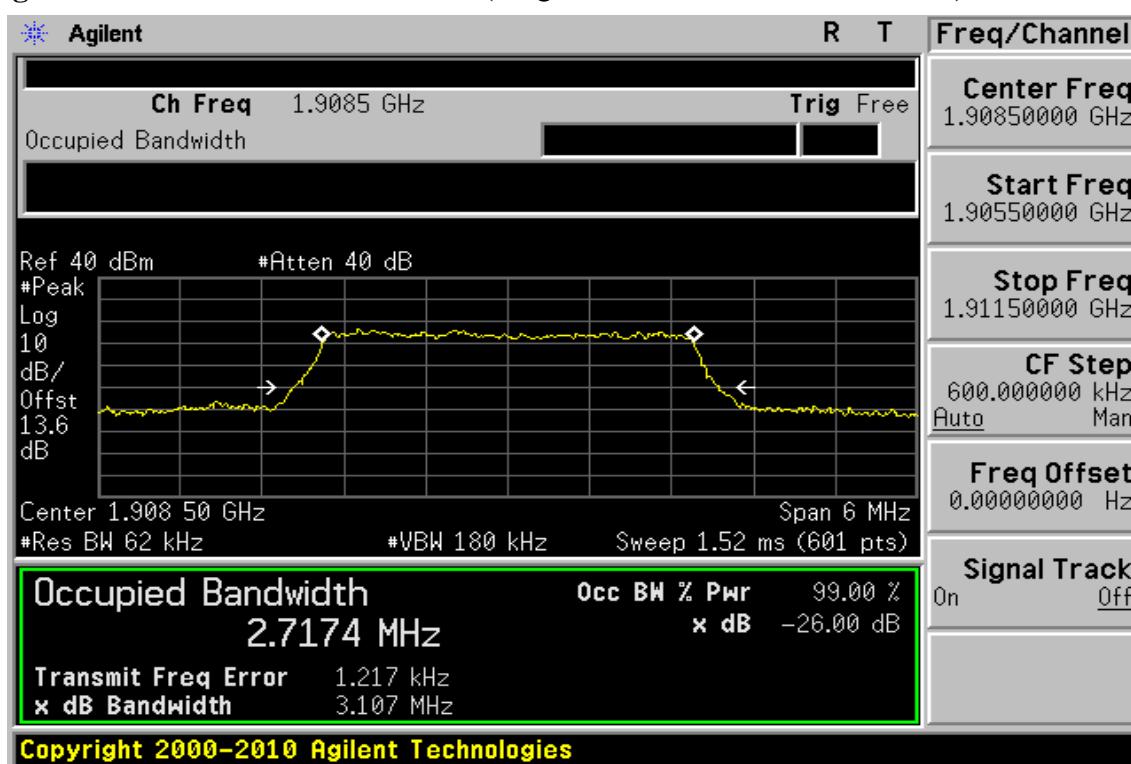


Figure 9-42: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel High



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Figure 9-43: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low

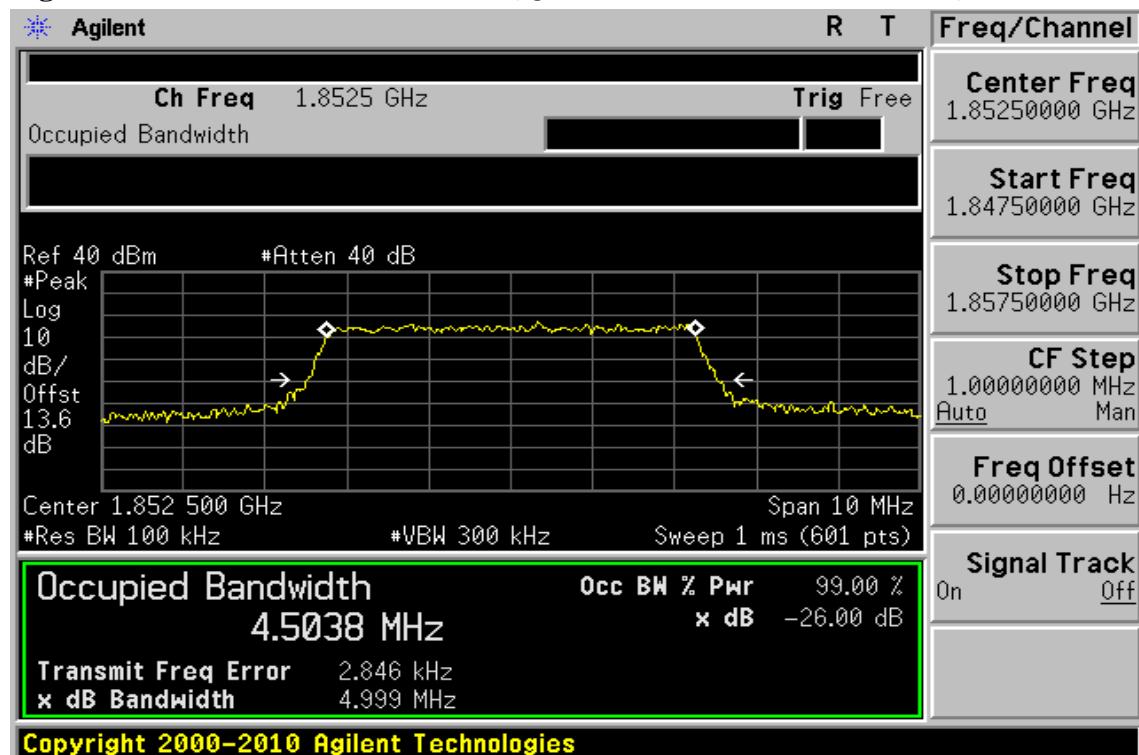
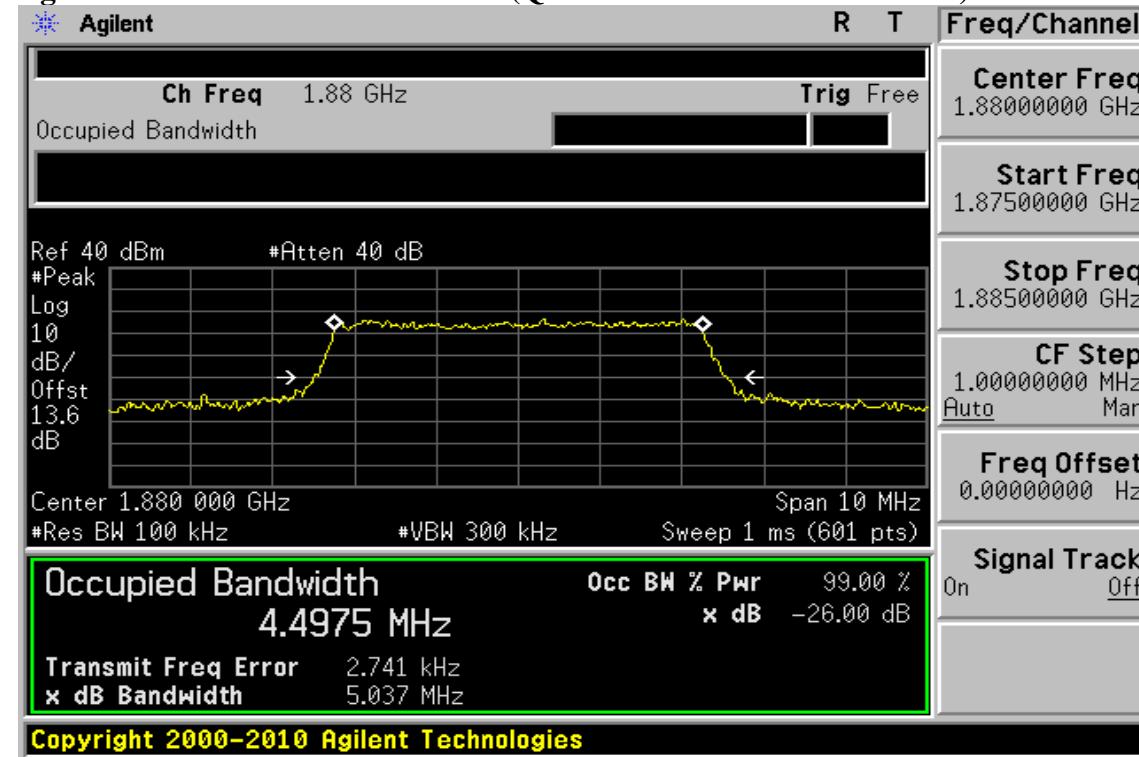


Figure 9-44: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 9-45: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High

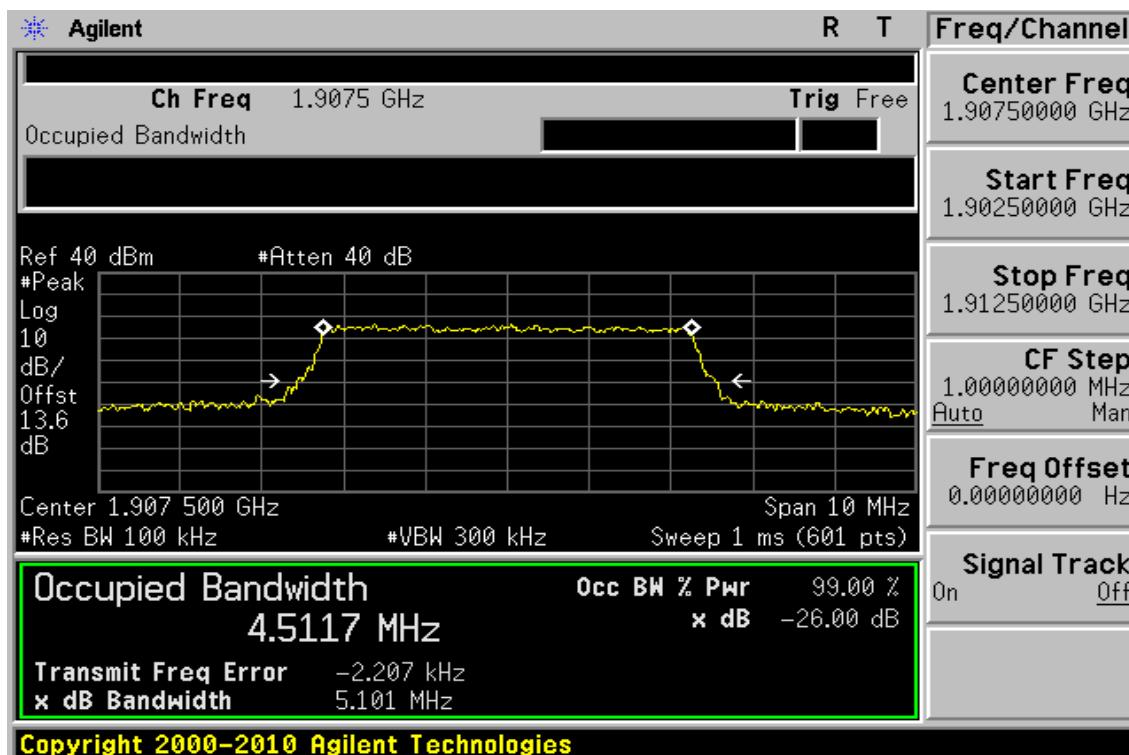
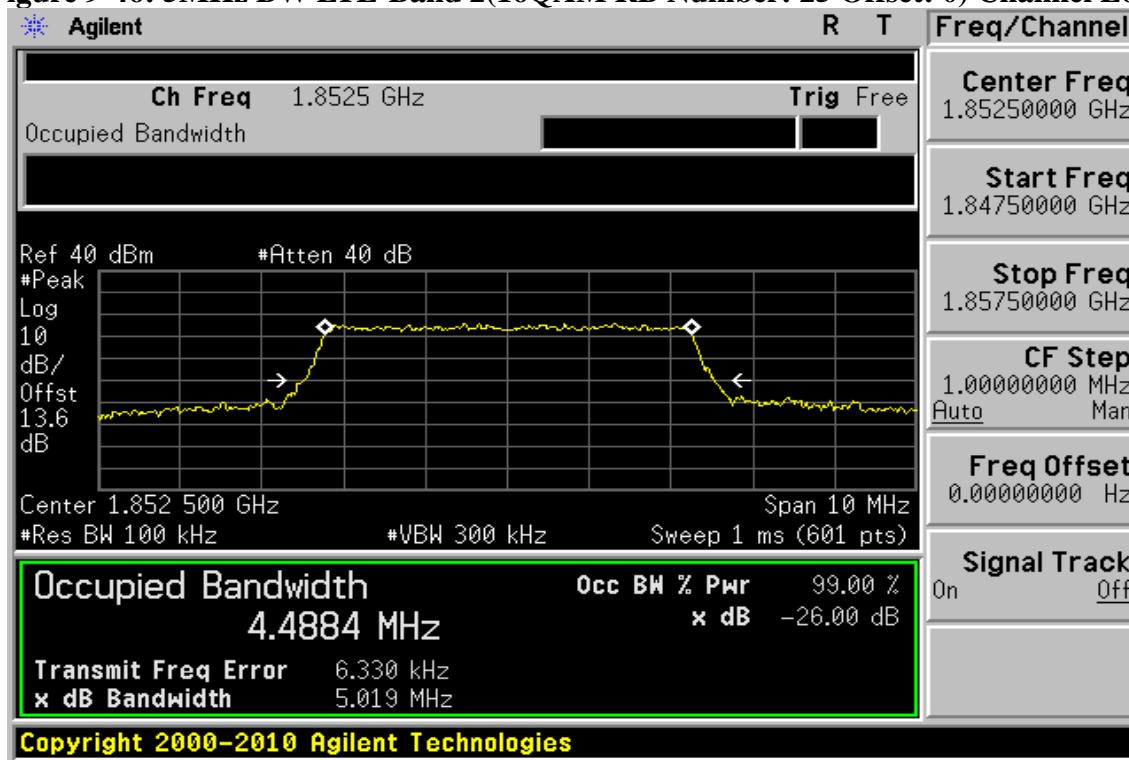


Figure 9-46: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 9-47: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid

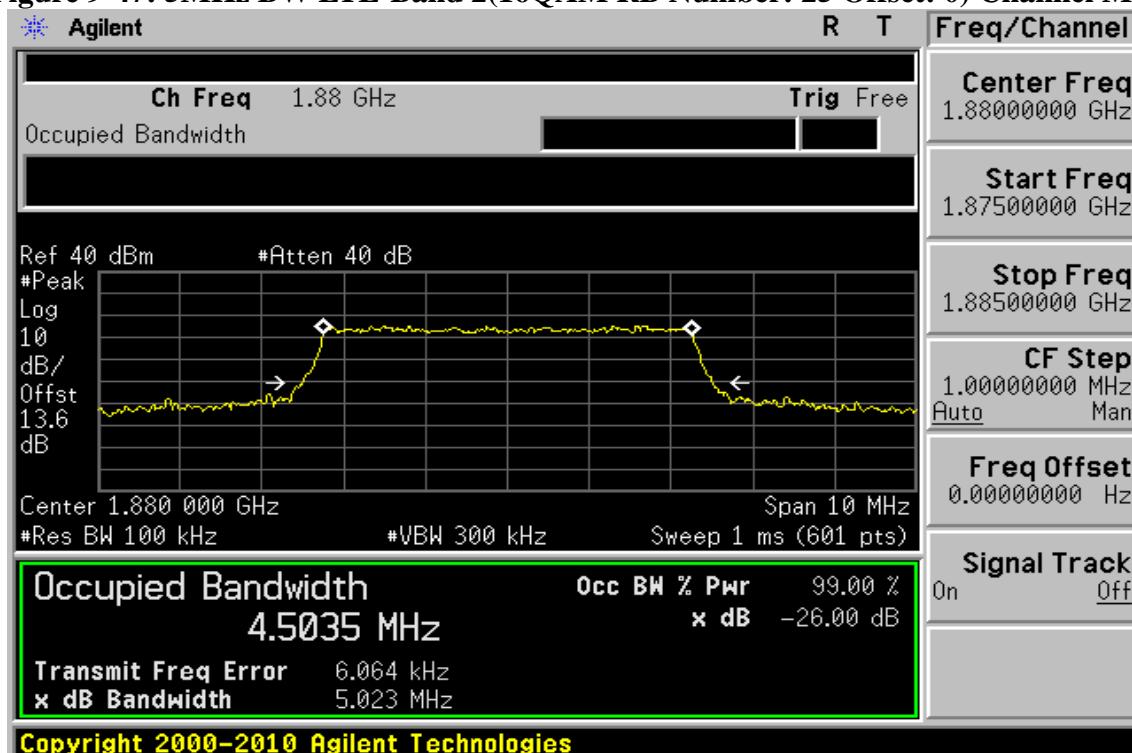
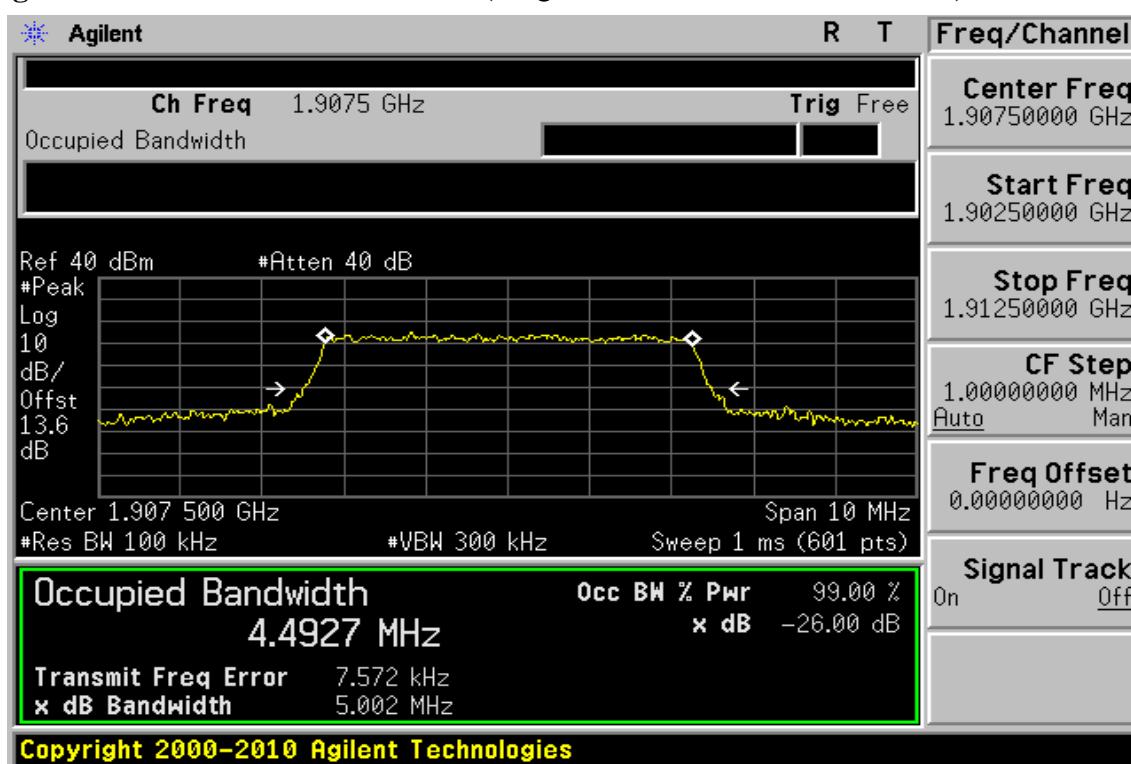


Figure 9-48: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 9-49: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low

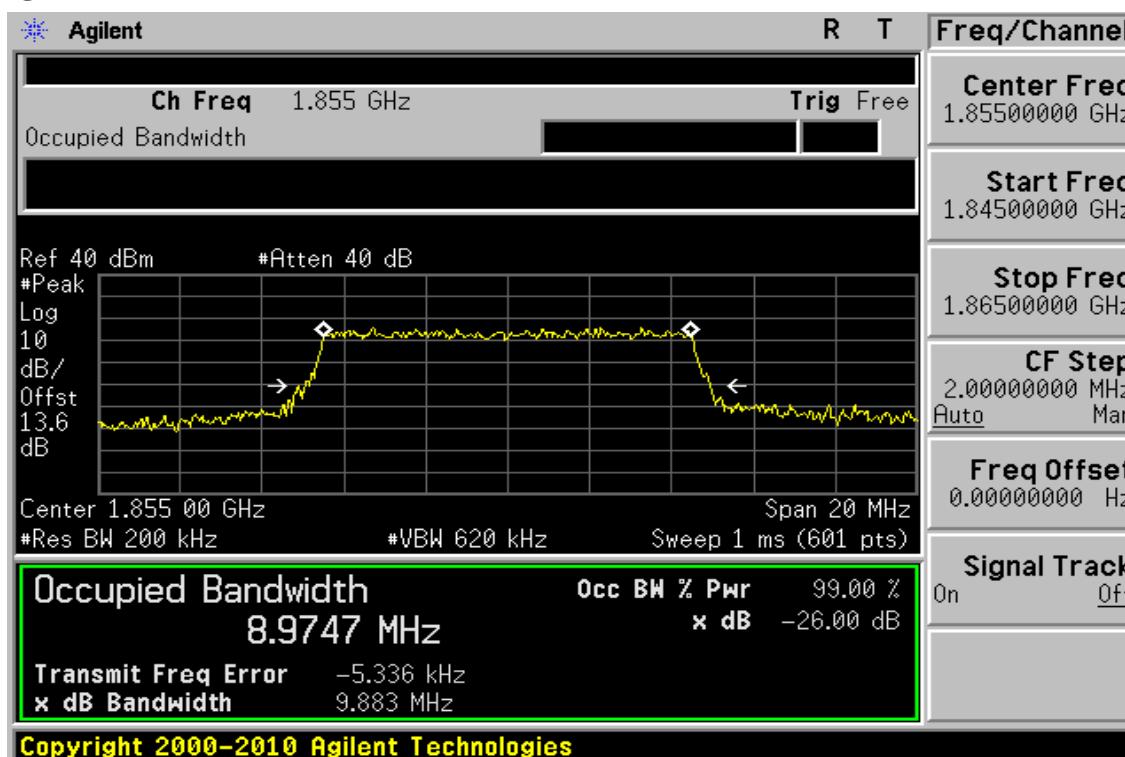
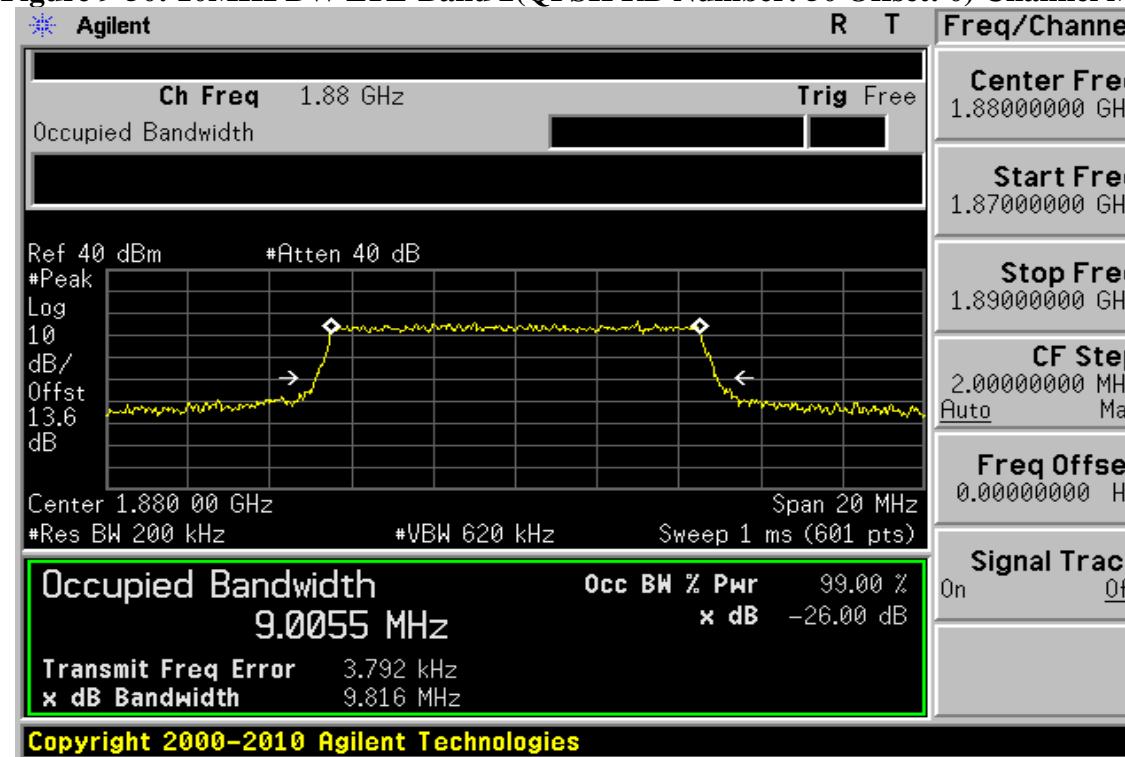


Figure 9-50: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 9-51: 10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel High

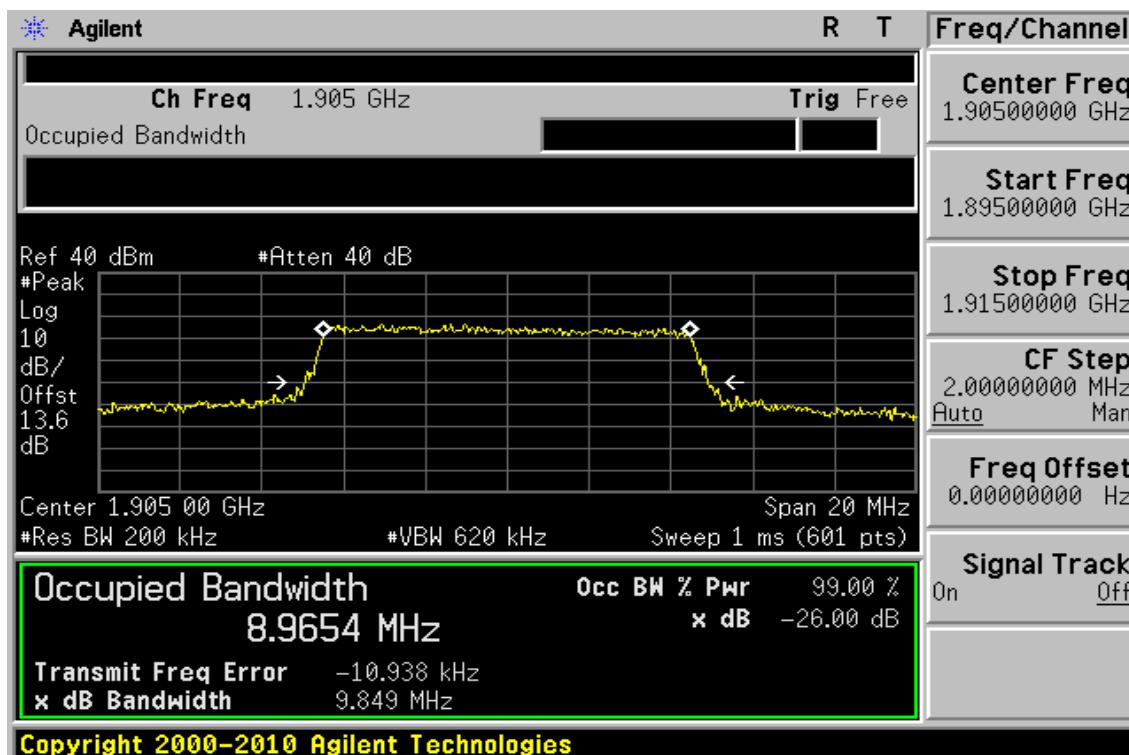
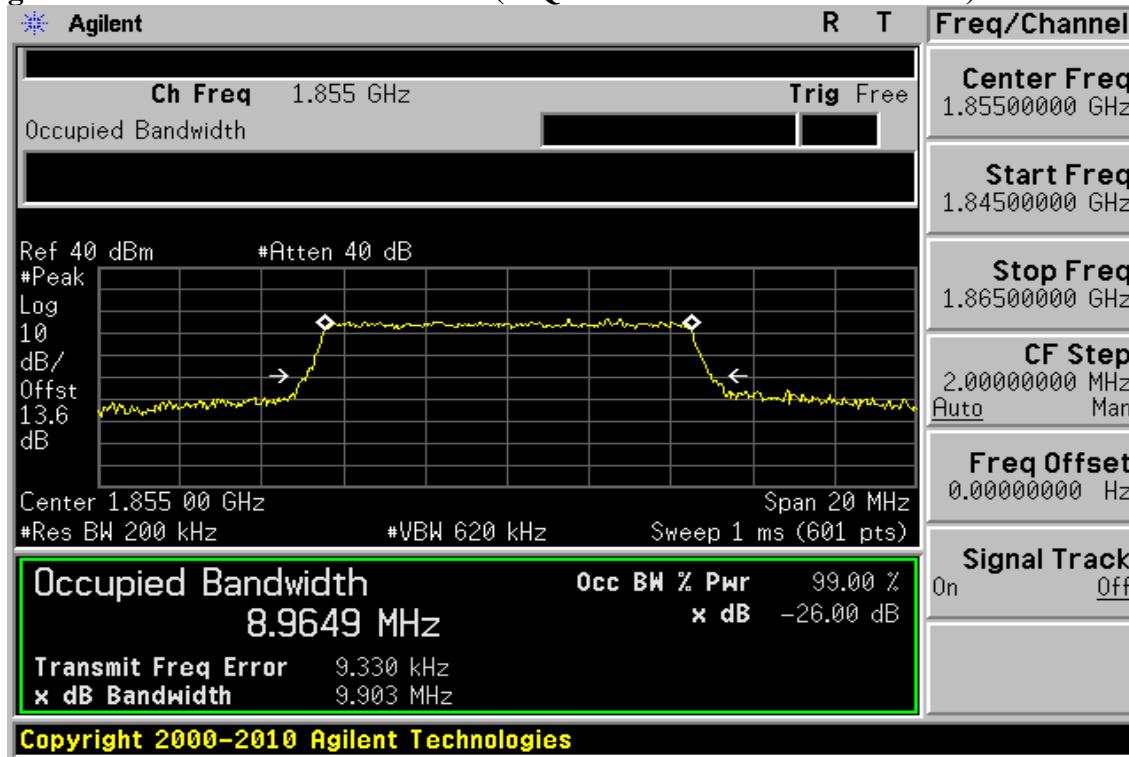


Figure 9-52: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 9-53: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid

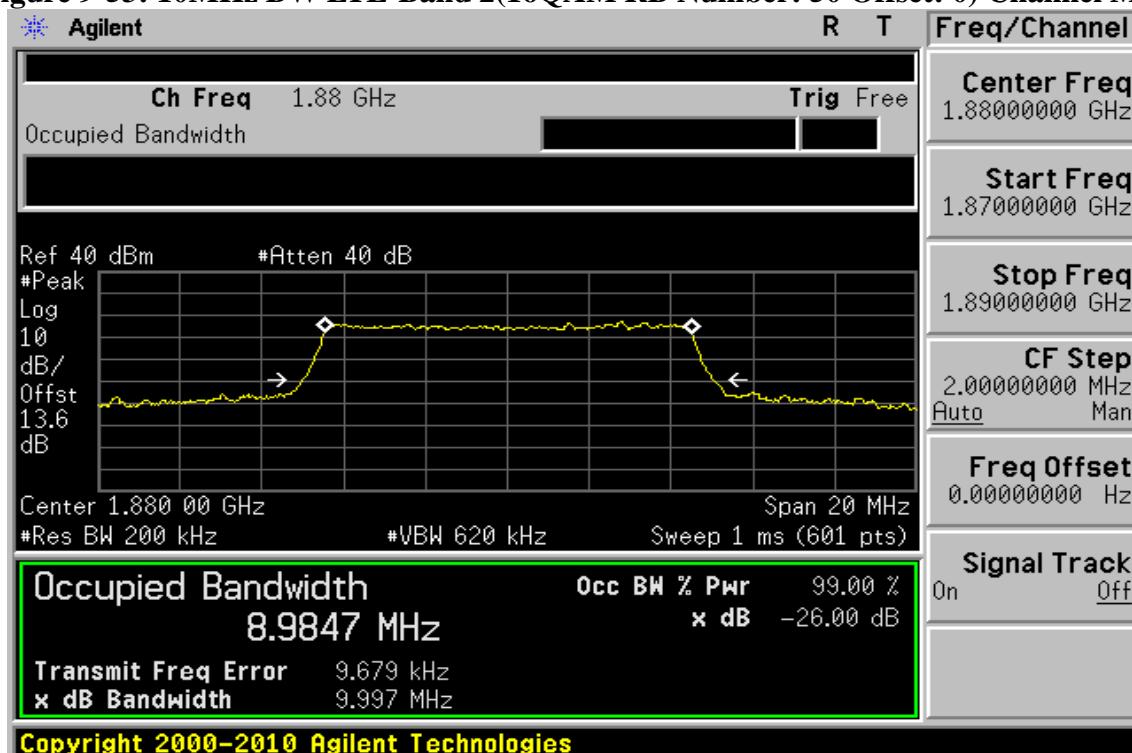
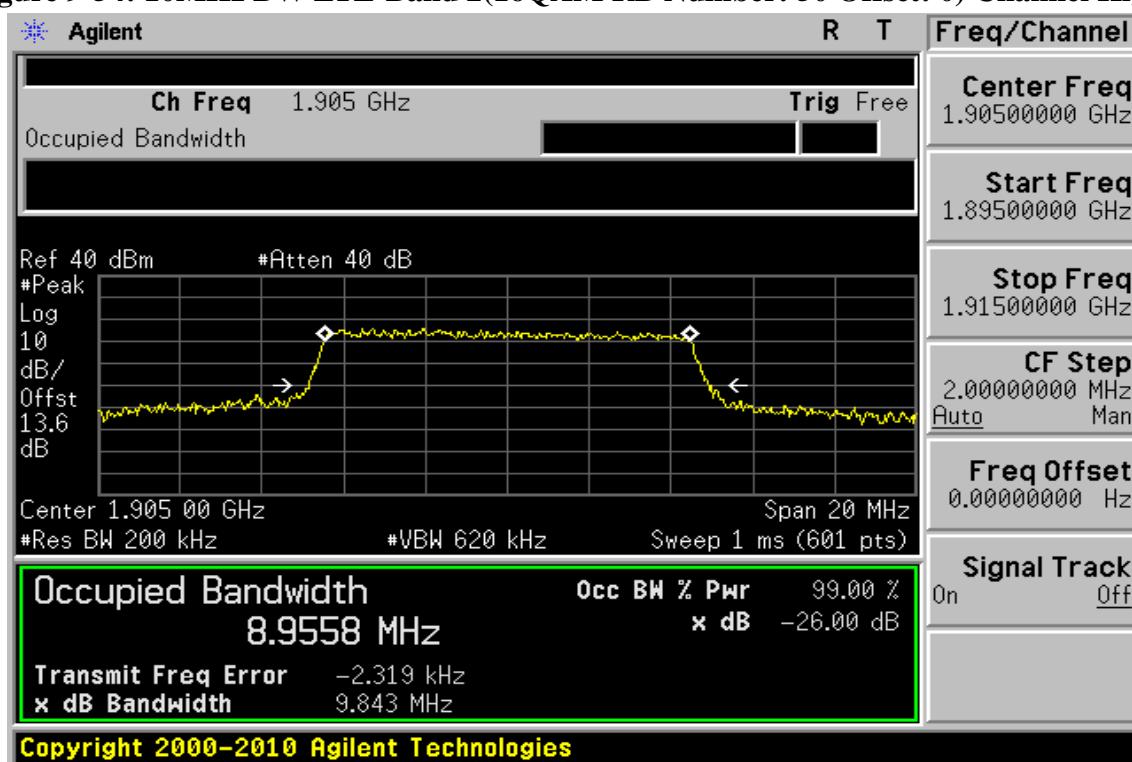


Figure 9-54: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 9-55: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low

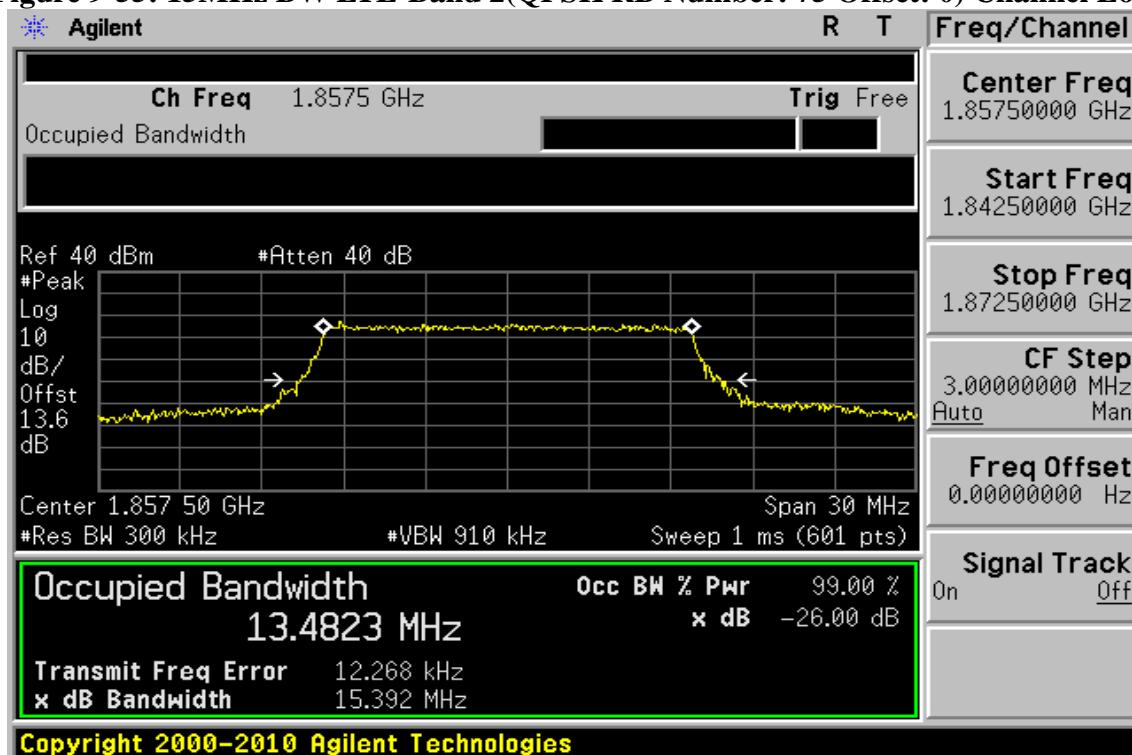
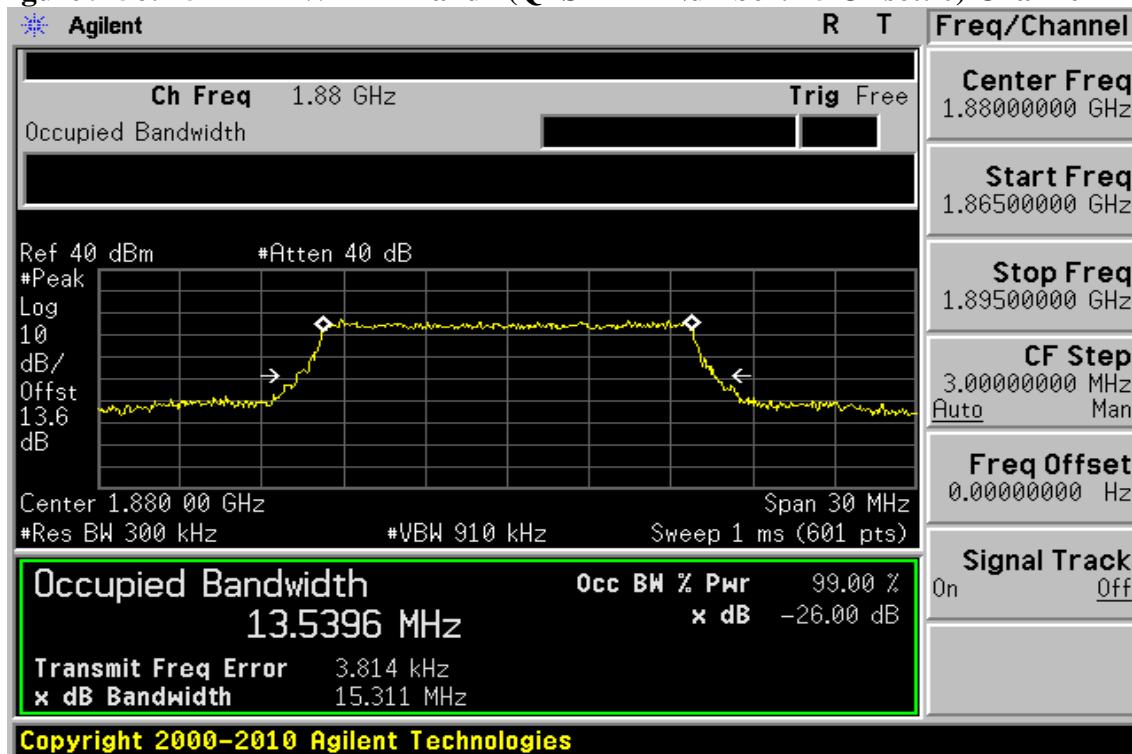


Figure 9-56: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 9-57: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High

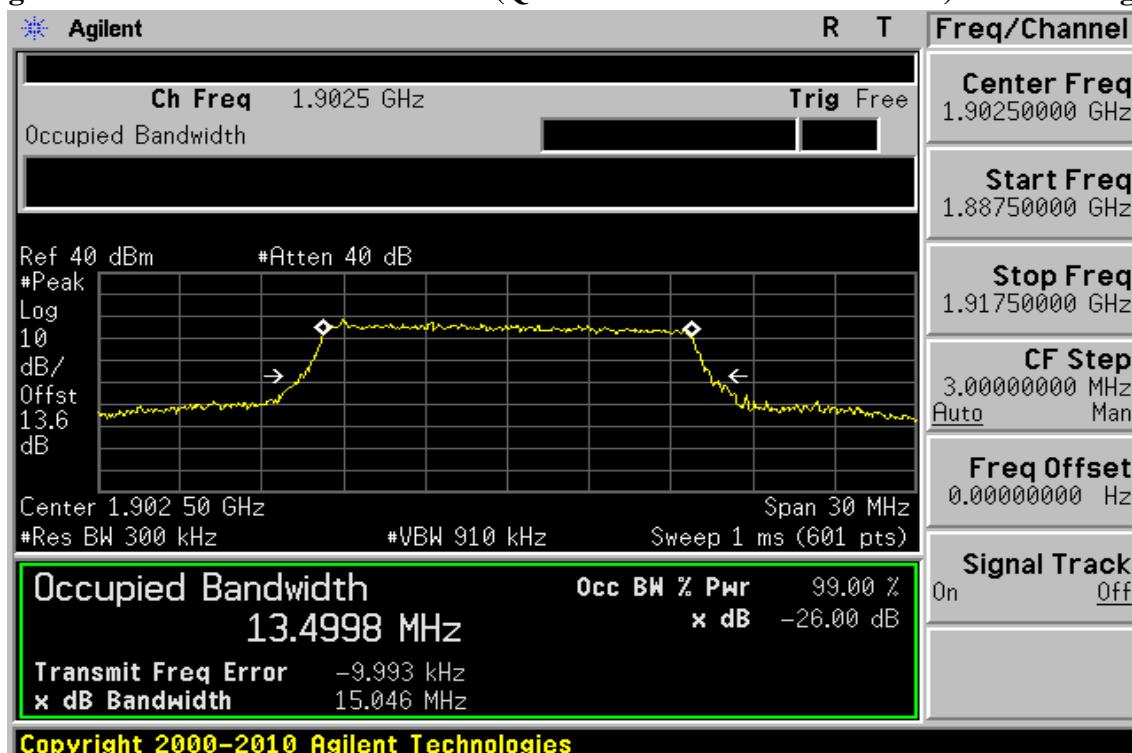
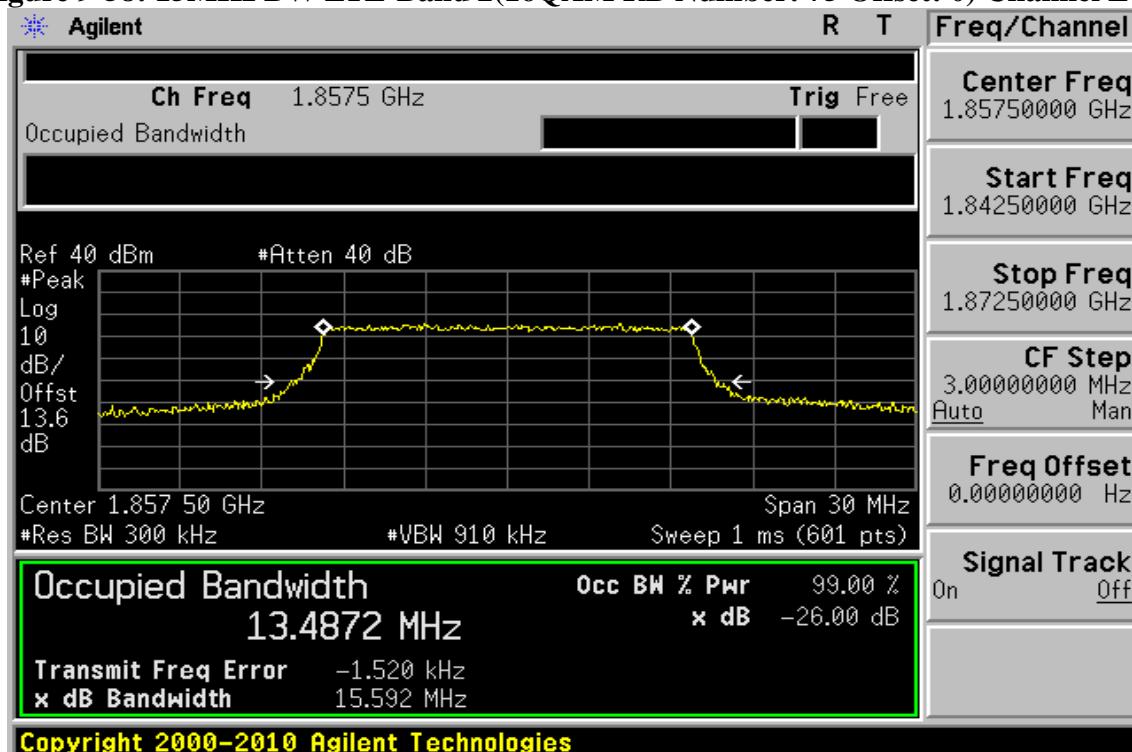


Figure 9-58: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 9-59: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid

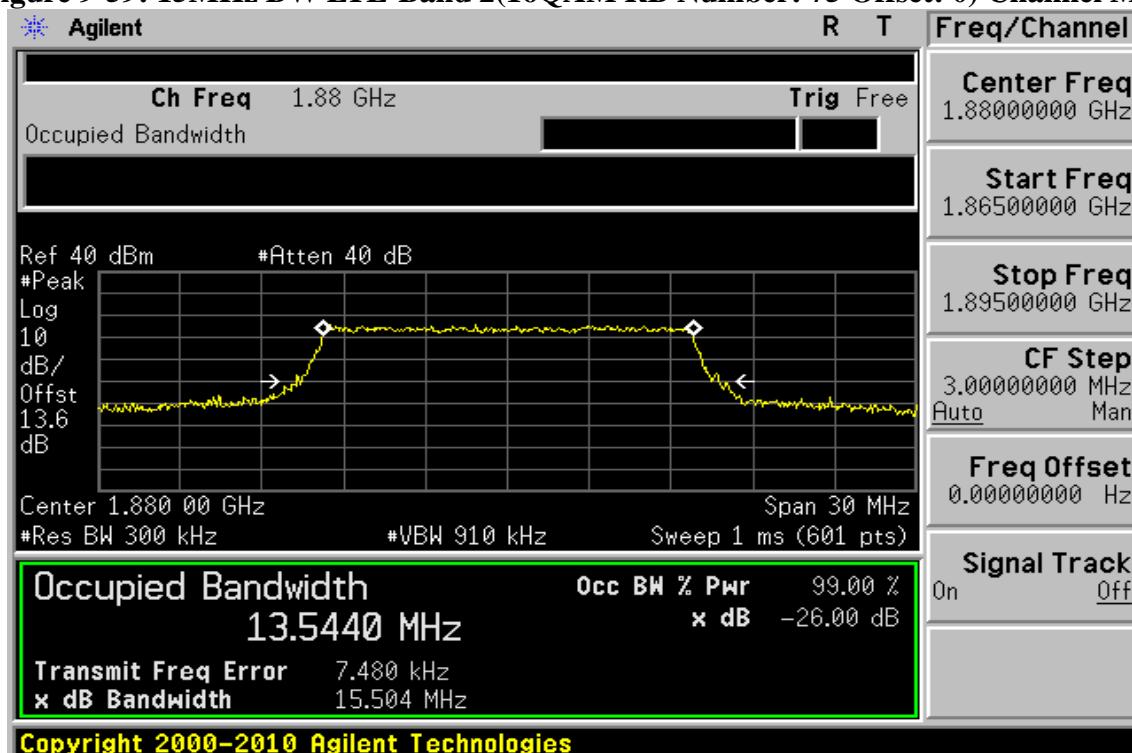
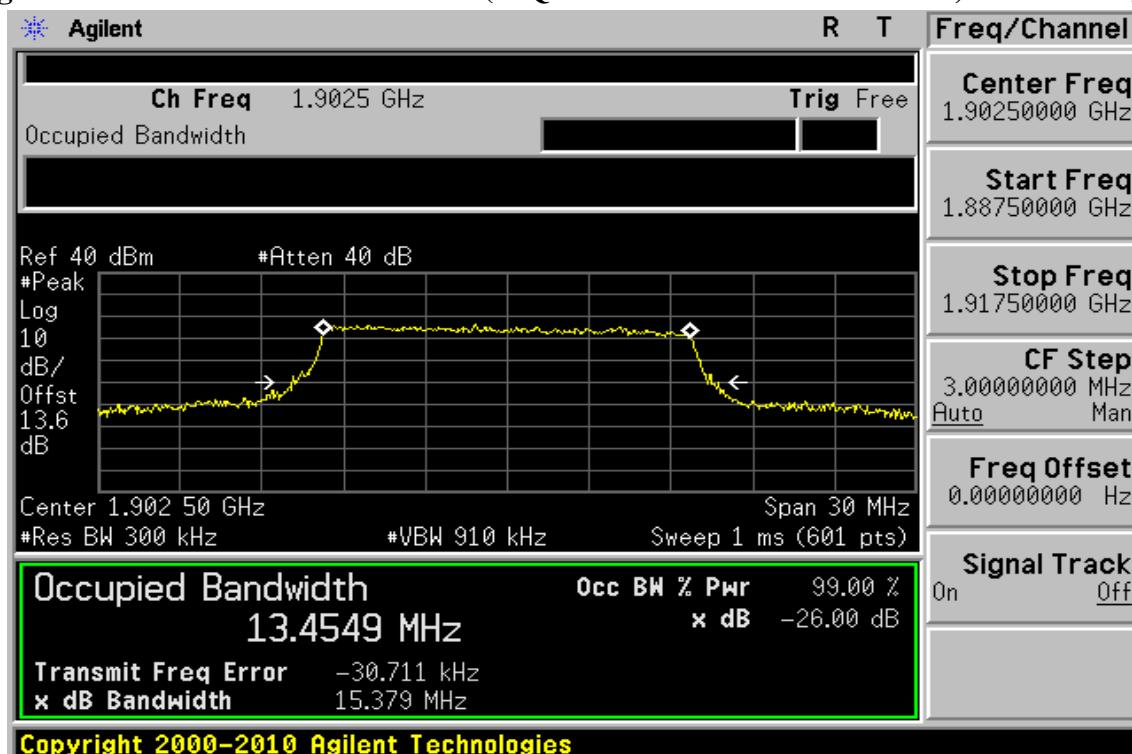


Figure 9-60: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel High



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Figure 9-61: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low

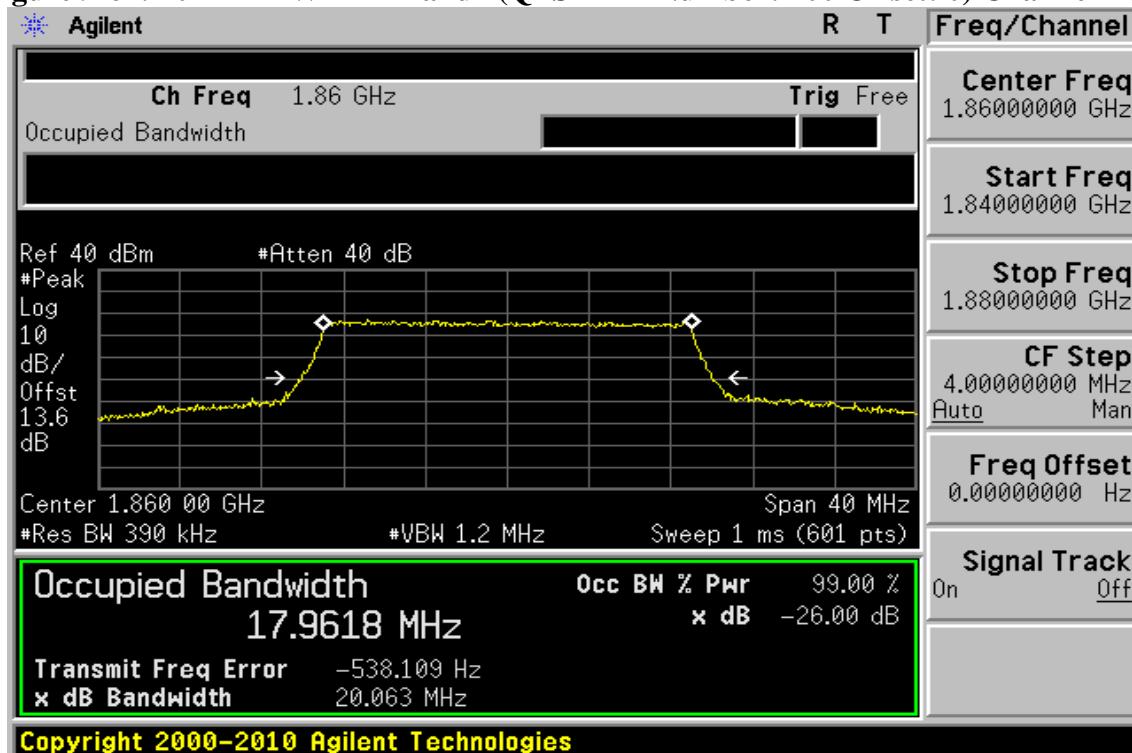
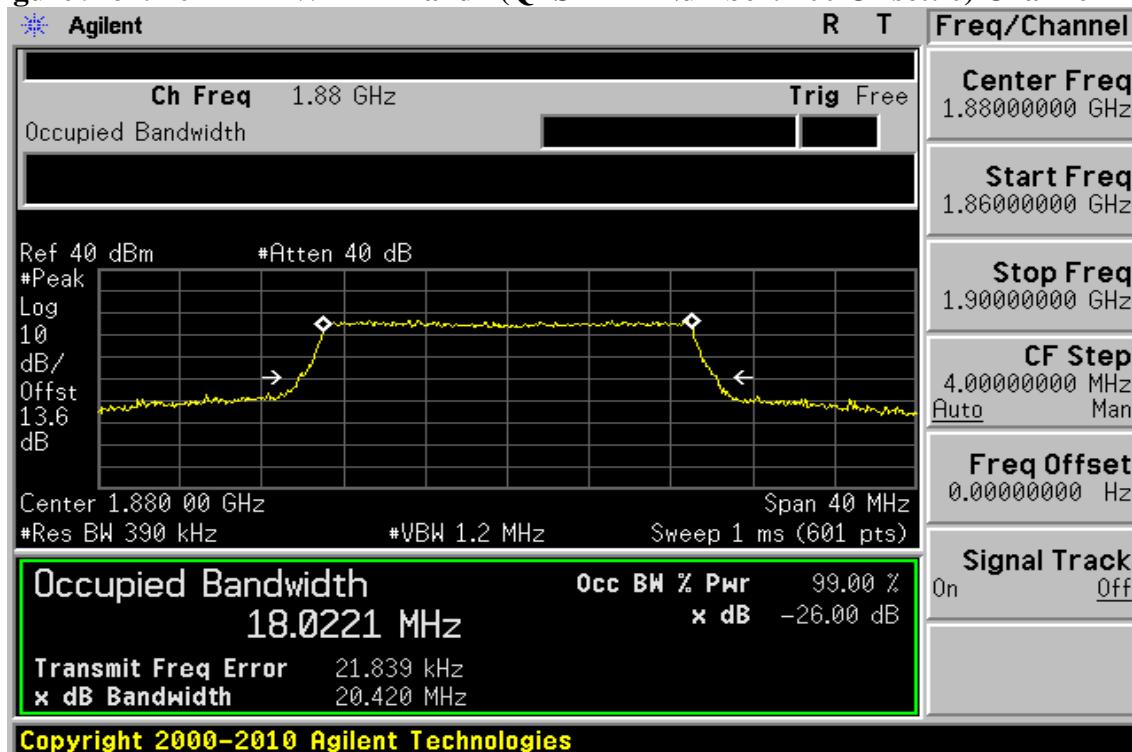


Figure 9-62: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 9-63: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High

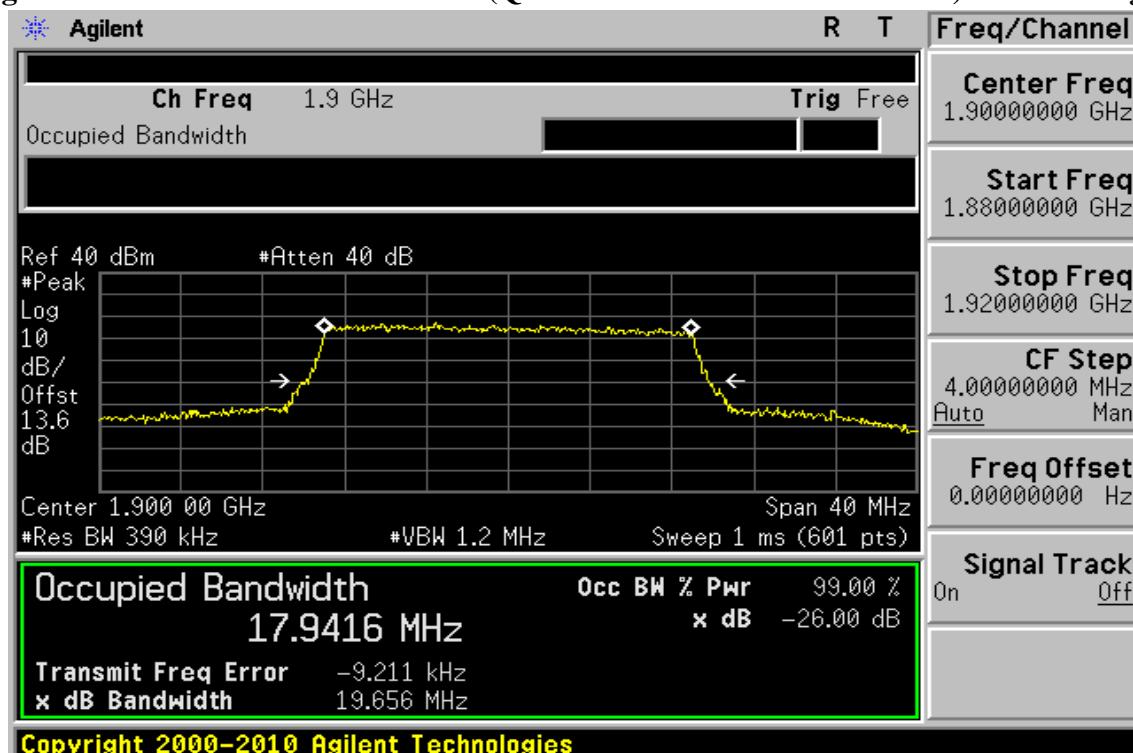
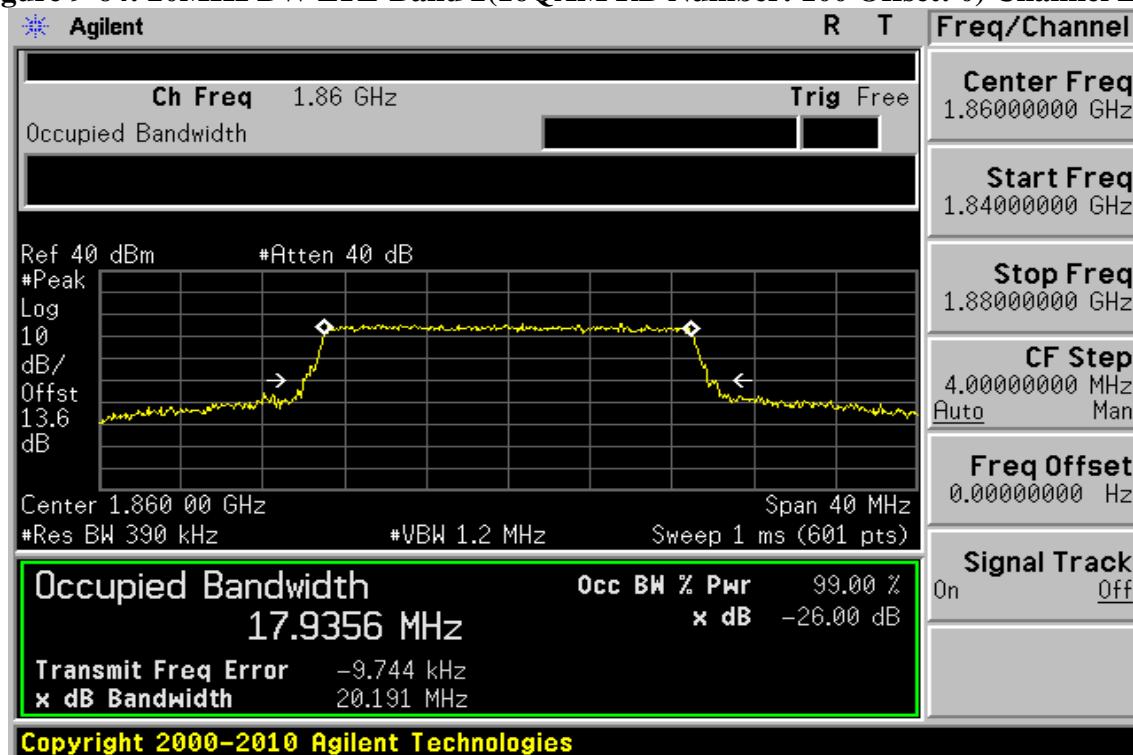


Figure 9-64: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Low



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Figure 9-65: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid

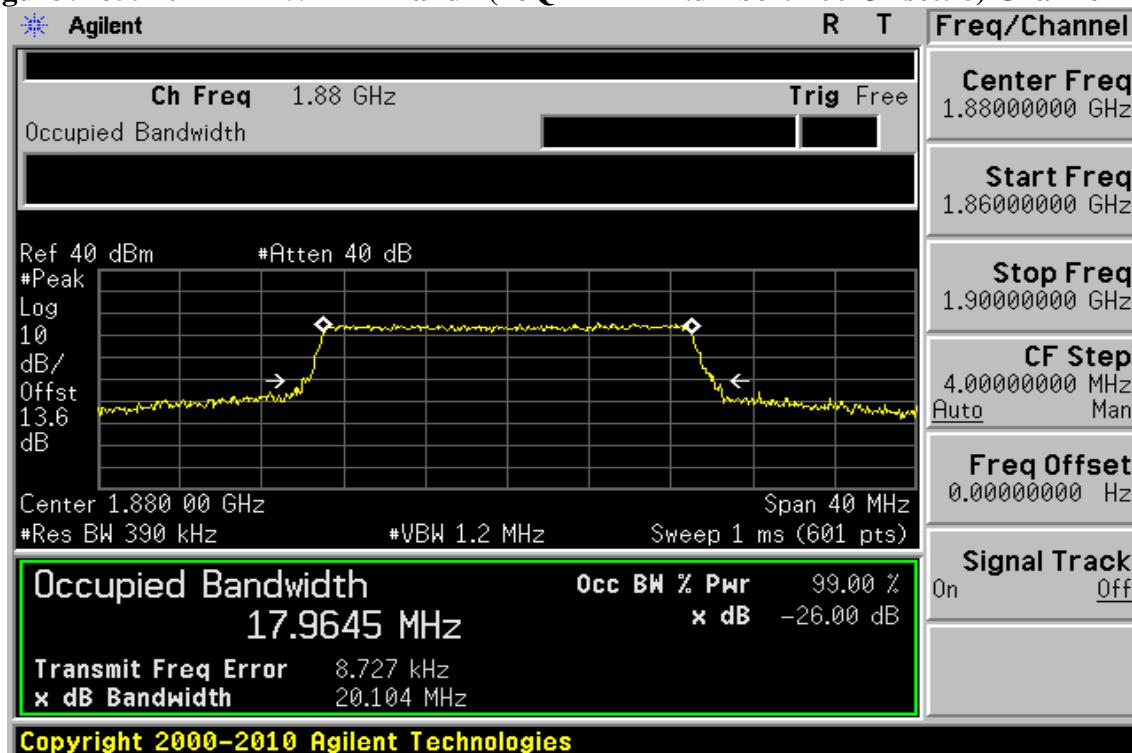
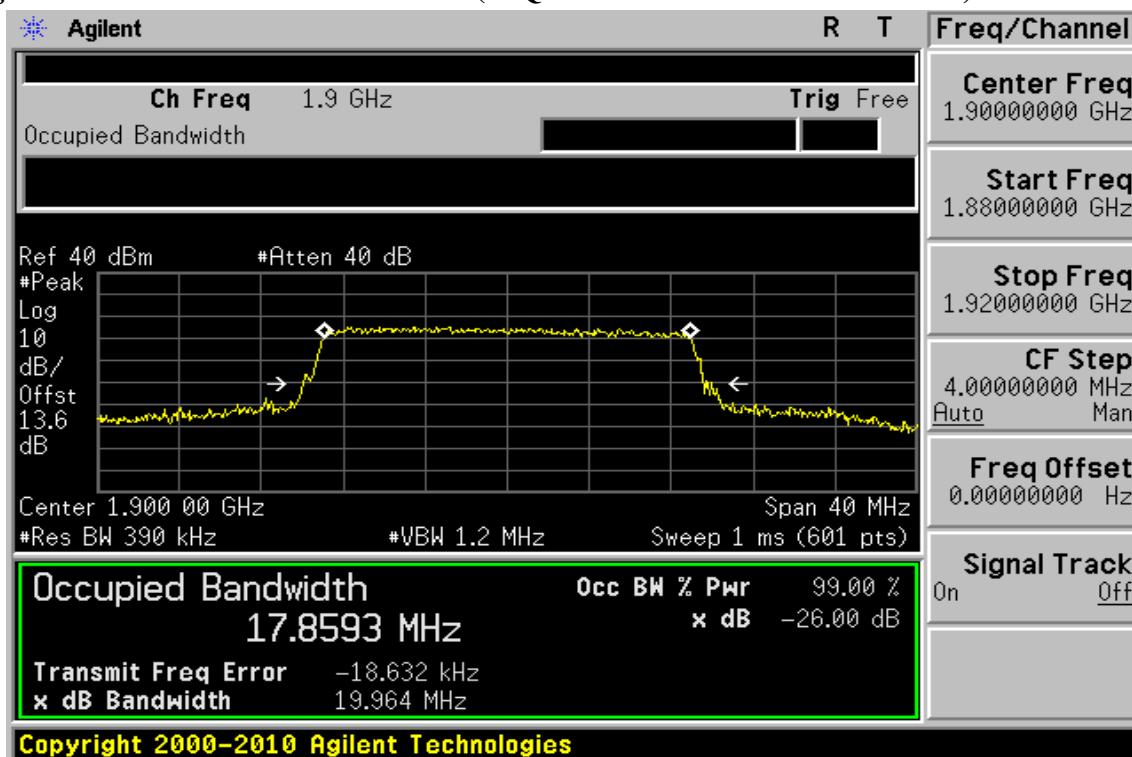


Figure 9-66: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel High



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Figure 9-67: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low

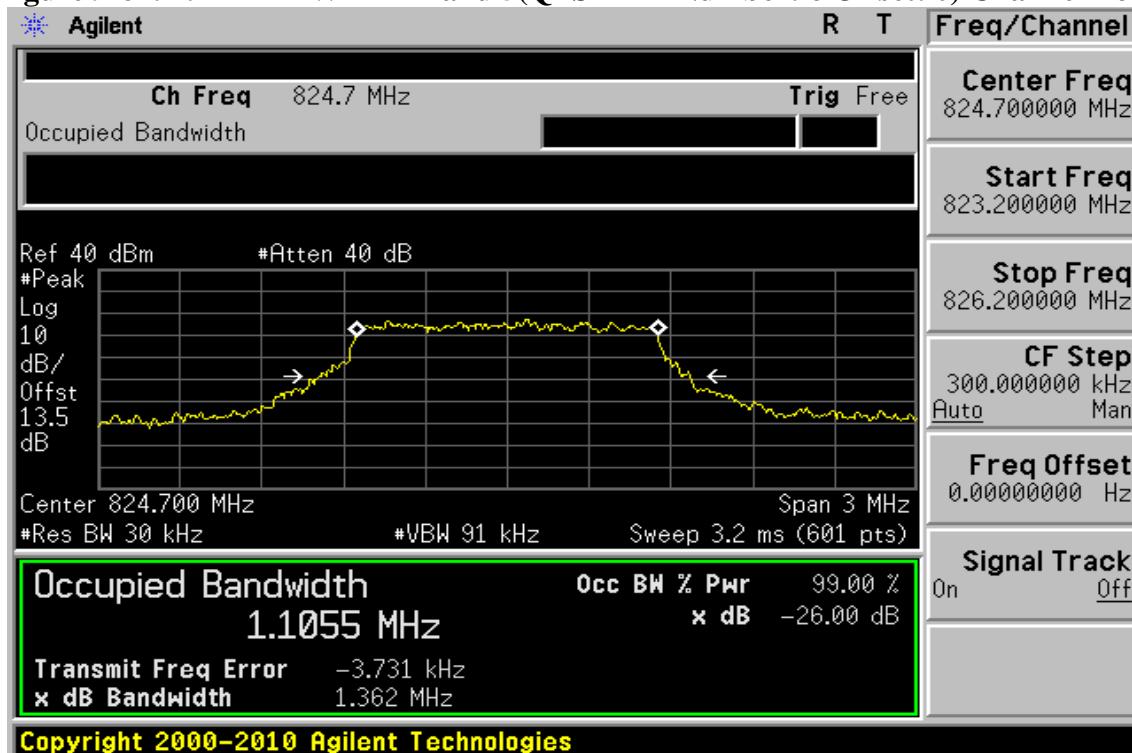
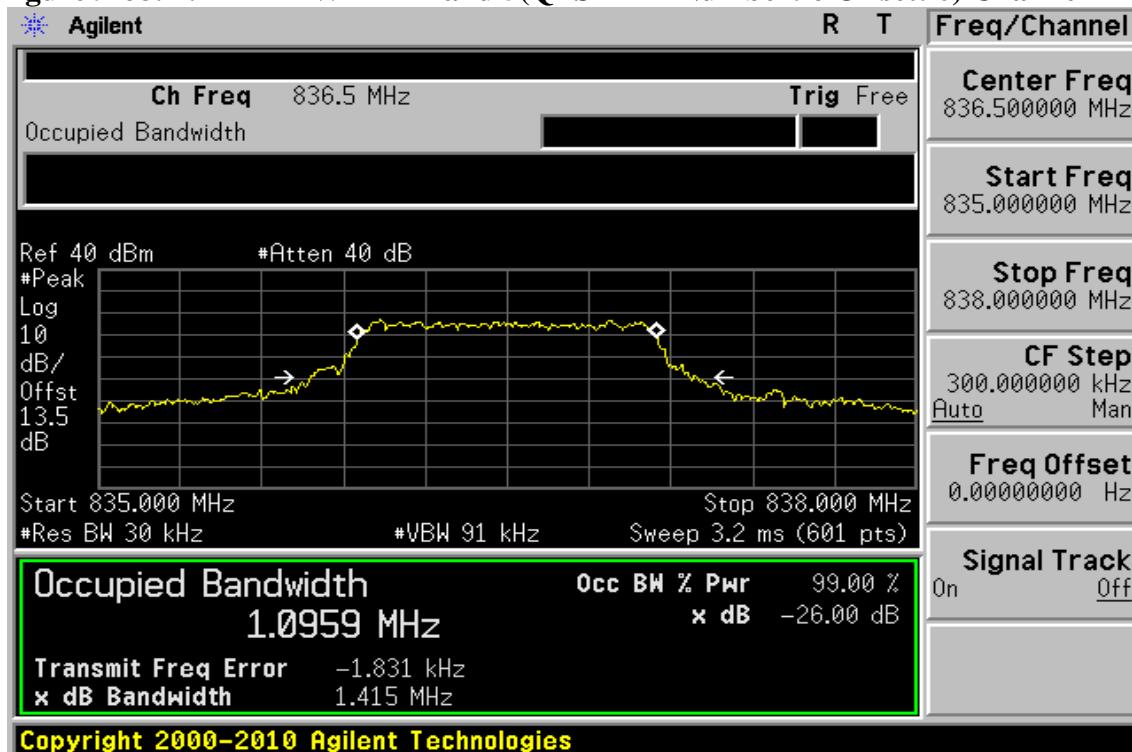


Figure 9-68: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 9-69: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel High

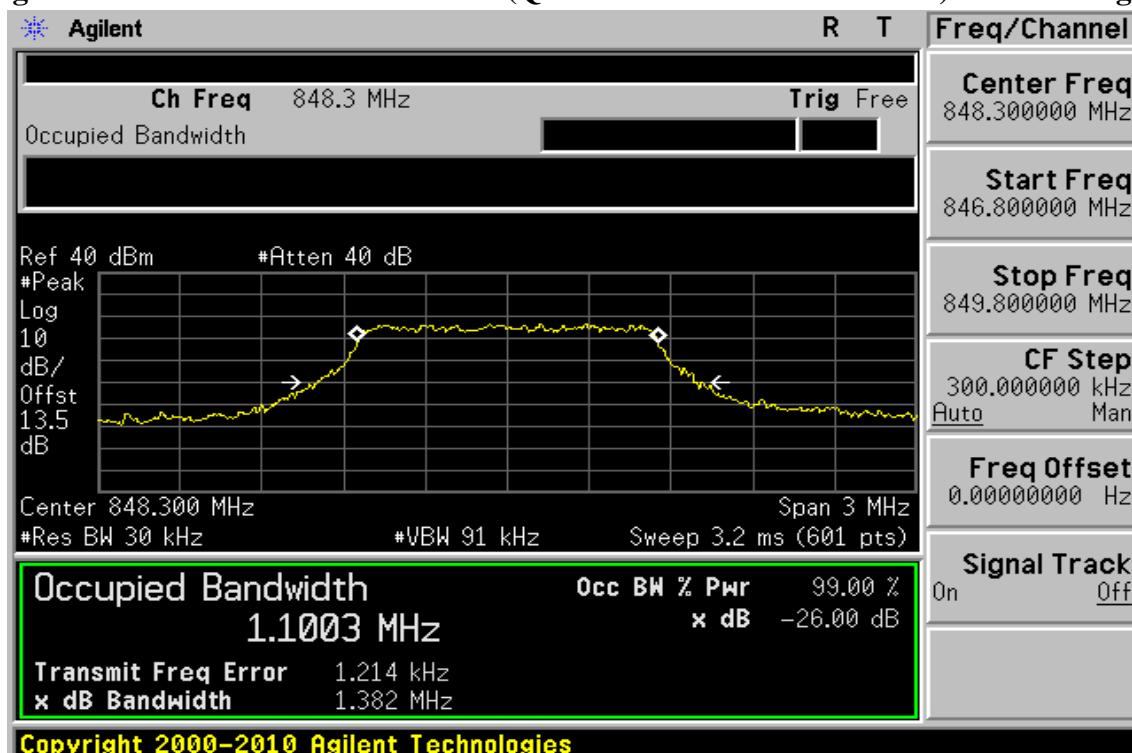
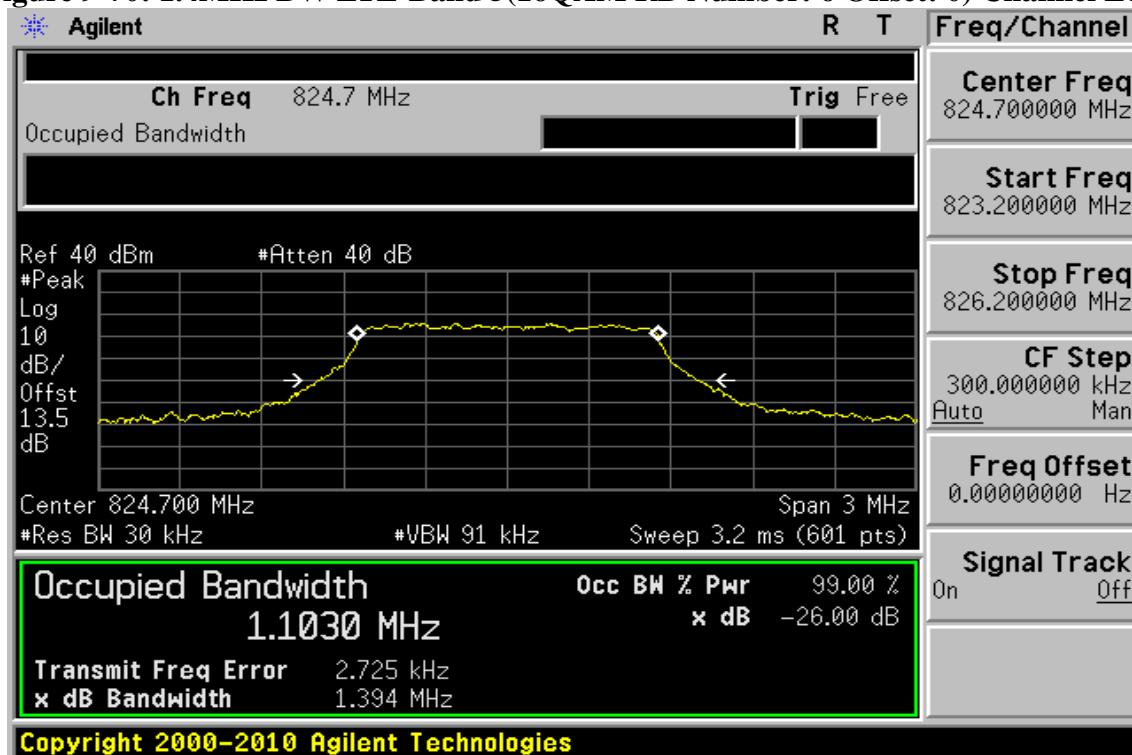


Figure 9-70: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 9-71: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Mid

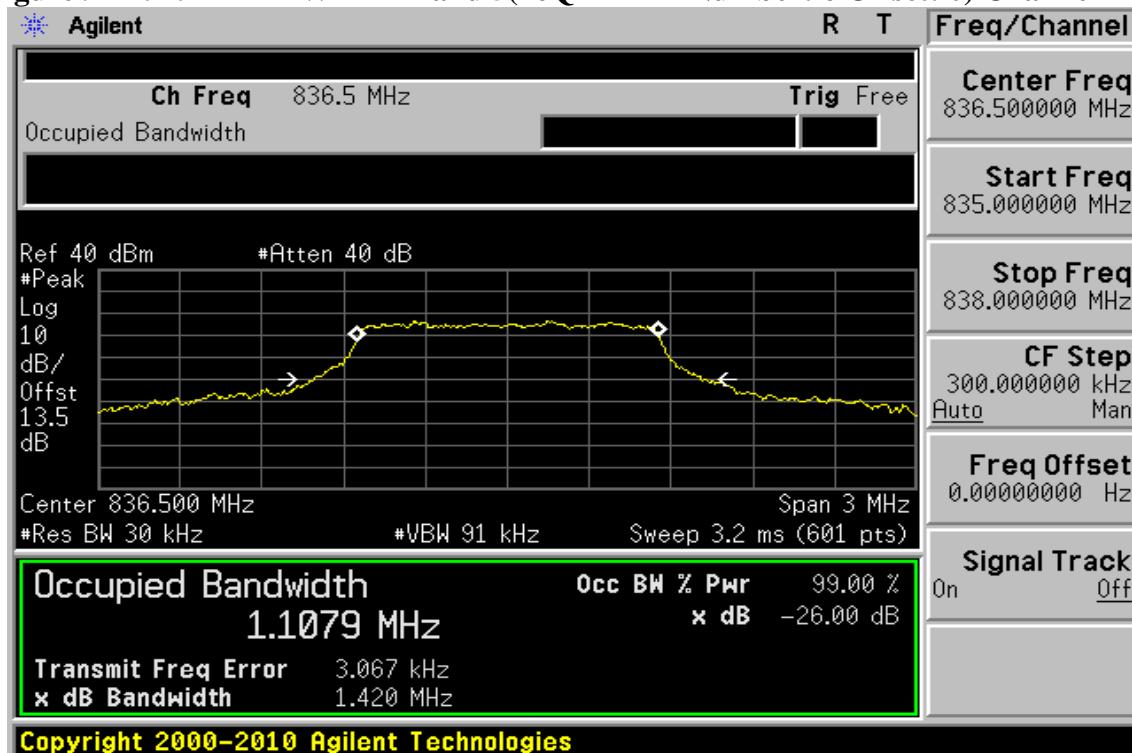
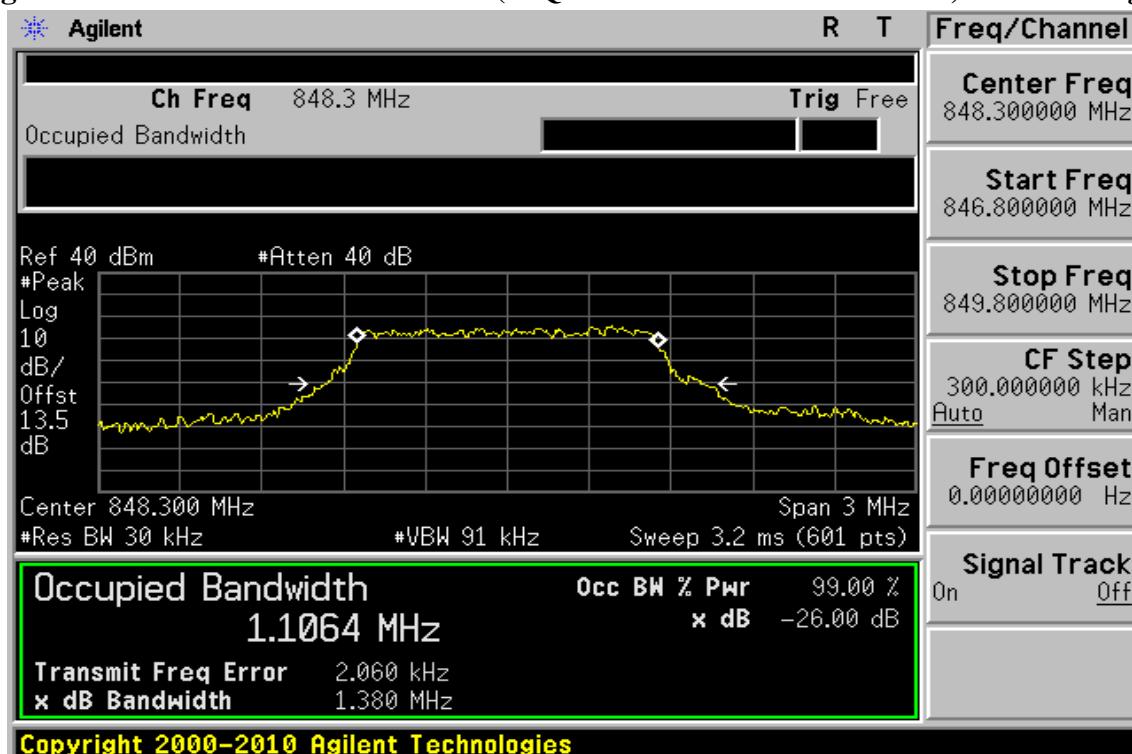


Figure 9-72: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 9-73: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Low

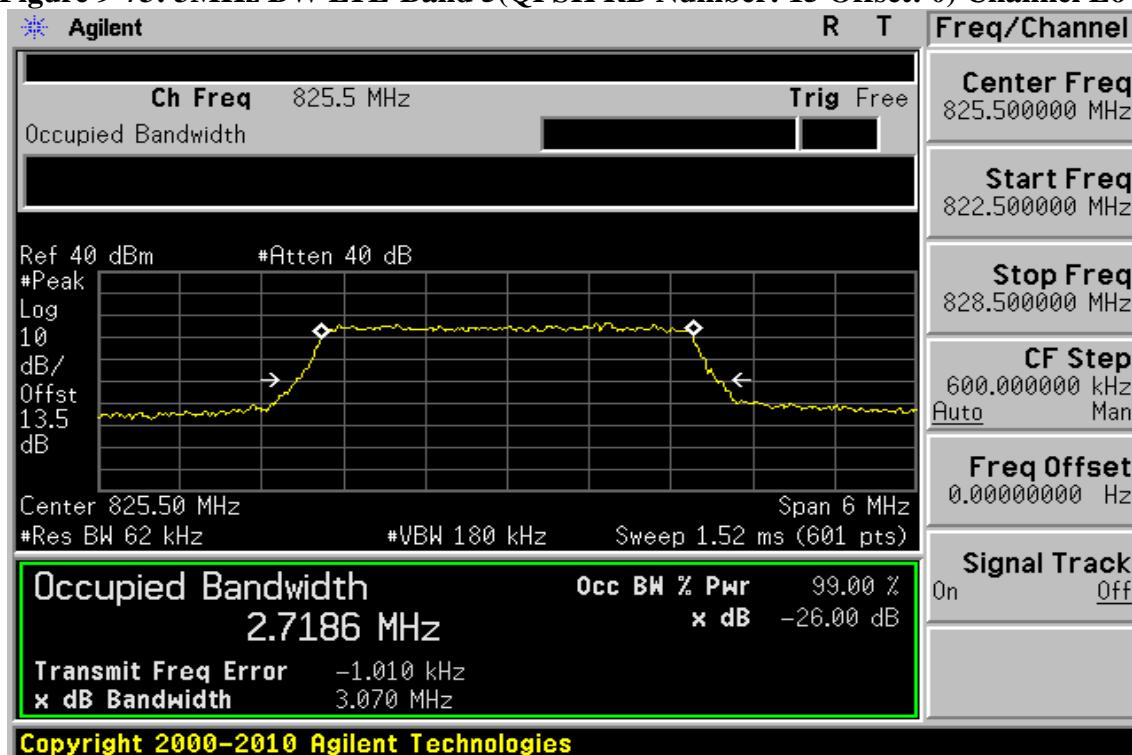
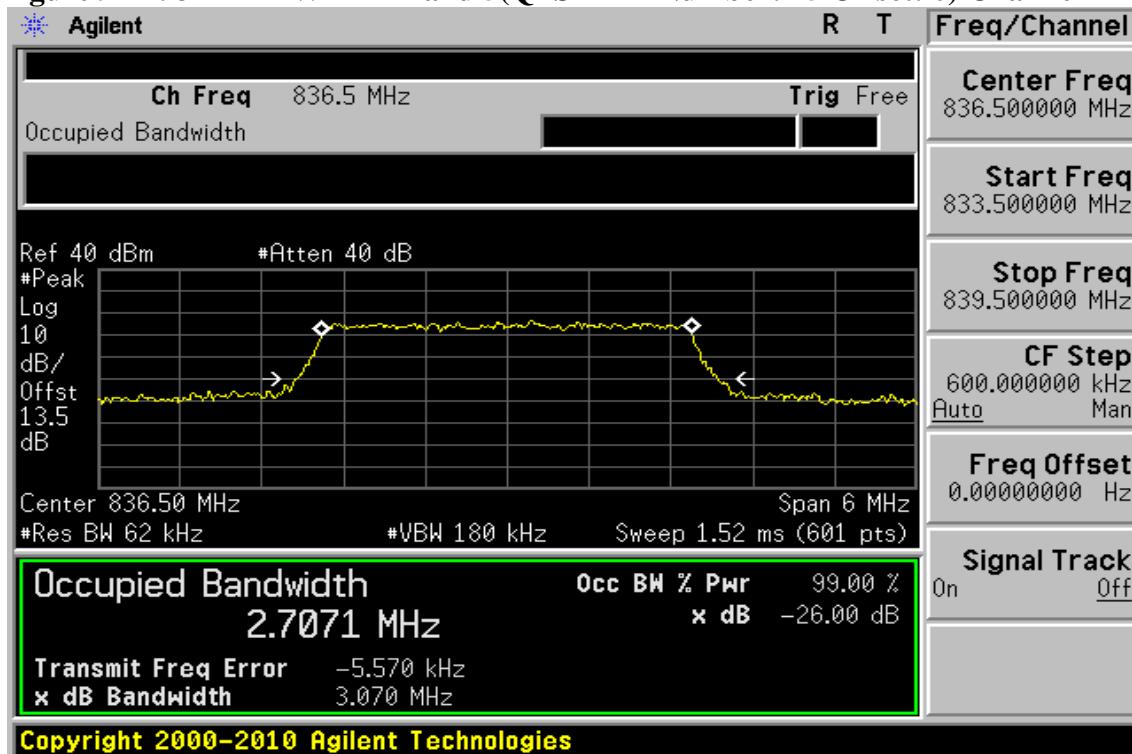


Figure 9-74: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Mid



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Figure 9-75: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel High

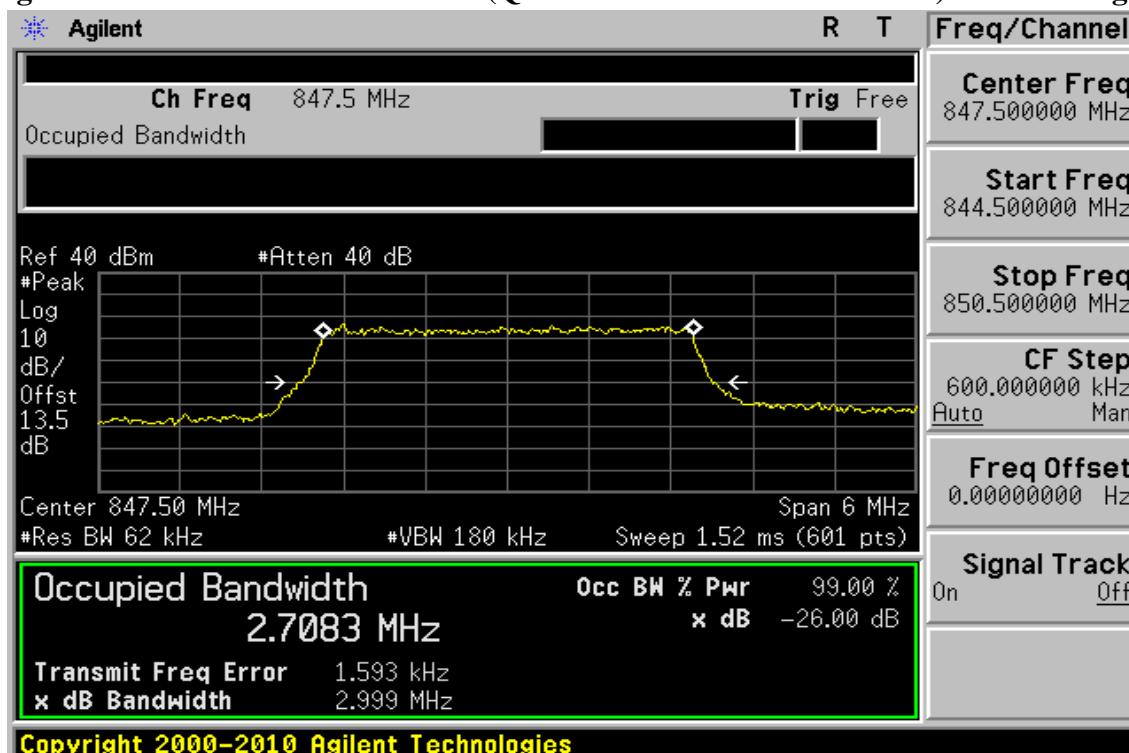
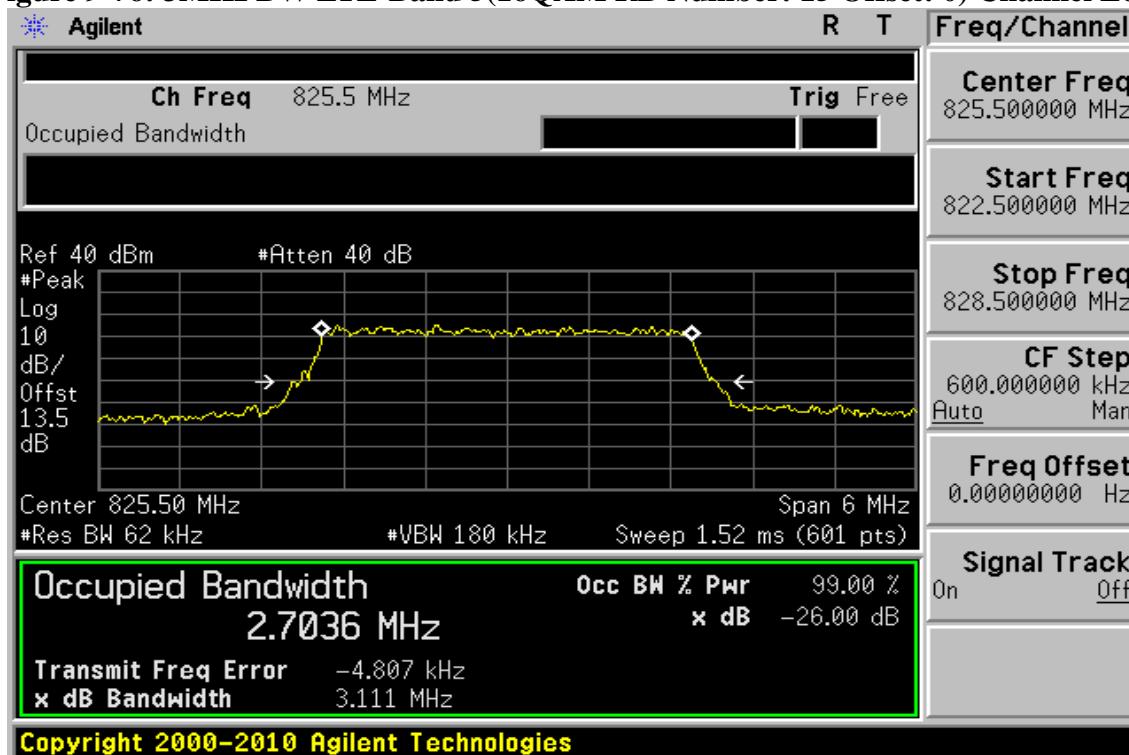


Figure 9-76: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Low



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Figure 9-77: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Mid

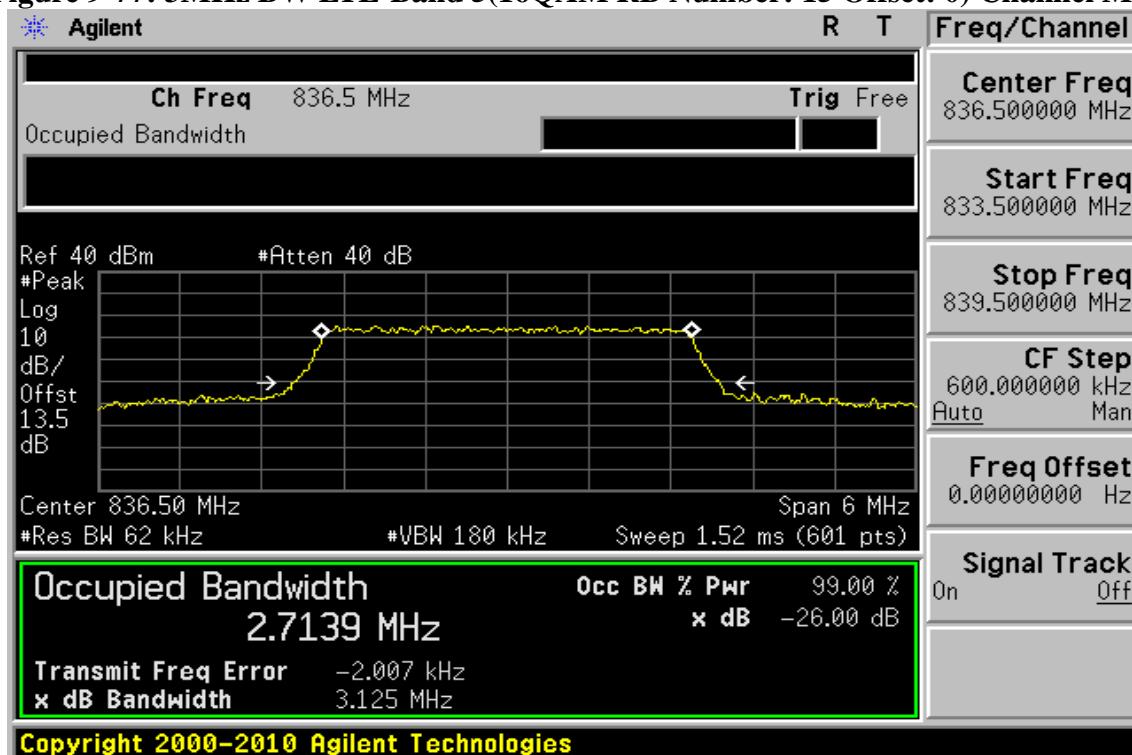
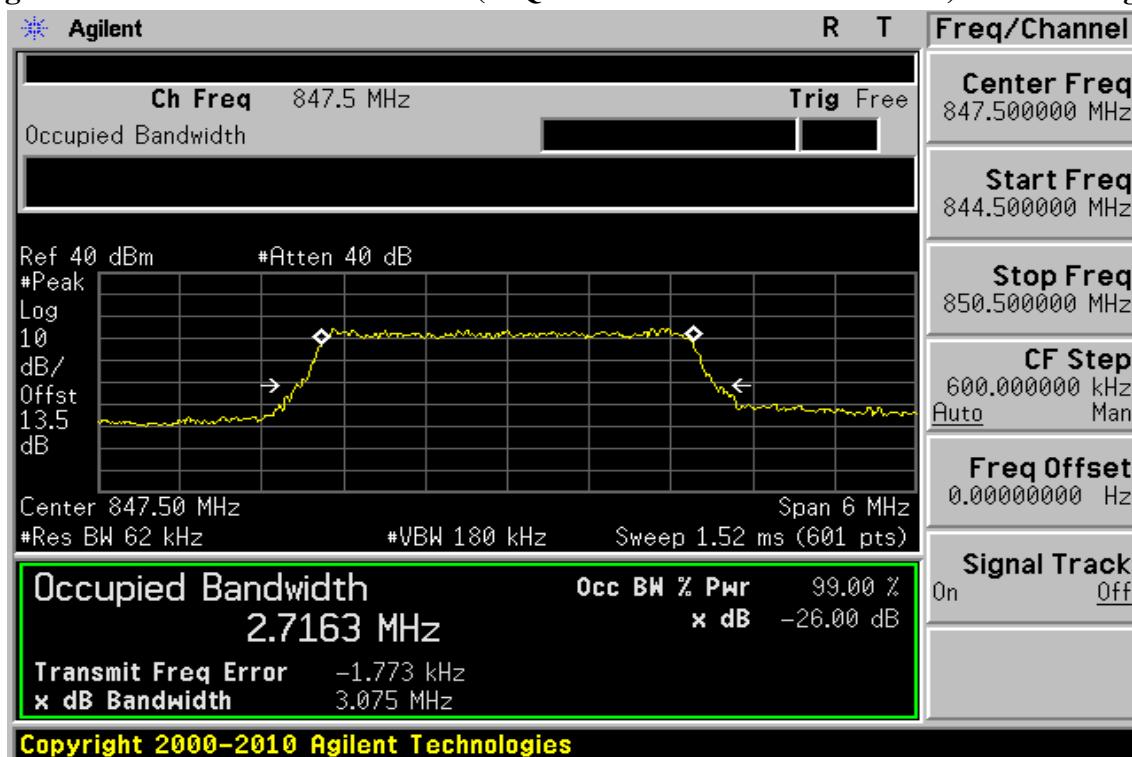


Figure 9-78: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel High



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Figure 9-79: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Low

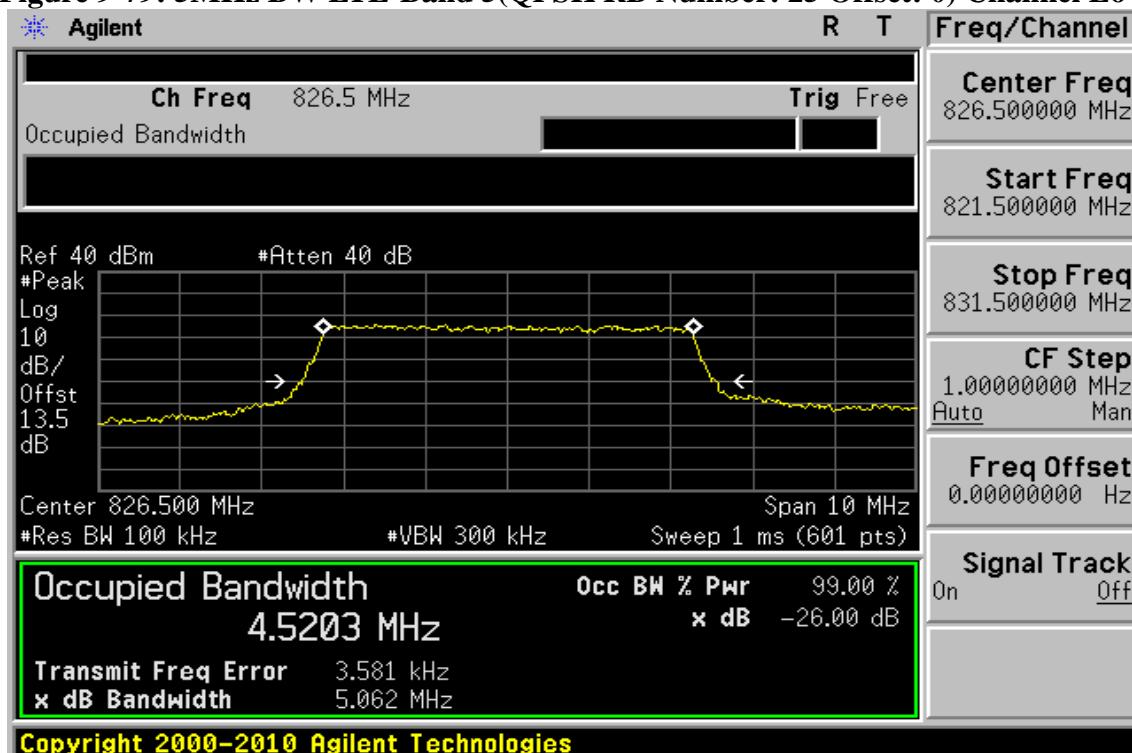
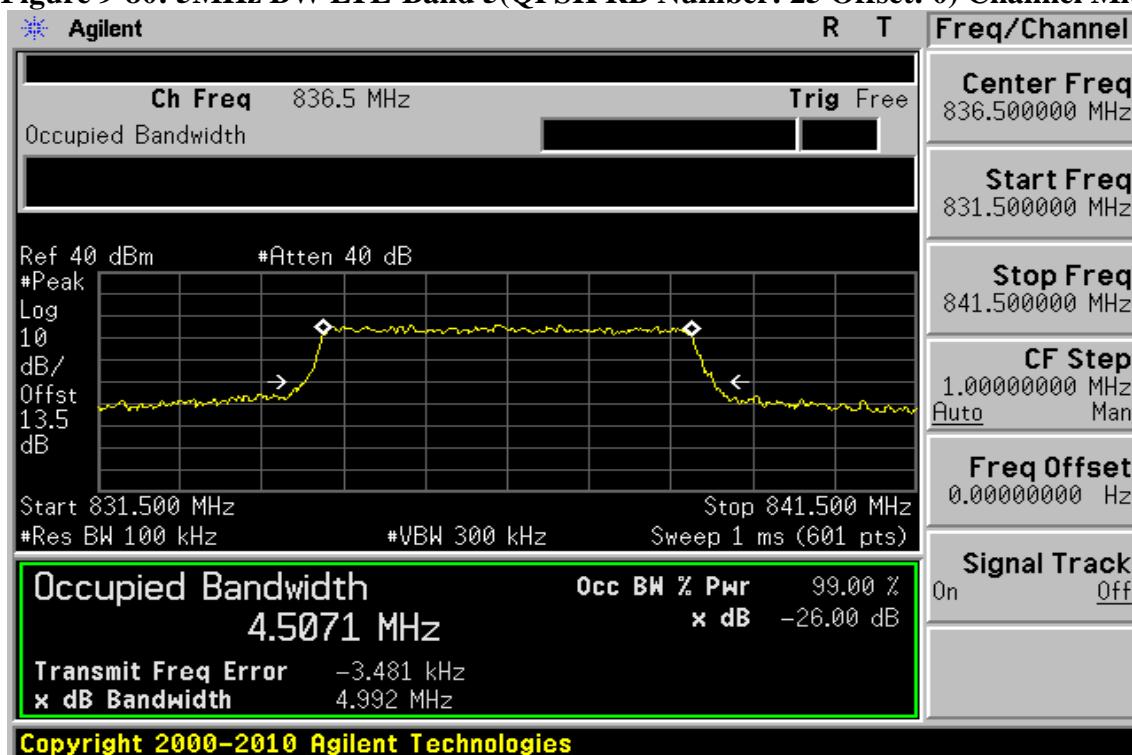


Figure 9-80: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 9-81: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel High

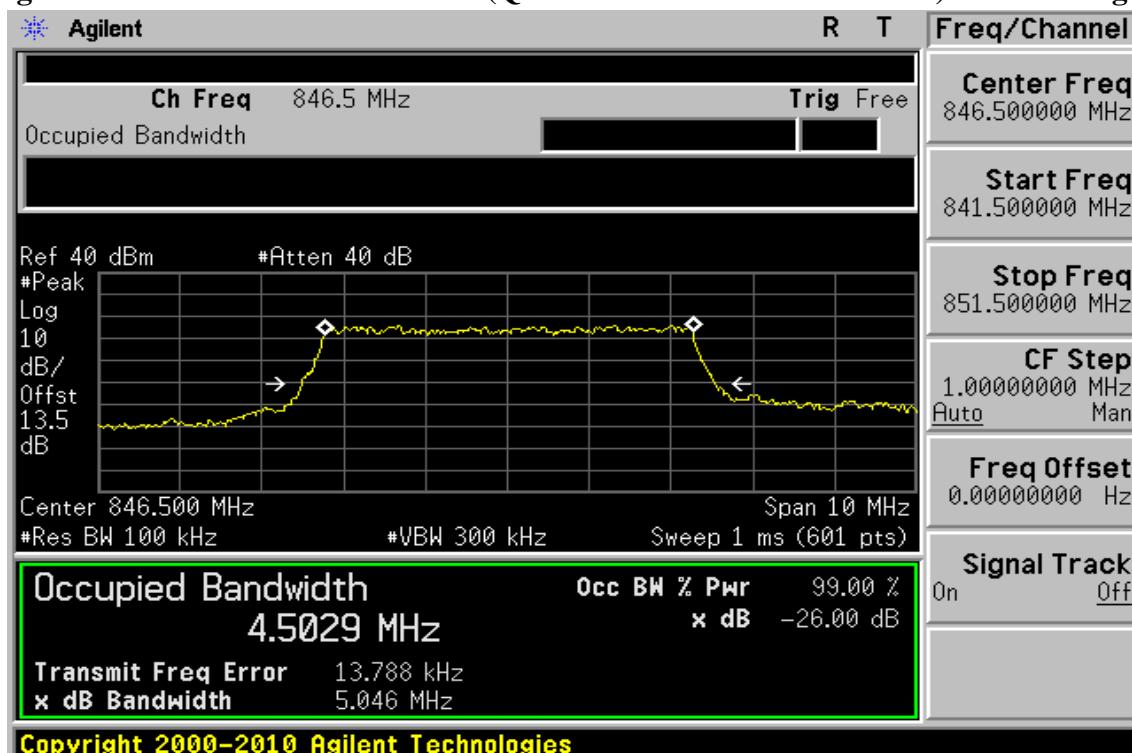
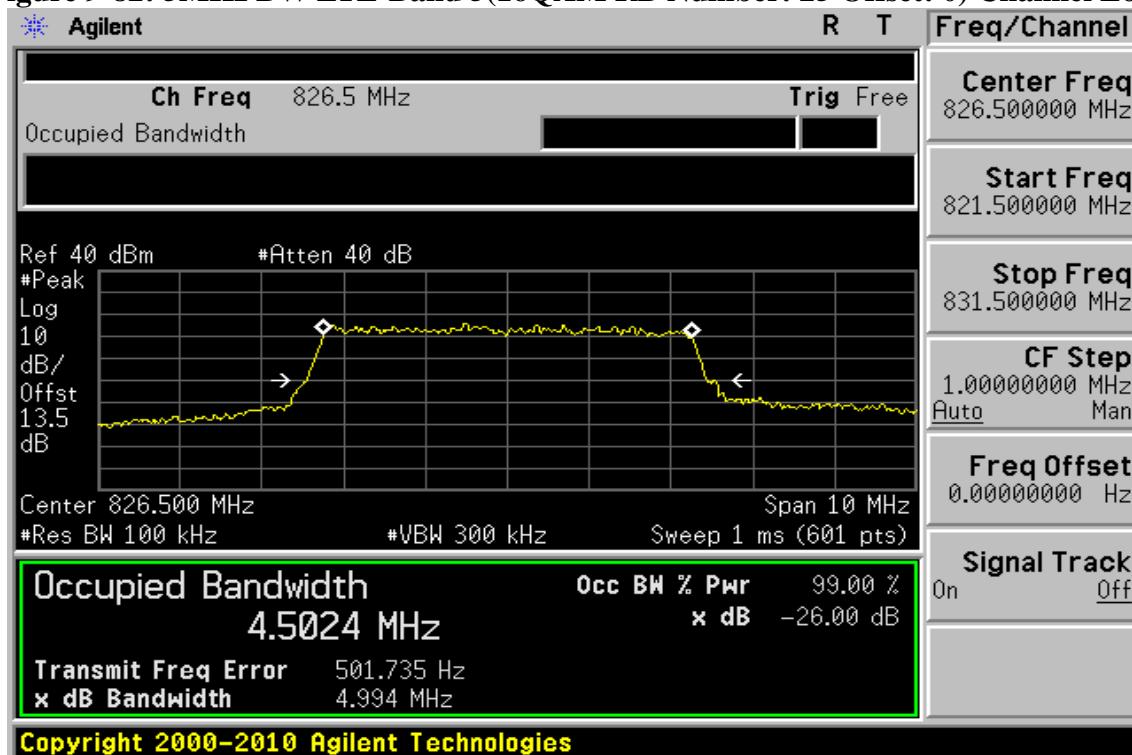


Figure 9-82: 5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 9-83: 5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Mid

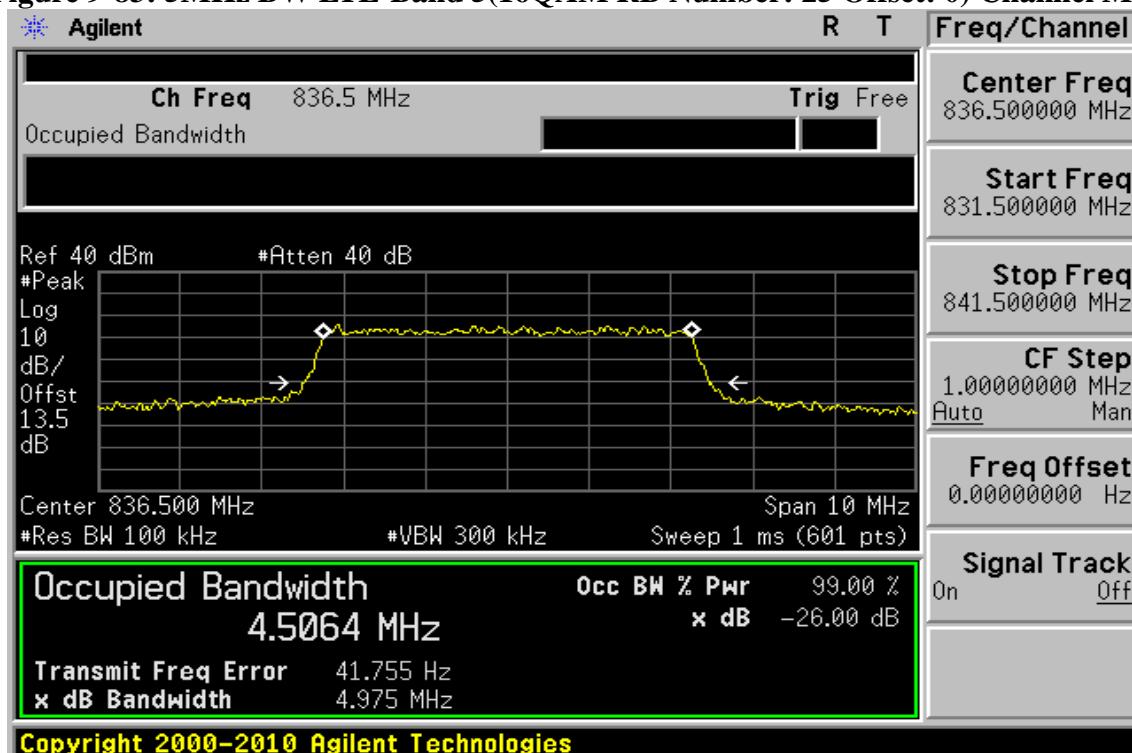
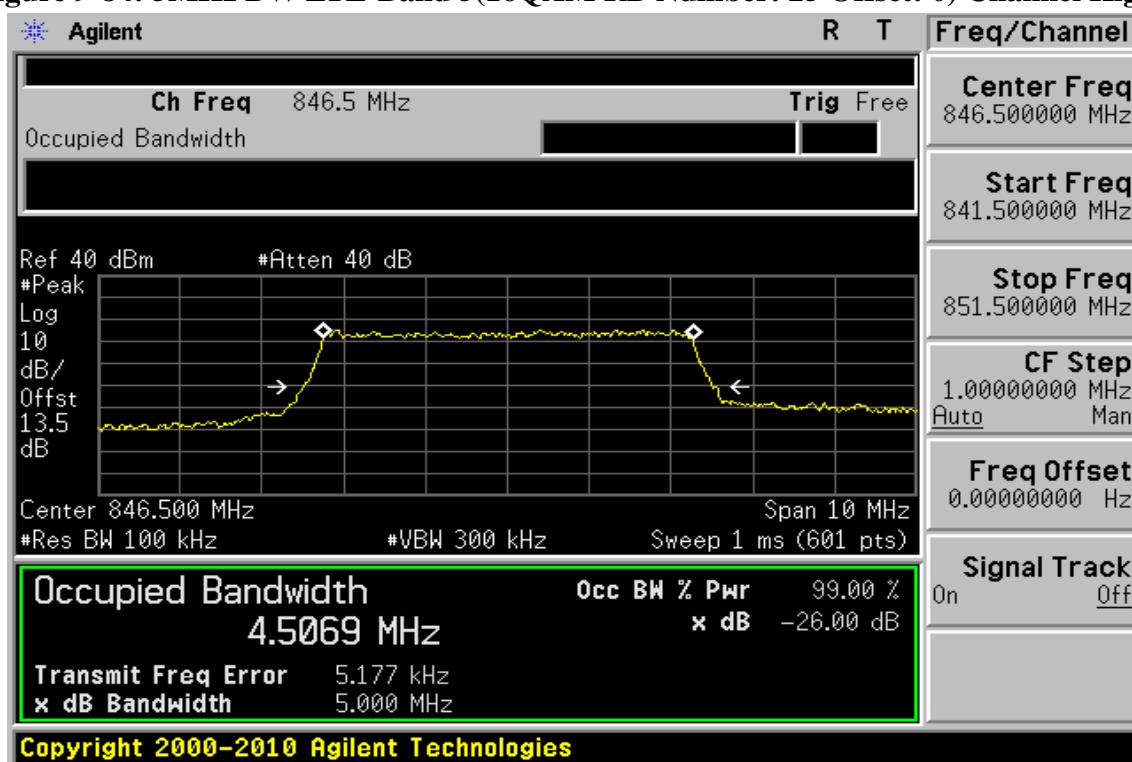


Figure 9-84: 5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 9-85: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Low

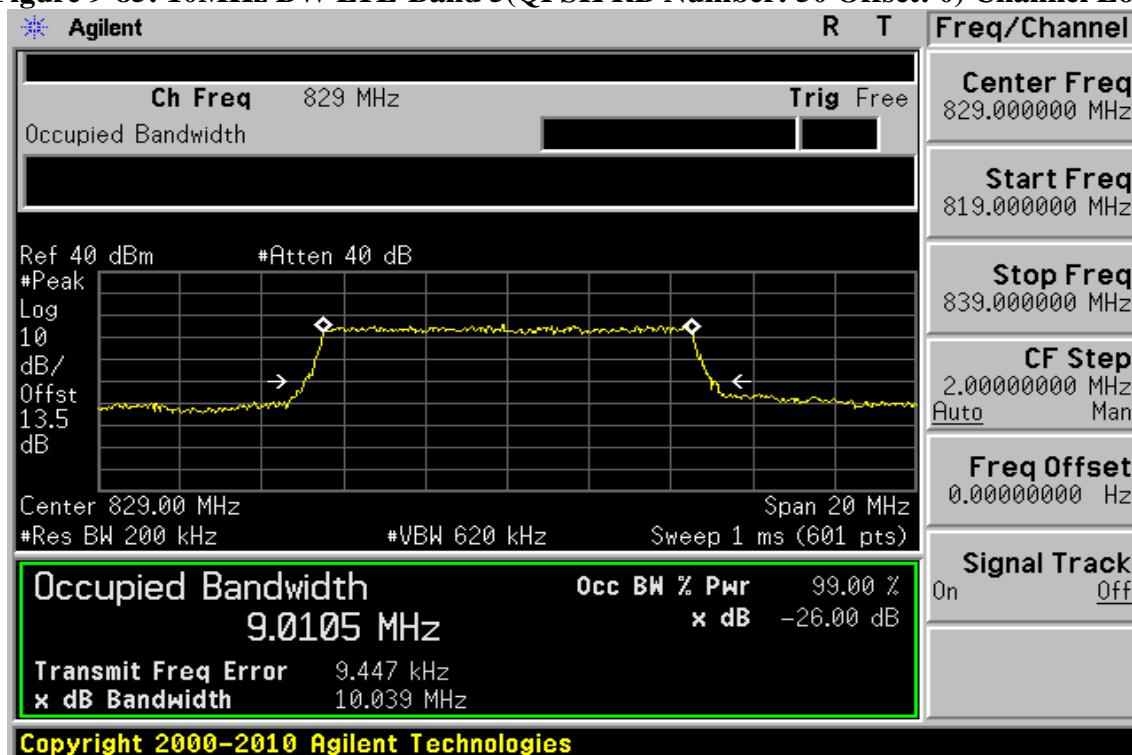
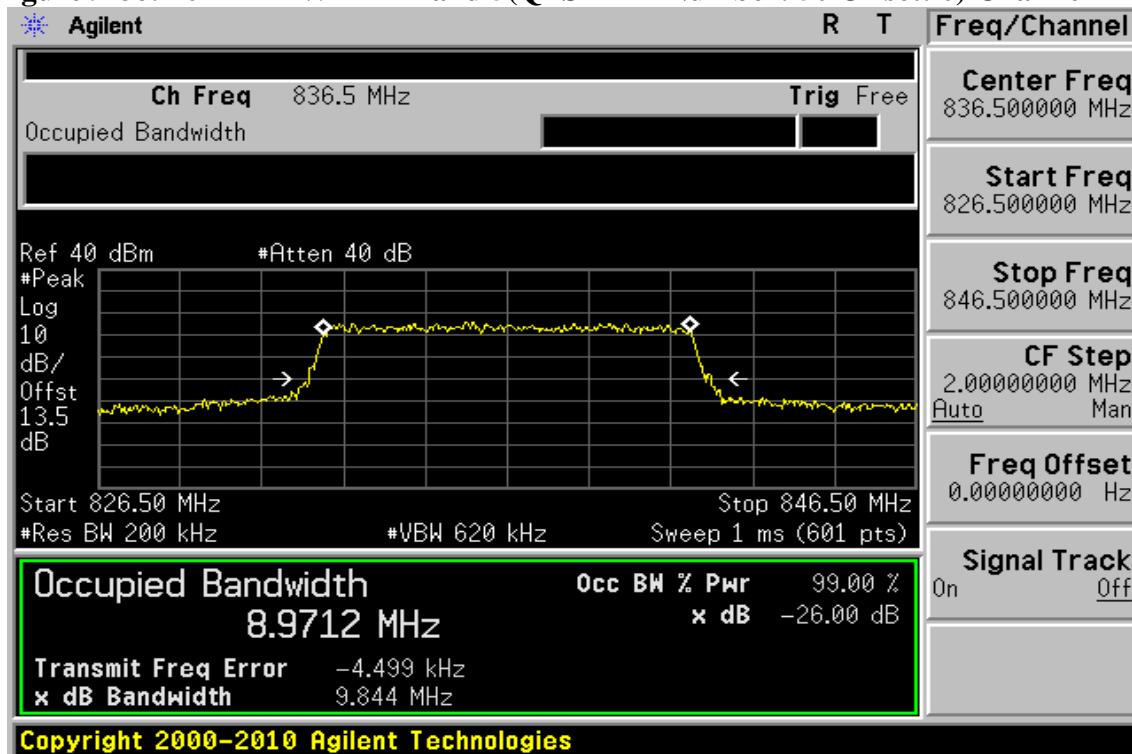


Figure 9-86: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 9-87: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel High

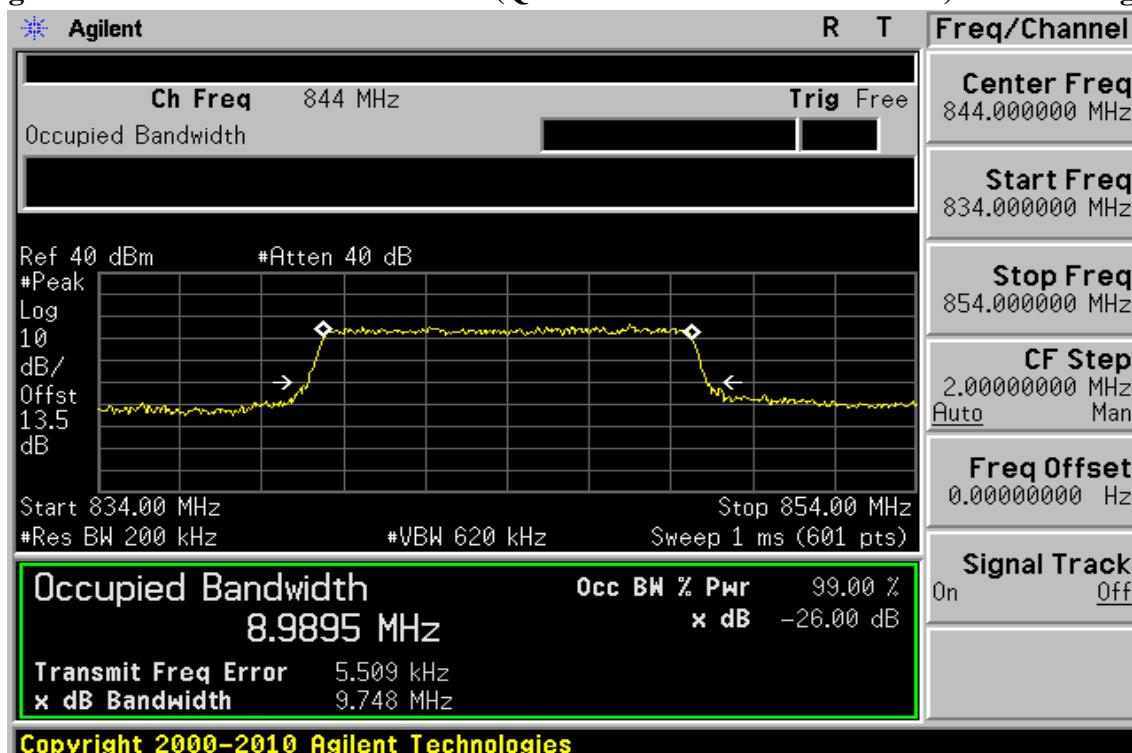
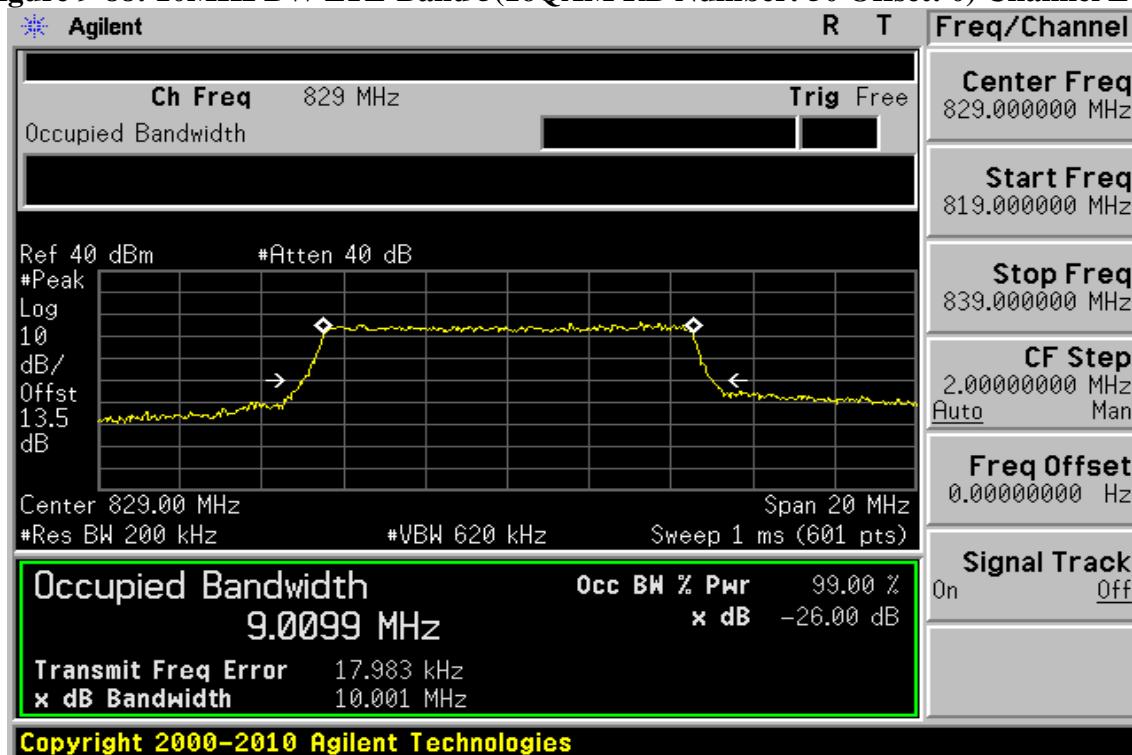


Figure 9-88: 10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 9-89: 10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Mid

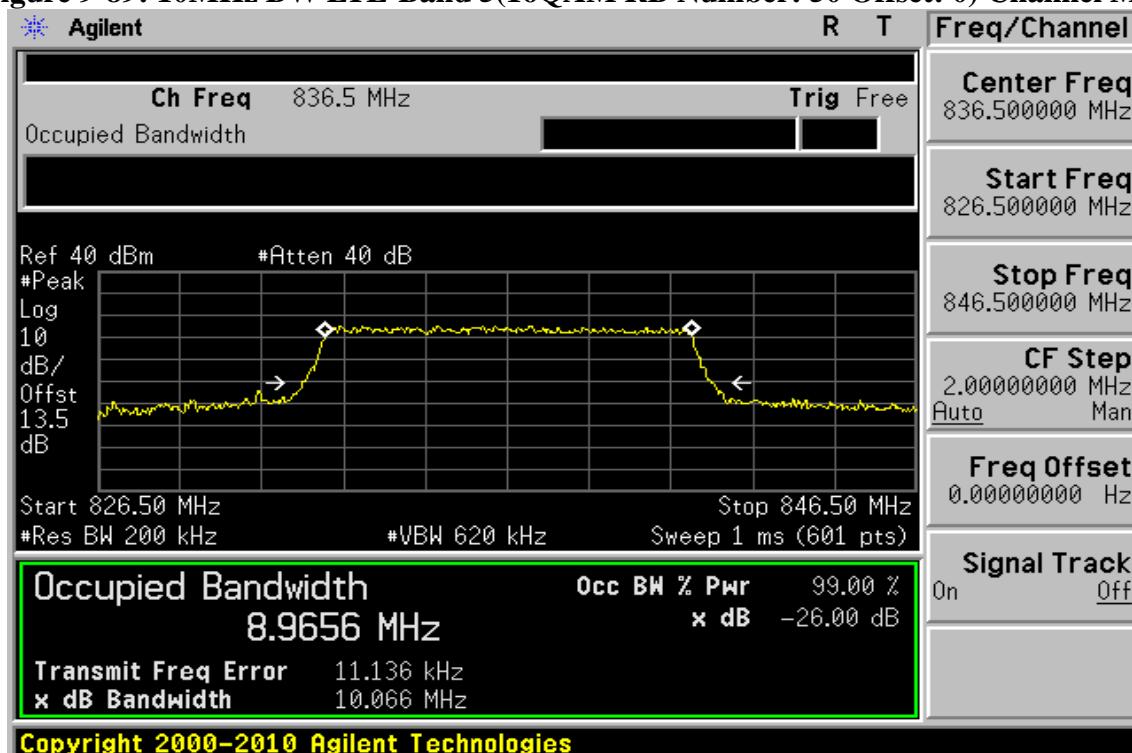
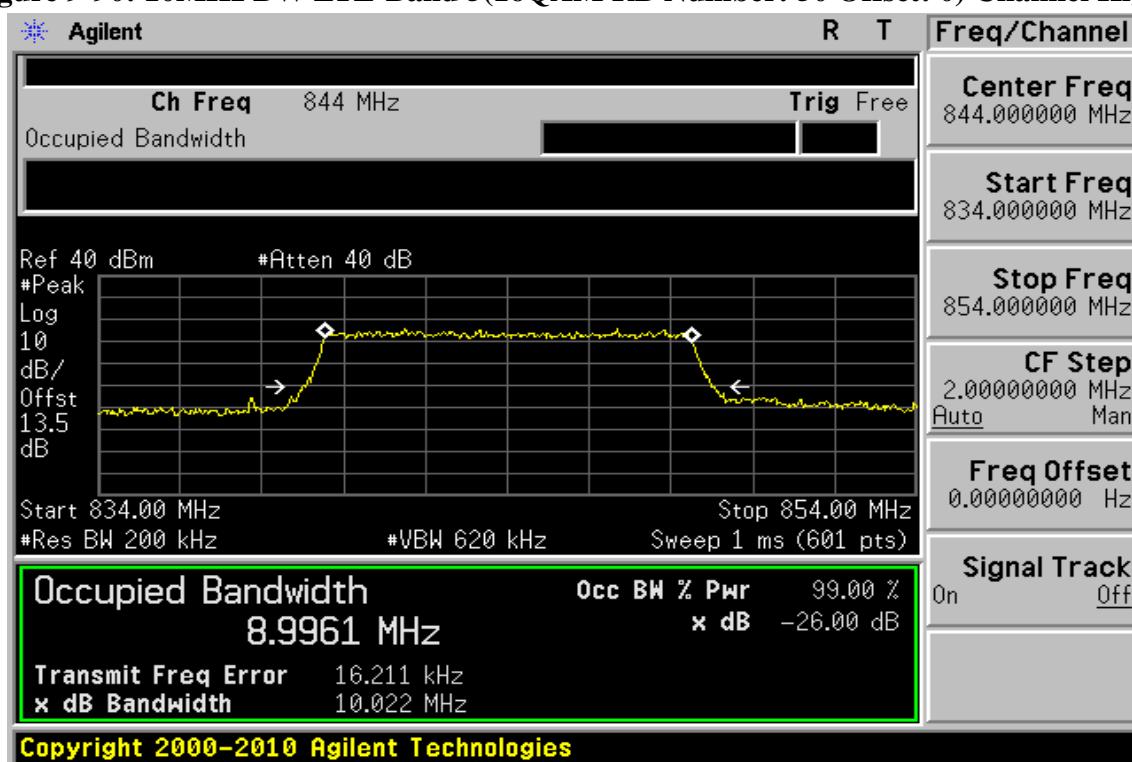


Figure 9-90: 10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 9-91: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low

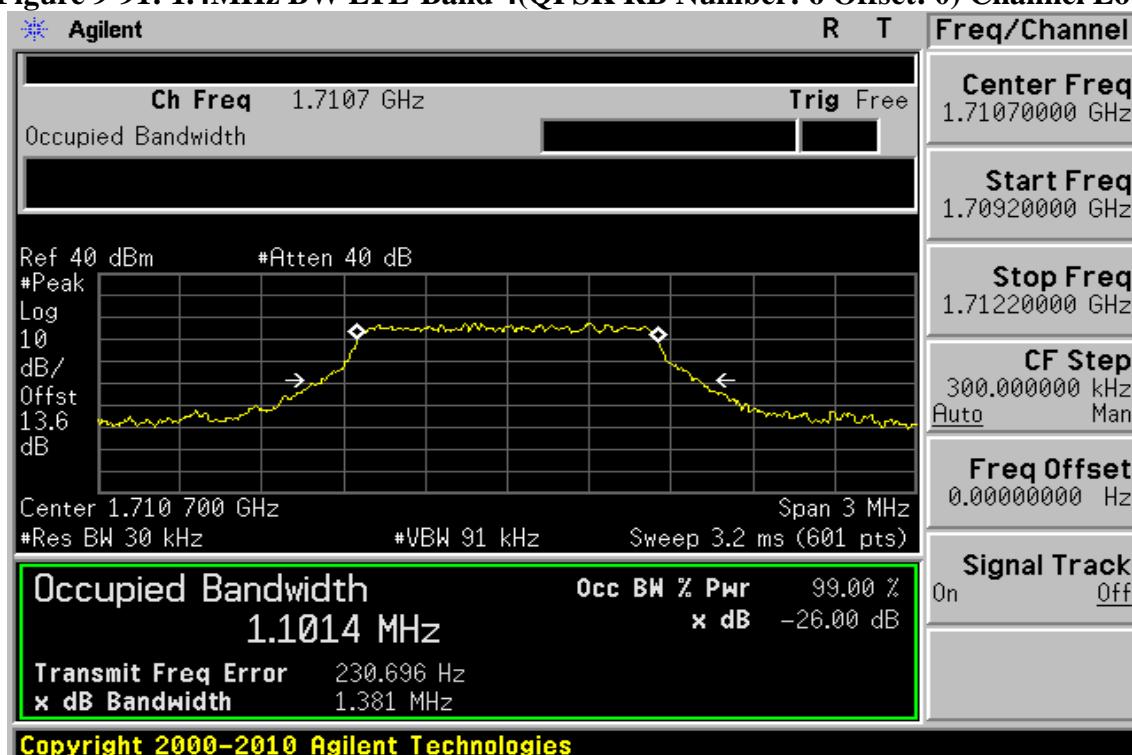
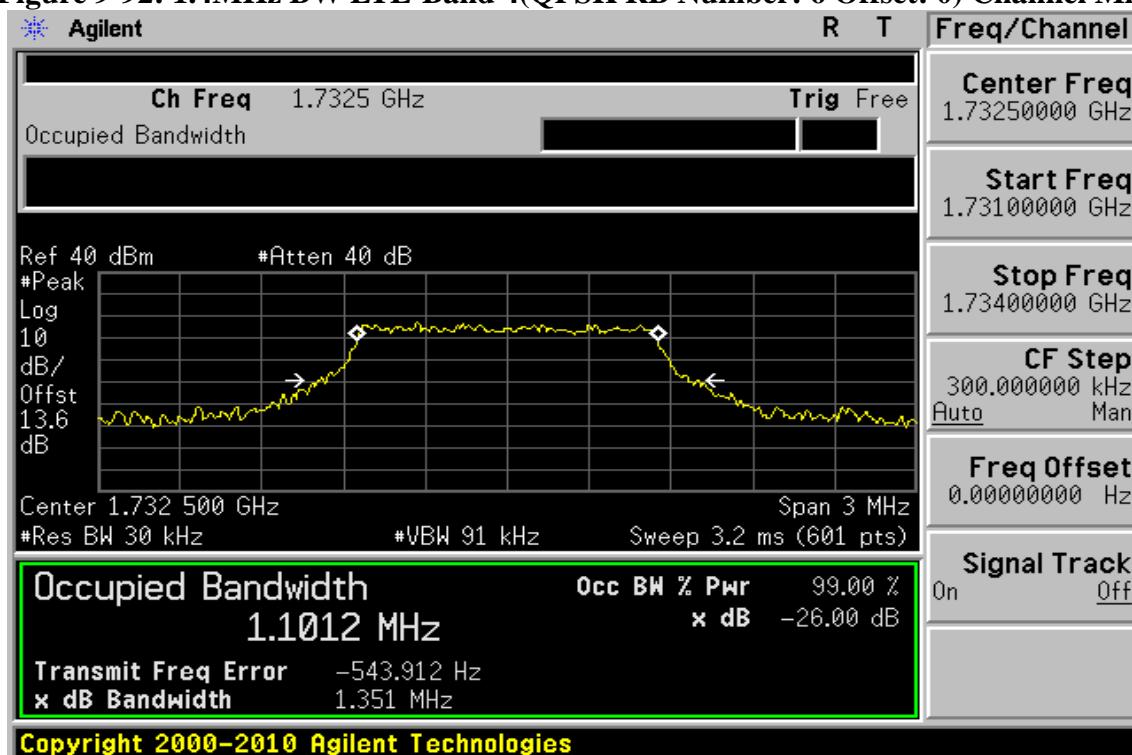


Figure 9-92: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 9-93: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High

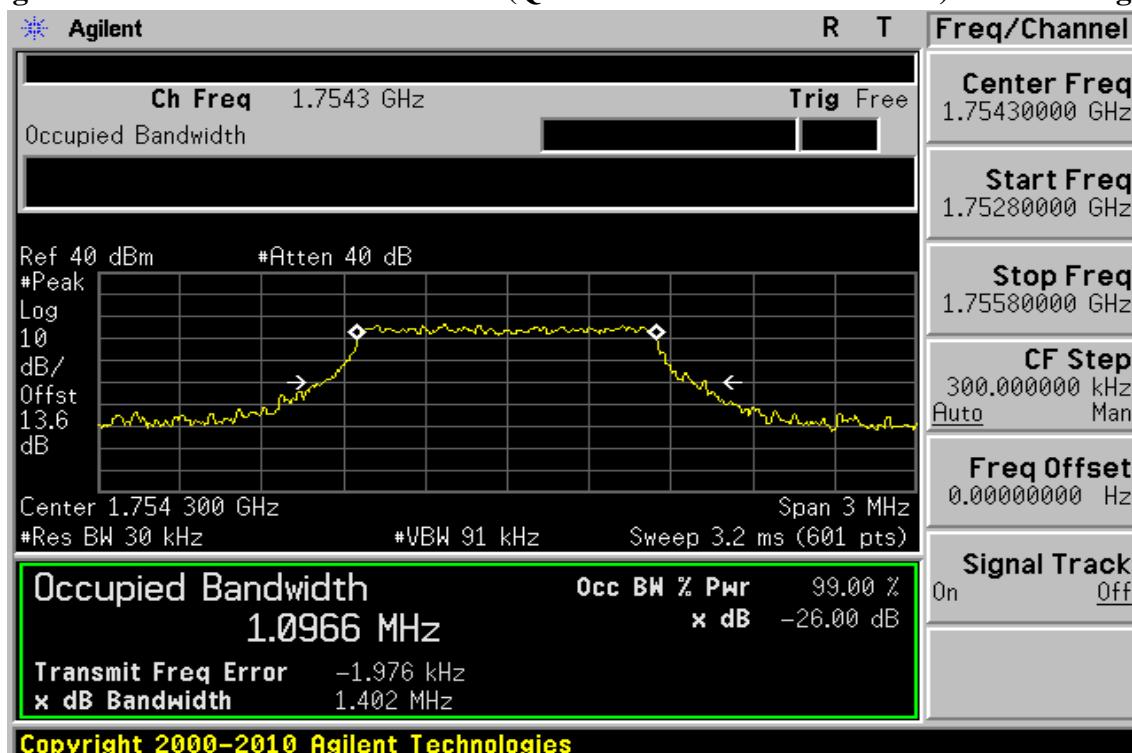
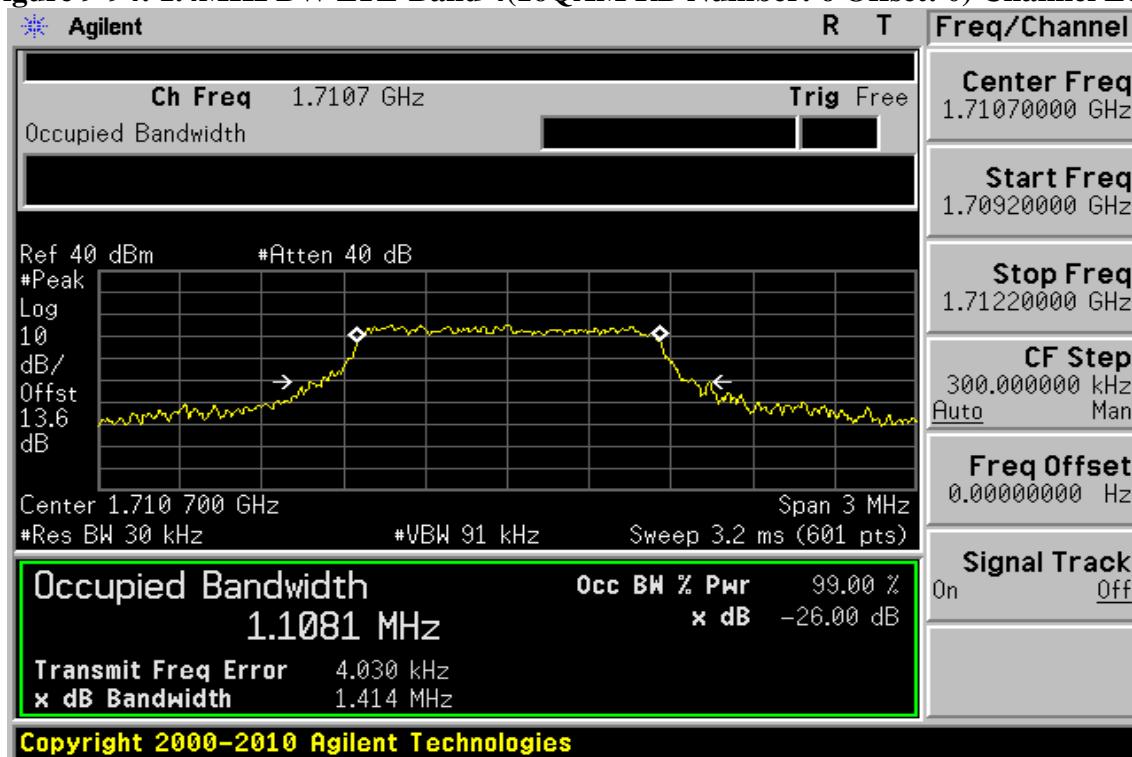


Figure 9-94: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 9-95: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid

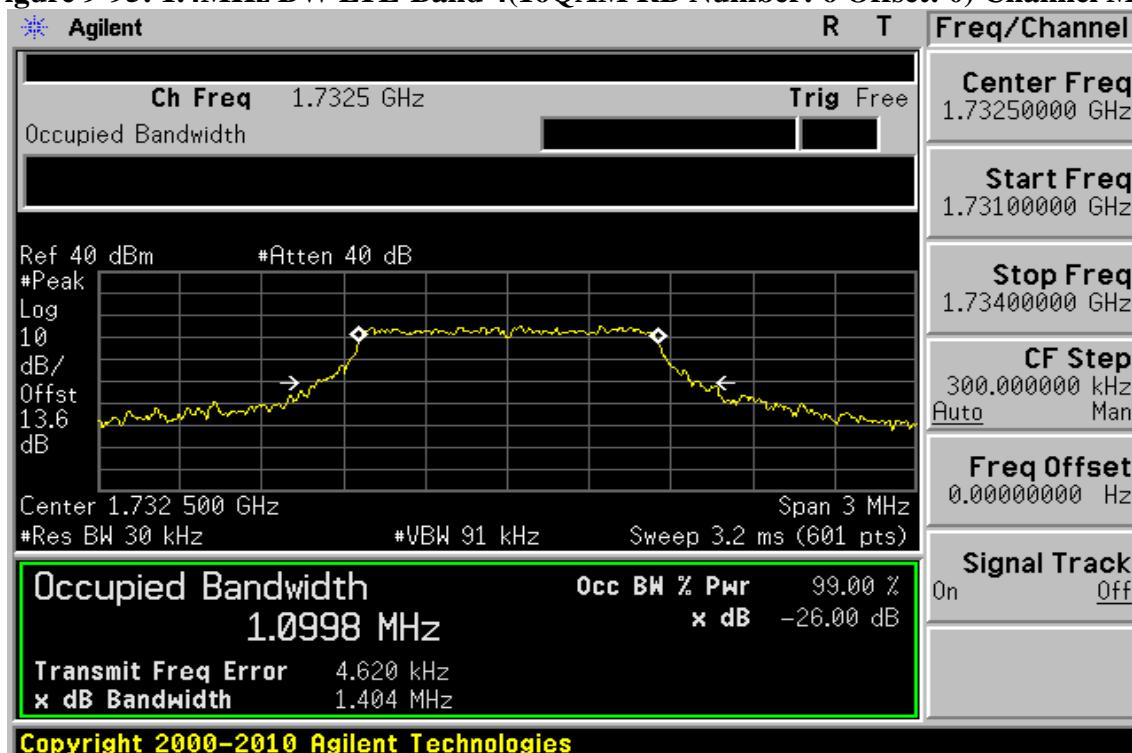
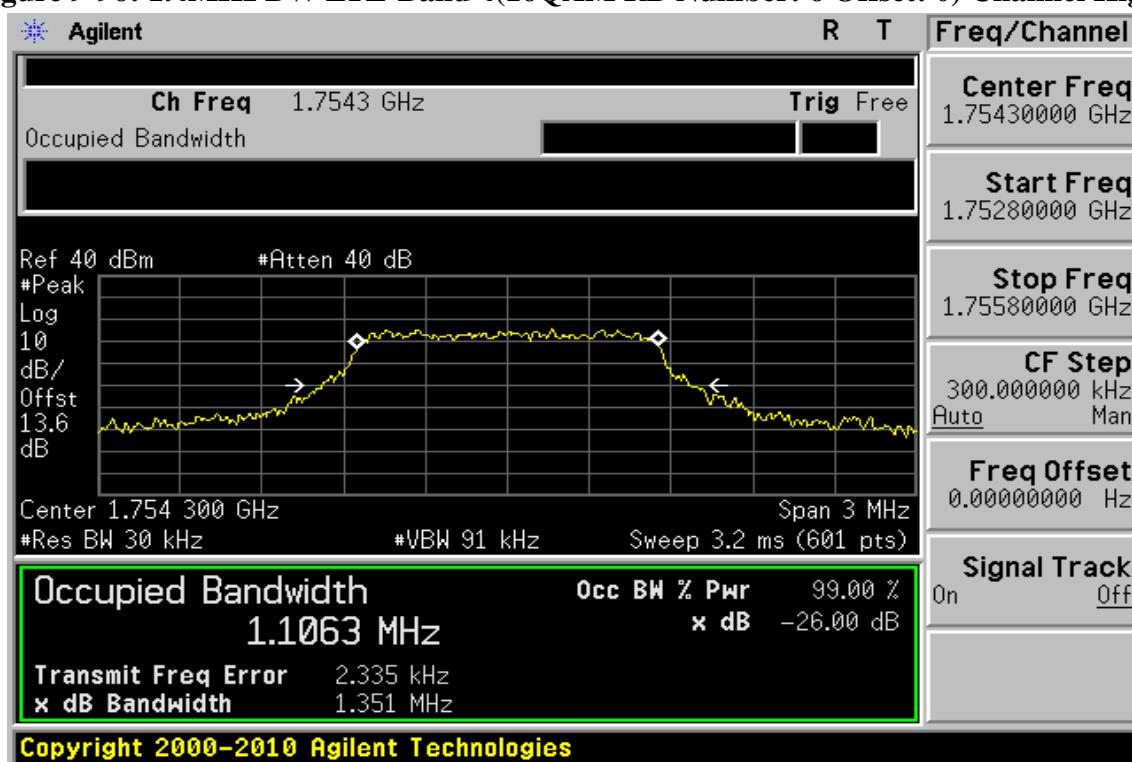


Figure 9-96: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 9-97: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low

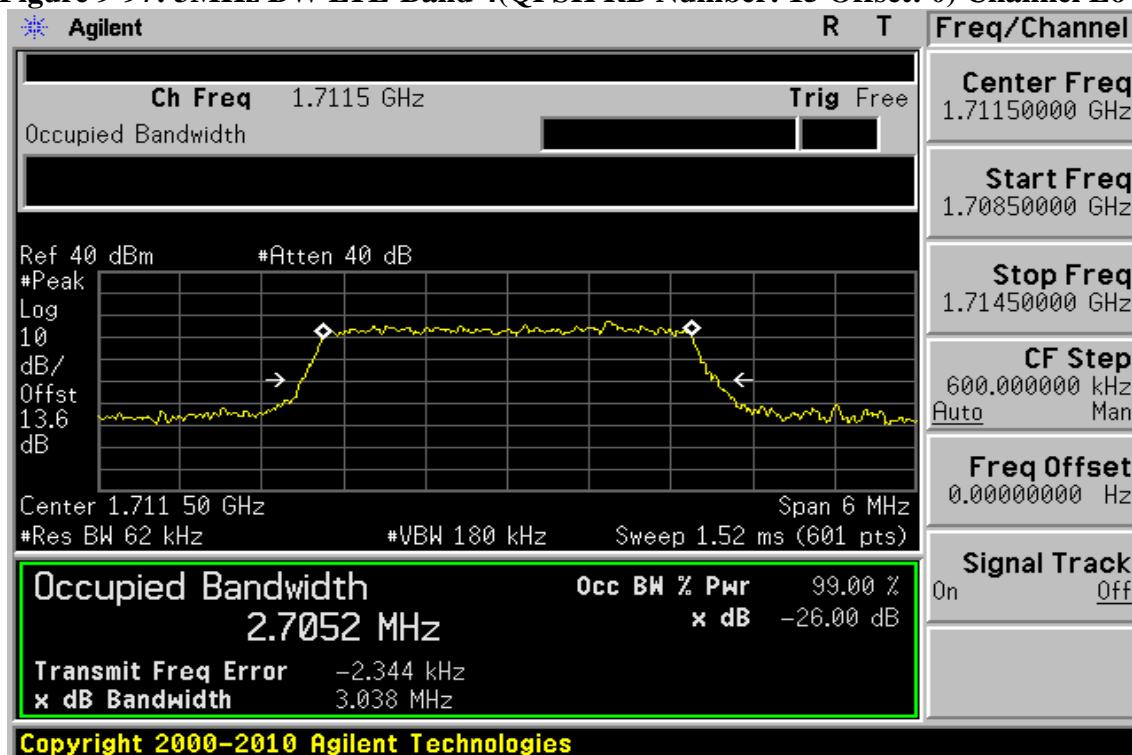
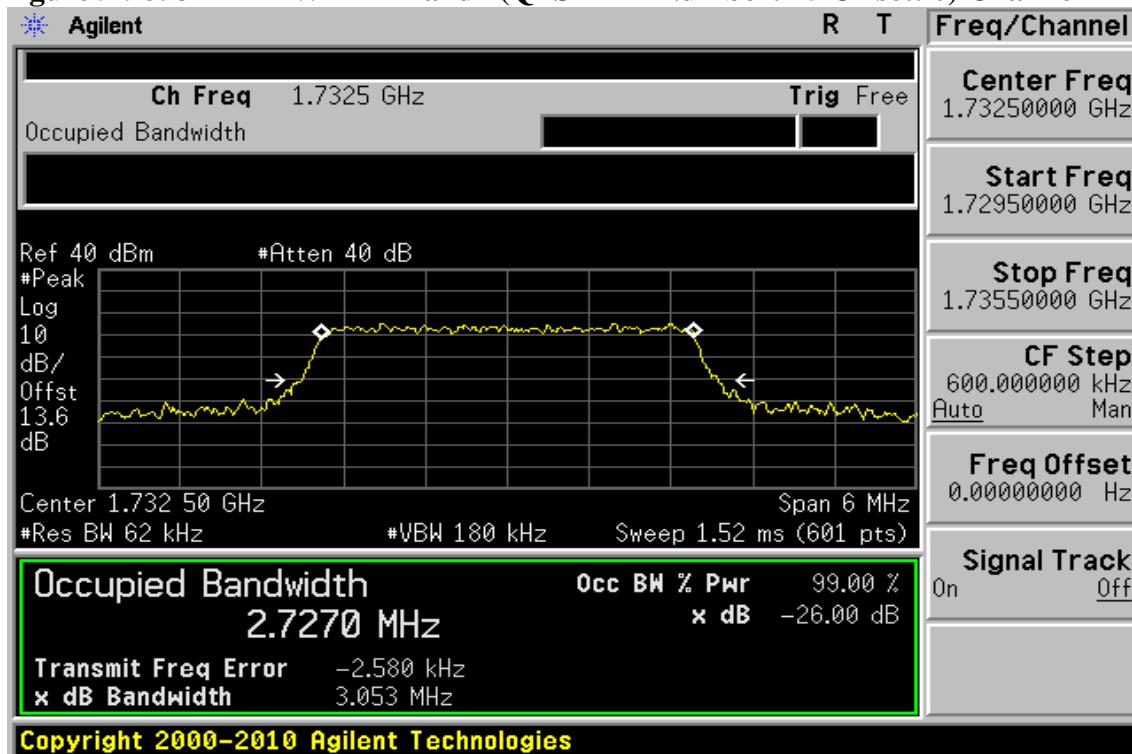


Figure 9-98: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Mid



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Figure 9-99: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High

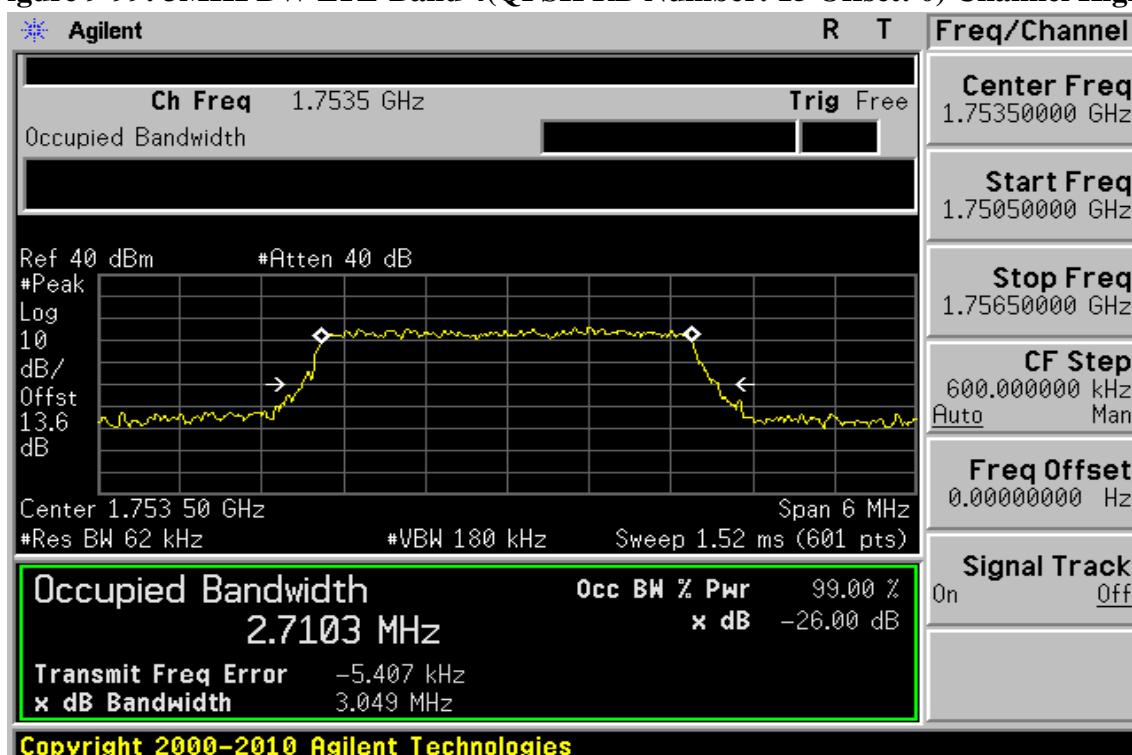
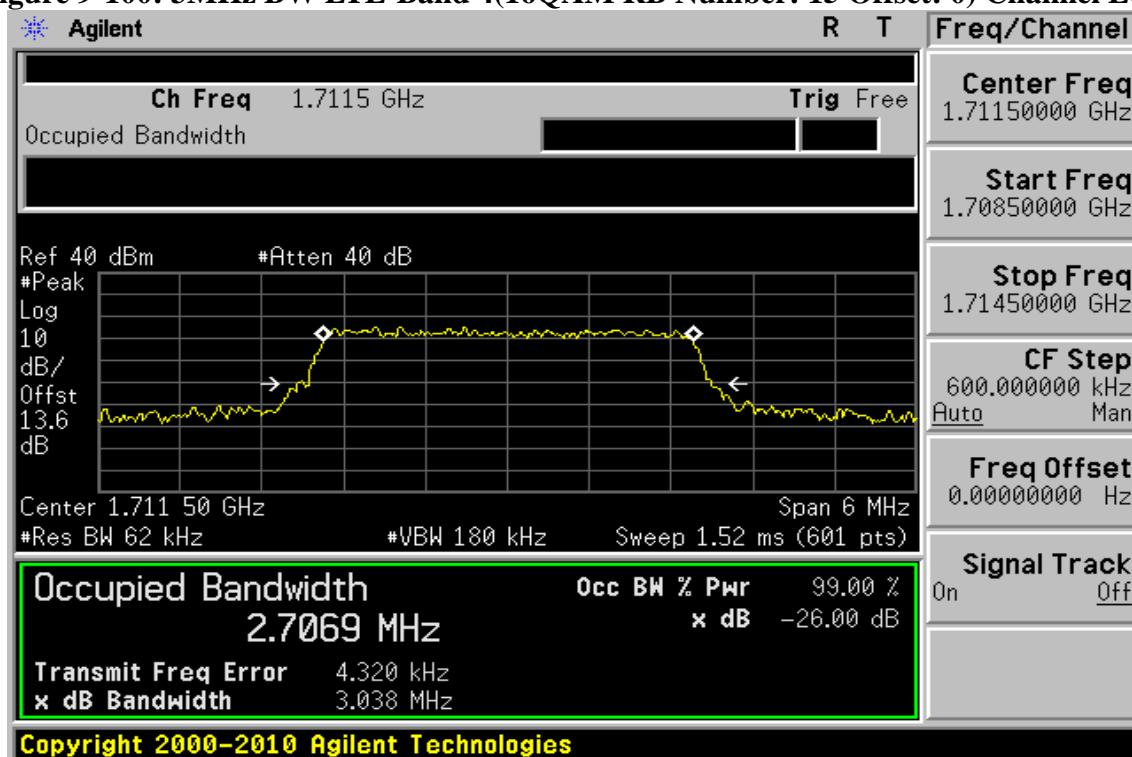


Figure 9-100: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Low



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Figure 9-101: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid

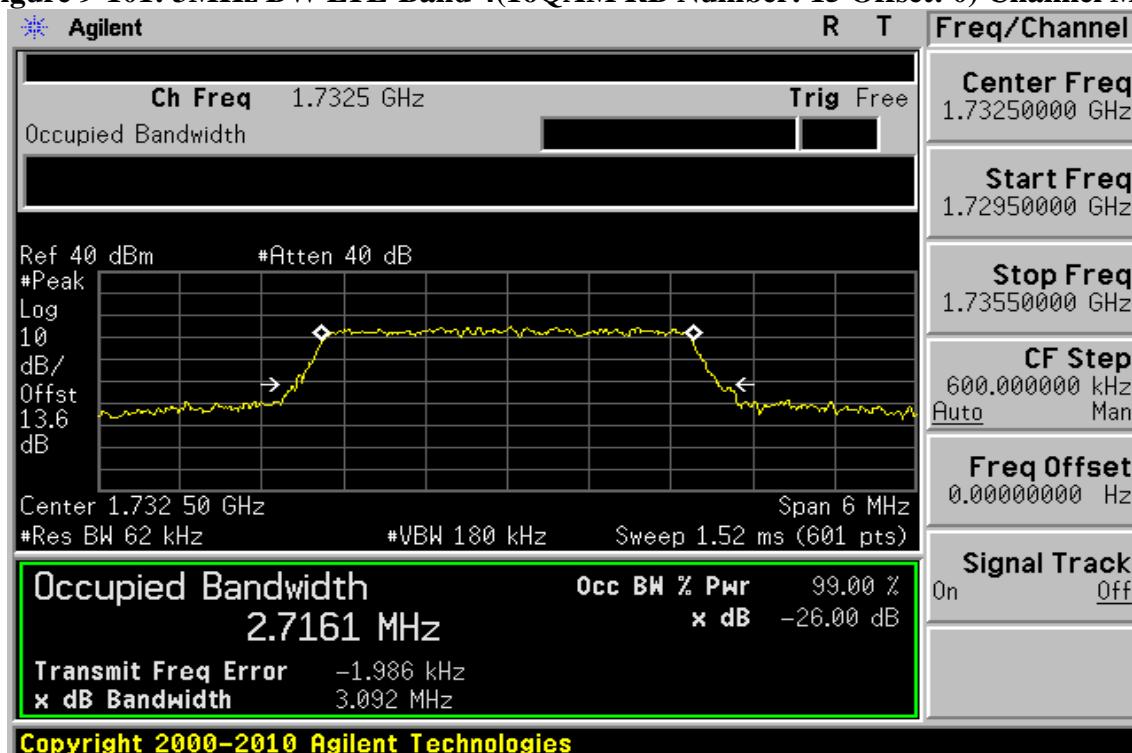
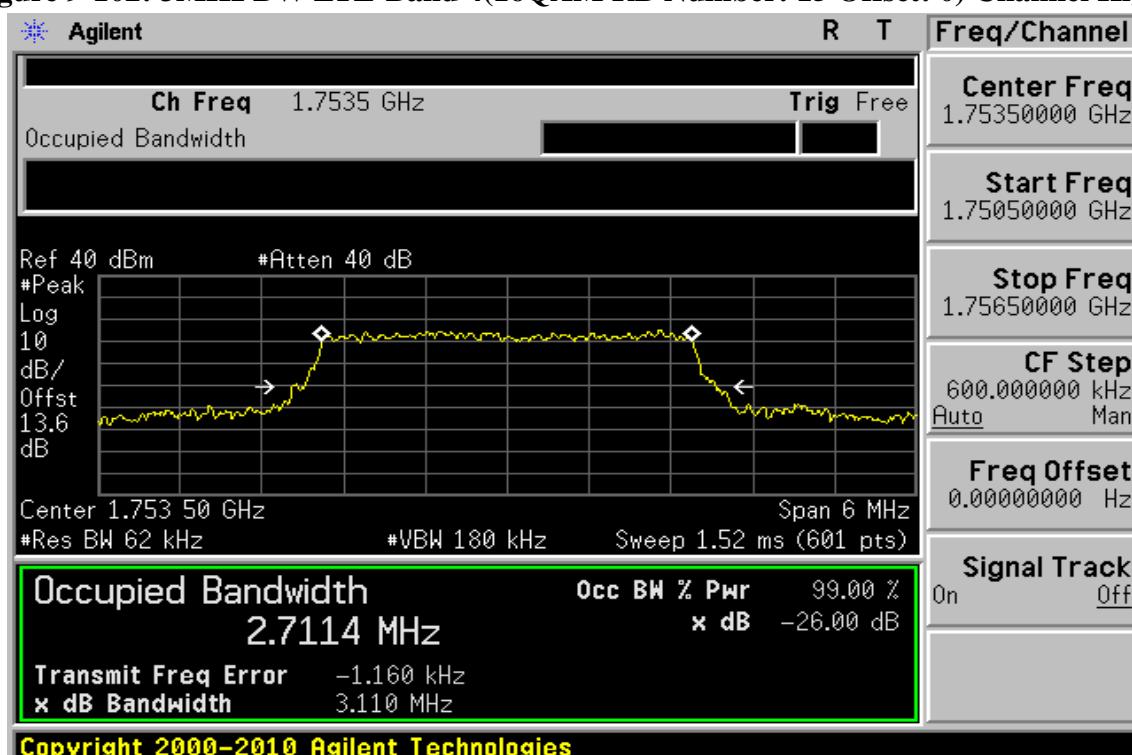


Figure 9-102: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel High



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Figure 9-103: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low

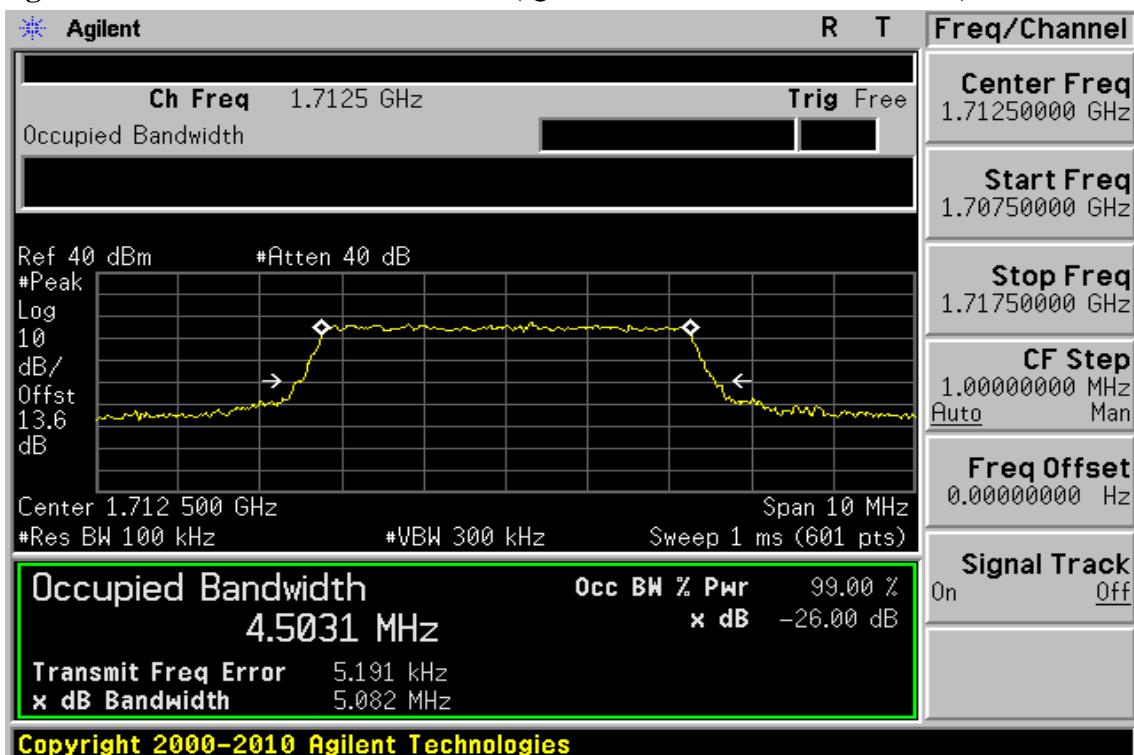
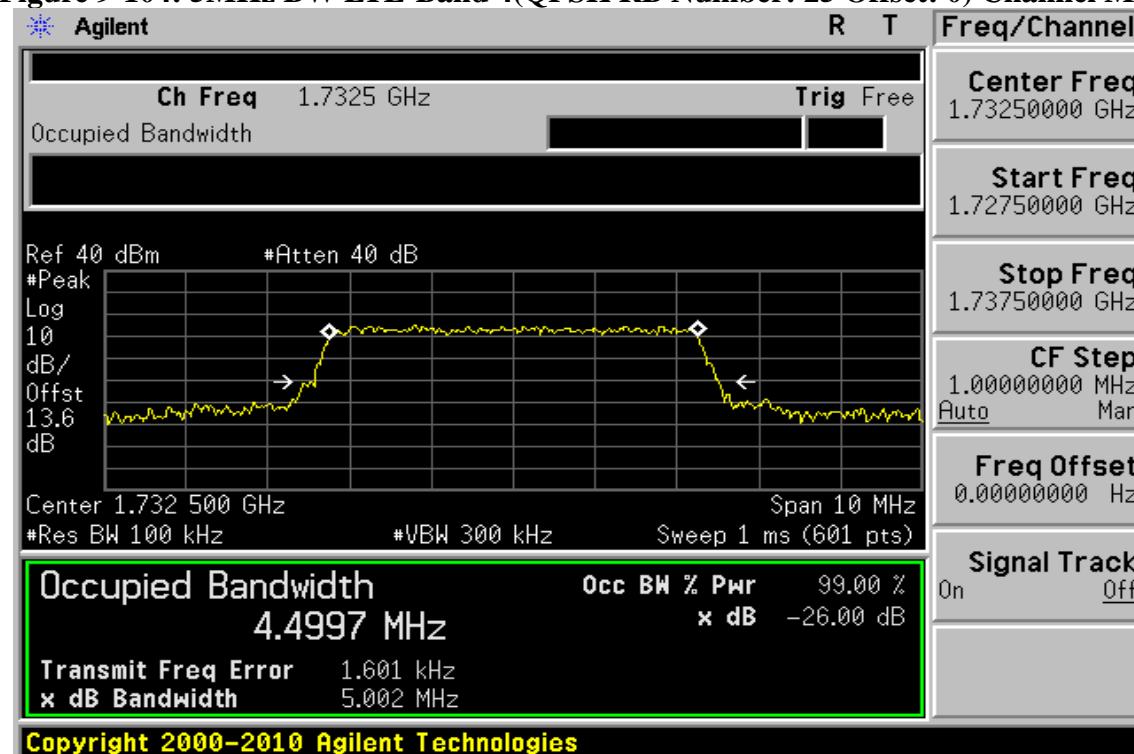


Figure 9-104: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 9-105: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High

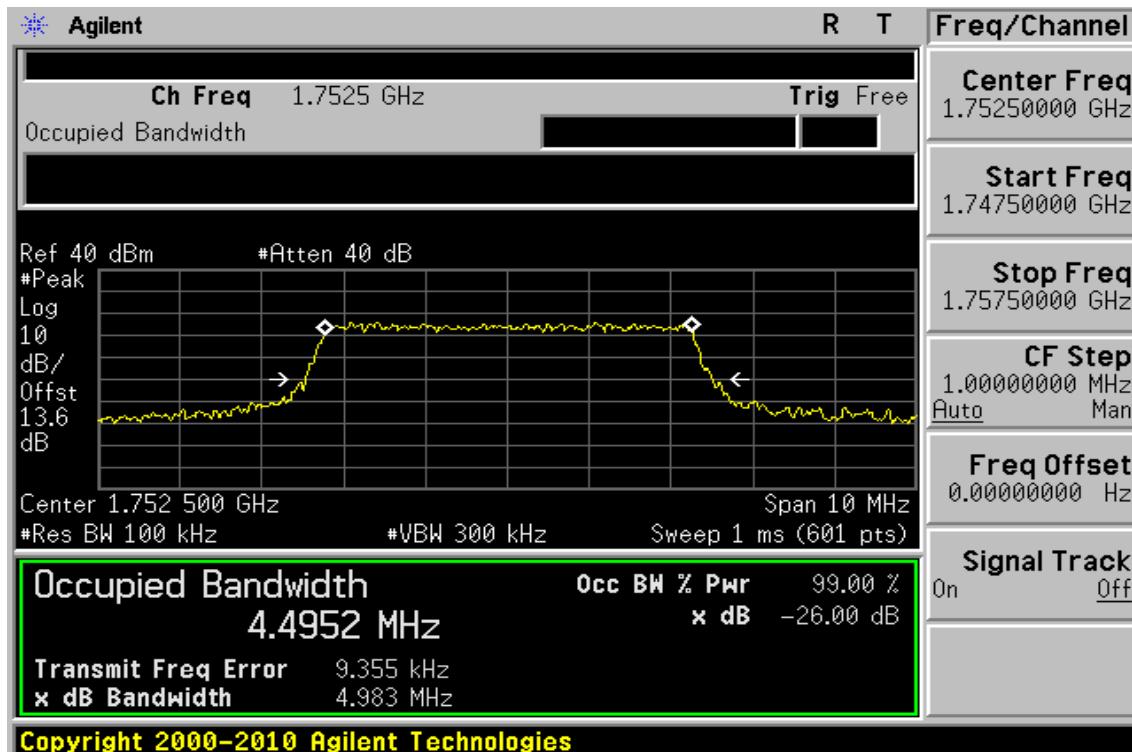
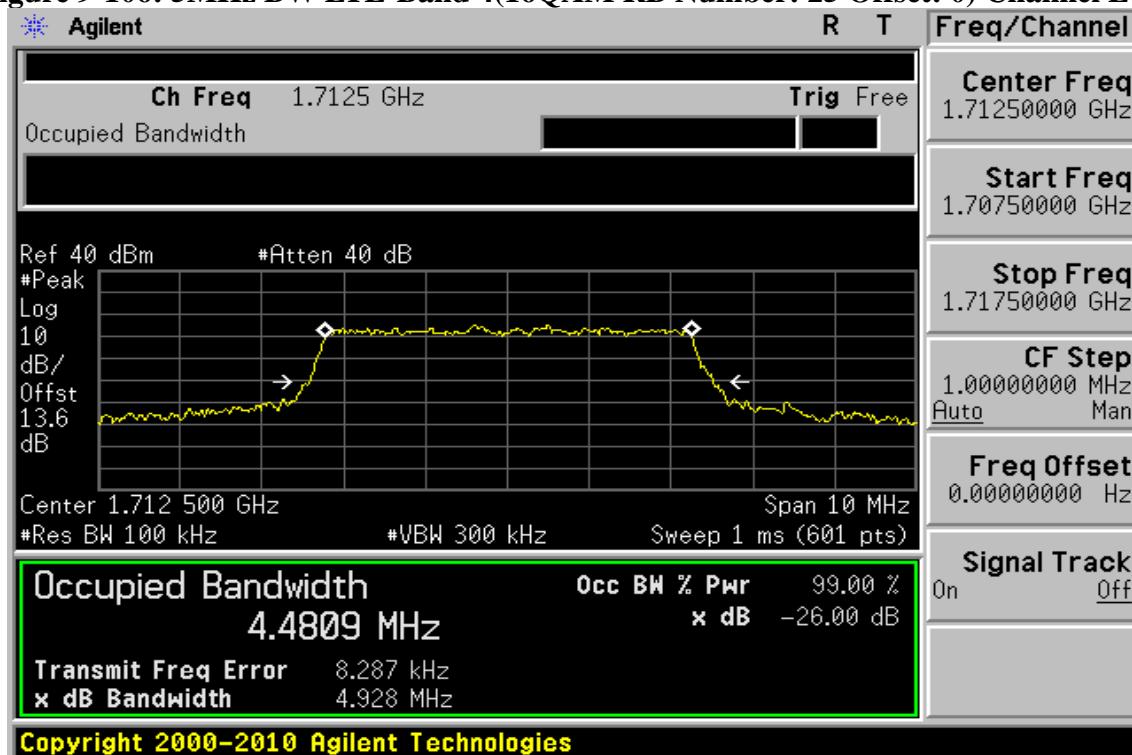


Figure 9-106: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 9-107: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid

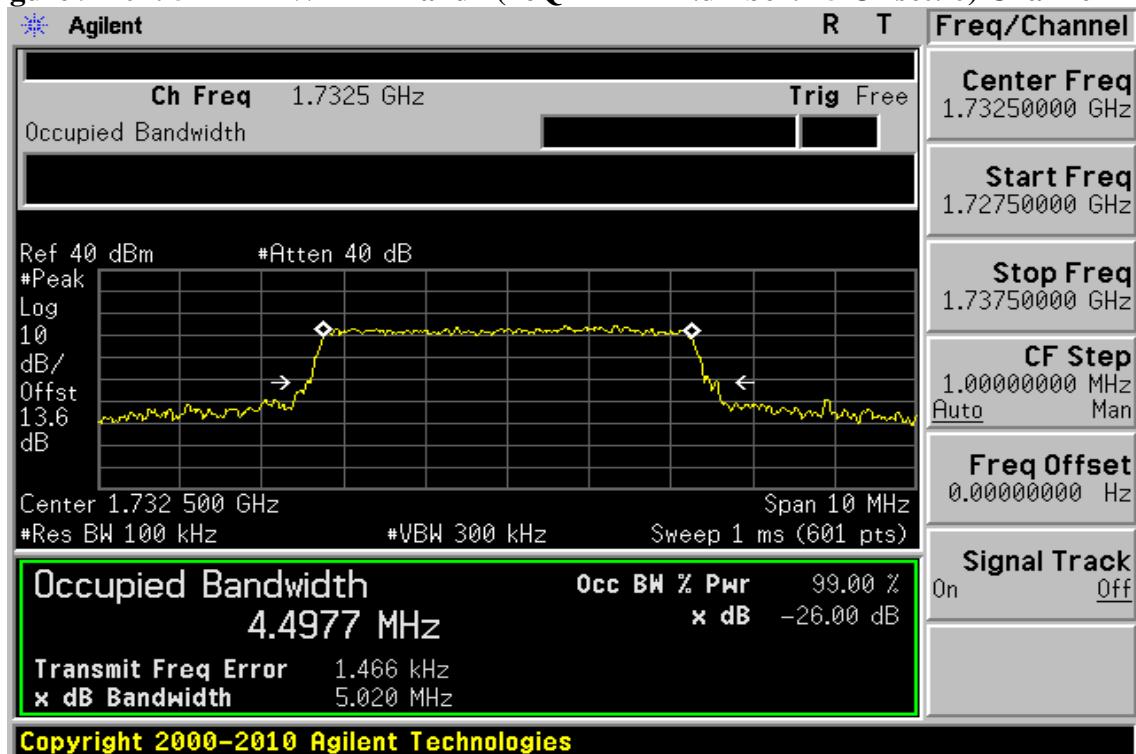
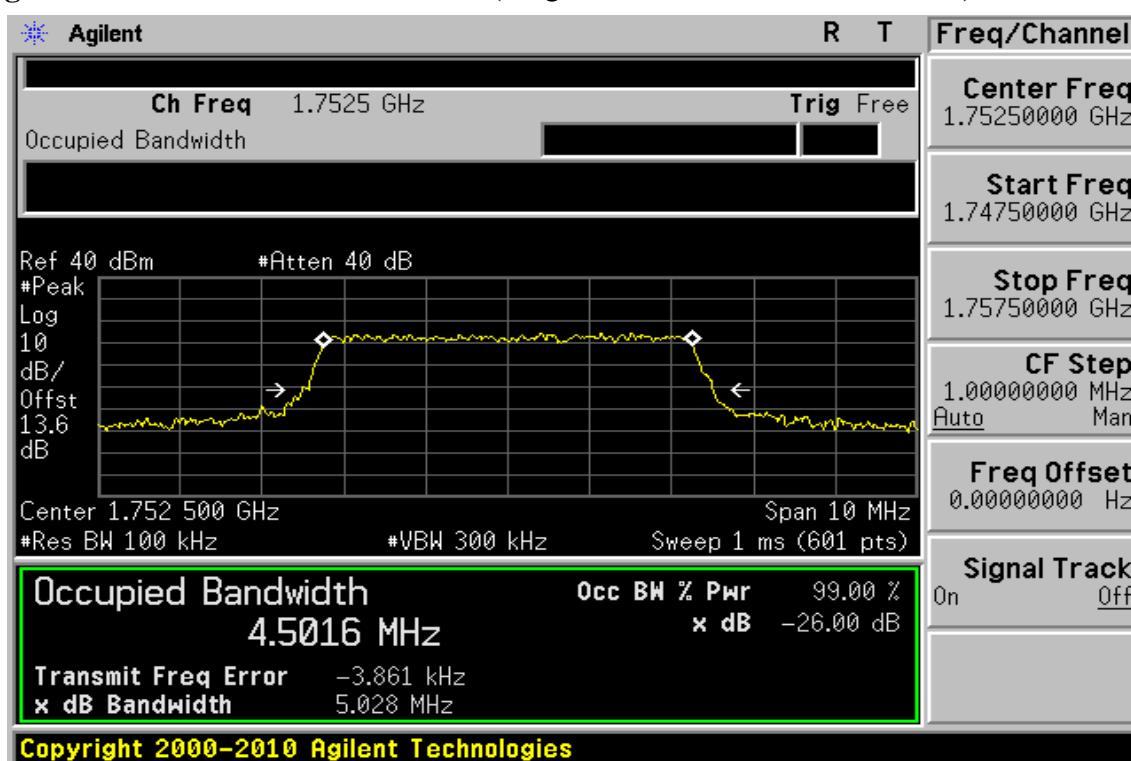


Figure 9-108: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 9-109: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low

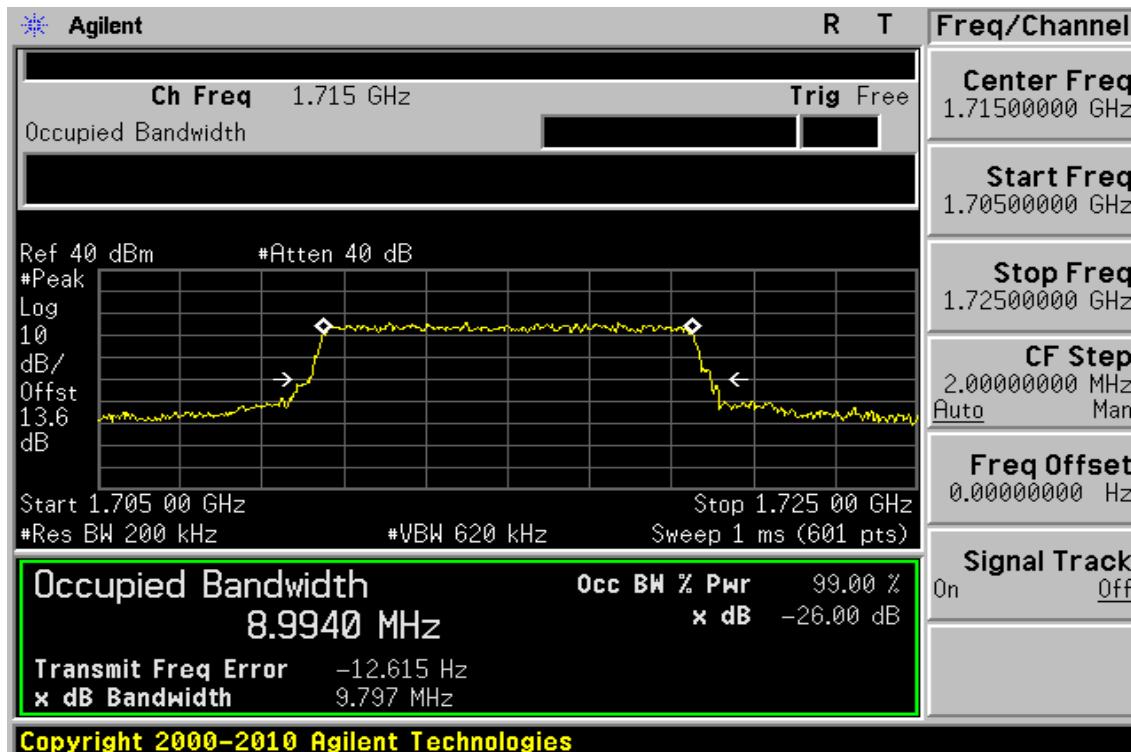
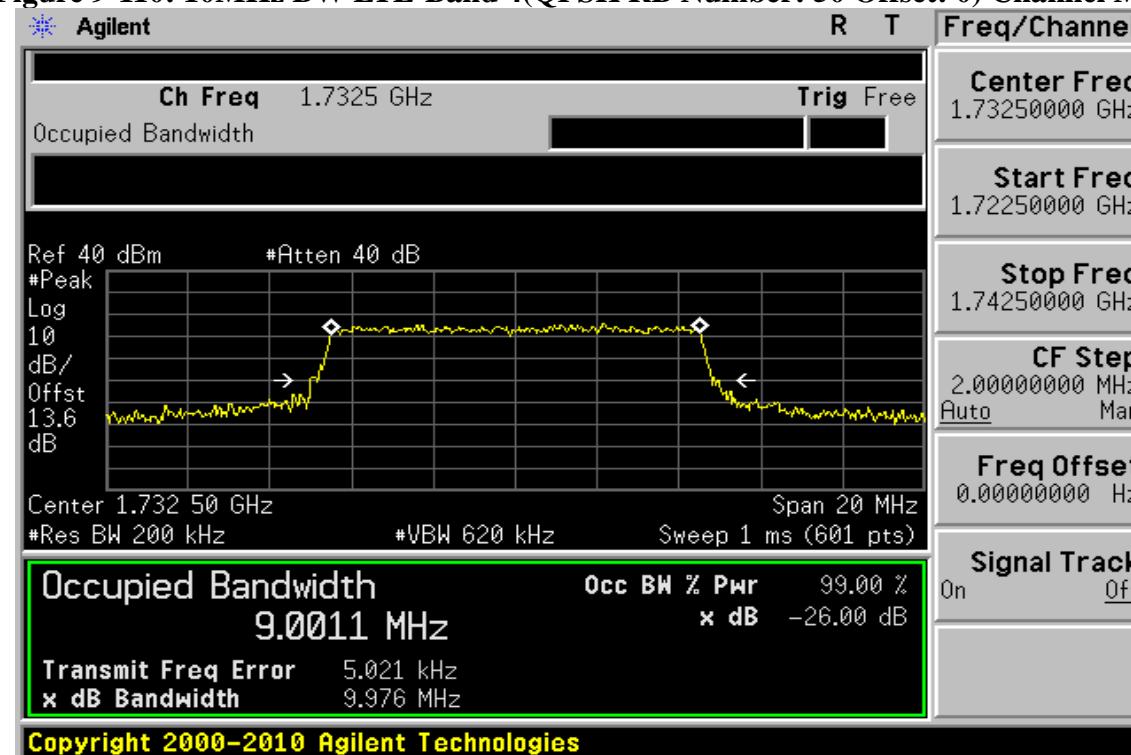


Figure 9-110: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 9-111: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High

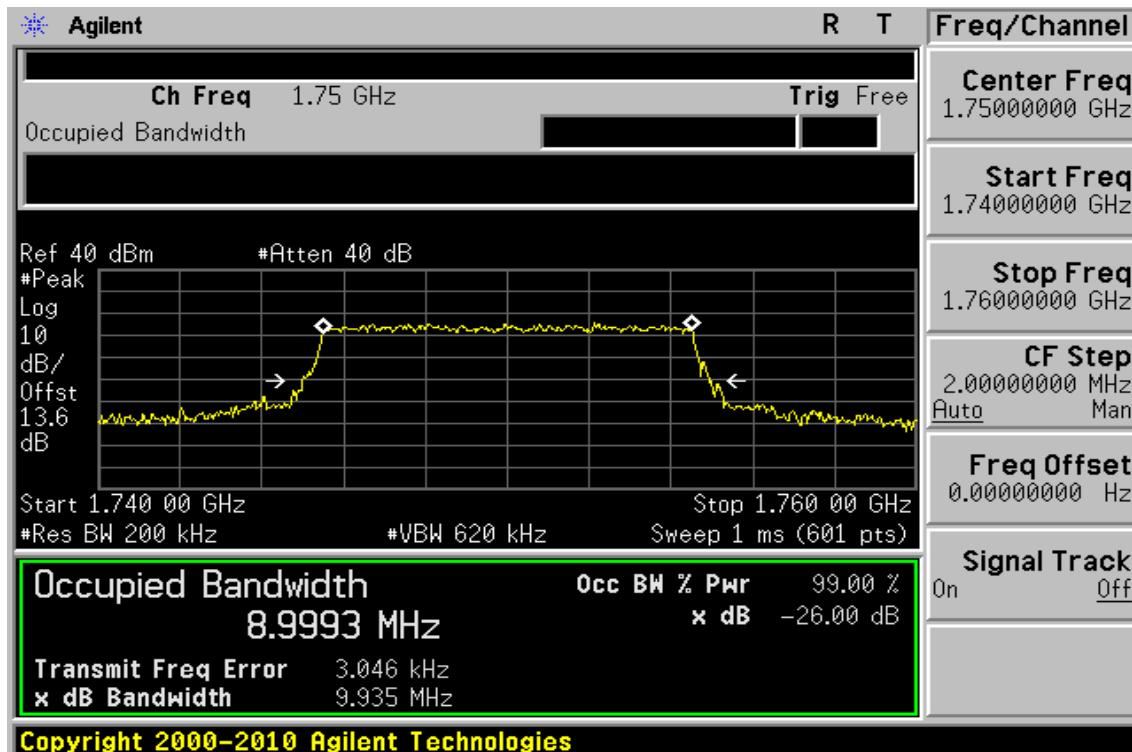
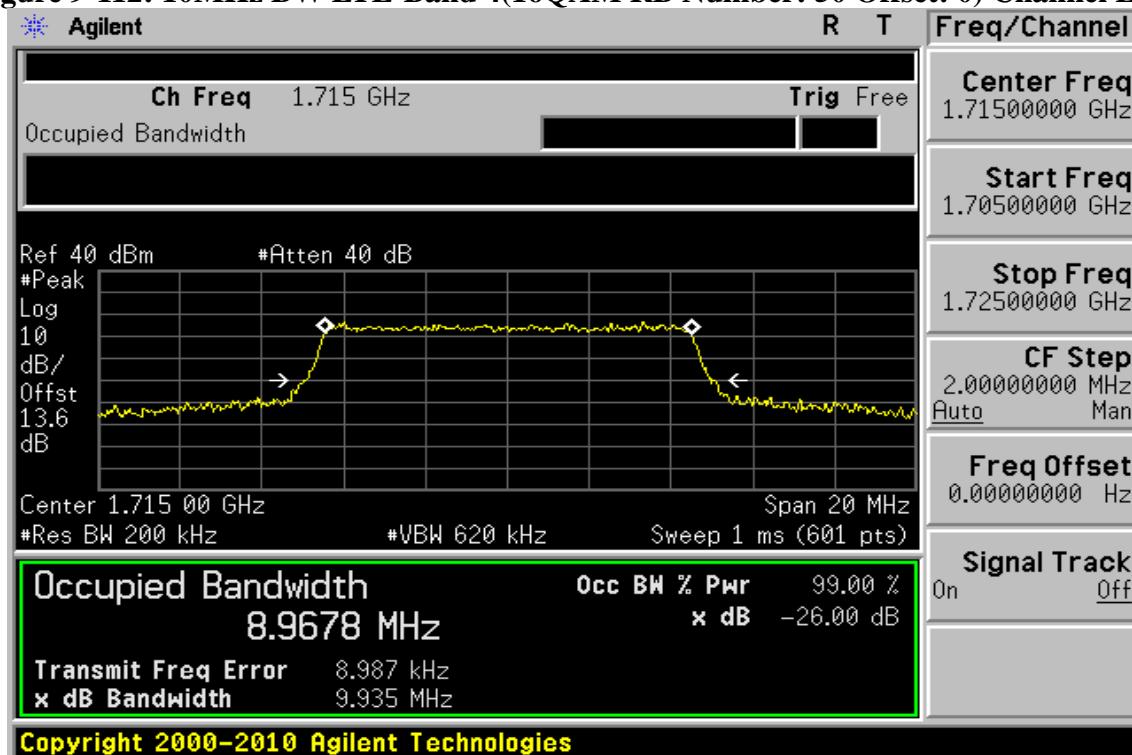


Figure 9-112: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 9-113: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid

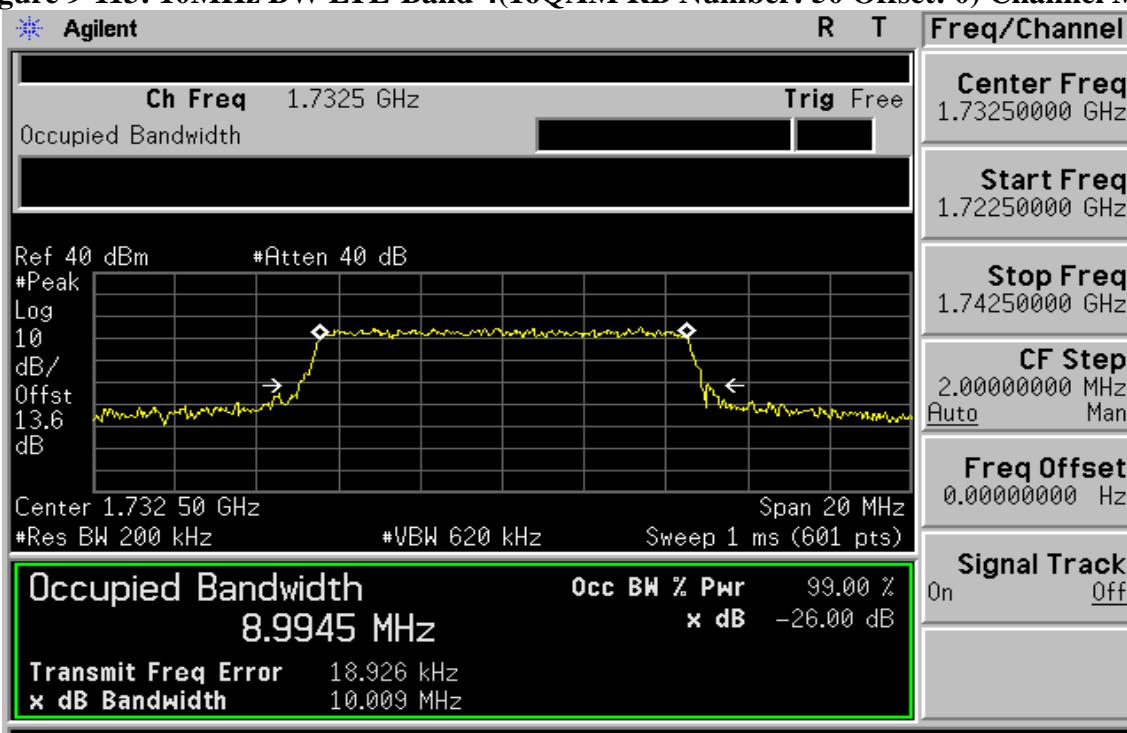
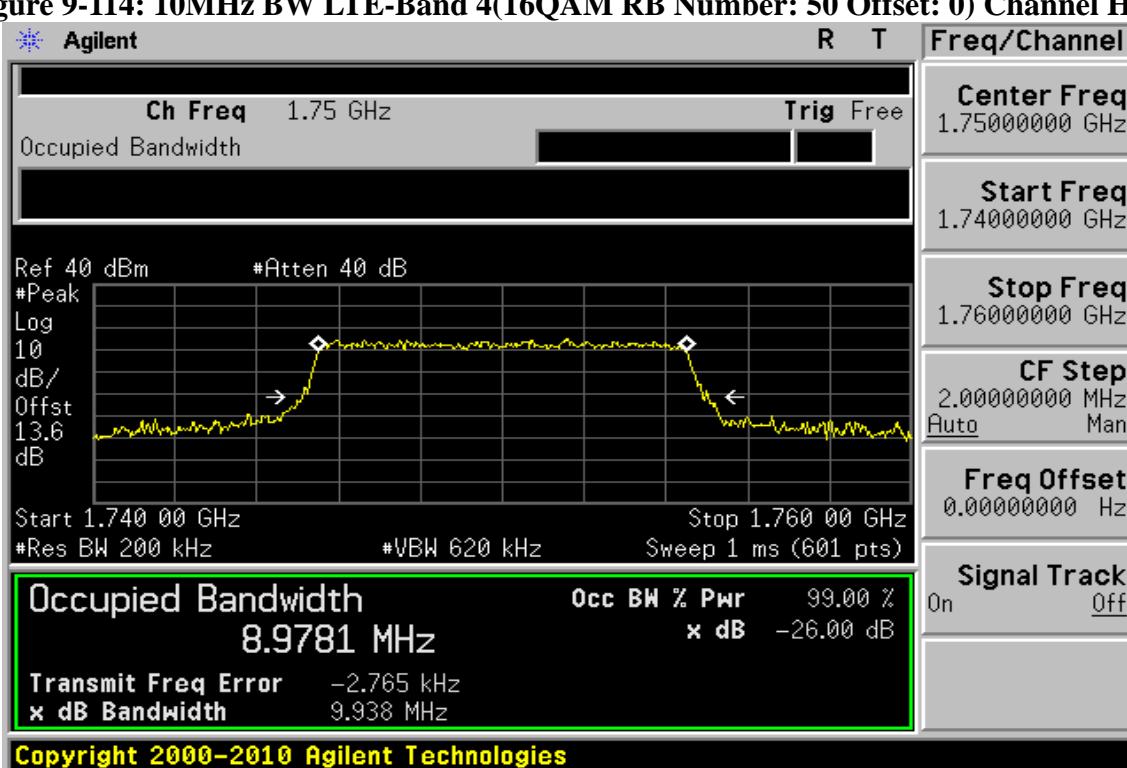


Figure 9-114: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 9-115: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Low

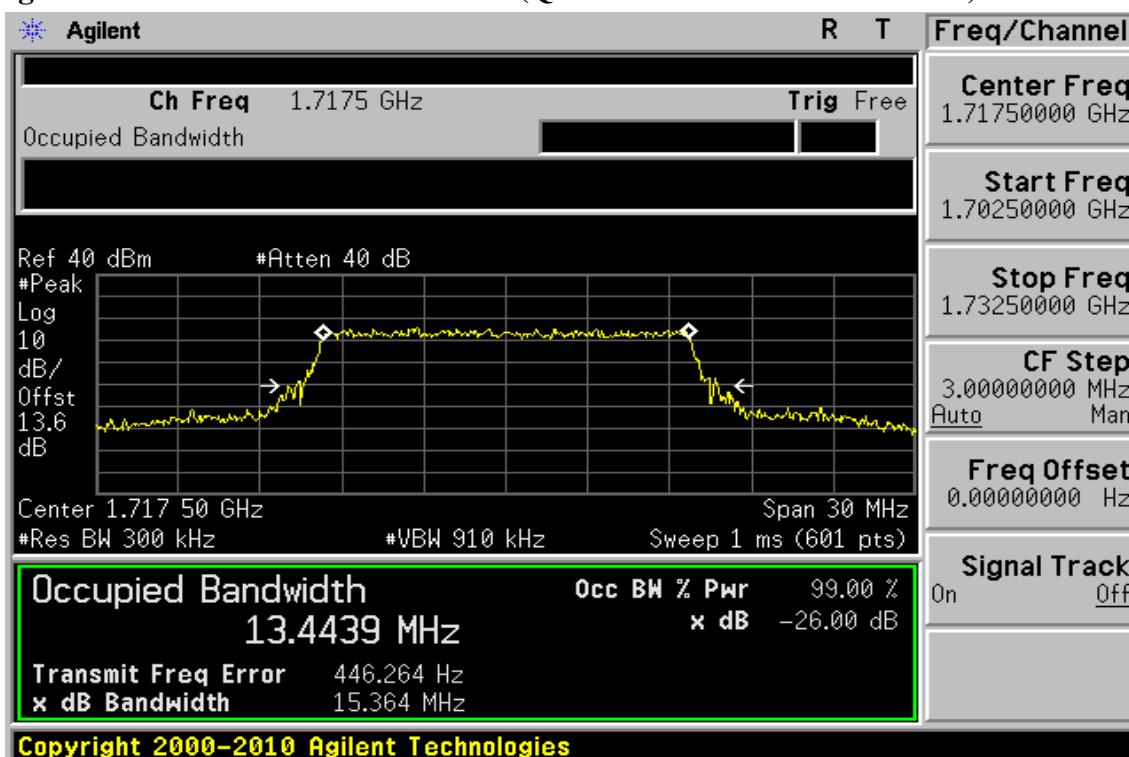
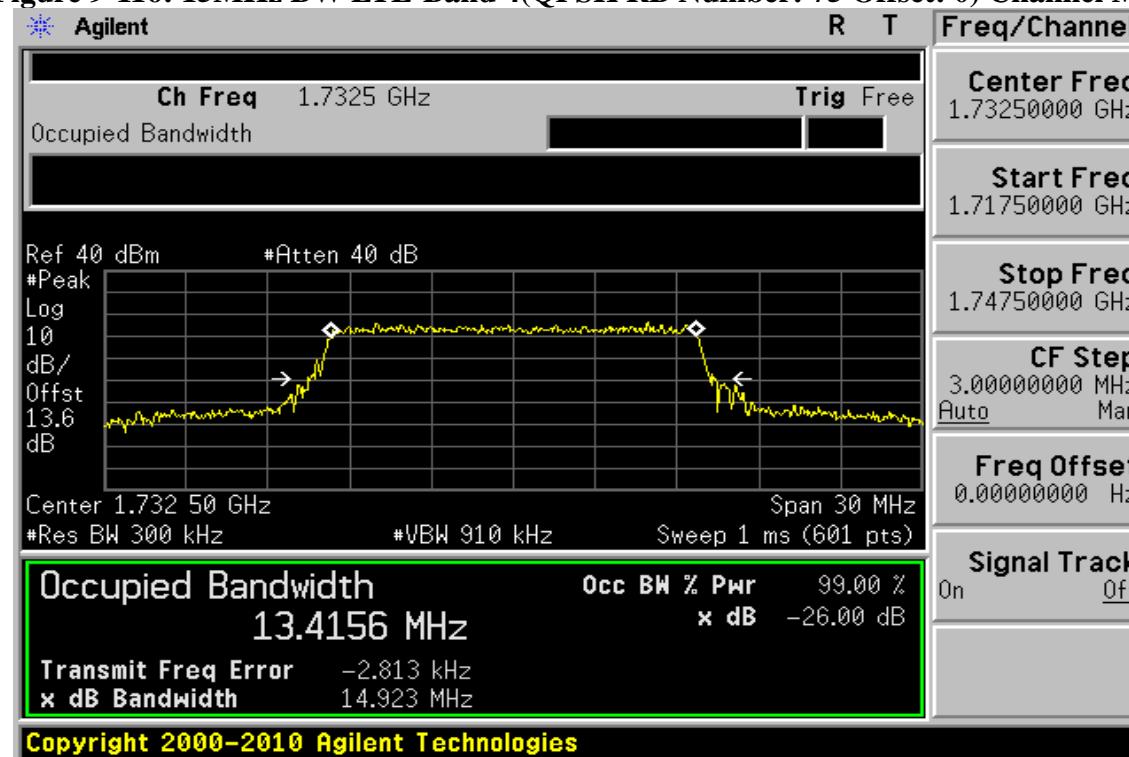


Figure 9-116: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 9-117: 15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel High

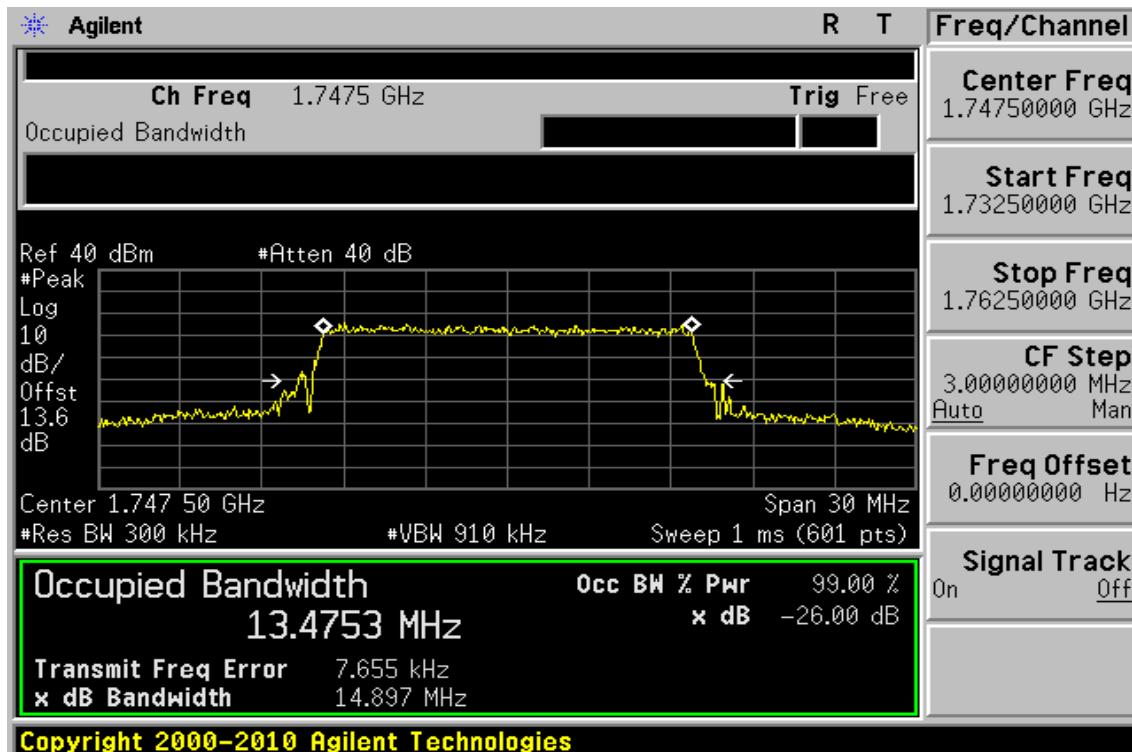
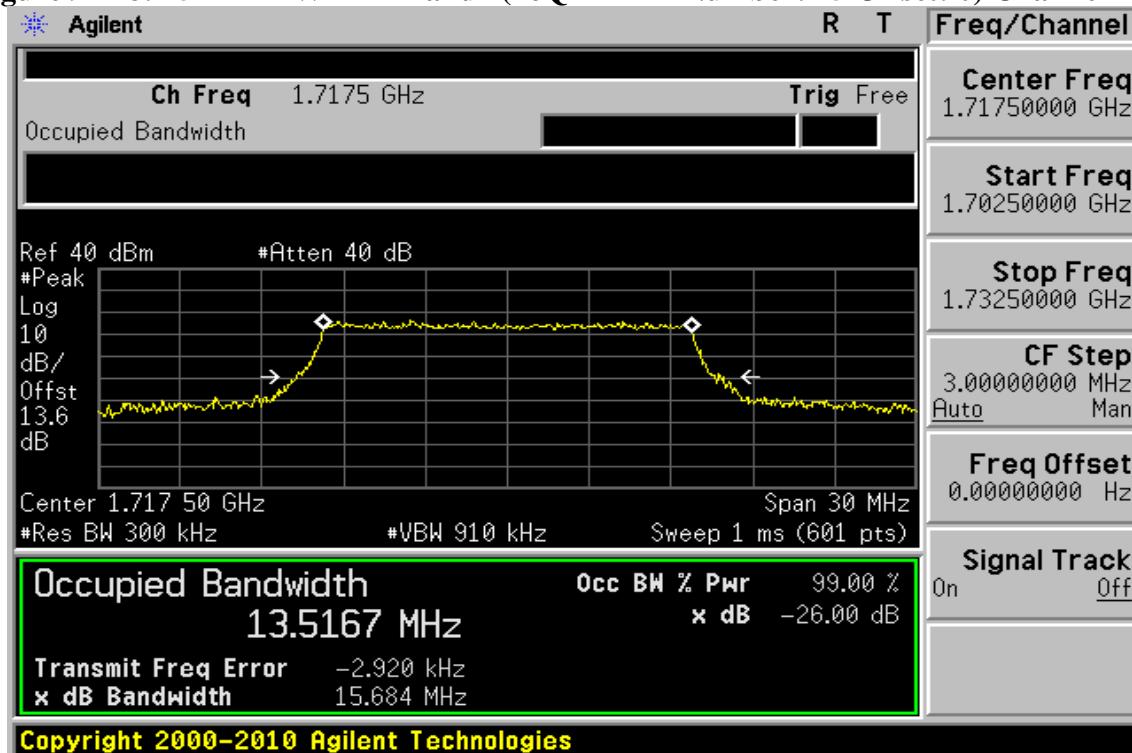


Figure 9-118: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 9-119: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Mid

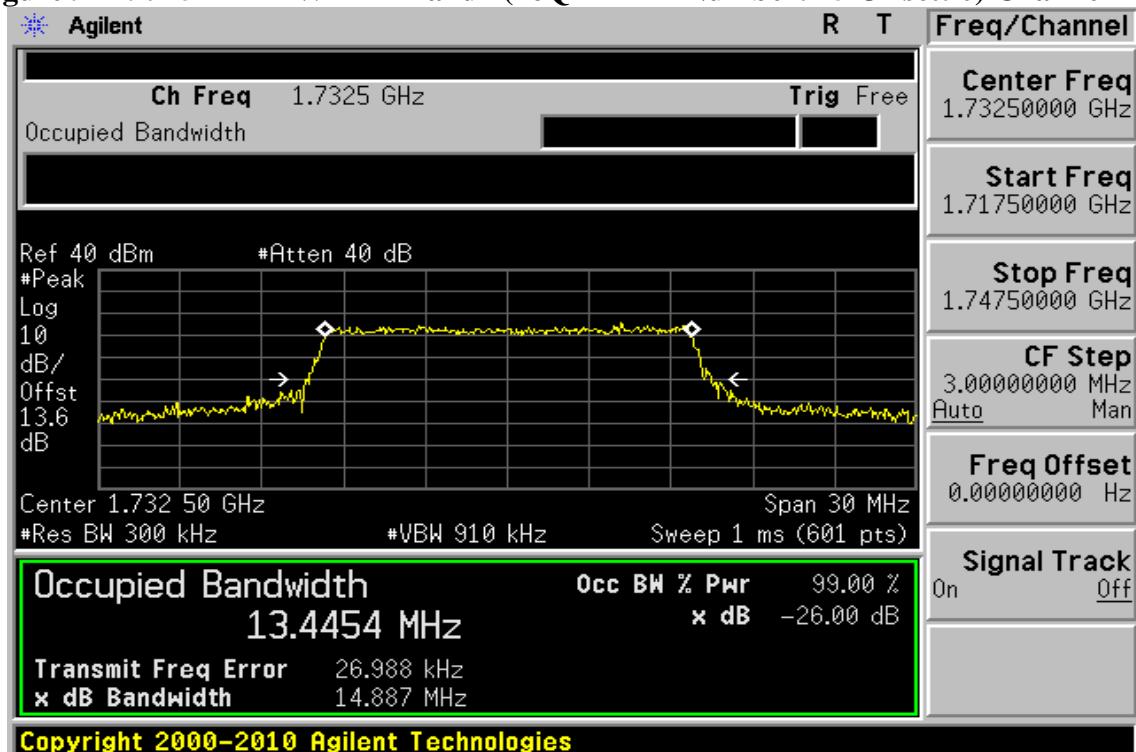
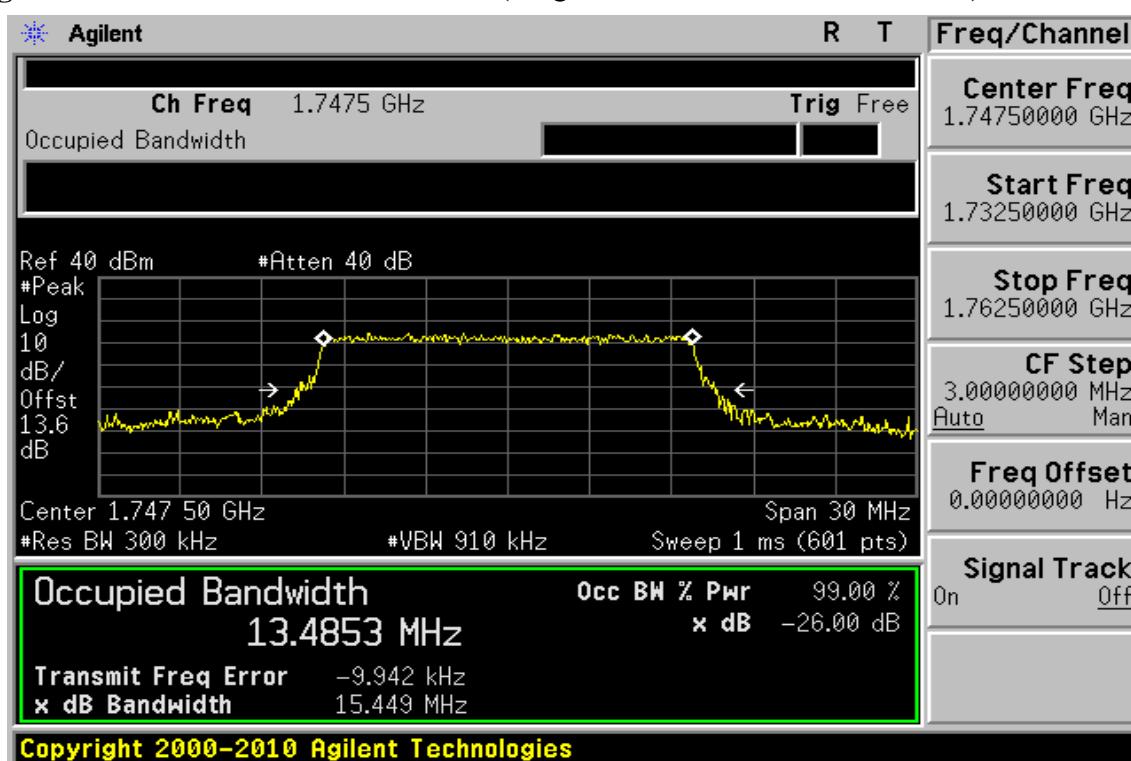


Figure 9-120: 15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel High



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Figure 9-121: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Low

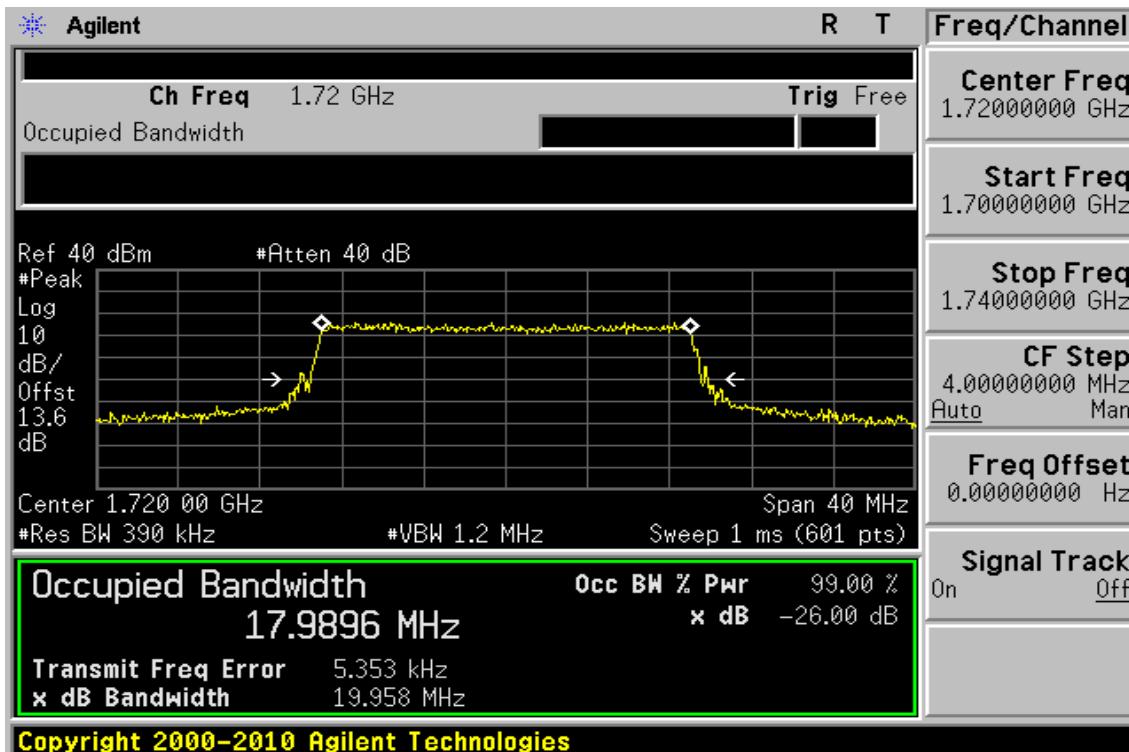
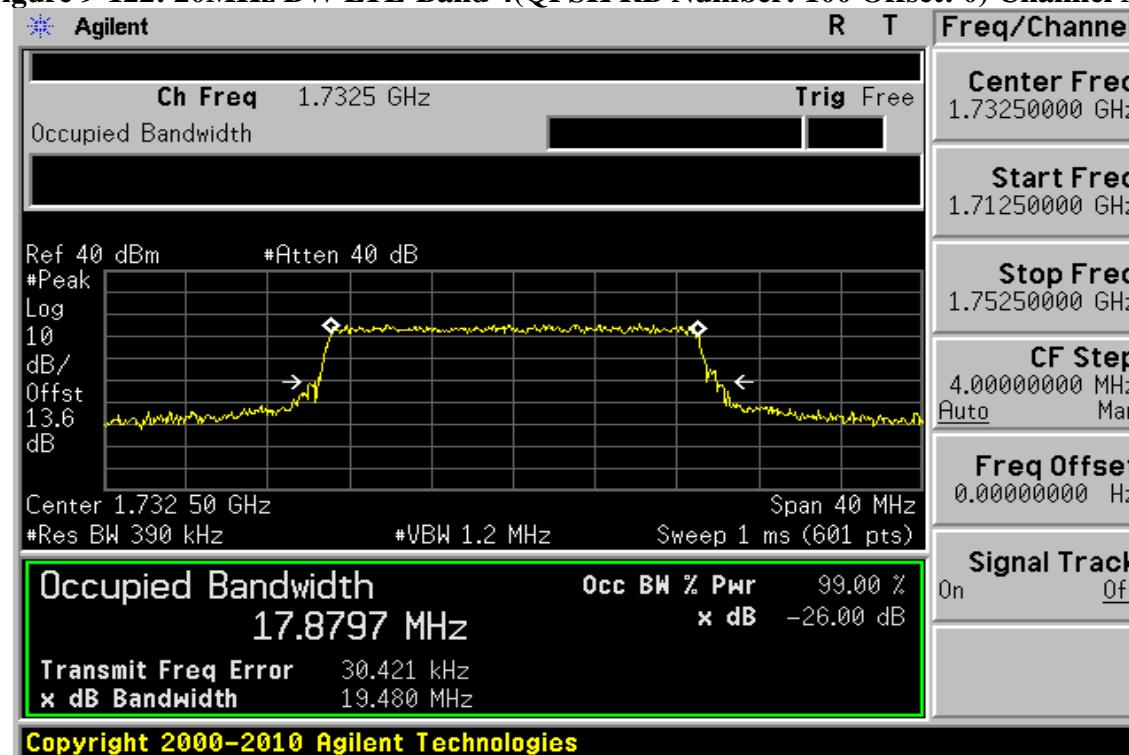


Figure 9-122: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 9-123: 20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel High

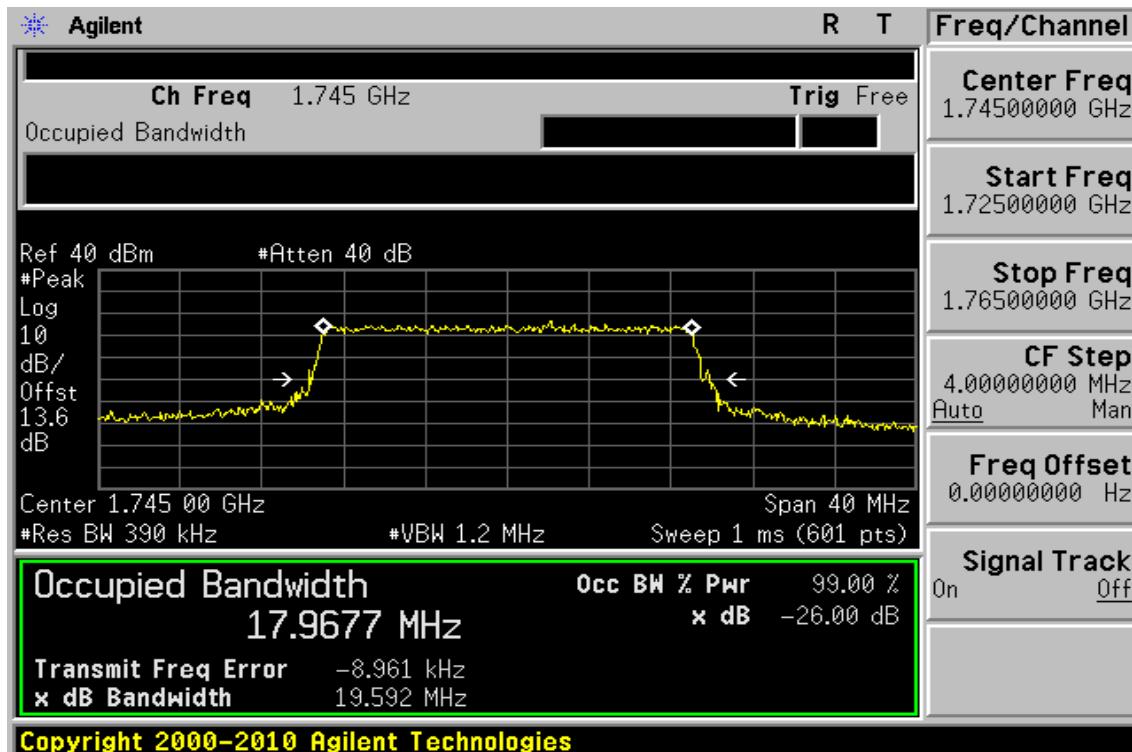
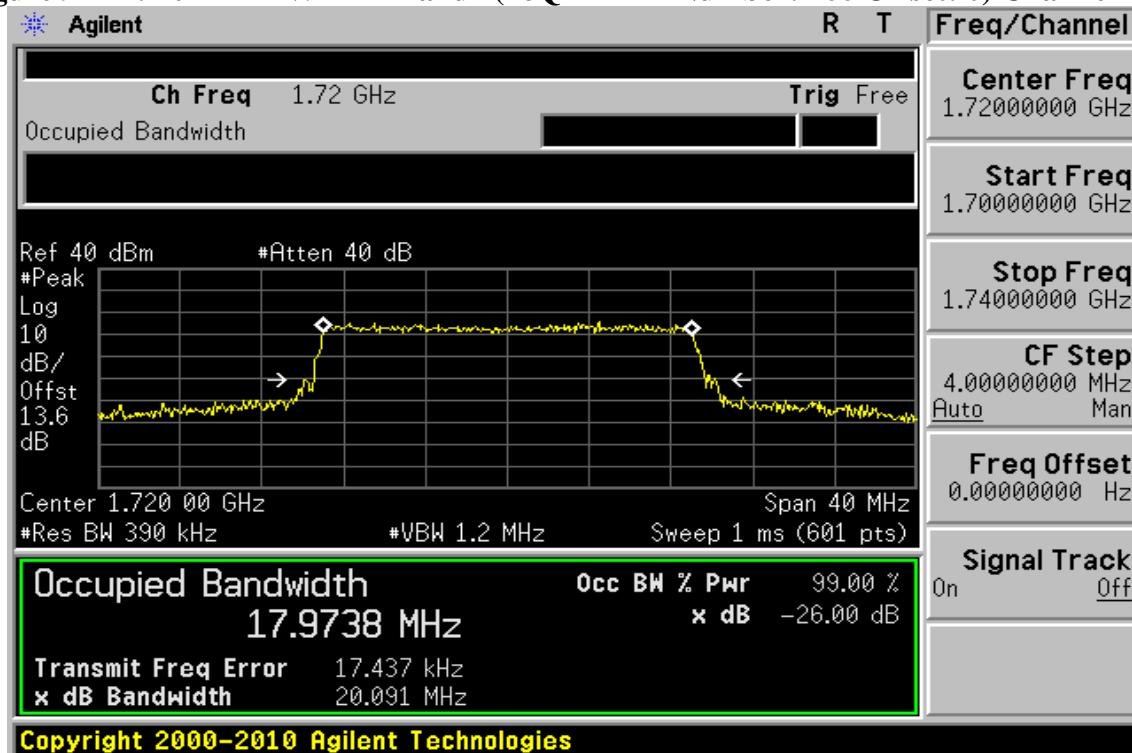


Figure 9-124: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Low



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Figure 9-125: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Mid

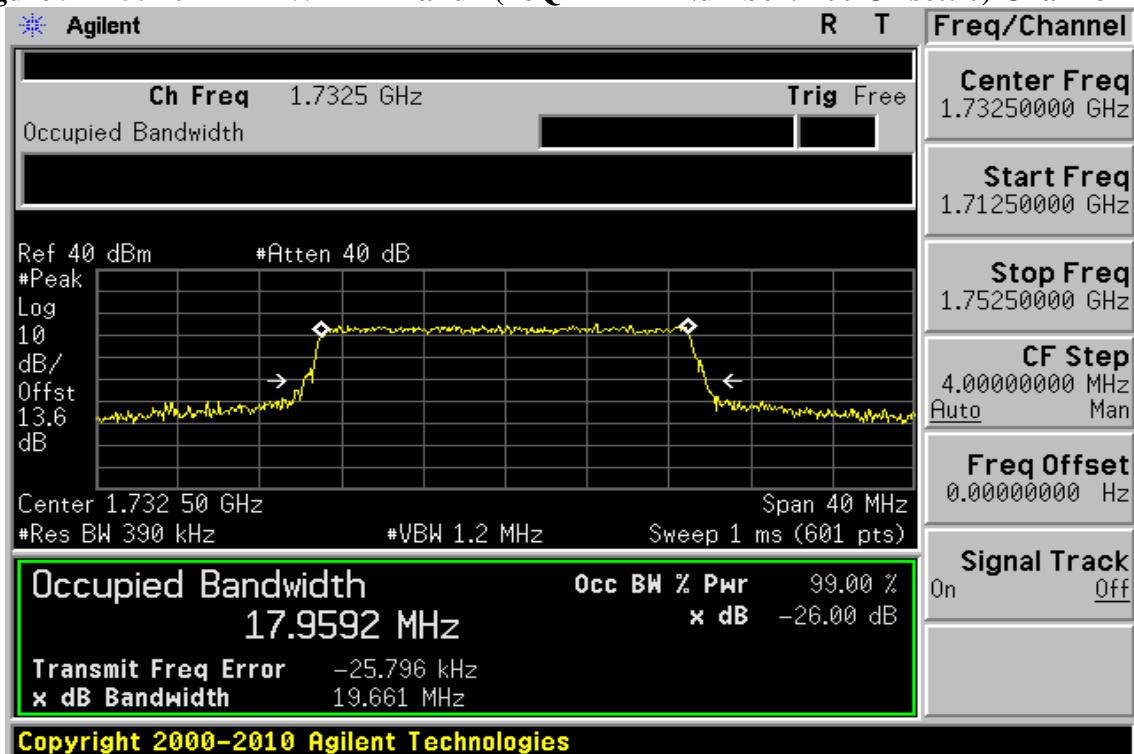
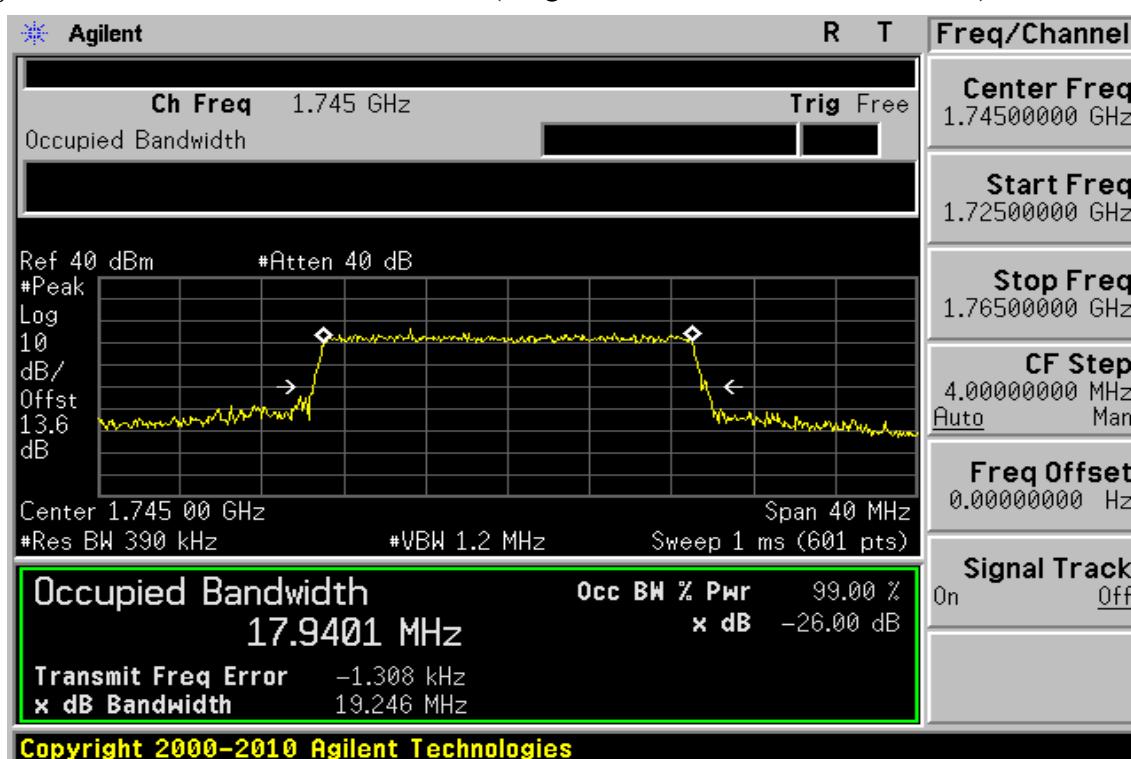


Figure 9-126: 20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel High



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Figure 9-127: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low

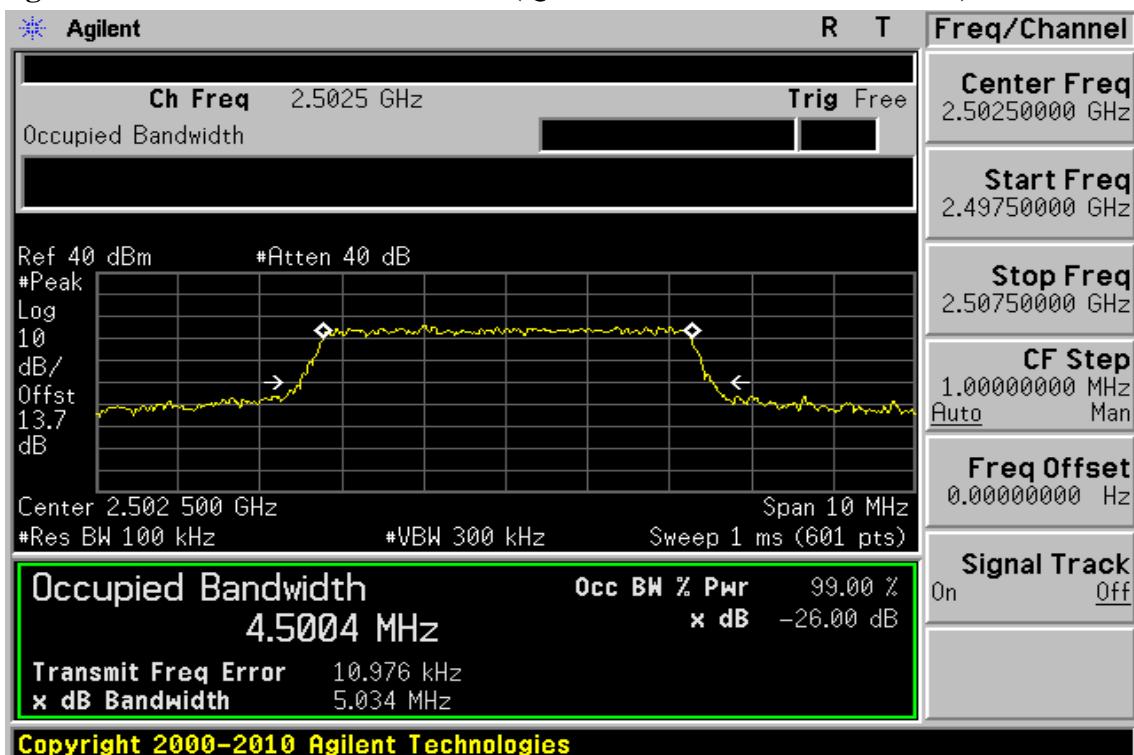
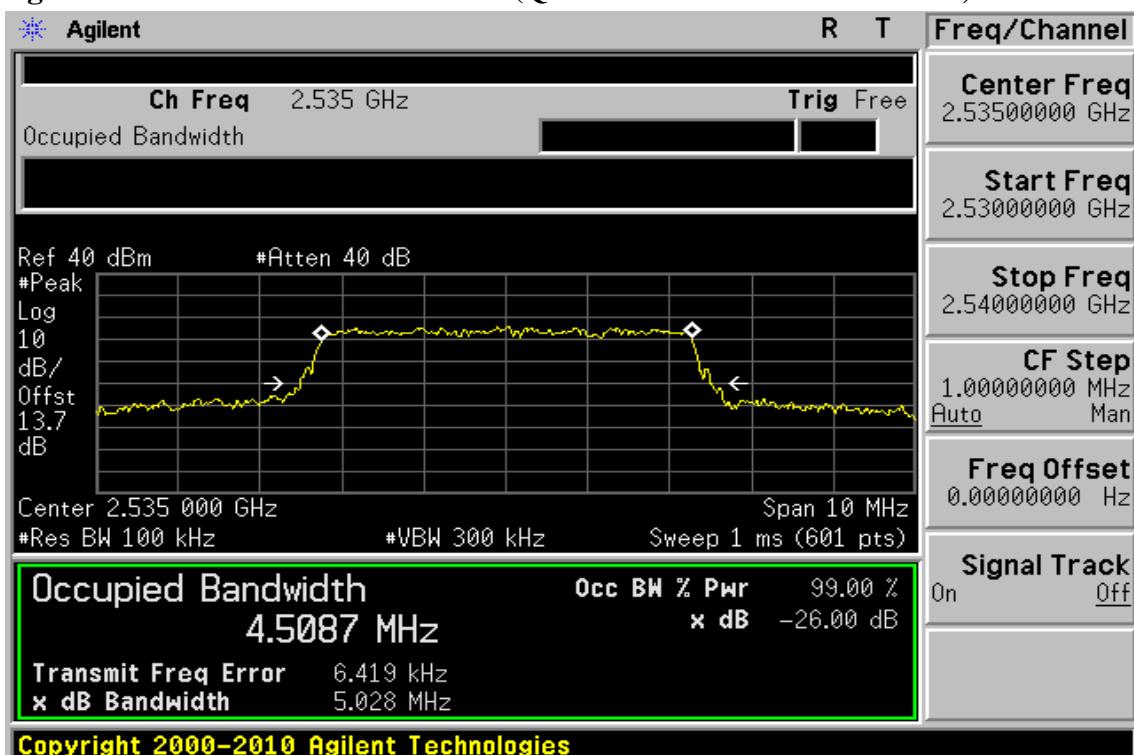


Figure 9-128: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 9-129: 5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High

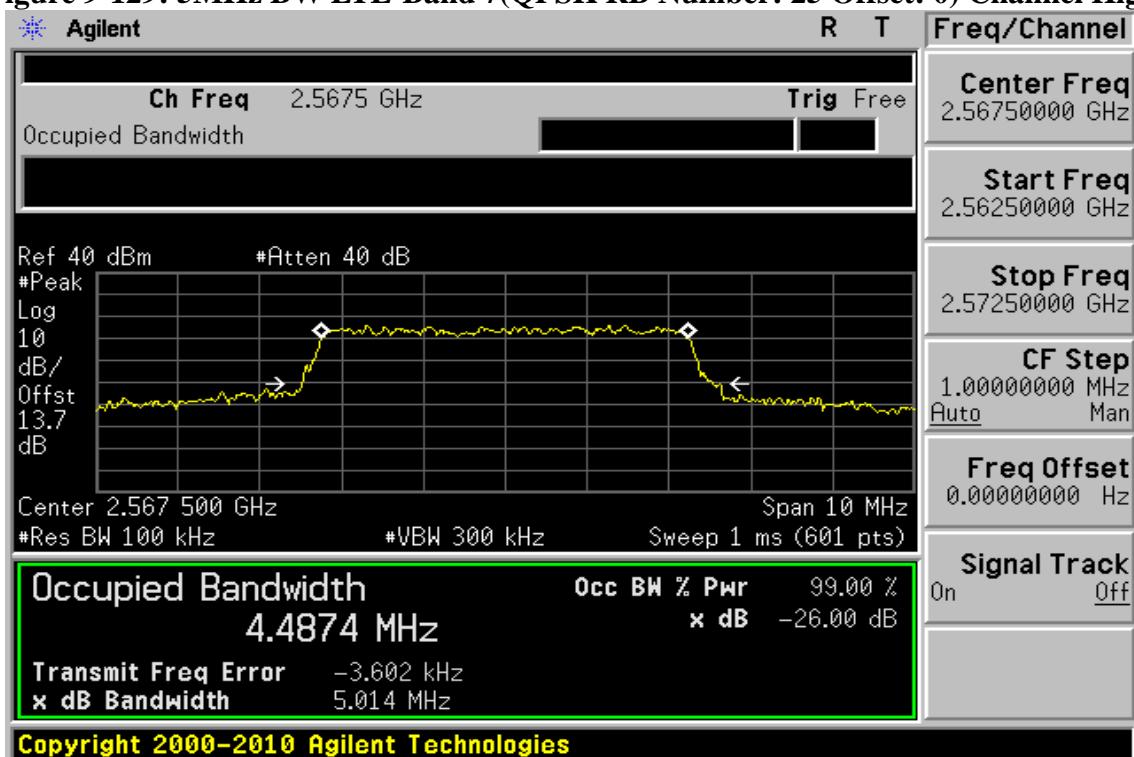
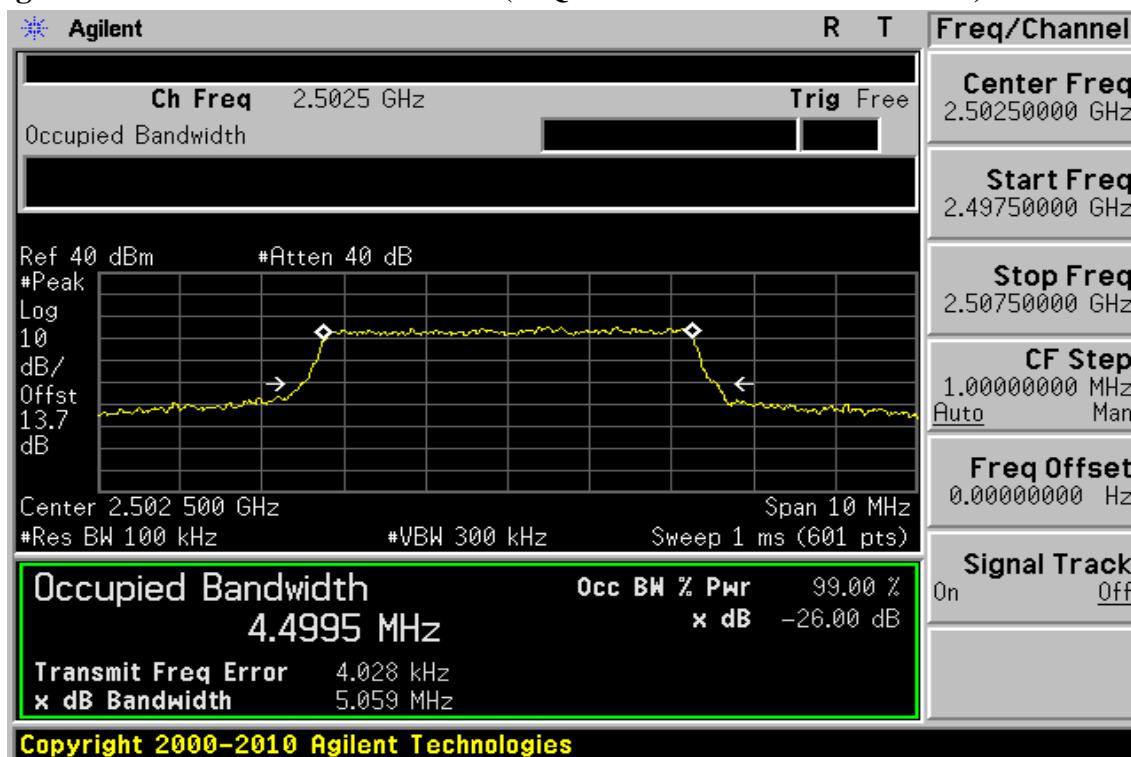


Figure 9-130: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 9-131: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid

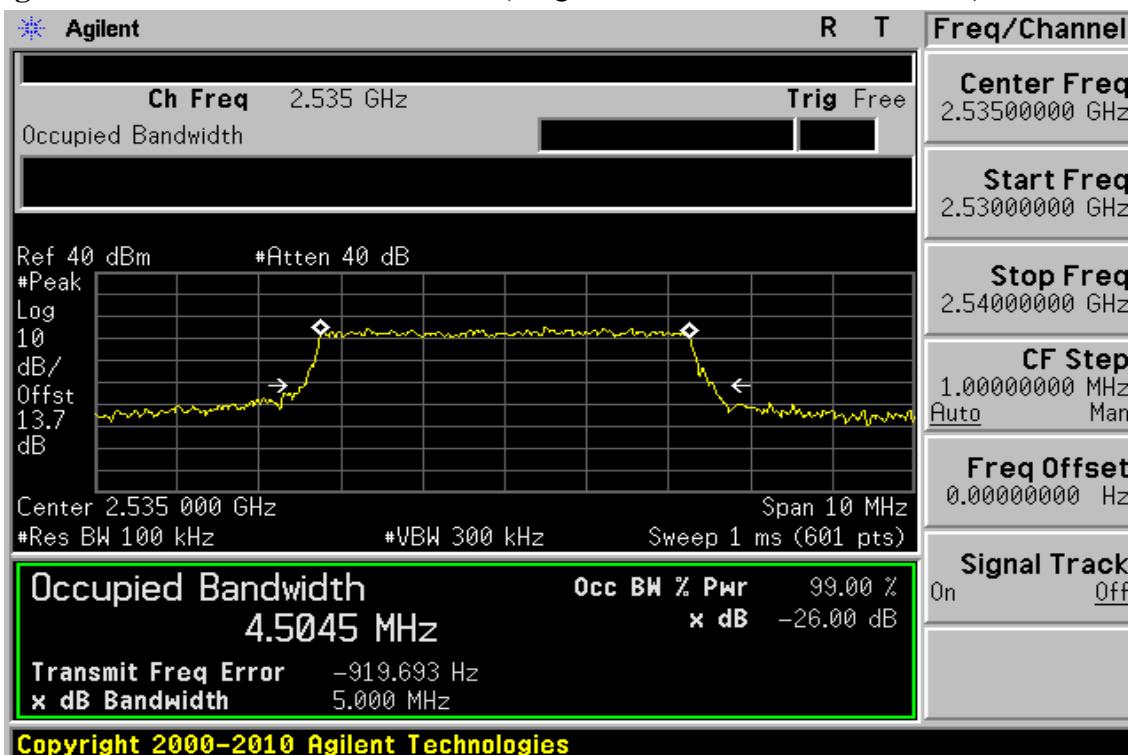
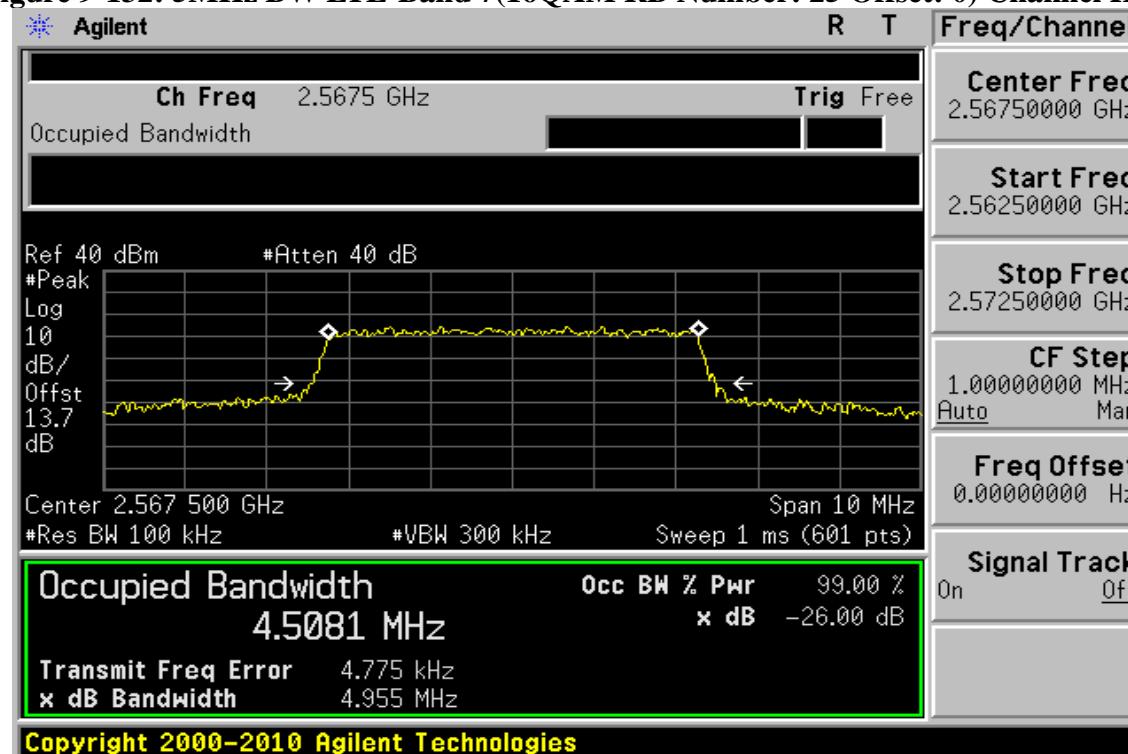


Figure 9-132: 5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 9-133: 10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low

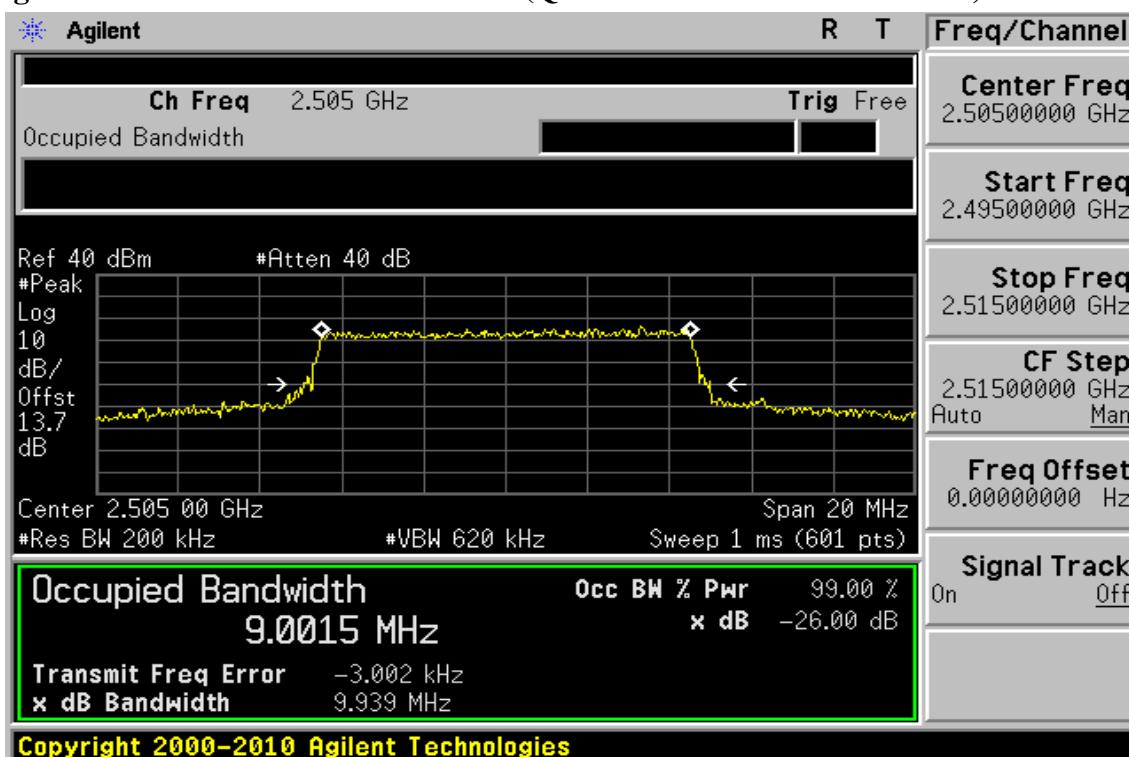
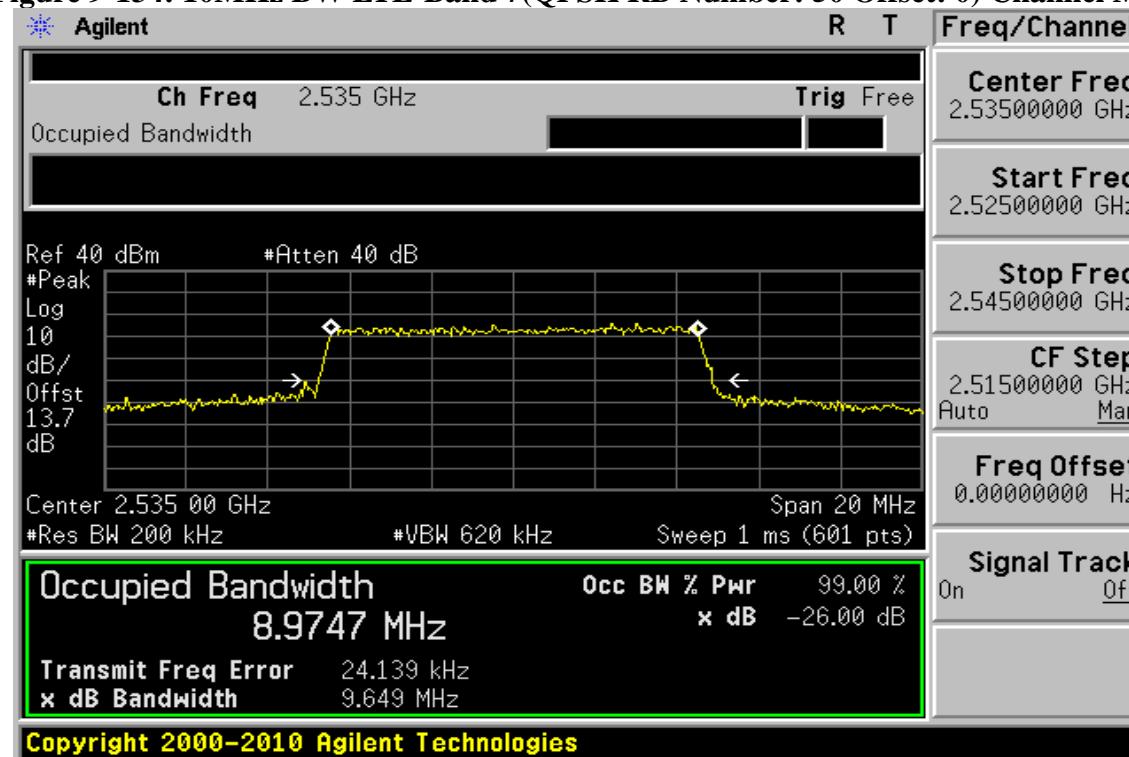


Figure 9-134: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 9-135: 10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High

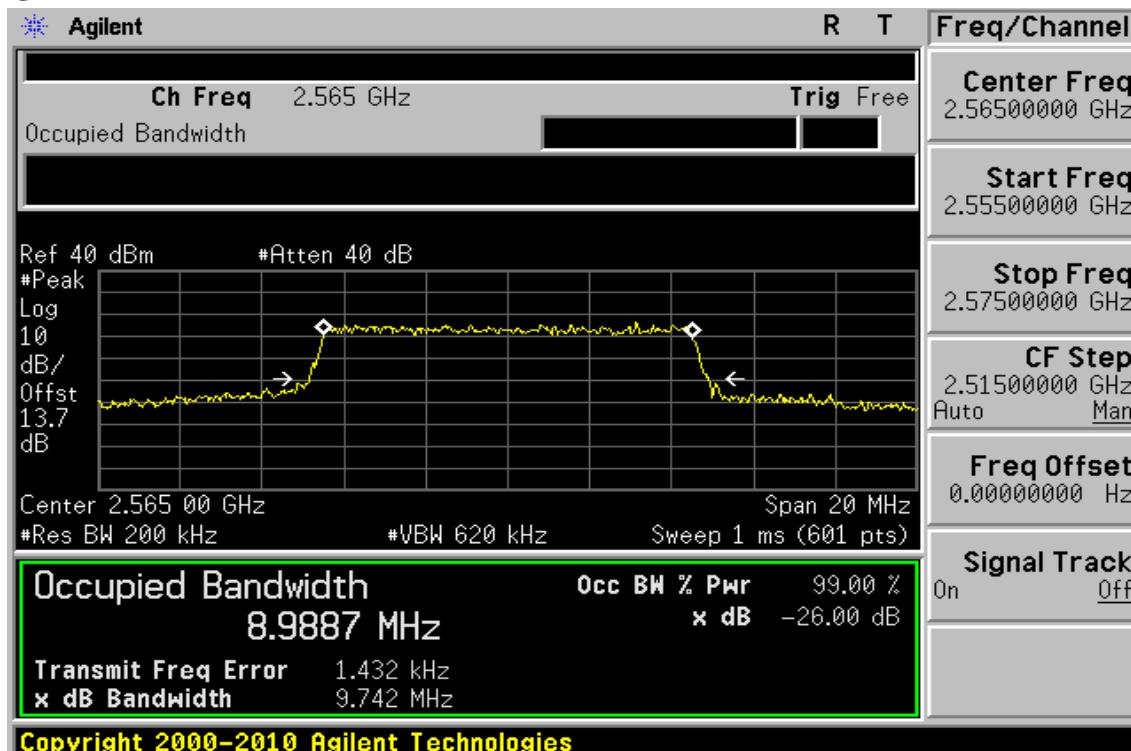
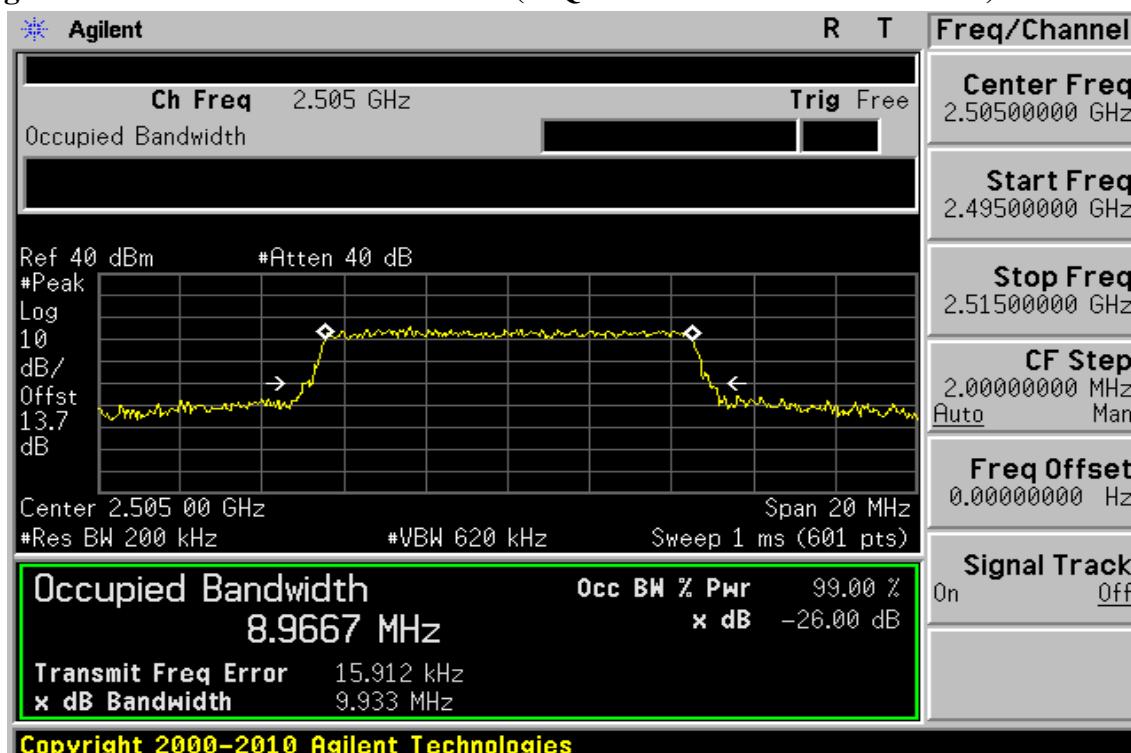


Figure 9-136: 10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 9-137: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid

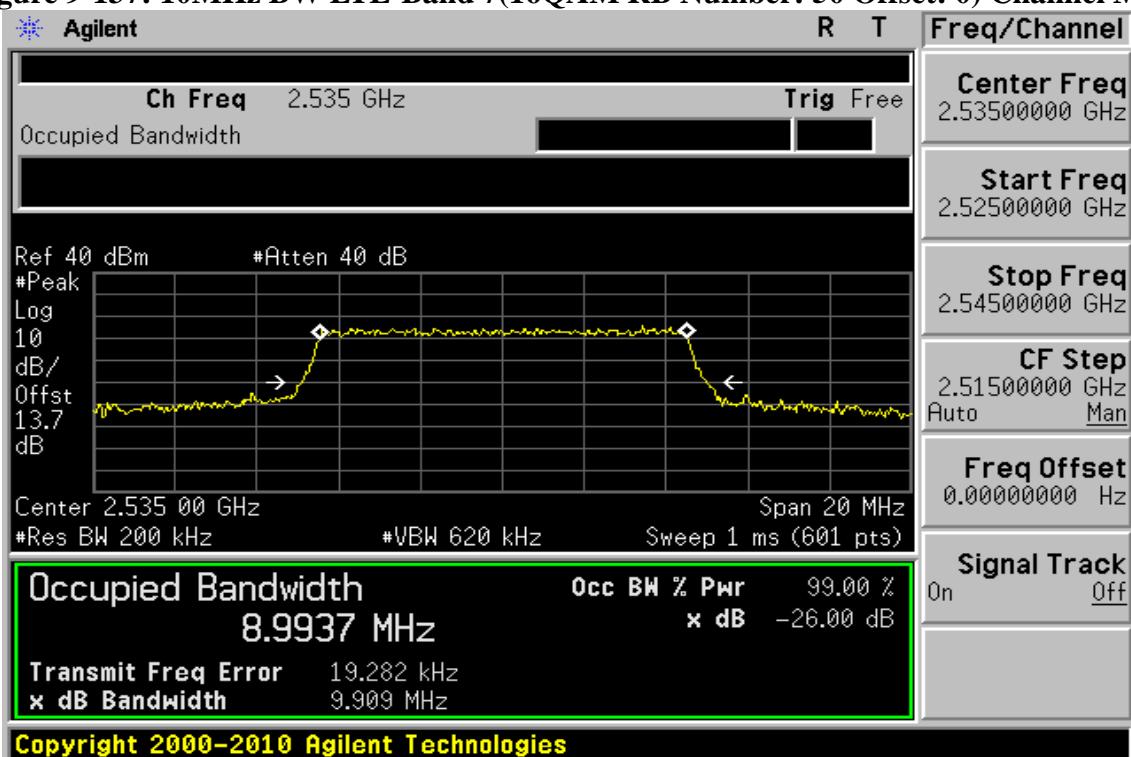
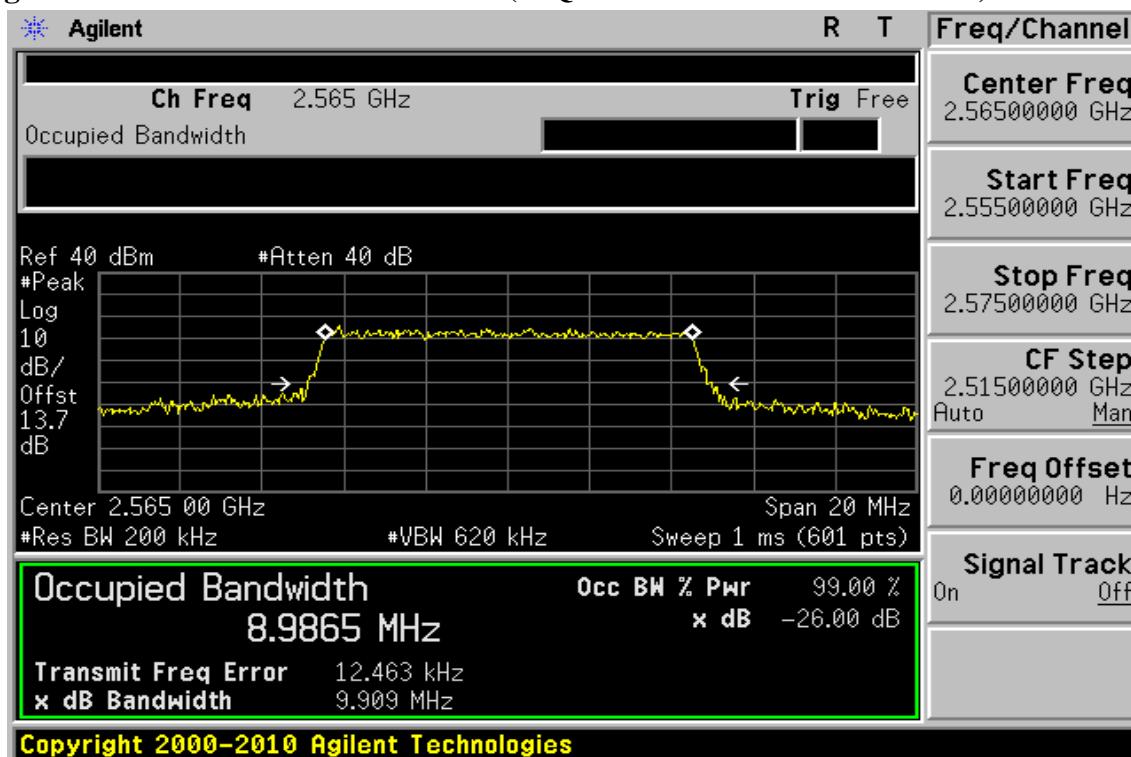


Figure 9-138: 10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 9-139: 15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low

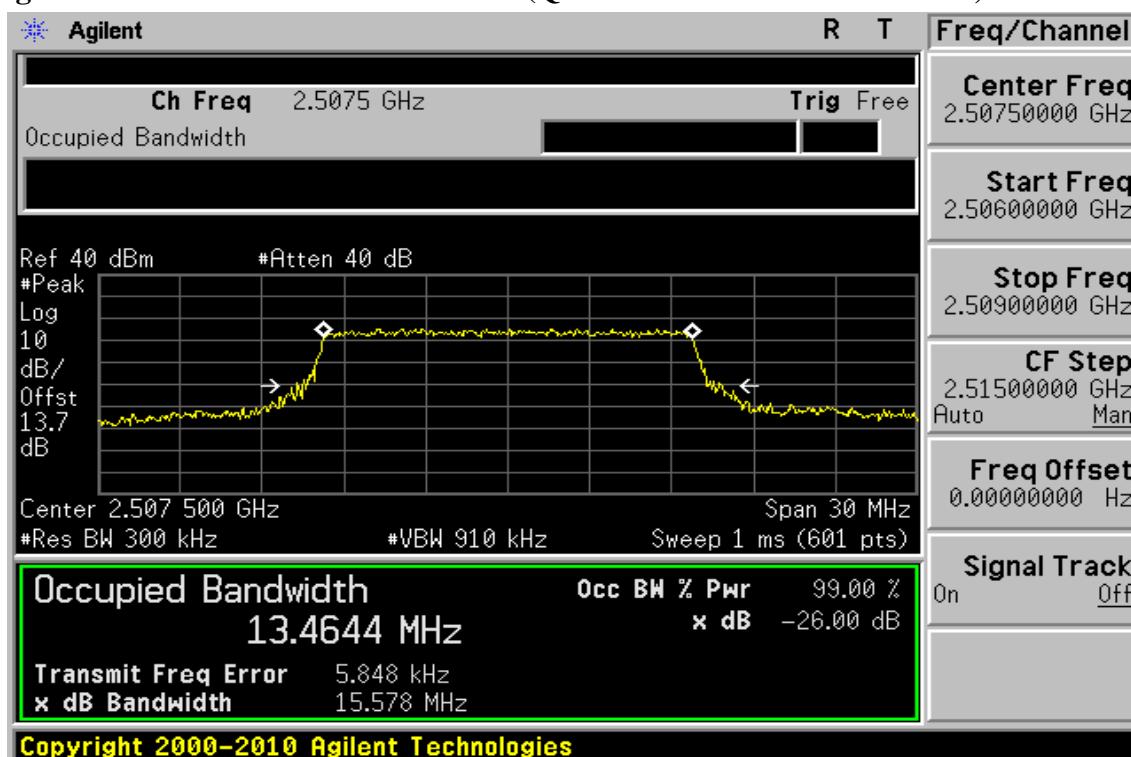
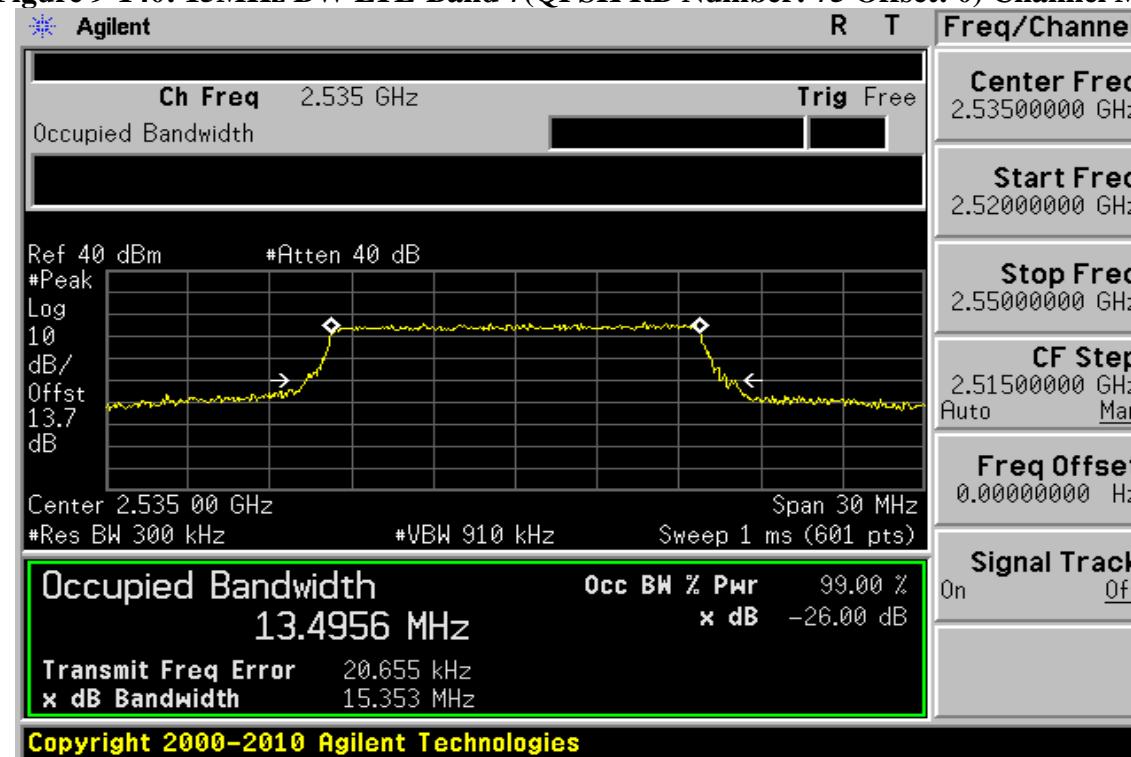


Figure 9-140: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 9-141: 15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High

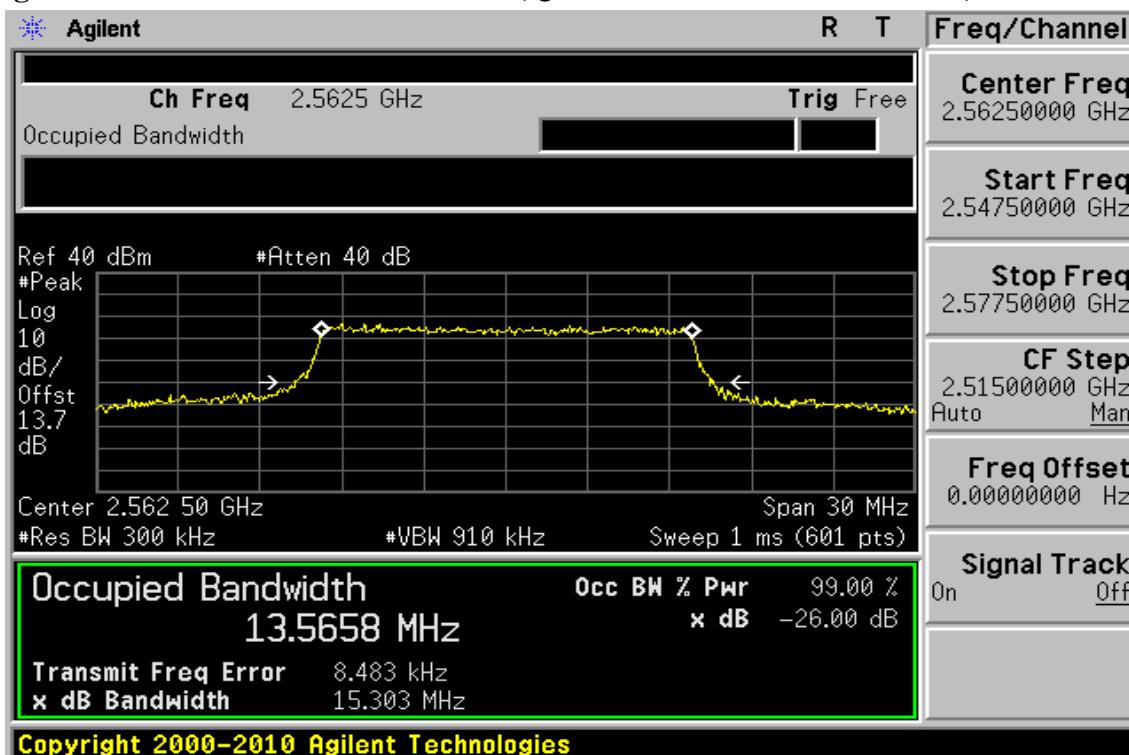
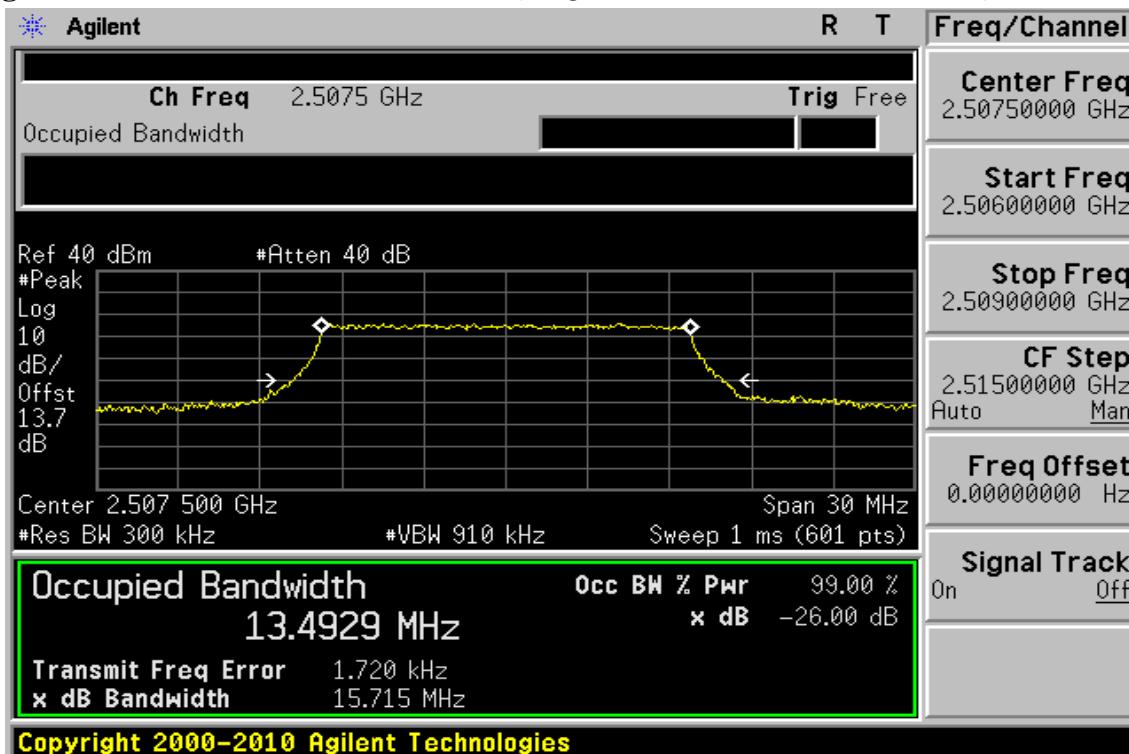


Figure 9-142: 15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 9-143: 10MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid

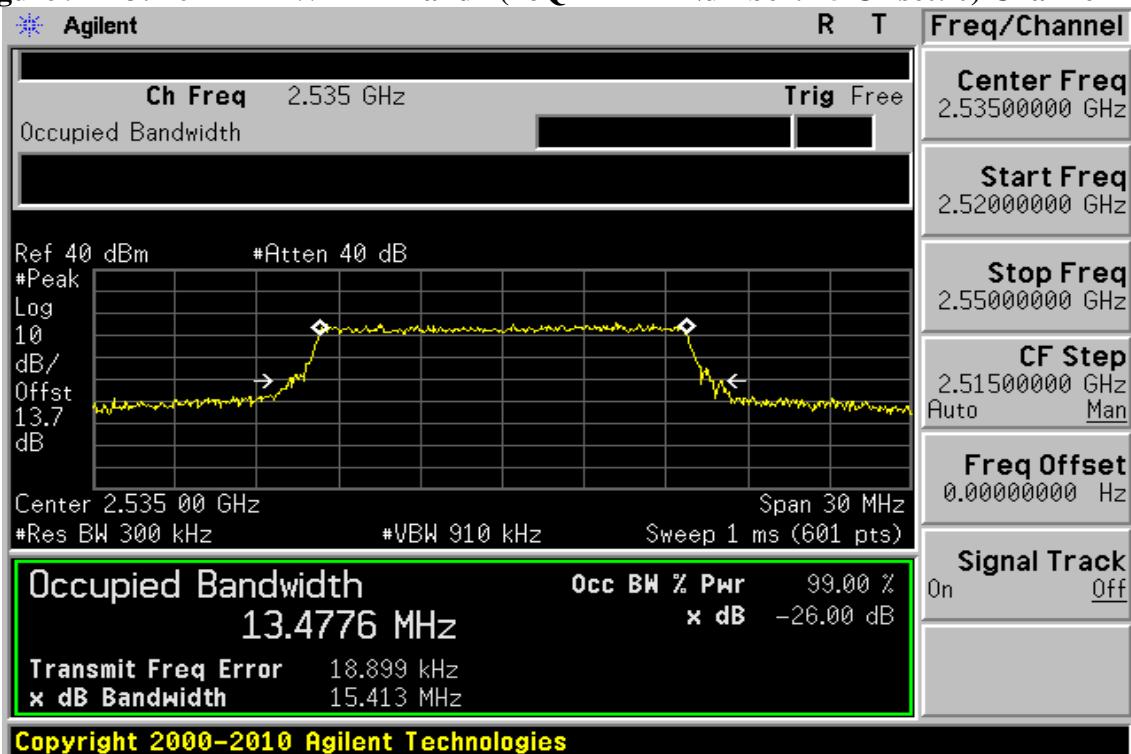
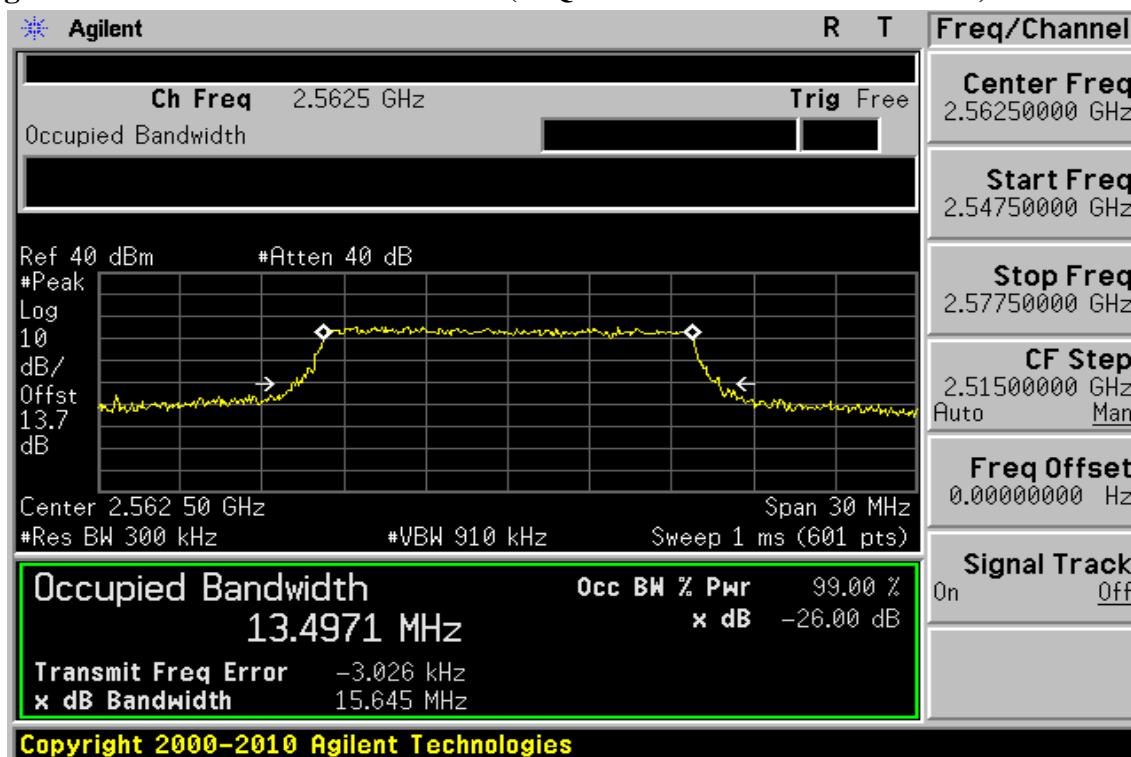


Figure 9-144: 10MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel High



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Figure 9-145: 20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low

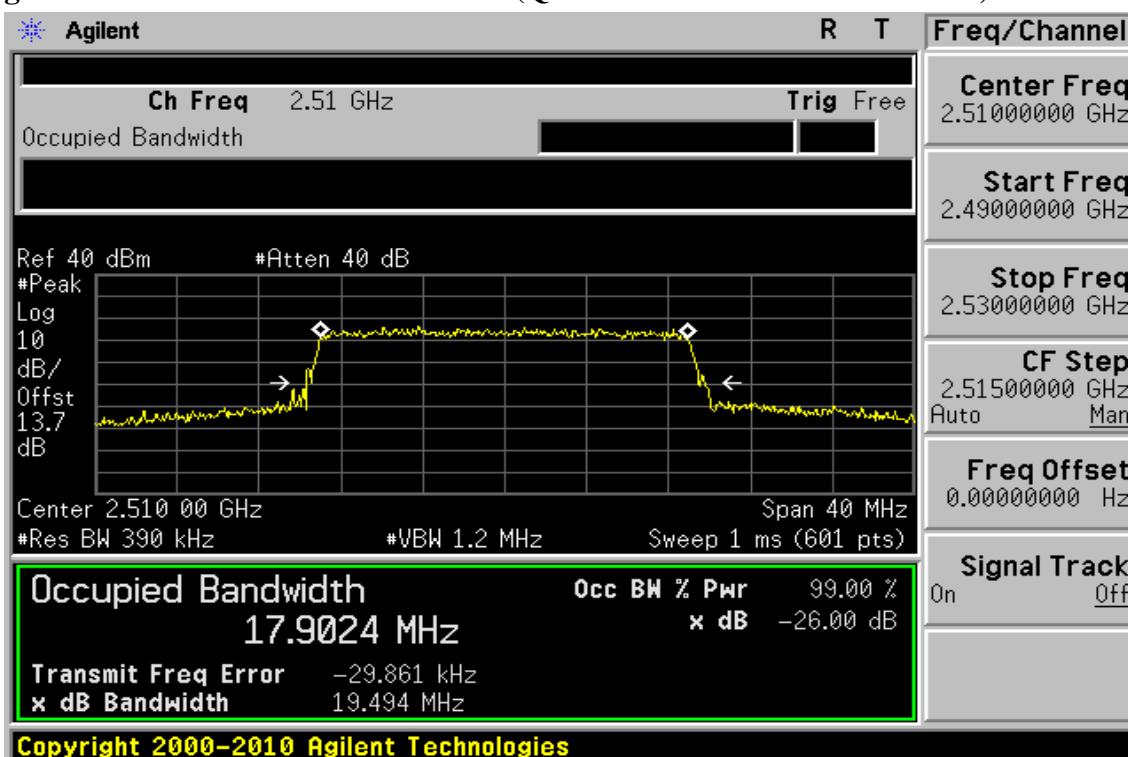
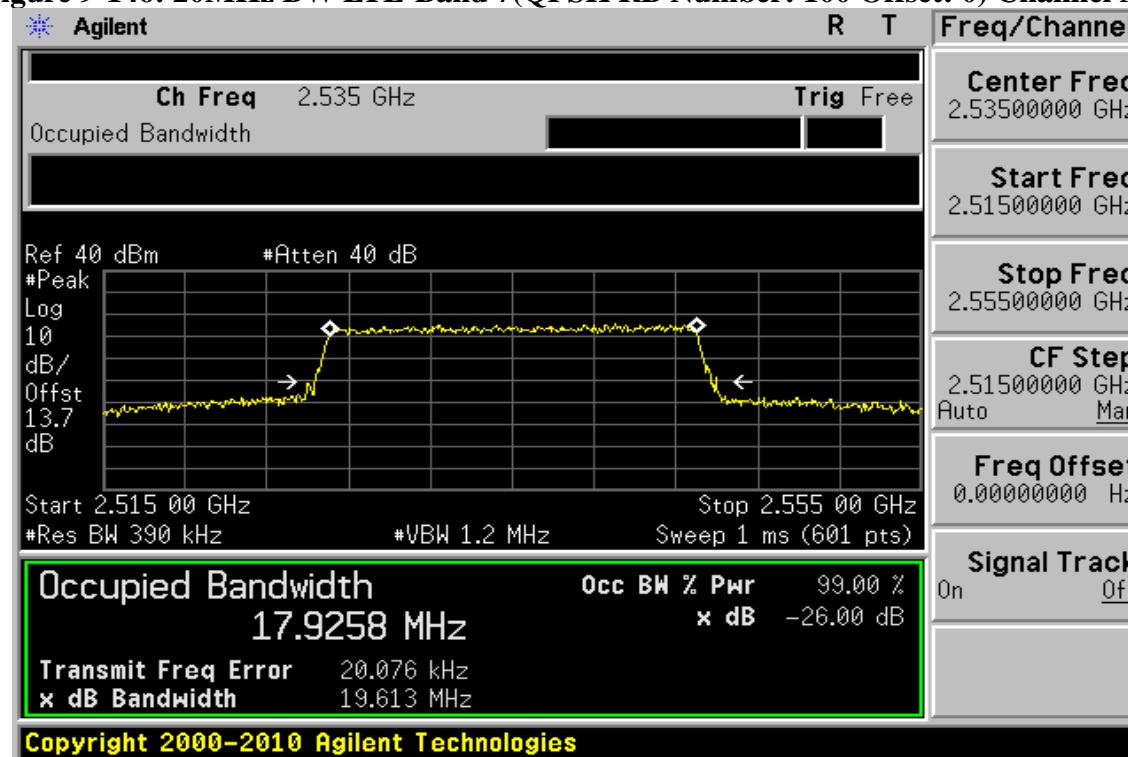


Figure 9-146: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 9-147: 20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High

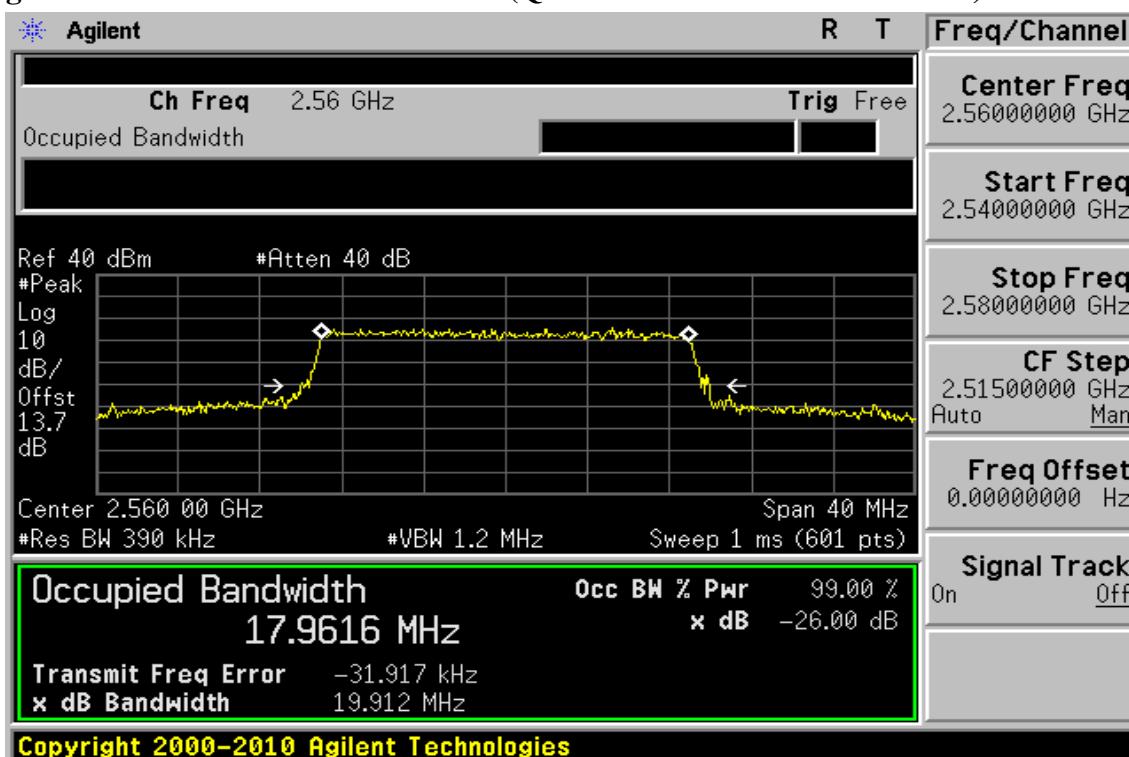
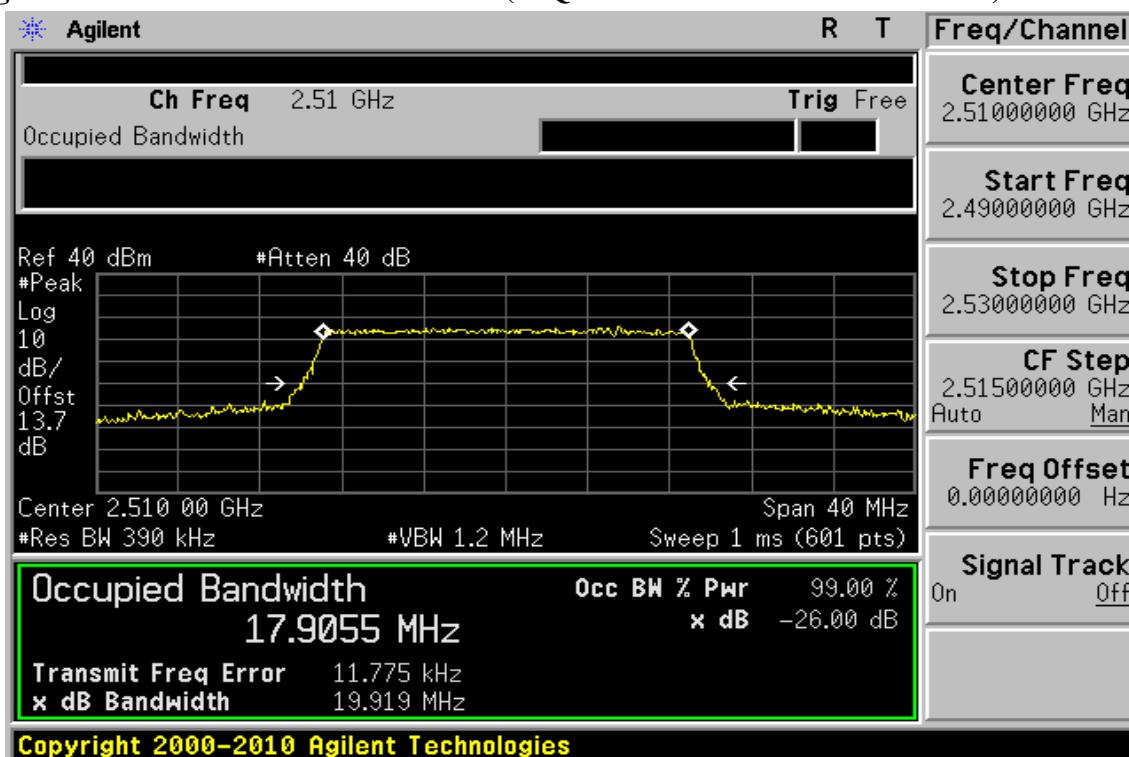


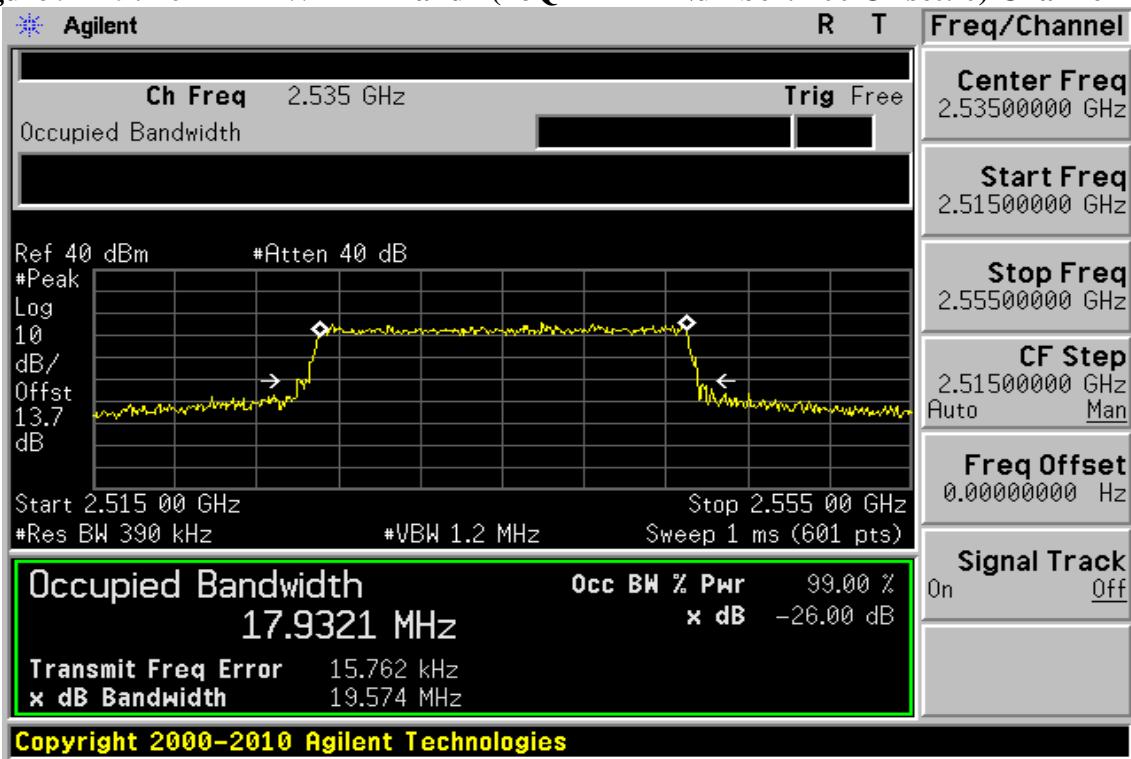
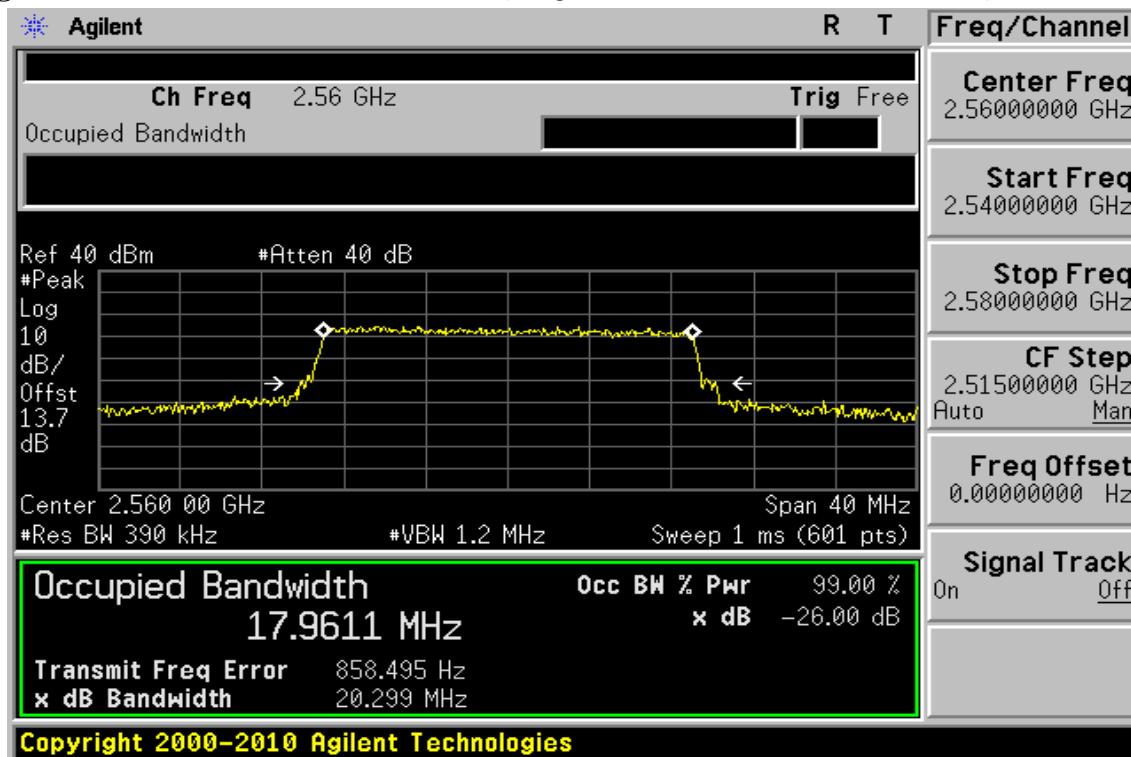
Figure 9-148: 20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0) Channel Low



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Figure 9-149: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid

Figure 9-150: 20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel High


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Figure 9-151: 5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Low

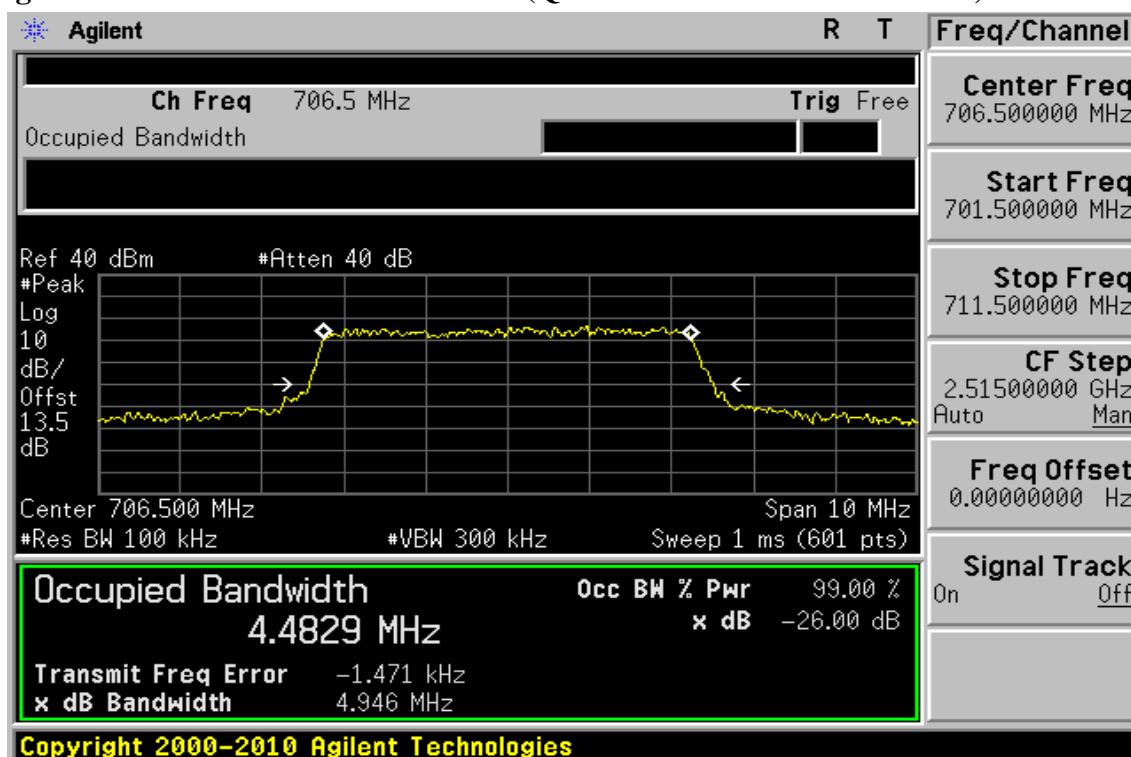
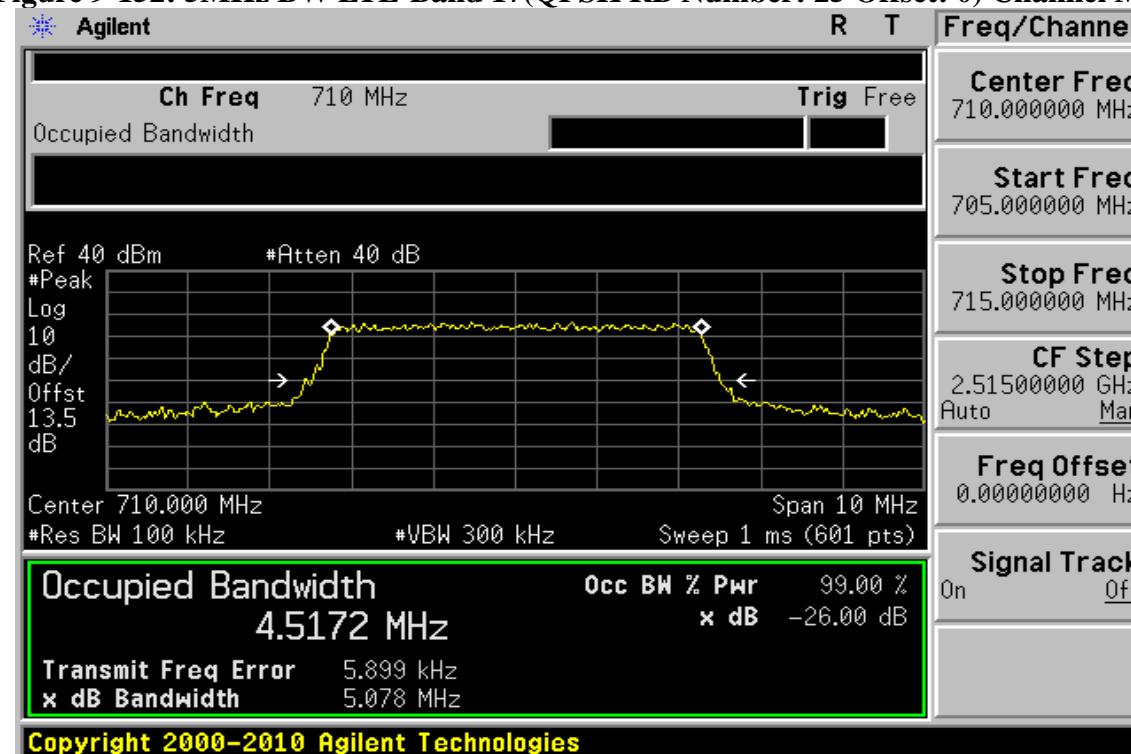


Figure 9-152: 5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 9-153: 5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel High

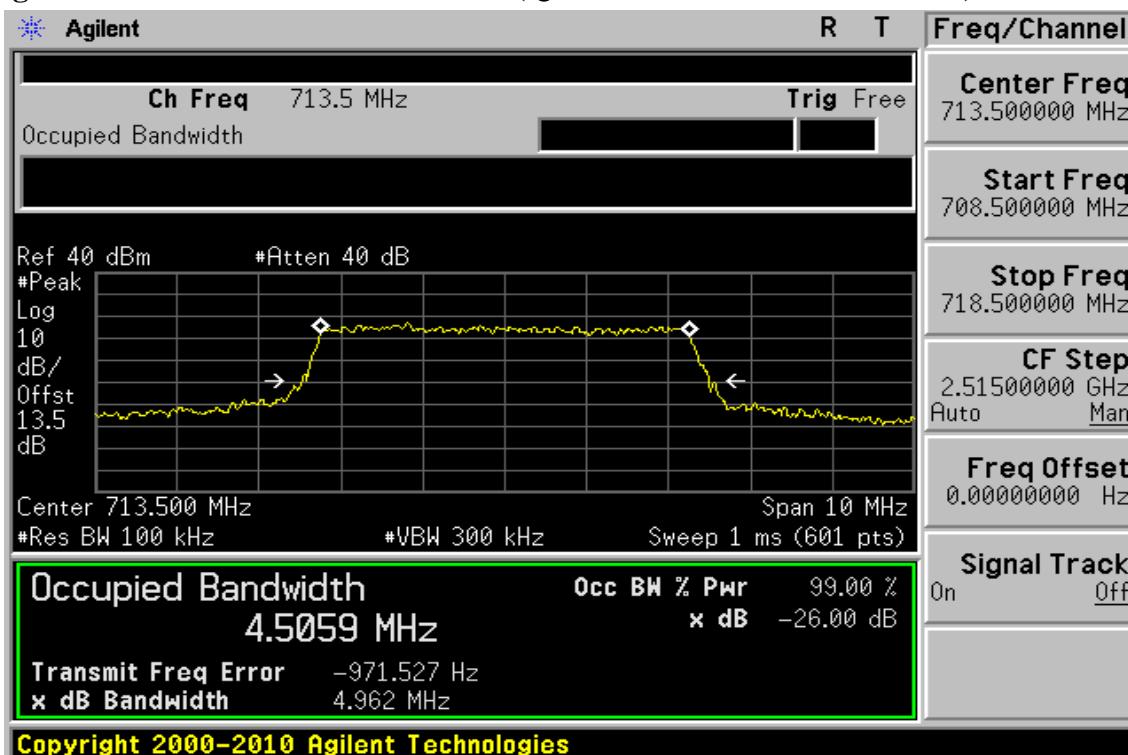
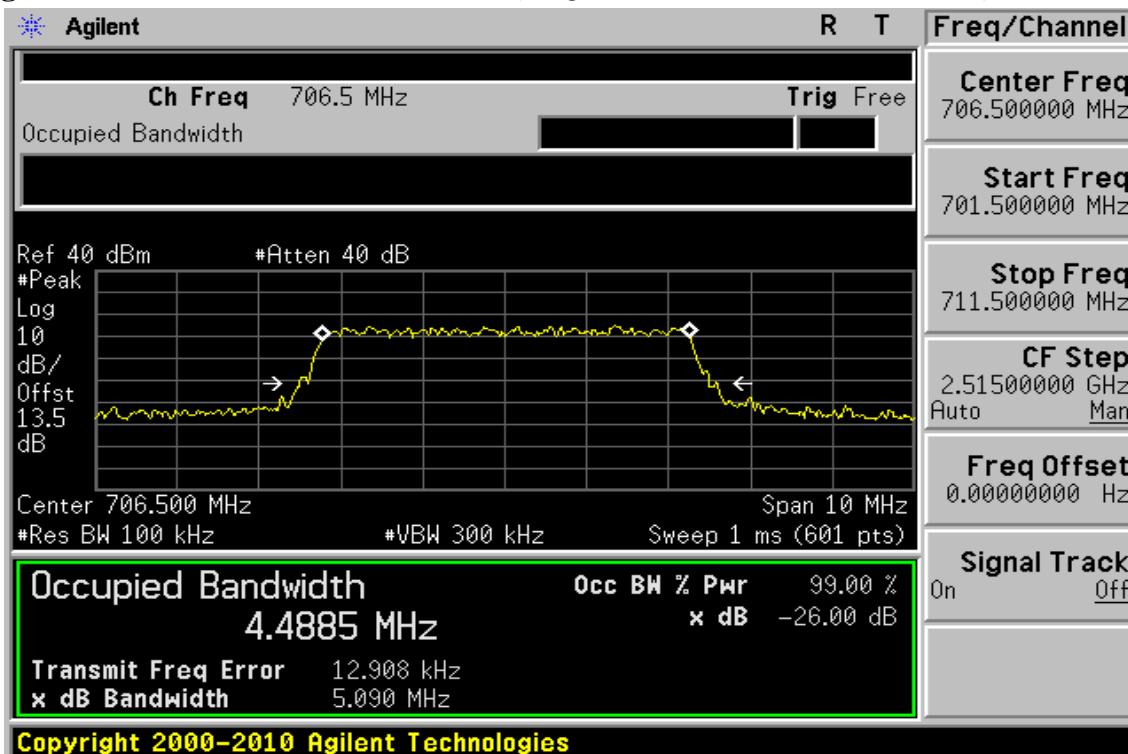


Figure 9-154: 5MHz BW LTE-Band 17 (16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 9-155: 5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel Mid

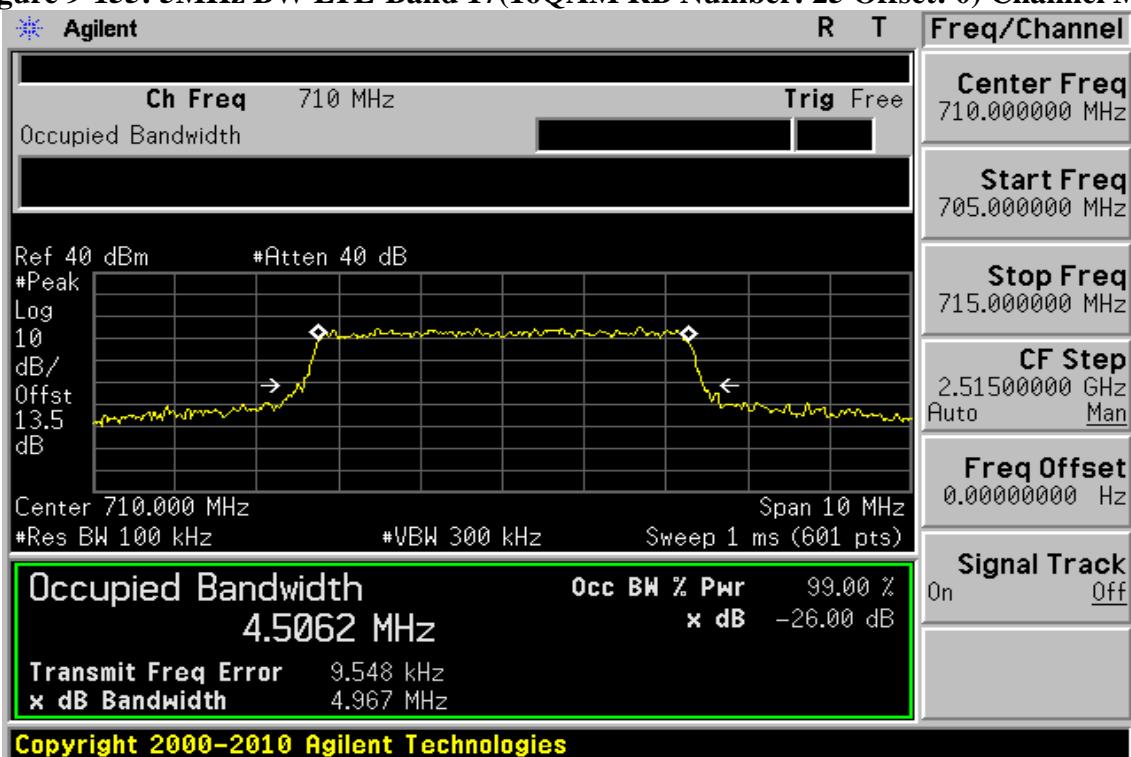
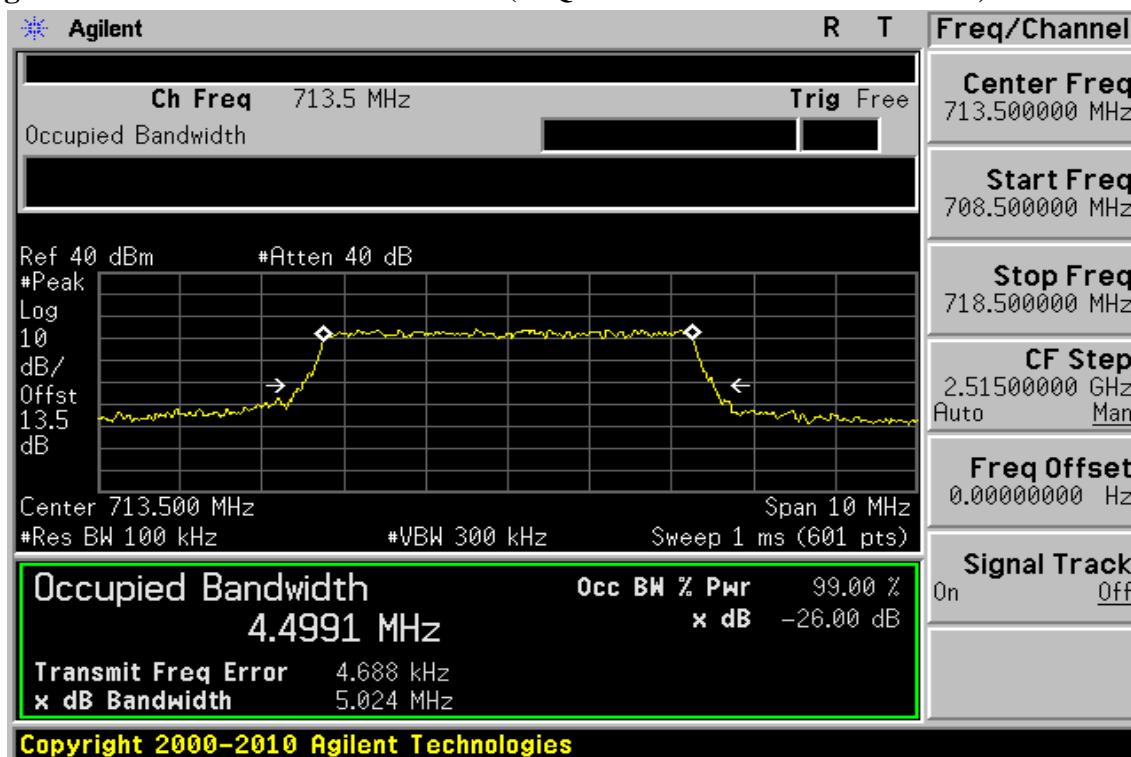


Figure 9-156: 5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 9-157: 10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Low

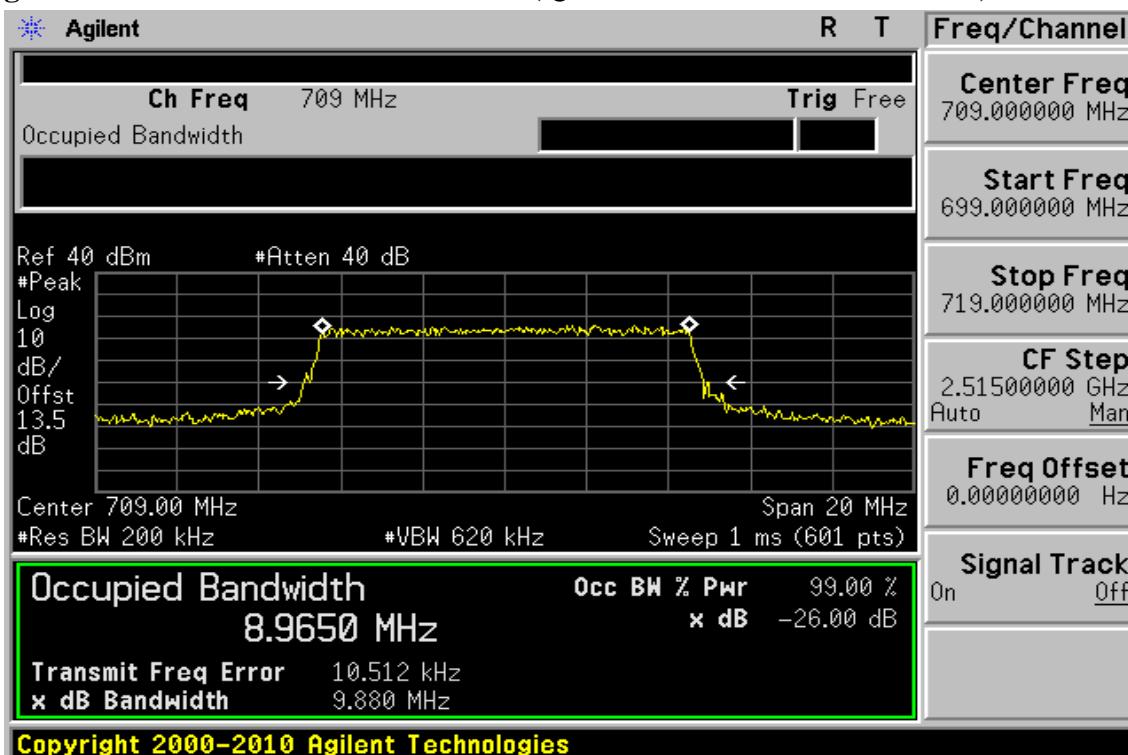
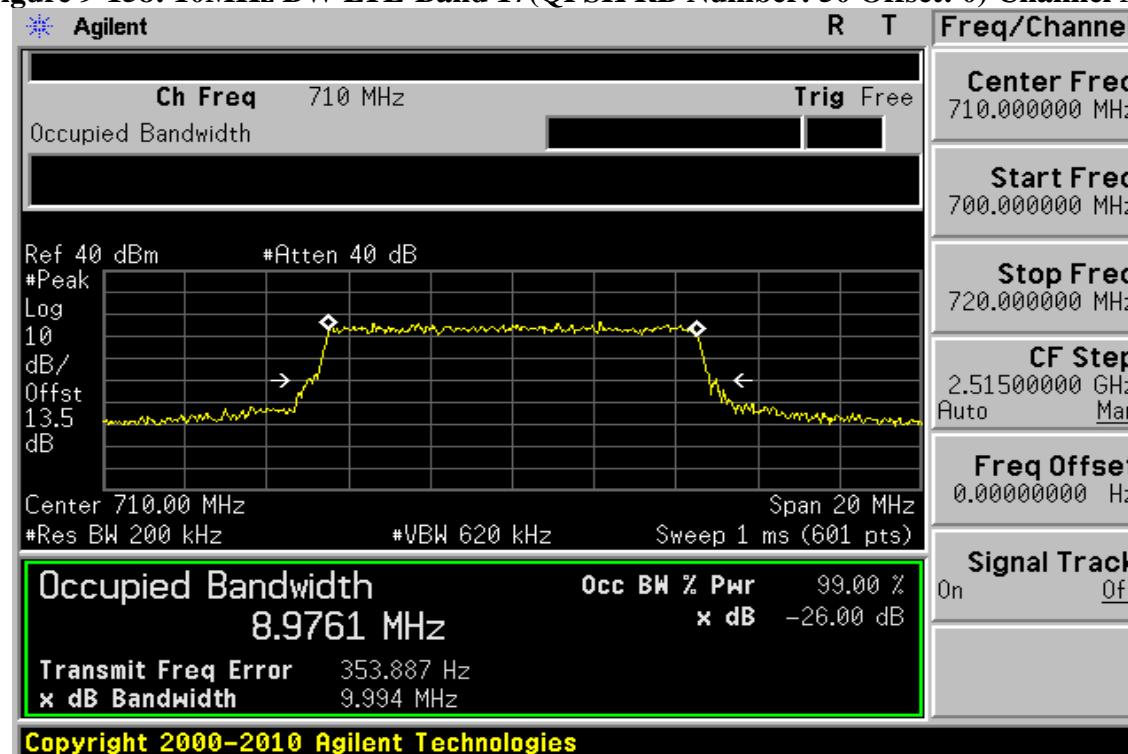


Figure 9-158: 10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 9-159: 10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel High

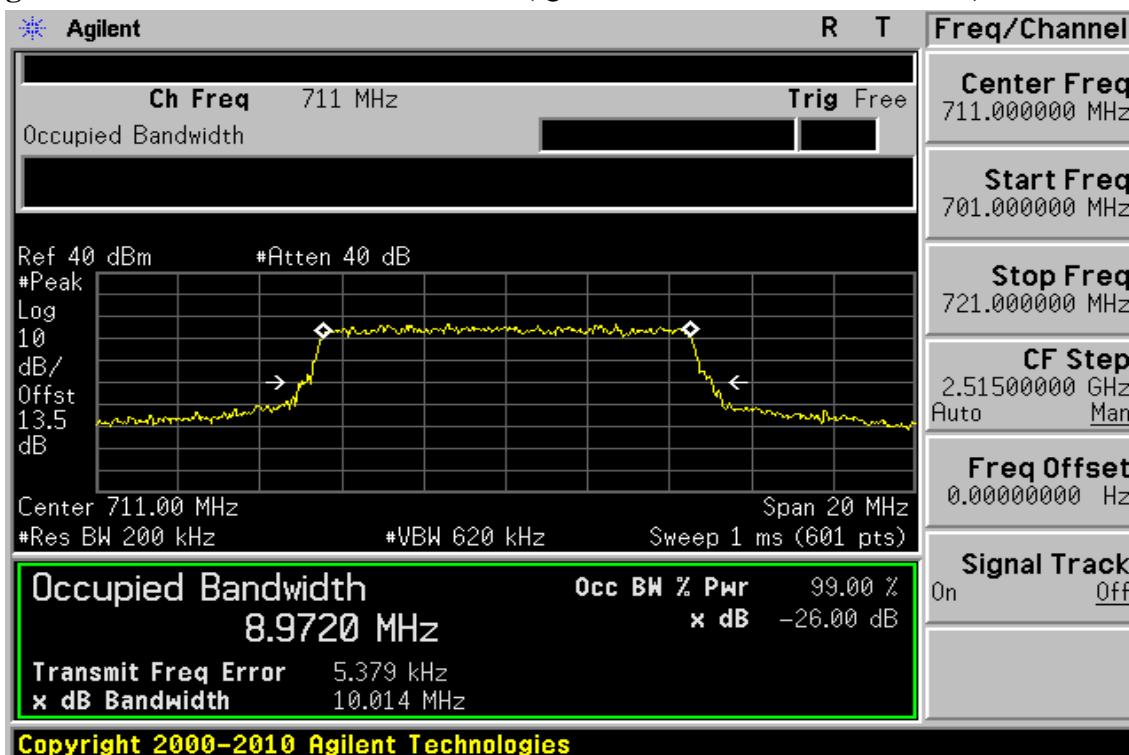
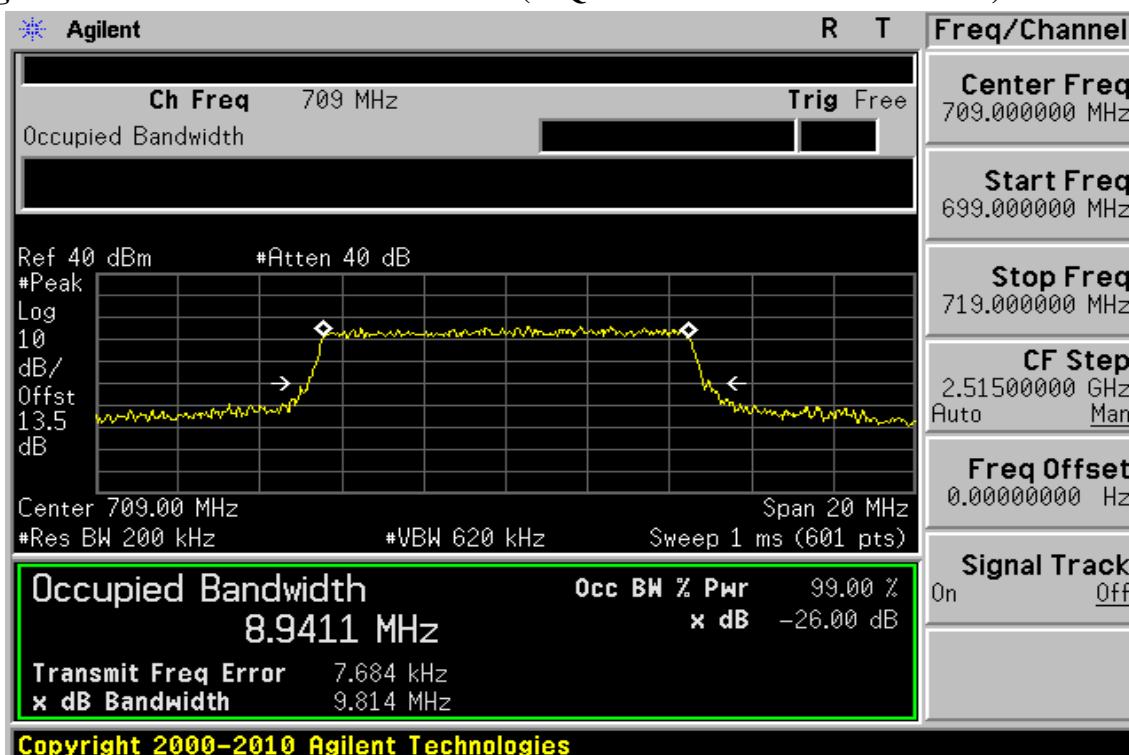


Figure 9-160: 10MHz BW LTE-Band 17 (16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 9-161: 10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel Mid

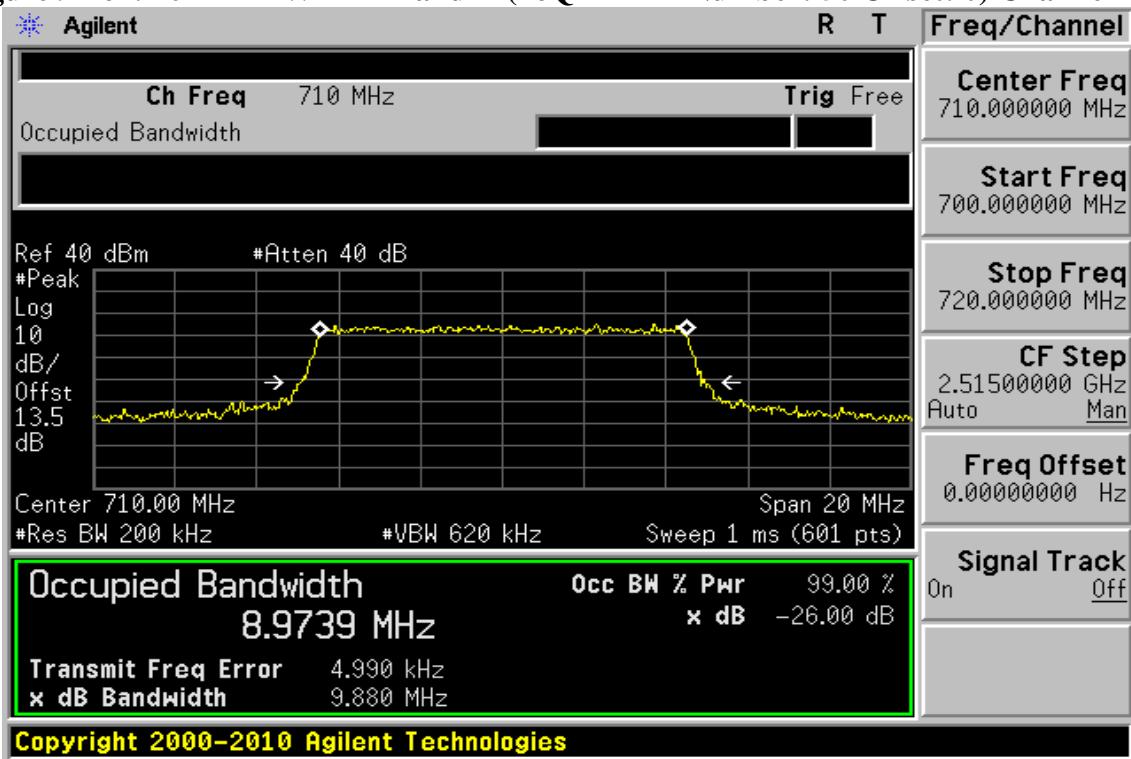
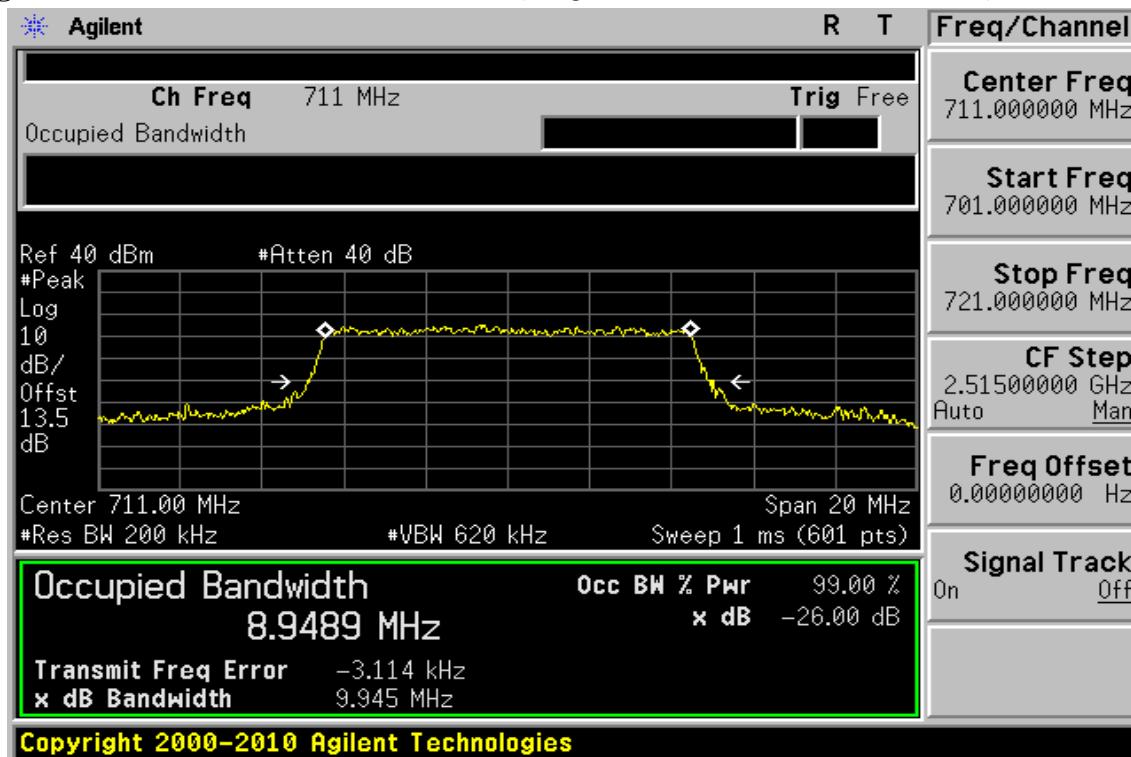


Figure 9-162: 10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel High



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10. OUT OF BAND EMISSION AT ANTENNA TERMINALS

10.1. Standard Applicable:

According to FCC §2.1051.

Out-of-Band Emission

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

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 $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 megahertz from the channel edges. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on 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 MHz 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. 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 MHz or 1 percent of emission bandwidth, as specified). 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.

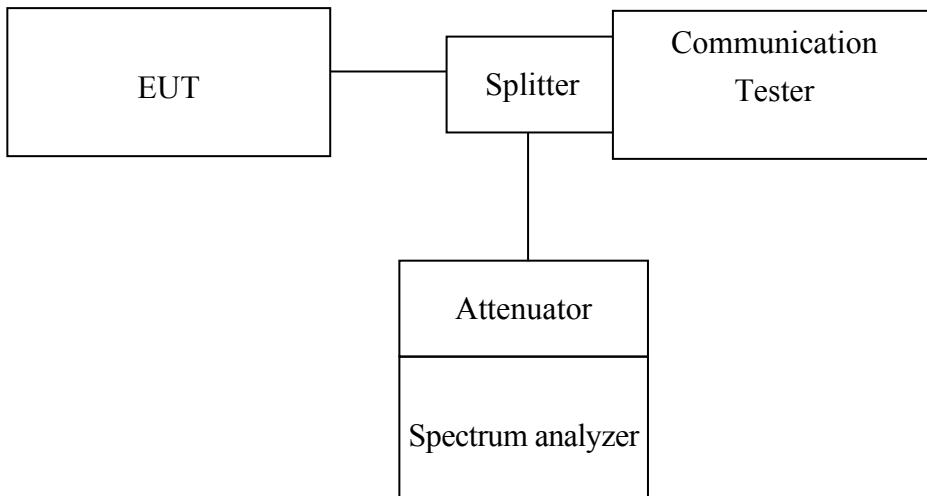
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10.2. Test SET-UP:

Out of band emission & Bandedge



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10.3. Measurement Procedure:

Out of Band Emission:

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

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum
3. Set Line = -13dBm as the limit line
4. 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
5. Via Software, combine 6 spans of frequency range into one plot
6. Repeat the measurement on other default test channels

Band Edge Requirements:

1. To connect Antenna Port of EUT to Spectrum.
2. Set Span enough to capture entire signal of emission Bandwidth of UE, RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Marker the point of signal 1MHz immediately outside of edge of frequency band of test channel, Marker the point of signal 100KHz immediately outside of edge of frequency band of test channel
4. Set Line = -13dBm as the limit line
5. Repeat the measurement on other default test channels

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

Band Rejecter is not used; the occurrence of the spike on plot shows the signal of the fundamental emission.

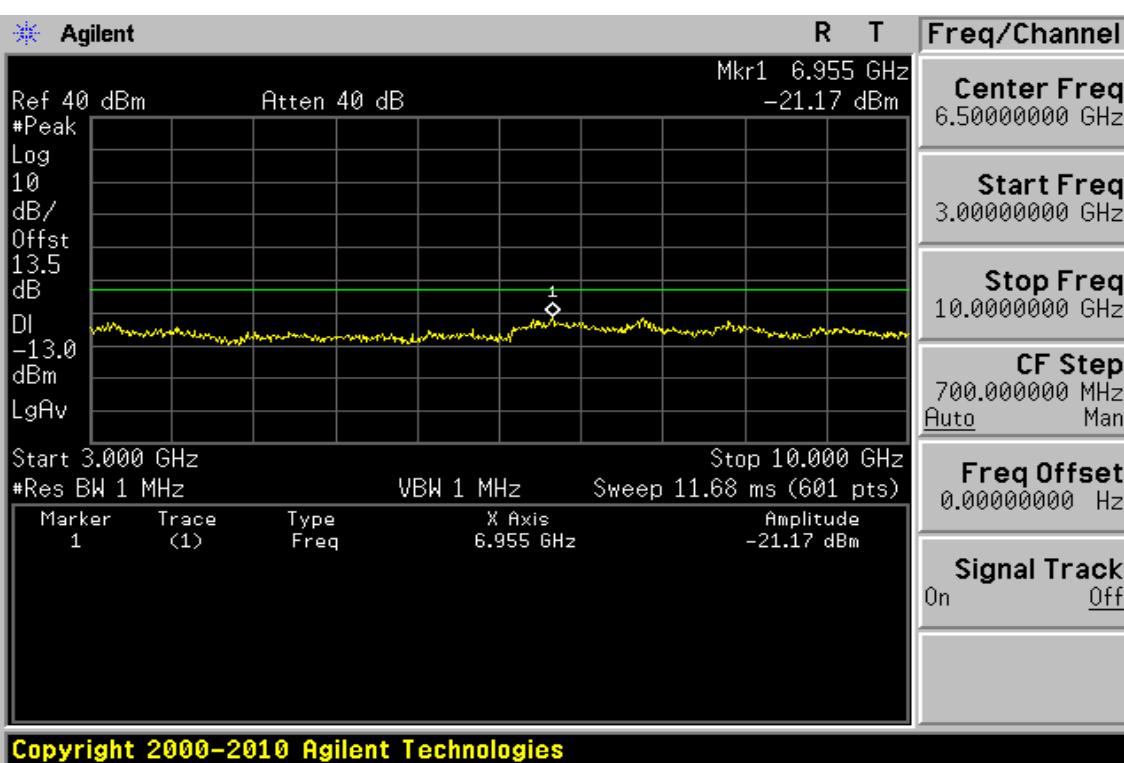
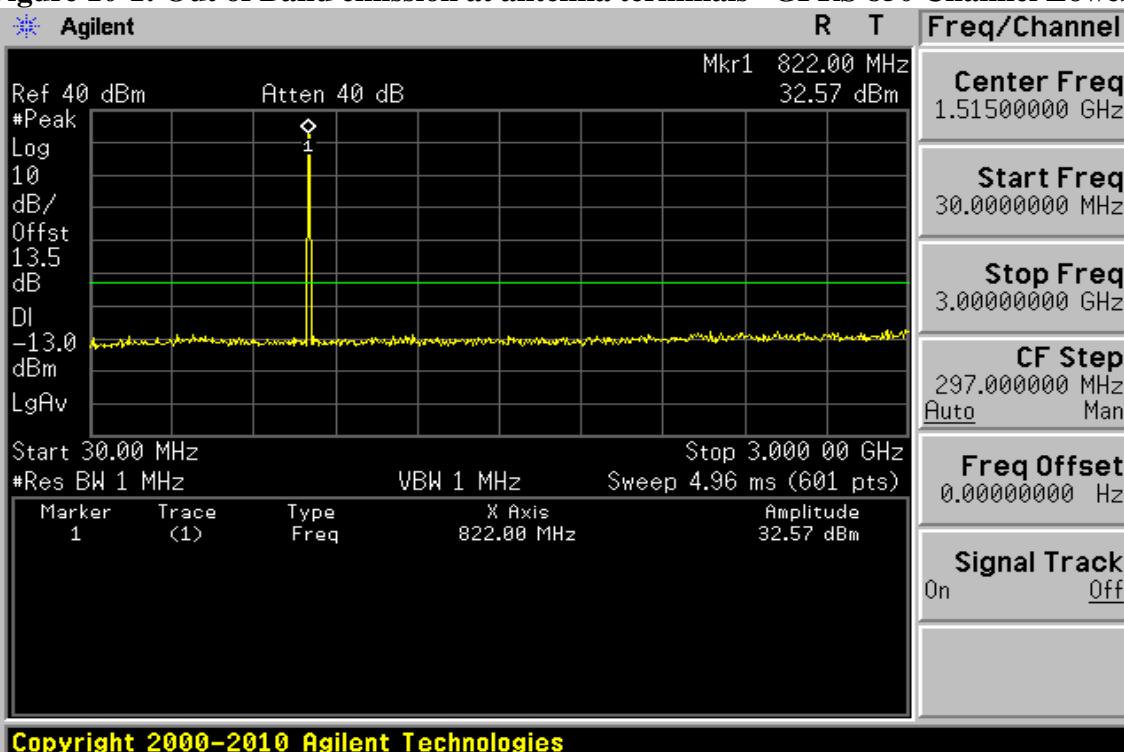
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10.5. Measurement Result:

Figure 10-1: Out of Band emission at antenna terminals– GPRS 850 Channel Lowest

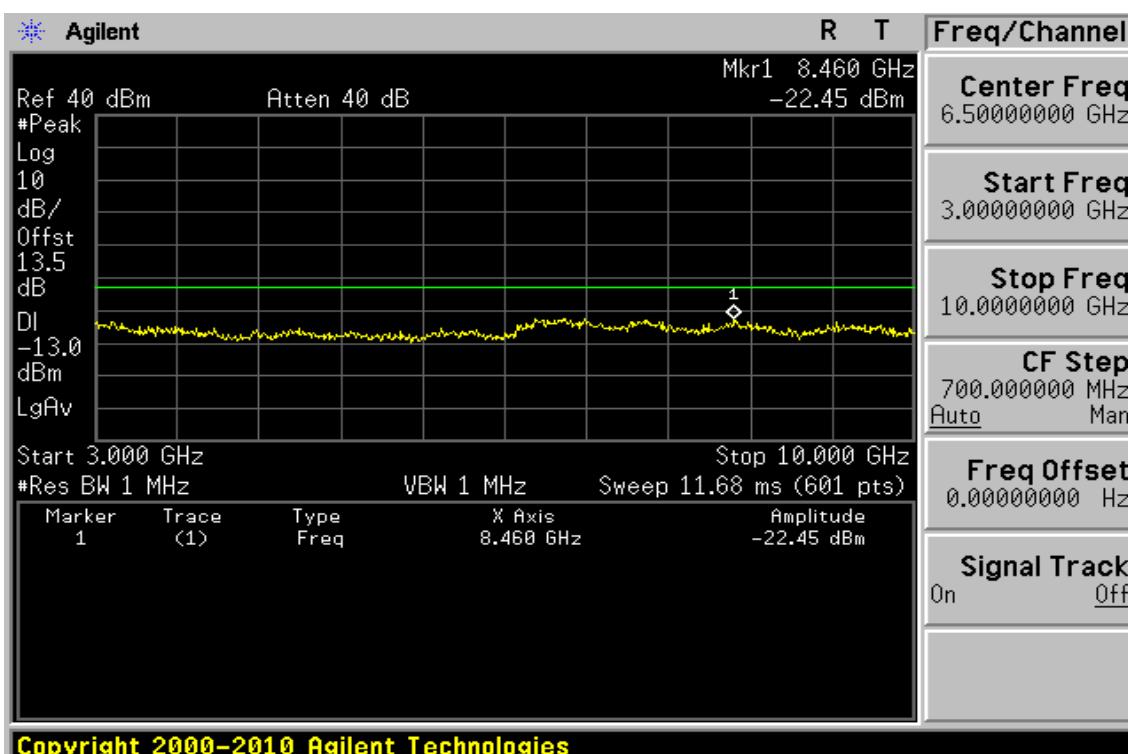
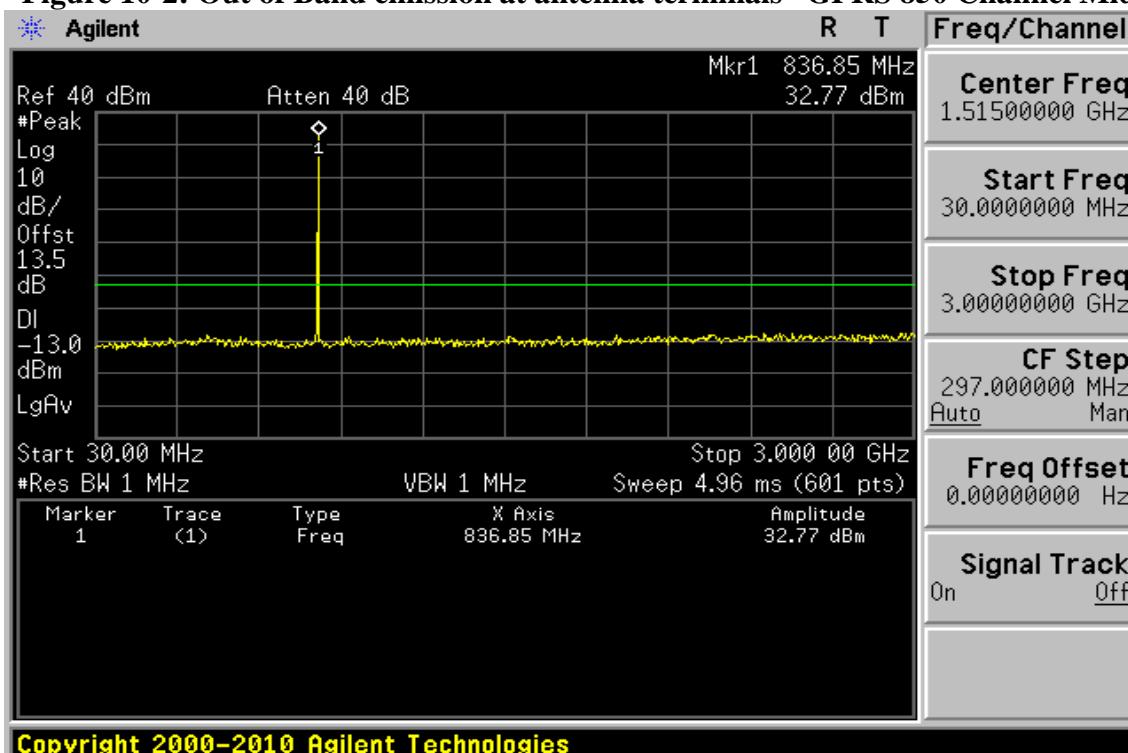


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Figure 10-2: Out of Band emission at antenna terminals –GPRS 850 Channel Mid

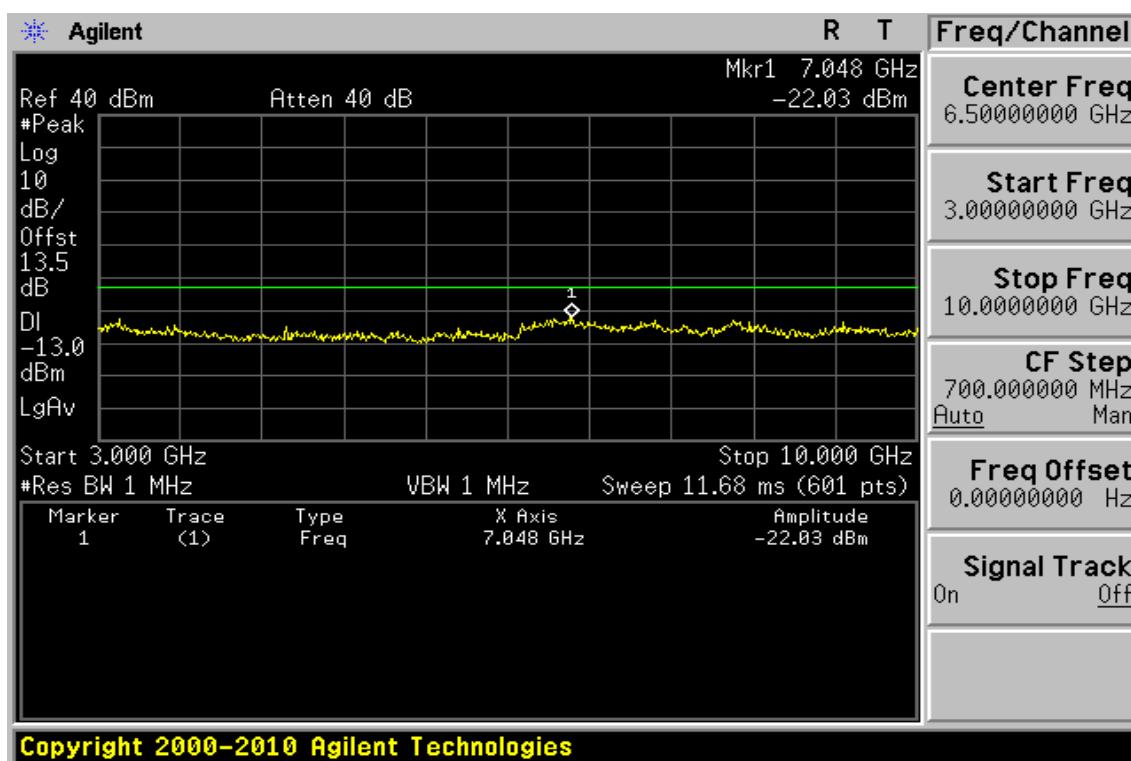
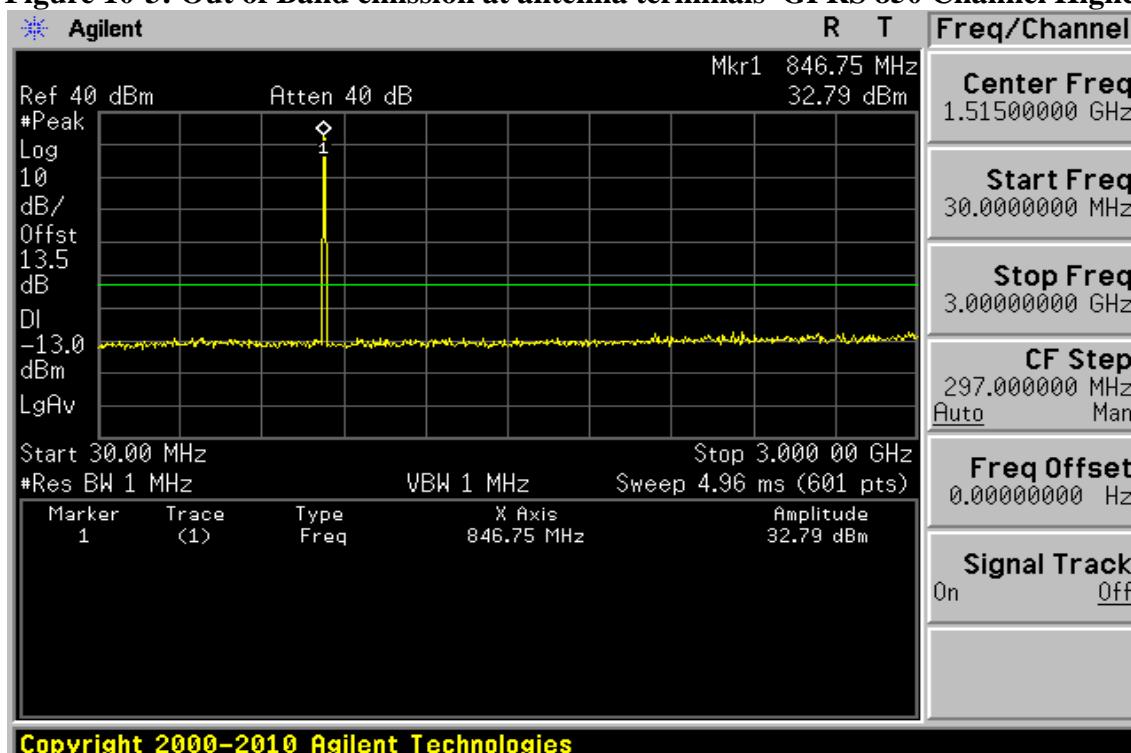


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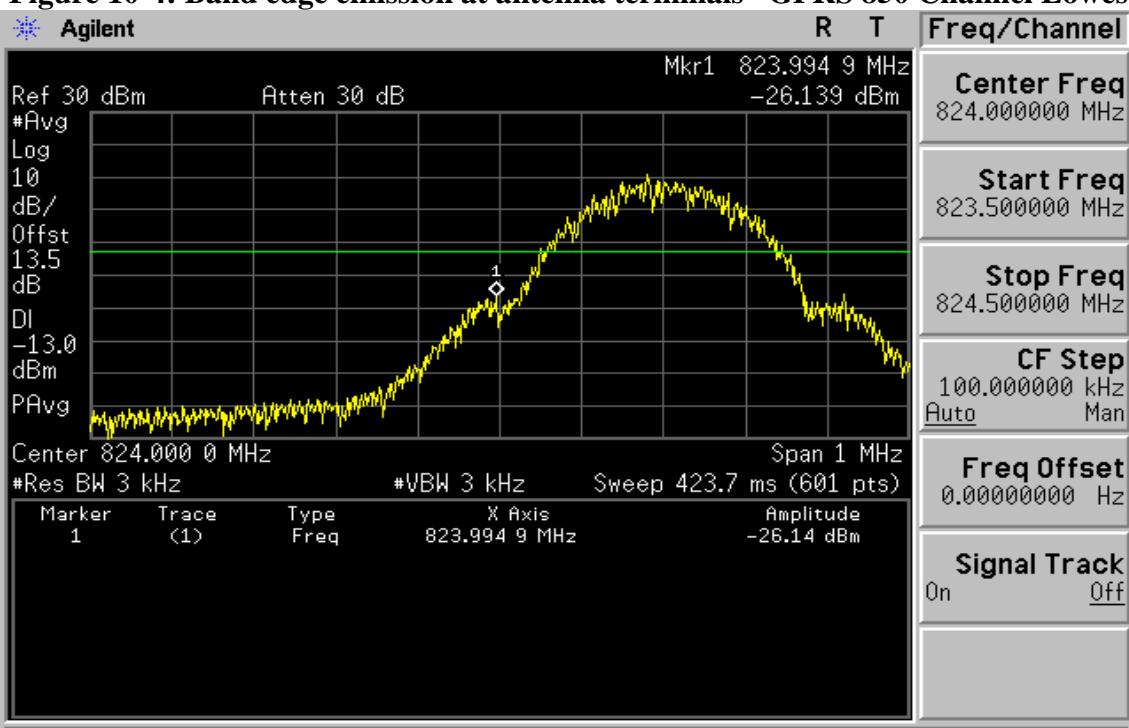
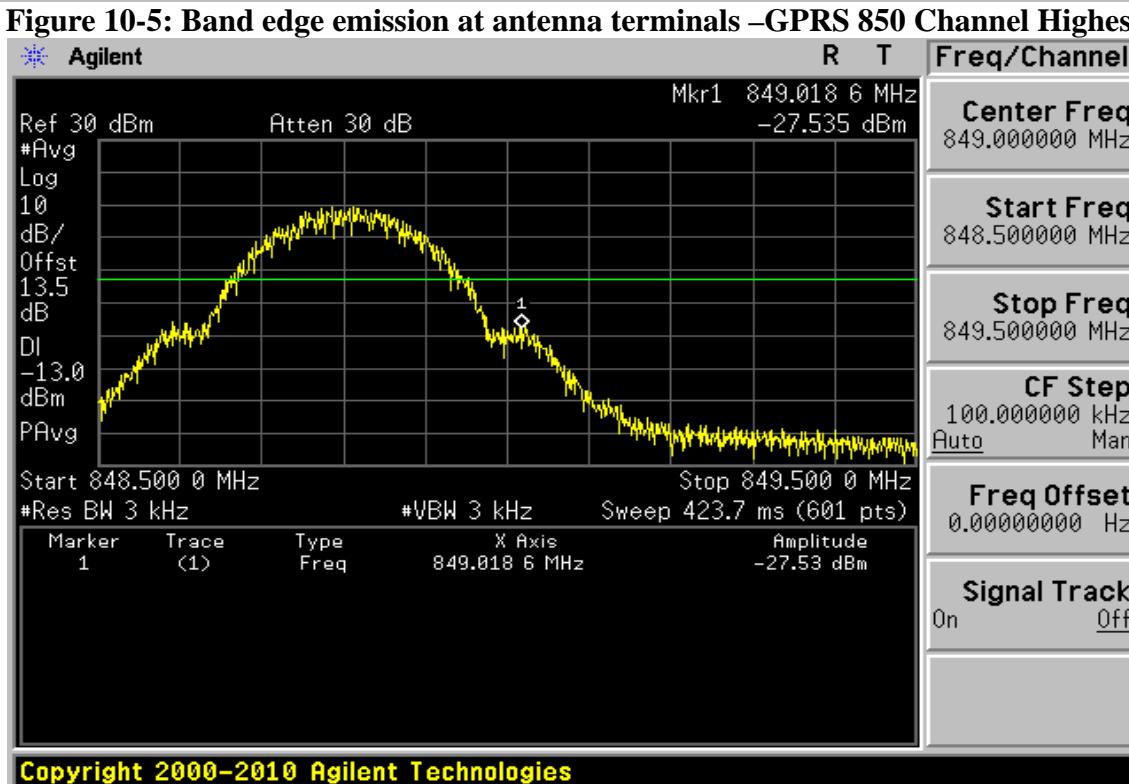
Figure 10-3: Out of Band emission at antenna terminals—GPRS 850 Channel Highest



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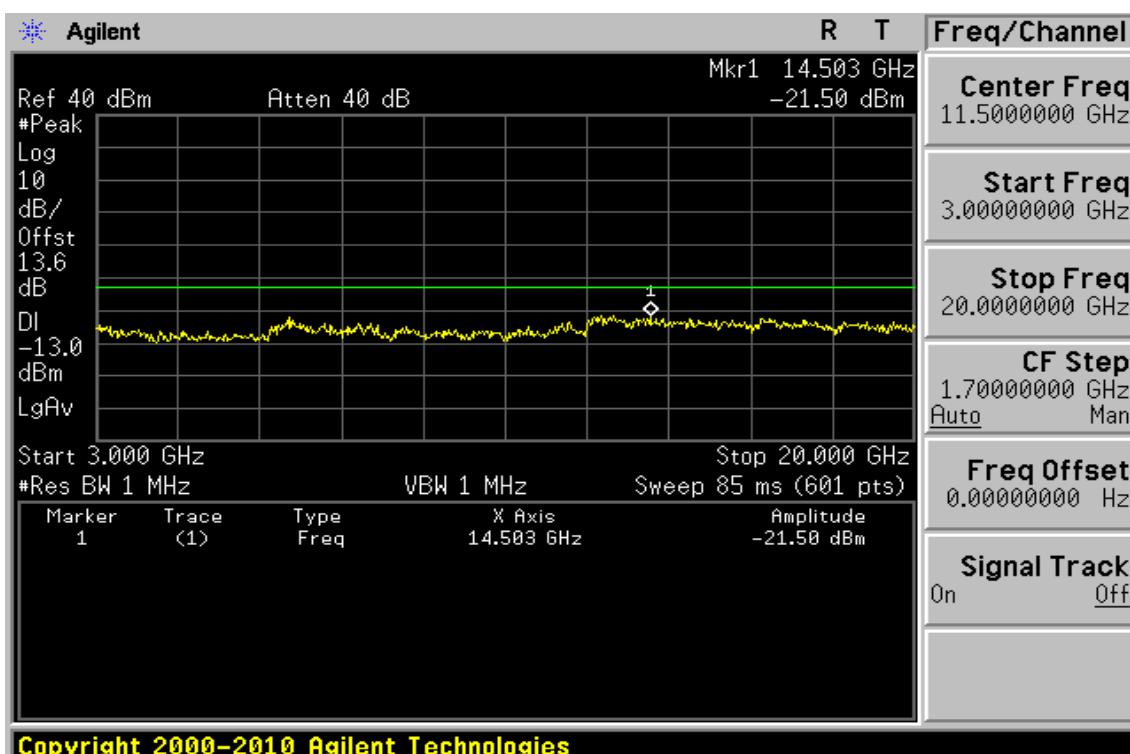
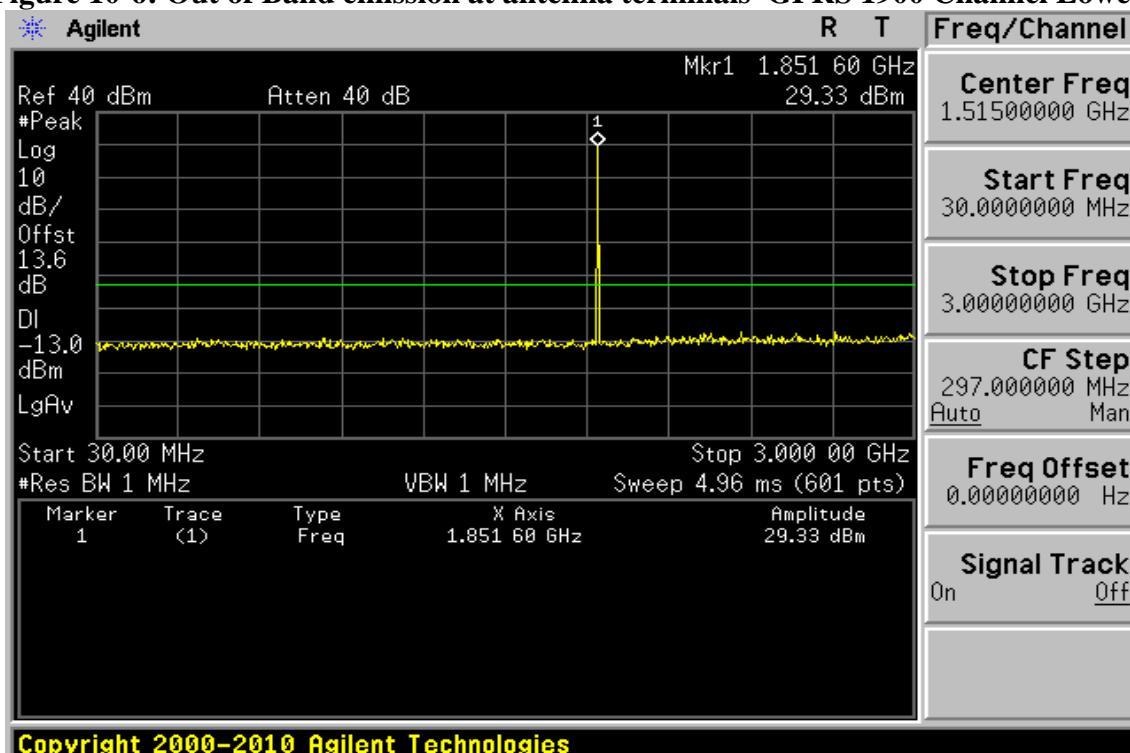
Figure 10-4: Band edge emission at antenna terminals –GPRS 850 Channel Lowest

Figure 10-5: Band edge emission at antenna terminals –GPRS 850 Channel Highest


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Figure 10-6: Out of Band emission at antenna terminals—GPRS 1900 Channel Lowest

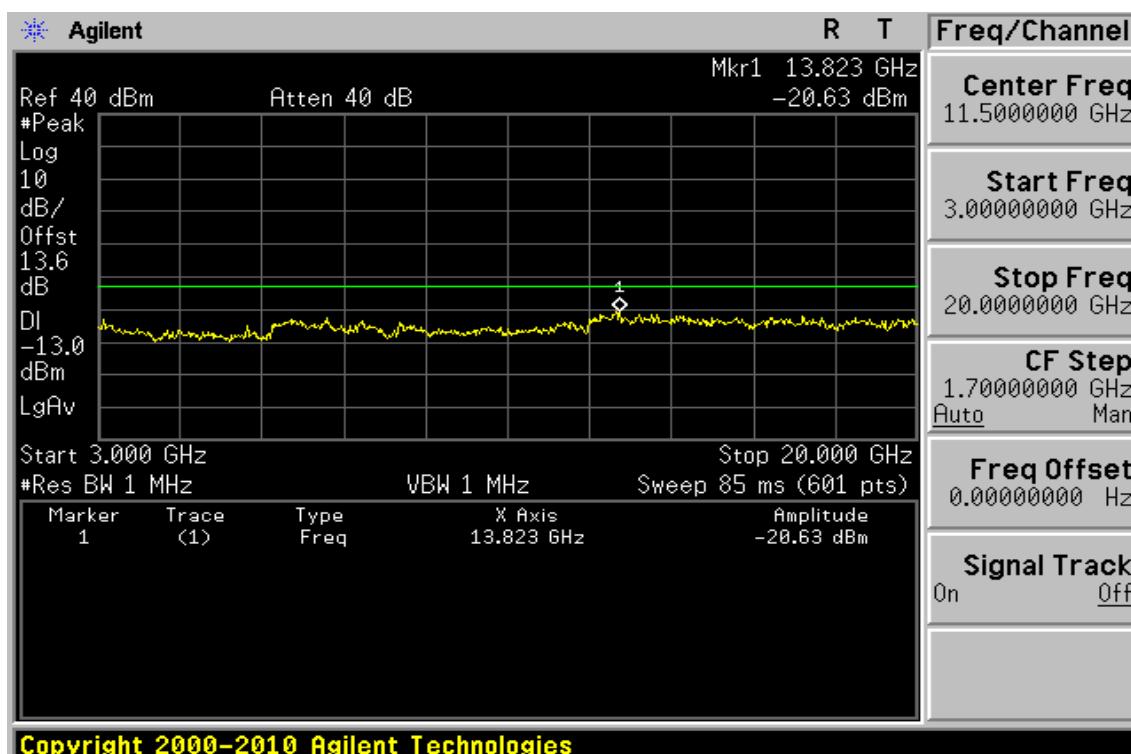
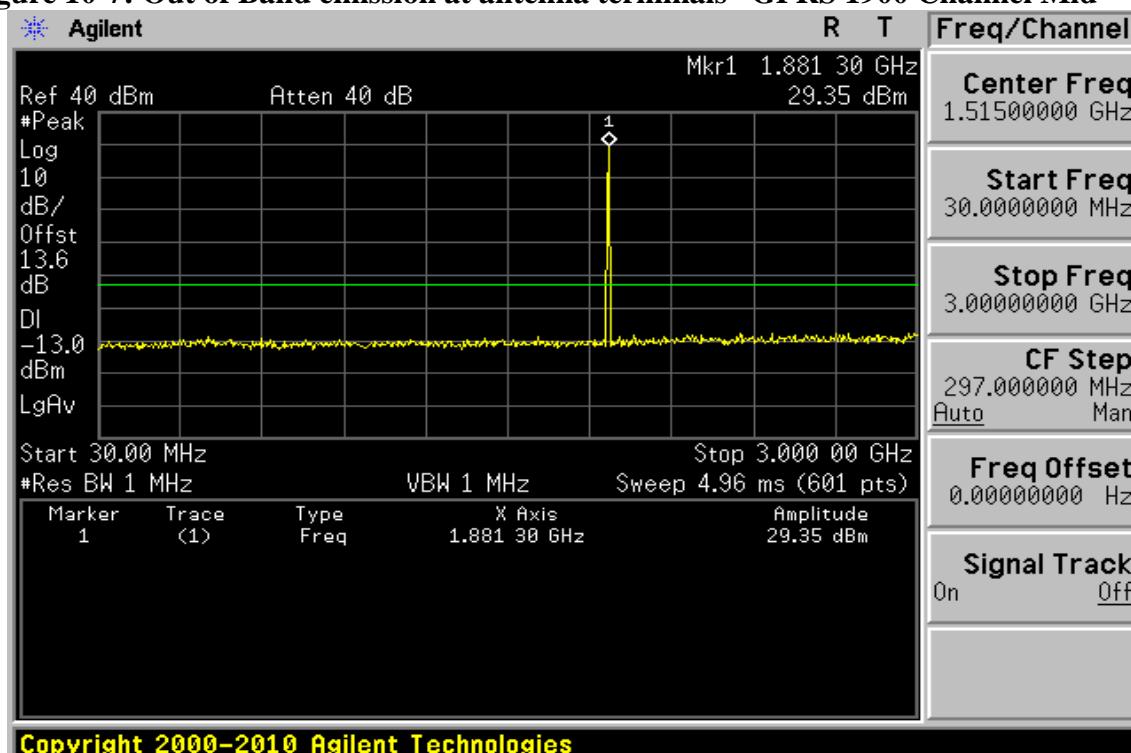


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Figure 10-7: Out of Band emission at antenna terminals –GPRS 1900 Channel Mid

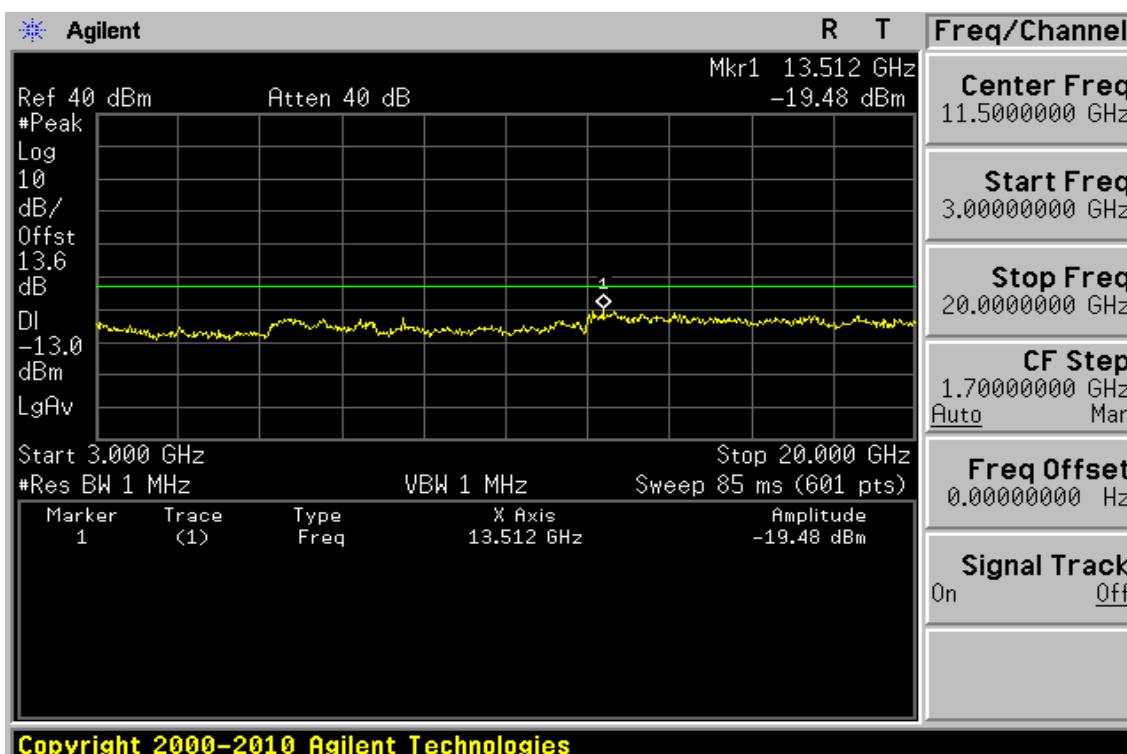
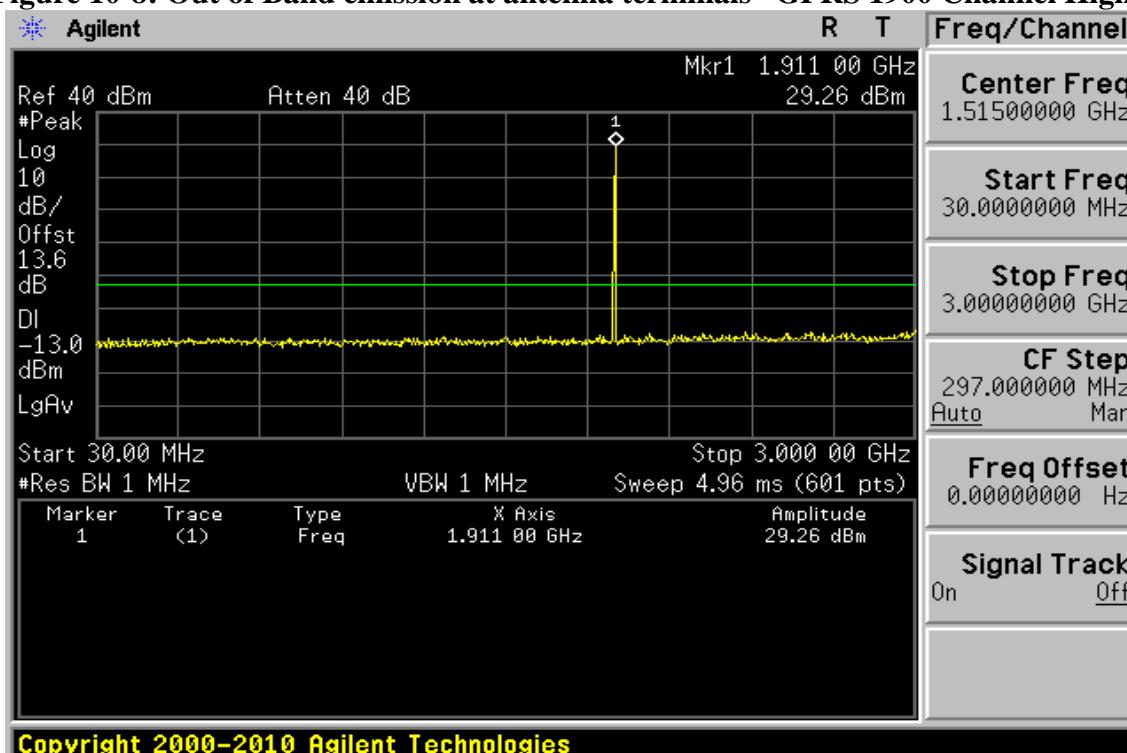


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Figure 10-8: Out of Band emission at antenna terminals –GPRS 1900 Channel Highest



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Figure 10-9: Bad edge emission at antenna terminals –GPRS 1900 Channel Lowest

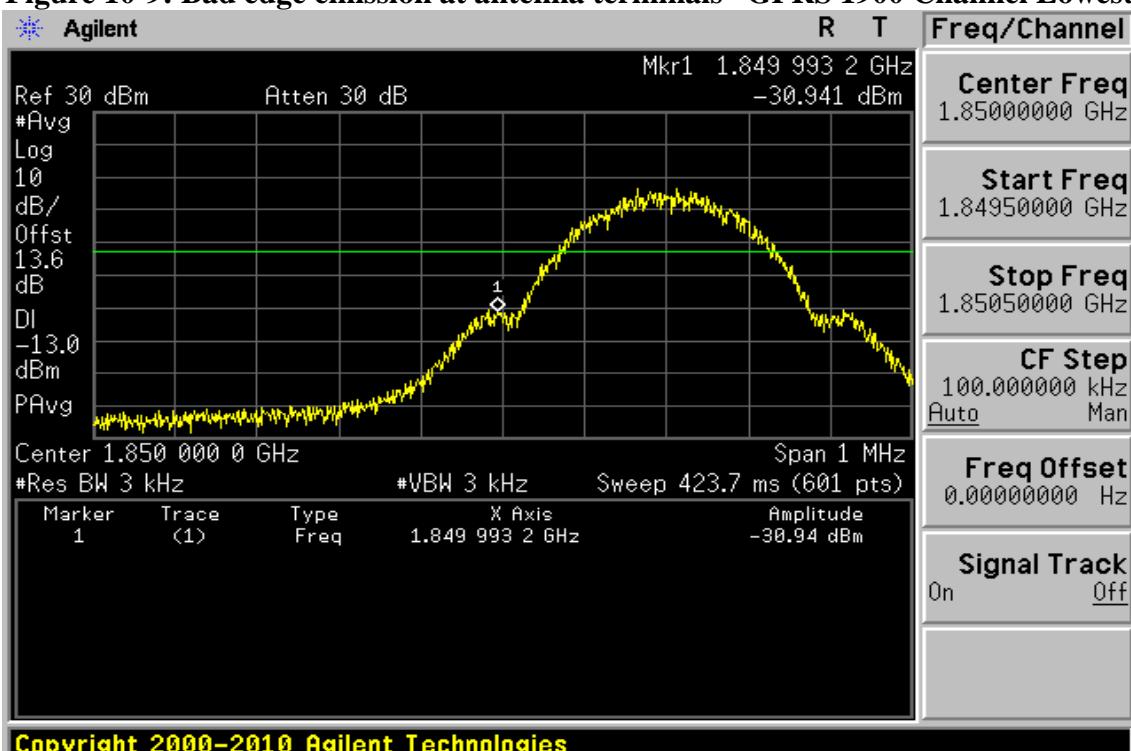
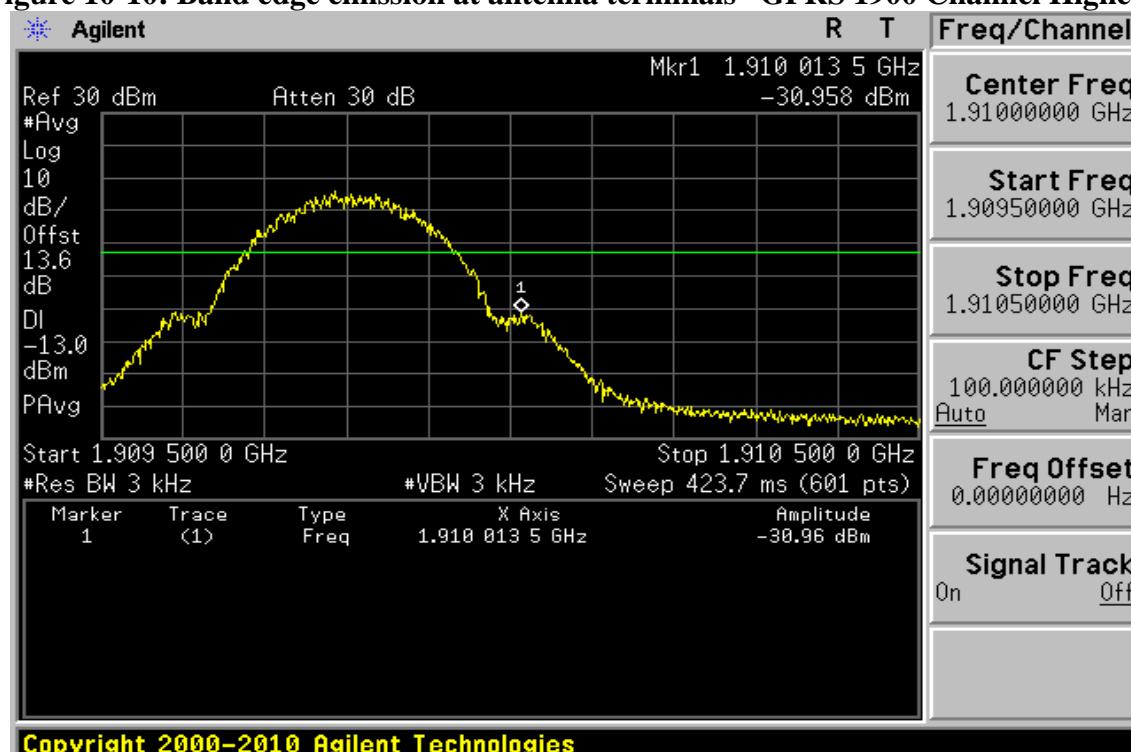


Figure 10-10: Band edge emission at antenna terminals –GPRS 1900 Channel Highest

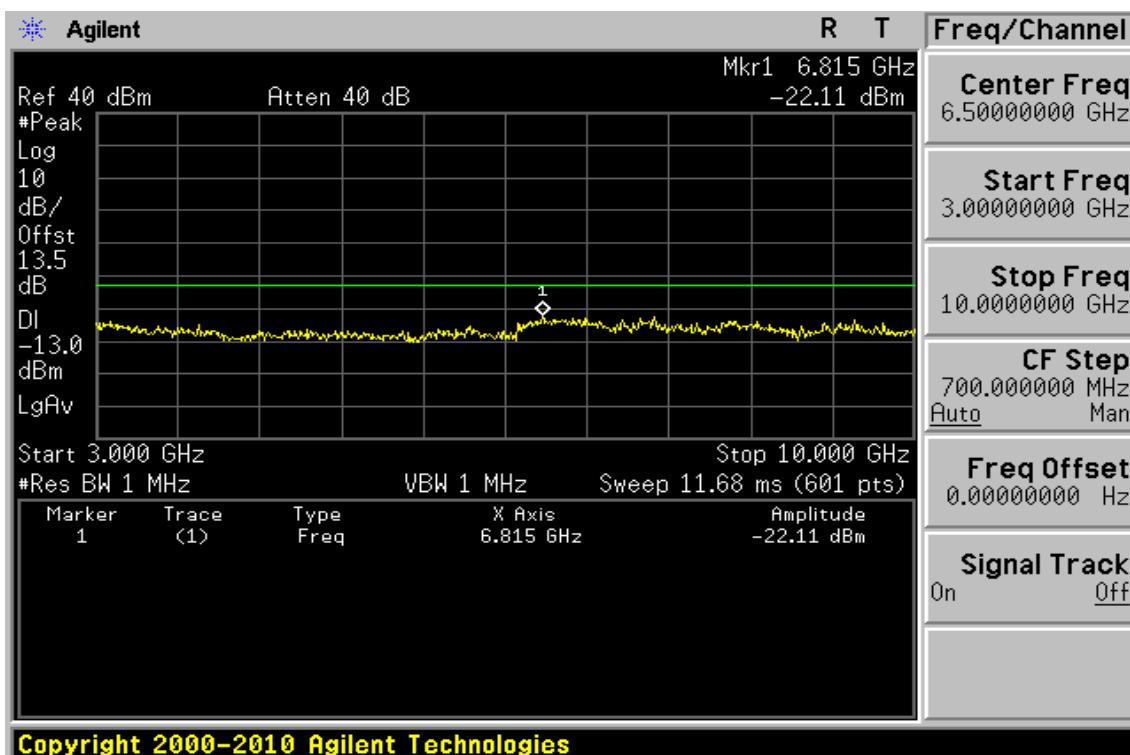
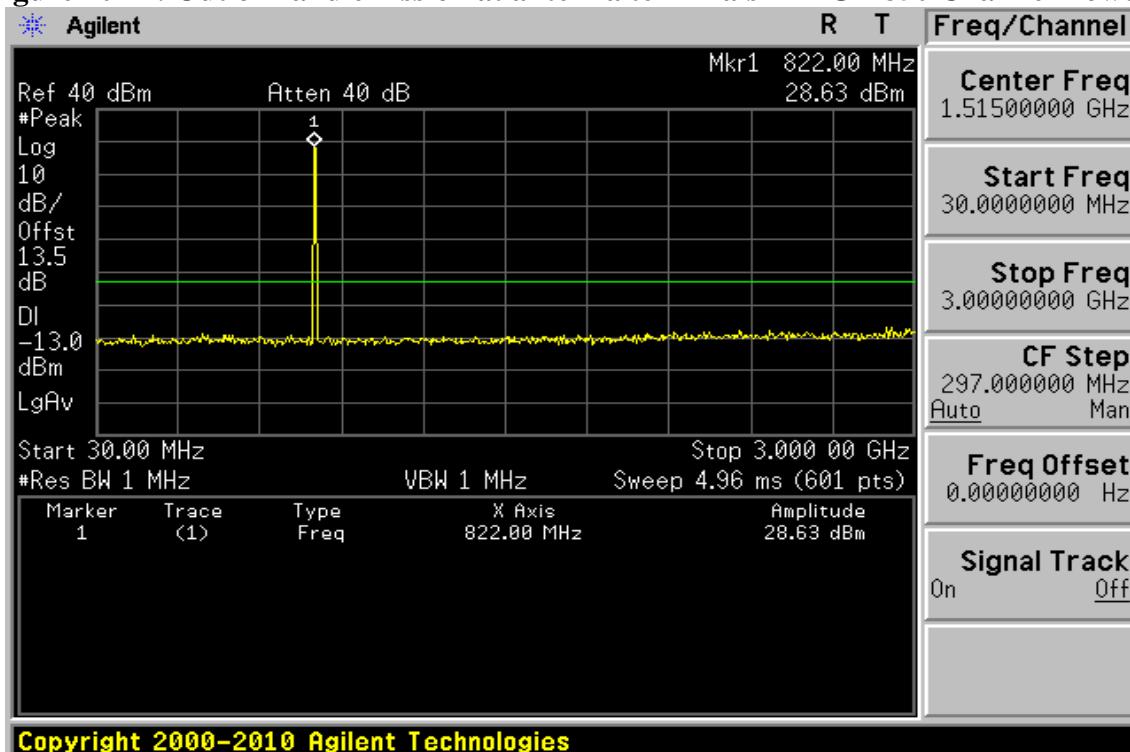


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Figure 10-11: Out of Band emission at antenna terminals—EDGE 850 Channel Lowest

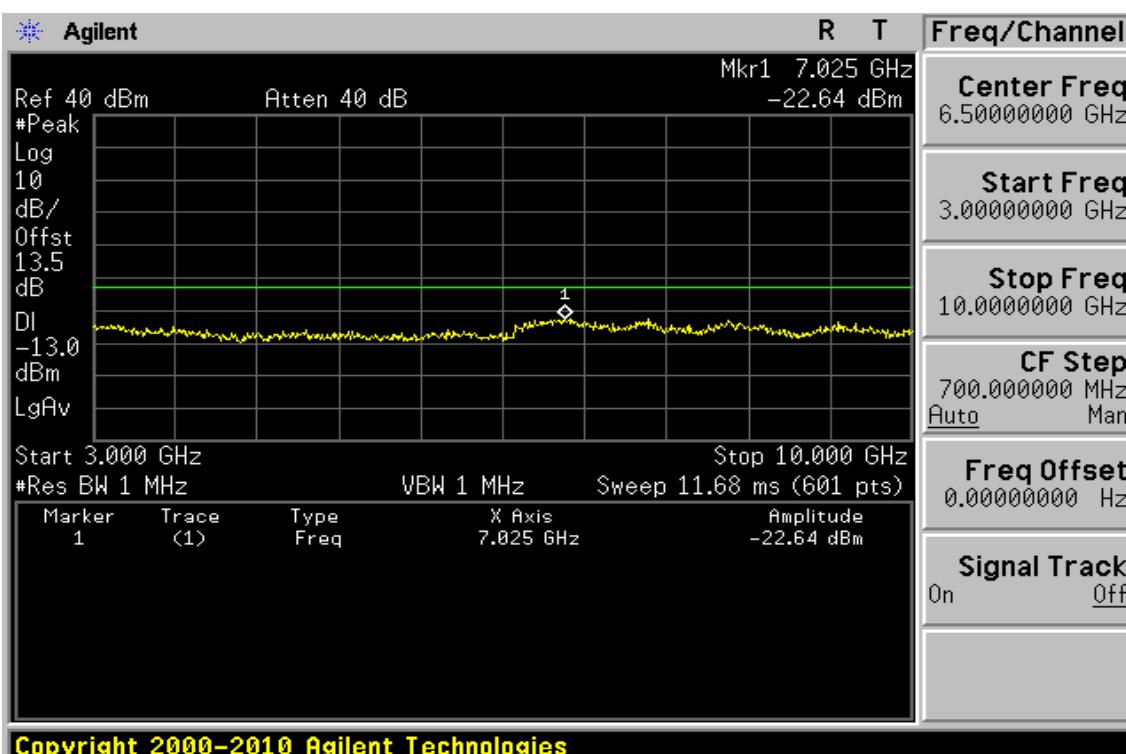
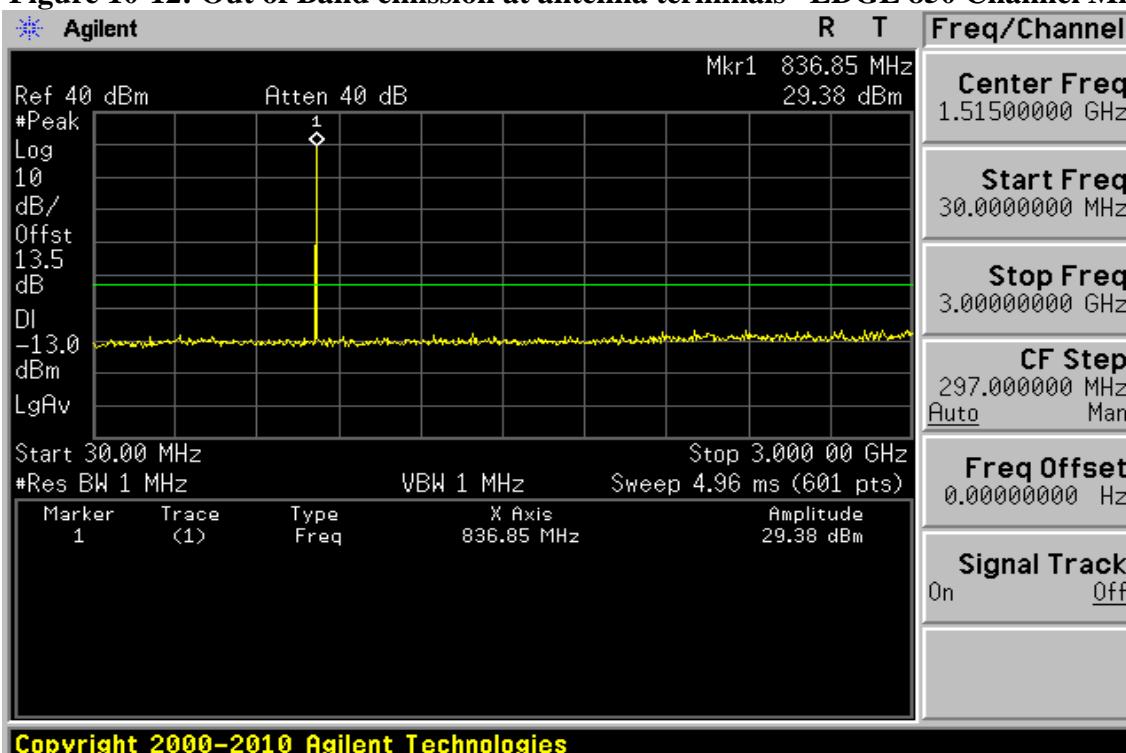


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Figure 10-12: Out of Band emission at antenna terminals –EDGE 850 Channel Mid

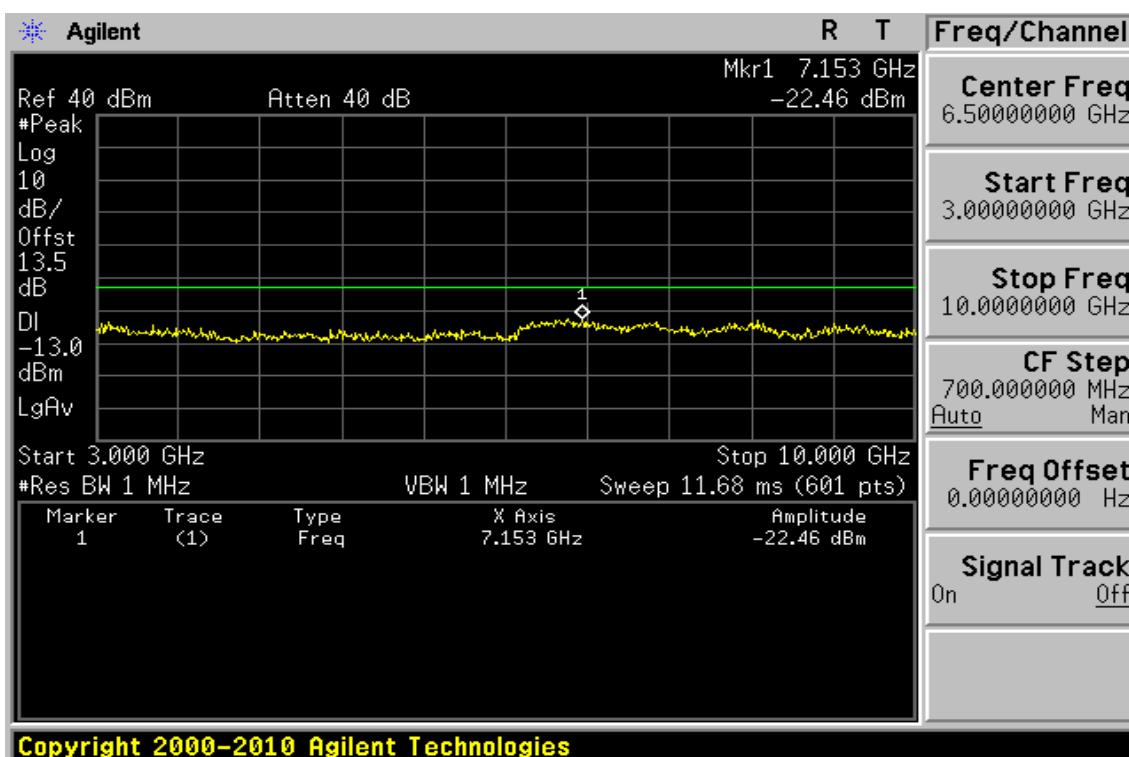
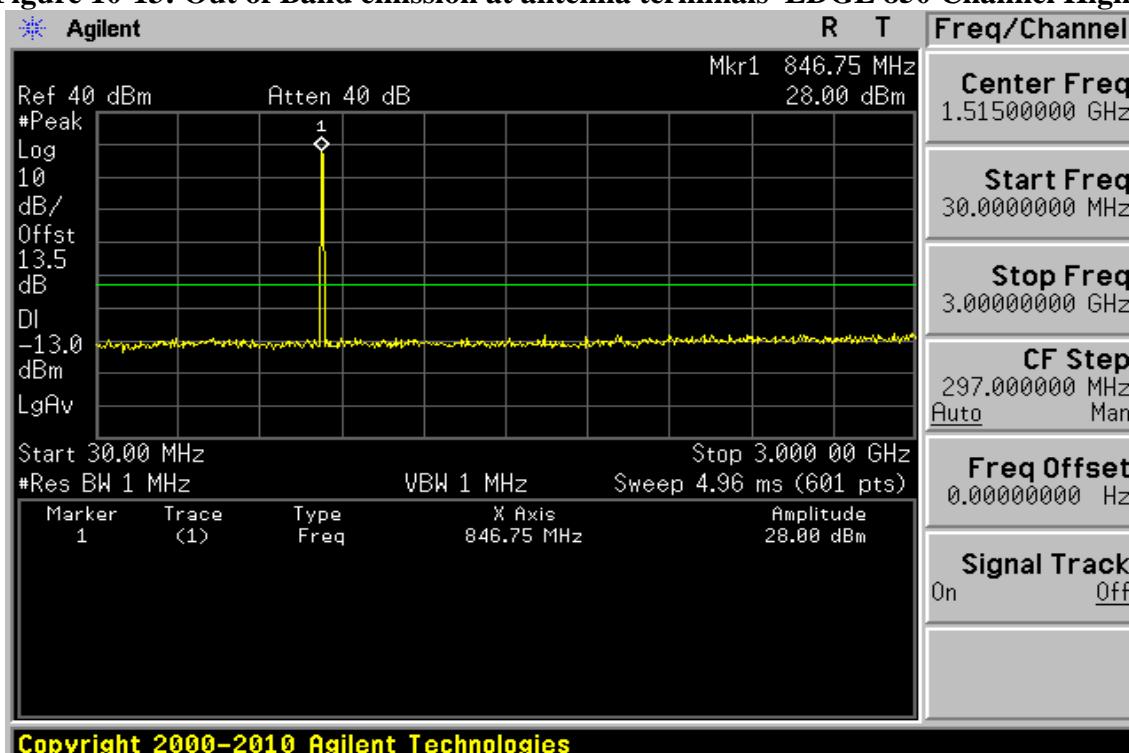


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Figure 10-13: Out of Band emission at antenna terminals—EDGE 850 Channel Highest



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Figure 10-14: Band edge emission at antenna terminals –EDGE 850 Channel Lowest

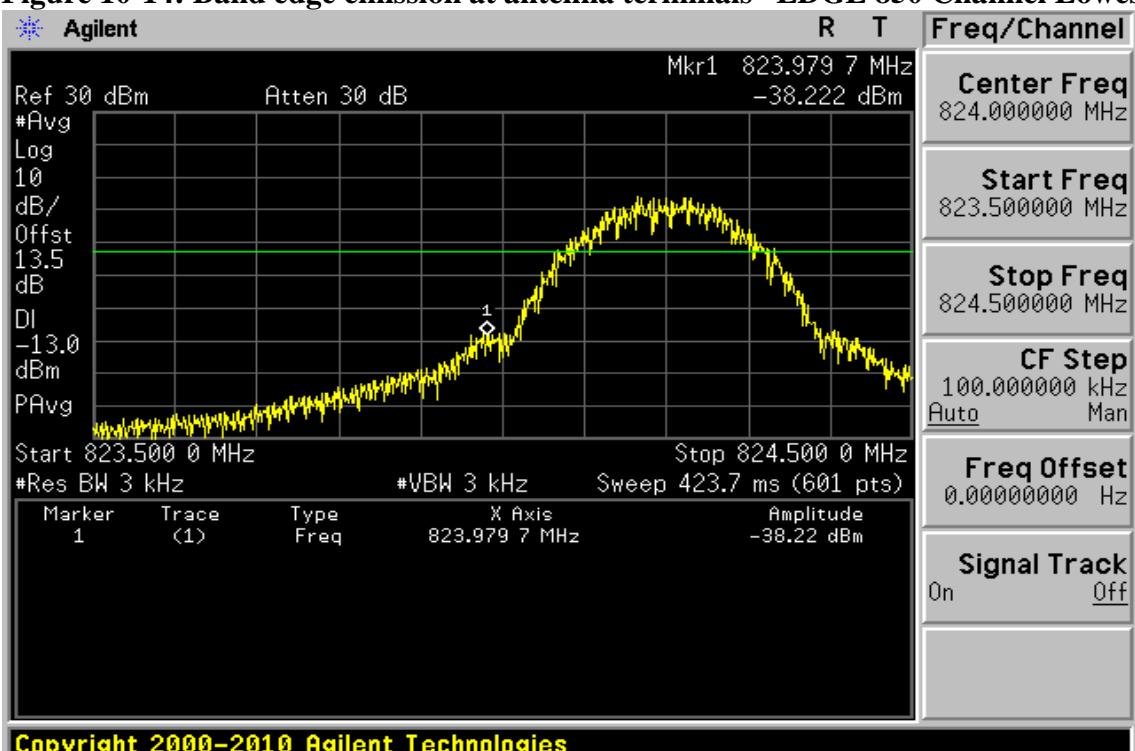
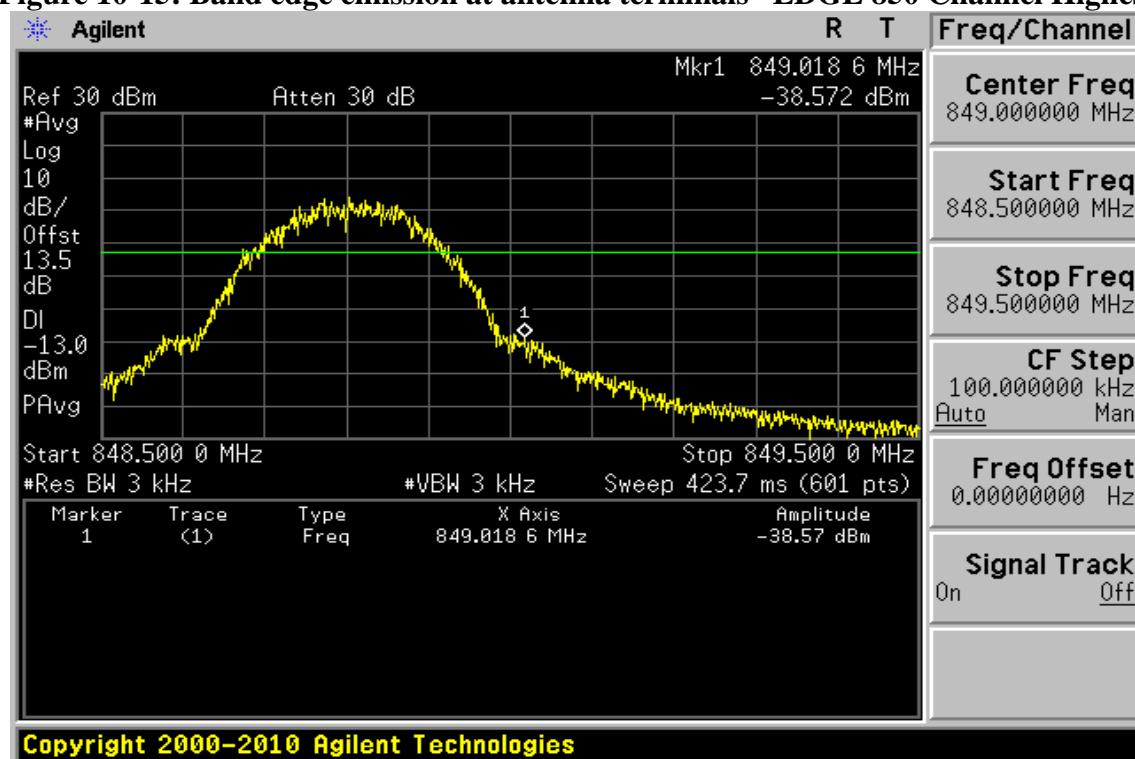


Figure 10-15: Band edge emission at antenna terminals –EDGE 850 Channel Highest

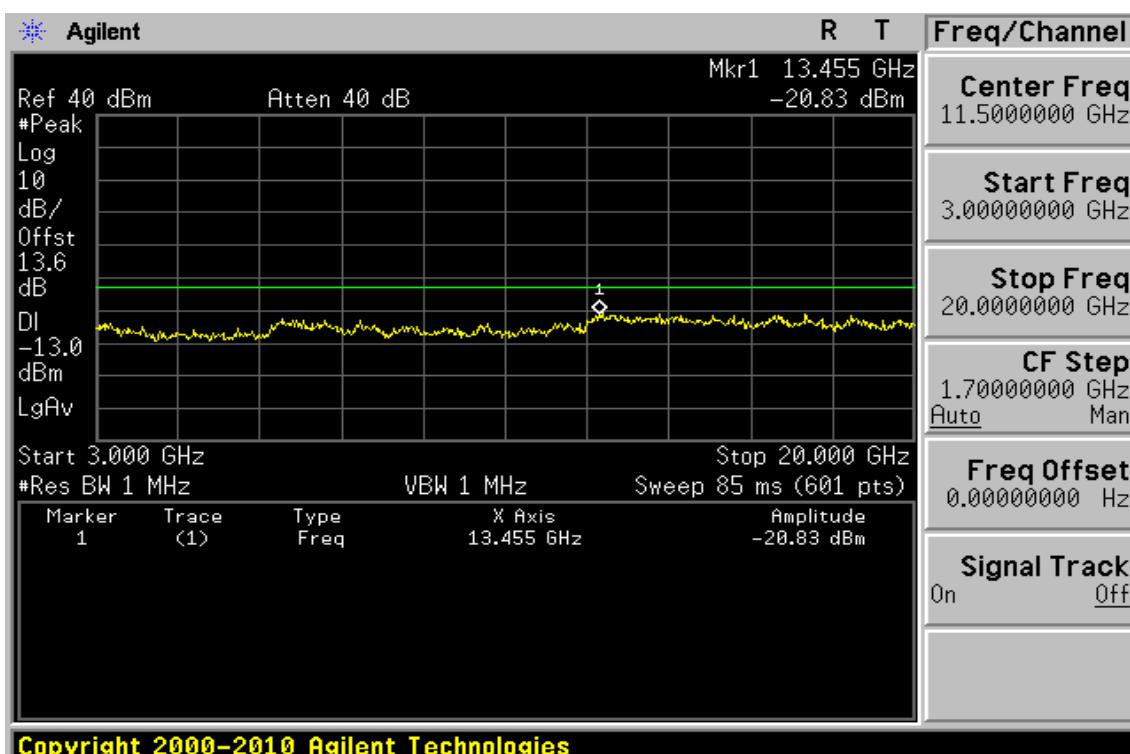
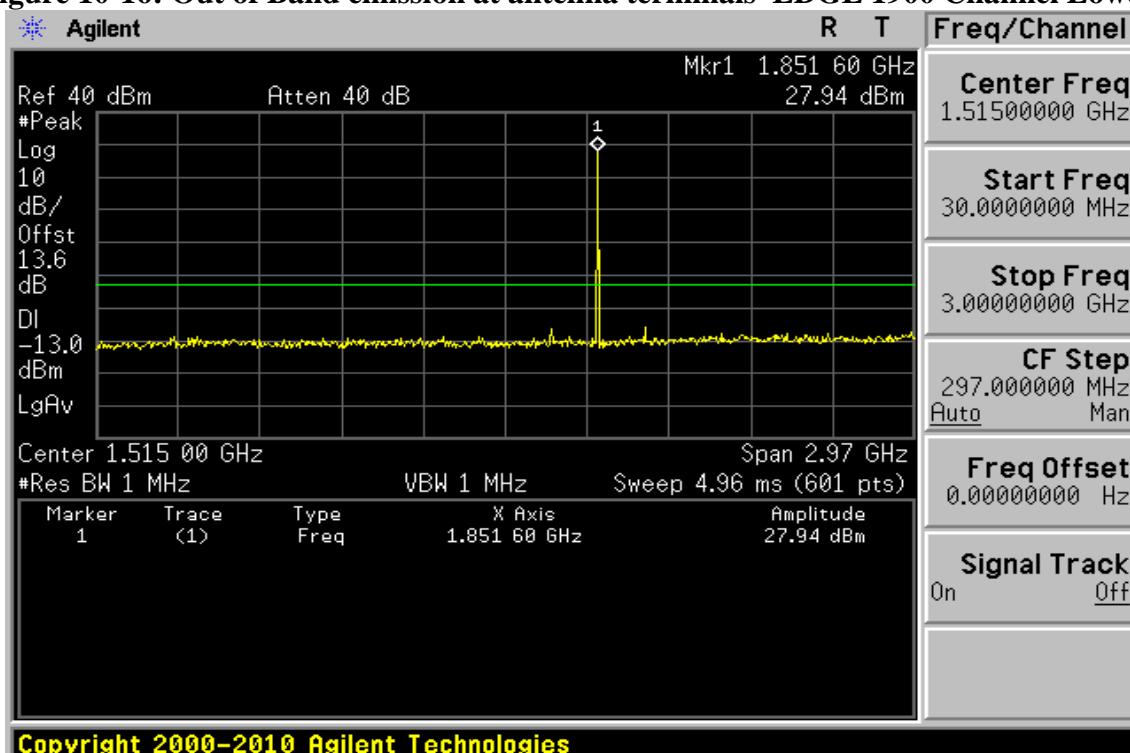


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Figure 10-16: Out of Band emission at antenna terminals—EDGE 1900 Channel Lowest

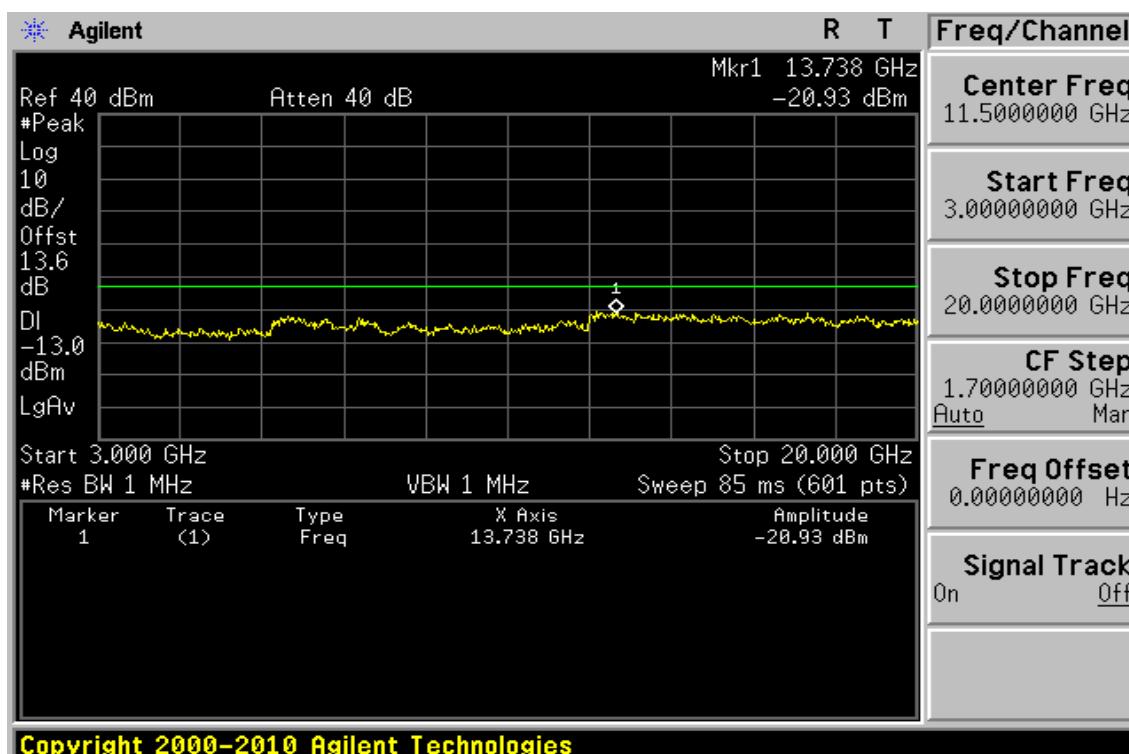
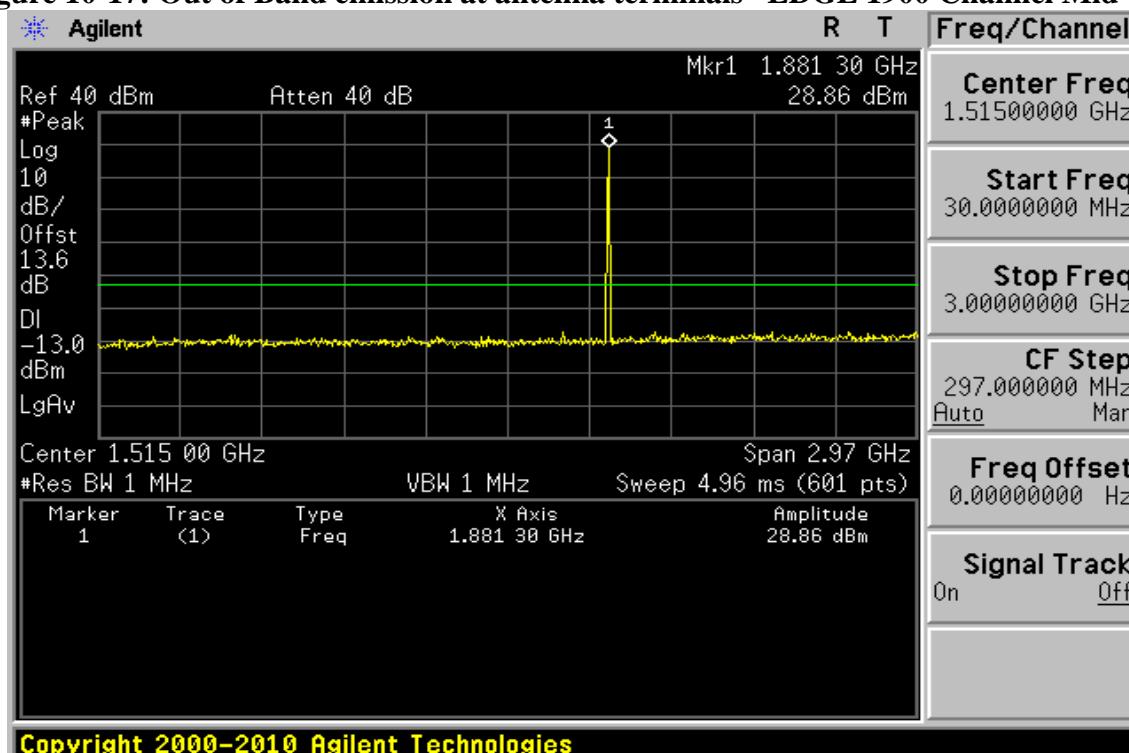


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Figure 10-17: Out of Band emission at antenna terminals –EDGE 1900 Channel Mid

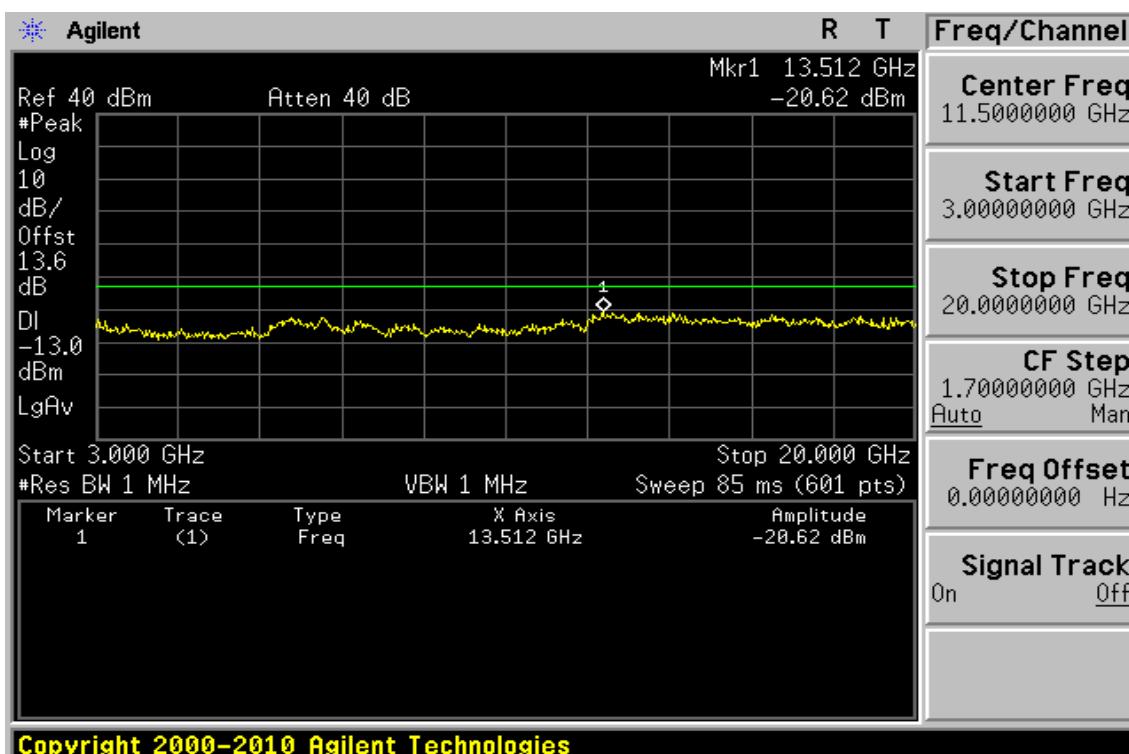
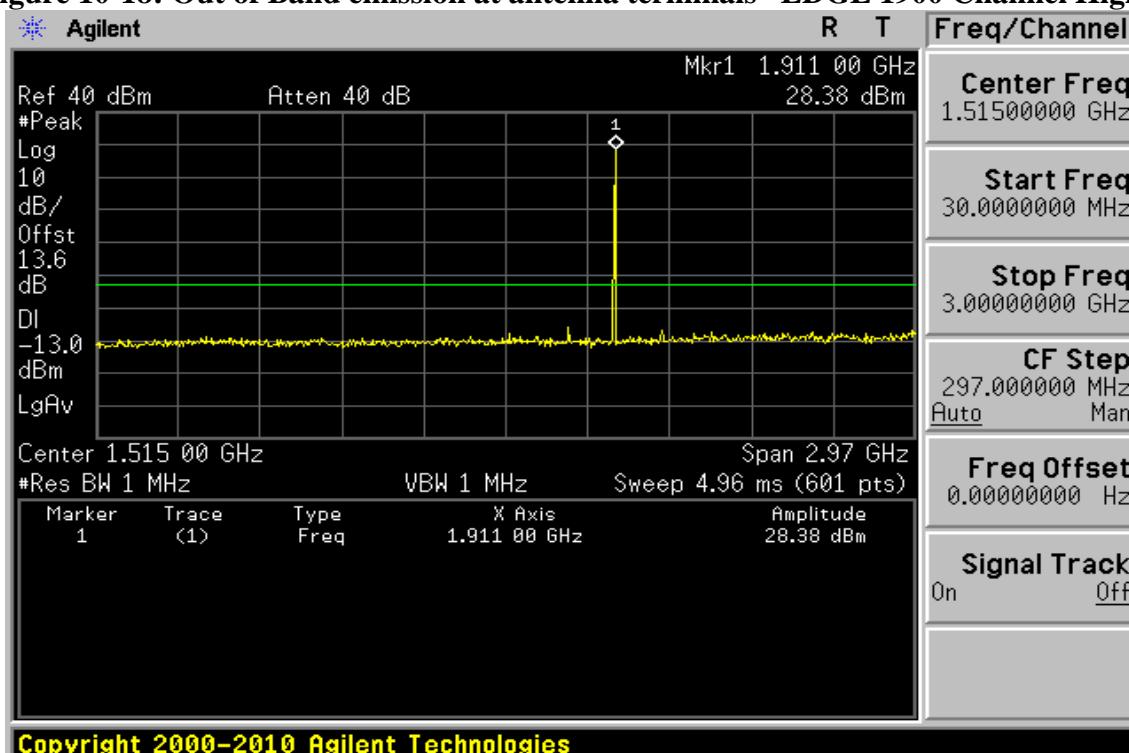


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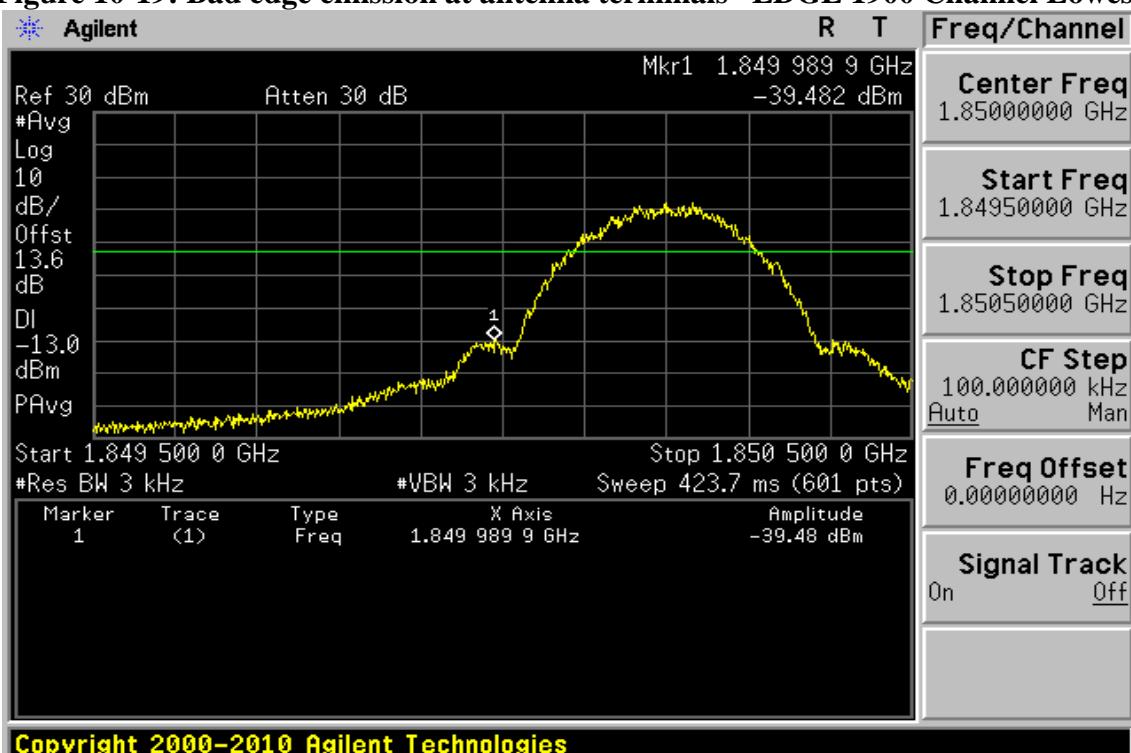
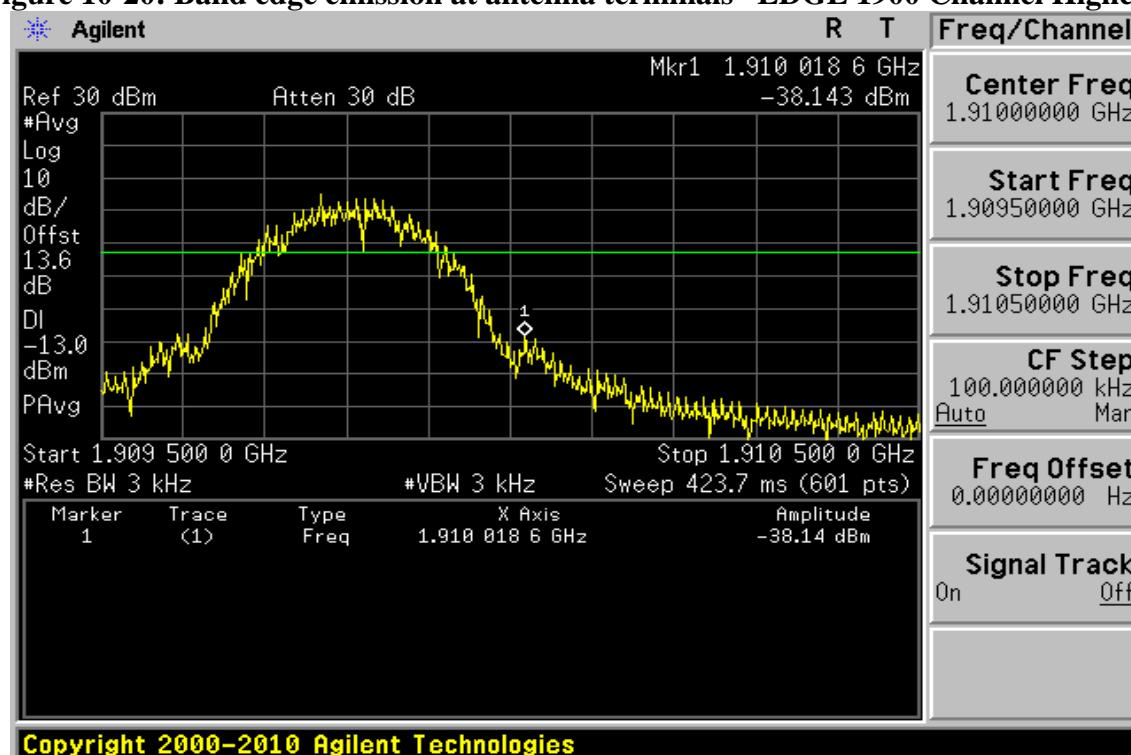
Figure 10-18: Out of Band emission at antenna terminals –EDGE 1900 Channel Highest



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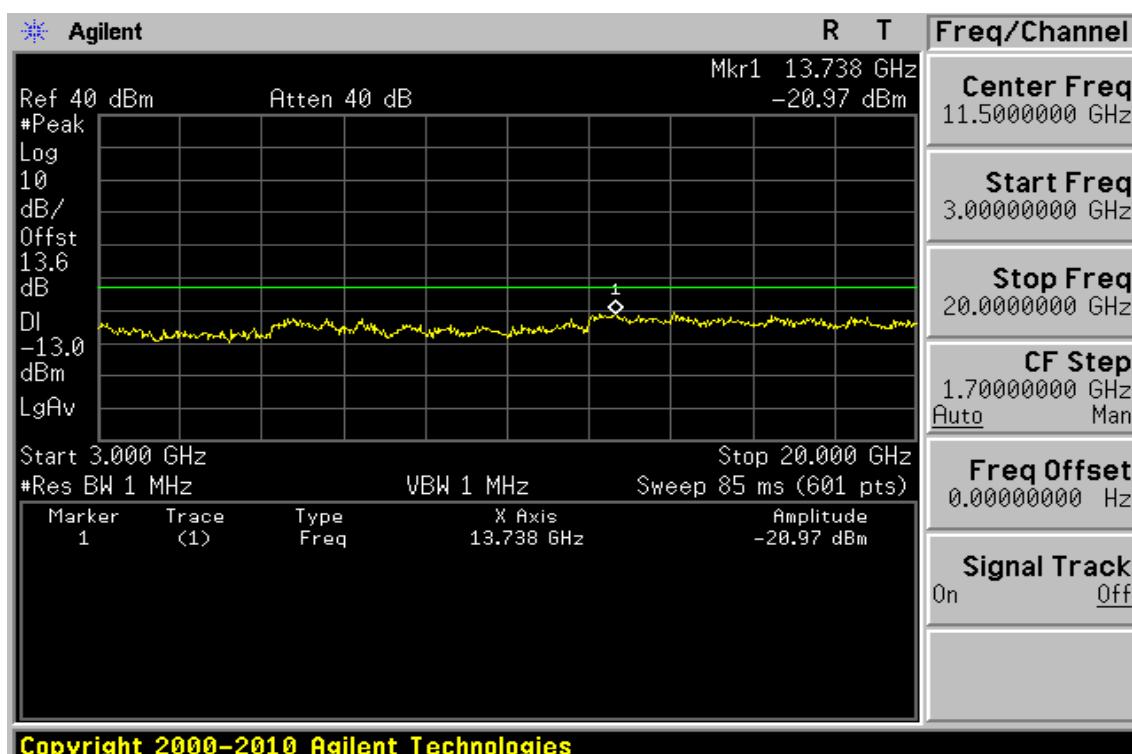
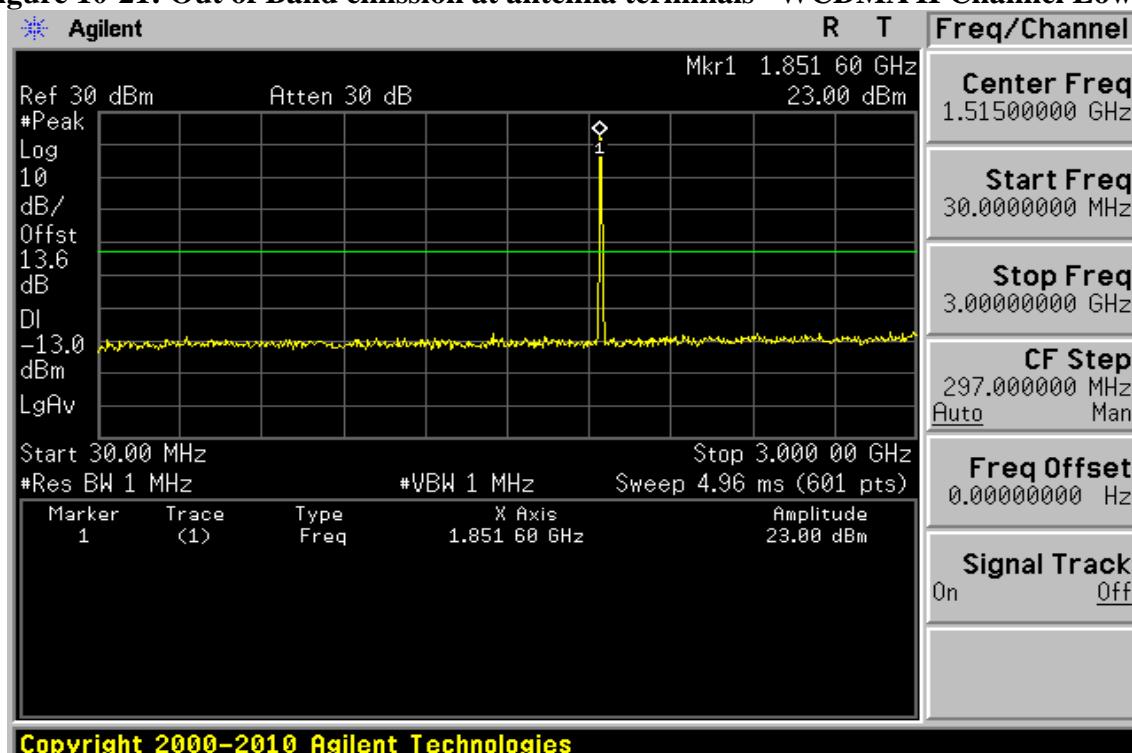
Figure 10-19: Bad edge emission at antenna terminals –EDGE 1900 Channel Lowest

Figure 10-20: Band edge emission at antenna terminals –EDGE 1900 Channel Highest


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Figure 10-21: Out of Band emission at antenna terminals—WCDMA II Channel Lowest

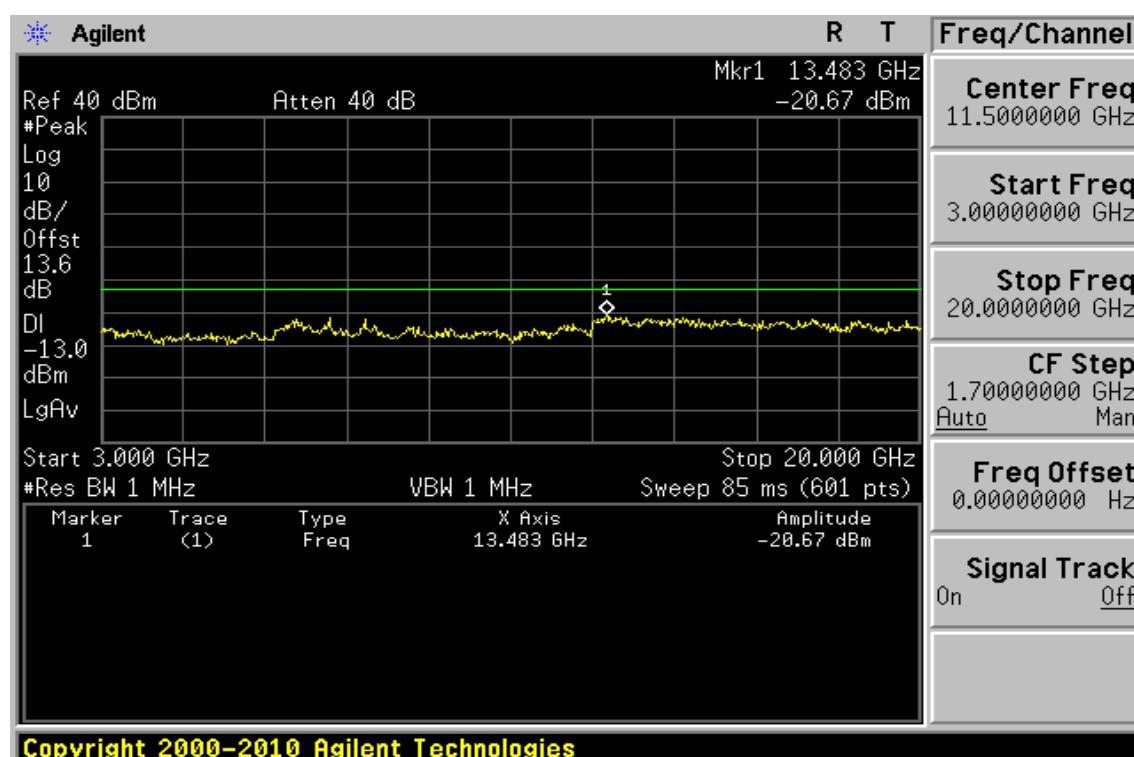
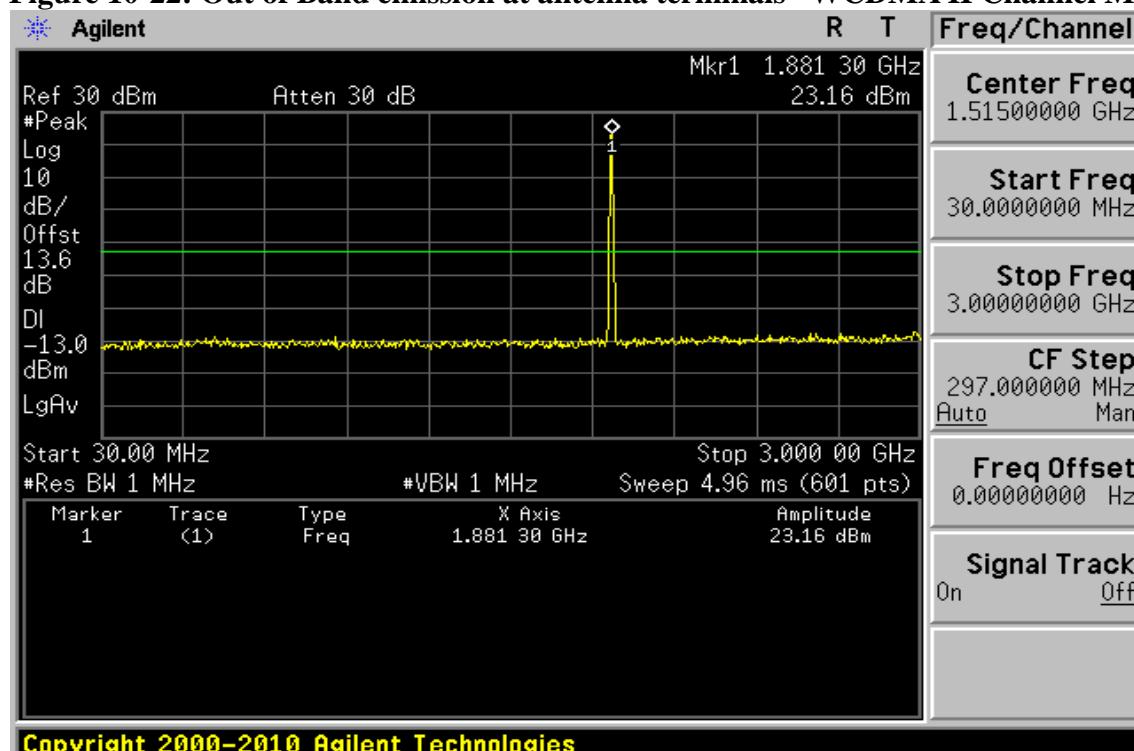


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Figure 10-22: Out of Band emission at antenna terminals –WCDMA II Channel Mid

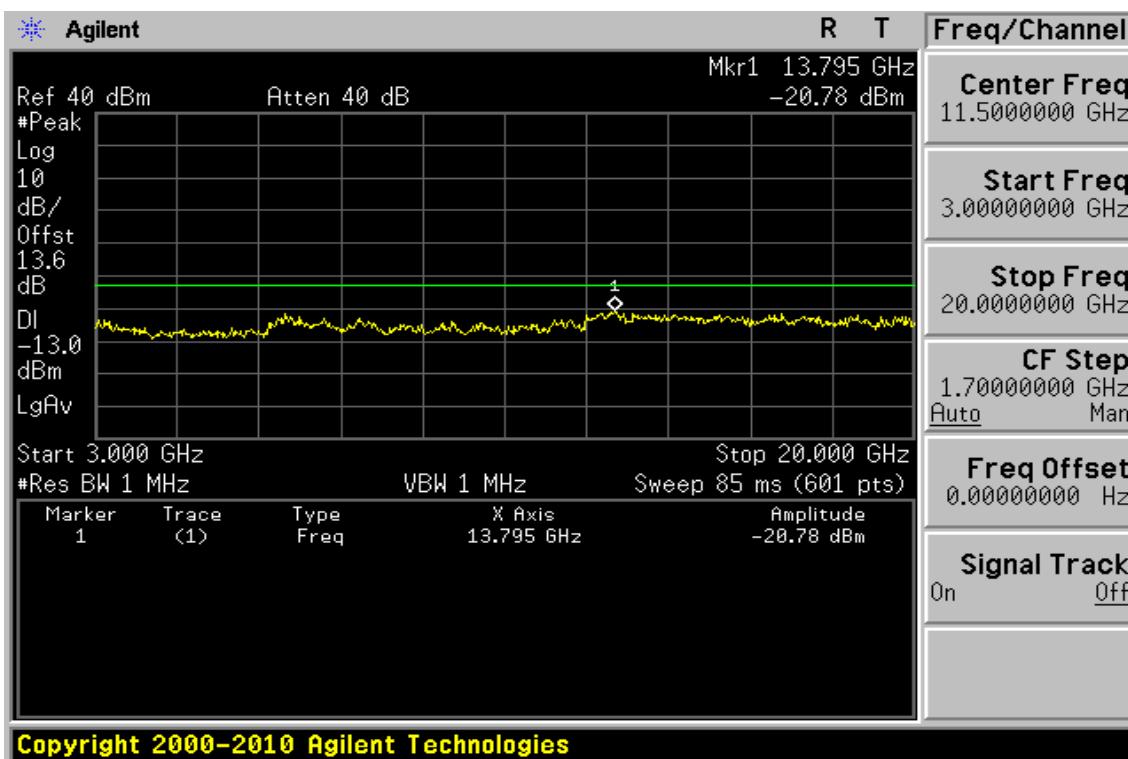
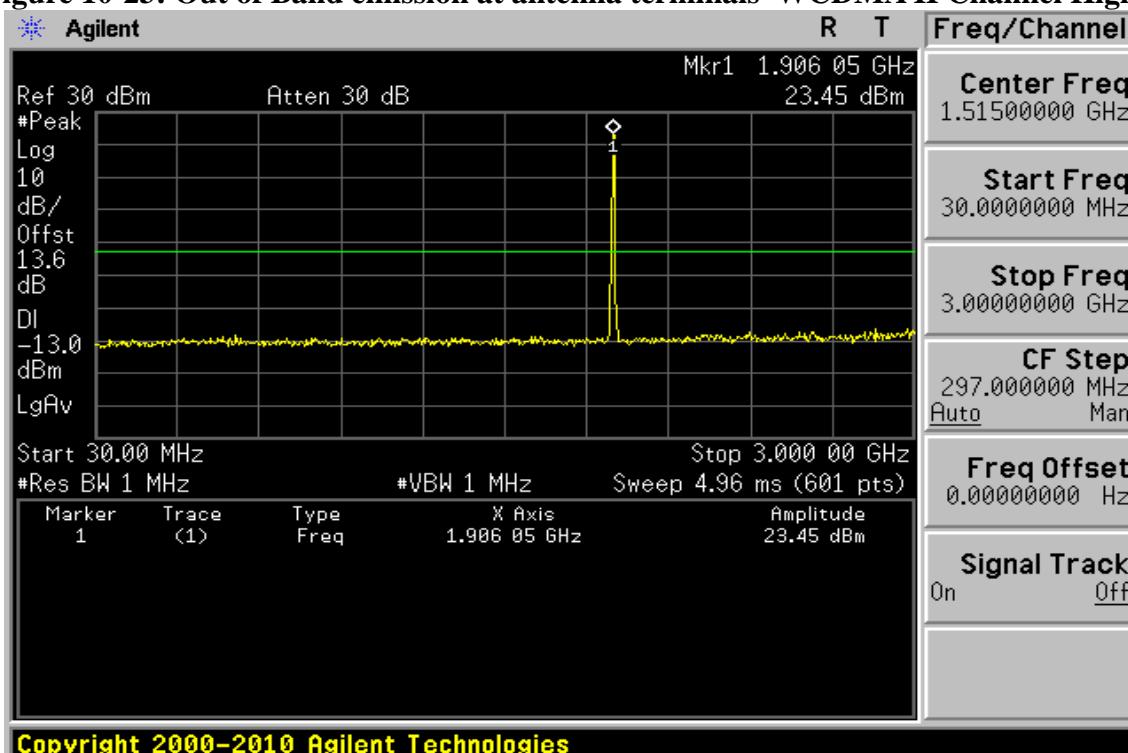


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Figure 10-23: Out of Band emission at antenna terminals—WCDMA II Channel Highest



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Figure 10-24: Bad edge emission at antenna terminals –WCDMA II Channel Lowest

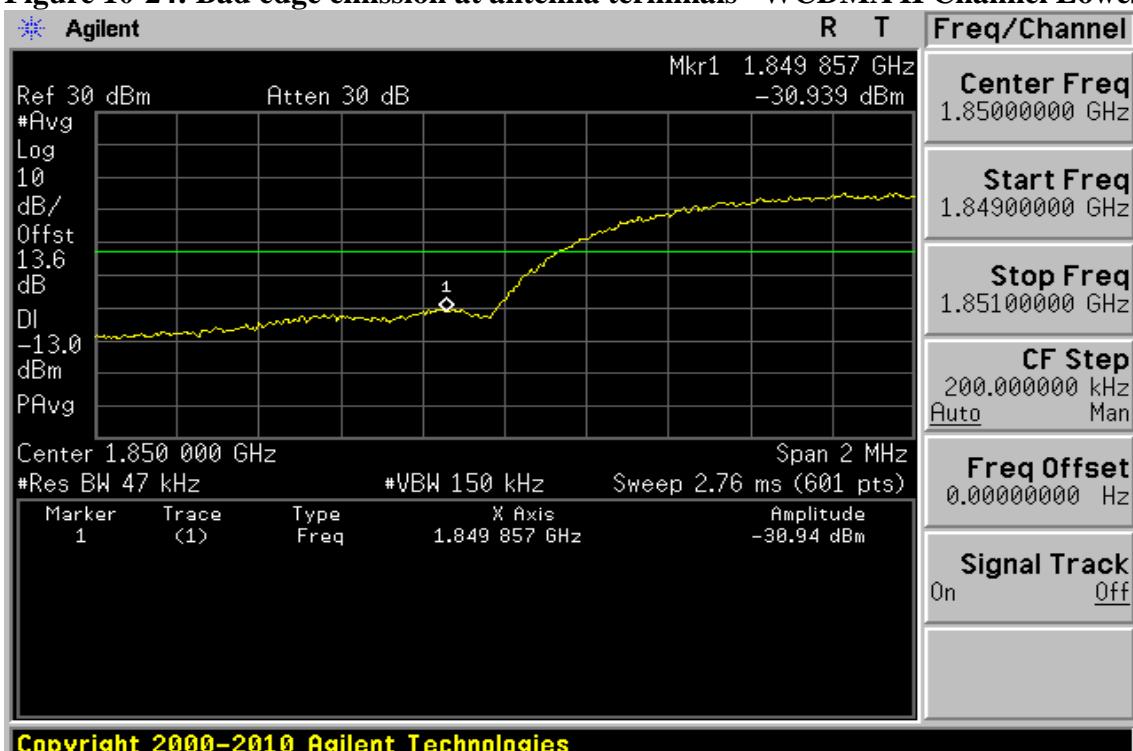


Figure 10-25: Band edge emission at antenna terminals –WCDMA II Channel Highest

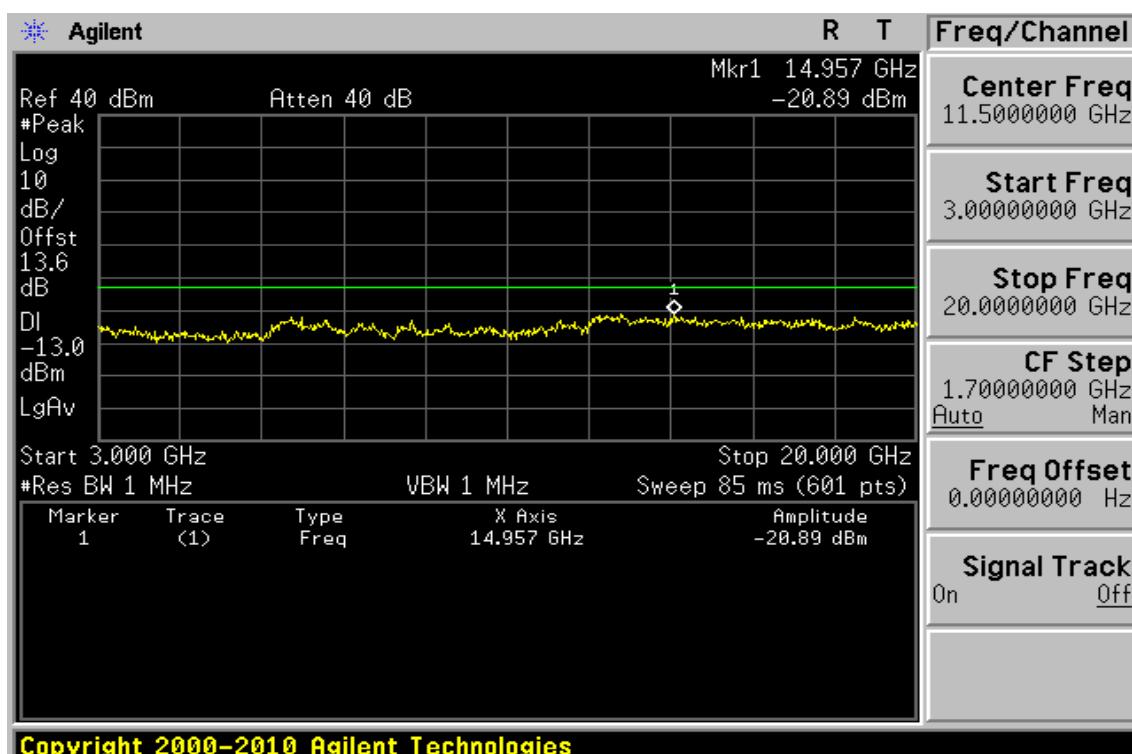
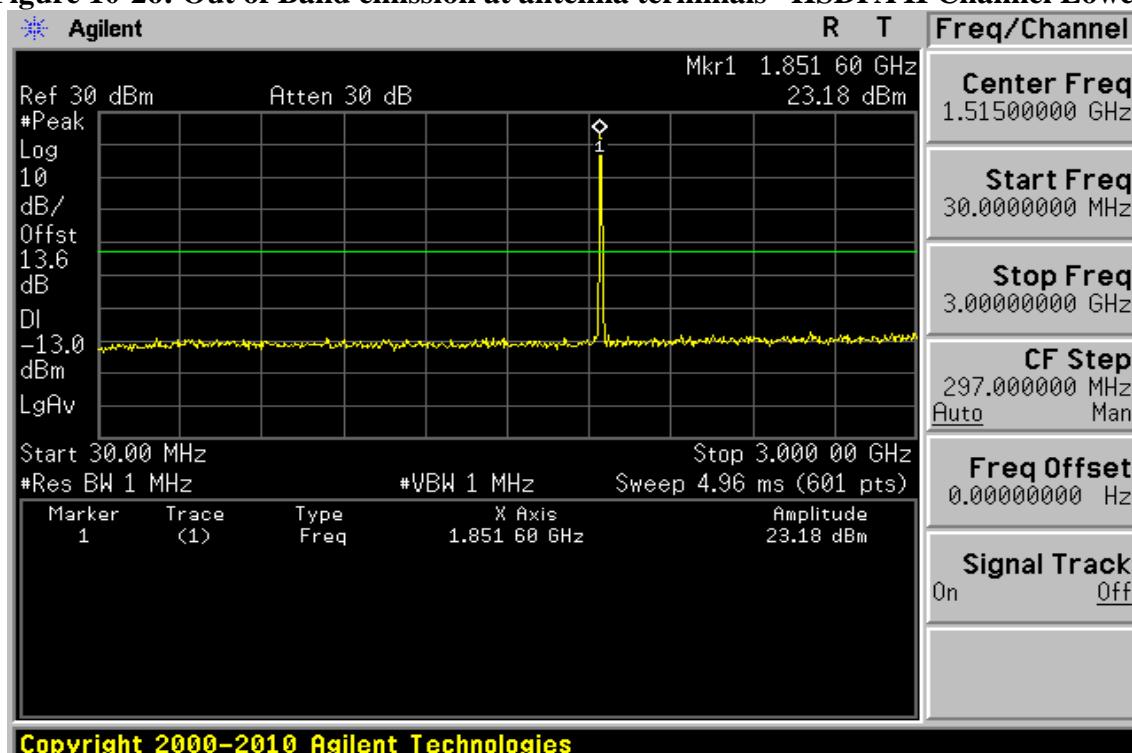


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Figure 10-26: Out of Band emission at antenna terminals—HSDPA II Channel Lowest

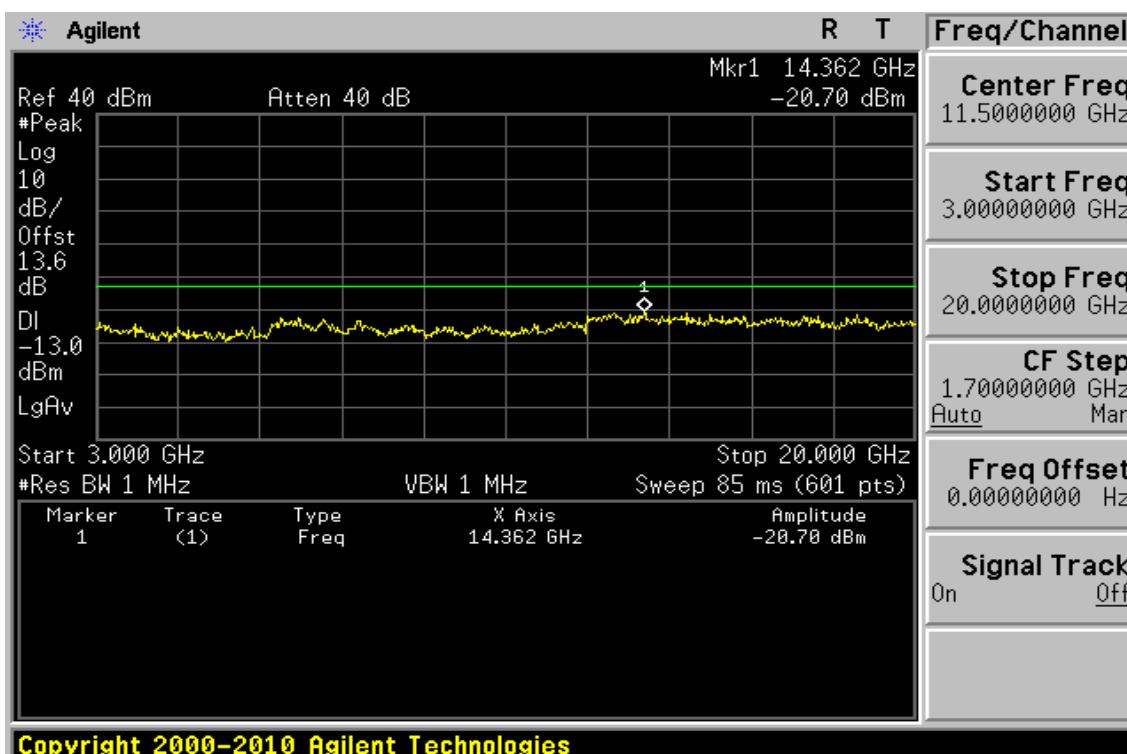
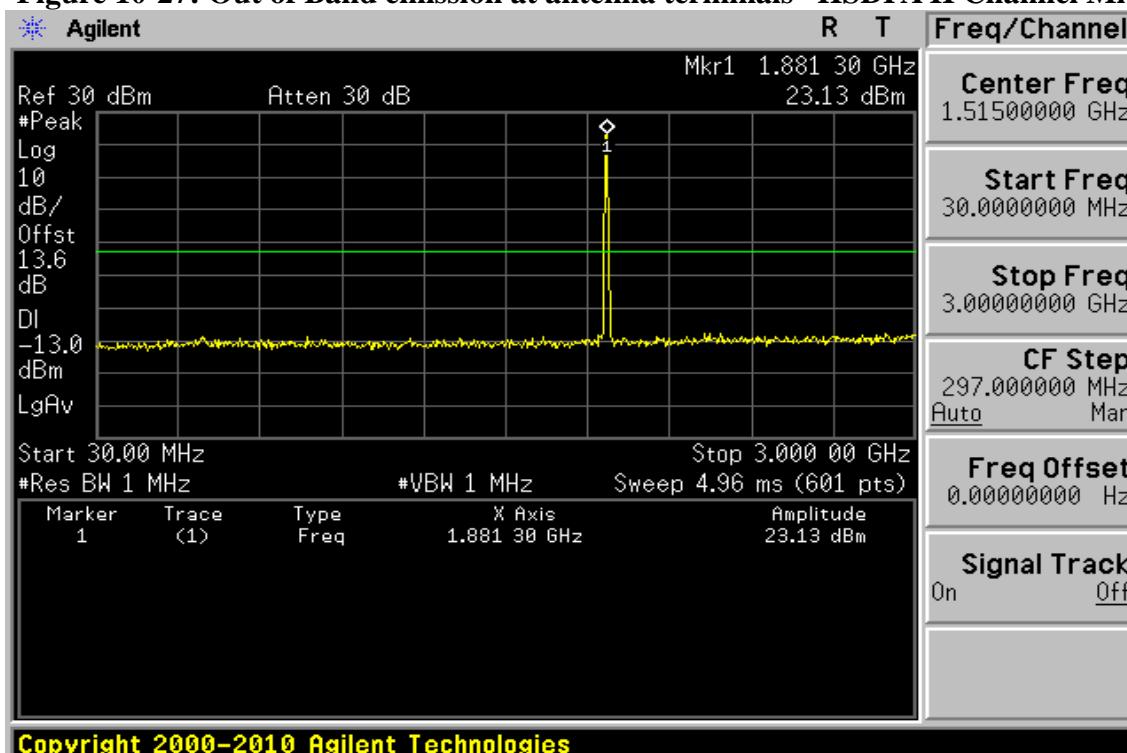


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Figure 10-27: Out of Band emission at antenna terminals -HSDPA II Channel Mid

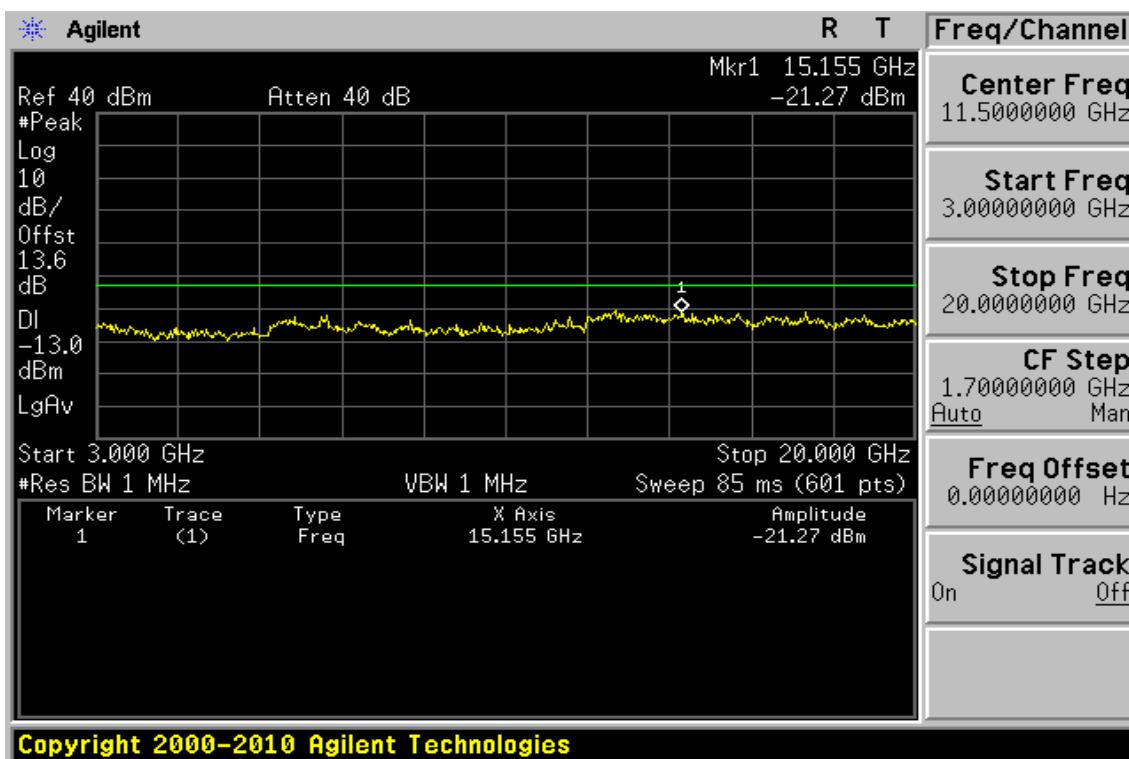
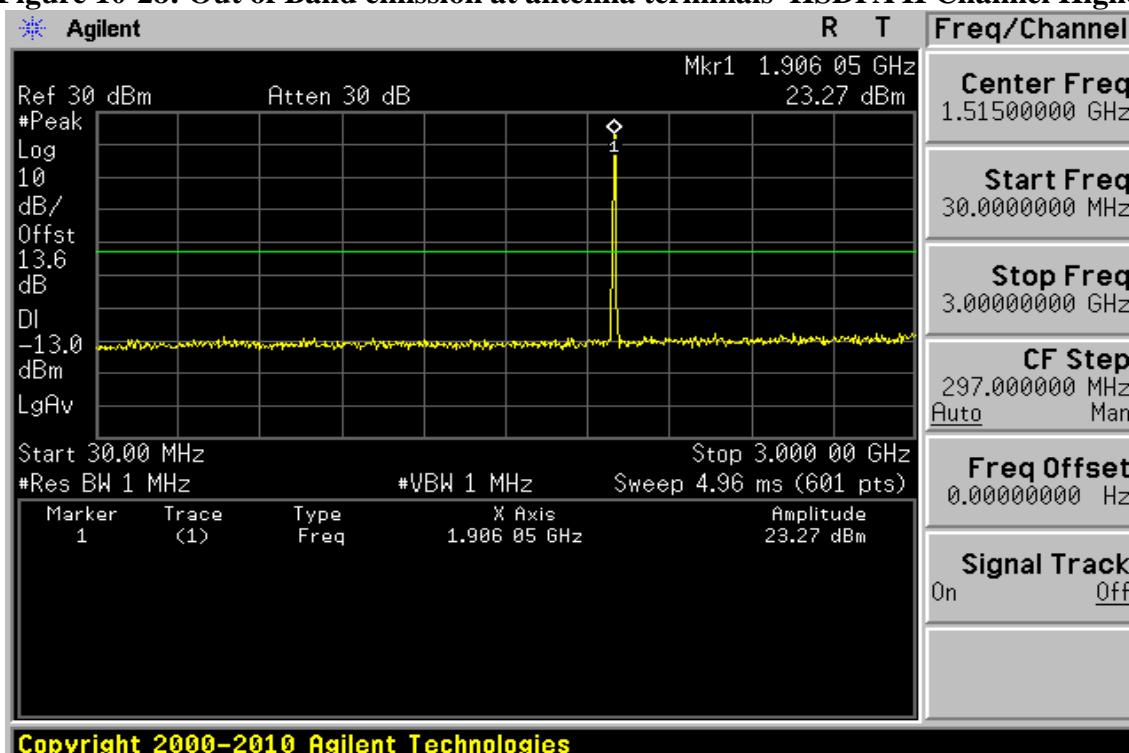


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Figure 10-28: Out of Band emission at antenna terminals—HSDPA II Channel Highest



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Figure 10-29: Bad edge emission at antenna terminals –HSDPA II Channel Lowest

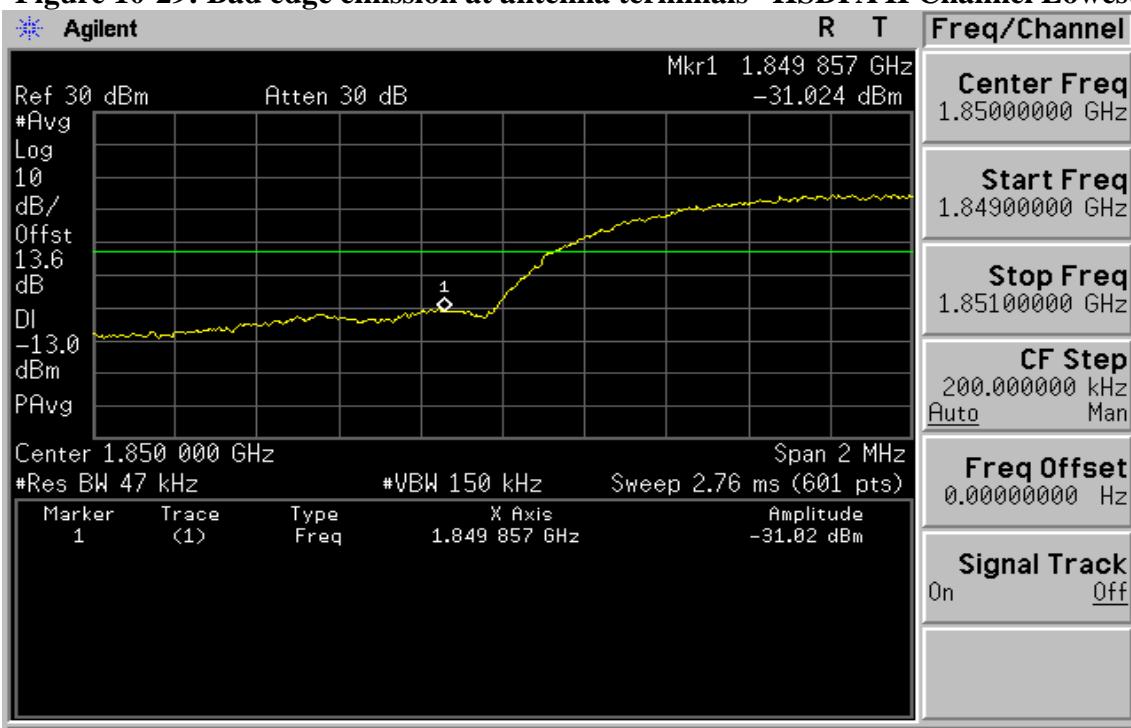
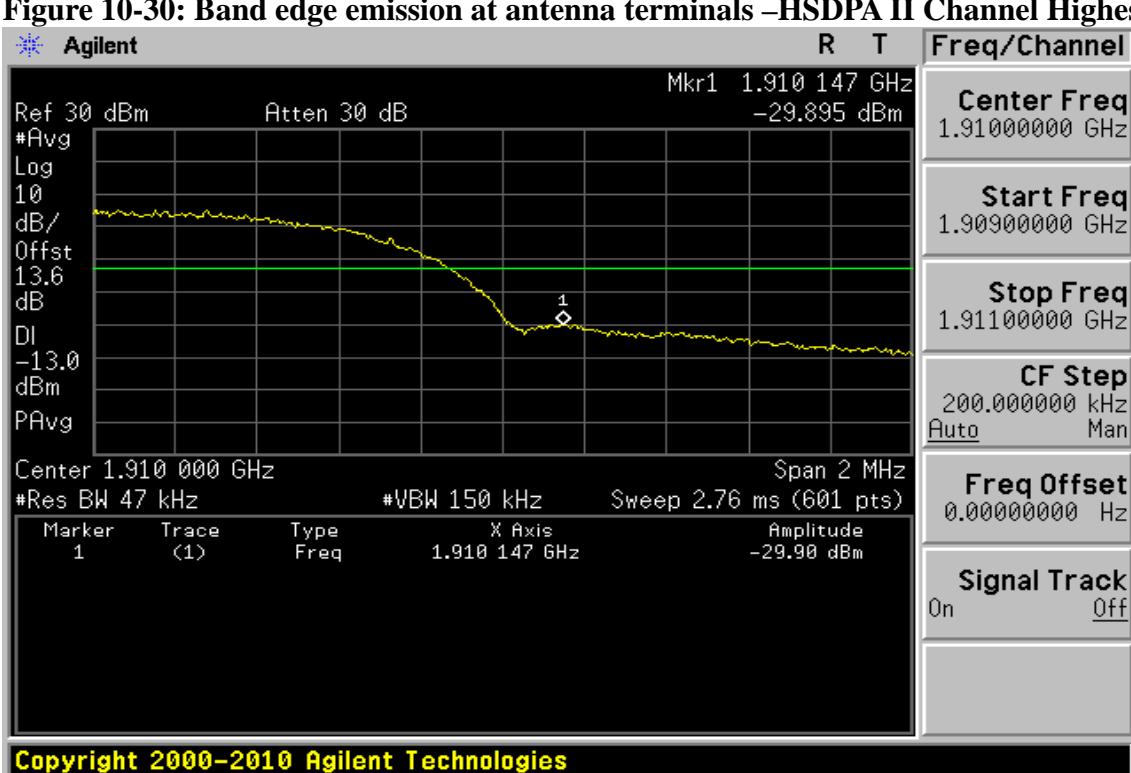


Figure 10-30: Band edge emission at antenna terminals –HSDPA II Channel Highest

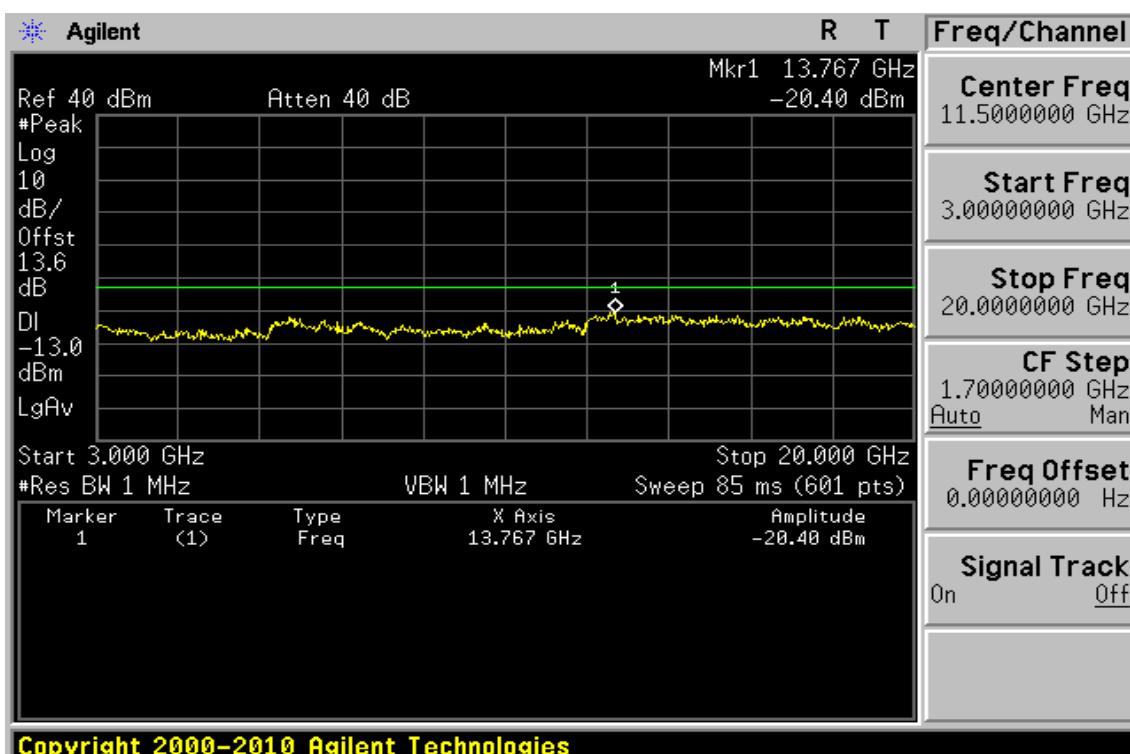
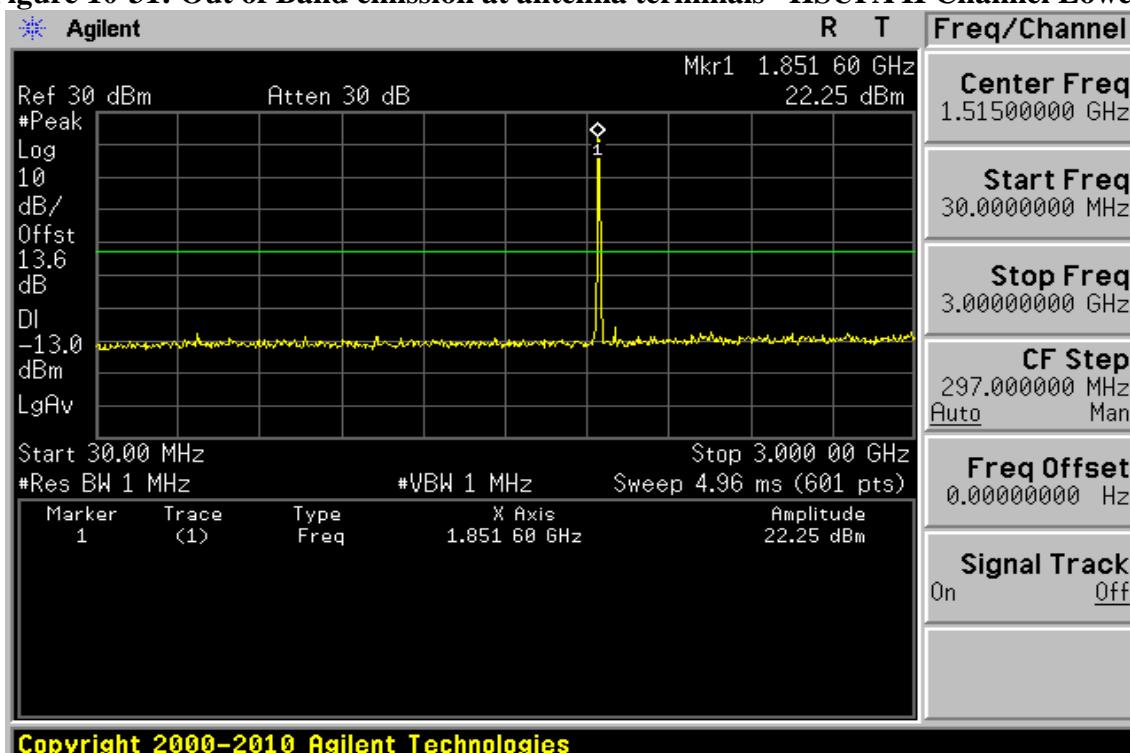


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Figure 10-31: Out of Band emission at antenna terminals—HSUPA II Channel Lowest

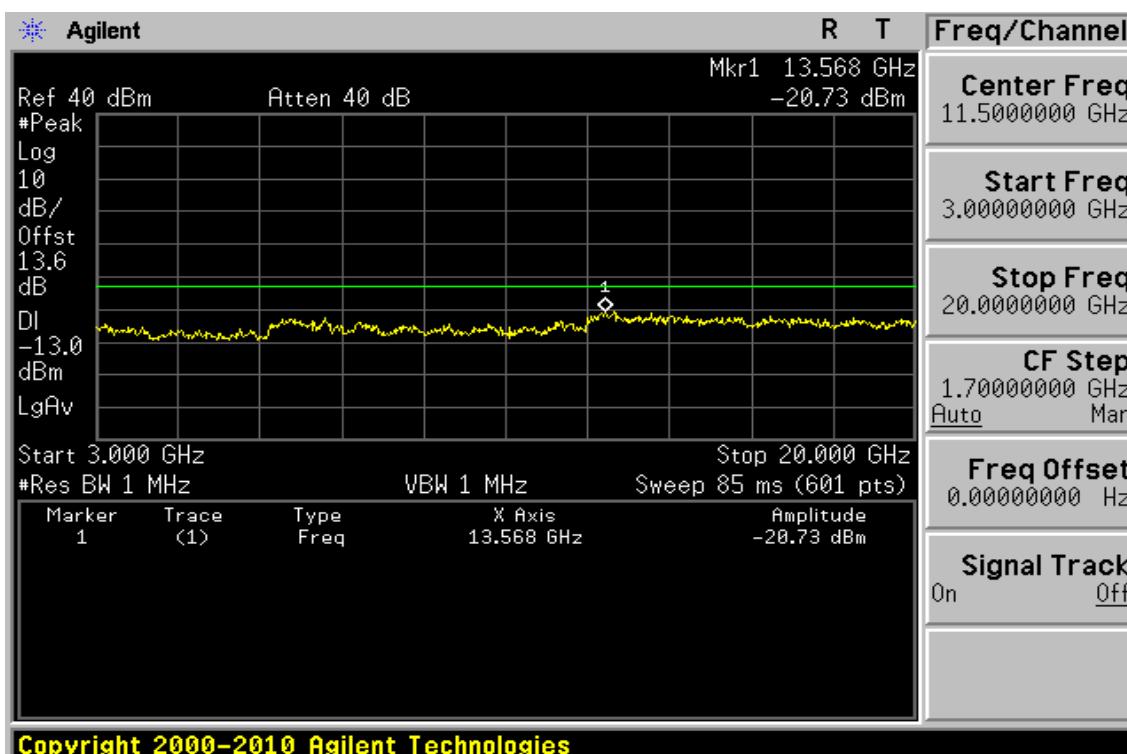
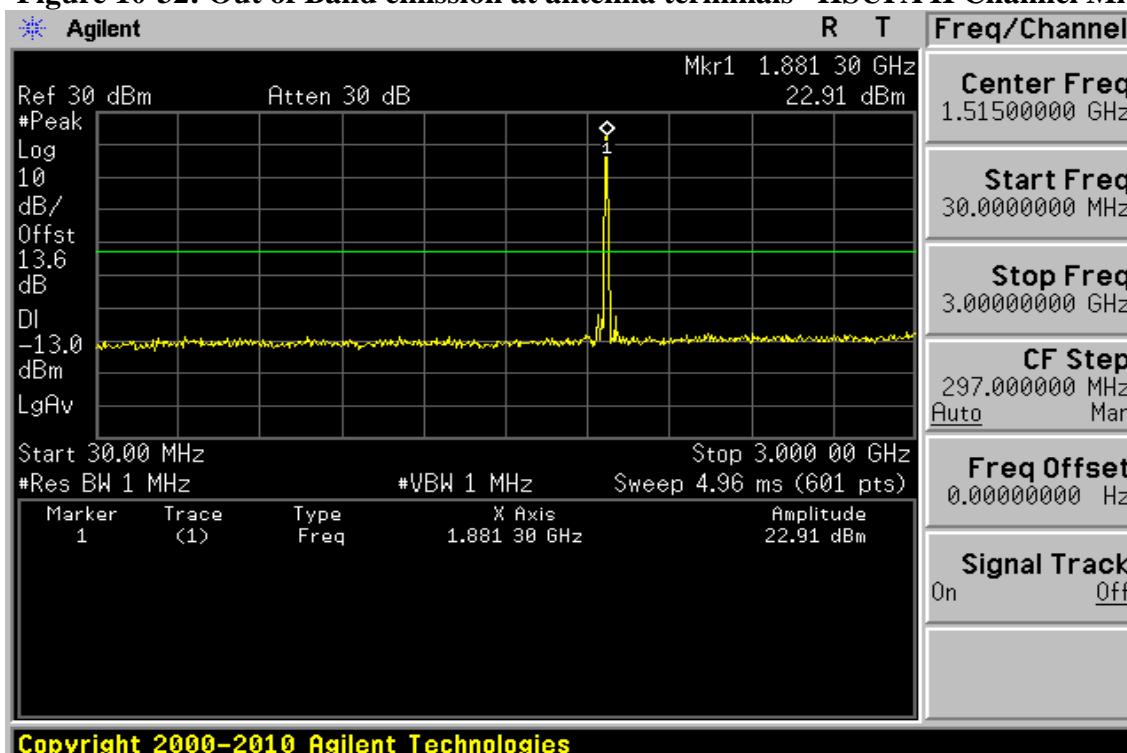


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Figure 10-32: Out of Band emission at antenna terminals -HSUPA II Channel Mid

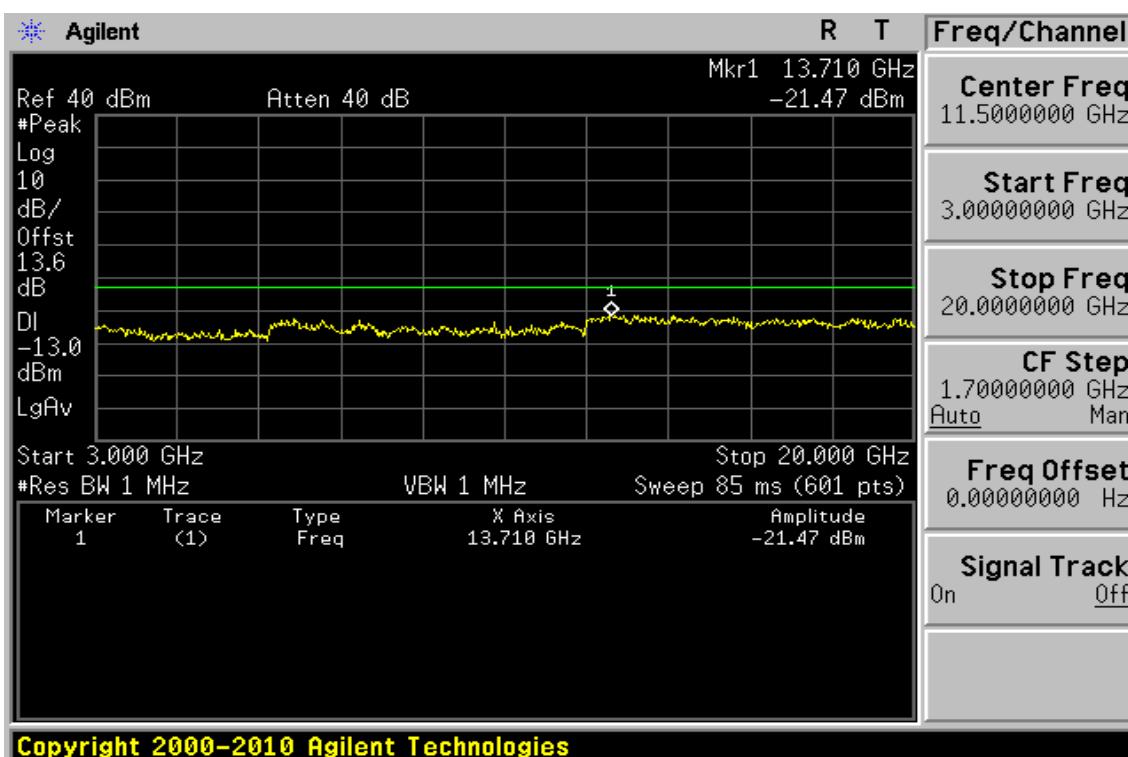
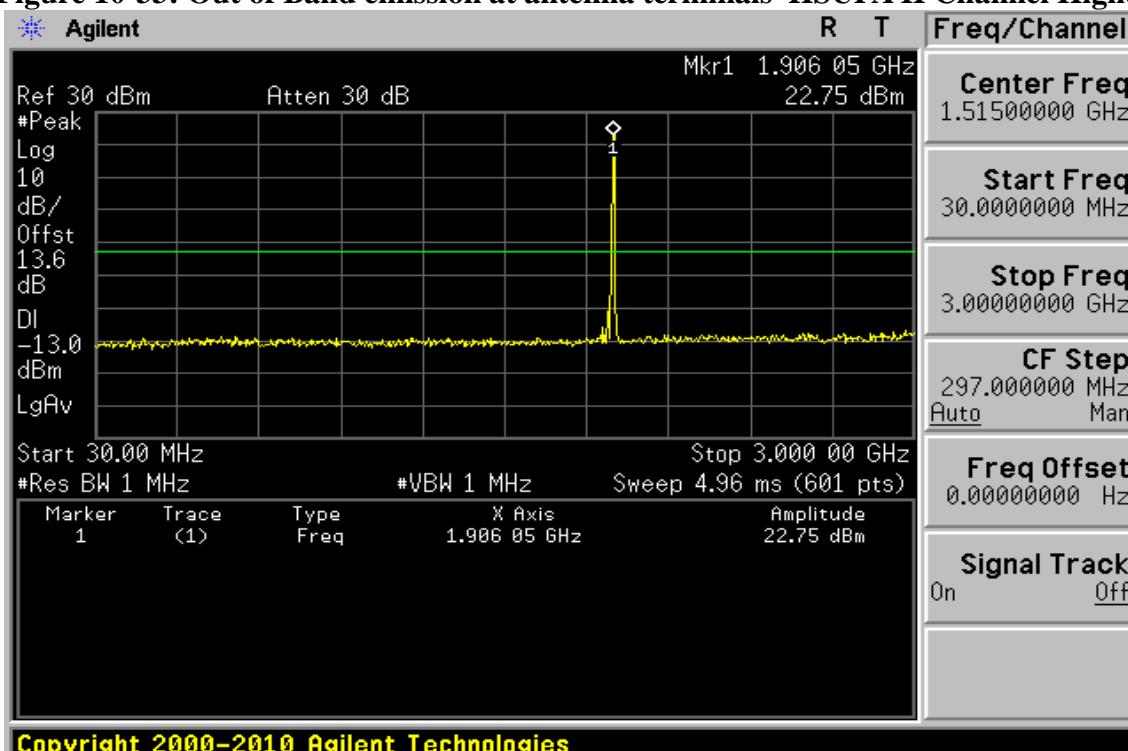


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Figure 10-33: Out of Band emission at antenna terminals—HSUPA II Channel Highest



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Figure 10-34: Bad edge emission at antenna terminals –HSUPA II Channel Lowest

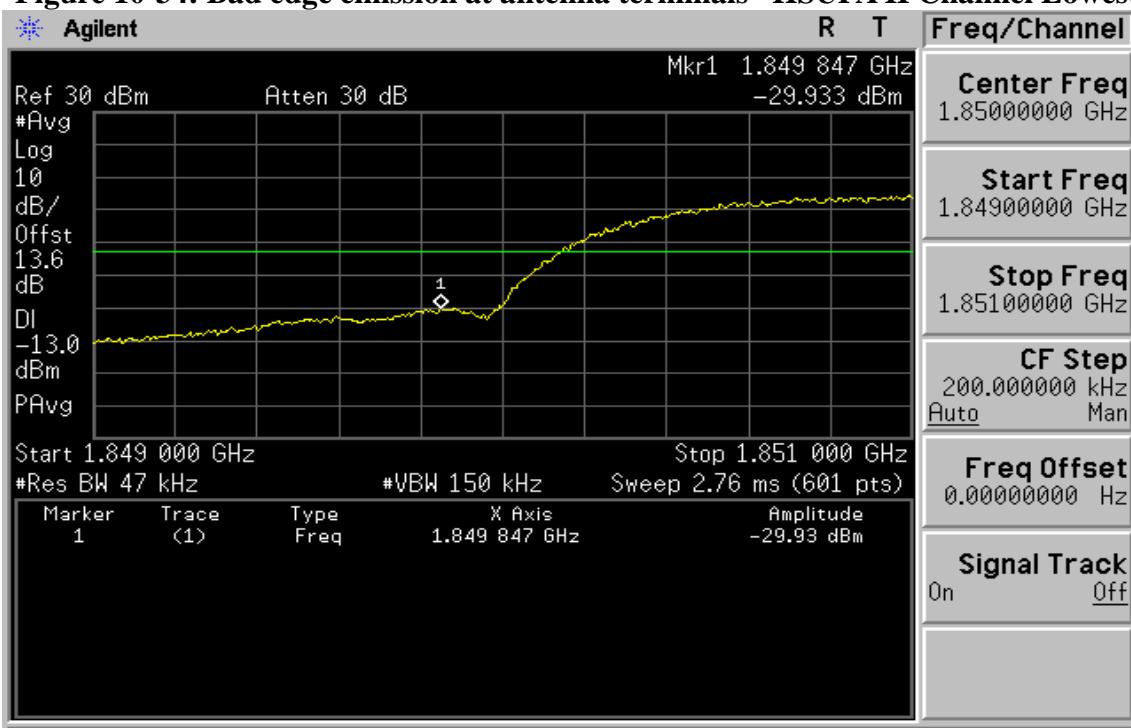
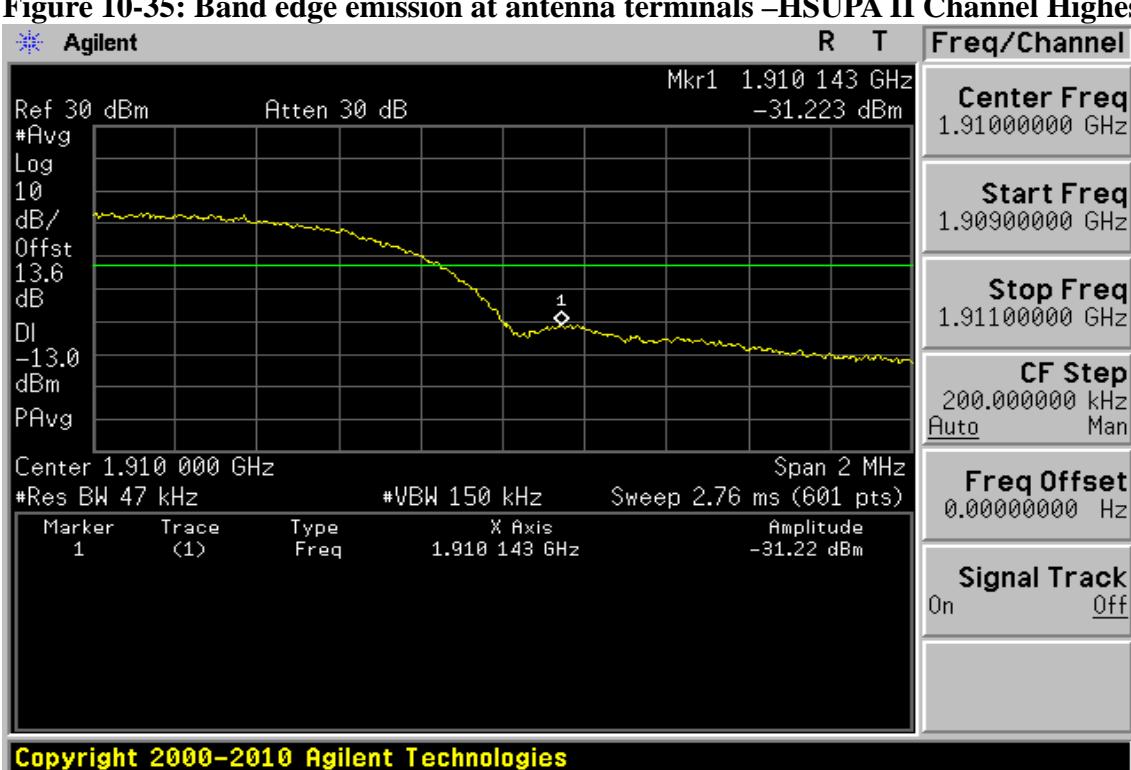


Figure 10-35: Band edge emission at antenna terminals –HSUPA II Channel Highest

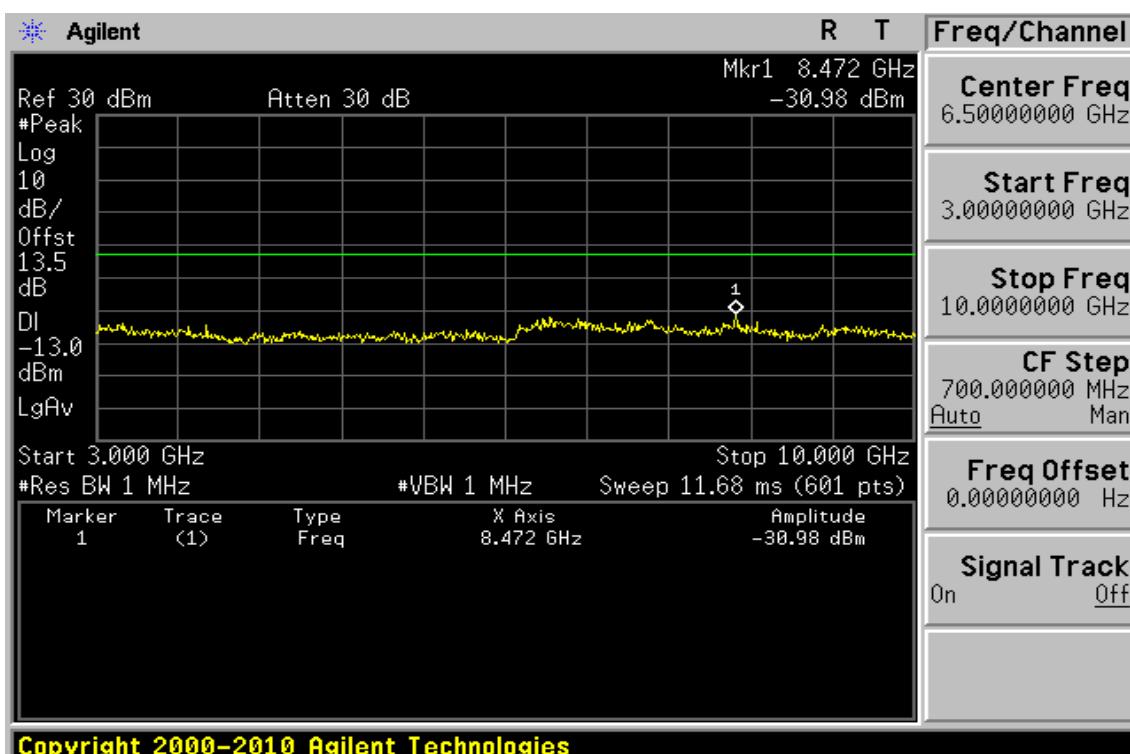
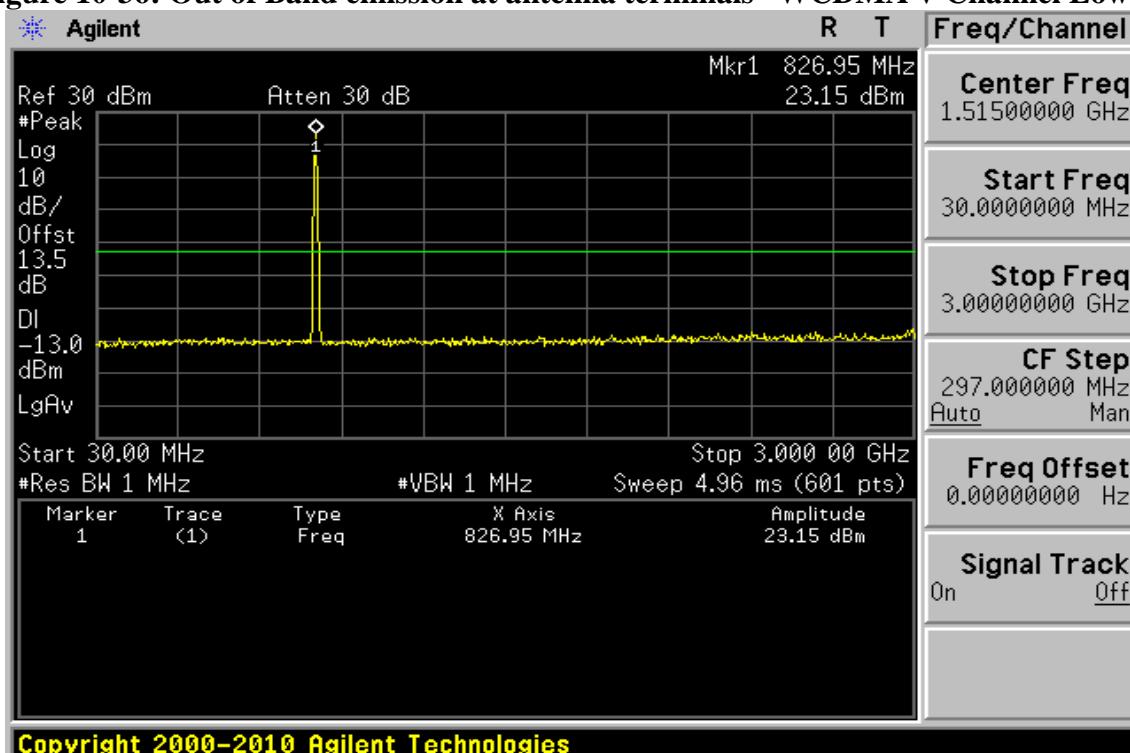


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Figure 10-36: Out of Band emission at antenna terminals—WCDMA V Channel Lowest

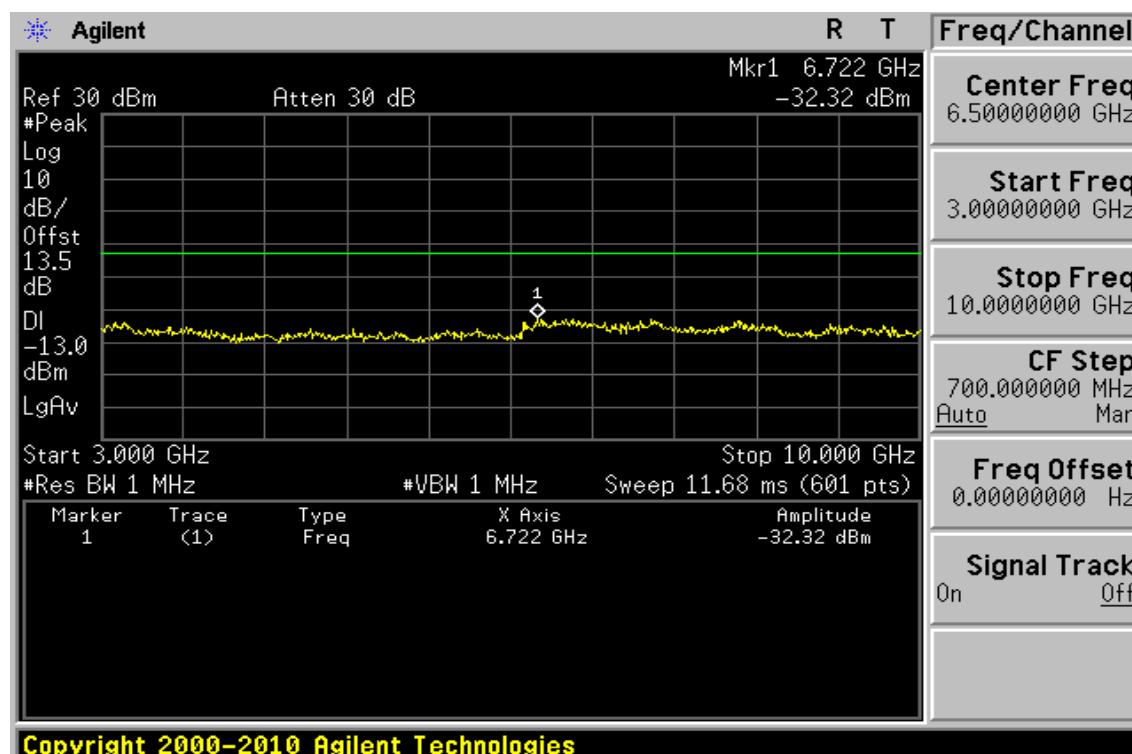
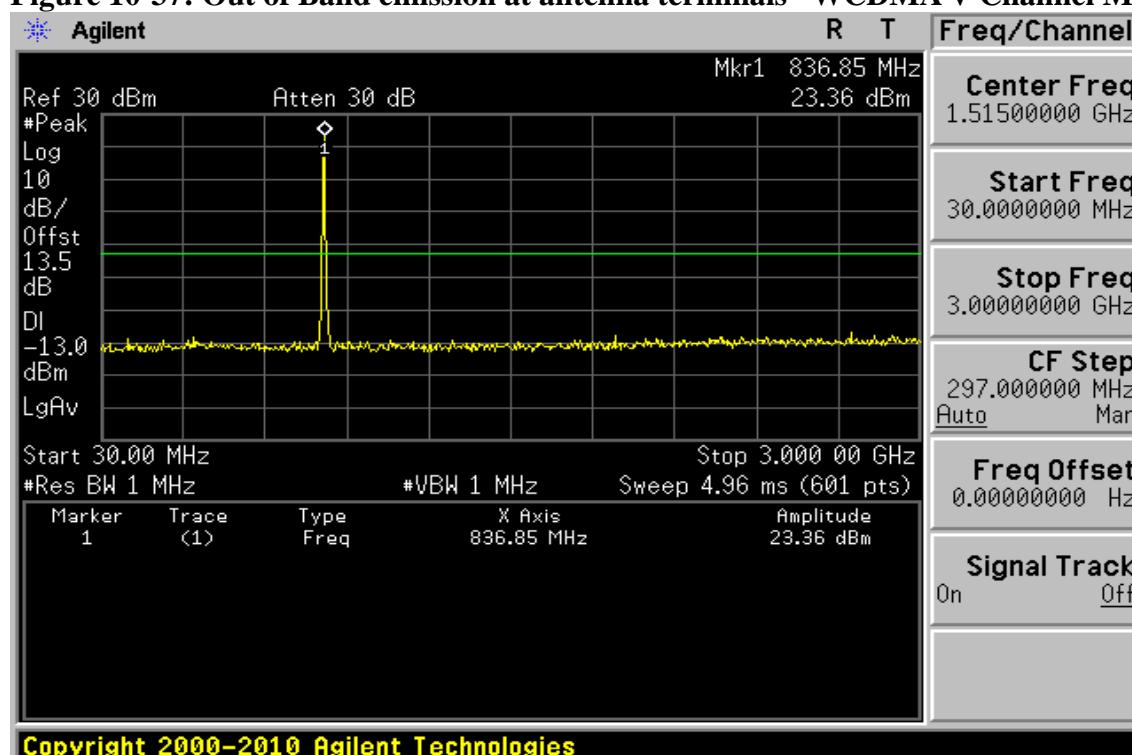


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Figure 10-37: Out of Band emission at antenna terminals –WCDMA V Channel Mid

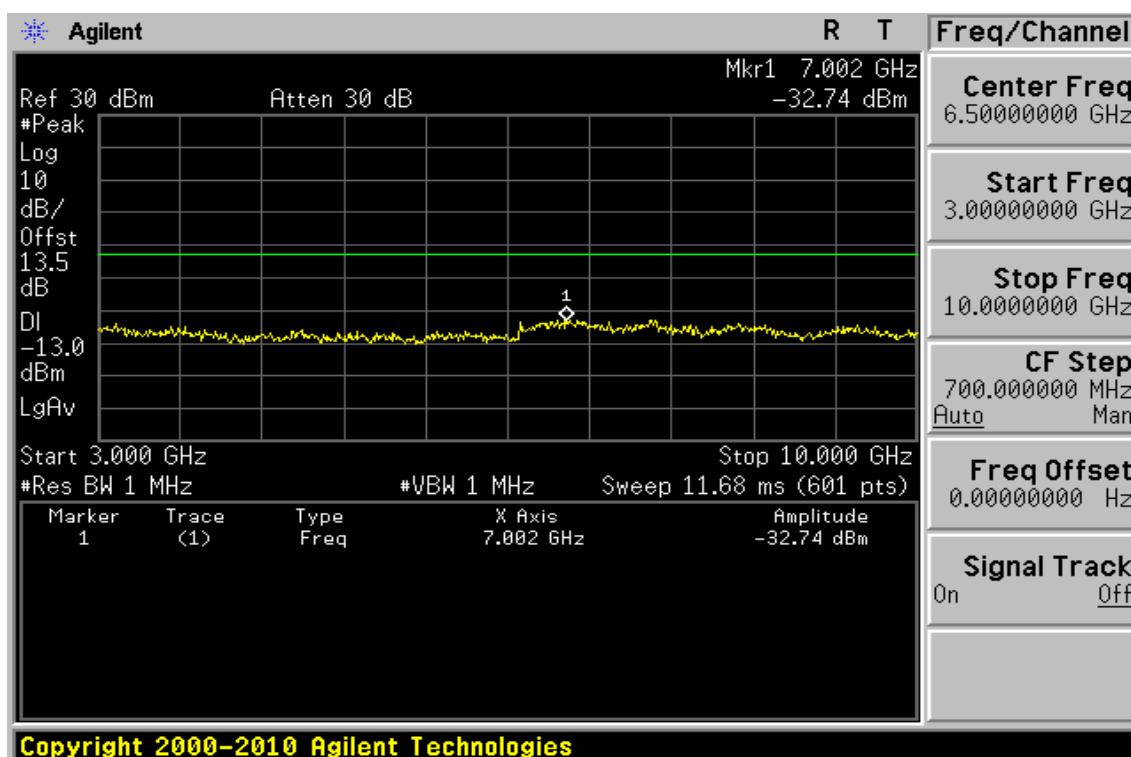
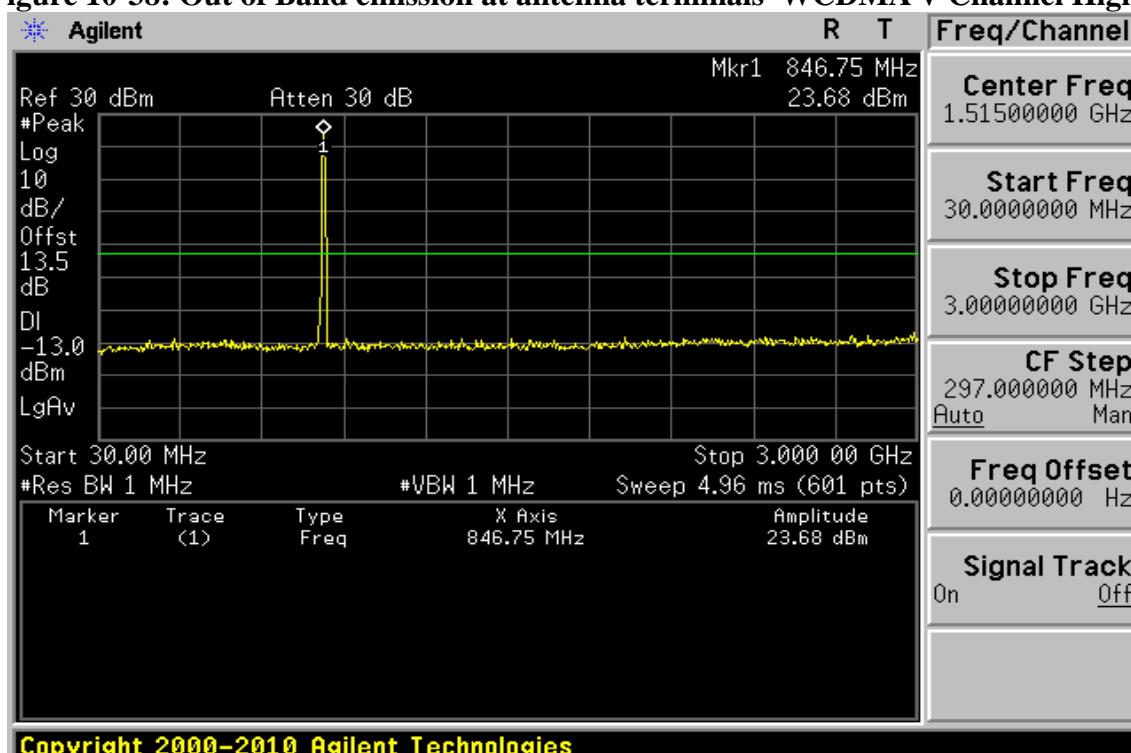


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Figure 10-38: Out of Band emission at antenna terminals—WCDMA V Channel Highest



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Figure 10-39: Bad edge emission at antenna terminals –WCDMA V Channel Lowest

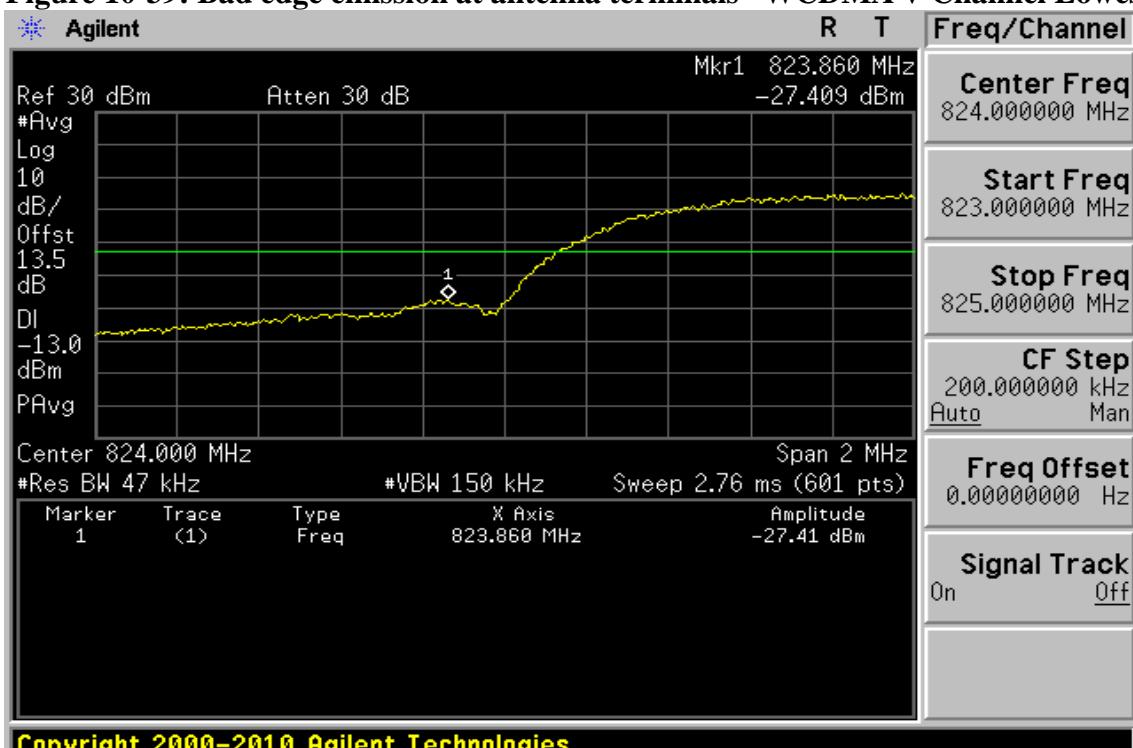
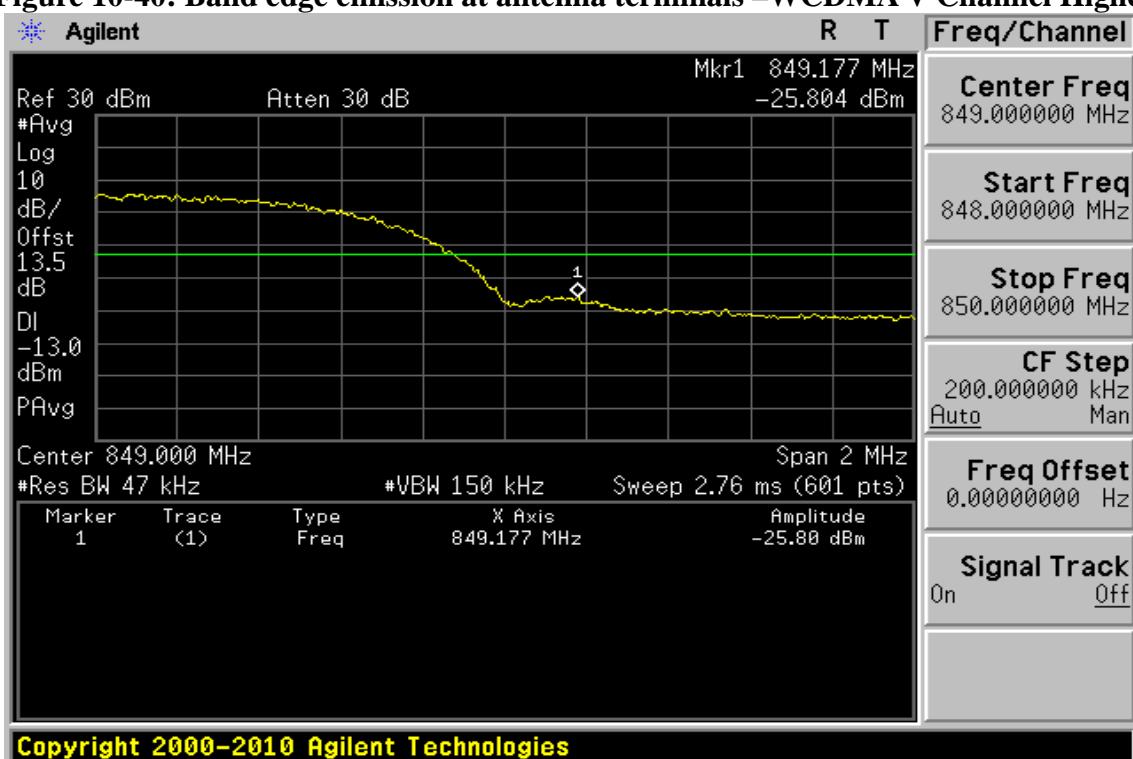


Figure 10-40: Band edge emission at antenna terminals –WCDMA V Channel Highest

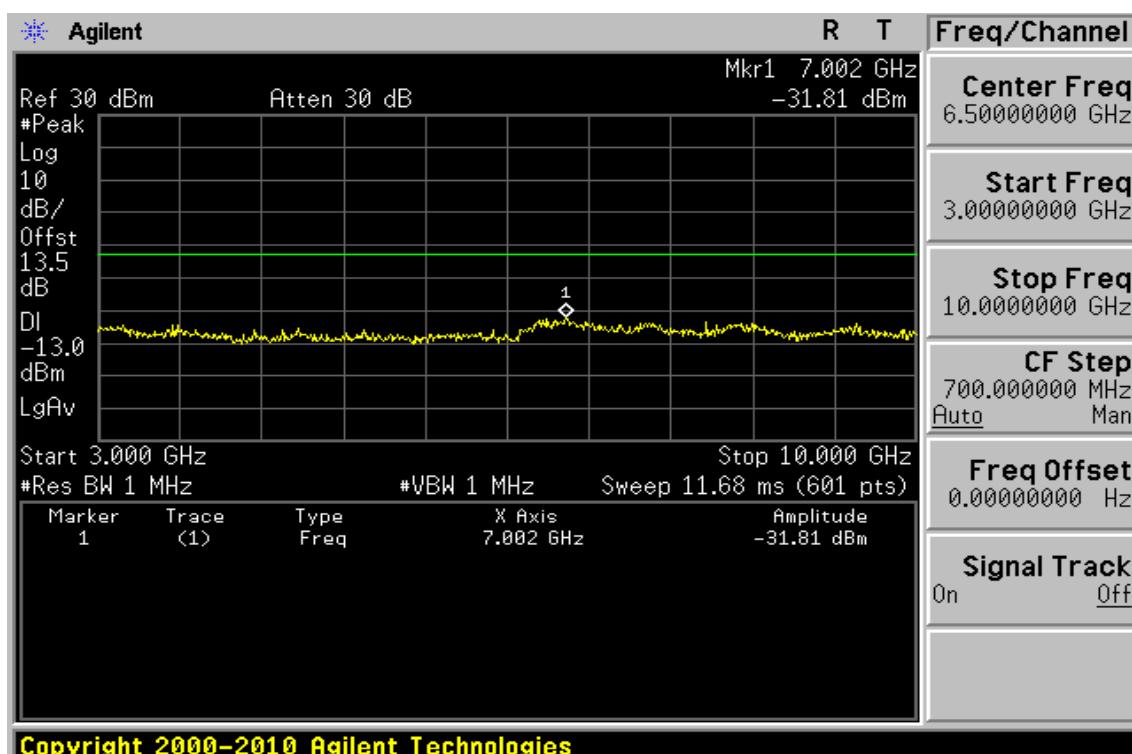
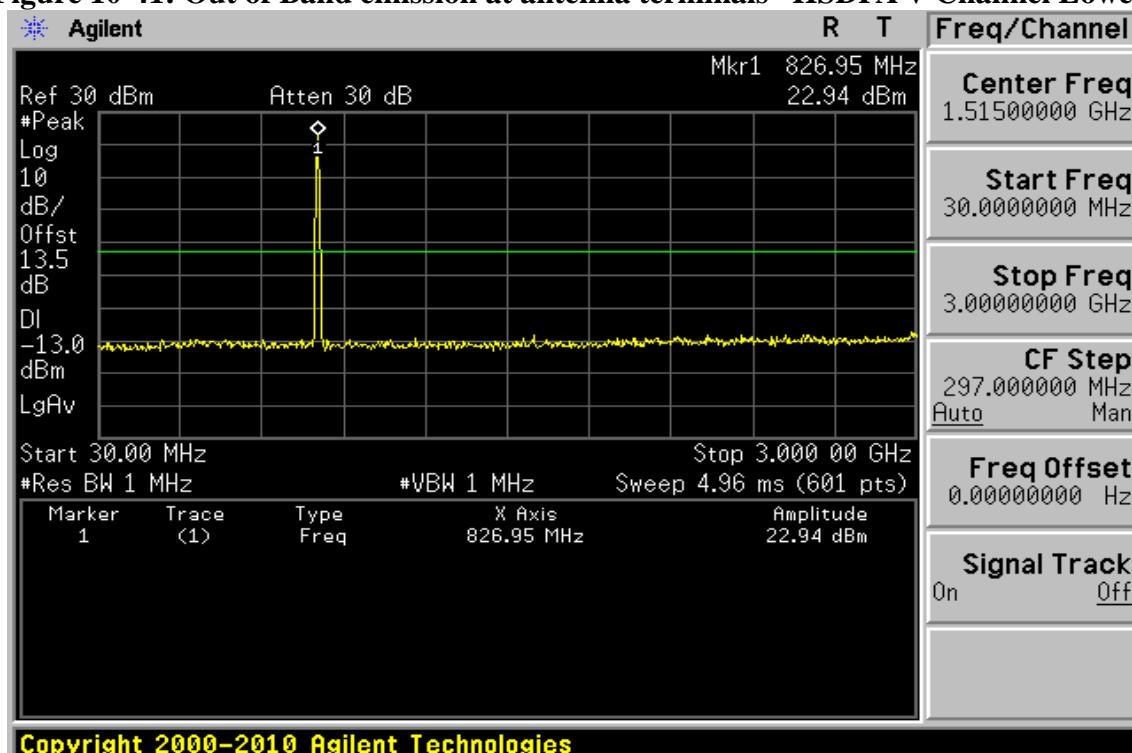


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Figure 10-41: Out of Band emission at antenna terminals—HSDPA V Channel Lowest

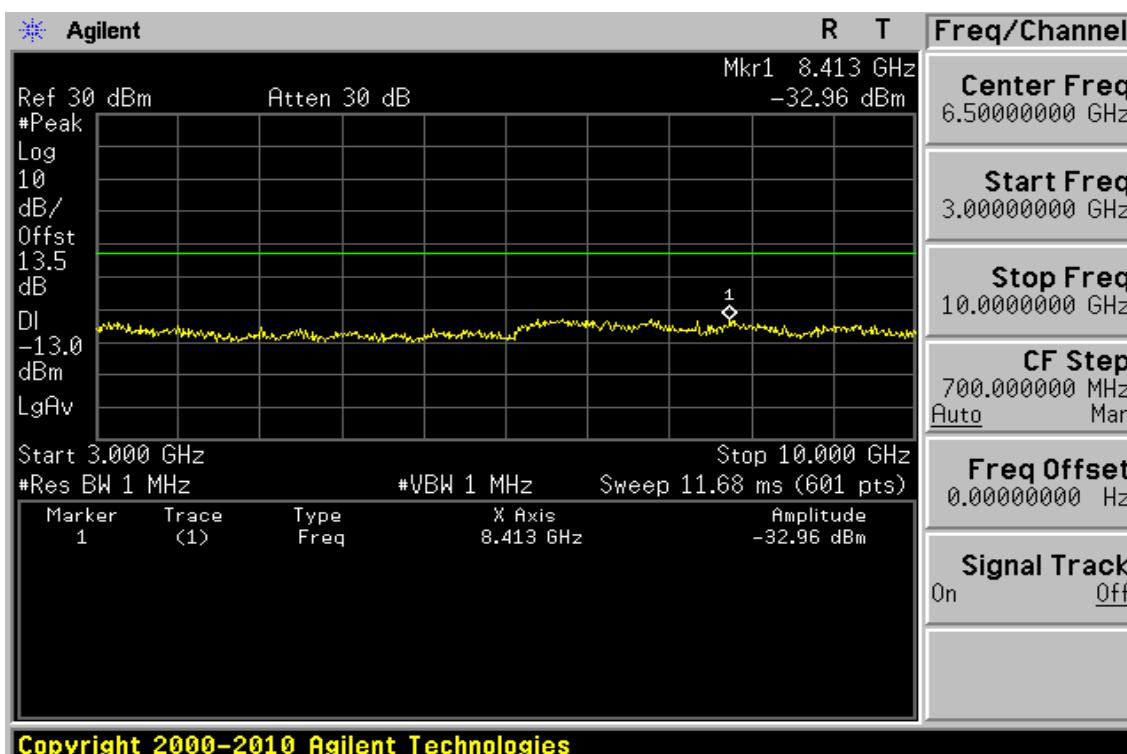
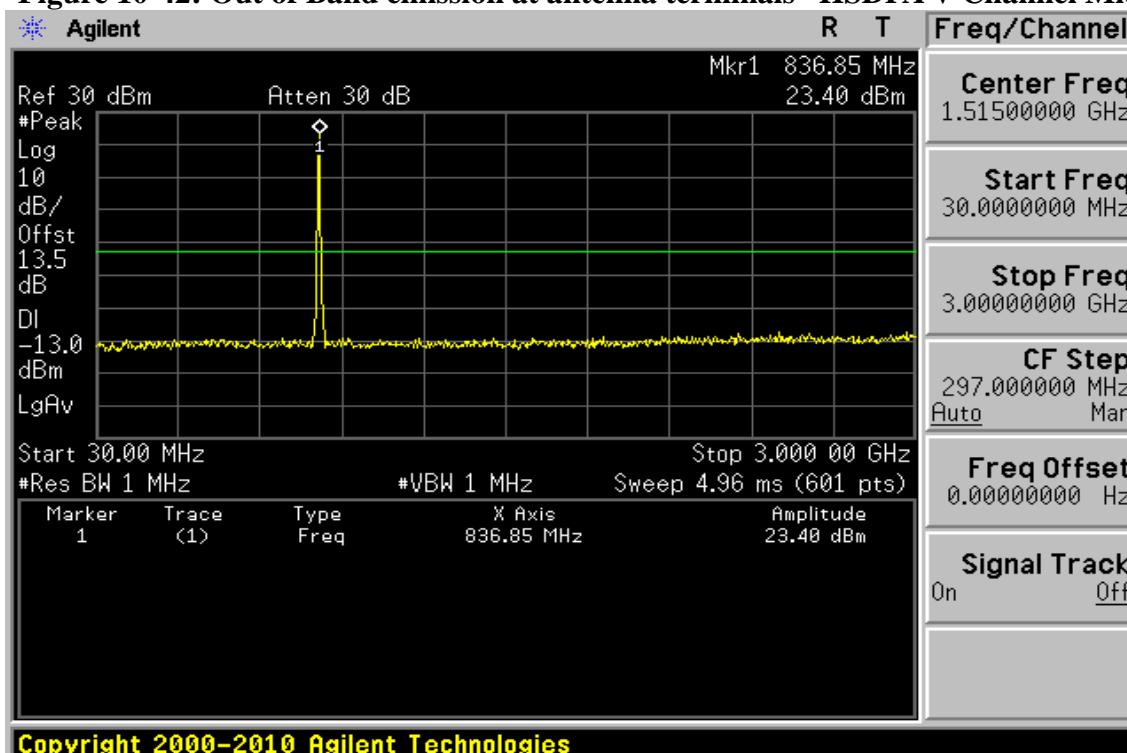


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Figure 10-42: Out of Band emission at antenna terminals –HSDPA V Channel Mid

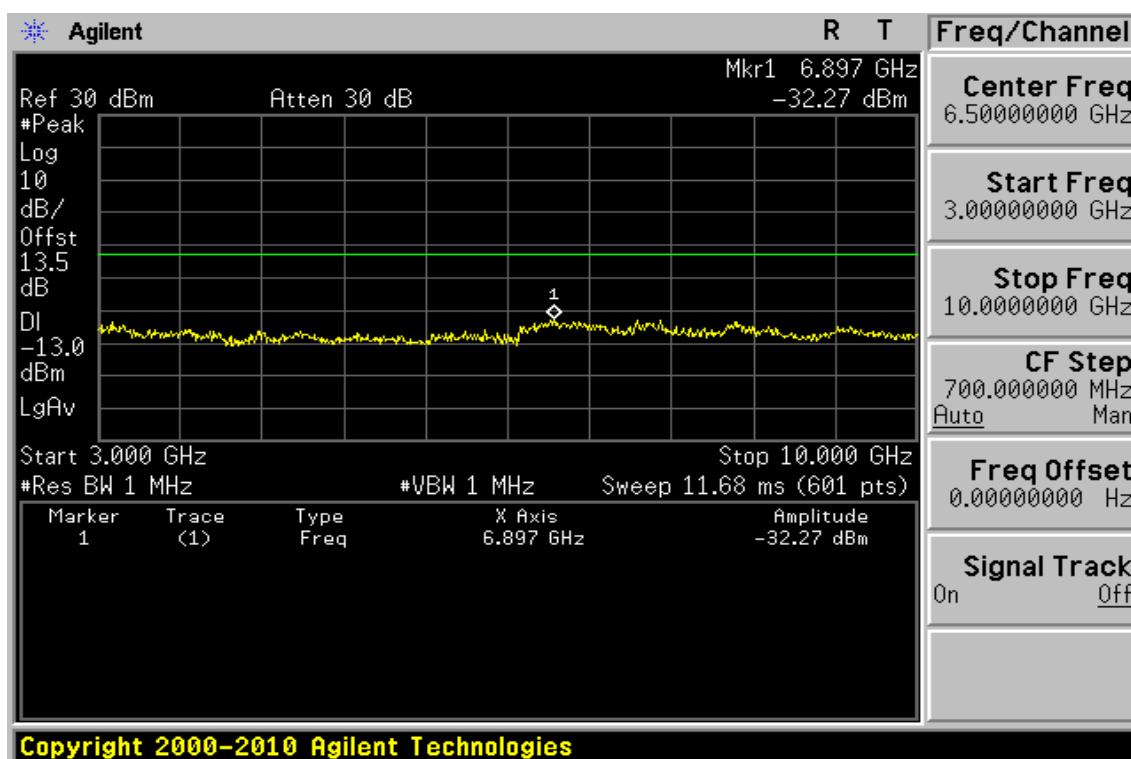
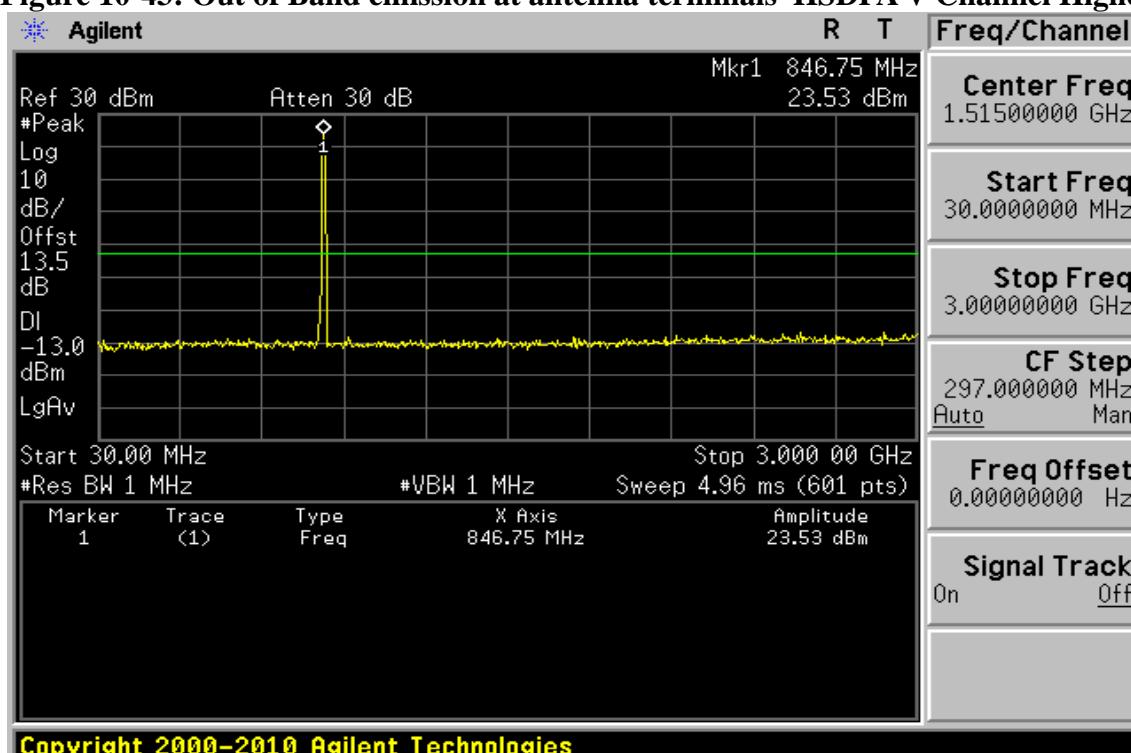


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Figure 10-43: Out of Band emission at antenna terminals—HSDPA V Channel Highest



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Figure 10-44: Bad edge emission at antenna terminals –HSDPA V Channel Lowest

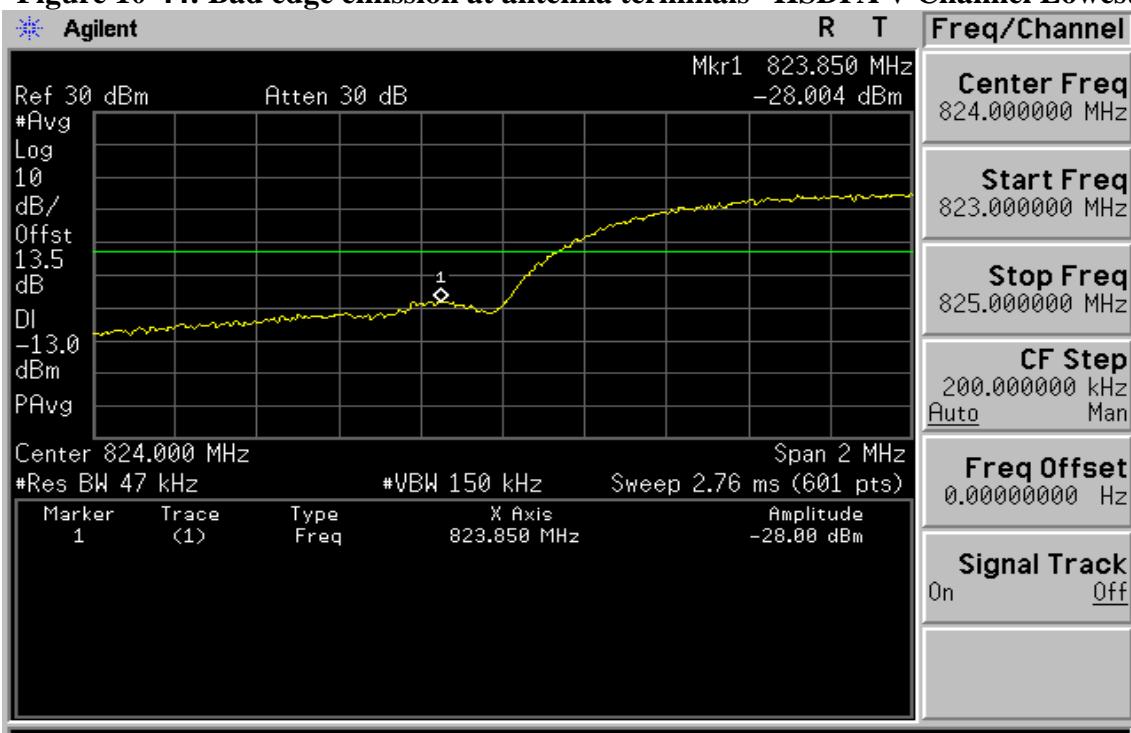
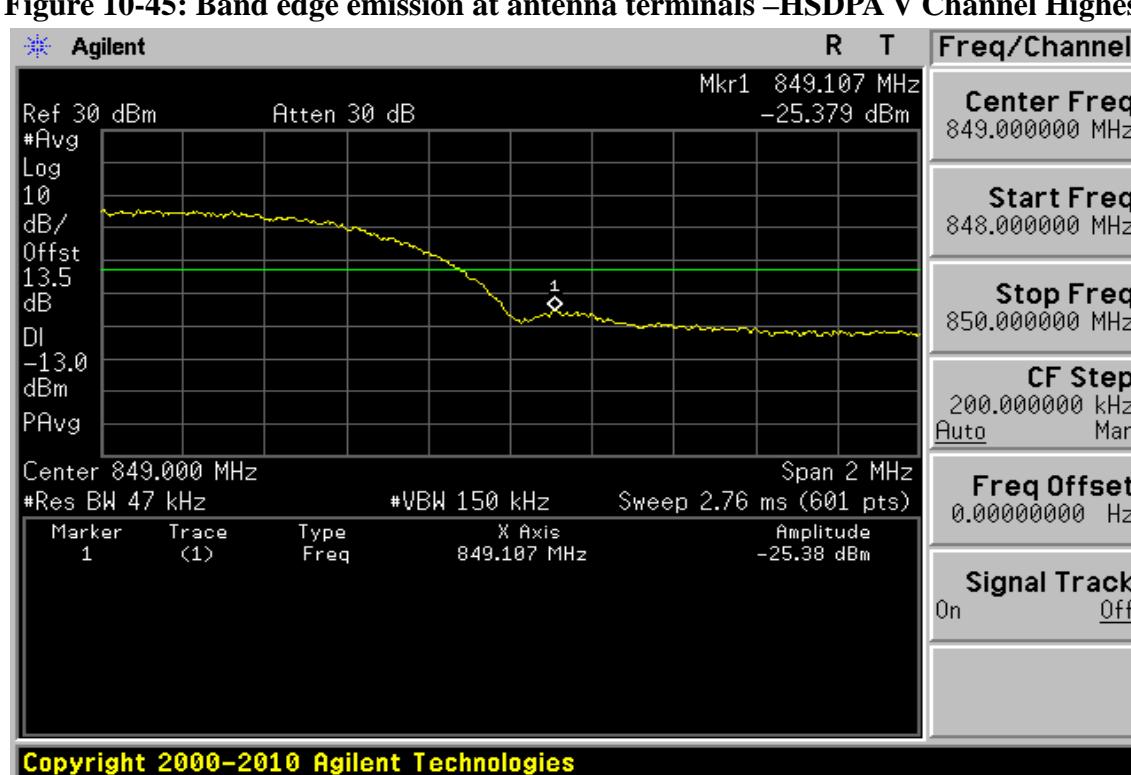


Figure 10-45: Band edge emission at antenna terminals –HSDPA V Channel Highest

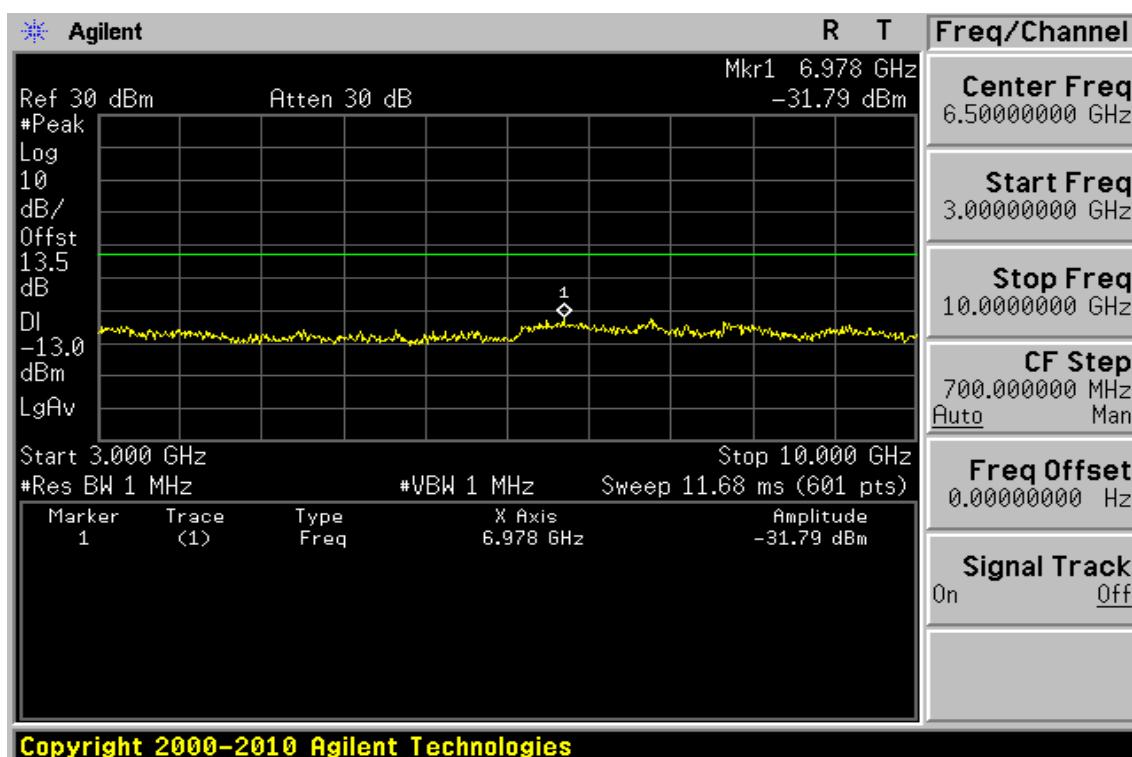
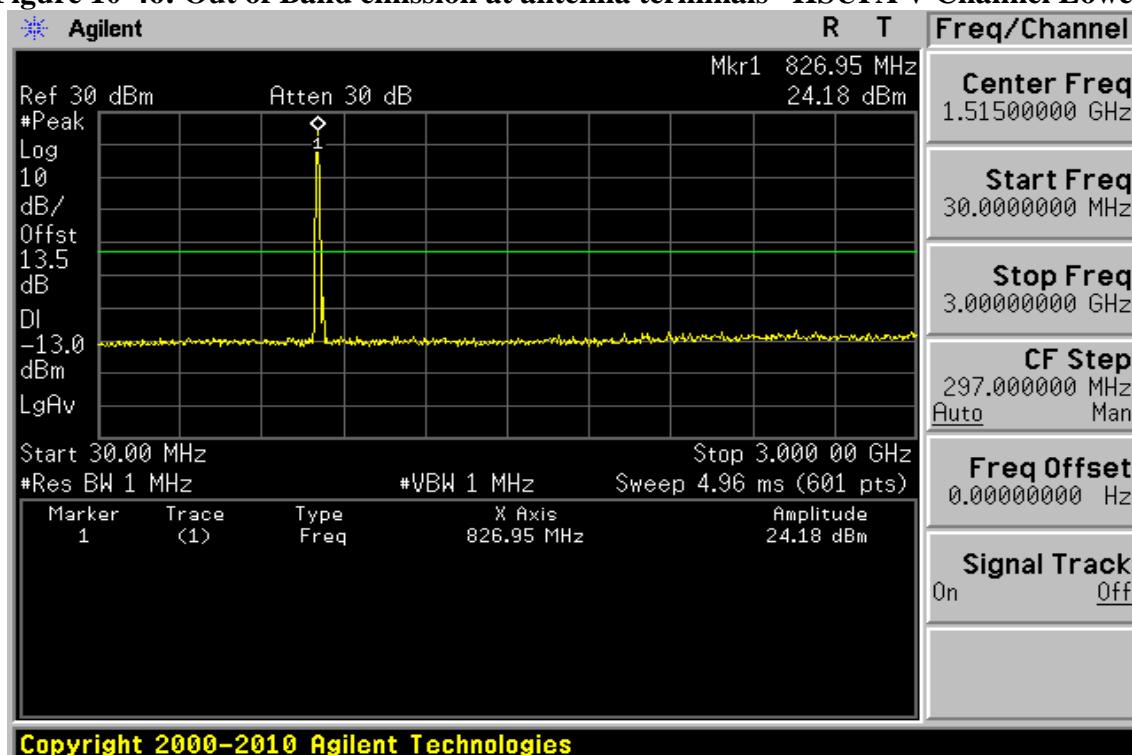


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Figure 10-46: Out of Band emission at antenna terminals— HSUPA V Channel Lowest

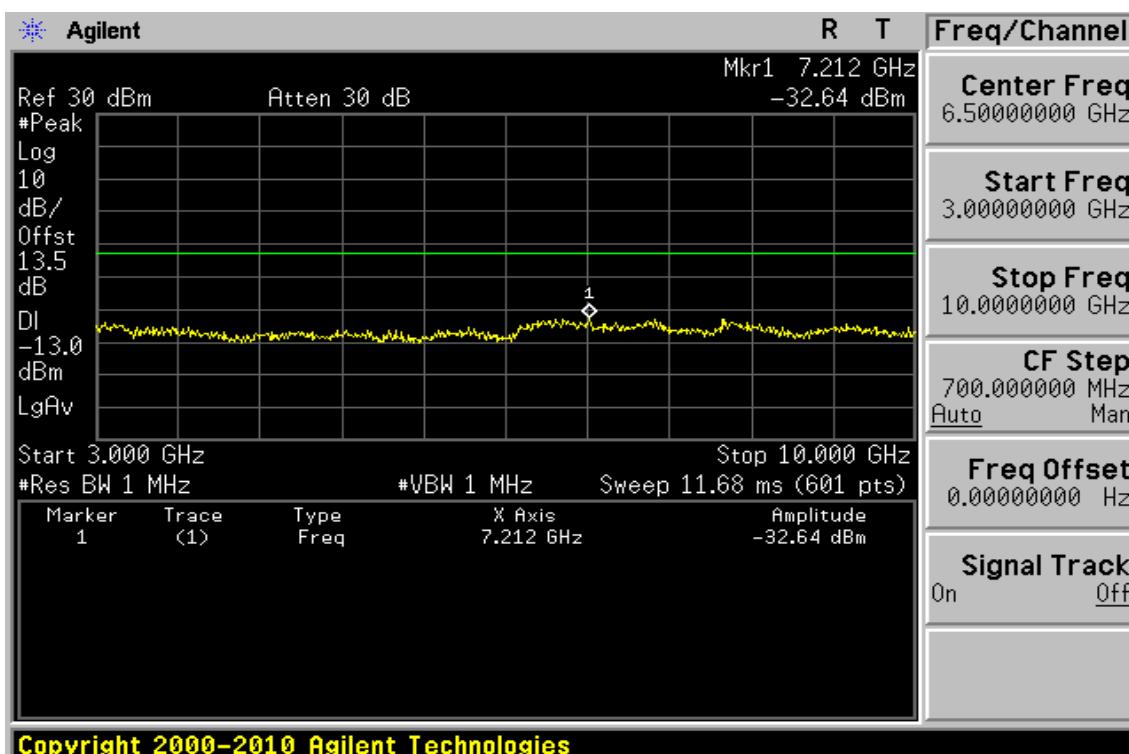
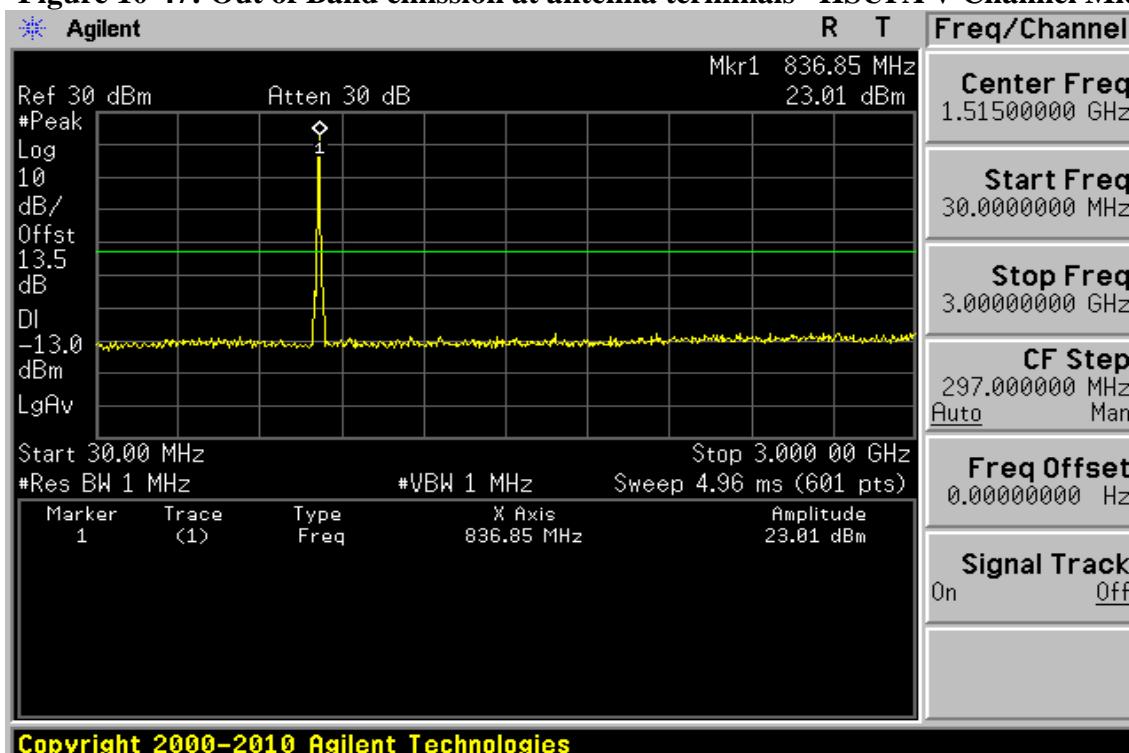


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Figure 10-47: Out of Band emission at antenna terminals –HSUPA V Channel Mid

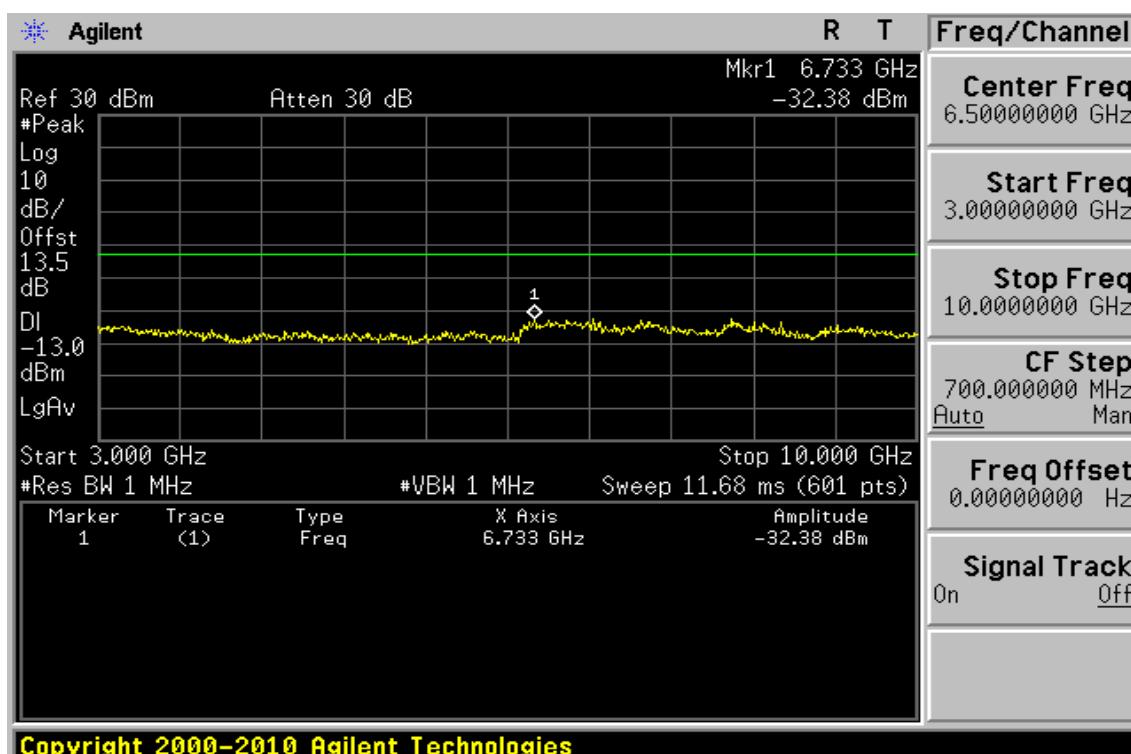
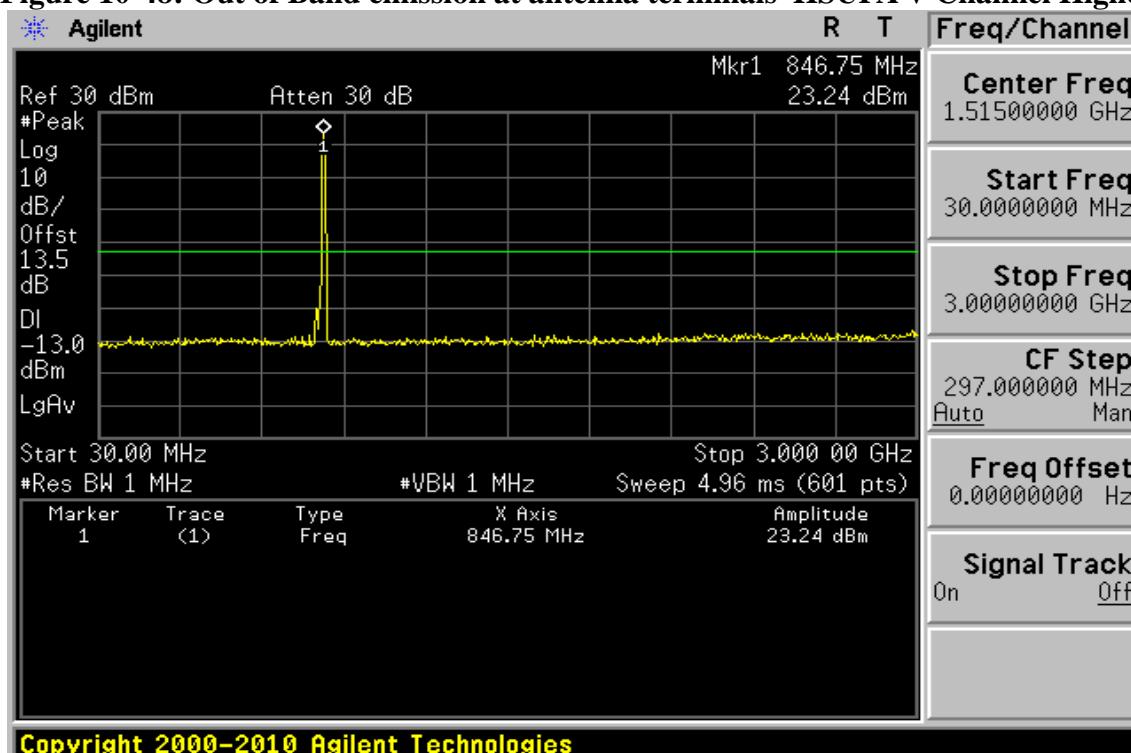


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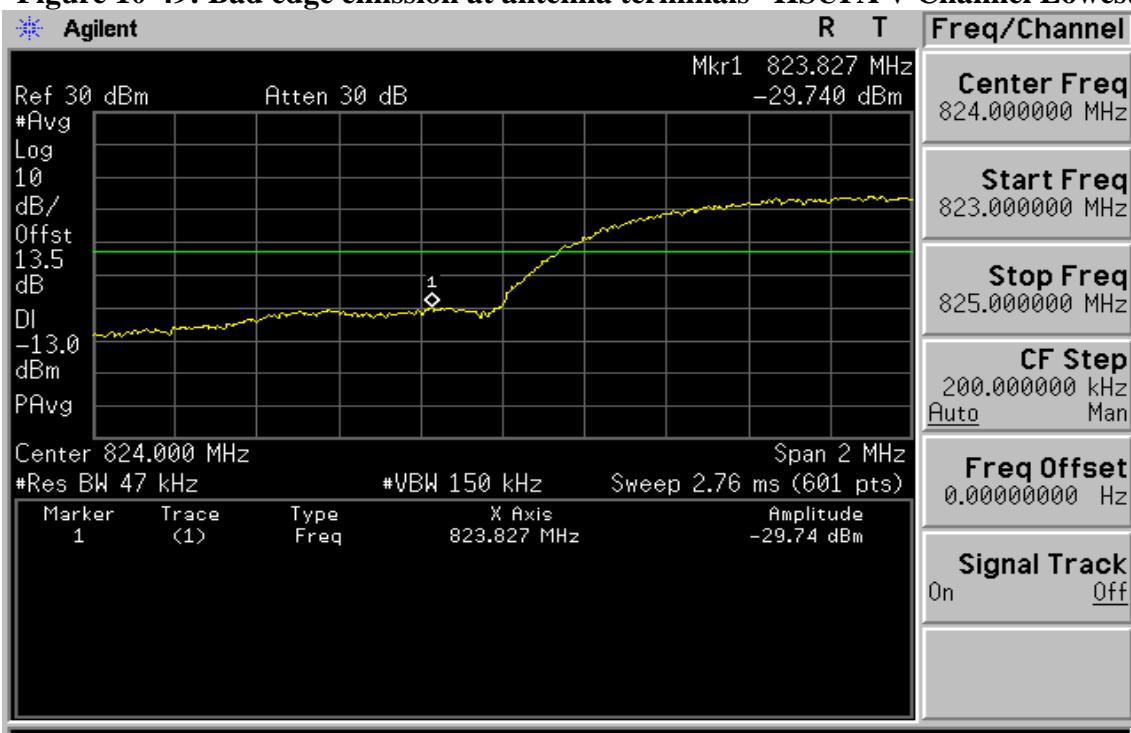
Figure 10-48: Out of Band emission at antenna terminals—HSUPA V Channel Highest



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Figure 10-49: Bad edge emission at antenna terminals –HSUPA V Channel Lowest

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Figure 10-50: Band edge emission at antenna terminals –HSUPA V Channel Highest

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